

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: P271612

Luminaire Tested: **ISS-AF-1200-LED-E1-SL2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271612
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: ISS-AF-1200-LED-E1-SL2-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6807.7 lumens
Efficiency: N/A
Efficacy: 82.3 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

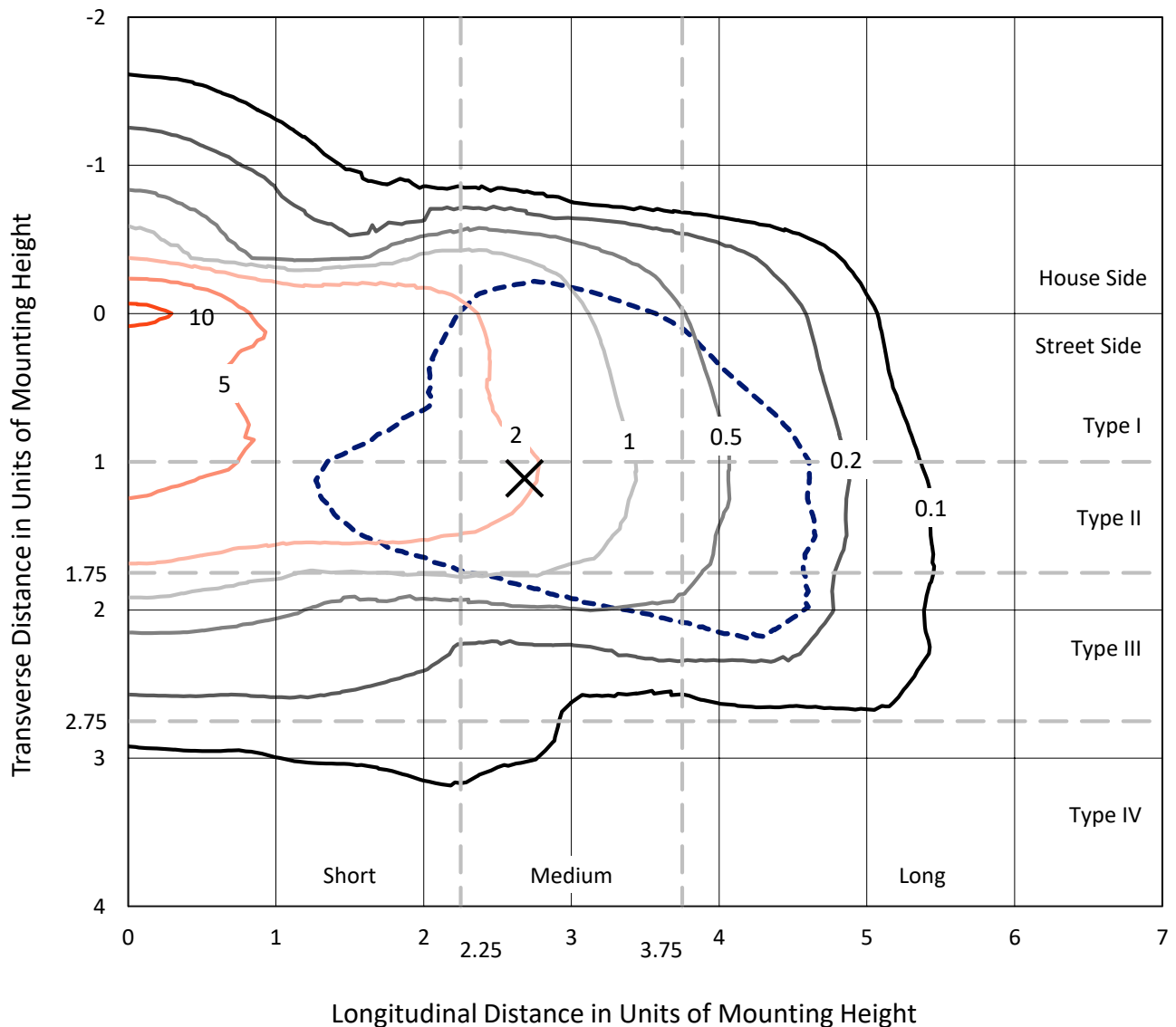
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

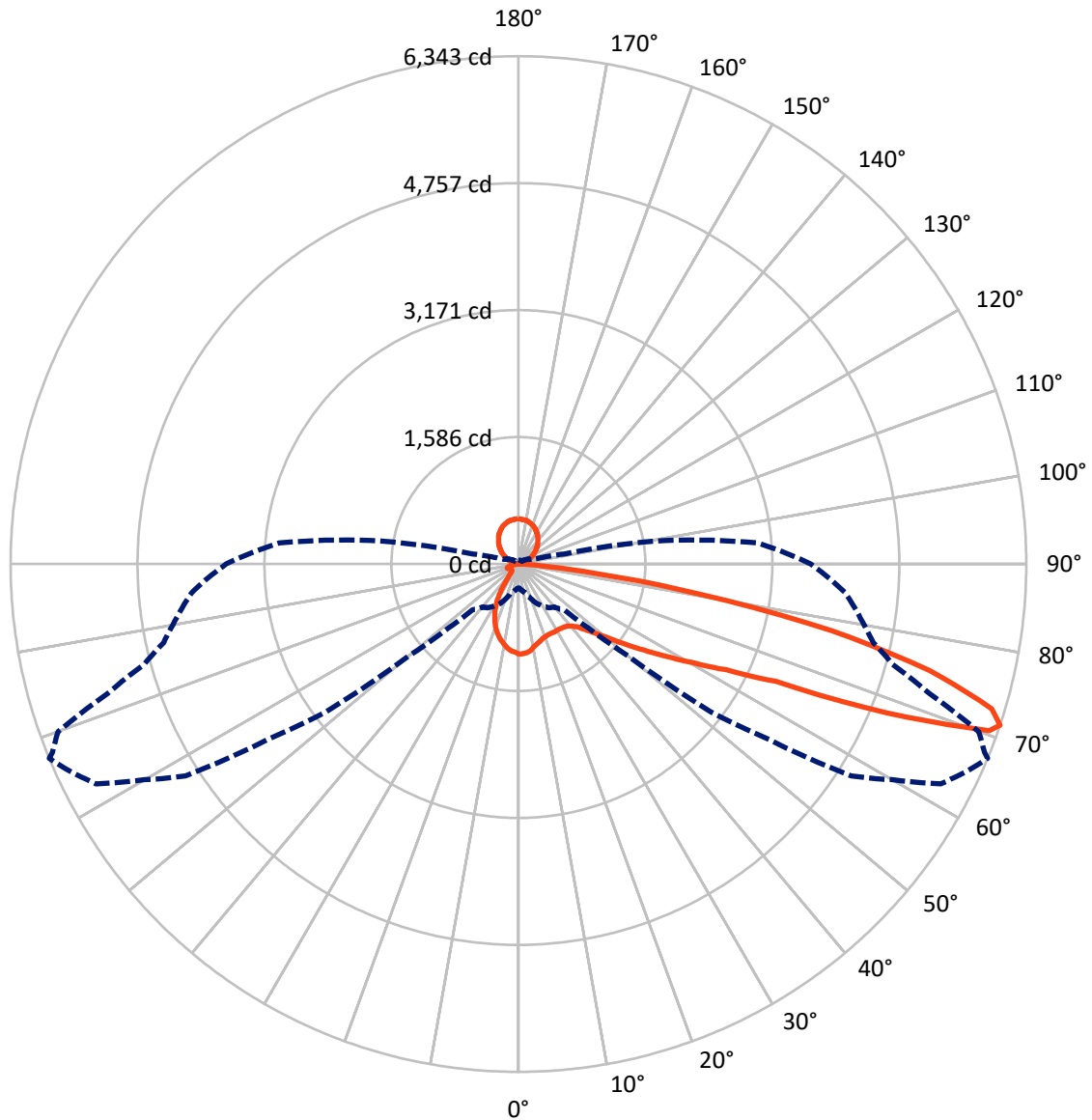
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 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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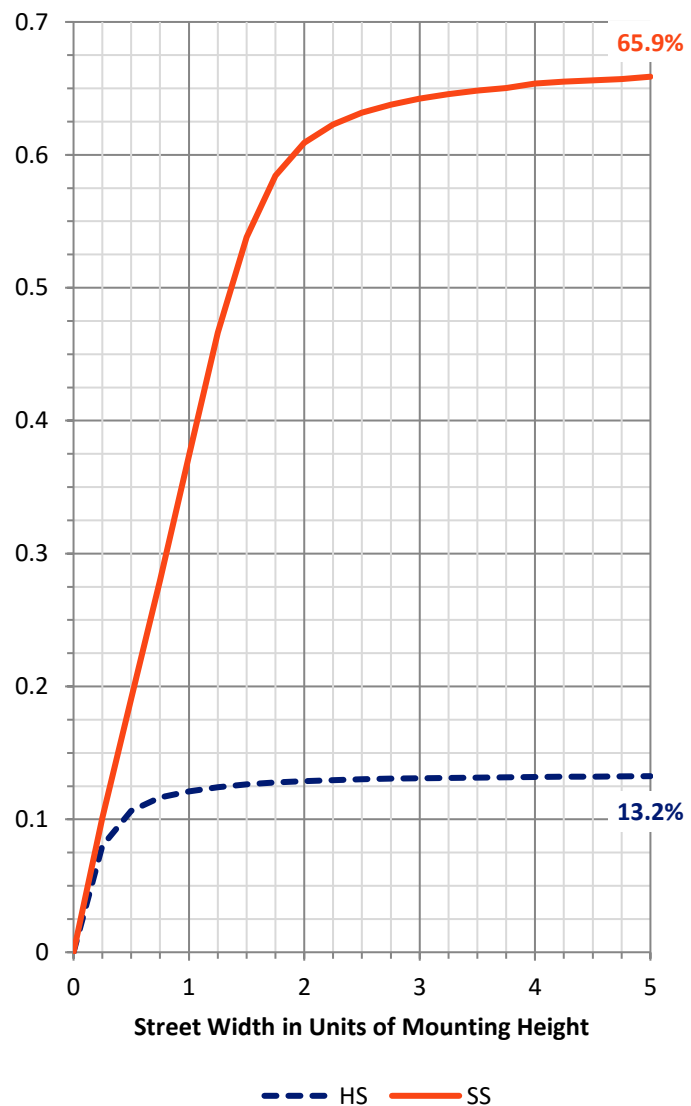
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	911.3	699.9	1611.2
	% Fixture	13.4	10.3	23.7
Street Side	Lumens	4496.7	699.9	5196.5
	% Fixture	66.1	10.3	76.3
Total	Lumens	5408.0	1399.8	6807.7
	% Fixture	79.4	20.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.4
10°-20°	235.3	3.5
20°-30°	319.9	4.7
30°-40°	437.3	6.4
40°-50°	658.9	9.7
50°-60°	1044.2	15.3
60°-70°	1382.3	20.3
70°-80°	1101.2	16.2
80°-90°	130.5	1.9
90°-100°	4.7	0.1
100°-110°	67.7	1.0
110°-120°	150.2	2.2
120°-130°	219.7	3.2
130°-140°	260.7	3.8
140°-150°	264.3	3.9
150°-160°	226.8	3.3
160°-170°	152.2	2.2
170°-180°	53.3	0.8
0°-90°	5408.0	79.4
0°-180°	6807.7	100.0

Coefficient of Utilization



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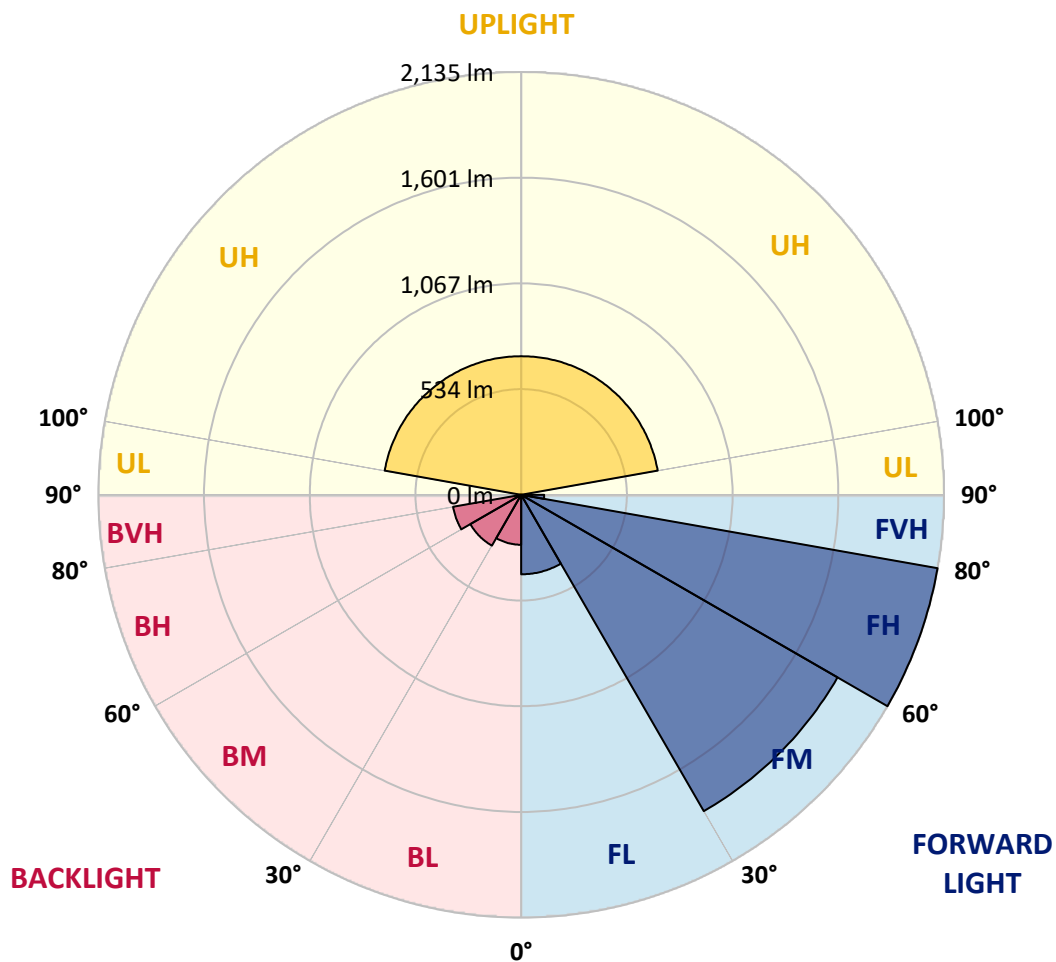
CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.3	5.9			
FM	(30°-60°)	1844.2	27.1			
FH	(60°-80°)	2134.8	31.4			G2/5000
FVH	(80°-90°)	116.4	1.7			G2/225
BL	(0°-30°)	252.3	3.7	B1/500		
BM	(30°-60°)	296.1	4.3	B1/1000		
BH	(60°-80°)	348.8	5.1	B1/500		G1/500
BVH	(80°-90°)	14.1	0.2			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	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°	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9
2.5°	1106.3	1102.4	1102.4	1108.1	1117.5	1109.9	1115.7	1115.7	1117.5	1123.2	1125.0
5°	1025.1	1017.5	1025.1	1032.6	1053.4	1049.6	1055.1	1060.9	1072.1	1074.1	1089.3
7.5°	951.5	947.6	953.3	968.5	994.9	987.2	994.9	1002.4	1015.5	1021.2	1036.4
10°	894.8	889.1	896.7	908.0	934.3	932.5	936.3	945.7	960.8	964.6	983.5
12.5°	853.2	853.2	857.1	872.2	894.8	892.8	904.2	909.8	923.1	926.8	947.6
15°	832.5	826.8	834.3	847.6	870.2	870.2	877.7	883.4	902.3	904.2	923.1
17.5°	813.5	815.5	817.4	832.5	853.2	849.4	858.9	862.7	883.4	879.7	902.3
20°	813.5	817.4	815.5	824.9	840.1	832.5	843.8	845.7	868.3	862.7	887.3
22.5°	836.2	840.1	834.3	832.5	838.2	832.5	838.2	841.9	858.9	855.2	877.7
25°	875.8	883.4	875.8	862.7	857.1	841.9	845.7	851.3	864.6	855.2	875.8
27.5°	938.2	943.8	930.6	917.3	891.0	874.1	868.3	866.4	881.6	866.4	883.4
