

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: P227137

Luminaire Tested: **IST-AF-800-LED-E1-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-800-LED-E1-SL4  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

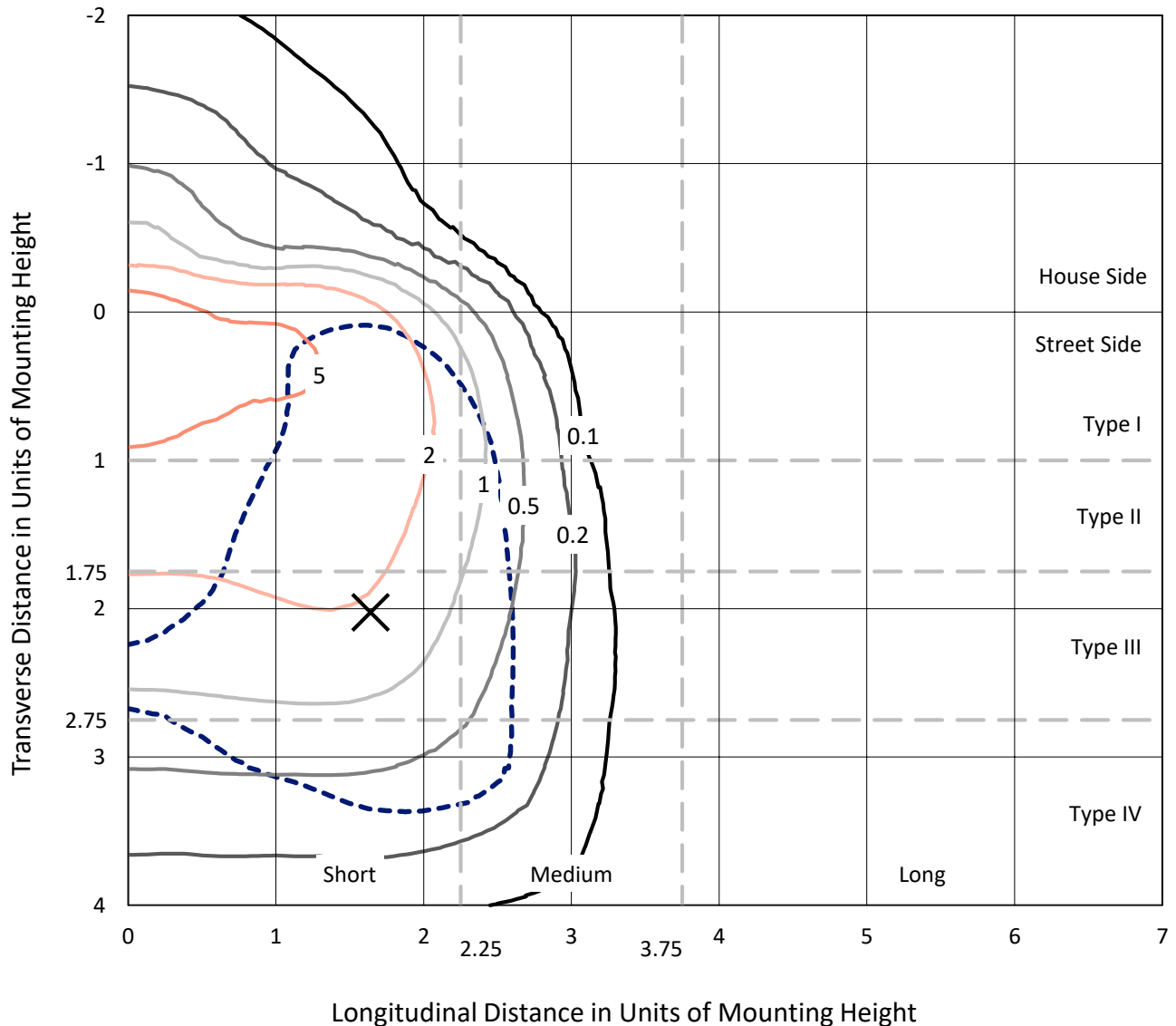
Lumens per Lamp: N/A  
Luminaire Lumens: 4686.2 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U1 - G2  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input 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



