

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P226879

Luminaire Tested: **IST-AF-1200-LED-E1-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-1200-LED-E1-SL2  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6808.7 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U1 - G2

Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

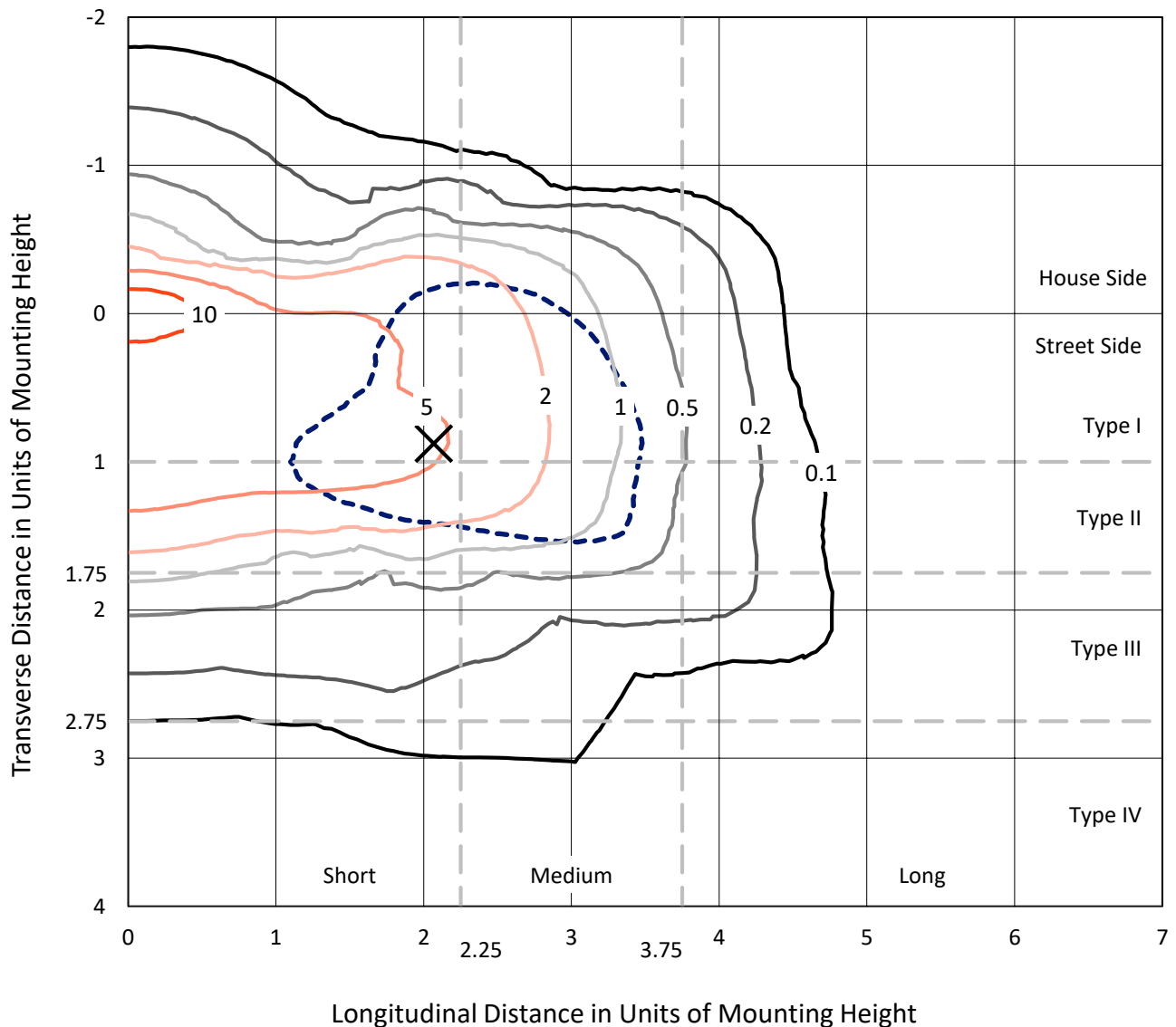


REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

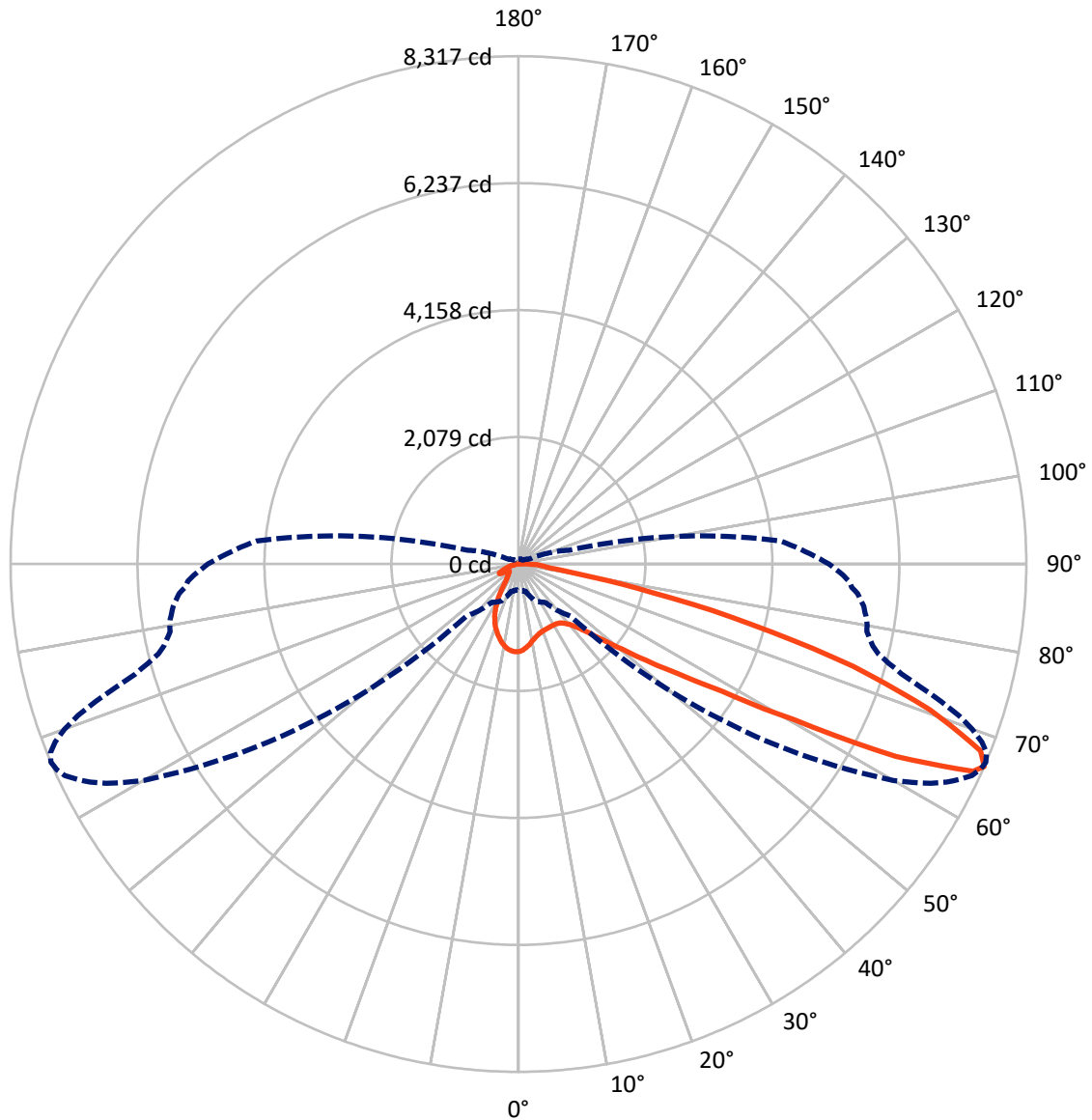


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