30°	1010.0	1017.5	1006.1	981.6	943.8	915.6	904.2	898.6	908.0	885.3	902.3
32.5°	1087.3	1094.9	1087.3	1068.4	1017.5	976.0	960.8	947.6	955.2	925.0	932.5
35°	1166.6	1174.2	1181.7	1170.4	1104.3	1057.1	1032.6	1021.2	1019.4	981.6	983.5
37.5°	1236.4	1244.1	1268.6	1279.8	1219.4	1155.3	1132.7	1108.1	1109.9	1057.1	1057.1
40°	1321.4	1330.7	1362.9	1389.4	1349.7	1272.3	1245.9	1219.4	1219.4	1149.7	1151.4
42.5°	1436.5	1447.9	1468.5	1504.5	1491.3	1412.0	1383.7	1347.7	1351.6	1268.6	1266.6
45°	1598.8	1606.3	1606.3	1629.1	1631.0	1555.4	1536.6	1500.7	1508.3	1402.5	1408.3
47.5°	1810.4	1800.8	1763.1	1776.3	1791.4	1712.1	1695.1	1672.6	1682.0	1568.7	1580.0
50°	2006.6	1999.1	1921.7	1925.4	1980.2	1899.1	1893.4	1865.0	1878.3	1765.0	1782.0
52.5°	2080.3	2067.0	1989.7	2031.2	2184.0	2138.8	2148.2	2135.0	2142.5	2021.7	2018.0
55°	1997.2	1997.2	1950.0	2025.5	2337.0	2361.6	2438.9	2469.1	2501.2	2380.4	2354.0
57.5°	1766.9	1782.0	1789.5	1923.6	2312.5	2418.1	2565.4	2693.7	2858.0	2850.4	2890.0
60°	1385.5	1412.0	1455.4	1674.4	2206.8	2380.4	2571.1	2763.5	2990.1	3135.4	3350.7
62.5°	972.1	994.9	1030.6	1181.7	1899.1	2197.3	2472.9	2769.3	3058.1	3286.4	3569.7
65°	660.7	683.3	758.9	841.9	1145.9	1580.0	2001.0	2491.8	2931.6	3356.3	3737.7
67.5°	475.7	488.9	547.4	687.1	762.6	841.9	998.6	1576.3	2118.0	2973.1	3530.0
70°	356.8	370.0	422.8	577.6	670.1	690.9	728.6	830.7	968.5	1670.6	2401.2
71°	298.2	317.1	381.3	543.7	666.4	683.3	700.4	760.8	806.0	1181.7	1782.0
72.5°	209.6	222.8	283.1	502.2	640.0	679.6	719.3	717.4	713.5	806.0	1077.9
75°	134.0	134.0	134.0	283.1	683.3	658.7	673.9	755.0	713.5	677.7	709.8
77.5°	105.7	103.8	98.2	141.6	534.2	668.2	707.9	728.6	768.3	707.9	675.7
80°	79.3	77.4	77.4	88.8	247.3	432.3	598.5	664.5	692.9	753.2	687.1
82.5°	41.5	41.5	45.4	52.9	92.4	151.1	309.6	509.7	570.1	573.8	579.6
85°	13.3	11.3	15.1	24.5	39.6	49.0	86.9	205.7	305.9	370.0	390.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	7.5	13.3	17.0
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	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3



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CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9
2.5°	1119.4	1126.9	1121.3	1128.8	1119.4	1130.8	1121.3	1126.9	1128.8	1121.3	1130.8
5°	1079.8	1102.4	1094.9	1111.8	1104.3	1119.4	1111.8	1126.9	1126.9	1121.3	1134.5
7.5°	1030.6	1053.4	1055.1	1072.1	1072.1	1091.1	1091.1	1106.3	1113.8	1113.8	1132.7
10°	981.6	1002.4	1006.1	1025.1	1028.8	1051.5	1051.5	1072.1	1087.3	1093.0	1115.7
12.5°	943.8	970.3	970.3	991.0	987.2	1021.2	1025.1	1043.9	1059.0	1072.1	1102.4
15°	921.2	945.7	945.7	966.5	962.7	996.7	1002.4	1021.2	1043.9	1051.5	1093.0
17.5°	898.6	923.1	917.3	945.7	943.8	981.6	977.9	1006.1	1025.1	1036.4	1083.5