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### Iso-Footcandle Lines of Horizontal Illumination

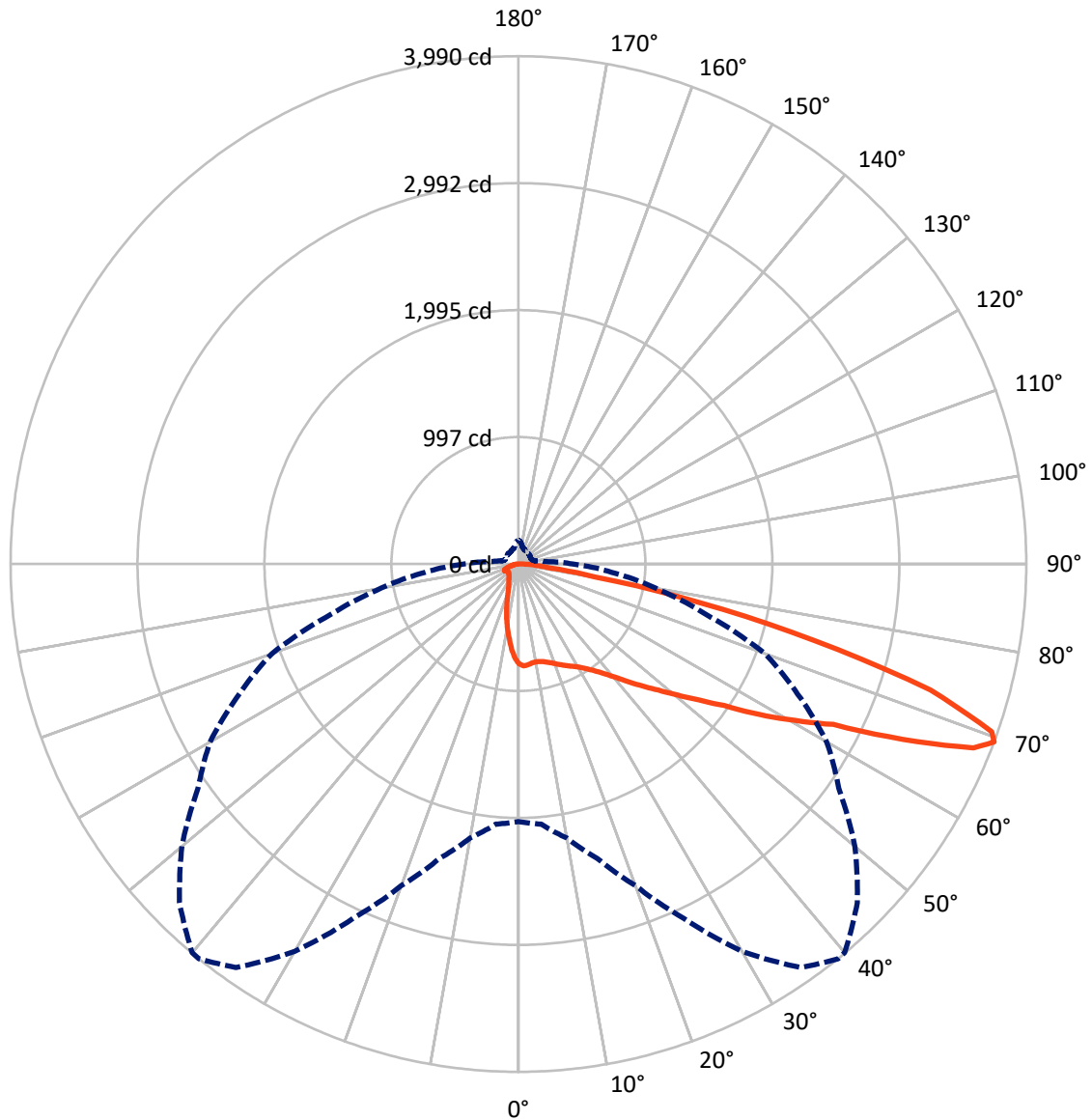
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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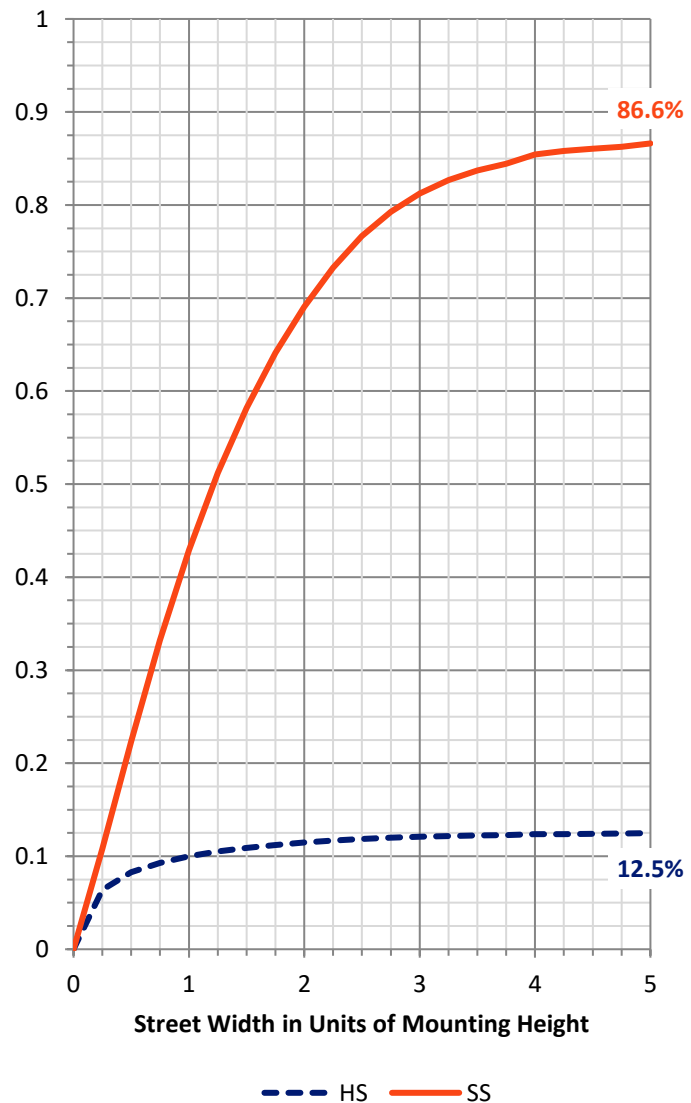
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	592.9	0.1	593.1
	% Fixture	12.7	0.0	12.7
<b>Street Side</b>	Lumens	4092.0	1.2	4093.1
	% Fixture	87.3	0.0	87.3
<b>Total</b>	Lumens	4684.9	1.3	4686.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	1.4
10°-20°	170.8	3.6
20°-30°	265.9	5.7
30°-40°	401.9	8.6
40°-50°	643.1	13.7
50°-60°	1010.7	21.6
60°-70°	1360.9	29.0
70°-80°	675.1	14.4
80°-90°	88.7	1.9
90°-100°	1.3	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°	4684.9	100.0
0°-180°	4686.2	100.0

