

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: P228139

Luminaire Tested: **ISC-AF-1200-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228139
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-SL2-7030-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, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6936.2 lumens
Efficiency: N/A
Efficacy: 83.9 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

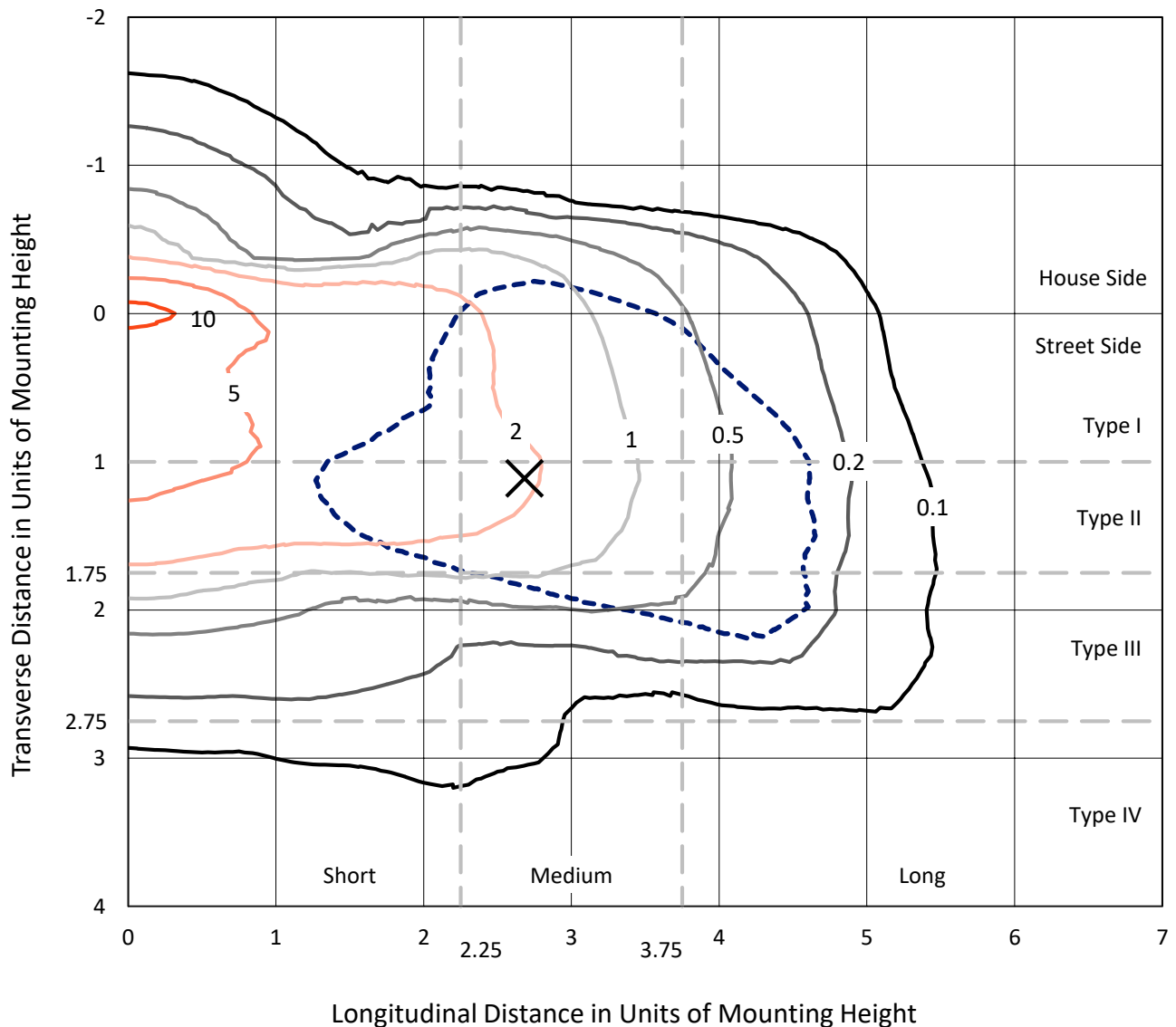
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

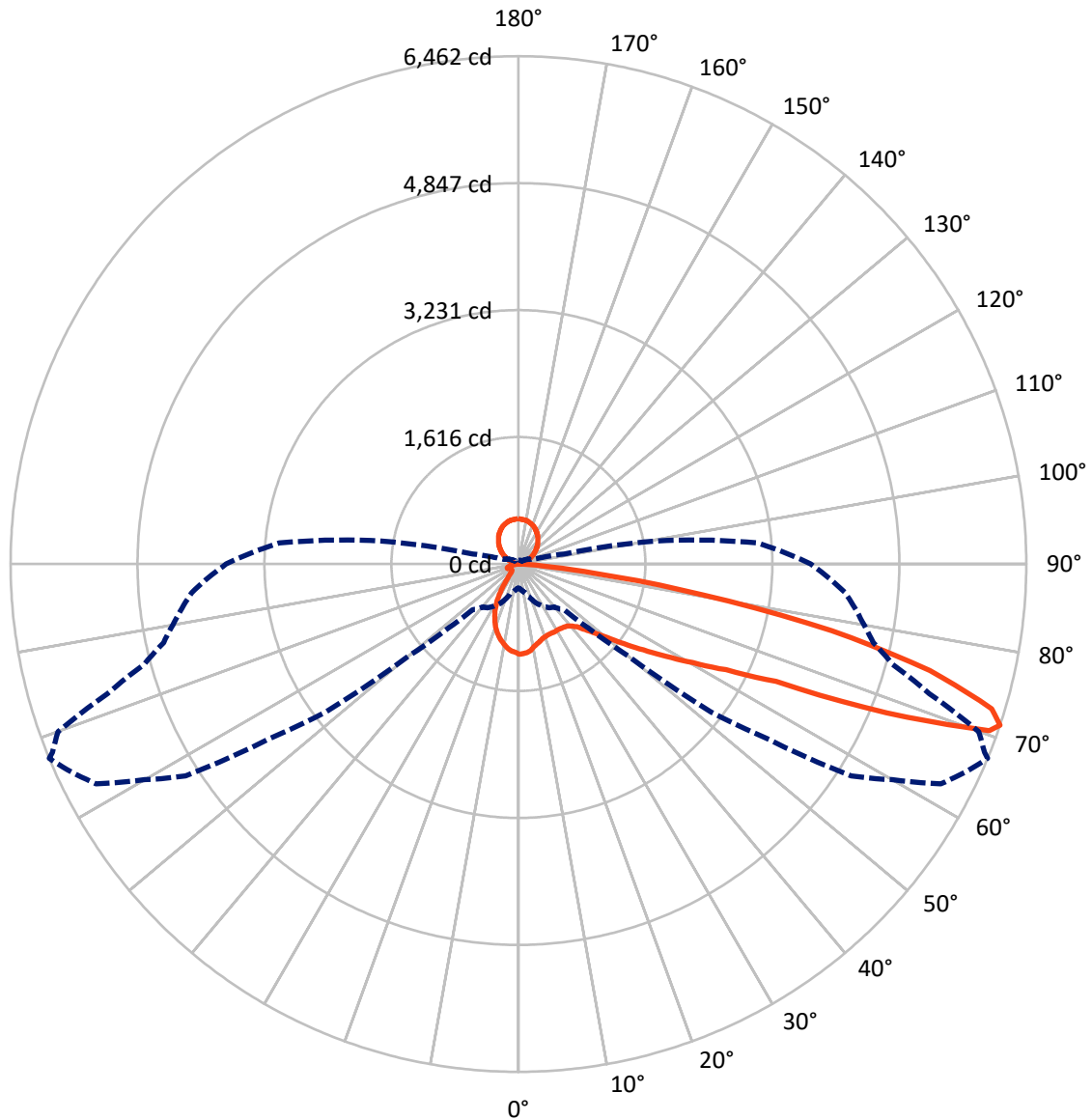
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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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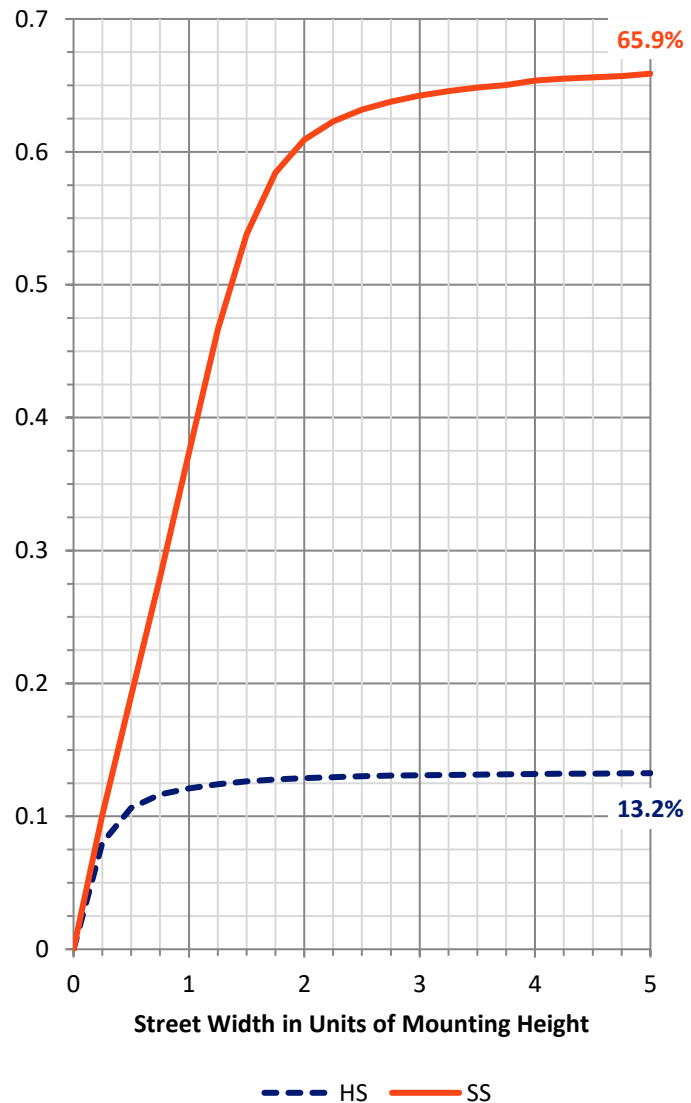
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.5	713.1	1641.6
	% Fixture	13.4	10.3	23.7
Street Side	Lumens	4581.5	713.1	5294.6
	% Fixture	66.1	10.3	76.3
Total	Lumens	5510.0	1426.2	6936.2
	% Fixture	79.4	20.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.4
10°-20°	239.7	3.5
20°-30°	326.0	4.7
30°-40°	445.5	6.4
40°-50°	671.3	9.7
50°-60°	1063.9	15.3
60°-70°	1408.4	20.3
70°-80°	1122.0	16.2
80°-90°	133.0	1.9
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.2
120°-130°	223.9	3.2
130°-140°	265.6	3.8
140°-150°	269.3	3.9
150°-160°	231.1	3.3
160°-170°	155.1	2.2
170°-180°	54.3	0.8
0°-90°	5510.0	79.4
0°-180°	6936.2	100.0



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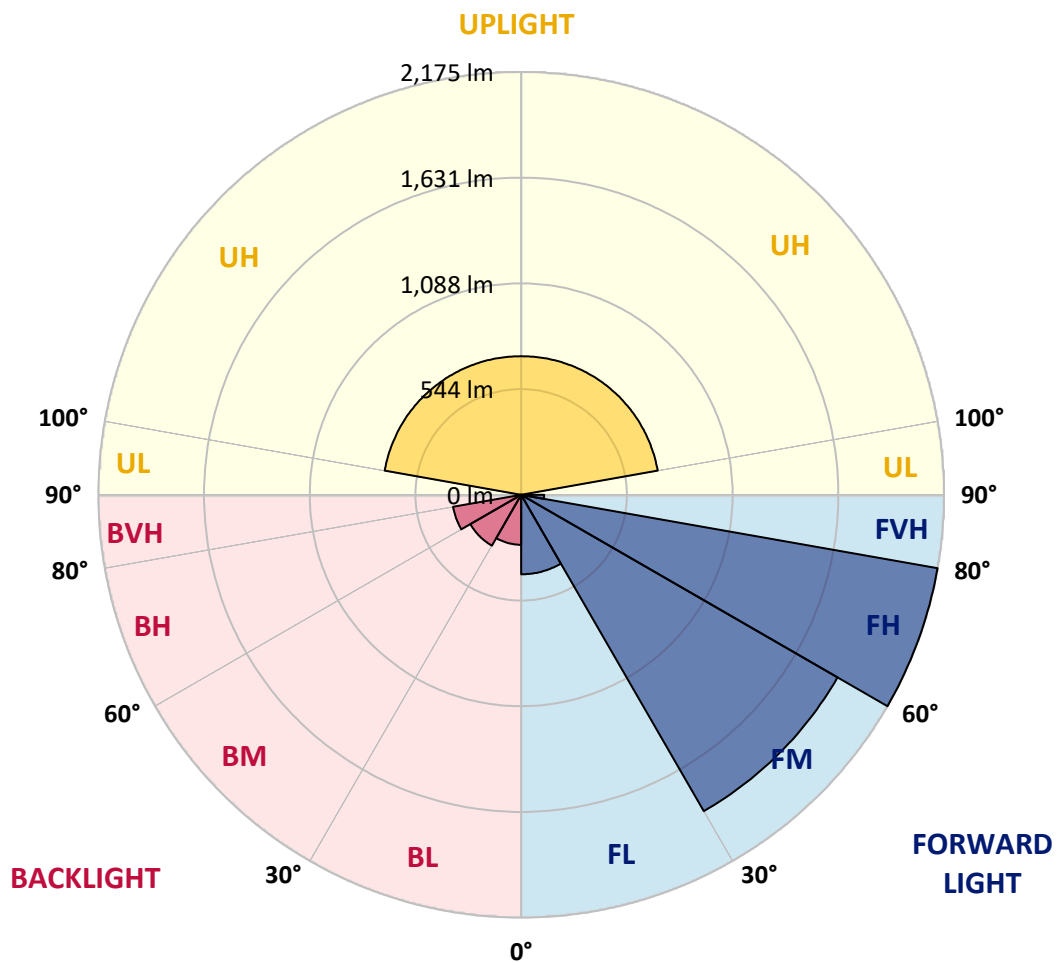
CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.8	5.9			
FM (30°-60°)	1879.0	27.1			
FH (60°-80°)	2175.0	31.4			G2/5000
FVH (80°-90°)	118.6	1.7			G2/225
BL (0°-30°)	257.0	3.7	B1/500		
BM (30°-60°)	301.7	4.3	B1/1000		
BH (60°-80°)	355.4	5.1	B1/500		G1/500
BVH (80°-90°)	14.4	0.2			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	10.3		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°	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2
