

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: P228136

Luminaire Tested: **ISC-AF-1200-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-1200-LED-E1-SL2-8030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6505.2 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G2

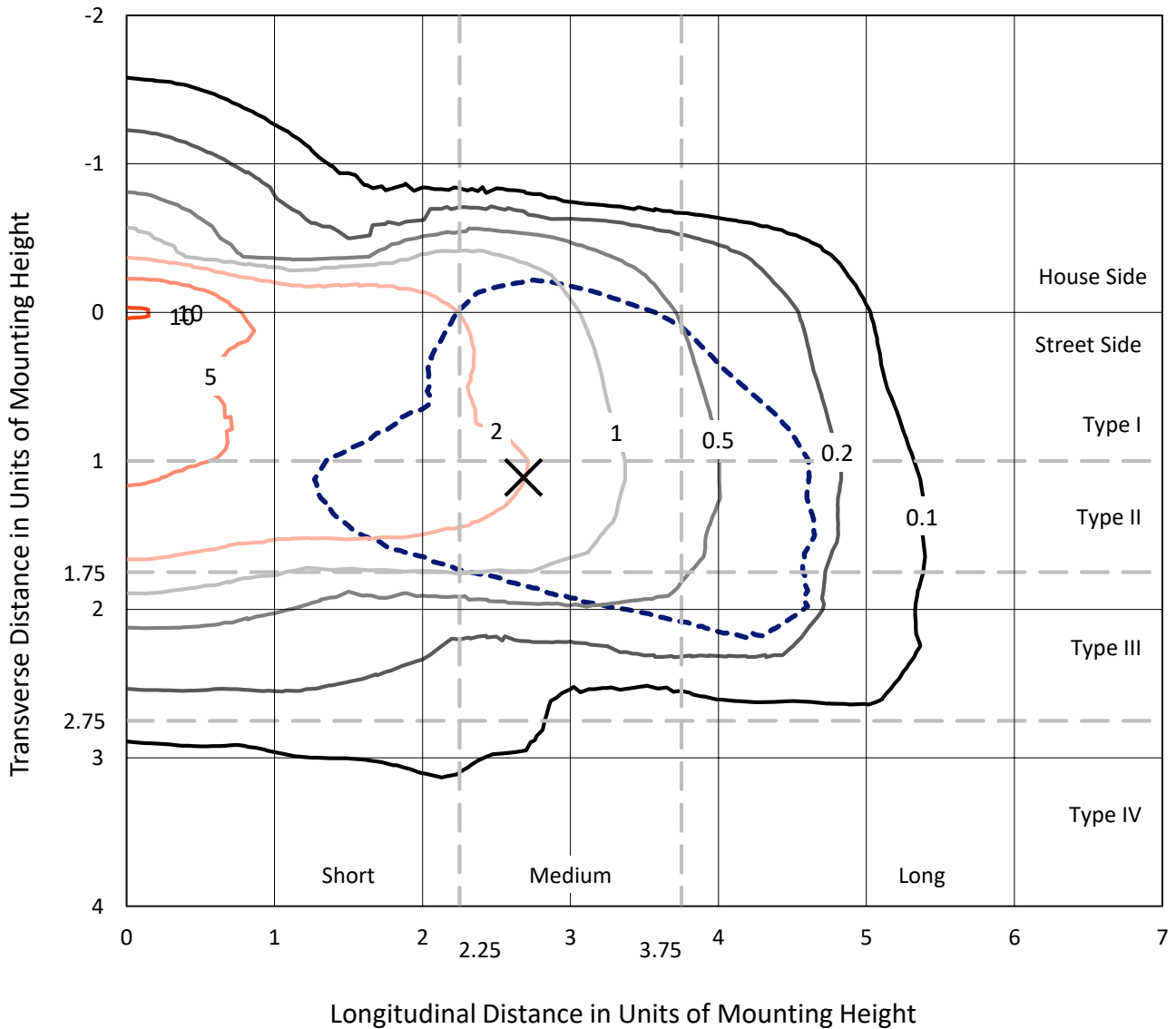
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

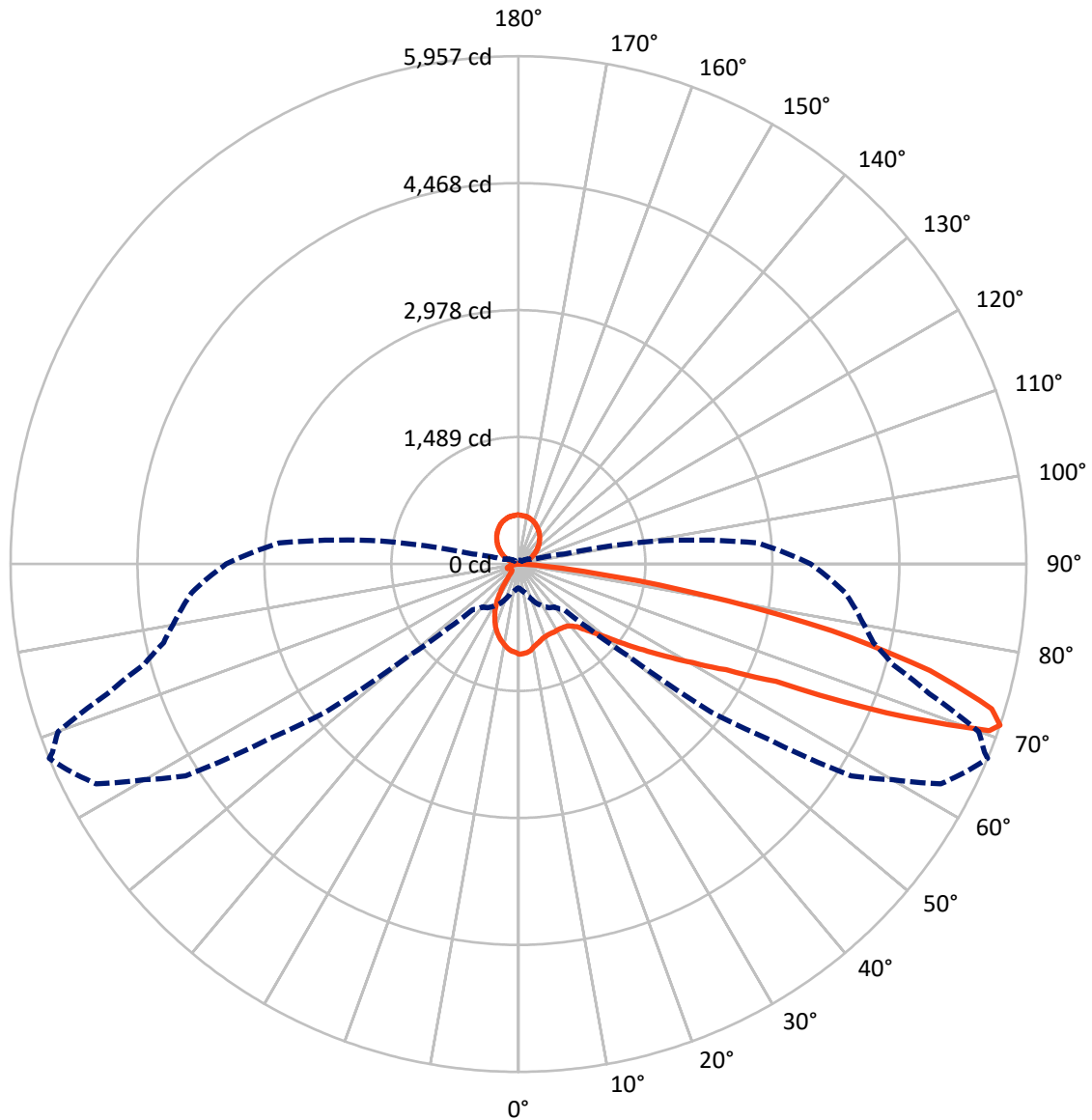
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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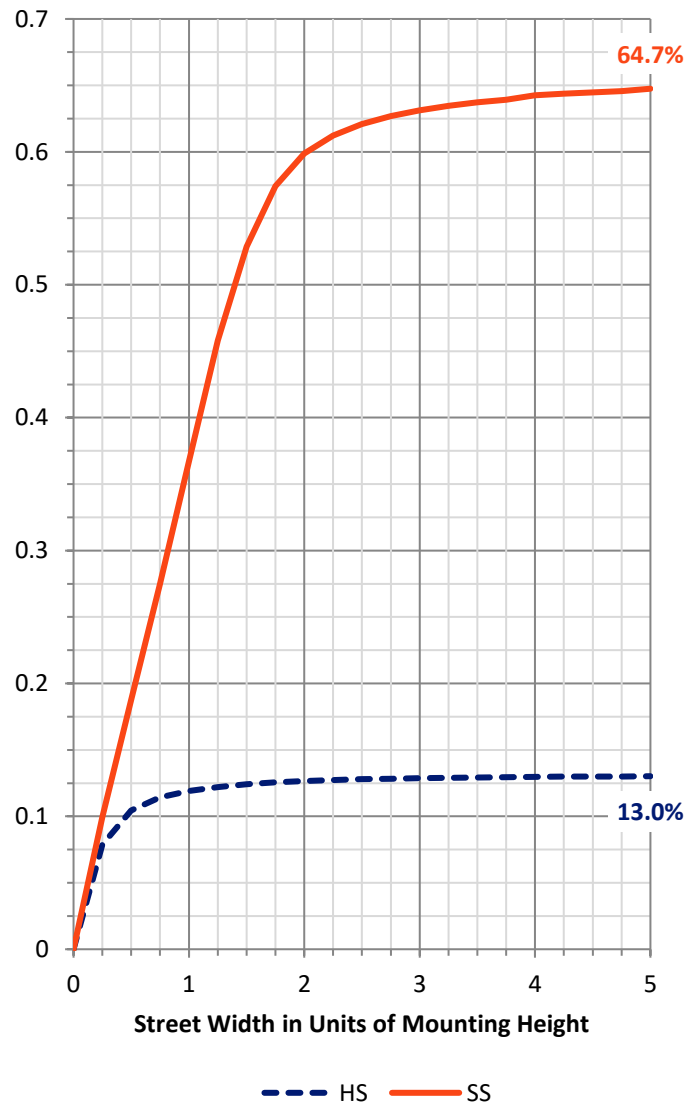
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.9	713.1	1568.9
	% Fixture	13.2	11.0	24.1
Street Side	Lumens	4223.1	713.1	4936.2
	% Fixture	64.9	11.0	75.9
Total	Lumens	5079.0	1426.2	6505.2
	% Fixture	78.1	21.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.4
10°-20°	220.9	3.4
20°-30°	300.5	4.6
30°-40°	410.7	6.3
40°-50°	618.8	9.5
50°-60°	980.7	15.1
60°-70°	1298.2	20.0
70°-80°	1034.2	15.9
80°-90°	122.6	1.9
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.4
120°-130°	223.9	3.4
130°-140°	265.6	4.1
140°-150°	269.3	4.1
150°-160°	231.1	3.6
160°-170°	155.1	2.4
170°-180°	54.3	0.8
0°-90°	5079.0	78.1
0°-180°	6505.2	100.0



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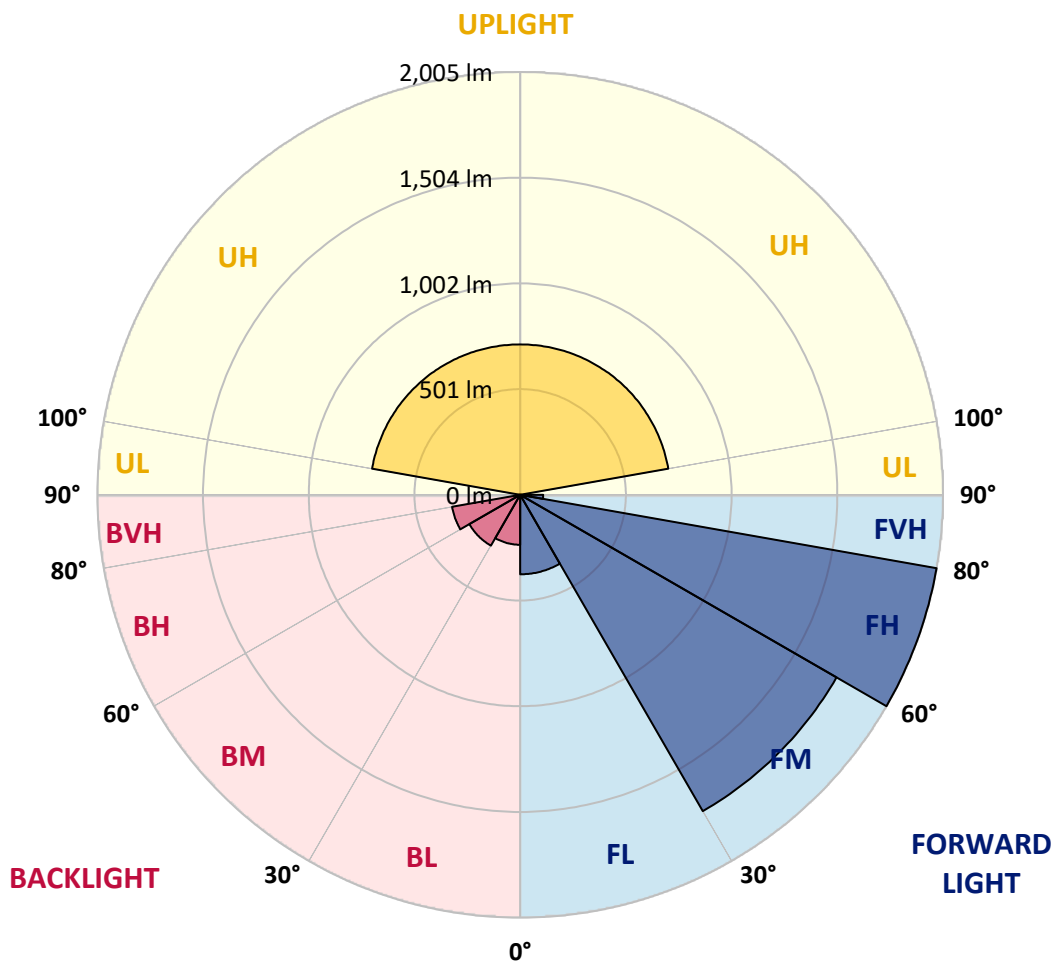
CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.9	5.8			
FM (30°-60°)	1732.0	26.6			
FH (60°-80°)	2004.9	30.8			G2/5000
FVH (80°-90°)	109.3	1.7			G2/225
BL (0°-30°)	236.9	3.6	B1/500		
BM (30°-60°)	278.1	4.3	B1/1000		
BH (60°-80°)	327.6	5.0	B1/500		G1/500
BVH (80°-90°)	13.3	0.2			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	11.0		U4/1000	

BUG Rating: B1-U5-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1038.9	1035.4	1035.4	1040.7	1049.5	1042.4	1047.8	1047.8	1049.5	1054.9	1056.6
5°	962.7	955.6	962.7	969.8	989.3	985.7	991.0	996.4	1007.0	1008.8	1022.9
7.5°	893.5	890.0	895.3	909.5	934.3	927.2	934.3	941.4	953.8	959.1	973.3
10°	840.3	835.0	842.1	852.8	877.6	875.8	879.3	888.2	902.4	905.9	923.7