**Coefficient of Utilization**



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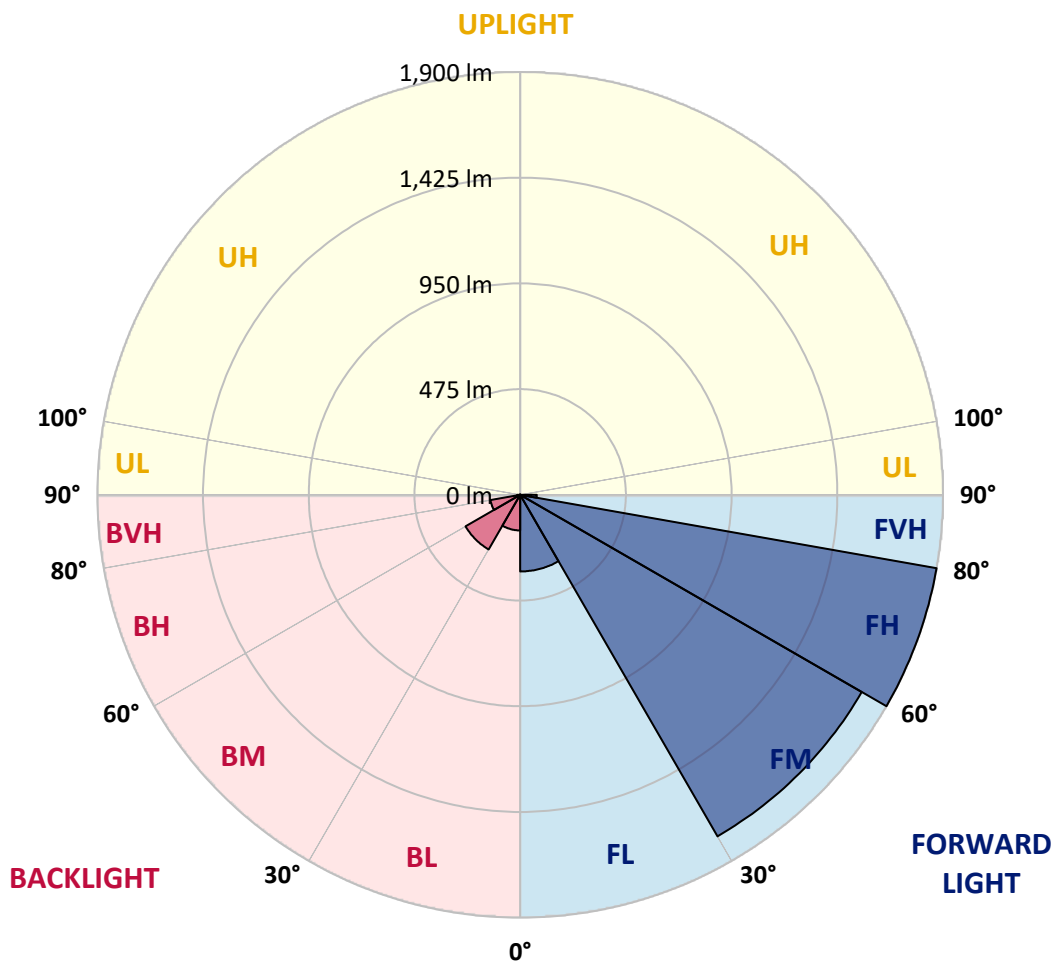
CATALOG NUMBER: IST-AF-800-LED-E1-SL4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.5	7.4			
FM	(30°-60°)	1772.4	37.8			
FH	(60°-80°)	1900.3	40.6			G2/5000
FVH	(80°-90°)	74.7	1.6			G1/100
BL	(0°-30°)	160.0	3.4	B1/500		
BM	(30°-60°)	283.3	6.0	B1/1000		
BH	(60°-80°)	135.7	2.9	B1/500		G1/500
BVH	(80°-90°)	14.0	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	0.1	0.0		U1/10	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	803.9	804.7	804.7	805.5	802.4	802.4	803.1	800.2	801.6	800.9	797.1
5°	805.5	806.2	805.5	806.2	802.4	800.9	797.8	794.0	795.5	794.8	789.4
7.5°	801.6	802.4	800.9	801.6	797.1	794.0	789.4	786.4	784.1	783.4	776.5
10°	793.3	795.5	792.5	794.8	790.9	788.0	785.6	782.7	781.1	780.3	772.7
12.5°	781.1	782.7	783.4	786.4	786.4	787.2	787.2	784.9	785.6	784.9	778.8
15°	769.7	775.0	780.3	783.4	789.4	793.3	796.3	795.5	797.8	797.1	793.3
17.5°	769.7	774.3	783.4	793.3	804.7	810.0	814.6	814.6	815.3	813.8	807.7
20°	772.7	781.1	796.3	813.0	826.7	837.4	840.5	839.6	836.6	836.6	825.9
22.5°	797.8	803.1	819.9	838.1	857.1	867.8	868.6	866.2	860.2	858.7	845.8
25°	833.6	839.6	854.9	878.4	892.9	901.2	899.0	891.4	885.3	879.9	866.2
27.5°	889.0	893.6	908.9	924.8	933.2	936.2	927.1	916.5	909.6	907.4	889.0
30°	946.1	952.3	964.3	974.3	981.1	972.0	957.6	945.4	939.3	937.7	921.1
32.5°	1016.1	1016.9	1025.2	1027.6	1028.3	1013.0	993.3	981.9	979.6	976.5	963.6
35°	1080.0	1083.8	1082.3	1081.5	1074.7	1055.7	1038.9	1032.1	1029.8	1029.0	1018.3
37.5°	1137.0	1143.1	1139.4	1132.5	1124.1	1108.9	1091.4	1083.8	1091.4	1086.9	1089.1
40°	1192.6	1192.6	1188.0	1184.2	1174.3	1159.8	1153.8	1154.5	1166.7	1169.7	1172.8