2.5°	1127.1	1123.2	1123.2	1129.0	1138.6	1130.9	1136.7	1136.7	1138.6	1144.4	1146.3
5°	1044.4	1036.7	1044.4	1052.1	1073.2	1069.4	1075.1	1080.9	1092.4	1094.4	1109.8
7.5°	969.4	965.5	971.3	986.7	1013.6	1005.9	1013.6	1021.3	1034.7	1040.5	1055.9
10°	911.7	905.9	913.6	925.1	952.0	950.1	954.0	963.6	979.0	982.8	1002.0
12.5°	869.3	869.3	873.2	888.6	911.7	909.7	921.3	927.0	940.5	944.3	965.5
15°	848.2	842.4	850.1	863.6	886.6	886.6	894.3	900.1	919.3	921.3	940.5
17.5°	828.9	830.9	832.8	848.2	869.3	865.5	875.1	879.0	900.1	896.3	919.3
20°	828.9	832.8	830.9	840.5	855.9	848.2	859.7	861.6	884.7	879.0	904.0
22.5°	852.0	855.9	850.1	848.2	854.0	848.2	854.0	857.8	875.1	871.3	894.3
25°	892.4	900.1	892.4	879.0	873.2	857.8	861.6	867.4	880.9	871.3	892.4
27.5°	955.9	961.7	948.2	934.7	907.8	890.5	884.7	882.8	898.2	882.8	900.1
30°	1029.0	1036.7	1025.1	1000.1	961.7	932.8	921.3	915.5	925.1	902.0	919.3
32.5°	1107.8	1115.5	1107.8	1088.6	1036.7	994.4	979.0	965.5	973.2	942.4	950.1
35°	1188.6	1196.3	1204.0	1192.5	1125.1	1077.1	1052.1	1040.5	1038.6	1000.1	1002.0
37.5°	1259.8	1267.5	1292.5	1304.0	1242.5	1177.1	1154.0	1129.0	1130.9	1077.1	1077.1
40°	1346.3	1355.9	1388.6	1415.6	1375.2	1296.3	1269.4	1242.5	1242.5	1171.3	1173.2
42.5°	1463.6	1475.2	1496.3	1532.9	1519.4	1438.6	1409.8	1373.2	1377.1	1292.5	1290.5
45°	1629.0	1636.7	1636.7	1659.8	1661.7	1584.8	1565.6	1529.0	1536.7	1429.0	1434.8
47.5°	1844.5	1834.8	1796.4	1809.8	1825.2	1744.4	1727.1	1704.1	1713.7	1598.3	1609.8
50°	2044.5	2036.8	1957.9	1961.8	2017.6	1934.9	1929.1	1900.2	1913.7	1798.3	1815.6
52.5°	2119.5	2106.0	2027.2	2069.5	2225.3	2179.1	2188.7	2175.3	2183.0	2059.9	2056.0
55°	2034.9	2034.9	1986.8	2063.7	2381.1	2406.1	2484.9	2515.7	2548.4	2425.3	2398.4
57.5°	1800.2	1815.6	1823.3	1959.9	2356.1	2463.8	2613.8	2744.6	2911.9	2904.2	2944.6
60°	1411.7	1438.6	1482.9	1706.0	2248.4	2425.3	2619.6	2815.7	3046.5	3194.6	3413.9
62.5°	990.5	1013.6	1050.1	1204.0	1934.9	2238.7	2519.5	2821.5	3115.8	3348.5	3637.0