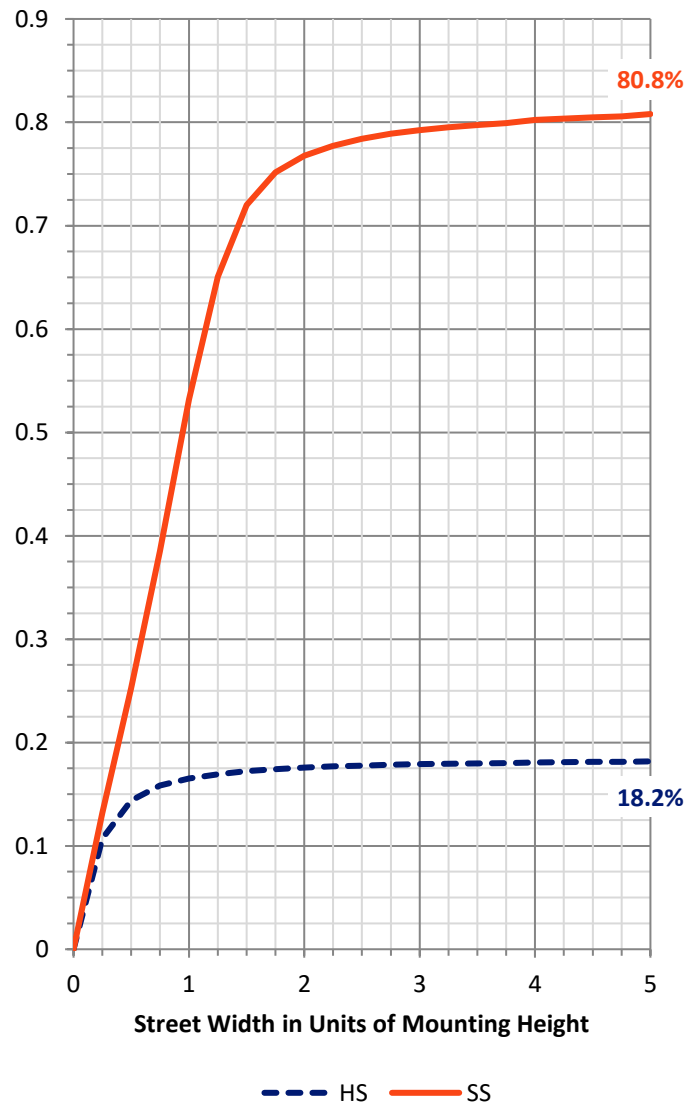
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1257.2	0.5	1257.7
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	5549.1	2.0	5551.1
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	6806.3	2.5	6808.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	1.8
10°-20°	295.8	4.3
20°-30°	405.6	6.0
30°-40°	579.5	8.5
40°-50°	939.6	13.8
50°-60°	1488.7	21.9
60°-70°	1886.5	27.7
70°-80°	937.8	13.8
80°-90°	148.6	2.2
90°-100°	2.5	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6806.3	100.0
0°-180°	6808.7	100.0