12.5°	801.3	801.3	804.9	819.1	840.3	838.6	849.2	854.5	866.9	870.5	890.0
15°	781.8	776.5	783.6	796.0	817.3	817.3	824.4	829.7	847.4	849.2	866.9
17.5°	764.1	765.9	767.7	781.8	801.3	797.8	806.7	810.2	829.7	826.2	847.4
20°	764.1	767.7	765.9	774.7	788.9	781.8	792.5	794.2	815.5	810.2	833.2
22.5°	785.4	788.9	783.6	781.8	787.2	781.8	787.2	790.7	806.7	803.1	824.4
25°	822.6	829.7	822.6	810.2	804.9	790.7	794.2	799.6	812.0	803.1	822.6
27.5°	881.1	886.4	874.0	861.6	836.8	820.8	815.5	813.7	827.9	813.7	829.7
30°	948.5	955.6	944.9	921.9	886.4	859.8	849.2	843.9	852.8	831.5	847.4
32.5°	1021.2	1028.3	1021.2	1003.4	955.6	916.6	902.4	890.0	897.1	868.7	875.8
35°	1095.6	1102.7	1109.8	1099.2	1037.1	992.8	969.8	959.1	957.4	921.9	923.7
37.5°	1161.2	1168.3	1191.4	1202.0	1145.3	1085.0	1063.7	1040.7	1042.4	992.8	992.8
40°	1241.0	1249.9	1280.0	1304.8	1267.6	1194.9	1170.1	1145.3	1145.3	1079.7	1081.5
42.5°	1349.2	1359.8	1379.3	1413.0	1400.6	1326.1	1299.5	1265.8	1269.4	1191.4	1189.6
45°	1501.6	1508.7	1508.7	1530.0	1531.8	1460.8	1443.1	1409.4	1416.5	1317.2	1322.6
47.5°	1700.2	1691.3	1655.9	1668.3	1682.5	1608.0	1592.0	1570.8	1579.6	1473.3	1483.9
50°	1884.6	1877.5	1804.8	1808.3	1859.7	1783.5	1778.2	1751.6	1764.0	1657.6	1673.6
52.5°	1953.7	1941.3	1868.6	1907.6	2051.2	2008.7	2017.5	2005.1	2012.2	1898.7	1895.2
55°	1875.7	1875.7	1831.4	1902.3	2194.8	2217.9	2290.6	2318.9	2349.1	2235.6	2210.8
57.5°	1659.4	1673.6	1680.7	1806.6	2171.8	2271.0	2409.3	2529.9	2684.1	2677.0	2714.3
60°	1301.3	1326.1	1366.9	1572.5	2072.5	2235.6	2414.7	2595.5	2808.2	2944.7	3146.8
62.5°	913.0	934.3	968.0	1109.8	1783.5	2063.6	2322.5	2600.8	2872.1	3086.6	3352.5
65°	620.5	641.8	712.7	790.7	1076.1	1483.9	1879.2	2340.2	2753.3	3152.2	3510.3
67.5°	446.8	459.2	514.1	645.3	716.2	790.7	937.8	1480.3	1989.2	2792.3	3315.3
70°	335.1	347.5	397.1	542.5	629.4	648.9	684.3	780.1	909.5	1569.0	2255.1
71°	280.1	297.8	358.1	510.6	625.8	641.8	657.7	714.5	757.0	1109.8	1673.6
72.5°	196.8	209.2	265.9	471.6	601.0	638.2	675.5	673.7	670.1	757.0	1012.3
75°	125.9	125.9	125.9	265.9	641.8	618.7	632.9	709.1	670.1	636.5	666.6
