

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: P227111

Luminaire Tested: **IST-AF-1200-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227111
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-1200-LED-E1-SL4-8030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5028.2 lumens
Efficiency: N/A
Efficacy: 76.2 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

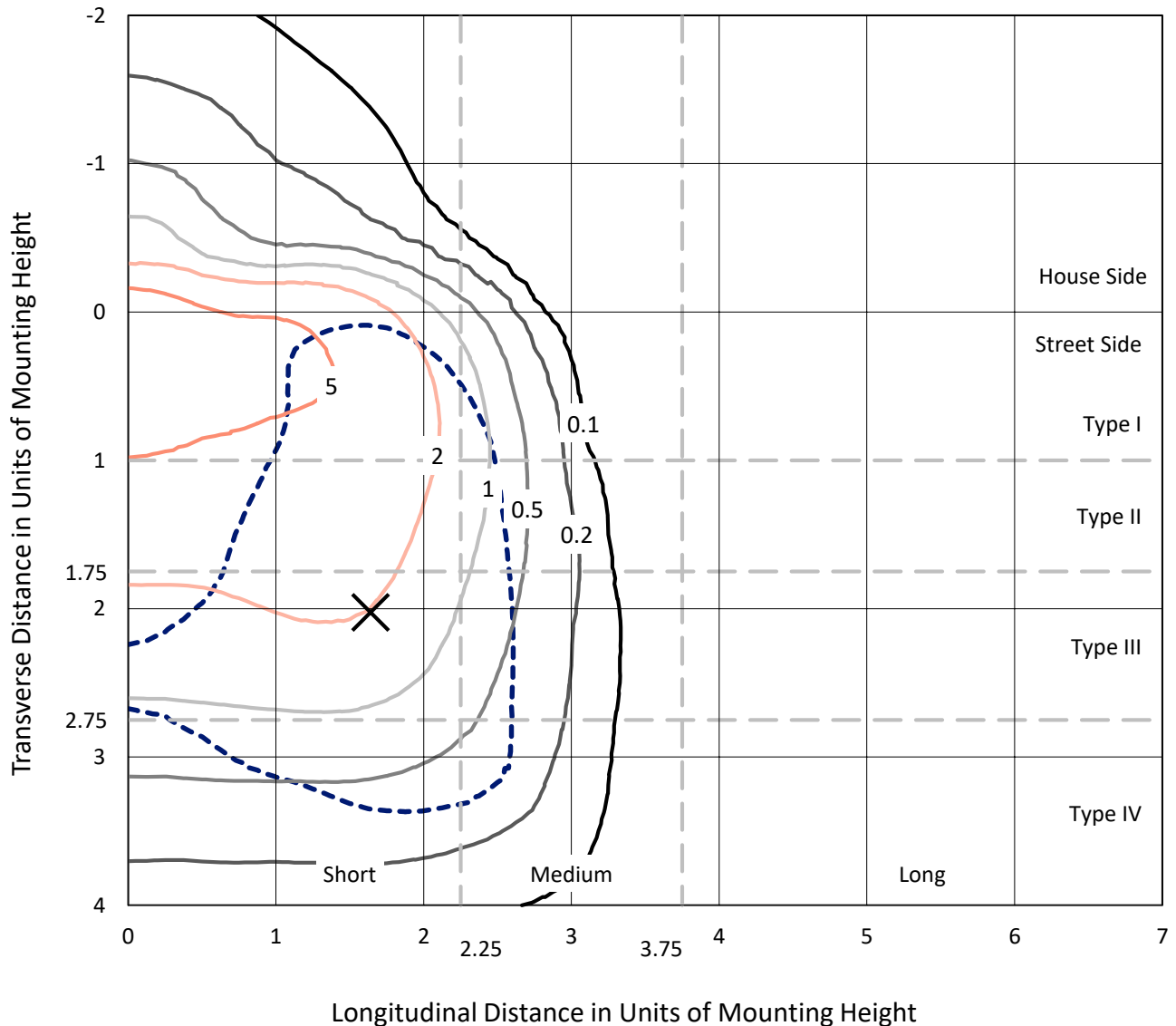
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

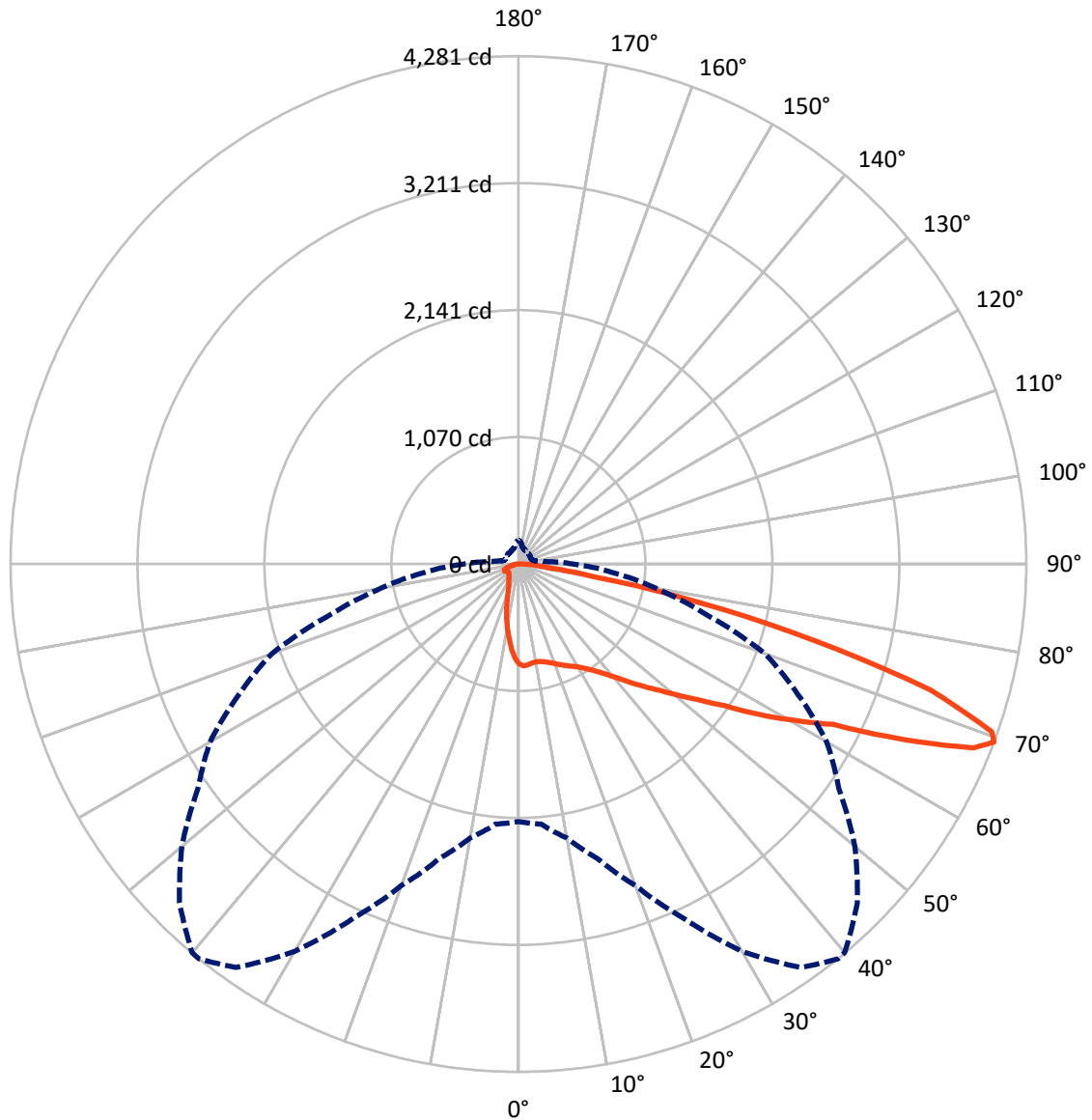
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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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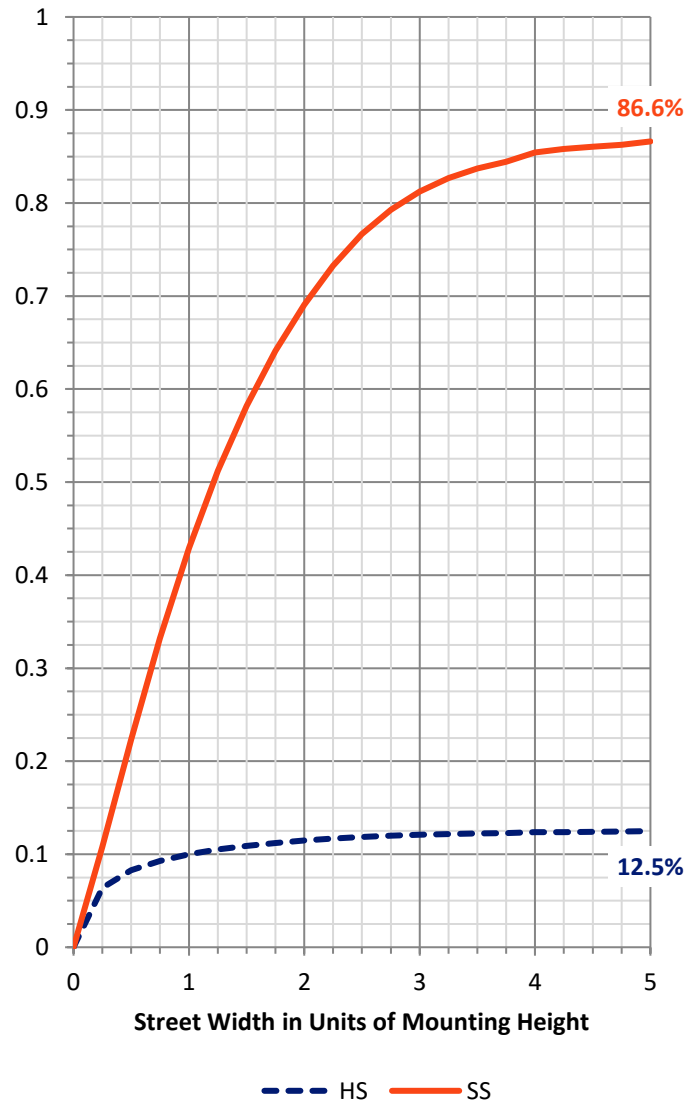
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.2	0.1	636.3
	% Fixture	12.7	0.0	12.7
Street Side	Lumens	4390.6	1.2	4391.9
	% Fixture	87.3	0.0	87.3
Total	Lumens	5026.8	1.4	5028.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	1.4
10°-20°	183.3	3.6
20°-30°	285.3	5.7
30°-40°	431.2	8.6
40°-50°	690.0	13.7
50°-60°	1084.5	21.6
60°-70°	1460.3	29.0
70°-80°	724.3	14.4
80°-90°	95.2	1.9
90°-100°	1.4	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°	5026.8	100.0
0°-180°	5028.2	100.0

Coefficient of Utilization



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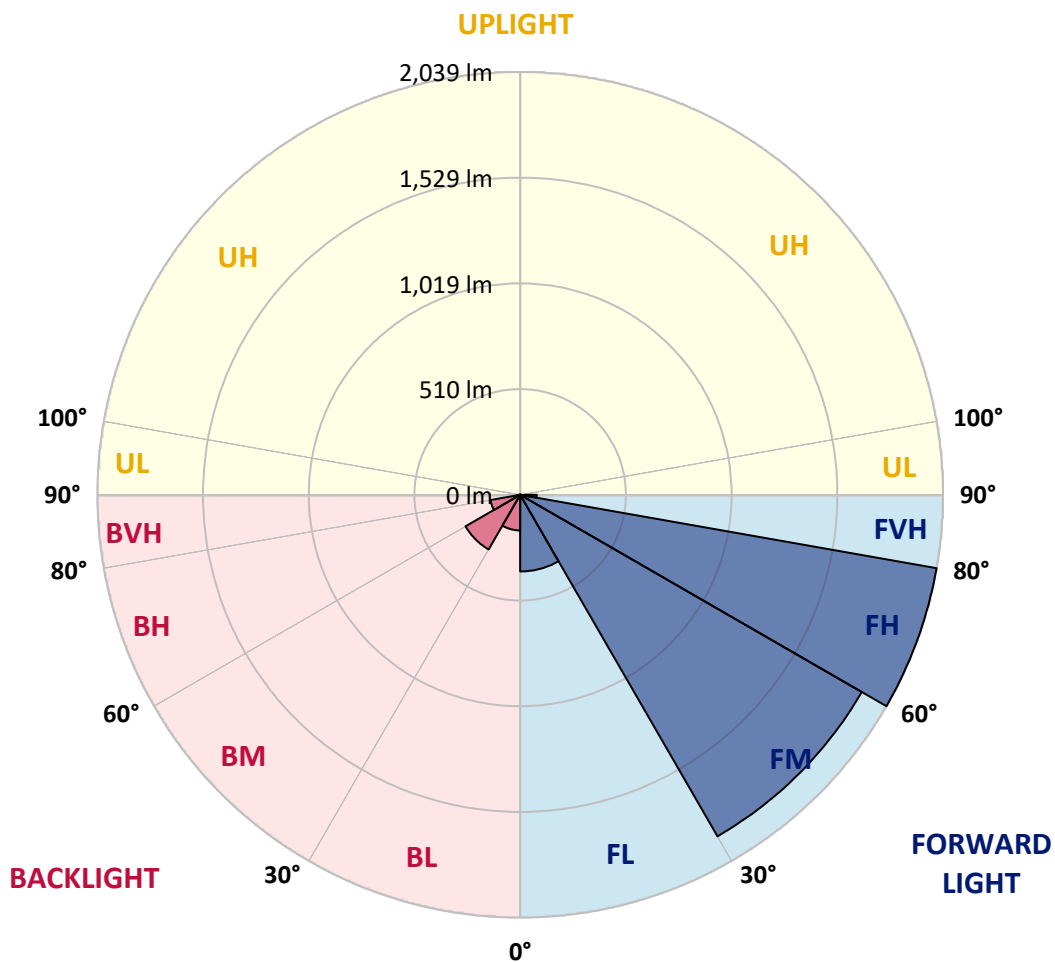
CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.7	7.4			
FM	(30°-60°)	1901.8	37.8			
FH	(60°-80°)	2039.0	40.6			G2/5000