REPORT NUMBER: P226879

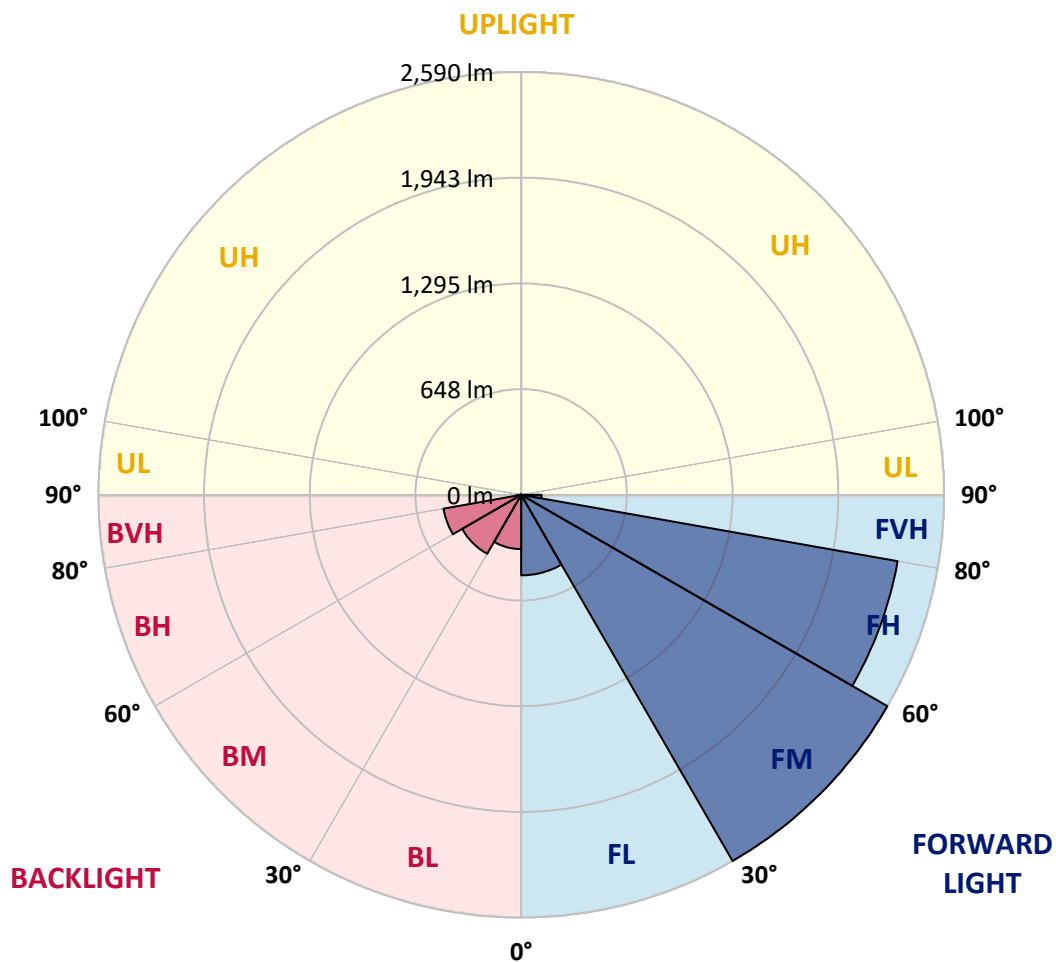
CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.3	7.2			
FM	(30°-60°)	2590.1	38.0			
FH	(60°-80°)	2341.2	34.4			G2/5000
FVH	(80°-90°)	124.6	1.8			G2/225
BL	(0°-30°)	332.4	4.9	B1/500		
BM	(30°-60°)	417.7	6.1	B1/1000		
BH	(60°-80°)	483.1	7.1	B1/500		G1/500
BVH	(80°-90°)	24.0	0.4			G1/100
UL	(90°-100°)	2.5	0.0		U1/10	
UH	(100°-180°)	0.5	0.0		U1/10	

