



LM-79-08 Test Report

For

ELEC-TECH INTERNATIONAL CO LTD

No.1 Jinfeng Road, Tangjiawan Town, Xiangzhou District, Zhuhai City, Guangdong Province, P.R. China 519085

Inseparable SSL Luminaire

Model name(s):

546775XX

546774XX

Representative (Tested) Model: 54677441

Model Difference: All model is identical to each other, except model name designed. XX=41-50 intends CCT is 4000K.

Prepare By:

Loba

Engineer: Leo Liu Date: 2017-06-22

Review By:

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Technical Lead: Vincent Yuan Date: 2017-06-22

Note: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Laboratory: Dongguan New Testing Centre Co., Ltd Page 1/11 Address: 3F, No. 1 the 1st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China Tel: 86-755-2344 3526 Website: http://www.ntc-cert.com



R NVLAP LAB CODE 600150-0

Touuet mitor mation:	
Client Name:	ELEC-TECH INTERNATIONAL CO LTD
Brand Name:	ETI, Commercial Electric
Model Number:	546774XX, 546775XX(XX=41-50)
Product type:	Inseparable SSL Luminaire
Rating Input:	AC120-277V, 60Hz, 57W
Declared CCT:	4000K
Declared Light output:	5200lm
LED Manufacturer:	Samsung
LED Model:	SPMWH1228
LED Quantity:	220 pcs
Forward current of LED Chip:	80 mA
Date of Receipt Samples:	2017-06-18
Quantity of Receipt Samples:	3
Sample Number:	170618003-S1
Laboratory Information:	
Test Laboratory:	Dongguan New Testing Centre Co., Ltd
Laboratory Address:	3F, No. 1 the 1st North Industry Road, Songshan Lake Science &
	Technology Park, Dongguan, Guangdong, China
Laboratory Contact Name:	Neil Zhong
Laboratory Contact E-mail:	Neil_ntc@163.com
<u>Report Information</u>	
Issued Date of Test Report:	2017-06-22
Revised Date of Test Report:	N/A
Test Report No.:	NTCR17060045
Remark (If applicable)	N/A





Test Specifications:	
Date of Test	2017-06-21
Test item	1. Total Luminous Flux
	2. Luminous Distribution Intensity
	3. Luminous Efficacy
	4. Correlated Color Temperature
	5. Color Rendering Index
	6. Chromaticity Coordinate
Reference Standard	IES LM-79-2008 Electrical and Photometric Measurements of Solid-State
	Lighting Products
	ANSI C78.377-2008 Specifications for the Chromaticity of Solid State
	Lighting Products
	CIE 13.3-1995 Method of Measuring and Specifying Color Rendering
	Properties of Light Sources
	CIE 15-2004 Technical Report Colorimetry

Test Methods

1. Photometric and Electrical measurements – Light Distribution Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at 25° C $\pm 1^{\circ}$ C, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° Vertical intervals.

2. Photometric and Electrical Measurements – Integrating Sphere Method:

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C \pm 1° C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at least 5 nm intervals over the range of 380 to 780 nm.





Integrating Sphere Test Results

Test Co	Test Condition:								
Test Ambient	Test Humidity	Orientation	Stabilization Time	Test Time					
25.0 °C	51 %	Face Down	90 mins	25 mins					
Electric	al Data:								

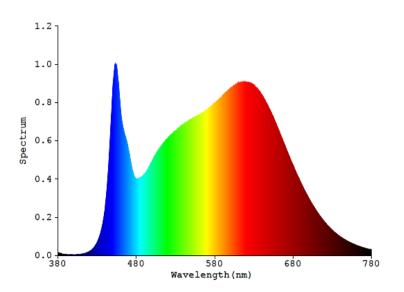
Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.4456	52.77	0.9869

Color Data:

Parameter	Result
CCT(K)	3795
Color Rendering Index (CRI)	95.2
R9	77
Chromaticity, x	0.3874
Chromaticity, y	0.3745
Chromaticity u'	0.2307
Chromaticity v'	0.5016
Duv	-0.00303

S	Special Color Rendering									
R1	97	R9	77							
R2	99	R10	98							
R3	98	R11	95							
R4	94	R12	75							
R5	96	R13	99							
R6	95	R14	99							
R7	93	R15	95							
R8	89	-	-							

Spectrum Diagram:





NVLAP LAB CODE 600150-0

Report No: NTCR17060045 Report Version: V1.1

Goniophotemeter Test Results:

Test Co	ndition:			
Test Ambient	Test Humidity	Orientation	Stabilization Time	Test Time
24.6 °C	45 %	Face Down	90 mins	25 mins
Electric	al Data:			

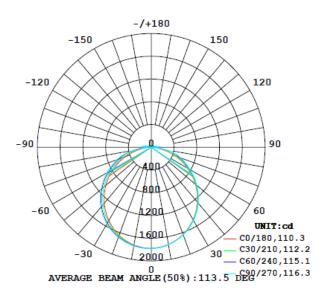
Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.4459	52.81	0.9869

Goniophotometer Data:

Parameter	Result
Total Luminous (lm)	5430.7
Total Luminous per foot (lm/ft)	N/A
Luminous Efficacy (lm/w)	102.83
Zonal Lumens Distribution (0-90°)	96.0%
Beam Angle (°)	113.5
Center Beam Candle Power (cd)	1782

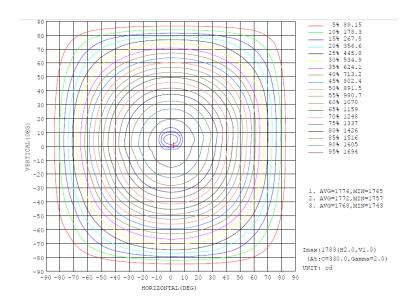
Luminous Intensity Distribution Diagram:

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM













ZONAL FLUX DIAGRAM:

Ŷ	CO	C45	C90	C135	C180	C225	C270	C315	γ	∳ zone		<lum, lam<="" th=""></lum,>
10	1740	1737	1736	1733	1746	1756	1764	1761	0- 10	168.3	168.3	3.1,3.1
20	1640	1631	1636	1626	1647	1668	1688	1679	10- 20	481.7	650.0	12,12
30	1468	1476	1487	1465	1487	1528	1559	1541	20- 30	729.9	1380	25.4,25.4
40	1258	1273	1282	1261	1282	1336	1377	1353	30- 40	880.7	2260	41.6,41.6
50	1010	1032	1045	1017	1040	1106	1153	1123	40- 50	917.2	3178	58.5,58.5
60	736.5	766.1	787.9	748.9	769.2	843.3	899.6	861.9	50- 60	837.7	4015	73.9,73.9
70	444.0	496.6	553.9	482.2	477.7	567.1	643.0	583.9	60-70	659.8	4675	86.1,86.1
80	154.2	249.8	248.7	219.8	185.5	301.7	325.9	317.4	70- 80	417.6	5093	93.8,93.8
90	1.565	32.76	60.92	52.95	1.629	31.32	51.49	29.56	80- 90	120.8	5213	96,96
100	2.992	56.50	104.1	54.52	3.194	74.56	143.8	75.37	90-100	74.30	5288	97.4,97.4
110	3.885	40.99	64.34	40.87	6.578	42.19	77.31	41.78	100-110	52.96	5341	98.3,98.3
120	3.294	32.75	51.30	32.86	6.578	34.21	52.82	33.48	110-120	34.57	5375	99,99
130	3.776	24.10	39.41	24.50	4.743	26.74	41.24	26.06	120-130	24.39	5400	99.4,99.4
140	3.254	16.43	27.90	16.27	4.172	19.39	30.67	19.49	130-140	15.79	5415	99.7,99.7
150	4.428	8.038	17.34	8.658	4.332	12.64	21.38	12.42	140-150	8,913	5424	99.9,99.9
160	4.619	5.740	6.436	5.448	4.559	6.038	9.746	6.630	150-160	4.073	5428	100,100
170	5.023	6.356	5.742	6.695	5.796	5.302	5.117	5.118	160-170	1.684	5430	100,100
180	5.796	7.336	6.033	7.088	5.926	7.074	6.099	7.220	170-180	0.6092	5431	100,100
DEG		LUM	INOUS INTE	NSITY:cd	Less than	25% Percen	= 10.1 %			UNI	1	





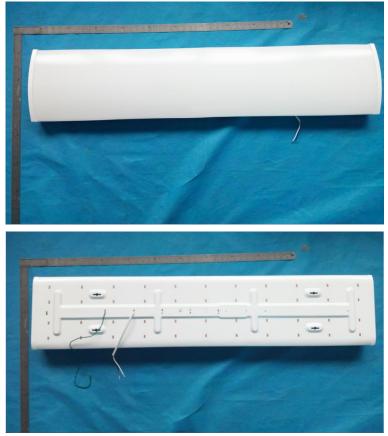
NVLAP LAB CODE 600150-0

Luminous Distribution Intensity Data:

Table1 C(DEG)	_															ONI	T: cd		
(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1777	1779	1781	1777	1779	1780	1781	1779	1778	1780	1779	1782	1777	1779	1781	1777	1779	1780	1781
5	1769	1770	1766	-	1765	1766	1767	1762	1763		1765	1767	1771	1773	1775		1775	1779	1781
10	1740	1739	1737	1737	1738	1736	1736	1733	1733	1733	1733	1734	1746	1750	1754	1756	1759	1763	1764
15	1696	1690	1692	1689	1695	1694	1695	1689	1687	1689	1687	1685	1704	1710	1716	1720	1726	1729	1734
20	1640	1630	1631	1631	1636	1637	1636	1637	1634	1626	1624	1619	1647	1654	1661	1668	1680	1687	1688
25	1559	1554	1558	1561	1568	1567	1571	1560	1557	1555	1546	1543	1576	1582	1593	1606	1618	1630	1632
30	1468	1464	1470	1476	1483	1482	1487	1477	1475	1465	1456	1453	1487	1498	1512	1528	1545	1558	1559
35	1370	1365	1370	1382	1387	1386	1391	1385	1379	1368	1355	1348	1390	1400	1421	1438	1457	1472	1474
40	1258	1254	1264	1273	1280	1283	1282	1278	1269	1261	1245	1238	1282	1294	1317	1336	1358	1374	1377
45	1141	1136	1145	1157	1163	1167	1168	1162	1156	1142	1129	1117	1164	1178	1204	1226	1248	1266	1271
50	1010	1009	1021	1032	1042	1045	1045	1041	1030	1017	1002	990	1040	1055	1083	1106	1130	1149	1153
55	879	877	888	902	909	916	919	913	903	888	868	856	908	924	954	977	1004	1024	1030
60	736	738	751	766	777	789	788	782	768	749	728	715	769	788	818	843	871	892	900
65	593	596	608	628	648	662	666	656	637	613	587	571	625	646	678	705	735	759	770
70	444	450	466	497	525	547	554	539	514	482	445	424	478	500	535	567	603	631	643
75	295	304	332	376	412	428	427	417	399	361	313	278	329	353	394	435	481	506	514
80	154	170	214	250	252	252	249	240	231	220	197	149	185	213	263	302	313	322	326
85	42.5	66.6	84.5	91.7	89.0	83.3	79.4	72.4	66.6	63.3	55.7	45.3	64.5	95.7	127	131	137	141	142
90	1.56	7.92	21.8	32.8	45.4	56.0	60.9 140	62.9	61.2 110	53.0	41.0	18.3	1.63	5.08	17.1	31.3	41.7	48.9	51.5
95	1.63	13.2	42.5	79.5	113	134	-	134	_	77.0	41.2	13.9	2.22	17.1	58.3	104	131	143 136	147
100	2.99	11.6	28.4	56.5 45.8	81.4 61.7	99.4 74.7	104	96.1 72.5	78.6	54.5 45.1	31.6	12.3 11.1	3.19	13.2 12.3	38.8	74.6 52.8	79.0	136 97.1	144
105	3.84	9.57	28.4	45.8	61.7 53.6	61.7	78.1 64.3	60.9	52.8	45.1	28.3	9.34	4.96	12.3	29.9	42.2	79.0 59.5	97.1	105
110	3.88	9.57	25.6	36.8	48.2	55.8	57.4	54.9	47.6	36.9	25.7	9.34	6.75	11.7	26.9	42.2	49.6	57.9	61.7
115	3.67	6.00	19.7	30.8	43.2	49.8	57.4		42.9	30.9	20.1	6.79	6.58	9.52	24.2	34.2	44.3	50.5	52.8
120	3.47	5.15	17.5	28.5	38.0	44.3	-		37.8	28.6	<u> </u>	5.49	5.81	9.52	19.2	30.3	39.8	44.8	46.9
125	3.78	4.90	14.9	20.5	33.1	38.3			33.0		14.5	5.33	4.74	6.97			34.9	39.5	41.2
135	2.81	5.02		19.8					27.7		12.4	5.49	4.03	6.33		22.5	30.3	34.5	36.1
140	3.25	5.04		16.4					22.2			5.34		6.97	11.8		24.8	29.6	30.7
145	_	5.10		12.6								_	4.33		_	16.2		23.6	
150	4.43			8.04					13.5			5.28		6.91		12.6		20.4	
155	4.42			5.63					8.34		5.83	5.69		6.97		8.84	12.3	14.4	
160	4.62	5.28	5.96	5.74	5.42	5.59	6.44	6.10	5.06	5.45	5.79	5.76	4.56	7.04	6.01	6.04	7.60	9.05	9.75
165	4.82	6.24		5.52			5.51			5.56	7.40	6.93		7.10		5.25	4.85	5.72	
170	5.02	6.71	7.11	6.36	5.96	5.72	5.74	5.90	5.60	6.69	7.86	6.74	5.80	7.72	6.63	5.30	4.66	4.92	5.12
175	5.20	7.49	7.17	6.81	6.76	6.10	5.51	5.90	7.02	7.08	7.96	7.00	5.21	7.23	7.39	6.03	6.57	6.15	5.49
175 180 Table2				7.34		6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04		7.09	6.10	6.10
180 Table2 C (DEG)	5.80	7.49	8.04	7.34	6.63	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG)	285	7.49	8.04	330	6.63 345	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG) 0	285 1779	7.49 300 1778	8.04 315 1780	7.34 330 1779	6.63 345 1782	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C(DEG) (DEG) 0 5	285 1779 1778	300 1778 1777	8.04 315 1780 1779	7.34 330 1779 1779	6.63 345 1782 1780	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG) 0 5 10	285 1779 1778 1762	300 1778 1777 1763	8.04 315 1780 1779 1761	7.34 330 1779 1779 1760	6.63 345 1782 1780 1758	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) 0 5 10 15	285 1779 1778 1762 1732	300 1778 1777 1763 1730	8.04 315 1780 1779 1761 1728	7.34 330 1779 1779 1760 1724	6.63 345 1782 1780 1758 1722	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C(DEG) (DEG) 0 5 10 15 20	285 1779 1778 1762 1732 1688	300 1778 1777 1763 1730 1685	8.04 315 1780 1779 1761 1728 1679	7.34 330 1779 1779 1760 1724 1671	6.63 345 1782 1780 1758 1722 1670	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG) 0 5 10 15 20 25	285 1779 1778 