FVH	(80°-90°)	80.2	1.6			G1/100
BL	(0°-30°)	171.6	3.4	B1/500		
BM	(30°-60°)	303.9	6.0	B1/1000		
BH	(60°-80°)	145.6	2.9	B1/500		G1/500
BVH	(80°-90°)	15.0	0.3			G1/100
UL	(90°-100°)	1.4	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°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	862.6	863.4	863.4	864.2	860.9	860.9	861.8	858.5	860.1	859.3	855.2
5°	864.2	865.0	864.2	865.0	860.9	859.3	856.0	852.0	853.6	852.8	847.1
7.5°	860.1	860.9	859.3	860.1	855.2	852.0	847.1	843.8	841.4	840.5	833.2
10°	851.2	853.6	850.3	852.8	848.7	845.4	843.0	839.7	838.1	837.3	829.1
12.5°	838.1	839.7	840.5	843.8	843.8	844.6	844.6	842.2	843.0	842.2	835.6
15°	825.9	831.6	837.3	840.5	847.1	851.2	854.4	853.6	856.0	855.2	851.2
17.5°	825.9	830.8	840.5	851.2	863.4	869.1	874.0	874.0	874.8	873.2	866.7
20°	829.1	838.1	854.4	872.4	887.1	898.5	901.7	900.9	897.7	897.7	886.2
22.5°	856.0	861.8	879.7	899.3	919.7	931.1	931.9	929.5	923.0	921.3	907.5
25°	894.4	900.9	917.3	942.6	958.1	967.0	964.6	956.4	949.9	944.2	929.5
27.5°	954.0	958.9	975.2	992.3	1001.3	1004.6	994.8	983.4	976.0	973.6	954.0
30°	1015.2	1021.7	1034.8	1045.4	1052.7	1042.9	1027.4	1014.4	1007.8	1006.2	988.3
32.5°	1090.3	1091.1	1100.1	1102.5	1103.3	1087.0	1065.8	1053.5	1051.1	1047.8	1034.0
35°	1158.8	1162.9	1161.3	1160.4	1153.1	1132.7	1114.7	1107.4	1104.9	1104.1	1092.7
37.5°	1220.0	1226.5	1222.5	1215.1	1206.1	1189.8	1171.0	1162.9	1171.0	1166.2	1168.6
40°	1279.6	1279.6	1274.7	1270.6	1260.0	1244.5	1238.0	1238.8	1251.8	1255.1	1258.4