77.5°	99.3	97.5	92.2	133.0	501.7	627.6	664.8	684.3	721.6	664.8	634.7
80°	74.5	72.7	72.7	83.3	232.2	406.0	562.0	624.1	650.6	707.4	645.3
82.5°	39.0	39.0	42.5	49.6	86.9	141.8	290.8	478.7	535.4	539.0	544.3
85°	12.4	10.6	14.2	23.0	37.2	46.1	81.6	193.2	287.2	347.5	367.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.1	12.4	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1051.3	1058.4	1053.1	1060.2	1051.3	1062.0	1053.1	1058.4	1060.2	1053.1	1062.0
5°	1014.1	1035.4	1028.3	1044.2	1037.1	1051.3	1044.2	1058.4	1058.4	1053.1	1065.5
7.5°	968.0	989.3	991.0	1007.0	1007.0	1024.7	1024.7	1038.9	1046.0	1046.0	1063.7
10°	921.9	941.4	944.9	962.7	966.2	987.5	987.5	1007.0	1021.2	1026.5	1047.8
12.5°	886.4	911.3	911.3	930.8	927.2	959.1	962.7	980.4	994.6	1007.0	1035.4
15°	865.2	888.2	888.2	907.7	904.2	936.1	941.4	959.1	980.4	987.5	1026.5
17.5°	843.9	866.9	861.6	888.2	886.4	921.9	918.3	944.9	962.7	973.3	1017.6
20°	826.2	852.8	849.2	875.8	868.7	907.7	907.7	934.3	952.0	960.9	1012.3
22.5°	817.3	845.7	838.6	865.2	859.8	898.8	898.8	925.4	944.9	959.1	1010.5
25°	817.3	842.1	835.0	865.2	856.3	898.8	897.1	923.7	943.2	955.6	1012.3
27.5°	820.8	845.7	840.3	868.7	861.6	898.8	902.4	925.4	944.9	959.1	1015.9
30°	833.2	856.3	843.9	870.5	865.2	900.6	898.8	923.7	943.2	960.9	1015.9
32.5°	859.8	872.3	856.3	879.3	868.7	904.2	904.2	921.9	944.9	966.2	1015.9
35°	897.1	905.9	881.1	897.1	877.6	913.0	911.3	930.8	948.5	966.2	1019.4
37.5°	950.3	960.9	921.9	936.1	904.2	932.5	925.4	948.5	966.2	976.9	1037.1
40°	1030.0	1033.6	982.2	992.8	948.5	973.3	955.6	987.5	996.4	1003.4	1063.7
42.5°	1127.5	1131.1	1065.5	1072.6	1015.9	1037.1	1007.0	1040.7	1053.1	1051.3	1116.9
45°	1248.1	1249.9	1175.4	1180.7	1115.1	1132.9	1095.6	1124.0	1132.9	1127.5	1194.9
47.5°	1379.3	1393.5	1310.2	1317.2	1248.1	1257.0	1210.9	1242.8	1242.8	1237.5	1306.6
50°	1553.0	1574.3	1476.8	1487.4	1407.7	1414.8	1361.6	1395.3	1391.7	1377.5	1455.5
52.5°	1769.3	1788.8	1686.0	1700.2	1615.1	1618.6	1553.0	1592.0	1581.4	1558.4	1648.8
55°	2033.5	2035.3	1939.5	1951.9	1866.8	1861.5	1780.0	1827.8	1811.9	1780.0	1863.3