**BUG Rating: B1-U1-G2**

Type II Short





REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1331.9	1335.0	1352.3	1361.5	1374.8	1378.9	1394.3	1400.4	1405.5	1404.5	1404.5
5°	1212.2	1221.4	1229.6	1248.0	1267.4	1291.0	1320.6	1343.1	1347.2	1352.3	1355.4
7.5°	1121.2	1127.3	1141.6	1154.9	1179.5	1212.2	1254.1	1282.8	1288.9	1291.0	1298.1
10°	1056.7	1060.8	1073.1	1090.5	1119.1	1150.8	1194.8	1224.5	1233.7	1237.8	1243.9
12.5°	1006.6	1012.7	1024.0	1042.4	1073.1	1105.8	1151.8	1181.5	1187.6	1192.8	1202.0
15°	974.9	979.0	989.2	1009.7	1037.3	1070.0	1115.0	1150.8	1154.9	1160.0	1168.2
17.5°	968.7	971.8	977.9	993.3	1014.8	1046.5	1092.5	1122.2	1129.3	1136.5	1144.7
20°	993.3	995.3	997.4	999.4	1011.7	1032.2	1077.2	1108.9	1115.0	1121.2	1131.4
22.5°	1046.5	1049.5	1044.4	1037.3	1028.1	1032.2	1070.0	1102.7	1106.8	1113.0	1121.2
25°	1138.5	1135.5	1120.1	1108.9	1076.1	1049.5	1072.1	1099.7	1104.8	1110.9	1120.1
27.5°	1247.0	1242.9	1233.7	1203.0	1148.8	1094.6	1084.3	1104.8	1107.9	1113.0	1121.2
30°	1363.6	1364.6	1356.4	1322.7	1253.1	1162.1	1111.9	1117.1	1119.1	1123.2	1128.3
32.5°	1469.0	1484.3	1483.3	1481.2	1382.0	1253.1	1165.1	1144.7	1141.6	1144.7	1146.7
35°	1590.7	1593.8	1622.4	1636.7	1555.9	1386.1	1242.9	1197.9	1185.6	1186.6	1184.6
37.5°	1721.6	1725.7	1774.8	1799.4	1737.0	1537.5	1346.2	1276.6	1265.4	1254.1	1246.0
40°	1911.9	1928.3	1953.8	1981.5	1950.8	1741.1	1482.3	1388.1	1359.5	1357.5	1341.1
42.5°	2196.3	2191.2	2178.9	2201.4	2164.6	1969.2	1647.0	1545.7	1524.2	1495.6	1473.0
45°	2475.5	2486.8	2433.6	2443.8	2445.9	2233.1	1885.3	1743.1	1731.9	1698.1	1673.5
47.5°	2663.8	2651.5	2579.9	2632.1	2759.9	2541.0	2161.5	2012.1	1988.6	1971.2	1955.9
50°	2674.0	2663.8	2617.7	2709.8	2982.9	3088.3	2546.1	2372.2	2338.5	2307.8	2298.6
52.5°	2424.4	2410.1	2425.4	2612.6	3063.7	3546.6	3089.3	2819.3	2791.6	2766.1	2730.3
55°	1979.4	1995.8	2068.4	2337.4	2940.0	3871.9	4158.3	3509.7	3391.1	3390.1	3302.1
57.5°	1478.2	1461.8	1516.0	1768.7	2626.9	3987.5	5140.3	4979.7	4714.8	4535.8	4319.9
60°	997.4	1001.5	1051.6	1181.5	1828.0	3861.6	5798.1	6357.6	6264.6	6226.7	6168.4
62.5°	691.5	697.7	743.7	865.4	1069.0	3106.7	5990.4	7130.0	7296.7	7434.8	7401.0
65°	483.9	484.9	530.9	719.1	801.0	1595.8	5565.9	7232.3	7480.8	7718.2	7930.9
66°	426.6	427.6	465.4	669.0	768.2	1204.0	5197.6	7090.1	7373.4	7649.6	7869.6
67.5°	365.2	371.3	401.0	568.8	736.5	928.8	4293.3	6665.5	6962.2	7266.0	7556.5
70°	250.6	252.7	279.3	461.4	689.5	815.3	2446.9	5203.8	5614.0	6147.9	6456.9
72.5°	179.0	177.0	180.0	285.4	707.9	810.2	1285.8	3424.8	3998.7	4467.2	4801.7
75°	159.6	154.5	141.2	177.0	516.6	884.9	861.3	2016.2	2453.0	2879.6	3222.3
77.5°	142.2	134.0	126.8	136.1	255.7	833.7	773.4	1154.9	1377.9	1696.1	1960.0
80°	108.4	103.3	107.4	117.6	153.4	767.2	768.2	768.2	828.6	932.9	1037.3
82.5°	71.6	65.5	74.7	97.2	115.6	578.0	793.8	678.2	667.0	662.9	670.0
85°	45.0	38.9	52.2	72.6	89.0	301.8	814.3	716.1	663.9	613.8	563.6
87.5°	16.4	18.4	26.6	41.9	58.3	130.9	714.0	631.2	595.4	533.0	474.6
90°	4.1	3.1	5.1	12.3	13.3	24.6	109.5	174.9	104.3	52.2	41.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P226879