65°	673.2	696.2	773.2	857.8	1167.5	1609.8	2038.7	2538.8	2986.9	3419.7	3808.2
67.5°	484.7	498.1	557.8	700.1	777.0	857.8	1017.4	1606.0	2158.0	3029.2	3596.6
70°	363.5	377.0	430.8	588.5	682.8	703.9	742.4	846.3	986.7	1702.1	2446.5
71°	303.9	323.1	388.5	553.9	678.9	696.2	713.6	775.1	821.3	1204.0	1815.6
72.5°	213.5	227.0	288.5	511.6	652.0	692.4	732.8	730.9	727.0	821.3	1098.2
75°	136.6	136.6	136.6	288.5	696.2	671.2	686.6	769.3	727.0	690.5	723.2
77.5°	107.7	105.8	100.0	144.2	544.3	680.9	721.2	742.4	782.8	721.2	688.5
80°	80.8	78.9	78.9	90.4	252.0	440.4	609.7	677.0	705.9	767.4	700.1
82.5°	42.3	42.3	46.2	53.9	94.2	153.9	315.4	519.3	580.8	584.7	590.5
85°	13.5	11.5	15.4	25.0	40.4	50.0	88.5	209.6	311.6	377.0	398.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	7.7	13.5	17.3
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°	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2
2.5°	1140.5	1148.2	1142.4	1150.1	1140.5	1152.1	1142.4	1148.2	1150.1	1142.4	1152.1
5°	1100.1	1123.2	1115.5	1132.8	1125.1	1140.5	1132.8	1148.2	1148.2	1142.4	1155.9
7.5°	1050.1	1073.2	1075.1	1092.4	1092.4	1111.7	1111.7	1127.1	1134.8	1134.8	1154.0
10°	1000.1	1021.3	1025.1	1044.4	1048.2	1071.3	1071.3	1092.4	1107.8	1113.6	1136.7
12.5°	961.7	988.6	988.6	1009.7	1005.9	1040.5	1044.4	1063.6	1079.0	1092.4	1123.2
15°	938.6	963.6	963.6	984.7	980.9	1015.5	1021.3	1040.5	1063.6	1071.3	1113.6
17.5°	915.5	940.5	934.7	963.6	961.7	1000.1	996.3	1025.1	1044.4	1055.9	1104.0
20°	896.3	925.1	921.3	950.1	942.4	984.7	984.7	1013.6	1032.8	1042.4	1098.2
22.5°	886.6	917.4	909.7	938.6	932.8	975.1	975.1	1004.0	1025.1	1040.5	1096.3
25°	886.6	913.6	905.9	938.6	929.0	975.1	973.2	1002.0	1023.2	1036.7	1098.2
27.5°	890.5	917.4	911.7	942.4	934.7	975.1	979.0	1004.0	1025.1	1040.5	1102.1
30°	904.0	929.0	915.5	944.3	938.6	977.0	975.1	1002.0	1023.2	1042.4	1102.1
32.5°	932.8	946.3	929.0	954.0	942.4	980.9	980.9	1000.1	1025.1	1048.2	1102.1