57.5°	2457.2	2405.8	2248.0	2244.5	2152.3	2145.2	2040.6	2099.1	2072.5	2005.1	2115.0
60°	3139.8	3155.7	2753.3	2691.2	2519.3	2487.3	2349.1	2416.4	2384.5	2274.6	2382.7
62.5°	3524.5	3778.0	3753.2	3529.8	3086.6	2966.0	2732.0	2811.8	2728.4	2567.1	2668.2
65°	3809.9	4153.8	4352.4	4566.9	4368.4	3875.5	3322.4	3434.1	3230.2	2923.5	3021.0
67.5°	3916.3	4331.1	4749.5	5054.5	5261.9	5299.1	4659.1	4689.2	4187.5	3574.1	3586.5
70°	3359.6	3971.2	4790.3	5176.8	5588.1	5790.2	5857.6	5825.7	5501.2	4632.5	4301.0
71°	2847.2	3588.3	4627.2	5058.0	5584.5	5779.6	5956.8	5896.6	5745.9	5052.7	4543.9
72.5°	1928.9	2859.6	4150.3	4696.3	5398.4	5540.2	5806.2	5699.8	5667.9	5366.5	4770.8
75°	907.7	1425.4	2700.1	3526.2	4568.7	4705.2	4983.5	4852.4	4769.0	4871.9	4538.6
77.5°	668.4	778.3	1482.1	2191.3	3322.4	3515.6	3754.9	3593.6	3487.2	3590.1	3357.8
80°	608.1	611.6	767.7	1155.9	1982.1	2097.3	2187.7	2056.5	1895.2	1888.1	1673.6
82.5°	560.2	530.1	498.2	611.6	1015.9	966.2	893.5	827.9	643.6	515.9	372.3
85°	356.3	390.0	354.6	335.1	404.2	333.3	264.2	253.5	179.1	120.6	111.7
87.5°	24.8	28.4	33.7	39.0	47.9	39.0	24.8	30.1	17.7	0.0	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.4	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	29.1	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.4	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.4	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.7	91.5	91.2	91.0



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CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.7	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.7	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.7	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.3	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.3	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.3	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.3	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.3	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.3	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	390.6	