42.5°	1331.0	1330.2	1325.3	1322.0	1320.4	1317.1	1313.9	1329.4	1354.7	1359.6	1366.9
45°	1387.3	1386.5	1367.7	1374.2	1385.7	1388.1	1399.5	1435.5	1466.5	1468.9	1484.4
47.5°	1442.0	1435.5	1417.5	1424.0	1456.7	1473.8	1492.6	1543.2	1586.4	1595.4	1638.7
50°	1499.1	1492.6	1473.0	1485.2	1530.9	1562.8	1606.8	1677.0	1736.6	1748.8	1805.1
52.5°	1558.7	1557.9	1542.4	1561.1	1617.4	1681.9	1751.3	1830.4	1903.1	1918.6	2001.8
55°	1630.5	1626.4	1619.9	1642.7	1722.7	1809.2	1917.7	2025.5	2104.6	2132.4	2216.4
57.5°	1711.3	1709.6	1710.5	1757.8	1854.1	1985.5	2118.5	2263.8	2394.3	2413.9	2492.3
60°	1781.5	1784.7	1803.5	1877.8	1998.5	2176.4	2363.3	2560.0	2675.9	2696.3	2773.0
62.5°	1867.1	1885.9	1927.5	2021.4	2163.4	2378.8	2621.2	2829.3	2978.6	3020.2	3165.5
65°	2072.8	2087.5	2165.0	2278.4	2459.6	2735.4	3013.7	3316.5	3562.9	3600.5	3725.3
67.5°	2223.0	2260.5	2382.1	2567.3	2829.3	3181.8	3563.7	3930.2	4138.2	4155.4	4068.1
69°	2170.7	2201.7	2345.4	2569.0	2884.8	3295.3	3770.2	4152.9	4281.1	4277.8	4040.3
70°	2090.7	2119.3	2277.6	2494.7	2838.3	3282.2	3773.5	4154.6	4232.1	4202.7	3931.0
72.5°	1751.3	1776.6	1925.1	2152.0	2484.9	2925.6	3388.3	3648.6	3632.3	3607.8	3159.0
75°	1093.5	1091.9	1221.6	1353.0	1611.7	2057.3	2401.7	2610.6	2577.1	2558.4	2027.9
77.5°	408.8	437.4	484.7	625.9	745.1	985.8	1264.1	1496.7	1561.1	1478.7	1091.9
80°	213.0	228.5	259.5	309.3	355.8	407.2	489.6	630.0	652.0	608.0	440.7
82.5°	168.1	186.9	217.9	260.3	293.0	273.4	257.9	266.9	265.2	253.0	224.4
