

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: P228076

Luminaire Tested: **ISS-AF-1000-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228076
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-1000-LED-E1-SL2-8030-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) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5889.2 lumens
Efficiency: N/A
Efficacy: 82.6 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 - G1

Input Watts (W): 71.3
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

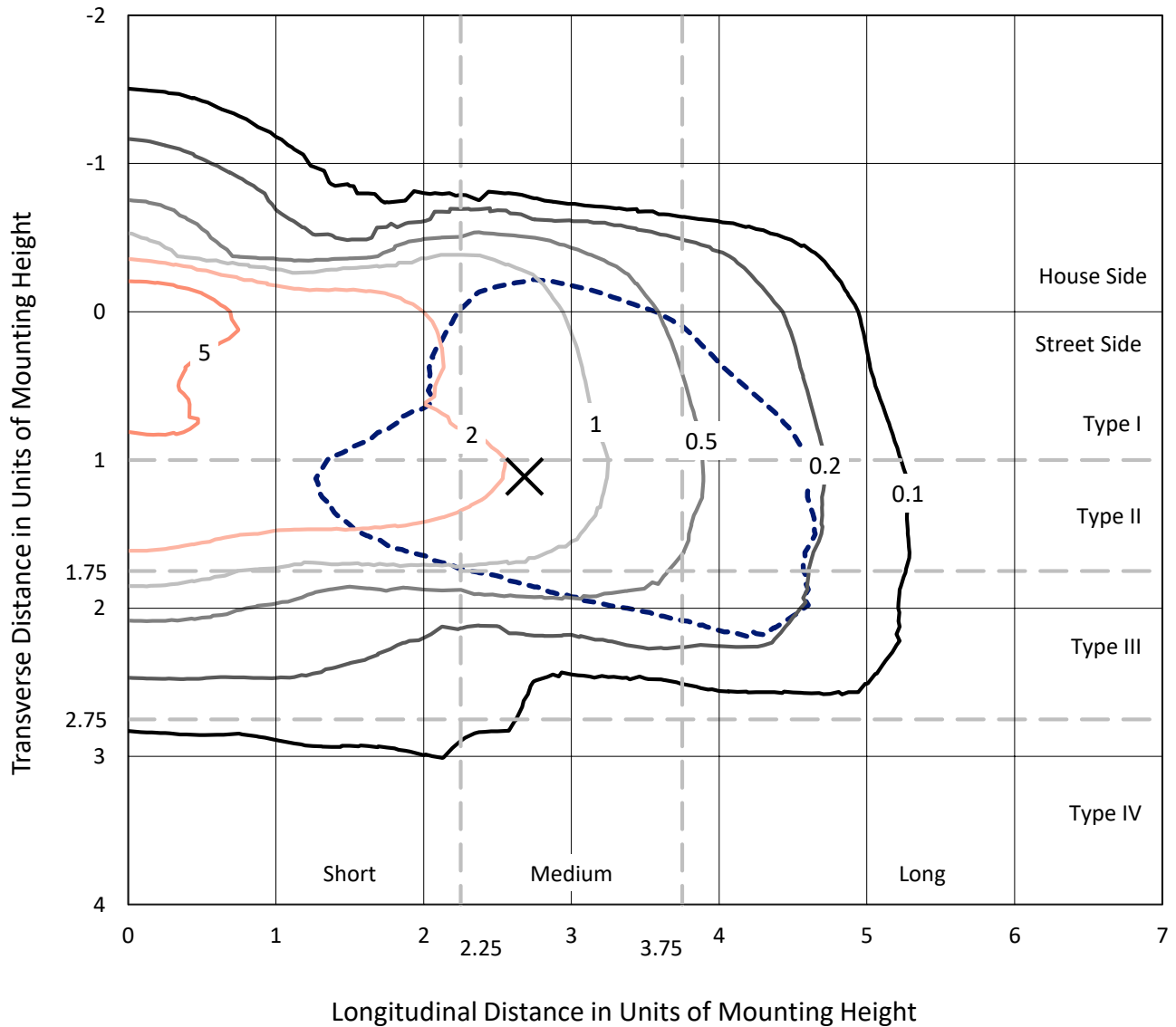


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Iso-Footcandle Lines of Horizontal Illumination

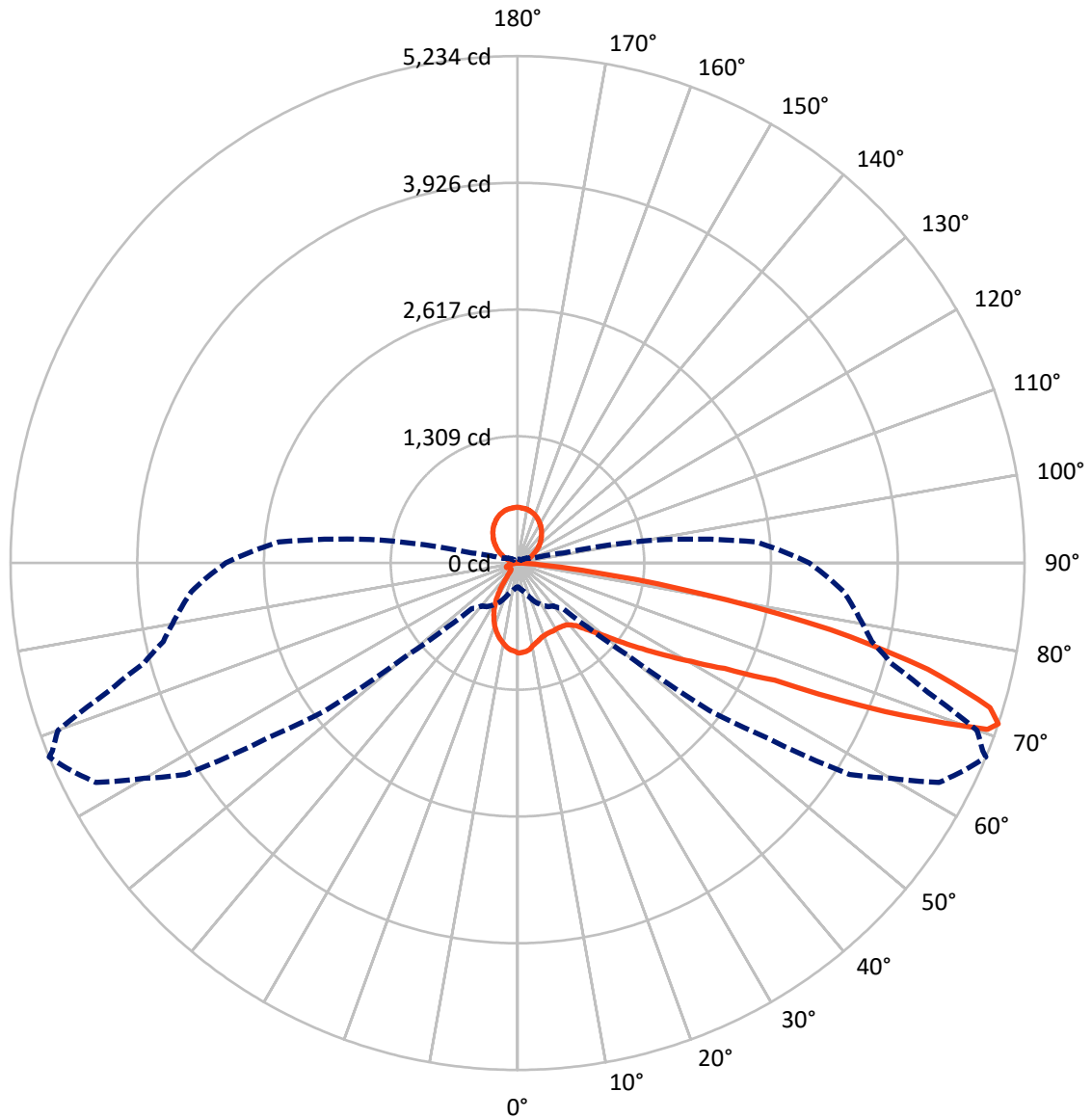
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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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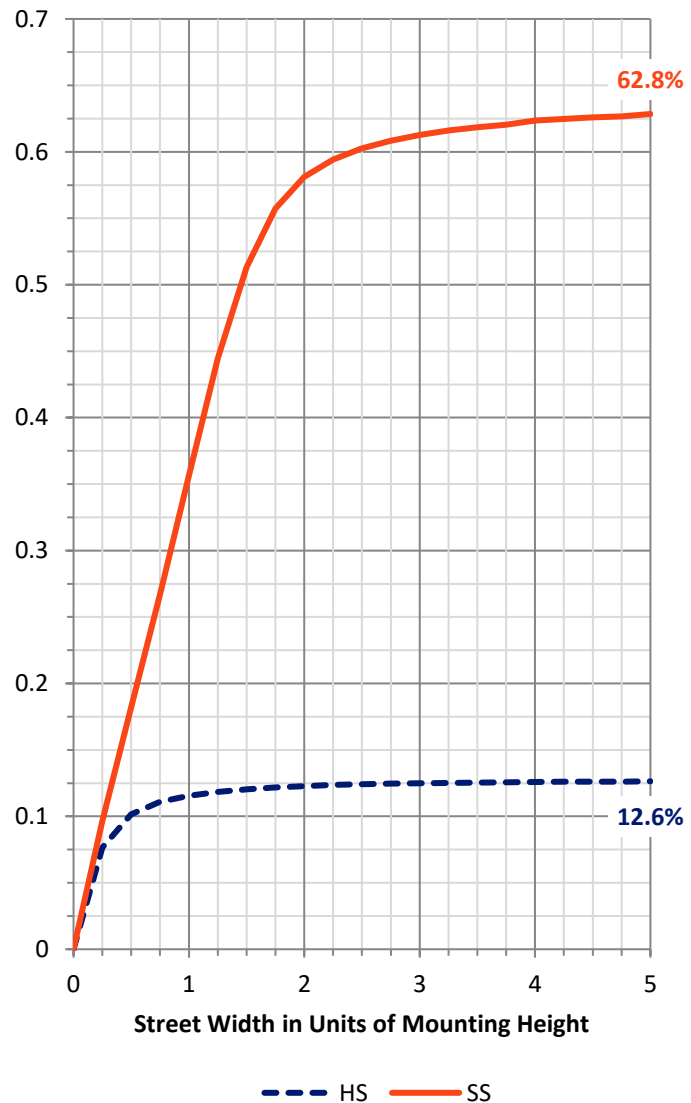
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.1	713.1	1465.2
	% Fixture	12.8	12.1	24.9
Street Side	Lumens	3710.9	713.1	4424.0
	% Fixture	63.0	12.1	75.1
Total	Lumens	4463.0	1426.2	5889.2
	% Fixture	75.8	24.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.4
10°-20°	194.2	3.3
20°-30°	264.0	4.5
30°-40°	360.9	6.1
40°-50°	543.7	9.2
50°-60°	861.7	14.6
60°-70°	1140.8	19.4
70°-80°	908.8	15.4
80°-90°	107.7	1.8
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.6
120°-130°	223.9	3.8
130°-140°	265.6	4.5
140°-150°	269.3	4.6
150°-160°	231.1	3.9
160°-170°	155.1	2.6
170°-180°	54.3	0.9
0°-90°	4463.0	75.8
0°-180°	5889.2	100.0



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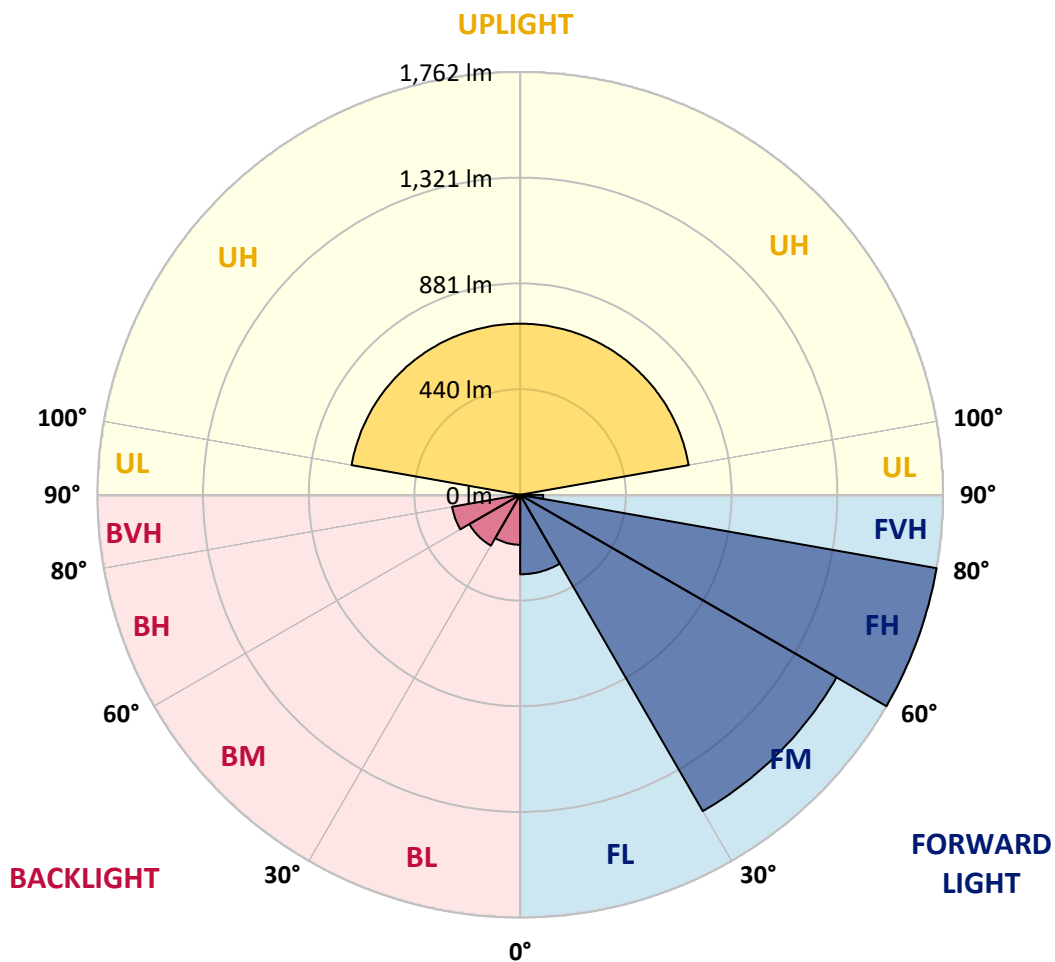
CATALOG NUMBER: ISS-AF-1000-LED-E1-SL2-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.1	5.6			
FM	(30°-60°)	1522.0	25.8			
FH	(60°-80°)	1761.7	29.9			G1/1800
FVH	(80°-90°)	96.1	1.6			G1/100
BL	(0°-30°)	208.2	3.5	B1/500		
BM	(30°-60°)	244.4	4.1	B1/1000		
BH	(60°-80°)	287.9	4.9	B1/500		G1/500