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.3	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.3	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.3	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.3	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.3	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.4	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.4	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.3	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	564.6	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.3	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.4	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1049.5	1058.4	1062.0	1060.2	1056.6	1053.1	1040.7	1049.5	1037.1	1046.0	1035.4
5°	1054.9	1067.3	1069.0	1065.5	1062.0	1054.9	1033.6	1046.0	1031.8	1038.9	1022.9
7.5°	1053.1	1072.6	1074.4	1070.8	1063.7	1051.3	1030.0	1038.9	1015.9	1021.2	999.9
10°	1044.2	1072.6	1074.4	1065.5	1054.9	1035.4	1010.5	1014.1	991.0	991.0	962.7
12.5°	1035.4	1069.0	1077.9	1065.5	1047.8	1021.2	992.8	989.3	962.7	960.9	929.0
15°	1035.4	1072.6	1085.0	1069.0	1042.4	1005.2	971.5	964.4	934.3	925.4	890.0
17.5°	1033.6	1072.6	1090.3	1069.0	1037.1	989.3	946.7	939.6	900.6	886.4	845.7
20°	1031.8	1076.1	1093.9	1065.5	1021.2	969.8	921.9	907.7	865.2	842.1	794.2
22.5°	1030.0	1083.2	1097.4	1062.0	1010.5	944.9	895.3	870.5	820.8	790.7	734.0
25°	1038.9	1092.1	1099.2	1058.4	994.6	918.3	865.2	831.5	776.5	737.5	670.1
27.5°	1042.4	1101.0	1102.7	1051.3	975.1	890.0	833.2	787.2	725.1	677.2	601.0
30°	1053.1	1102.7	1097.4	1037.1	952.0	854.5	796.0	739.3	670.1	608.1	517.7
32.5°	1056.6	1108.0	1093.9	1021.2	929.0	819.1	753.5	687.9	604.5	531.9	421.9
35°	1063.7	1111.6	1090.3	1012.3	904.2	781.8	709.1	634.7	539.0	446.8	320.9
37.5°	1074.4	1127.5	1099.2	1008.8	891.8	749.9	659.5	579.7	460.9	352.8	212.7
40°	1101.0	1159.5	1115.1	1014.1	882.9	723.3	611.6	523.0	372.3	260.6	147.1
42.5°	1154.1	1214.4	1155.9	1040.7	888.2	700.3	562.0	462.7	281.9	186.2	122.3
45°	1233.9	1285.3	1223.3	1085.0	909.5	687.9	515.9	400.7	202.1	148.9	111.7