35°	973.2	982.8	955.9	973.2	952.0	990.5	988.6	1009.7	1029.0	1048.2	1105.9
37.5°	1030.9	1042.4	1000.1	1015.5	980.9	1011.7	1004.0	1029.0	1048.2	1059.7	1125.1
40°	1117.4	1121.3	1065.5	1077.1	1029.0	1055.9	1036.7	1071.3	1080.9	1088.6	1154.0
42.5°	1223.2	1227.1	1155.9	1163.6	1102.1	1125.1	1092.4	1129.0	1142.4	1140.5	1211.7
45°	1354.0	1355.9	1275.2	1280.9	1209.8	1229.0	1188.6	1219.4	1229.0	1223.2	1296.3
47.5°	1496.3	1511.7	1421.3	1429.0	1354.0	1363.6	1313.6	1348.2	1348.2	1342.5	1417.5
50°	1684.8	1707.9	1602.1	1613.7	1527.1	1534.8	1477.1	1513.7	1509.8	1494.4	1579.0
52.5°	1919.5	1940.6	1829.1	1844.5	1752.1	1756.0	1684.8	1727.1	1715.6	1690.6	1788.7
55°	2206.0	2208.0	2104.1	2117.6	2025.3	2019.5	1931.0	1982.9	1965.6	1931.0	2021.4
57.5°	2665.7	2609.9	2438.8	2434.9	2334.9	2327.2	2213.7	2277.2	2248.4	2175.3	2294.5
60°	3406.2	3423.5	2986.9	2919.6	2733.0	2698.4	2548.4	2621.5	2586.9	2467.6	2584.9
62.5°	3823.6	4098.6	4071.7	3829.3	3348.5	3217.7	2963.8	3050.4	2960.0	2785.0	2894.6
65°	4133.2	4506.3	4721.7	4954.5	4739.1	4204.4	3604.3	3725.5	3504.3	3171.5	3277.3
67.5°	4248.6	4698.7	5152.6	5483.4	5708.4	5748.8	5054.5	5087.2	4542.9	3877.4	3890.9
70°	3644.7	4308.2	5196.8	5616.1	6062.3	6281.6	6354.6	6320.0	5968.1	5025.6	4666.0
71°	3088.8	3892.8	5019.9	5487.2	6058.4	6270.0	6462.3	6397.0	6233.5	5481.5	4929.5
72.5°	2092.6	3102.3	4502.5	5094.9	5856.5	6010.4	6298.9	6183.5	6148.8	5821.9	5175.6
75°	984.7	1546.3	2929.2	3825.5	4956.4	5104.5	5406.4	5264.1	5173.7	5285.3	4923.7
77.5°	725.1	844.3	1607.9	2377.2	3604.3	3813.9	4073.6	3898.6	3783.2	3894.7	3642.8
80°	659.7	663.5	832.8	1254.0	2150.3	2275.3	2373.4	2231.0	2056.0	2048.3	1815.6
82.5°	607.8	575.1	540.5	663.5	1102.1	1048.2	969.4	898.2	698.2	559.7	403.9
85°	386.6	423.1	384.7	363.5	438.5	361.6	286.6	275.0	194.3	130.8	121.2
87.5°	26.9	30.8	36.5	42.3	51.9	42.3	26.9	32.7	19.2	0.0	9.6
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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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-SL2-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2
