

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: P228075

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228075
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-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7054.4 lumens
Efficiency: N/A
Efficacy: 98.9 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

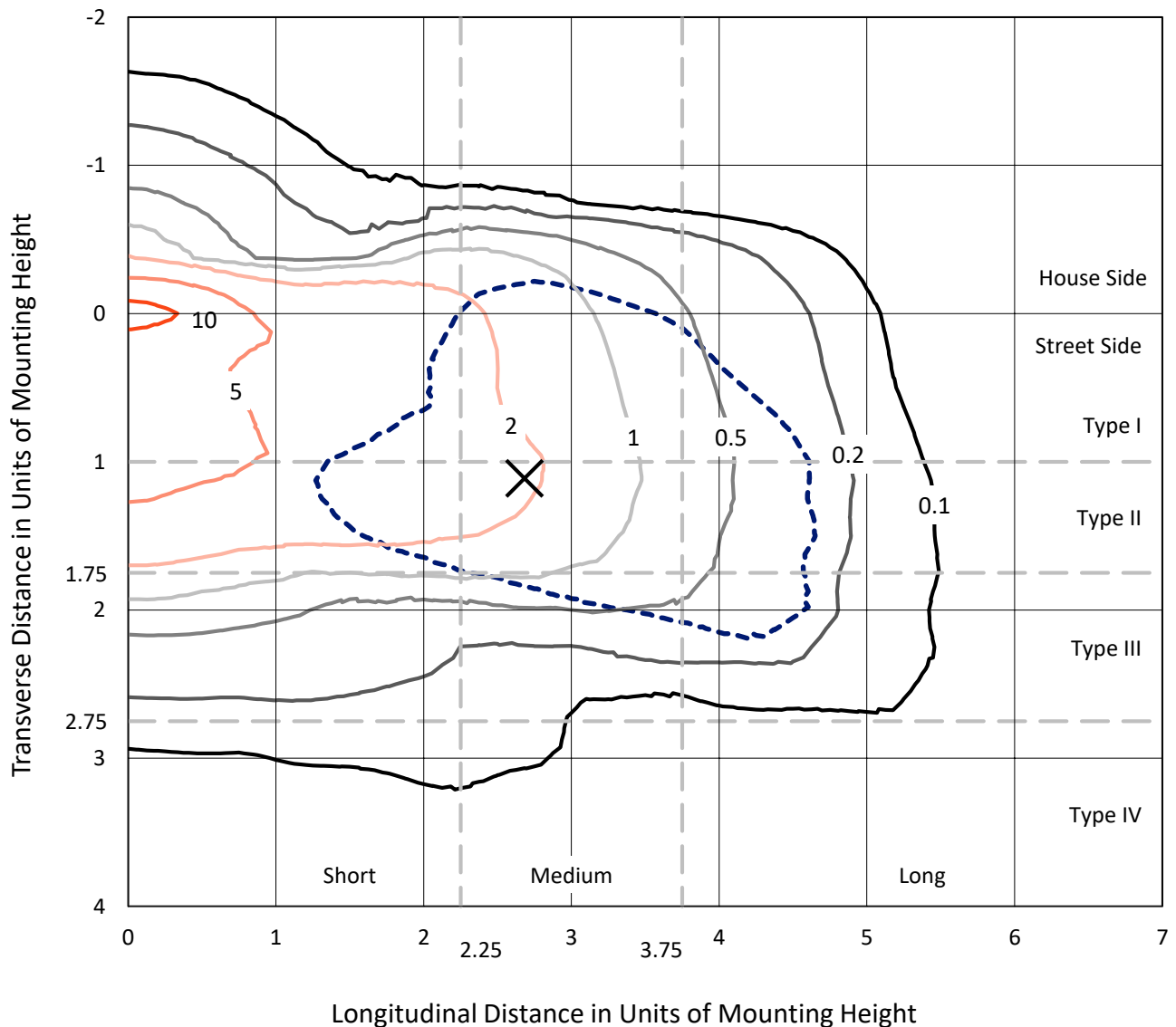
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

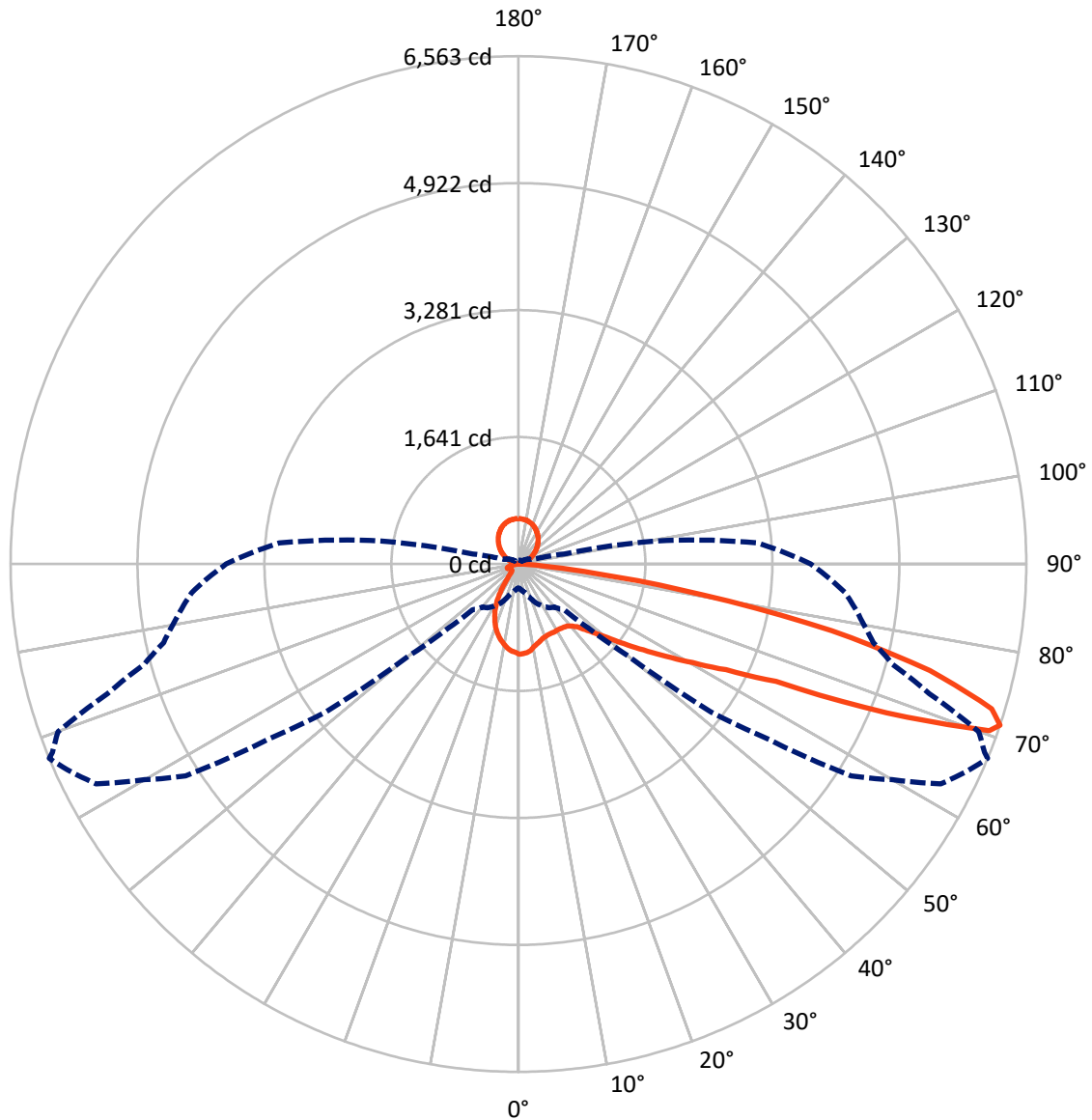
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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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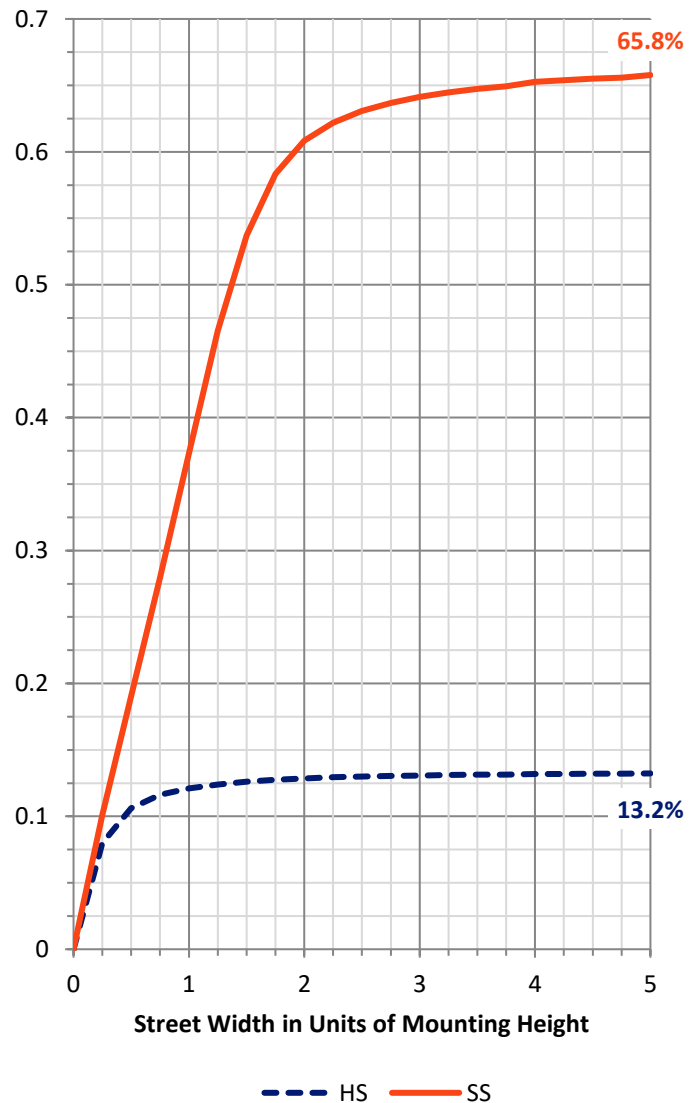
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.9	729.4	1672.3
	% Fixture	13.4	10.3	23.7
Street Side	Lumens	4652.6	729.4	5382.1
	% Fixture	66.0	10.3	76.3
Total	Lumens	5595.5	1458.9	7054.4