20°	879.7	908.0	904.2	932.5	925.0	966.5	966.5	994.9	1013.6	1023.1	1077.9
22.5°	870.2	900.4	892.8	921.2	915.6	957.1	957.1	985.4	1006.1	1021.2	1076.0
25°	870.2	896.7	889.1	921.2	911.8	957.1	955.2	983.5	1004.2	1017.5	1077.9
27.5°	874.1	900.4	894.8	925.0	917.3	957.1	960.8	985.4	1006.1	1021.2	1081.6
30°	887.3	911.8	898.6	926.8	921.2	958.9	957.1	983.5	1004.2	1023.1	1081.6
32.5°	915.6	928.8	911.8	936.3	925.0	962.7	962.7	981.6	1006.1	1028.8	1081.6
35°	955.2	964.6	938.2	955.2	934.3	972.1	970.3	991.0	1010.0	1028.8	1085.4
37.5°	1011.9	1023.1	981.6	996.7	962.7	993.0	985.4	1010.0	1028.8	1040.1	1104.3
40°	1096.7	1100.5	1045.8	1057.1	1010.0	1036.4	1017.5	1051.5	1060.9	1068.4	1132.7
42.5°	1200.6	1204.4	1134.5	1142.0	1081.6	1104.3	1072.1	1108.1	1121.3	1119.4	1189.3
45°	1329.0	1330.7	1251.6	1257.2	1187.4	1206.2	1166.6	1196.8	1206.2	1200.6	1272.3
47.5°	1468.5	1483.7	1395.0	1402.5	1329.0	1338.4	1289.2	1323.2	1323.2	1317.6	1391.3
50°	1653.6	1676.2	1572.4	1583.8	1498.8	1506.4	1449.8	1485.7	1481.8	1466.8	1549.8
52.5°	1883.9	1904.7	1795.3	1810.4	1719.6	1723.5	1653.6	1695.1	1683.9	1659.3	1755.6
55°	2165.2	2167.1	2065.1	2078.4	1987.8	1982.1	1895.2	1946.2	1929.2	1895.2	1984.0
57.5°	2616.3	2561.6	2393.6	2389.9	2291.7	2284.1	2172.7	2235.1	2206.8	2135.0	2252.1
60°	3343.1	3360.1	2931.6	2865.5	2682.4	2648.5	2501.2	2572.9	2539.0	2421.9	2537.0
62.5°	3752.8	4022.7	3996.3	3758.4	3286.4	3158.1	2908.9	2993.9	2905.2	2733.5	2841.0
65°	4056.7	4422.9	4634.3	4862.7	4651.3	4126.5	3537.5	3656.6	3439.4	3112.8	3216.7
67.5°	4169.9	4611.7	5057.2	5381.8	5602.7	5642.3	4960.9	4993.0	4458.7	3805.6	3818.9
70°	3577.2	4228.4	5100.6	5512.1	5950.0	6165.2	6236.9	6203.0	5857.6	4932.5	4579.6
71°	3031.6	3820.7	4926.9	5385.6	5946.2	6153.9	6342.7	6278.5	6118.1	5379.9	4838.2
72.5°	2053.9	3044.9	4419.1	5000.5	5748.1	5899.1	6182.2	6068.9	6034.9	5714.1	5079.7
75°	966.5	1517.7	2874.9	3754.6	4864.6	5009.9	5306.3	5166.6	5077.8	5187.4	4832.5
77.5°	711.6	828.7	1578.1	2333.2	3537.5	3743.2	3998.2	3826.4	3713.1	3822.6	3575.3
80°	647.5	651.2	817.4	1230.8	2110.5	2233.2	2329.5	2189.7	2018.0	2010.4	1782.0
82.5°	596.6	564.5	530.4	651.2	1081.6	1028.8	951.5	881.6	685.2	549.3	396.4
85°	379.4	415.3	377.6	356.8	430.4	354.9	281.3	269.9	190.7	128.4	118.9
87.5°	26.4	30.3	35.8	41.5	50.9	41.5	26.4	32.1	18.9	0.0	9.4
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°	11.8	12.8	11.3	9.8	8.4	6.8	6.4	6.3	5.9	5.4	4.9
100°	30.9	31.4	30.9	30.5	29.9	29.5	28.7	28.6	27.9	27.3	26.5
102.5°	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.5	48.1	47.6	47.1
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.2	69.1	68.7	68.2	67.7
107.5°	90.8	91.3	91.1	90.8	90.5	90.3	90.1	90.0	89.8	89.5	89.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.6	111.4	111.1	110.9
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.3	133.2	132.9	132.7	132.5