1762 1732 1688 1632	300 1778 1777 1763 1730 1685 1626	8.04 315 1780 1779 1761 1728 1679 1616	7.34 330 1779 1779 1760 1724 1671 1606	6.63 345 1782 1780 1758 1722 1670 1600	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG) 0 5 10 15 20 25 30	285 1779 1778 1762 1732 1688 1632 1558	300 1778 1777 1763 1730 1685 1626 1553	8.04 315 1780 1779 1761 1728 1679 1616 1541	7.34 330 1779 1779 1760 1724 1671 1606 1527	6.63 345 1782 1780 1758 1722 1670 1600 1518	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG) 0 5 10 15 20 25 30 35	285 1779 1778 1762 1732 1688 1632 1558 1474	300 1778 1777 1763 1730 1685 1626 1553 1466	8.04 315 1780 1779 1761 1728 1679 1616 1541 1452	7.34 330 1779 1779 1760 1724 1671 1606 1527 1435	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) (DEG) 10 15 20 25 30 35 40	285 1779 1778 1762 1732 1688 1632 1558 1474 1377	300 1778 1777 1763 1685 1626 1553 1466 1370	315 1780 1779 1761 1728 1679 1616 1541 1452 1353	330 1779 1779 1760 1724 1671 1606 1527 1435 1334	6.63 345 1782 1780 1758 1722 1670 1600 1518	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
Table2 C (DEG) 0 5 10 15 20 25 30 35 40 45	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270	300 1778 1777 1763 1730 1685 1626 1553 1466 1370 1261	315 1780 1779 1761 1728 1679 1616 1541 1452 1353 1242	330 1779 1779 1760 1724 1671 1606 1527 1435 1334 1222	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) 0 5 10 15 20 25 30 35 40 45 50	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152	300 1778 1777 1763 1730 1685 1626 1553 1466 1370 1261	315 1780 1779 1761 1728 1679 1616 1541 1452 1353 1242	330 1779 1779 1760 1724 1671 1606 1527 1435 1334 1222	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C (DEG) 0 5 10 15 20 25 30 35 40 45 50	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152	300 1778 1777 1763 1730 1685 1626 1553 1466 1370 1261 1143	315 1780 1779 1761 1728 1679 1616 1541 1452 1353 1242 1123	7.34 330 1779 1779 1760 1724 1671 1606 1527 1435 1334 1222 1101	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204 1080	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 C(DEG) (DEG) 0 5 10 15 20 25 30 35 40 45 50 55	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152 1028	300 1778 1777 1763 1685 1626 1553 1466 1370 1261 1143 1016	8.04 315 1780 1779 1761 1728 1616 1541 1452 1353 1242 1123 996	7.34 330 1779 1779 1760 1724 1671 1606 1527 1435 1334 1222 1101 973	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204 1080 951	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				6.10
180 Table2 (DEG) 0 5 10 15 20 25 30 35 40 45 55 60	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152 1028 897	7.49 300 1778 1777 1763 1730 1685 1626 1553 1466 1370 1261 1143 1016 885	8.04 315 1780 1779 1761 1728 1679 1616 1541 1452 1353 1242 1123 996 862	7.34 330 1779 1779 1760 1724 1601 1527 1435 1334 1222 1101 973 838	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204 1080 951 815	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				
180 Table2 C(DEG) (DEG) 0 5 10 15 20 15 20 30 35 40 45 50 55 60 65	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152 1028 897 764	7.49 300 1778 1777 1763 1730 1685 1626 1553 1466 1370 1261 1143 1016 885 748	8.04 315 1780 1779 1761 1728 1679 1616 1541 1452 1353 1242 1123 996 862 724	7.34 330 1779 1776 1724 1671 1606 1527 1435 1435 1435 1222 1101 973 838 698	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204 1080 951 815 674	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				
180 Table2 C(DEG) (DEG) 0 5 10 15 20 25 30 35 40 45 55 60 55 70	285 1779 1778 1762 1732 1688 1632 1558 1632 1558 1474 1377 1152 1028 897 764 635	300 1778 1777 1730 1685 1626 1553 1466 1370 1261 1143 1016 885 615 489 326	8.04 315 1780 1779 1761 1728 1616 1541 1452 1123 996 862 724 584	7.34 330 1779 1779 1760 1724 1671 1606 1527 1435 1435 1222 1101 973 838 698 554	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204 1080 951 815 674 527	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				
180 Table2 C(DEG) (DEG) 0 5 10 15 20 25 30 35 40 45 55 60 65 70 75 80 85	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152 1028 897 764 635 5511 327 144	300 1778 1777 1763 1685 1626 1553 1466 1553 1466 1553 1466 1553 1466 1553 1466 1553 1466 1553 1466 1553 1466 1143	8.04 315 1780 1779 1761 1778 1616 1541 1452 1353 1242 1123 996 862 724 584 448 317 145	7.34 330 1779 1779 1760 1724 1606 1527 1435 1527 1435 1527 1435 1534 1222 1101 973 838 698 554 411 276 140	6.63 345 1782 1780 1780 1780 1780 1780 1780 1780 1780 1780 1600 1518 1423 1319 1204 1080 951 815 674 527 378 234 109	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56	8.04				