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**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1405.5	1410.6	1412.7	1410.6	1411.7	1417.8	1415.8	1418.8	1418.8	1420.9	1420.9
5°	1359.5	1363.6	1371.8	1370.8	1378.9	1382.0	1385.1	1389.2	1394.3	1397.4	1403.5
7.5°	1305.3	1313.5	1320.6	1324.7	1329.8	1340.1	1343.1	1352.3	1360.5	1368.7	1374.8
10°	1253.1	1264.4	1272.6	1275.6	1286.9	1292.0	1303.2	1310.4	1320.6	1330.9	1340.1
12.5°	1209.1	1219.4	1223.4	1233.7	1243.9	1254.1	1259.3	1272.6	1282.8	1296.1	1308.4
15°	1176.4	1186.6	1194.8	1202.0	1212.2	1222.4	1230.6	1243.9	1256.2	1269.5	1280.7
17.5°	1155.9	1162.1	1172.3	1178.4	1190.7	1203.0	1212.2	1227.5	1240.8	1252.1	1267.4
20°	1140.6	1147.8	1157.0	1166.2	1177.4	1192.8	1200.9	1217.3	1231.6	1244.9	1259.3
22.5°	1132.4	1139.6	1148.8	1158.0	1170.3	1182.5	1195.8	1210.2	1225.5	1239.8	1254.1
25°	1129.3	1135.5	1143.7	1152.9	1166.2	1179.5	1190.7	1207.1	1220.4	1235.7	1253.1
27.5°	1130.4	1134.5	1143.7	1151.8	1165.1	1177.4	1188.7	1205.0	1220.4	1234.7	1252.1
30°	1134.5	1137.5	1146.7	1153.9	1165.1	1177.4	1187.6	1205.0	1218.3	1233.7	1252.1
32.5°	1148.8	1152.9	1157.0	1162.1	1172.3	1181.5	1193.8	1209.1	1221.4	1236.7	1252.1
35°	1182.5	1179.5	1182.5	1184.6	1191.7	1200.9	1210.2	1223.4	1234.7	1248.0	1264.4
37.5°	1235.7	1229.6	1231.6	1230.6	1230.6	1236.7	1246.0	1255.2	1264.4	1277.7	1294.0
40°	1333.9	1318.6	1314.5	1303.2	1300.2	1305.3	1311.4	1312.4	1323.7	1341.1	1348.2
42.5°	1460.8	1440.3	1443.4	1425.0	1419.9	1413.7	1421.9	1416.8	1423.9	1435.2	1450.5
45°	1661.3	1641.8	1621.4	1591.7	1597.8	1575.3	1569.2	1571.3	1570.2	1574.3	1592.7
47.5°	1900.6	1875.1	1861.8	1850.5	1829.0	1815.7	1798.3	1772.8	1778.9	1787.1	1803.5
50°	2250.5	2242.3	2216.7	2179.9	2174.8	2155.4	2150.2	2127.7	2119.6	2118.5	2117.5
52.5°	2718.0	2664.8	2654.6	2619.8	2593.2	2574.8	2568.6	2536.9	2505.2	2523.6	2521.6
55°	3287.8	3243.8	3187.5	3156.8	3135.3	3091.4	3080.1	3040.2	3021.8	3011.6	2986.0
57.5°	4245.2	4090.8	3975.2	3917.9	3837.1	3755.3	3726.6	3644.8	3581.4	3536.3	3539.4
60°	5914.7	5639.5	5315.3	5170.0	4833.4	4784.3	4553.2	4496.9	4357.8	4265.7	4212.5
62.5°	7377.5	7302.8	7147.4	6935.6	6598.0	6209.3	6034.4	5686.6	5414.5	5295.8	5131.1
65°	8076.2	8181.6	8224.5	8184.6	8049.6	7812.3	7603.6	7264.0	6807.7	6550.0	6229.8
66°	8040.4	8196.9	8275.7	8316.6	8267.5	8127.3	7908.4	7629.2	7276.2	6883.4	6524.4
67.5°	7778.5	7930.9	8040.4	8165.2	8165.2	8121.2	8032.2	7846.0	7596.4	7253.7	6931.5
70°	6708.5	6915.1	7108.5	7146.3	7252.7	7220.0	7290.6	7171.9	7112.6	6969.4	6796.5
72.5°	5226.3	5399.1	5564.9	5730.6	5703.0	5667.1	5660.0	5684.5	5563.8	5606.8	5561.8
75°	3476.0	3773.7	3943.5	3927.1	3938.4	3947.6	3871.9	3703.1	3834.0	3668.3	3723.5
77.5°	2112.4	2250.5	2296.5	2245.4	2178.9	2093.0	1954.9	1874.0	1758.5	1767.7	1690.9
80°	1107.9	1125.2	1088.4	985.1	928.8	877.7	720.2	649.6	584.1	559.6	504.3
82.5°	635.3	593.3	548.3	513.5	447.0	402.0	340.6	301.8	259.8	223.0	209.7
85°	514.5	458.3	416.3	377.5	332.5	292.6	241.4	201.5	170.8	148.3	143.2
87.5°	424.5	385.7	342.7	305.9	261.9	221.0	170.8	133.0	105.4	84.9	78.8