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.3	177.1	176.9	176.7
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.0	224.3	224.6	224.8
125°	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3	249.3
127.5°	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.2	272.4	272.6	272.8
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.7	295.9	296.2	296.4
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.3	319.4	319.8	320.0
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.7	341.9	342.1	342.3	342.5
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.5	362.6	362.9	363.2
140°	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.4	383.8	384.3	384.7
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.7	404.9	405.1	405.3
145°	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.3	425.4	425.8	426.0
147.5°	445.4	445.6	445.1	444.6	444.1	443.7	443.9	443.9	444.1	444.4	444.6
150°	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3	460.3
152.5°	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0	477.0
155°	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.0	494.2	494.4	494.7
157.5°	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.7	507.9	508.2	508.4
160°	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2	520.2
162.5°	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.4	529.0	528.6	528.0
165°	542.6	542.8	541.9	541.3	540.6	539.8	539.3	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.0	548.1	548.4	548.7
170°	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.2	554.5	555.1	555.5
172.5°	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.8	556.9	557.3	557.5
175°	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.8	558.5	557.9	557.5
177.5°	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9
2.5°	1117.5	1126.9	1130.8	1128.8	1125.0	1121.3	1108.1	1117.5	1104.3	1113.8	1102.4
5°	1123.2	1136.4	1138.3	1134.5	1130.8	1123.2	1100.5	1113.8	1098.6	1106.3	1089.3
7.5°	1121.3	1142.0	1143.9	1140.2	1132.7	1119.4	1096.7	1106.3	1081.6	1087.3	1064.7
10°	1111.8	1142.0	1143.9	1134.5	1123.2	1102.4	1076.0	1079.8	1055.1	1055.1	1025.1
12.5°	1102.4	1138.3	1147.8	1134.5	1115.7	1087.3	1057.1	1053.4	1025.1	1023.1	989.1
15°	1102.4	1142.0	1155.3	1138.3	1109.9	1070.3	1034.5	1026.9	994.9	985.4	947.6
17.5°	1100.5	1142.0	1160.9	1138.3	1104.3	1053.4	1008.1	1000.5	958.9	943.8	900.4
20°	1098.6	1145.9	1164.7	1134.5	1087.3	1032.6	981.6	966.5	921.2	896.7	845.7
22.5°	1096.7	1153.3	1168.4	1130.8	1076.0	1006.1	953.3	926.8	874.1	841.9	781.5
25°	1106.3	1162.9	1170.4	1126.9	1059.0	977.9	921.2	885.3	826.8	785.3	713.5
27.5°	1109.9	1172.3	1174.2	1119.4	1038.2	947.6	887.3	838.2	772.0	721.1	640.0
30°	1121.3	1174.2	1168.4	1104.3	1013.6	909.8	847.6	787.2	713.5	647.5	551.2