180 Table2 (C(DEG) (DEG) 10 15 20 25 30 40 45 50 55 50 55 50 55 60 65 65 80 85 90	5.80 285 1779 1778 1778 1778 1778 1778 1778 1688 1632 1558 1632 1558 1632 1578 1977 1270 1152 1028 897 764 635 511 327 144 48.8	300 1778 1777 1773 1773 1685 1626 1553 1466 885 748 615 1016 885 748 615 147 489 326 147 40.2	8.04 315 1780 1779 1779 1616 1541 1452 1242 1123 996 862 724 448 317 145 29.6	7.34 330 1779 1776 1774 1671 1606 1527 1435 1527 1435 1334 1222 1101 973 838 698 554 411 276 140 17.7	6.63 345 1782 1780 1780 1780 1780 1780 1780 1780 1000 1518 1423 1319 1204 1080 951 815 674 527 378 234 109 10.3	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56					
180 Table2 (DEG) (DEG) 0 5 10 15 20 25 30 35 40 45 55 55 55 55 60 65 70 75 90 95 95	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1270 1152 897 764 635 511 1028 897 764 635 511 144 48.8 143	300 1778 1777 1763 1730 1685 1626 1553 1466 1370 1261 1143 1016 885 748 615 489 326 147 40.2 127	8.04 315 1780 1779 1761 1728 1616 1541 1452 1353 1242 1353 1242 1353 1242 584 448 317 145 29.6 103	7.34 330 1779 1779 1779 1776 1724 1671 1606 1527 1435 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 1334 1279 1334 1270 1346 1277 1347 1377 1378 1374 1	6.63 345 1782 1780 1758 1722 1670 1600 1600 1610 1423 1319 1204 1080 951 815 674 527 378 234 109 10.3 109 10.3 16.7	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56					
180 Table-2 (DEG) 10 15 10 15 20 25 30 35 40 45 55 55 55 60 65 70 75 80 90 95 100 110 15 10 10 15 10 10 10 10 10 10 10 10 10 10	5.80 285 1779 1778 1762 1732 1688 1632 1558 1474 1357 764 635 511 327 144 48.8 143 135	7.49 300 1778 1777 1763 1730 1685 1626 1370 1261 1143 1016 885 748 615 748 615 489 326 147 40.2 127 112	8.04 315 1780 1779 1761 1728 1616 1679 1616 1541 1452 1353 1242 1123 996 862 724 584 448 317 145 29.6 103 75.4	7.34 330 1779 1779 1724 1671 1671 1671 1671 1671 1671 1435 1334 1222 1101 973 838 698 6554 411 276 140 17.7 59.3 38.1	6.63 345 1782 1780 1758 1722 1670 1600 951 1204 1080 951 815 674 527 378 234 109 10.3 16.7 11.9	6.30		6.16	6.95	7.09	8.05	7.13	5.93	7.56					
180 Table2 (DEG) 0 5 10 10 20 25 30 40 45 55 55 60 65 55 60 65 70 75 80 85 90 95 100 105 105 105 105 105 105 10	285 1779 1778 1762 1752 1558 1638 1632 1558 1474 1377 1152 1028 897 764 897 764 1152 1028 897 1152 1028 897 144 48.8 143 135 98.0	300 1778 1777 1763 1770 1763 1685 1626 1553 1466 1370 1261 1143 1016 885 748 885 748 489 326 147 40.2 127 112 79.1	8.04 315 1780 1779 1761 1779 1616 1541 1452 1123 996 862 724 1123 996 862 724 1123 996 862 103 75.4 52.3	7.34 330 1779 1779 1779 1760 1724 1671 1606 1527 1415 1334 838 698 554 411 276 140 17.7 59.3 38.1 28.5	6.63 345 1782 1780 1758 1722 1670 1600 1518 1423 1319 1204 1080 951 815 674 109 10.3 16.7 11.9 11.1	6.30		6.16	6.95	7.09		7.13	5.93	7.56					
180 Tabla2 (DEG) (DEG) 0 5 10 15 20 20 25 30 30 35 30 40 55 60 65 55 60 65 70 75 85 90 95 100 101 15 10 10 15 10 10 15 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 15 10 10 10 15 10 10 15 10 10 15 10 10 10 10 10 10 10 10 10 10	285 1779 1778 1732 1688 1632 1558 1632 1558 1632 1558 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1688 1632 1578 1632 1635 1635 1635 1635 1635 1635 1635 1635	7.49 300 1778 1777 1730 1685 1626 1535 1626 1370 1261 1143 1016 1370 1261 1143 1016 1370 1261 1143 1016 143 1016 143 1016 143 1016 143 1016 143 1016 143 1016 143 1016 143 1016 155 155 165 143 1016 155 165 143 1016 155 165 143 1016 155 165 143 1016 155 165 145 143 1016 155 155 165 143 1016 155 165 143 1016 155 165 147 1017 1016 1017 1016 1016 1017 1017 1017 1016 1016 1017 1017 1016 1016 1017	8.04 315 1780 1779 1761 1728 1679 1616 1541 1452 1353 1242 1123 996 862 724 584 448 317 145 29.6 103 75.4 103 75.4 118 22.3 41.8	7.34 330 1779 1779 1779 1779 1760 1527 1334 1523 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 1334 1275 1334 1222 1334 1275 1336 1275 1336 1275 1375 1	6.63 345 1782 1780 1758 1752 1670 1600 1518 1319 1204 1600 951 1319 1204 1090 951 815 674 527 378 234 109 10.3 16.7 11.9 10.9 10.3 16.7 11.1 10.6	6.30		6.16	6.95	7.09		7.13	5.93	7.56					