90°	37.8	51.1	36.8	20.5	30.7	16.4	9.2	10.2	8.2	8.2	9.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1423.9	1423.9	1426.0	1428.0	1429.1	1429.1	1429.1	1431.1	1432.1	1429.1	1432.1
5°	1406.6	1411.7	1415.8	1418.8	1419.9	1422.9	1426.0	1428.0	1431.1	1431.1	1433.2
7.5°	1383.0	1392.2	1397.4	1402.5	1407.6	1412.7	1418.8	1422.9	1425.0	1429.1	1432.1
10°	1353.4	1364.6	1374.8	1383.0	1390.2	1400.4	1408.6	1414.7	1423.9	1425.0	1432.1
12.5°	1321.7	1338.0	1346.2	1361.5	1371.8	1387.1	1395.3	1404.5	1414.7	1419.9	1428.0
15°	1299.1	1313.5	1328.8	1343.1	1359.5	1377.9	1388.1	1400.4	1414.7	1426.0	1436.2
17.5°	1281.8	1301.2	1318.6	1337.0	1357.5	1376.9	1392.2	1405.5	1423.9	1430.1	1440.3
20°	1276.6	1298.1	1315.5	1335.0	1356.4	1382.0	1400.4	1414.7	1433.2	1443.4	1452.6
22.5°	1274.6	1295.1	1315.5	1339.0	1362.6	1389.2	1408.6	1427.0	1445.4	1454.6	1461.8
25°	1272.6	1294.0	1316.5	1343.1	1368.7	1396.3	1418.8	1436.2	1453.6	1462.8	1469.0
27.5°	1272.6	1295.1	1319.6	1346.2	1373.8	1404.5	1426.0	1442.4	1457.7	1465.9	1467.9
30°	1271.5	1295.1	1318.6	1348.2	1377.9	1409.6	1433.2	1448.5	1461.8	1466.9	1464.9
32.5°	1273.6	1298.1	1323.7	1353.4	1384.1	1414.7	1439.3	1456.7	1463.8	1462.8	1461.8
35°	1283.8	1306.3	1336.0	1365.6	1397.4	1426.0	1449.5	1461.8	1467.9	1465.9	1460.8
37.5°	1311.4	1333.9	1363.6	1396.3	1420.9	1453.6	1475.1	1484.3	1485.3	1479.2	1466.9
40°	1368.7	1391.2	1417.8	1453.6	1483.3	1505.8	1526.2	1536.5	1530.3	1519.1	1505.8
42.5°	1459.8	1488.4	1520.1	1548.7	1583.5	1614.2	1619.3	1625.5	1615.2	1593.8	1577.4
45°	1606.0	1623.4	1664.3	1685.8	1730.8	1746.2	1757.4	1760.5	1738.0	1720.6	1692.0
47.5°	1816.8	1850.5	1879.2	1899.6	1932.4	1952.8	1975.3	1965.1	1947.7	1918.0	1880.2
50°	2148.2	2169.7	2206.5	2243.3	2278.1	2292.4	2292.4	2282.2	2271.0	2213.7	2167.6
52.5°	2555.3	2557.4	2610.6	2654.6	2684.2	2662.7	2688.3	2662.7	2655.6	2615.7	2577.8
55°	3026.9	3007.5	3071.9	3110.8	3137.4	3163.0	3157.8	3154.8	3128.2	3083.2	3037.1
57.5°	3475.0	3531.2	3561.9	3619.2	3632.5	3649.9	3642.7	3632.5	3617.2	3591.6	3571.1
60°	4121.5	4159.3	4186.9	4198.2	4236.0	4241.2	4266.7	4224.8	4235.0	4205.4	4140.9
62.5°	5001.2	4960.3	4981.8	4981.8	4970.5	4930.6	4952.1	4968.5	4940.9	4916.3	4906.1
65°	5986.3	5854.3	5727.5	5706.0	5647.7	5634.4	5618.0	5577.1	5559.7	5516.8	5482.0
66°	6280.9	6076.3	5956.6	5883.0	5812.4	5797.1	5774.6	5731.6	5696.8	5636.5	5578.2
67.5°	6611.3	6347.4	6167.4	6063.0	5976.1	5918.8	5873.8	5812.4	5757.2	5667.1	5574.1
70°	6589.8	6372.0	6155.1	5996.5	5865.6	5748.0	5678.4	5546.4	5433.9	5305.0	5198.6
72.5°	5537.2	5498.4	5372.5	5283.5	5122.9	5060.5	4876.4	4792.5	4637.0	4470.3	4419.1
75°	3849.4	3696.9	3632.5	3596.7	3526.1	3331.8	3204.9	3232.5	3050.4	2887.8	2794.7
77.5°	1682.8	1713.4	1535.4	1455.7	1394.3	1288.9	1190.7	1123.2	1084.3	1058.8	943.2
80°	465.4	406.1	401.0	372.4	366.2	326.3	331.4	302.8	283.4	279.3	270.1
82.5°	203.6	199.5	193.3	190.3	187.2	183.1	178.0	177.0	170.8	165.7	166.7
85°	135.0	134.0	130.9	127.9	122.8	115.6	110.5	106.4	107.4	102.3	101.3
87.5°	78.8	76.7	75.7	71.6	70.6	64.4	65.5	60.4	59.3	58.3	55.2
90°	11.3	12.3	15.3	14.3	10.2	19.4	16.4	14.3	15.3	12.3	12.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226879  
 CATALOG NUMBER: IST-AF-1200-LED-E1-SL2