42.5°	1240.4	1239.7	1235.1	1232.1	1230.6	1227.5	1224.5	1239.0	1262.5	1267.1	1274.0
45°	1292.9	1292.2	1274.7	1280.7	1291.5	1293.7	1304.4	1337.8	1366.8	1369.0	1383.4
47.5°	1344.0	1337.8	1321.0	1327.2	1357.6	1373.5	1391.0	1438.2	1478.6	1486.9	1527.2
50°	1397.1	1391.0	1372.8	1384.3	1426.8	1456.5	1497.5	1563.0	1618.5	1629.9	1682.3
52.5°	1452.7	1451.9	1437.5	1454.9	1507.4	1567.5	1632.1	1706.0	1773.6	1788.1	1865.7
55°	1519.6	1515.8	1509.7	1531.1	1605.5	1686.1	1787.3	1887.8	1961.5	1987.3	2065.6
57.5°	1594.9	1593.3	1594.2	1638.3	1728.0	1850.4	1974.4	2109.8	2231.5	2249.8	2322.7
60°	1660.2	1663.3	1680.8	1750.1	1862.6	2028.4	2202.6	2385.8	2493.9	2512.9	2584.4
62.5°	1740.1	1757.6	1796.4	1883.9	2016.2	2217.0	2442.9	2636.9	2776.1	2814.9	2950.2
65°	1931.8	1945.6	2017.8	2123.4	2292.3	2549.4	2808.7	3090.9	3320.6	3355.6	3471.9
67.5°	2071.8	2106.8	2220.1	2392.7	2636.9	2965.4	3321.3	3662.9	3856.8	3872.8	3791.4
69°	2023.1	2051.9	2185.8	2394.2	2688.5	3071.1	3513.7	3870.4	3989.9	3986.8	3765.5
70°	1948.5	1975.2	2122.7	2325.1	2645.2	3058.9	3516.8	3872.0	3944.3	3916.9	3663.6
72.5°	1632.1	1655.7	1794.2	2005.6	2315.9	2726.6	3157.8	3400.5	3385.3	3362.4	2944.2
75°	1019.2	1017.6	1138.5	1261.0	1502.1	1917.3	2238.3	2433.0	2401.9	2384.4	1890.0
77.5°	381.0	407.6	451.7	583.4	694.4	918.7	1178.1	1394.9	1454.9	1378.1	1017.6
80°	198.6	213.0	241.8	288.3	331.6	379.5	456.3	587.2	607.7	566.6	410.7
82.5°	156.7	174.2	203.1	242.6	273.0	254.8	240.3	248.7	247.1	235.8	209.2
85°	118.7	139.2	186.4	226.7	270.0	228.1	181.8	159.0	141.5	142.2	151.4
87.5°	59.3	76.8	146.8	197.7	235.0	151.4	118.7	92.1	76.8	73.8	98.9
90°	18.2	18.2	29.7	38.8	53.2	26.6	25.9	19.7	14.4	14.4	22.8
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