180 Table2 (C(DEG) (DEG) 0 5 10 10 20 25 30 40 45 50 55 50 55 50 55 60 65 50 65 60 65 80 85 90 95 90 10 115 10 115 10 10 115 10 10 10 10 10 10 10 10 10 10	5.80 285 1779 1778 1732 1688 1632 1558 1474 1377 1270 1152 1028 897 764 635 511 327 144 48.8 143 135 98.0 58.1	7.49 300 1778 1777 1730 1685 1626 1553 1466 885 748 615 489 326 147 40.2 127 112 127 112 78.8 748 615 489 326 147 40.2 127 147 147 147 147 147 147 147 14	8.04 315 1780 1779 1761 1728 1679 1616 1541 1452 996 1242 1123 996 862 724 584 448 317 145 29.6 103 75.4 52.3 29.6 103 75.4 36.9	7.34 330 1779 1779 1779 1779 1779 1779 1779 1759 1774 16016 1724 1611 1606 1724 1633 1334 1222 1334 1222 101 973 838 698 698 698 698 698 698 1279 1017 10	6.63 345 1782 1780 1758 1758 1758 1758 1758 1752 1670 1518 1423 1319 1204 1080 951 1204 1080 951 109 10.3 16.7 109 10.3 16.7 11.9 10.5	6.30		6.16	6.95	7.09		7.13	5.93						
180 Table2 (DEG) 0 0 5 10 15 20 25 35 40 35 40 55 55 55 55 55 55 55 55 55 5	285 1779 1778 1772 1772 1688 1632 1635 1474 1377 1270 1152 1028 897 764 635 511 1327 144 48.8 98.0 72.6 98.0	7.49 300 1778 1777 1773 1763 1773 1685 1553 1626 1553 1626 1553 1626 1370 1261 1466 1370 1261 1469 326 147 40.2 79.1 58.7 112 112 79.1 58.8 43.8	8.04 315 1780 1779 1761 1772 1616 1541 1452 1353 1242 1353 1242 1353 1242 1353 1242 103 75.4 52.3 41.8 53.9 33.5	7.34 330 1779 1779 1779 1779 1779 1750 1724 1606 1724 1615 1334 1622 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 1334 1223 1334 1223 1334 1223 1334 1223 1334 1225 1338 1275 1338 1275 1338 1275 1338 1275 1334 1275 1338 1275 1338 1275 1338 1275 1338 1275 1275 1338 1275 1	6.63 345 1782 1780 1758 1722 1670 1518 1423 1319 1204 951 815 674 1080 951 815 674 1095 104 1095 103 10.4 8.7 10.4 8.7 10.4 8.7 10.4 8.7 10.4 8.7 10.4 10.5 10.4 10.4 10.4 10.5 10.4 10.5 10	6.30		6.16	6.95	7.09			5.93						
180 Table2 (DEG) (DEG) 10 15 20 25 30 35 40 45 45 55 50 55 50 55 60 65 70 75 80 90 95 100 115 120 100 115 100 105 100 100	285 1779 1778 1732 1688 1632 1558 1474 1377 1152 897 764 635 511 1327 764 635 511 1327 11028 897 764 635 511 1327 98.0 72.6 58.1 355 89.0	7.49 300 1778 1777 1730 1685 1626 1553 1626 1370 1261 1146 885 748 615 748 615 326 1447 40.2 127 112 79.1 58.7 43.8 39.1	8.04 315 1780 1779 1761 1778 1679 1616 1541 1452 1353 1242 1353 1242 1353 1242 1353 1242 1353 1242 1353 1242 1452 1252 145 1452 145 1452 145 145 145 145 145 145 145 145	7.34 330 1779 1779 1779 1779 1774 1671 1606 1527 1435 1334 1334 1345 1354 1374 1401 1772 1328 554 4111 1400 17.7 59.3 38.1 28.5 23.2 20.9 18.3	6.63 345 1782 1780 1758 1772 1670 1600 1518 1423 1319 1204 1080 1518 815 674 527 815 674 527 234 109 10.3 16.7 11.9 11.1 10.6 10.4 8.700 7.66	6.30		6.16	6.95	7.09		7.13	5.93						
180 Table2 (DE6) (DE6) 10 15 20 25 30 40 45 55 60 65 55 60 65 55 80 85 90 95 100 115 120 105 110 115 120 105 105 105 105 105 105 105 10	285 2285 1779 1778 1772 1772 1782 1682 1632 1558 1474 1377 1270 1152 1028 897 764 635 511 1327 144 48.8 143 135 98.0 72.6 58.1 50.8 59.1 50.8 50.3 50.4 50.3 50.3 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.3 50.4 50.4 50.3 50.4 50	7.49 300 1778 1777 1773 1763 1778 1773 1685 1626 1370 1685 1626 1370 1261 1373 1466 1370 1261 1373 1466 1370 1261 143 1016 885 1466 147 1489 326 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 1489 147 147 147 1489 147 147 1489 147 147 147 147 147 147 1489 147 147 147 147 147 147 147 147	8.04 315 1780 1779 1771 1772 1616 1541 1452 133 2946 448 317 448 317 448 307 441.8 36.9 33.5 29.6 29.6 29.6	7.34 330 1779 1779 1779 1779 1779 1750 1724 16016 1527 1435 1334 1222 1435 1334 1222 1435 1344 1222 1357 134 2255 23.2 20.9 18.3 16.4 16.4	6.63 345 1782 1780 1758 1722 1670 1600 951 1423 1319 1204 1060 951 1319 1204 1060 951 1319 1060 951 1060 1060 951 1060 1060 951 1060 1060 951 1060 1060 1060 951 1060 1060 951 1060 1060 1060 951 1060 107 10.3 10.6 1	6.30		6.16	6.95	7.09			5.93						