BVH	(80°-90°)	11.7	0.2			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	12.1		U4/1000	

BUG Rating: B1-U5-G1

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°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0
2.5°	912.9	909.8	909.8	914.5	922.2	916.0	920.7	920.7	922.2	926.9	928.5
5°	845.9	839.7	845.9	852.1	869.3	866.2	870.8	875.5	884.9	886.4	898.9
7.5°	785.2	782.0	786.7	799.2	821.0	814.8	821.0	827.2	838.1	842.8	855.3
10°	738.4	733.7	740.0	749.3	771.1	769.6	772.7	780.5	792.9	796.1	811.6
12.5°	704.1	704.1	707.3	719.7	738.4	736.9	746.2	750.9	761.8	764.9	782.0
15°	687.0	682.3	688.6	699.5	718.2	718.2	724.4	729.1	744.7	746.2	761.8
17.5°	671.4	673.0	674.5	687.0	704.1	701.0	708.8	711.9	729.1	726.0	744.7
20°	671.4	674.5	673.0	680.8	693.2	687.0	696.4	697.9	716.6	711.9	732.2
22.5°	690.1	693.2	688.6	687.0	691.7	687.0	691.7	694.8	708.8	705.7	724.4
25°	722.8	729.1	722.8	711.9	707.3	694.8	697.9	702.6	713.5	705.7	722.8
27.5°	774.3	778.9	768.0	757.1	735.3	721.3	716.6	715.1	727.5	715.1	729.1
30°	833.5	839.7	830.3	810.1	778.9	755.6	746.2	741.5	749.3	730.6	744.7
32.5°	897.3	903.6	897.3	881.7	839.7	805.4	792.9	782.0	788.3	763.3	769.6
35°	962.8	969.0	975.2	965.9	911.3	872.4	852.1	842.8	841.2	810.1	811.6
37.5°	1020.4	1026.6	1046.9	1056.2	1006.4	953.4	934.7	914.5	916.0	872.4	872.4
40°	1090.5	1098.3	1124.8	1146.6	1113.9	1050.0	1028.2	1006.4	1006.4	948.7	950.3
42.5°	1185.5	1194.9	1212.0	1241.6	1230.7	1165.3	1141.9	1112.3	1115.4	1046.9	1045.3
45°	1319.5	1325.7	1325.7	1344.4	1346.0	1283.7	1268.1	1238.5	1244.7	1157.5	1162.2
47.5°	1494.0	1486.2	1455.0	1465.9	1478.4	1413.0	1399.0	1380.3	1388.0	1294.6	1303.9
50°	1656.0	1649.8	1585.9	1589.0	1634.2	1567.2	1562.5	1539.2	1550.1	1456.6	1470.6
52.5°	1716.8	1705.8	1642.0	1676.2	1802.4	1765.0	1772.8	1761.9	1768.2	1668.5	1665.3
55°	1648.2	1648.2	1609.3	1671.6	1928.6	1948.9	2012.7	2037.7	2064.2	1964.5	1942.6
57.5°	1458.1	1470.6	1476.8	1587.5	1908.4	1995.6	2117.1	2223.1	2358.6	2352.4	2385.1