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
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





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	794.0	794.0	792.5	791.8	789.4	786.4	784.1	780.3	778.1	774.3	769.7
5°	784.1	781.1	779.6	776.5	771.9	768.1	763.6	758.3	752.2	744.6	736.2
7.5°	771.2	766.6	761.3	759.7	754.4	749.9	744.6	736.9	728.6	714.9	704.3
10°	765.9	761.3	756.8	753.7	746.9	741.5	735.5	725.6	714.9	696.6	676.9
12.5°	771.2	766.6	762.1	756.8	750.6	744.6	736.2	724.0	709.6	686.0	661.6
15°	784.1	779.6	771.9	766.6	758.3	753.0	741.5	727.8	706.6	677.7	645.7
17.5°	798.6	791.8	784.9	776.5	769.0	762.1	749.9	732.4	705.8	671.6	630.5
20°	812.3	804.7	794.0	788.0	780.3	770.5	757.5	736.2	704.3	659.4	614.5
22.5°	828.3	818.4	806.9	800.2	794.0	785.6	770.5	743.1	704.3	652.5	596.3
25°	848.7	835.9	824.4	817.6	813.8	807.7	789.4	759.0	709.6	648.8	581.0
27.5°	873.1	856.4	846.5	841.9	841.2	836.6	818.4	780.3	721.8	648.8	566.6
30°	902.0	887.6	874.6	874.6	883.7	880.8	860.2	813.0	740.8	651.0	556.0
32.5°	942.3	927.9	920.2	927.9	937.7	940.8	917.3	859.4	771.9	661.6	545.3
35°	1001.7	992.6	987.2	998.6	1018.3	1026.0	997.1	928.6	817.6	682.2	539.2
37.5°	1080.0	1073.2	1066.3	1086.1	1123.3	1138.5	1096.7	1008.5	883.0	716.5	536.2
40°	1169.7	1170.5	1178.1	1217.6	1253.4	1285.3	1238.2	1129.4	972.7	765.2	539.2
42.5°	1276.2	1284.6	1310.4	1365.2	1434.4	1459.5	1413.9	1275.4	1084.5	823.7	546.9
45°	1408.5	1430.6	1474.7	1556.1	1639.8	1678.6	1613.9	1459.5	1225.3	917.3	568.1
47.5°	1549.3	1598.0	1672.4	1771.3	1868.7	1893.8	1813.9	1626.1	1362.9	1000.1	600.9
50°	1729.5	1788.8	1863.4	1982.0	2085.5	2100.6	1995.0	1780.4	1483.1	1072.4	632.0
52.5°	1897.6	1978.2	2073.3	2210.9	2315.9	2296.9	2160.0	1918.1	1578.1	1121.9	649.5
55°	2127.3	2210.9	2318.2	2438.3	2542.5	2496.9	2309.8	2035.3	1654.2	1158.3	654.8
57.5°	2389.7	2453.5	2558.5	2681.8	2750.2	2671.8	2457.3	2149.3	1726.4	1159.1	613.1
60°	2647.5	2722.1	2837.7	2958.6	2996.6	2861.2	2560.0	2166.8	1654.9	1034.4	490.6
62.5°	3029.3	3104.6	3163.2	3182.9	3114.5	2842.2	2440.7	1982.0	1426.8	816.1	347.6
65°	3455.9	3370.8	3257.5	3151.0	2964.6	2550.9	2104.4	1628.3	1107.3	545.3	239.6
67.5°	3567.7	3308.4	3062.0	2824.7	2477.2	2031.5	1587.3	1145.4	710.3	310.3	162.8
69°	3451.4	3072.6	2798.1	2421.6	2062.7	1520.3	1093.6	734.0	424.4	216.0	136.2
70°	3238.5	2844.5	2472.6	2069.4	1598.0	1161.4	727.1	480.7	276.8	157.4	122.4
72.5°	2443.6	1953.8	1505.9	978.0	596.3	330.8	232.7	166.5	131.6	115.6	105.0
75°	1413.1	940.8	616.0	328.6	194.7	144.5	126.2	112.5	104.2	100.4	91.2
77.5°	596.3	372.7	252.5	184.8	130.8	111.8	97.4	89.7	89.0	86.7	78.4
80°	271.5	232.7	198.6	139.2	99.6	85.2	74.6	73.0	74.6	72.2	63.9
82.5°	201.5	198.6	165.8	107.2	76.0	57.1	46.4	48.7	54.7	59.3	51.8
85°	168.1	168.1	139.2	79.9	50.2	36.5	35.7	40.3	45.6	49.4	41.8
87.5°	154.4	148.3	79.9	41.0	28.9	23.5	22.1	19.7	19.7	34.3	28.9
90°	15.2	6.9	3.8	3.1	3.8	3.1	4.6	3.8	3.8	3.8	3.8
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: P227137