85°	127.3	149.3	199.9	243.2	289.7	244.8	195.0	170.6	151.8	152.6	162.4
87.5°	63.7	82.4	157.5	212.2	252.2	162.4	127.3	98.7	82.4	79.2	106.1
90°	19.6	19.6	31.8	41.6	57.1	28.6	27.7	21.2	15.5	15.5	24.5
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



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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°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	852.0	852.0	850.3	849.5	847.1	843.8	841.4	837.3	834.8	830.8	825.9
5°	841.4	838.1	836.5	833.2	828.3	824.2	819.3	813.6	807.1	798.9	789.9
7.5°	827.5	822.6	816.9	815.2	809.5	804.6	798.9	790.8	781.8	767.1	755.7
10°	821.8	816.9	812.0	808.7	801.4	795.7	789.1	778.5	767.1	747.5	726.3
12.5°	827.5	822.6	817.7	812.0	805.5	798.9	789.9	776.9	761.4	736.1	710.0
15°	841.4	836.5	828.3	822.6	813.6	807.9	795.7	781.0	758.1	727.1	692.8
17.5°	856.9	849.5	842.2	833.2	825.0	817.7	804.6	785.9	757.3	720.6	676.5
20°	871.6	863.4	852.0	845.4	837.3	826.7	812.8	789.9	755.7	707.5	659.4
22.5°	888.7	878.1	865.8	858.5	852.0	843.0	826.7	797.3	755.7	700.2	639.8
25°	910.7	896.9	884.6	877.3	873.2	866.7	847.1	814.4	761.4	696.1	623.5
27.5°	936.8	918.9	908.3	903.4	902.6	897.7	878.1	837.3	774.4	696.1	608.0
30°	967.8	952.3	938.5	938.5	948.3	945.0	923.0	872.4	794.8	698.5	596.5
32.5°	1011.1	995.6	987.4	995.6	1006.2	1009.5	984.2	922.1	828.3	710.0	585.1
35°	1074.8	1065.0	1059.2	1071.5	1092.7	1100.9	1069.9	996.4	877.3	732.0	578.6
37.5°	1158.8	1151.5	1144.1	1165.3	1205.3	1221.6	1176.8	1082.1	947.4	768.7	575.3