32.5°	1125.0	1179.8	1164.7	1087.3	989.1	872.2	802.3	732.4	643.7	566.3	449.2
35°	1132.7	1183.6	1160.9	1077.9	962.7	832.5	755.0	675.7	573.8	475.7	341.6
37.5°	1143.9	1200.6	1170.4	1074.1	949.5	798.5	702.3	617.2	490.8	375.6	226.6
40°	1172.3	1234.5	1187.4	1079.8	940.1	770.2	651.2	556.9	396.4	277.5	156.7
42.5°	1228.9	1293.1	1230.8	1108.1	945.7	745.6	598.5	492.7	300.1	198.2	130.3
45°	1313.8	1368.6	1302.5	1155.3	968.5	732.4	549.3	426.7	215.2	158.6	118.9
47.5°	1438.5	1491.3	1408.3	1230.8	1008.1	726.8	498.4	356.8	166.2	143.5	115.2
50°	1602.7	1665.0	1561.2	1349.7	1081.6	732.4	443.7	290.7	145.3	139.7	113.3
52.5°	1804.7	1865.0	1761.3	1525.2	1202.5	764.5	385.1	253.0	137.8	137.8	111.4
55°	2033.0	2118.0	2016.1	1768.8	1389.4	834.3	349.2	239.8	137.8	139.7	109.5
57.5°	2303.0	2374.7	2284.1	2002.8	1614.0	949.5	353.0	253.0	137.8	139.7	107.5
60°	2567.3	2656.0	2552.2	2301.1	1870.7	1123.2	430.4	321.0	143.5	145.3	107.5
62.5°	2842.9	2910.9	2825.9	2561.6	2161.4	1338.4	585.2	464.3	166.2	171.8	115.2
65°	3144.9	3256.3	3167.5	2950.4	2572.9	1682.0	879.7	696.5	245.3	200.1	126.5
67.5°	3667.8	3713.1	3669.7	3471.5	3054.2	1965.1	1047.6	707.9	245.3	194.4	141.6
70°	4375.6	4273.8	4079.3	3709.3	3105.4	1763.1	751.3	432.3	209.6	185.1	149.1
71°	4539.9	4383.2	4096.3	3650.8	2999.5	1591.3	583.3	341.6	196.3	181.2	149.1
72.5°	4639.9	4405.8	3971.8	3479.0	2791.9	1253.5	385.1	268.1	179.3	171.8	143.5
75°	4509.7	4077.5	3507.3	3010.8	2286.0	651.2	241.6	203.8	152.9	149.1	124.5
77.5°	3580.9	3201.5	2588.1	2187.8	1470.5	288.9	173.6	154.8	120.8	117.0	96.3
80°	1670.6	1340.3	785.3	673.9	462.4	169.9	118.9	105.7	86.9	83.0	67.9
82.5°	304.0	228.3	177.4	171.8	154.8	100.0	69.9	64.2	54.8	52.9	43.4
85°	103.8	100.0	75.5	75.5	77.4	52.9	39.6	37.8	28.3	28.3	18.9
87.5°	1.9	9.4	9.4	13.3	11.3	9.4	3.8	5.7	1.9	5.7	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°	4.7	4.4	4.0	4.0	4.0	4.4	4.7	4.9	5.4	5.9	6.4
100°	26.3	26.1	25.5	24.5	25.5	26.1	26.3	26.5	27.3	27.9	28.7
102.5°	47.3	47.6	48.1	47.1	48.1	47.6	47.3	47.1	47.6	48.1	48.6
105°	68.2	68.7	69.7	67.7	69.7	68.7	68.2	67.7	68.2	68.7	69.2
107.5°	89.5	89.8	90.3	89.3	90.3	89.8	89.5	89.3	89.5	89.8	90.1



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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°	111.1	111.4	111.9	110.9	111.9	111.4	111.1	110.9	111.1	111.4	111.7	0°
112.5°	132.9	133.5	134.5	132.5	134.5	133.5	132.9	132.5	132.7	132.9	133.3	2.5°
115°	155.6	156.0	157.0	156.0	157.0	156.0	155.6	155.0	155.0	155.0	155.0	5°
117.5°	177.1	177.7	178.7	176.7	178.7	177.7	177.1	176.7	176.9	177.1	177.4	7.5°
120°	200.7	201.2	202.2	200.2	202.2	201.2	200.7	200.2	200.2	200.2	200.2	10°
122.5°	225.7	226.7	228.7	227.7	228.7	226.7	225.7	224.8	224.6	224.3	223.9	12.5°
125°	250.1	250.8	252.2	251.3	252.2	250.8	250.1	249.3	249.3	249.3	249.3	15°