2.5°	1138.6	1148.2	1152.1	1150.1	1146.3	1142.4	1129.0	1138.6	1125.1	1134.8	1123.2
5°	1144.4	1157.8	1159.8	1155.9	1152.1	1144.4	1121.3	1134.8	1119.4	1127.1	1109.8
7.5°	1142.4	1163.6	1165.5	1161.7	1154.0	1140.5	1117.4	1127.1	1102.1	1107.8	1084.8
10°	1132.8	1163.6	1165.5	1155.9	1144.4	1123.2	1096.3	1100.1	1075.1	1075.1	1044.4
12.5°	1123.2	1159.8	1169.4	1155.9	1136.7	1107.8	1077.1	1073.2	1044.4	1042.4	1007.8
15°	1123.2	1163.6	1177.1	1159.8	1130.9	1090.5	1054.0	1046.3	1013.6	1004.0	965.5
17.5°	1121.3	1163.6	1182.8	1159.8	1125.1	1073.2	1027.1	1019.4	977.0	961.7	917.4
20°	1119.4	1167.5	1186.7	1155.9	1107.8	1052.1	1000.1	984.7	938.6	913.6	861.6
22.5°	1117.4	1175.1	1190.5	1152.1	1096.3	1025.1	971.3	944.3	890.5	857.8	796.3
25°	1127.1	1184.8	1192.5	1148.2	1079.0	996.3	938.6	902.0	842.4	800.1	727.0
27.5°	1130.9	1194.4	1196.3	1140.5	1057.8	965.5	904.0	854.0	786.6	734.7	652.0
30°	1142.4	1196.3	1190.5	1125.1	1032.8	927.0	863.6	802.0	727.0	659.7	561.6
32.5°	1146.3	1202.1	1186.7	1107.8	1007.8	888.6	817.4	746.2	655.9	577.0	457.7
35°	1154.0	1205.9	1182.8	1098.2	980.9	848.2	769.3	688.5	584.7	484.7	348.1
37.5°	1165.5	1223.2	1192.5	1094.4	967.4	813.6	715.5	628.9	500.1	382.7	230.8
40°	1194.4	1257.8	1209.8	1100.1	957.8	784.7	663.5	567.4	403.9	282.7	159.6
42.5°	1252.1	1317.5	1254.0	1129.0	963.6	759.7	609.7	502.0	305.8	201.9	132.7
45°	1338.6	1394.4	1327.1	1177.1	986.7	746.2	559.7	434.7	219.3	161.6	121.2
47.5°	1465.6	1519.4	1434.8	1254.0	1027.1	740.5	507.8	363.5	169.3	146.2	117.3
50°	1632.9	1696.4	1590.6	1375.2	1102.1	746.2	452.0	296.2	148.1	142.3	115.4
52.5°	1838.7	1900.2	1794.5	1554.0	1225.2	778.9	392.4	257.7	140.4	140.4	113.5
55°	2071.4	2158.0	2054.1	1802.1	1415.6	850.1	355.8	244.3	140.4	142.3	111.6
57.5°	2346.4	2419.5	2327.2	2040.6	1644.4	967.4	359.7	257.7	140.4	142.3	109.6
60°	2615.7	2706.1	2600.3	2344.5	1906.0	1144.4	438.5	327.0	146.2	148.1	109.6