47.5°	1350.9	1400.6	1322.6	1155.9	946.7	682.6	468.0	335.1	156.0	134.7	108.1
50°	1505.2	1563.7	1466.2	1267.6	1015.9	687.9	416.6	273.0	136.5	131.2	106.4
52.5°	1694.9	1751.6	1654.1	1432.5	1129.3	718.0	361.7	237.6	129.4	129.4	104.6
55°	1909.4	1989.2	1893.4	1661.2	1304.8	783.6	328.0	225.2	129.4	131.2	102.8
57.5°	2162.9	2230.3	2145.2	1881.0	1515.8	891.8	331.5	237.6	129.4	131.2	101.1
60°	2411.1	2494.4	2396.9	2161.1	1756.9	1054.9	404.2	301.4	134.7	136.5	101.1
62.5°	2669.9	2733.8	2654.0	2405.8	2029.9	1257.0	549.6	436.1	156.0	161.3	108.1
65°	2953.6	3058.2	2974.9	2771.0	2416.4	1579.6	826.2	654.2	230.5	187.9	118.8
67.5°	3444.7	3487.2	3446.5	3260.3	2868.5	1845.6	983.9	664.8	230.5	182.6	133.0
70°	4109.5	4013.8	3831.2	3483.7	2916.4	1655.9	705.6	406.0	196.8	173.7	140.1
71°	4263.8	4116.6	3847.1	3428.7	2817.1	1494.5	547.8	320.9	184.4	170.2	140.1
72.5°	4357.7	4137.9	3730.1	3267.4	2622.1	1177.2	361.7	251.7	168.4	161.3	134.7
75°	4235.4	3829.4	3294.0	2827.7	2146.9	611.6	226.9	191.5	143.6	140.1	117.0
77.5°	3363.1	3006.8	2430.6	2054.8	1381.1	271.2	163.1	145.4	113.5	109.9	90.4
80°	1569.0	1258.7	737.5	632.9	434.4	159.6	111.7	99.3	81.6	78.0	63.8
82.5°	285.4	214.5	166.6	161.3	145.4	94.0	65.6	60.3	51.4	49.6	40.8
85°	97.5	94.0	70.9	70.9	72.7	49.6	37.2	35.5	26.6	26.6	17.7
87.5°	1.8	8.9	8.9	12.4	10.6	8.9	3.5	5.3	1.8	5.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	110°	114.0
1044.2	1030.0	1042.4	1030.0	1037.1	1022.9	1031.8	1026.5	1026.5	1021.2	1017.6	112.5°	136.0
1028.3	1010.5	1019.4	1005.2	1012.3	991.0	996.4	987.5	969.8	959.1	944.9	115°	158.0
1005.2	978.6	985.7	964.4	969.8	941.4	946.7	930.8	897.1	875.8	854.5	117.5°	181.0
964.4	939.6	941.4	914.8	913.0	884.7	879.3	858.1	808.4	773.0	744.6	120°	204.0
923.7	895.3	891.8	859.8	854.5	820.8	813.7	780.1	707.4	638.2	593.9	122.5°	228.0
881.1	845.7	835.0	801.3	781.8	753.5	734.0	684.3	579.7	489.3	430.8	125°	254.0
833.2	787.2	771.2	732.2	703.8	661.3	632.9	565.5	430.8	333.3	292.5	127.5°	277.0
771.2	721.6	693.2	643.6	606.3	554.9	519.5	432.6	287.2	237.6	232.2	130°	301.0