60°	1143.5	1165.3	1201.1	1381.8	1821.1	1964.5	2121.8	2280.7	2467.6	2587.6	2765.2
62.5°	802.3	821.0	850.6	975.2	1567.2	1813.3	2040.8	2285.4	2523.7	2712.2	2945.9
65°	545.2	563.9	626.3	694.8	945.6	1303.9	1651.3	2056.4	2419.3	2769.9	3084.5
67.5°	392.6	403.5	451.8	567.1	629.4	694.8	824.1	1300.8	1747.9	2453.6	2913.2
70°	294.4	305.3	349.0	476.7	553.0	570.2	601.3	685.5	799.2	1378.7	1981.6
71°	246.1	261.7	314.7	448.7	549.9	563.9	578.0	627.8	665.2	975.2	1470.6
72.5°	172.9	183.8	233.7	414.4	528.1	560.8	593.5	592.0	588.9	665.2	889.5
75°	110.6	110.6	110.6	233.7	563.9	543.7	556.2	623.1	588.9	559.3	585.8
77.5°	87.2	85.7	81.0	116.8	440.9	551.5	584.2	601.3	634.0	584.2	557.7
80°	65.4	63.9	63.9	73.2	204.1	356.7	493.8	548.4	571.7	621.6	567.1
82.5°	34.3	34.3	37.4	43.6	76.3	124.6	255.5	420.6	470.5	473.6	478.3
85°	10.9	9.3	12.5	20.3	32.7	40.5	71.7	169.8	252.4	305.3	322.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.2	10.9	14.0
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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CATALOG NUMBER: ISS-AF-1000-LED-E1-SL2-8030-ULG

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°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0
2.5°	923.8	930.0	925.4	931.6	923.8	933.2	925.4	930.0	931.6	925.4	933.2
5°	891.1	909.8	903.6	917.6	911.3	923.8	917.6	930.0	930.0	925.4	936.3
7.5°	850.6	869.3	870.8	884.9	884.9	900.4	900.4	912.9	919.1	919.1	934.7
10°	810.1	827.2	830.3	845.9	849.0	867.7	867.7	884.9	897.3	902.0	920.7
12.5°	778.9	800.7	800.7	817.9	814.8	842.8	845.9	861.5	874.0	884.9	909.8
15°	760.2	780.5	780.5	797.6	794.5	822.5	827.2	842.8	861.5	867.7	902.0
17.5°	741.5	761.8	757.1	780.5	778.9	810.1	807.0	830.3	845.9	855.3	894.2
20°	726.0	749.3	746.2	769.6	763.3	797.6	797.6	821.0	836.6	844.4	889.5
22.5°	718.2	743.1	736.9	760.2	755.6	789.8	789.8	813.2	830.3	842.8	888.0
25°	718.2	740.0	733.7	760.2	752.4	789.8	788.3	811.6	828.8	839.7	889.5
27.5°	721.3	743.1	738.4	763.3	757.1	789.8	792.9	813.2	830.3	842.8	892.6