62.5°	2896.5	2965.8	2879.2	2609.9	2202.2	1363.6	596.2	473.1	169.3	175.0	117.3
65°	3204.2	3317.7	3227.3	3006.1	2621.5	1713.7	896.3	709.7	250.0	203.9	128.9
67.5°	3737.0	3783.2	3738.9	3537.0	3111.9	2002.2	1067.4	721.2	250.0	198.1	144.2
70°	4458.2	4354.4	4156.3	3779.3	3163.9	1796.4	765.5	440.4	213.5	188.5	151.9
71°	4625.6	4465.9	4173.6	3719.7	3056.1	1621.4	594.3	348.1	200.0	184.6	151.9
72.5°	4727.5	4489.0	4046.7	3544.7	2844.6	1277.1	392.4	273.1	182.7	175.0	146.2
75°	4594.8	4154.4	3573.5	3067.7	2329.1	663.5	246.2	207.7	155.8	151.9	126.9
77.5°	3648.5	3261.9	2636.9	2229.1	1498.3	294.3	176.9	157.7	123.1	119.2	98.1
80°	1702.1	1365.6	800.1	686.6	471.2	173.1	121.2	107.7	88.5	84.6	69.2
82.5°	309.7	232.7	180.8	175.0	157.7	101.9	71.2	65.4	55.8	53.9	44.2
85°	105.8	101.9	76.9	76.9	78.9	53.9	40.4	38.5	28.8	28.8	19.2
87.5°	1.9	9.6	9.6	13.5	11.5	9.6	3.8	5.8	1.9	5.8	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
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	1148.2	110°	114.0
1132.8	1117.4	1130.9	1117.4	1125.1	1109.8	1119.4	1113.6	1113.6	1107.8	1104.0	112.5°	136.0
1115.5	1096.3	1105.9	1090.5	1098.2	1075.1	1080.9	1071.3	1052.1	1040.5	1025.1	115°	158.0
1090.5	1061.7	1069.4	1046.3	1052.1	1021.3	1027.1	1009.7	973.2	950.1	927.0	117.5°	181.0
1046.3	1019.4	1021.3	992.4	990.5	959.7	954.0	930.9	877.0	838.6	807.8	120°	204.0
1002.0	971.3	967.4	932.8	927.0	890.5	882.8	846.3	767.4	692.4	644.3	122.5°	228.0
955.9	917.4	905.9	869.3	848.2	817.4	796.3	742.4	628.9	530.8	467.4	125°	254.0
904.0	854.0	836.6	794.3	763.6	717.4	686.6	613.5	467.4	361.6	317.3	127.5°	277.0
836.6	782.8	752.0	698.2	657.8	602.0	563.5	469.3	311.6	257.7	252.0	130°	301.0
761.6	698.2	659.7	592.4	542.4	482.8	421.2	317.3	221.2	209.6	217.3	132.5°	325.0
682.8	603.9	553.9	471.2	403.9	334.7	277.0	211.6	180.8	178.9	190.4	135°	348.0
588.5	498.1	427.0	328.9	267.3	213.5	188.5	167.3	153.9	155.8	167.3	137.5°	369.0
484.7	367.4	292.3	205.8	178.9	155.8	151.9	144.2	138.5	142.3	150.0	140°	390.0