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P226879  
 NUMBER: IST-AF-1200-LED-E1-SL2

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	110°	0.0
1435.2	1437.2	1438.3	1437.2	1439.3	1438.3	1439.3	1438.3	1433.2	1432.1	1431.1	112.5°	0.0
1437.2	1441.3	1442.4	1443.4	1441.3	1443.4	1439.3	1422.9	1404.5	1384.1	1367.7	115°	0.0
1439.3	1444.4	1447.5	1447.5	1448.5	1446.5	1431.1	1395.3	1352.3	1309.4	1276.6	117.5°	0.0
1438.3	1445.4	1448.5	1449.5	1449.5	1445.4	1408.6	1351.3	1285.8	1220.4	1153.9	120°	0.0
1435.2	1441.3	1446.5	1446.5	1447.5	1433.2	1375.9	1294.0	1200.9	1102.7	1013.7	122.5°	0.0
1441.3	1447.5	1447.5	1447.5	1446.5	1421.9	1341.1	1222.4	1097.6	964.6	832.7	125°	0.0
1450.5	1453.6	1451.6	1451.6	1447.5	1410.6	1302.2	1151.8	988.2	812.2	628.1	127.5°	0.0
1458.7	1460.8	1459.8	1454.6	1449.5	1398.4	1262.3	1077.2	857.2	628.1	445.0	130°	0.0
1466.9	1469.0	1463.8	1455.7	1448.5	1382.0	1214.2	982.0	708.9	429.6	294.6	132.5°	0.0
1467.9	1470.0	1460.8	1449.5	1439.3	1357.5	1155.9	880.8	546.3	278.2	230.2	135°	0.0
1466.9	1464.9	1449.5	1435.2	1423.9	1327.8	1091.5	754.9	364.2	209.7	200.5	137.5°	0.0
1459.8	1450.5	1438.3	1421.9	1405.5	1295.1	1027.0	614.8	230.2	182.1	182.1	140°	0.0
1449.5	1440.3	1425.0	1403.5	1385.1	1263.3	953.4	471.6	184.1	167.8	169.8	142.5°	0.0
1445.4	1435.2	1412.7	1390.2	1366.7	1234.7	875.6	317.1	165.7	158.6	159.6	145°	0.0
1453.6	1436.2	1413.7	1388.1	1360.5	1210.2	794.8	221.0	156.5	148.3	150.4	147.5°	0.0
1481.2	1464.9	1438.3	1405.5	1375.9	1195.8	708.9	183.1	147.3	140.1	140.1	150°	0.0
1547.7	1526.2	1490.4	1451.6	1415.8	1205.0	632.2	166.7	140.1	133.0	133.0	152.5°	0.0
1655.1	1629.6	1587.6	1543.6	1496.6	1250.0	545.2	160.6	135.0	124.8	122.8	155°	0.0
1839.3	1805.5	1750.3	1698.1	1641.8	1327.8	457.3	156.5	128.9	119.7	115.6	157.5°	0.0
2128.8	2078.6	2013.2	1944.6	1876.1	1470.0	387.7	152.4	124.8	115.6	111.5	160°	0.0
2501.1	2467.4	2385.5	2295.5	2213.7	1753.3	347.8	149.4	121.7	110.5	107.4	162.5°	0.0
2975.8	2920.5	2856.1	2775.3	2678.1	2120.6	343.7	148.3	118.7	106.4	104.3	165°	0.0
3477.0	3455.5	3346.1	3295.9	3190.6	2609.5	418.4	150.4	116.6	103.3	100.2	167.5°	0.0
4048.8	4057.0	3954.7	3899.5	3812.5	3229.5	665.9	156.5	116.6	100.2	97.2	170°	0.0
4796.6	4809.9	4689.2	4623.7	4550.1	3924.0	1046.5	166.7	119.7	97.2	94.1	172.5°	0.0
5409.4	5337.8	5260.0	5145.4	5052.4	4311.7	1007.6	185.2	123.8	94.1	91.0	175°	0.0
5472.8	5421.6	5323.4	5199.7	5086.1	4313.8	879.7	191.3	124.8	93.1	90.0	177.5°	0.0
5464.6	5373.6	5262.1	5157.7	5046.2	4203.3	680.3	199.5	127.9	91.0	88.0	180°	0.0
5086.1	4958.2	4849.8	4705.6	4589.0	3761.4	418.4	198.5	123.8	84.9	82.9		
4194.1	4128.6	3999.7	3884.1	3762.4	3044.3	286.4	177.0	109.5	76.7	77.7		
2712.9	2638.2	2507.3	2441.8	2373.2	1947.7	223.0	144.2	93.1	68.5	71.6		
905.3	875.6	827.6	854.2	814.3	759.0	163.7	109.5	74.7	59.3	63.4		
271.1	264.9	274.2	257.8	273.1	231.2	107.4	76.7	57.3	51.1	56.3		
160.6	158.6	158.6	158.6	154.5	144.2	70.6	53.2	44.0	43.0	47.1		
98.2	96.2	97.2	96.2	98.2	88.0	48.1	36.8	32.7	31.7	37.8		
56.3	56.3	57.3	55.2	56.3	54.2	33.8	23.5	21.5	20.5	27.6		
13.3	13.3	10.2	9.2	10.2	14.3	9.2	7.2	6.1	5.1	9.2		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226879  
 IST-AF-1200-LED-E1-SL2