CATALOG NUMBER: IST-AF-800-LED-E1-SL4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
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: P227137

CATALOG NUMBER: IST-AF-800-LED-E1-SL4

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	765.9	762.8	755.2	753.7	751.5	748.4	747.7	743.8	736.2	734.7	735.5
5°	730.9	718.7	710.3	703.5	698.2	684.5	679.1	673.1	662.5	659.4	654.8
7.5°	689.8	675.4	658.7	646.5	632.0	617.6	606.2	591.7	580.3	573.5	561.3
10°	657.9	638.1	616.0	591.7	572.8	550.7	536.2	519.5	501.2	484.5	472.3
12.5°	633.5	606.2	574.2	545.3	517.9	494.4	468.5	444.9	422.1	399.3	379.5
15°	613.8	579.5	539.2	502.7	469.2	434.2	405.4	372.7	343.8	324.0	298.9
17.5°	592.5	548.4	500.4	457.9	414.5	378.0	341.5	307.3	279.9	254.0	233.5
20°	566.6	513.4	461.7	412.2	362.7	321.0	283.7	251.0	224.3	203.9	188.6
22.5°	537.7	475.4	415.2	361.3	311.8	270.8	235.8	211.4	191.7	180.2	175.6
25°	509.5	438.1	370.4	311.1	261.7	226.7	203.1	182.5	172.7	168.1	168.1
27.5°	483.8	400.1	324.8	267.0	219.0	191.7	173.4	165.0	160.5	160.5	162.8
30°	459.4	362.0	281.4	222.8	184.8	164.3	154.4	151.4	152.1	155.2	158.1
32.5°	431.3	325.5	244.2	191.7	160.5	146.8	139.2	139.9	143.7	149.0	154.4
35°	401.6	286.7	211.4	168.1	143.7	133.1	128.6	129.3	134.6	141.5	146.8
37.5°	374.9	255.5	186.4	149.9	131.6	124.7	120.9	121.7	125.5	133.9	140.7
40°	348.3	228.9	165.8	139.2	124.7	117.8	115.6	114.9	117.8	125.5	133.9
42.5°	325.5	206.1	153.6	131.6	120.2	114.1	111.1	111.1	112.5	118.7	127.1
45°	311.8	192.4	145.3	126.2	116.4	111.1	108.0	106.5	108.7	112.5	120.2
47.5°	311.8	185.6	139.9	122.4	113.3	108.7	105.0	104.2	105.0	108.7	116.4
50°	322.4	187.1	139.2	120.9	111.8	105.7	101.9	101.9	103.4	108.7	114.9
52.5°	331.6	190.2	141.5	122.4	111.8	104.2	99.6	98.9	101.2	106.5	111.8
55°	330.1	190.2	143.7	124.7	114.1	105.0	98.9	98.1	99.6	105.0	110.3
57.5°	295.1	178.7	141.5	126.2	117.1	108.7	102.7	100.4	101.9	106.5	111.1
60°	238.9	159.0	135.3	126.2	121.7	115.6	109.6	108.0	108.7	113.3	118.7
62.5°	187.1	141.5	127.8	125.5	124.0	120.9	118.7	117.1	117.1	120.9	125.5
65°	152.1	127.8	121.7	122.4	124.0	123.2	122.4	121.7	121.7	124.0	128.6
67.5°	127.1	114.9	113.3	115.6	117.1	117.8	118.7	117.8	118.7	120.9	126.2
69°	115.6	108.0	106.5	108.0	111.1	111.8	113.3	112.5	113.3	115.6	120.9
70°	108.7	102.7	101.2	103.4	105.7	106.5	108.0	107.2	108.0	110.3	115.6
72.5°	94.3	87.5	85.2	86.7	89.0	89.0	91.2	92.1	90.5	91.2	95.0
75°	80.6	73.0	69.3	70.0	70.0	70.0	71.5	71.5	70.0	69.3	70.0
77.5°	67.7	59.3	54.7	54.7	54.7	54.0	51.8	52.5	53.2	52.5	53.2
80°	53.2	46.4	41.8	41.8	41.8	40.3	39.6	39.6	41.0	42.6	41.8
82.5°	41.0	34.3	31.9	31.2	31.2	29.7	29.7	31.2	30.4	31.2	32.7
85°	29.7	24.3	22.1	22.8	22.1	20.6	21.3	23.5	23.5	22.8	24.3
87.5°	18.2	15.2	14.4	15.2	13.7	11.5	10.6	11.5	12.9	12.2	13.7
90°	2.3	1.5	1.5	1.5	2.3	1.5	1.5	1.5	2.3	2.3	1.5
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: P227137  
 CATALOG NUMBER: IST-AF-800-LED-E1-SL4