127.5°	273.6	274.3	275.8	272.8	275.8	274.3	273.6	272.8	272.6	272.4	272.1	17.5°
130°	297.2	297.9	299.3	297.4	299.3	297.9	297.2	296.4	296.2	295.9	295.6	20°
132.5°	320.8	321.4	322.9	321.0	322.9	321.4	320.8	320.0	319.8	319.4	319.2	22.5°
135°	343.1	343.5	344.5	343.5	344.5	343.5	343.1	342.5	342.3	342.1	341.7	25°
137.5°	364.2	365.1	367.0	365.1	367.0	365.1	364.2	363.2	362.9	362.6	362.4	27.5°
140°	385.7	386.7	388.7	386.7	388.7	386.7	385.7	384.7	384.3	383.8	383.3	30°
142.5°	406.1	406.8	408.3	407.3	408.3	406.8	406.1	405.3	405.1	404.9	404.6	32.5°
145°	426.8	427.4	428.9	427.0	428.9	427.4	426.8	426.0	425.8	425.4	425.2	35°
147.5°	445.4	446.1	447.5	444.6	447.5	446.1	445.4	444.6	444.4	444.1	443.9	37.5°
150°	461.3	462.3	464.2	461.3	464.2	462.3	461.3	460.3	460.3	460.3	460.3	40°
152.5°	477.8	478.4	480.0	477.0	480.0	478.4	477.8	477.0	477.0	477.0	477.0	42.5°
155°	495.4	496.1	497.6	495.7	497.6	496.1	495.4	494.7	494.4	494.2	493.9	45°
157.5°	509.6	510.9	513.3	510.3	513.3	510.9	509.6	508.4	508.2	507.9	507.6	47.5°
160°	520.9	521.6	523.2	521.2	523.2	521.6	520.9	520.2	520.2	520.2	520.2	50°
162.5°	528.6	529.0	530.0	527.0	530.0	529.0	528.6	528.0	528.6	529.0	529.6	52.5°
165°	538.4	538.8	539.8	537.8	539.8	538.8	538.4	537.8	538.4	538.8	539.3	55°
167.5°	549.7	550.6	552.5	550.6	552.5	550.6	549.7	548.7	548.4	548.1	547.9	57.5°
170°	556.7	557.9	560.5	558.5	560.5	557.9	556.7	555.5	555.1	554.5	554.1	60°
172.5°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.3	556.9	556.7	62.5°
175°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.9	558.5	558.9	65°
177.5°	564.1	564.9	566.3	563.3	566.3	564.9	564.1	563.3	563.3	563.3	563.3	67.5°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	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°
1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	110°	111.9
1111.8	1096.7	1109.9	1096.7	1104.3	1089.3	1098.6	1093.0	1093.0	1087.3	1083.5	112.5°	133.5
1094.9	1076.0	1085.4	1070.3	1077.9	1055.1	1060.9	1051.5	1032.6	1021.2	1006.1	115°	155.0
1070.3	1042.0	1049.6	1026.9	1032.6	1002.4	1008.1	991.0	955.2	932.5	909.8	117.5°	177.7
1026.9	1000.5	1002.4	974.0	972.1	942.0	936.3	913.7	860.8	823.0	792.8	120°	200.2
983.5	953.3	949.5	915.6	909.8	874.1	866.4	830.7	753.2	679.6	632.4	122.5°	223.8
938.2	900.4	889.1	853.2	832.5	802.3	781.5	728.6	617.2	520.9	458.8	125°	249.3
887.3	838.2	821.1	779.5	749.5	704.1	673.9	602.1	458.8	354.9	311.4	127.5°	271.8
821.1	768.3	738.0	685.2	645.6	590.8	553.1	460.7	305.9	253.0	247.3	130°	295.5
747.5	685.2	647.5	581.5	532.3	473.9	413.4	311.4	217.1	205.7	213.3	132.5°	319.0
670.1	592.7	543.7	462.4	396.4	328.5	271.8	207.7	177.4	175.6	186.8	135°	341.5
577.6	488.9	419.1	322.9	262.3	209.6	185.1	164.2	151.1	152.9	164.2	137.5°	362.2