40°	1255.1	1255.9	1264.1	1306.5	1344.9	1379.1	1328.5	1211.9	1043.7	821.0	578.6
42.5°	1369.4	1378.3	1406.1	1464.8	1539.1	1566.0	1517.1	1368.5	1163.7	883.8	586.7
45°	1511.3	1535.0	1582.3	1669.7	1759.4	1801.0	1731.7	1566.0	1314.7	984.2	609.6
47.5°	1662.3	1714.5	1794.5	1900.6	2005.1	2032.0	1946.3	1744.7	1462.4	1073.1	644.7
50°	1855.7	1919.4	1999.4	2126.7	2237.6	2254.0	2140.5	1910.4	1591.3	1150.6	678.1
52.5°	2036.1	2122.6	2224.6	2372.3	2484.9	2464.5	2317.6	2058.1	1693.3	1203.7	696.9
55°	2282.5	2372.3	2487.4	2616.3	2728.1	2679.1	2478.4	2183.8	1774.9	1242.9	702.6
57.5°	2564.1	2632.6	2745.2	2877.4	2950.9	2866.8	2636.7	2306.2	1852.5	1243.7	657.7
60°	2840.7	2920.7	3044.7	3174.5	3215.3	3070.0	2746.9	2325.0	1775.8	1109.8	526.4
62.5°	3250.4	3331.2	3394.0	3415.2	3341.8	3049.6	2618.7	2126.7	1530.9	875.6	372.9
65°	3708.2	3616.8	3495.2	3380.9	3181.0	2737.1	2258.0	1747.2	1188.2	585.1	257.1
67.5°	3828.1	3549.9	3285.5	3030.9	2657.9	2179.7	1703.1	1229.0	762.2	333.0	174.6
69°	3703.3	3296.9	3002.3	2598.3	2213.2	1631.3	1173.5	787.5	455.4	231.8	146.1
70°	3474.8	3052.1	2653.0	2220.5	1714.5	1246.1	780.2	515.8	297.0	168.9	131.4
72.5°	2622.0	2096.5	1615.8	1049.5	639.8	355.0	249.7	178.7	141.2	124.0	112.6
75°	1516.2	1009.5	661.0	352.5	208.9	155.1	135.5	120.8	111.8	107.7	97.9
77.5°	639.8	399.9	270.9	198.3	140.4	120.0	104.5	96.3	95.5	93.0	84.1
80°	291.3	249.7	213.0	149.3	106.9	91.4	80.0	78.3	80.0	77.5	68.5
82.5°	216.3	213.0	177.9	115.1	81.6	61.2	49.8	52.2	58.8	63.7	55.5