30°	732.2	752.4	741.5	764.9	760.2	791.4	789.8	811.6	828.8	844.4	892.6
32.5°	755.6	766.5	752.4	772.7	763.3	794.5	794.5	810.1	830.3	849.0	892.6
35°	788.3	796.1	774.3	788.3	771.1	802.3	800.7	817.9	833.5	849.0	895.8
37.5°	835.0	844.4	810.1	822.5	794.5	819.4	813.2	833.5	849.0	858.4	911.3
40°	905.1	908.2	863.0	872.4	833.5	855.3	839.7	867.7	875.5	881.7	934.7
42.5°	990.8	993.9	936.3	942.5	892.6	911.3	884.9	914.5	925.4	923.8	981.4
45°	1096.7	1098.3	1032.9	1037.5	979.9	995.5	962.8	987.7	995.5	990.8	1050.0
47.5°	1212.0	1224.5	1151.3	1157.5	1096.7	1104.5	1064.0	1092.1	1092.1	1087.4	1148.1
50°	1364.7	1383.4	1297.7	1307.0	1236.9	1243.2	1196.4	1226.0	1222.9	1210.5	1279.0
52.5°	1554.7	1571.9	1481.5	1494.0	1419.2	1422.3	1364.7	1399.0	1389.6	1369.4	1448.8
55°	1786.9	1788.4	1704.3	1715.2	1640.4	1635.7	1564.1	1606.1	1592.1	1564.1	1637.3
57.5°	2159.2	2114.0	1975.4	1972.2	1891.2	1885.0	1793.1	1844.5	1821.1	1761.9	1858.5
60°	2759.0	2773.0	2419.3	2364.8	2213.7	2185.7	2064.2	2123.4	2095.3	1998.7	2093.8
62.5°	3097.0	3319.8	3298.0	3101.7	2712.2	2606.3	2400.6	2470.8	2397.5	2255.8	2344.6
65°	3347.8	3650.0	3824.5	4013.0	3838.5	3405.5	2919.4	3017.6	2838.4	2568.9	2654.6
67.5°	3441.3	3805.8	4173.5	4441.4	4623.7	4656.4	4094.0	4120.5	3679.6	3140.6	3151.5
70°	2952.1	3489.6	4209.3	4548.9	4910.3	5087.9	5147.1	5119.1	4834.0	4070.7	3779.3
71°	2501.9	3153.1	4066.0	4444.6	4907.2	5078.6	5234.4	5181.4	5049.0	4439.9	3992.8
72.5°	1694.9	2512.8	3646.9	4126.7	4743.7	4868.3	5102.0	5008.5	4980.5	4715.6	4192.2
75°	797.6	1252.5	2372.6	3098.6	4014.6	4134.5	4379.1	4263.8	4190.6	4281.0	3988.1
77.5°	587.3	683.9	1302.4	1925.5	2919.4	3089.2	3299.5	3157.8	3064.3	3154.6	2950.6
80°	534.3	537.5	674.5	1015.7	1741.7	1842.9	1922.4	1807.1	1665.3	1659.1	1470.6
82.5°	492.3	465.8	437.8	537.5	892.6	849.0	785.2	727.5	565.5	453.3	327.1
85°	313.1	342.7	311.6	294.4	355.2	292.9	232.1	222.8	157.3	105.9	98.1
87.5°	21.8	24.9	29.6	34.3	42.1	34.3	21.8	26.5	15.6	0.0	7.8