180 Table2 (DEG) 0 5 10 15 20 25 30 35 30 40 45 50 55 60 65 70 75 80 85 90 95 100 115 125 100 125 110 125 100 125 100 15 10 15 10 15 10 15 10 15 10 10 15 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 15 10 10 10 15 10 10 15 10 10 10 15 10 10 10 10 15 10 10 10 10 10 10 10 10 10 10	285 1779 1776 1772 1688 1632 1558 1474 1452 1270 1152 1270 1152 1270 1152 1327 1270 1152 1327 144 143 135 98.0 72.6 58.1 50.8 45.0 839.4 34.5	7.49 300 1778 1777 1763 1773 1763 1777 1763 1777 1763 1777 1763 1777 1763 1553 1466 1553 1466 1553 1466 1553 1466 1553 1466 1577 1261 1370 1261 143 1085 748 489 4326 127 112 127 127 127 127 1261 1370 1261 1370 1261 1370 1261 1370 1261 1370 1261 1370 1261 1370 1261 1370 1261 1277 1263 1370 1261 1277 1263 1370 1261 1277 1265 1277 1265 1277 1265 1277 1265 1277 1265 1277 1265 1277 1265 1277 1265 1277 1265 1277 1265 1277 1277 1277 1276 1277 1277 1276 1277 1277 1276 1277 1277 1276 1277	8.04 315 1780 1779 1761 1779 1761 1778 1679 1761 1541 1452 1242 1242 1242 1242 1242 1242 1242 1242 1242 1242 1253 1242 1242 1253 1242 1255 1242 1255 1	7.34 330 1779 1776 1779 1776 1772 1671 1671 1632 1527 1435 1527 1435 1527 1435 1534 1222 1001 973 838 698 698 698 698 698 698 698 69	6.63 345 1782 1780 109 11.1 10.6 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 8.700 10.4 1.500 10.4 1.500 10.4 1.500 10.4 1.500 10.4 1.500 10.4 1.500 1.5	6.30		6.16	6.95				5.93						
180 Table2 (DEG) 0 5 5 10 15 20 25 30 40 45 55 50 55 50 55 60 65 55 60 65 80 85 90 95 110 115 120 125 130 115 125 130 115 125 130 140 140	285 1779 1776 1776 1778 1778 1778 1778 1778 1688 1474 1357 1474 1357 1028 897 1474 1357 1028 897 1474 1357 1028 897 144 48.8 143 135 98.0 72.6 58.1 135 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 58.1 35.8 98.0 72.6 59.1 72.1 75.8 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4	7.49 300 1778 1777 1763 1777 1763 1773 1685 1553 1466 1553 1466 1553 1466 1370 1261 1143 1016 885 147 40.2 127 112 127 112 129.1 158.7 48.8 39.1 34.6 39.1 34.6 39.2 29.9 24.3	8.04 315 1780 1779 1761 1779 1761 1778 1679 1779 1761 1452 1242 1123 996 862 724 584 448 584 448 103 584 448 103 584 445 29.6 20.6 29.6 20.0 19.5	7.34 330 1779 1779 1770 1772 1760 1724 1671 1671 1671 1671 1671 1671 1671 1671 1671 1671 1671 1022 1973 838 638 638 638 638 638 638 63	6.63 345 1782 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1780 1890 1000 1518 1423 1319 1000 1518 1423 1319 1000 1518 1423 1319 1000 1518 1423 1309 1000 1518 1423 1309 1000 1	6.30		6.16	6.95				5.93						
180 Table-2 (D26) 0 5 10 15 20 25 35 40 25 50 35 50 55 55 55 55 55 55 55 55 5	285 1779 1776 1776 1778 1688 1632 1558 1632 1558 1474 1377 1270 1152 897 764 635 5511 1327 144 635 5511 327 144 88.8 143 135 98.0 72.6 58.1 50.8 98.0 72.6 58.1 50.9 9.4 34.5 9.2 9.4 29.4	7.49 300 1778 1777 1763 1770 1763 1730 1685 1626 1553 1466 1553 1466 885 748 885 748 885 748 805 74 805 748 805 748 805 74 805 74 805 74 805 74 805 74 805 74 805 74 805 74 805 74 805 74 75 75 75 75 75 75 75 75 75 75	8.04 315 1780 1779 1761 1779 1616 1541 1452 1353 1242 1123 862 724 448 317 145 29.6 103 75.4 148 30.7 29.6 103 36.9 33.5 29.6 20.6 19.5 15.8	7.34 330 1779 1779 1779 1779 1760 1724 1671 1606 1527 1435 571 1435 554 411 222 1001 276 140 554 411 276 140 554 411 28.5 23.2 20.9 23.2 20.9 16.3 16.4 12.9 10.7 1	6.63 345 1782 1780 1758 1722 1750 1670 1670 1670 1670 1620 1518 1423 1319 1204 103 1671 10.3 16.7 10.3 16.7 11.1 10.6 10.4 8.70 6.02 6.02 6.02	6.30		6.16	6.95				5.93						
180 Table2 (DEG) (DEG) 10 15 20 25 30 35 40 25 30 35 40 45 50 55 55	285 1779 1778 1732 1688 1632 1558 1632 1558 1474 1377 1270 1028 897 764 635 511 132 764 635 531 1327 144 48.8 143 135 98.0 72.6 28.1 1558.1 50.8 45.0 89.4 33.5 8.1 135 98.0 72.6 29.4 23.6 20.2	300 1778 1777 1753 1685 1625 1553 1626 1370 1261 1466 1370 1261 1466 1370 1261 147 1466 155 326 147 40.2 127 147 40.2 127 19.1 158.7 48.8 43.8 39.1 122 127 9.1 122 127 9.1 122 127 9.1 126 129 20.6 16.4	8.04 315 1780 1779 1761 1728 1679 1616 1541 1353 1242 996 862 103 724 584 448 317 1452 123 996 862 103 75.4 52.3 31.5 29.6 103 33.5 29.6 103 33.5 29.6 15.3 11.2 103 175.4 103 15.4 1	7.34 330 1779 1779 1779 1724 1601 1527 1334 1222 1334 1222 1334 1222 1334 1222 1334 1222 20.9 18.3 8.83 8.03	6.63 345 1782 1780 1712 1670 1518 1423 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1319 1204 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 1080 951 109 10.3 109 10.3 10.4 8.5 10.9 10.4 8.5 10.4 10.4 8.5 10.4 10.4 8.5 10.4 8.5 10.4 10.4 10.4 8.5 10.4 10.	6.30		6.16	6.95				5.93						