REPORT NUMBER: P226879  
 CATALOG NUMBER: IST-AF-12

**TION (continued):**

**CANDELA DISTRIBUTION (con**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	1433.2	1433.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	1422.9	1415.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	1342.1	1322.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	1225.5	1203.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	1092.5	1058.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	922.7	856.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	726.3	637.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	500.2	428.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	350.9	324.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	271.1	272.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	225.0	235.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	198.5	208.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	182.1	191.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	170.8	174.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	157.5	159.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	146.3	146.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	136.1	135.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	126.8	125.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	117.6	118.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	112.5	113.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	107.4	108.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	103.3	103.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	99.2	98.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	96.2	94.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	93.1	91.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	91.0	88.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	89.0	87.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	88.0	85.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	87.0	84.9
										70°	82.9	80.8
										72.5°	76.7	75.7
										75°	70.6	68.5
										77.5°	62.4	61.4
										80°	53.2	52.2
										82.5°	45.0	43.0
										85°	35.8	33.8
										87.5°	24.6	22.5
										90°	6.1	7.2
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P226879

CATALOG NUMBER: IST-AF-1200-LED-E1

00-LED-E1-SL2

**tinued):**

175°	180°
1433.2	1433.2
1409.6	1418.8
1316.5	1313.5
1184.6	1185.6
1025.0	1027.0
818.4	806.1
586.2	591.3
408.2	407.1
327.3	329.4
280.3	280.3
249.6	249.6
219.9	221.0
199.5	201.5
181.1	182.1
162.6	163.7
147.3	147.3
137.1	138.1
129.9	129.9
122.8	122.8
116.6	118.7
110.5	111.5
104.3	105.4
98.2	98.2
93.1	93.1
89.0	88.0
85.9	83.9
82.9	81.8
81.8	80.8
80.8	79.8
78.8	77.7
75.7	74.7
69.6	67.5
63.4	61.4
58.3	55.2
49.1	47.1
35.8	33.8
21.5	21.5
5.1	5.1
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