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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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0
2.5°	922.2	930.0	933.2	931.6	928.5	925.4	914.5	922.2	911.3	919.1	909.8
5°	926.9	937.8	939.4	936.3	933.2	926.9	908.2	919.1	906.7	912.9	898.9
7.5°	925.4	942.5	944.1	940.9	934.7	923.8	905.1	912.9	892.6	897.3	878.6
10°	917.6	942.5	944.1	936.3	926.9	909.8	888.0	891.1	870.8	870.8	845.9
12.5°	909.8	939.4	947.2	936.3	920.7	897.3	872.4	869.3	845.9	844.4	816.3
15°	909.8	942.5	953.4	939.4	916.0	883.3	853.7	847.5	821.0	813.2	782.0
17.5°	908.2	942.5	958.1	939.4	911.3	869.3	831.9	825.7	791.4	778.9	743.1
20°	906.7	945.6	961.2	936.3	897.3	852.1	810.1	797.6	760.2	740.0	697.9
22.5°	905.1	951.8	964.3	933.2	888.0	830.3	786.7	764.9	721.3	694.8	645.0
25°	912.9	959.6	965.9	930.0	874.0	807.0	760.2	730.6	682.3	648.1	588.9
27.5°	916.0	967.4	969.0	923.8	856.8	782.0	732.2	691.7	637.2	595.1	528.1
30°	925.4	969.0	964.3	911.3	836.6	750.9	699.5	649.6	588.9	534.3	454.9
32.5°	928.5	973.7	961.2	897.3	816.3	719.7	662.1	604.4	531.2	467.4	370.8
35°	934.7	976.8	958.1	889.5	794.5	687.0	623.1	557.7	473.6	392.6	282.0
37.5°	944.1	990.8	965.9	886.4	783.6	659.0	579.5	509.4	405.0	310.0	186.9
40°	967.4	1018.8	979.9	891.1	775.8	635.6	537.5	459.6	327.1	229.0	129.3
42.5°	1014.2	1067.1	1015.7	914.5	780.5	615.4	493.8	406.6	247.7	163.6	107.5
45°	1084.3	1129.4	1074.9	953.4	799.2	604.4	453.3	352.1	177.6	130.9	98.1
47.5°	1187.1	1230.7	1162.2	1015.7	831.9	599.8	411.3	294.4	137.1	118.4	95.0
50°	1322.6	1374.0	1288.3	1113.9	892.6	604.4	366.1	239.9	120.0	115.3	93.5
52.5°	1489.3	1539.2	1453.5	1258.7	992.4	630.9	317.8	208.8	113.7	113.7	91.9
55°	1677.8	1747.9	1663.8	1459.7	1146.6	688.6	288.2	197.8	113.7	115.3	90.4
57.5°	1900.6	1959.8	1885.0	1652.9	1332.0	783.6	291.3	208.8	113.7	115.3	88.8
60°	2118.7	2191.9	2106.2	1899.0	1543.8	926.9	355.2	264.8	118.4	120.0	88.8
62.5°	2346.1	2402.2	2332.1	2114.0	1783.7	1104.5	482.9	383.2	137.1	141.8	95.0