85°	180.3	180.3	149.3	85.7	53.9	39.2	38.4	43.3	49.0	53.0	44.9
87.5°	165.7	159.1	85.7	44.1	31.0	25.3	23.7	21.2	21.2	36.7	31.0
90°	16.3	7.3	4.1	3.3	4.1	3.3	4.9	4.1	4.1	4.1	4.1
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: P227111

CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-8030

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: P227111

CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	821.8	818.5	810.3	808.7	806.3	803.0	802.2	798.1	789.9	788.3	789.1
5°	784.2	771.2	762.2	754.9	749.1	734.5	728.7	722.2	710.8	707.5	702.6
7.5°	740.2	724.7	706.7	693.7	678.1	662.6	650.4	634.9	622.7	615.3	602.3
10°	705.9	684.7	661.0	634.9	614.5	590.8	575.3	557.4	537.8	519.8	506.8
12.5°	679.8	650.4	616.1	585.1	555.7	530.4	502.7	477.4	452.9	428.4	407.2
15°	658.6	621.8	578.6	539.4	503.5	466.0	435.0	399.9	368.9	347.6	320.7
17.5°	635.7	588.4	537.0	491.3	444.8	405.6	366.4	329.7	300.3	272.6	250.5
20°	608.0	550.8	495.3	442.3	389.3	344.4	304.4	269.3	240.7	218.7	202.4
22.5°	577.0	510.0	445.6	387.6	334.6	290.5	253.0	226.9	205.6	193.4	188.5
25°	546.8	470.1	397.4	333.8	280.7	243.2	217.9	195.9	185.2	180.3	180.3
27.5°	519.0	429.2	348.5	286.4	235.0	205.6	186.1	177.1	172.2	172.2	174.6
30°	492.9	388.4	301.9	239.1	198.3	176.3	165.7	162.4	163.2	166.5	169.7
32.5°	462.7	349.3	262.0	205.6	172.2	157.5	149.3	150.2	154.2	159.9	165.7
35°	430.9	307.7	226.9	180.3	154.2	142.8	137.9	138.7	144.4	151.8	157.5
37.5°	402.3	274.2	199.9	160.8	141.2	133.8	129.8	130.6	134.7	143.6	151.0