	% Fixture	79.3	20.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.4
10°-20°	243.4	3.5
20°-30°	331.0	4.7
30°-40°	452.4	6.4
40°-50°	681.7	9.7
50°-60°	1080.4	15.3
60°-70°	1430.3	20.3
70°-80°	1139.4	16.2
80°-90°	135.1	1.9
90°-100°	4.8	0.1
100°-110°	70.6	1.0
110°-120°	156.6	2.2
120°-130°	229.0	3.2
130°-140°	271.7	3.9
140°-150°	275.5	3.9
150°-160°	236.4	3.4
160°-170°	158.7	2.2
170°-180°	55.6	0.8
0°-90°	5595.5	79.3
0°-180°	7054.4	100.0



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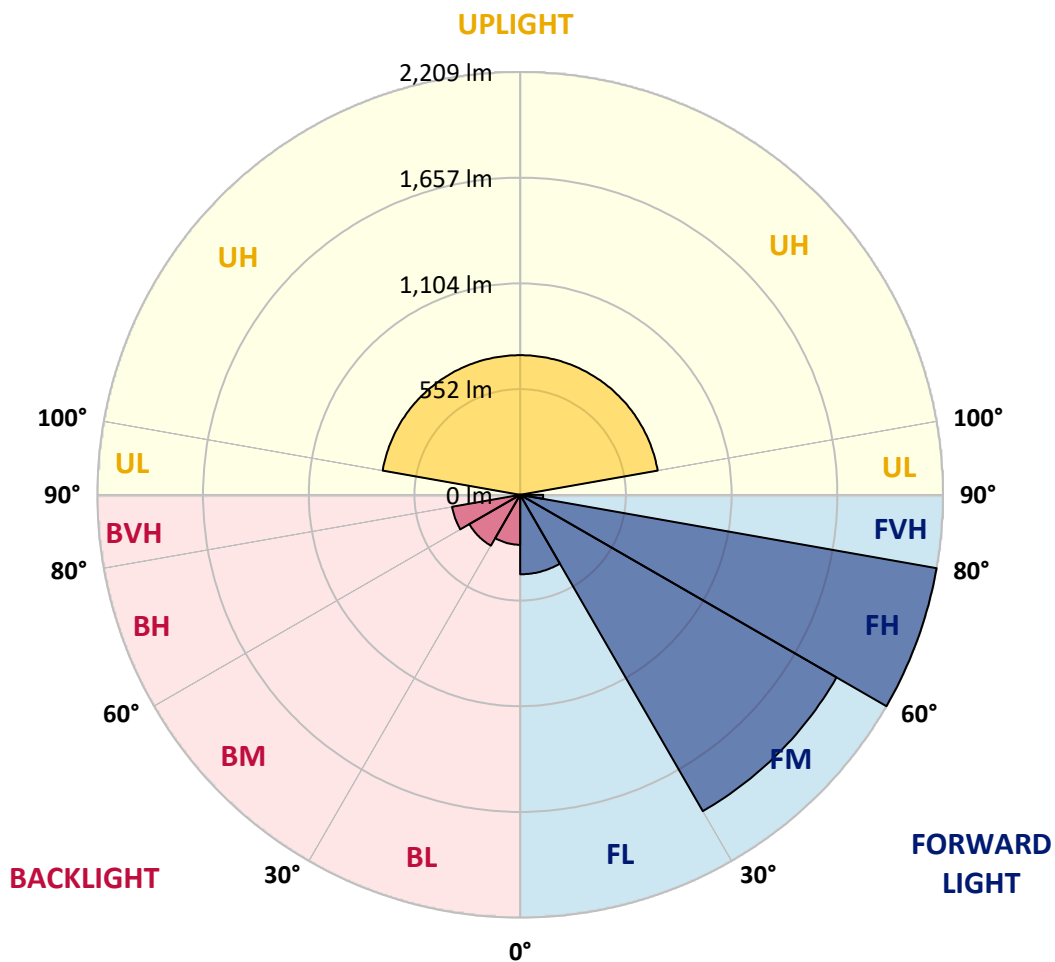
CATALOG NUMBER: ISS-AF-1000-LED-E1-SL2-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.2	5.9			
FM	(30°-60°)	1908.2	27.0			
FH	(60°-80°)	2208.8	31.3			G2/5000
FVH	(80°-90°)	120.5	1.7			G2/225
BL	(0°-30°)	261.0	3.7	B1/500		
BM	(30°-60°)	306.4	4.3	B1/1000		
BH	(60°-80°)	360.9	5.1	B1/500		G1/500