361.6	234.6	188.5	148.1	146.2	132.7	136.6	132.7	130.8	132.7	138.5	142.5°	412.0
244.3	155.8	148.1	126.9	130.8	121.2	126.9	125.0	123.1	123.1	126.9	145°	433.0
169.3	128.9	132.7	117.3	123.1	115.4	121.2	119.2	117.3	115.4	117.3	147.5°	452.0
140.4	117.3	123.1	111.6	117.3	109.6	115.4	113.5	111.6	107.7	107.7	150°	469.0
128.9	111.6	117.3	105.8	113.5	103.9	111.6	107.7	103.9	100.0	101.9	152.5°	486.0
125.0	107.7	113.5	101.9	109.6	100.0	105.8	103.9	96.2	94.2	96.2	155°	503.0
121.2	105.8	111.6	100.0	105.8	96.2	101.9	98.1	90.4	88.5	90.4	157.5°	517.0
119.2	101.9	107.7	96.2	101.9	94.2	98.1	94.2	86.5	84.6	84.6	160°	530.0
117.3	100.0	105.8	92.3	98.1	86.5	92.3	88.5	80.8	78.9	78.9	162.5°	540.0
117.3	98.1	101.9	88.5	94.2	82.7	86.5	82.7	78.9	75.0	75.0	165°	550.0
115.4	94.2	100.0	84.6	88.5	78.9	82.7	78.9	73.1	71.2	71.2	167.5°	558.0
115.4	92.3	98.1	82.7	86.5	75.0	78.9	75.0	69.2	67.3	67.3	170°	564.0
121.2	96.2	100.0	84.6	86.5	75.0	76.9	71.2	65.4	65.4	63.5	172.5°	567.0
132.7	107.7	107.7	88.5	88.5	75.0	76.9	69.2	61.5	61.5	61.5	175°	570.0
144.2	119.2	117.3	94.2	92.3	75.0	75.0	65.4	57.7	57.7	57.7	177.5°	574.0
151.9	125.0	121.2	96.2	92.3	73.1	71.2	61.5	53.9	53.9	53.9	180°	576.0
150.0	125.0	119.2	94.2	88.5	69.2	69.2	59.6	51.9	51.9	50.0		
142.3	117.3	111.6	88.5	84.6	65.4	65.4	55.8	48.1	48.1	46.2		
121.2	100.0	94.2	75.0	71.2	57.7	55.8	46.2	42.3	40.4	40.4		
94.2	78.9	73.1	59.6	57.7	46.2	44.2	38.5	34.6	34.6	32.7		
67.3	55.8	51.9	40.4	36.5	30.8	32.7	28.8	26.9	26.9	25.0		
40.4	28.8	28.8	23.1	25.0	19.2	21.2	21.2	19.2	15.4	15.4		
21.2	13.5	17.3	9.6	13.5	5.8	9.6	7.7	7.7	5.8	5.8		
3.8	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		

'228139
 ISC-AF-1200-LED-E1-SL2-7030-ULG

REPORT NUMBER: P228139
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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°	1148.2	1148.2
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	1092.4	1094.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	1017.4	1021.3
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	909.7	915.5
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	780.9	784.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	615.5	615.5
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	430.8	434.7
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	302.0	303.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	253.9	255.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	227.0	228.9
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	201.9	203.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	175.0	176.9
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	157.7	159.6
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	142.3	144.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	128.9	128.9
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	119.2	119.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	109.6	109.6
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	103.9	103.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	98.1	98.1
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	92.3	92.3
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	86.5	88.5
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	80.8	80.8
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	75.0	75.0
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	69.2	71.2
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	65.4	65.4
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	61.5	61.5
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	59.6	59.6
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	55.8	55.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	51.9	51.9
										71°	50.0	50.0
										72.5°	46.2	46.2
										75°	40.4	38.5
										77.5°	32.7	32.7
										80°	25.0	23.1
										82.5°	15.4	13.5
										85°	5.8	3.8
										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