180 Table2 (C(DEG) (DEG) 0 5 5 10 10 225 30 40 45 50 55 50 55 50 65 50 65 50 65 50 80 85 90 95 90 95 100 115 120 115 120 115 120 115 120 115 120 115 120 115 120 115 120 125 125 125 125 125 125 125 125	5.80 285 1779 1778 1772 1732 1688 1632 1558 1635 511 1377 764 897 764 635 511 1327 764 897 764 1377 1270 635 511 1327 144 48.8 143 327 58.1 50.8 45.0 89.0 72.6 58.1 50.8 58.1 50.8 133 59.0 92.0 20.2 20.2 14.4	300 1778 1777 1753 1685 1626 1553 1626 1370 1261 1370 1261 1345 1016 885 748 885 326 615 145 145 145 145 145 145 145 145 147 40.2 127 112 19.1 158.7 79.1 158.7 19.1 129.9 24.3 20.6 29.9 24.3 20.6 4 12.3	8.04 315 1780 1779 1715 1728 1679 1616 1541 1353 1242 996 862 724 448 317 52.3 448 317 52.3 41.8 52.3 41.8 52.9 6 29.6 10.3 15.5 15.8 10.5	7.34 330 1779 1779 1779 1774 1606 1527 1435 1334 1527 1435 1334 1322 1101 973 838 698 554 411 276 1407 59.3 38.1 27.6 14.7 59.3 38.1 27.6 16.3 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 16.9 16.3 17.3 1	6.63 345 1782 1780 1782 1780 1722 1670 1670 1518 1722 1319 1204 815 674 527 378 2349 10.3 16.7 11.9 10.3 16.7 11.1 10.6 8.70 7.66 6.82 6.02 6.09 6.01	6.30		6.16	6.95				5.93						
180 Table2 0 0 5 10 15 20 230 30 40 55 60 65 70 75 80 85 90 95 100 115 120 125 130 135 145 150 155 160	5.80 285 1779 1778 1732 1688 1632 1558 1474 1377 1270 1558 1474 1377 1270 1355 897 48.8 974 635 511 1327 143 135 98.0 39.4 34.5 50.3 9.4 34.5 29.4 20.6 20.2 29.4 20.6 20.2 14.4 9.06	300 1778 1777 1763 1625 1626 1553 1466 1370 1261 1370 1261 1373 1466 1370 1261 1373 1466 1373 1468 1373 1468 1374 143 143 143 143 143 143 143 143 143 14	8.04 315 1780 1779 1761 1728 1679 1616 1679 1641 1452 1353 1242 1123 9966 862 724 584 448 862 724 145 29.6 29.6 29.6 29.6 29.6 29.6 29.6 10.3 15.8 12.4 29.6 20.6 15.8 12.4 29.6 20	7.34 330 1779 1779 1779 1724 1606 1334 1222 1334 1222 1334 1322 1335 1324 1322 1334 1322 1322 1338 1322 1322 1338 1322 1322 1338 1322 1322 1322 1338 1322 1325 1325 1325 1326 1326 1326 1326 1327 1326 1327 1326 1	6.63 345 1782 1780 1782 1780 1782 1600 1423 1319 1204 1423 1319 1204 1423 1319 1204 1423 1319 1204 1308 951 1204 1309 10.3 951 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.5 10.6 10.5 10.7 10.	6.30		6.16											
180 Table2 (DEG) 0 5 10 10 225 30 225 30 225 30 40 45 50 55 50 55 60 65 57 70 85 90 95 100 105 115 120 115 120 115 125 130 135 140 145 155 140 155 155 160 155 160 155 160 155 160 155 160 155 160 155 160 155 160 155 160 155 160 155 160 165 175 160 165 165 165 165 165 165 165 165	285 1779 1778 1762 1732 1688 1632 1558 1474 1377 1652 1270 1152 1028 897 764 5531 1327 144 897 764 5531 1327 144 897 764 50.8 133 135 98.0 98.0 98.0 39.4 39.4 50.8 14.5 20.2 14.4 9.06 5.77	7.49 300 1778 1777 1763 1625 1626 1553 1466 1370 1261 1143 1016 885 748 845 147 40.2 1016 147 40.2 127 112 127 112 127 112 129 126 147 489 326 147 489 326 147 147 112 127 126 147 147 126 147 147 147 147 147 148 147 147 147 147 147 147 147 147	8.04 315 1780 1779 1761 1779 1616 1541 1452 1452 3996 862 724 145 145 1242 1123 3996 862 724 145 1242 1253 1242 1242 1253 1242 1242 1253 1242 1242 1253 1242 1242 1253 1242 1242 1253 1242 1253 1242 1253 1242 1253 1242 1253 1242 1253 1242 1253 1242 1253 1255 15	7.34 330 1779 1779 1779 1779 1724 1671 1606 1527 1435 1334 1422 1101 973 838 698 554 4411 276 554 4411 276 533 838 140 17.7 59.3 23.2 20.9 18.3 16.4 12.9 10.7 8.83 8.03 7.85 8.03 7.06 6.54	6.63 345 1782 1780 1758 1772 1670 1600 951 1423 1319 951 1423 1319 951 1423 1319 951 1423 1319 951 1423 1319 951 1423 1319 100 951 130 951 1319 100 951 100 100 951 100 951 100 100 100 100 100 100 100 1	6.30		6.16											
180 Table-2 (D26) 0 5 5 5 5 5 5 5 5 5 5 5 5 5	2.85 1779 1778 1732 1688 1632 1474 1377 1152 1028 897 764 635 11327 1028 897 764 635 511 327 168 143 135 98.0 72.6 58.1 327 144.8 143 135 0.8 45.0 39.4 50.8 29.4 23.6 5.77 5.65	300 1778 1777 1733 1685 1626 1553 1466 1370 1261 1143 1016 748 615 748 748 615 748 748 748 748 748 748 748 748 748 748	8.04 315 1780 1779 1728 1616 1541 1452 1242 1253 1242 1242 1242 1253 1242 1242 1253 1253 1242 1253 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1	7.34 330 1779 1779 1779 1724 1606 1334 1222 1334 1222 1334 1322 1335 1324 1322 1334 1322 1322 1338 1322 1322 1338 1322 1322 1338 1322 1322 1322 1338 1322 1325 1325 1325 1324 1326 1327 1325 1326 1326 1327 1326 1327 1326 1	6.63 345 1782 1780 1782 1780 1782 1600 1518 1423 1610 1600 951 1204 1080 951 1204 1080 951 1204 1090 1193 1204 1090	6.30			6.95				5.93						











NVLAP LAB CODE 600150-0

Report No: NTCR17060045 Report Version: V1.1

Equipment ID	Equipment Name	Last Cal.	Due Cal.
NTC-F01-001	Goniophotometer System	2016-12-03	2017-12-02
NTC-F01-006	2.0 meter Integrating Sphere	2016-12-03	2017-12-02
NTC-F01-013	Standard Lamp	2016-12-27	2017-12-26
NTC-F01-031	Digital Power Meter	2016-12-05	2017-12-04
NTC-F01-019	Temperature & Humidity Meter	2016-11-28	2017-11-27





*****END OF DATASHEET****

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