BVH	(80°-90°)	14.6	0.2			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	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°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1144.6	1140.7	1140.7	1146.5	1156.2	1148.5	1154.3	1154.3	1156.2	1162.2	1164.1
5°	1060.6	1052.7	1060.6	1068.4	1089.9	1086.0	1091.8	1097.7	1109.4	1111.3	1127.0
7.5°	984.4	980.5	986.3	1002.0	1029.3	1021.5	1029.3	1037.2	1050.8	1056.7	1072.3
10°	925.8	919.9	927.7	939.5	966.8	964.8	968.7	978.6	994.2	998.1	1017.6
12.5°	882.8	882.8	886.7	902.3	925.8	923.8	935.6	941.4	955.1	959.0	980.5
15°	861.3	855.5	863.3	877.0	900.4	900.4	908.2	914.1	933.6	935.6	955.1
17.5°	841.8	843.7	845.8	861.3	882.8	878.9	888.7	892.6	914.1	910.2	933.6
20°	841.8	845.8	843.7	853.6	869.2	861.3	873.1	875.0	898.5	892.6	918.0
22.5°	865.2	869.2	863.3	861.3	867.3	861.3	867.3	871.1	888.7	884.8	908.2
25°	906.2	914.1	906.2	892.6	886.7	871.1	875.0	880.9	894.6	884.8	906.2
27.5°	970.7	976.6	962.9	949.2	921.9	904.3	898.5	896.5	912.2	896.5	914.1