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
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	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												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: P227137  
 NUMBER: IST-AF-800-LED-E1-SL4

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
784.9	784.9	784.9	784.9	784.9
730.2	732.4	722.5	727.1	724.0
650.3	646.5	645.7	643.4	638.8
556.7	553.7	544.5	547.6	540.7
460.1	459.4	442.6	443.4	435.1
371.1	357.4	350.7	340.7	346.1
287.4	276.1	261.7	257.8	263.1
216.8	205.3	198.6	192.4	190.2
179.5	172.7	168.9	166.5	165.0
173.4	171.9	171.1	169.6	168.9
169.6	171.1	171.1	171.1	169.6
165.8	168.9	169.6	168.9	167.4
162.0	164.3	164.3	163.6	161.2
156.7	159.0	159.0	158.1	156.7
150.6	152.1	152.8	152.8	153.6
146.1	147.5	149.0	150.6	152.8
140.7	143.0	143.7	146.8	149.9
133.9	136.9	138.4	140.7	143.7
127.1	130.8	131.6	134.6	137.7
124.0	127.1	127.1	129.3	131.6
120.2	121.7	120.9	122.4	123.2
116.4	117.8	117.1	118.7	119.4
113.3	114.9	116.4	117.8	118.7
114.9	117.1	117.8	120.2	120.9
121.7	124.7	127.8	130.8	133.1
128.6	132.4	139.2	152.8	158.1
132.4	137.7	153.6	177.2	184.0
130.0	136.9	155.9	181.1	189.3
125.5	130.8	151.4	177.2	184.8
119.4	124.7	145.3	173.4	180.2
96.6	99.6	122.4	149.0	153.6
70.7	73.0	90.5	101.2	100.4
54.7	57.8	63.9	64.7	63.9
43.4	44.9	47.9	47.9	48.7
33.5	34.3	35.7	34.3	33.5
25.1	24.3	23.5	22.8	22.1
14.4	14.4	12.2	10.6	9.9
1.5	2.3	2.3	1.5	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

**CANDELA DISTRIBUTION:**

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