702.1	643.6	608.1	546.0	499.9	445.0	388.3	292.5	203.9	193.2	200.3	132.5°	325.0
629.4	556.7	510.6	434.4	372.3	308.5	255.3	195.0	166.6	164.9	175.5	135°	348.0
542.5	459.2	393.6	303.2	246.4	196.8	173.7	154.2	141.8	143.6	154.2	137.5°	369.0
446.8	338.6	269.5	189.7	164.9	143.6	140.1	133.0	127.6	131.2	138.3	140°	390.0
333.3	216.3	173.7	136.5	134.7	122.3	125.9	122.3	120.6	122.3	127.6	142.5°	412.0
225.2	143.6	136.5	117.0	120.6	111.7	117.0	115.2	113.5	113.5	117.0	145°	433.0
156.0	118.8	122.3	108.1	113.5	106.4	111.7	109.9	108.1	106.4	108.1	147.5°	452.0
129.4	108.1	113.5	102.8	108.1	101.1	106.4	104.6	102.8	99.3	99.3	150°	469.0
118.8	102.8	108.1	97.5	104.6	95.7	102.8	99.3	95.7	92.2	94.0	152.5°	486.0
115.2	99.3	104.6	94.0	101.1	92.2	97.5	95.7	88.6	86.9	88.6	155°	503.0
111.7	97.5	102.8	92.2	97.5	88.6	94.0	90.4	83.3	81.6	83.3	157.5°	517.0
109.9	94.0	99.3	88.6	94.0	86.9	90.4	86.9	79.8	78.0	78.0	160°	530.0
108.1	92.2	97.5	85.1	90.4	79.8	85.1	81.6	74.5	72.7	72.7	162.5°	540.0
108.1	90.4	94.0	81.6	86.9	76.2	79.8	76.2	72.7	69.1	69.1	165°	550.0
106.4	86.9	92.2	78.0	81.6	72.7	76.2	72.7	67.4	65.6	65.6	167.5°	558.0
106.4	85.1	90.4	76.2	79.8	69.1	72.7	69.1	63.8	62.1	62.1	170°	564.0
111.7	88.6	92.2	78.0	79.8	69.1	70.9	65.6	60.3	60.3	58.5	172.5°	567.0
122.3	99.3	99.3	81.6	81.6	69.1	70.9	63.8	56.7	56.7	56.7	175°	570.0
133.0	109.9	108.1	86.9	85.1	69.1	69.1	60.3	53.2	53.2	53.2	177.5°	574.0
140.1	115.2	111.7	88.6	85.1	67.4	65.6	56.7	49.6	49.6	49.6	180°	576.0
138.3	115.2	109.9	86.9	81.6	63.8	63.8	55.0	47.9	47.9	46.1		
131.2	108.1	102.8	81.6	78.0	60.3	60.3	51.4	44.3	44.3	42.5		
111.7	92.2	86.9	69.1	65.6	53.2	51.4	42.5	39.0	37.2	37.2		
86.9	72.7	67.4	55.0	53.2	42.5	40.8	35.5	31.9	31.9	30.1		
62.1	51.4	47.9	37.2	33.7	28.4	30.1	26.6	24.8	24.8	23.0		
37.2	26.6	26.6	21.3	23.0	17.7	19.5	19.5	17.7	14.2	14.2		
19.5	12.4	16.0	8.9	12.4	5.3	8.9	7.1	7.1	5.3	5.3		
3.5	0.0	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'228136
 ISC-AF-1200-LED-E1-SL2-8030-ULG

REPORT NUMBER: P228136
 CATALOG NUMBER: ISC-AF-12

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	1058.4	1058.4
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	1007.0	1008.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	937.8	941.4
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	838.6	843.9
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	719.8	723.3
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	567.3	567.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	397.1	400.7
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	278.3	280.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	234.0	235.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	209.2	211.0
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	186.2	187.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	161.3	163.1
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	145.4	147.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	131.2	133.0
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	118.8	118.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	109.9	109.9
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	101.1	101.1
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	95.7	95.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	90.4	90.4
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	85.1	85.1
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	79.8	81.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	74.5	74.5
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	69.1	69.1
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	63.8	65.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	60.3	60.3
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	56.7	56.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	55.0	55.0
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	51.4	51.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	47.9	47.9
										71°	46.1	46.1
										72.5°	42.5	42.5
										75°	37.2	35.5
										77.5°	30.1	30.1
										80°	23.0	21.3
										82.5°	14.2	12.4
										85°	5.3	3.5
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