475.7	360.6	286.9	202.0	175.6	152.9	149.1	141.6	135.9	139.7	147.2	140°	382.8
354.9	230.2	185.1	145.3	143.5	130.3	134.0	130.3	128.4	130.3	135.9	142.5°	404.3
239.8	152.9	145.3	124.5	128.4	118.9	124.5	122.7	120.8	120.8	124.5	145°	425.0
166.2	126.5	130.3	115.2	120.8	113.3	118.9	117.0	115.2	113.3	115.2	147.5°	443.7
137.8	115.2	120.8	109.5	115.2	107.5	113.3	111.4	109.5	105.7	105.7	150°	460.3
126.5	109.5	115.2	103.8	111.4	102.0	109.5	105.7	102.0	98.2	100.0	152.5°	477.0
122.7	105.7	111.4	100.0	107.5	98.2	103.8	102.0	94.4	92.4	94.4	155°	493.7
118.9	103.8	109.5	98.2	103.8	94.4	100.0	96.3	88.8	86.9	88.8	157.5°	507.5
117.0	100.0	105.7	94.4	100.0	92.4	96.3	92.4	84.9	83.0	83.0	160°	520.2
115.2	98.2	103.8	90.5	96.3	84.9	90.5	86.9	79.3	77.4	77.4	162.5°	530.0
115.2	96.3	100.0	86.9	92.4	81.2	84.9	81.2	77.4	73.6	73.6	165°	539.8
113.3	92.4	98.2	83.0	86.9	77.4	81.2	77.4	71.8	69.9	69.9	167.5°	547.7
113.3	90.5	96.3	81.2	84.9	73.6	77.4	73.6	67.9	66.0	66.0	170°	553.5
118.9	94.4	98.2	83.0	84.9	73.6	75.5	69.9	64.2	64.2	62.3	172.5°	556.5
130.3	105.7	105.7	86.9	86.9	73.6	75.5	67.9	60.4	60.4	60.4	175°	559.5
141.6	117.0	115.2	92.4	90.5	73.6	73.6	64.2	56.6	56.6	56.6	177.5°	563.3
149.1	122.7	118.9	94.4	90.5	71.8	69.9	60.4	52.9	52.9	52.9	180°	565.3
147.2	122.7	117.0	92.4	86.9	67.9	67.9	58.5	50.9	50.9	49.0		
139.7	115.2	109.5	86.9	83.0	64.2	64.2	54.8	47.3	47.3	45.4		
118.9	98.2	92.4	73.6	69.9	56.6	54.8	45.4	41.5	39.6	39.6		
92.4	77.4	71.8	58.5	56.6	45.4	43.4	37.8	34.0	34.0	32.1		
66.0	54.8	50.9	39.6	35.8	30.3	32.1	28.3	26.4	26.4	24.5		
39.6	28.3	28.3	22.6	24.5	18.9	20.8	20.8	18.9	15.1	15.1		
20.8	13.3	17.0	9.4	13.3	5.7	9.4	7.5	7.5	5.7	5.7		
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		
6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0	3.0	2.0		
29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6	13.7	9.8		
49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2	37.3	31.4		
69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8	59.8	55.0		
90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3	82.5	78.5		

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 ISS-AF-1200-LED-E1-SL2-7027-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	104.0	101.1	0°	1126.9	1126.9
133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	126.6	123.7	2.5°	1072.1	1074.1
155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	148.2	146.2	5°	998.6	1002.4
177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	170.8	168.8	7.5°	892.8	898.6
200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	194.3	192.3	10°	766.4	770.2
223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	218.8	216.9	12.5°	604.1	604.1
249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	243.4	242.5	15°	422.8	426.7
272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	267.0	265.0	17.5°	296.4	298.2