65°	2595.4	2687.3	2614.1	2434.9	2123.4	1388.0	726.0	574.8	202.5	165.1	104.4
67.5°	3026.9	3064.3	3028.5	2864.9	2520.6	1621.7	864.6	584.2	202.5	160.5	116.8
70°	3611.1	3527.0	3366.5	3061.2	2562.7	1455.0	620.0	356.7	172.9	152.7	123.1
71°	3746.6	3617.3	3380.5	3012.9	2475.4	1313.3	481.4	282.0	162.0	149.6	123.1
72.5°	3829.2	3636.0	3277.7	2871.1	2304.1	1034.4	317.8	221.2	148.0	141.8	118.4
75°	3721.7	3365.0	2894.5	2484.8	1886.6	537.5	199.4	168.2	126.2	123.1	102.8
77.5°	2955.2	2642.1	2135.8	1805.5	1213.6	238.4	143.3	127.7	99.7	96.6	79.5
80°	1378.7	1106.1	648.1	556.2	381.7	140.2	98.1	87.2	71.7	68.5	56.1
82.5°	250.8	188.5	146.4	141.8	127.7	82.6	57.6	53.0	45.2	43.6	35.8
85°	85.7	82.6	62.3	62.3	63.9	43.6	32.7	31.2	23.4	23.4	15.6
87.5°	1.6	7.8	7.8	10.9	9.3	7.8	3.1	4.7	1.6	4.7	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°	4.8	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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	110°	114.0
917.6	905.1	916.0	905.1	911.3	898.9	906.7	902.0	902.0	897.3	894.2	112.5°	136.0
903.6	888.0	895.8	883.3	889.5	870.8	875.5	867.7	852.1	842.8	830.3	115°	158.0
883.3	859.9	866.2	847.5	852.1	827.2	831.9	817.9	788.3	769.6	750.9	117.5°	181.0
847.5	825.7	827.2	803.9	802.3	777.4	772.7	754.0	710.4	679.2	654.3	120°	204.0
811.6	786.7	783.6	755.6	750.9	721.3	715.1	685.5	621.6	560.8	521.9	122.5°	228.0
774.3	743.1	733.7	704.1	687.0	662.1	645.0	601.3	509.4	430.0	378.6	125°	254.0
732.2	691.7	677.7	643.4	618.5	581.1	556.2	497.0	378.6	292.9	257.0	127.5°	277.0
677.7	634.0	609.1	565.5	532.8	487.6	456.5	380.1	252.4	208.8	204.1	130°	301.0
616.9	565.5	534.3	479.8	439.3	391.0	341.2	257.0	179.2	169.8	176.0	132.5°	325.0
553.0	489.2	448.7	381.7	327.1	271.1	224.3	171.4	146.4	144.9	154.2	135°	348.0
476.7	403.5	345.8	266.4	216.5	172.9	152.7	135.5	124.6	126.2	135.5	137.5°	369.0
392.6	297.5	236.8	166.7	144.9	126.2	123.1	116.8	112.2	115.3	121.5	140°	390.0
292.9	190.1	152.7	120.0	118.4	107.5	110.6	107.5	105.9	107.5	112.2	142.5°	412.0