40°	373.8	245.6	177.9	149.3	133.8	126.5	124.0	123.2	126.5	134.7	143.6
42.5°	349.3	221.2	164.8	141.2	128.9	122.4	119.1	119.1	120.8	127.3	136.3
45°	334.6	206.5	155.9	135.5	124.9	119.1	115.9	114.2	116.7	120.8	128.9
47.5°	334.6	199.1	150.2	131.4	121.6	116.7	112.6	111.8	112.6	116.7	124.9
50°	346.0	200.8	149.3	129.8	120.0	113.4	109.4	109.4	111.0	116.7	123.2
52.5°	355.8	204.0	151.8	131.4	120.0	111.8	106.9	106.1	108.5	114.2	120.0
55°	354.2	204.0	154.2	133.8	122.4	112.6	106.1	105.3	106.9	112.6	118.3
57.5°	316.6	191.8	151.8	135.5	125.7	116.7	110.2	107.7	109.4	114.2	119.1
60°	256.2	170.6	145.3	135.5	130.6	124.0	117.5	115.9	116.7	121.6	127.3
62.5°	200.8	151.8	137.1	134.7	133.0	129.8	127.3	125.7	125.7	129.8	134.7
65°	163.2	137.1	130.6	131.4	133.0	132.2	131.4	130.6	130.6	133.0	137.9
67.5°	136.3	123.2	121.6	124.0	125.7	126.5	127.3	126.5	127.3	129.8	135.5
69°	124.0	115.9	114.2	115.9	119.1	120.0	121.6	120.8	121.6	124.0	129.8
70°	116.7	110.2	108.5	111.0	113.4	114.2	115.9	115.1	115.9	118.3	124.0
72.5°	101.2	93.8	91.4	93.0	95.5	95.5	97.9	98.7	97.1	97.9	102.0
75°	86.5	78.3	74.3	75.1	75.1	75.1	76.7	76.7	75.1	74.3	75.1
77.5°	72.6	63.7	58.8	58.8	58.8	57.9	55.5	56.3	57.1	56.3	57.1
80°	57.1	49.8	44.9	44.9	44.9	43.3	42.4	42.4	44.1	45.7	44.9
82.5°	44.1	36.7	34.3	33.5	33.5	31.8	31.8	33.5	32.6	33.5	35.1
85°	31.8	26.1	23.7	24.5	23.7	22.0	22.8	25.3	25.3	24.5	26.1
87.5°	19.6	16.3	15.5	16.3	14.7	12.2	11.4	12.2	13.9	13.1	14.7
90°	2.4	1.6	1.6	1.6	2.4	1.6	1.6	1.6	2.4	2.4	1.6