295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	288.5	287.5	20°	249.2	251.1
319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	312.1	311.2	22.5°	222.8	224.7
341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	334.7	332.7	25°	198.2	200.1
362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	357.3	356.3	27.5°	171.8	173.6
382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	378.8	377.8	30°	154.8	156.7
404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	399.5	400.5	32.5°	139.7	141.6
425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	420.0	420.0	35°	126.5	126.5
444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	439.7	438.7	37.5°	117.0	117.0
460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	456.4	455.4	40°	107.5	107.5
477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	473.0	474.0	42.5°	102.0	102.0
493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	491.7	492.7	45°	96.3	96.3
507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	506.5	507.5	47.5°	90.5	90.5
520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	519.2	519.2	50°	84.9	86.9
530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	528.0	529.0	52.5°	79.3	79.3
540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	537.8	538.8	55°	73.6	73.6
548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	547.7	548.7	57.5°	67.9	69.9
553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	554.5	555.5	60°	64.2	64.2
556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	556.5	558.5	62.5°	60.4	60.4
560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	558.5	559.5	65°	58.5	58.5
564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	563.3	564.3	67.5°	54.8	54.8
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	50.9	50.9
										71°	49.0	49.0
										72.5°	45.4	45.4
										75°	39.6	37.8
										77.5°	32.1	32.1
										80°	24.5	22.6
										82.5°	15.1	13.3
										85°	5.7	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°	7.8	7.8
										102.5°	27.5	27.5
										105°	53.0	53.0
										107.5°	75.5	76.5



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	100.1	99.2
112.5°	121.7	121.7
115°	144.3	143.3
117.5°	166.8	165.8
120°	191.4	189.5
122.5°	216.0	215.0
125°	241.5	239.5
127.5°	264.0	262.0
130°	286.6	284.7
132.5°	308.2	307.2
135°	330.8	329.8
137.5°	353.3	352.3
140°	375.9	375.0
142.5°	398.5	396.5
145°	418.1	417.2
147.5°	435.8	435.8
150°	453.5	452.5
152.5°	471.1	470.2
155°	490.7	489.8
157.5°	505.5	503.5
160°	517.2	515.3
162.5°	526.0	525.1
165°	536.8	535.9
167.5°	545.7	544.7
170°	552.5	551.6
172.5°	555.5	554.5
175°	558.5	556.5
177.5°	562.4	561.4
180°	565.3	565.3

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