197.8	126.2	120.0	102.8	105.9	98.1	102.8	101.3	99.7	99.7	102.8	145°	433.0
137.1	104.4	107.5	95.0	99.7	93.5	98.1	96.6	95.0	93.5	95.0	147.5°	452.0
113.7	95.0	99.7	90.4	95.0	88.8	93.5	91.9	90.4	87.2	87.2	150°	469.0
104.4	90.4	95.0	85.7	91.9	84.1	90.4	87.2	84.1	81.0	82.6	152.5°	486.0
101.3	87.2	91.9	82.6	88.8	81.0	85.7	84.1	77.9	76.3	77.9	155°	503.0
98.1	85.7	90.4	81.0	85.7	77.9	82.6	79.5	73.2	71.7	73.2	157.5°	517.0
96.6	82.6	87.2	77.9	82.6	76.3	79.5	76.3	70.1	68.5	68.5	160°	530.0
95.0	81.0	85.7	74.8	79.5	70.1	74.8	71.7	65.4	63.9	63.9	162.5°	540.0
95.0	79.5	82.6	71.7	76.3	67.0	70.1	67.0	63.9	60.8	60.8	165°	550.0
93.5	76.3	81.0	68.5	71.7	63.9	67.0	63.9	59.2	57.6	57.6	167.5°	558.0
93.5	74.8	79.5	67.0	70.1	60.8	63.9	60.8	56.1	54.5	54.5	170°	564.0
98.1	77.9	81.0	68.5	70.1	60.8	62.3	57.6	53.0	53.0	51.4	172.5°	567.0
107.5	87.2	87.2	71.7	71.7	60.8	62.3	56.1	49.9	49.9	49.9	175°	570.0
116.8	96.6	95.0	76.3	74.8	60.8	60.8	53.0	46.7	46.7	46.7	177.5°	574.0
123.1	101.3	98.1	77.9	74.8	59.2	57.6	49.9	43.6	43.6	43.6	180°	576.0
121.5	101.3	96.6	76.3	71.7	56.1	56.1	48.3	42.1	42.1	40.5		
115.3	95.0	90.4	71.7	68.5	53.0	53.0	45.2	38.9	38.9	37.4		
98.1	81.0	76.3	60.8	57.6	46.7	45.2	37.4	34.3	32.7	32.7		
76.3	63.9	59.2	48.3	46.7	37.4	35.8	31.2	28.0	28.0	26.5		
54.5	45.2	42.1	32.7	29.6	24.9	26.5	23.4	21.8	21.8	20.3		
32.7	23.4	23.4	18.7	20.3	15.6	17.1	17.1	15.6	12.5	12.5		
17.1	10.9	14.0	7.8	10.9	4.7	7.8	6.2	6.2	4.7	4.7		
3.1	0.0	1.6	0.0	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		
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		

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 ISS-AF-1000-LED-E1-SL2-8030-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°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	930.0	930.0
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	884.9	886.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	824.1	827.2
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	736.9	741.5
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	632.5	635.6
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	498.5	498.5
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	349.0	352.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	244.6	246.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	205.6	207.2
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	183.8	185.4
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	163.6	165.1
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	141.8	143.3
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	127.7	129.3
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	115.3	116.8
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	104.4	104.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	96.6	96.6
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	88.8	88.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	84.1	84.1
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	79.5	79.5
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	74.8	74.8
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	70.1	71.7
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	65.4	65.4
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	60.8	60.8
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	56.1	57.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	53.0	53.0
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	49.9	49.9
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	48.3	48.3
574.8	575.5	576.2	577.0	577.0	577.0	577.0	577.0	578.0	574.0	67.5°	45.2	45.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	42.1	42.1
										71°	40.5	40.5
										72.5°	37.4	37.4
										75°	32.7	31.2
										77.5°	26.5	26.5
										80°	20.3	18.7
										82.5°	12.5	10.9
										85°	4.7	3.1
										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
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Scaled Data Report