30°	1044.9	1052.7	1041.1	1015.7	976.6	947.3	935.6	929.8	939.5	916.1	933.6
32.5°	1125.0	1132.8	1125.0	1105.5	1052.7	1009.8	994.2	980.5	988.3	957.1	964.8
35°	1207.1	1214.9	1222.7	1211.0	1142.6	1093.7	1068.4	1056.7	1054.8	1015.7	1017.6
37.5°	1279.3	1287.2	1312.5	1324.2	1261.7	1195.3	1171.9	1146.5	1148.5	1093.7	1093.7
40°	1367.2	1377.0	1410.2	1437.6	1396.5	1316.4	1289.1	1261.7	1261.7	1189.5	1191.4
42.5°	1486.3	1498.1	1519.6	1556.7	1543.0	1461.0	1431.7	1394.6	1398.5	1312.5	1310.6
45°	1654.3	1662.2	1662.2	1685.6	1687.6	1609.4	1589.9	1552.7	1560.6	1451.3	1457.1
47.5°	1873.1	1863.3	1824.2	1837.9	1853.6	1771.5	1754.0	1730.5	1740.2	1623.1	1634.8
50°	2076.2	2068.4	1988.3	1992.2	2048.9	1964.9	1959.1	1929.7	1943.4	1826.2	1843.8
52.5°	2152.4	2138.7	2058.7	2101.7	2259.8	2212.9	2222.7	2209.1	2216.8	2091.8	2087.9
55°	2066.5	2066.5	2017.7	2095.7	2418.1	2443.4	2523.5	2554.7	2588.0	2463.0	2435.6