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: P227111
 CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-8030

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: P227111
 NUMBER: IST-AF-1200-LED-E1-SL4-8030

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
842.2	842.2	842.2	842.2	842.2
783.4	785.9	775.3	780.2	776.9
697.7	693.7	692.8	690.4	685.5
597.4	594.1	584.3	587.6	580.2
493.7	492.9	474.9	475.8	466.8
398.2	383.5	376.2	365.6	371.3
308.5	296.2	280.7	276.6	282.4
232.6	220.3	213.0	206.5	204.0
192.6	185.2	181.2	178.7	177.1
186.1	184.4	183.6	182.0	181.2
182.0	183.6	183.6	183.6	182.0
177.9	181.2	182.0	181.2	179.5
173.8	176.3	176.3	175.5	173.0
168.1	170.6	170.6	169.7	168.1
161.6	163.2	164.0	164.0	164.8
156.7	158.3	159.9	161.6	164.0
151.0	153.4	154.2	157.5	160.8
143.6	146.9	148.5	151.0	154.2
136.3	140.4	141.2	144.4	147.7
133.0	136.3	136.3	138.7	141.2
128.9	130.6	129.8	131.4	132.2
124.9	126.5	125.7	127.3	128.1
121.6	123.2	124.9	126.5	127.3
123.2	125.7	126.5	128.9	129.8
130.6	133.8	137.1	140.4	142.8
137.9	142.0	149.3	164.0	169.7
142.0	147.7	164.8	190.1	197.5
139.5	146.9	167.3	194.2	203.2
134.7	140.4	162.4	190.1	198.3
128.1	133.8	155.9	186.1	193.4
103.6	106.9	131.4	159.9	164.8
75.9	78.3	97.1	108.5	107.7
58.8	62.0	68.5	69.4	68.5
46.5	48.1	51.4	51.4	52.2
35.9	36.7	38.4	36.7	35.9
26.9	26.1	25.3	24.5	23.7
15.5	15.5	13.1	11.4	10.6
1.6	2.4	2.4	1.6	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	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