57.5°	1828.2	1843.8	1851.6	1990.3	2392.7	2502.0	2654.4	2787.1	2957.1	2949.3	2990.3
60°	1433.7	1461.0	1505.9	1732.5	2283.2	2463.0	2660.2	2859.5	3093.8	3244.2	3466.9
62.5°	1005.9	1029.3	1066.4	1222.7	1964.9	2273.5	2558.7	2865.3	3164.2	3400.5	3693.5
65°	683.6	707.1	785.2	871.1	1185.6	1634.8	2070.4	2578.1	3033.3	3472.7	3867.3
67.5°	492.2	505.8	566.4	711.0	789.1	871.1	1033.2	1630.9	2191.5	3076.2	3652.4
70°	369.2	382.8	437.5	597.7	693.4	714.8	753.9	859.4	1002.0	1728.6	2484.4
71°	308.6	328.2	394.6	562.5	689.5	707.1	724.7	787.2	834.0	1222.7	1843.8
72.5°	216.8	230.5	293.0	519.6	662.2	703.2	744.2	742.3	738.3	834.0	1115.2
75°	138.7	138.7	138.7	293.0	707.1	681.7	697.2	781.2	738.3	701.2	734.4
77.5°	109.4	107.4	101.6	146.5	552.7	691.4	732.4	753.9	794.9	732.4	699.2
80°	82.0	80.1	80.1	91.8	255.8	447.2	619.2	687.5	716.8	779.3	711.0
82.5°	43.0	43.0	46.9	54.7	95.7	156.2	320.3	527.3	589.8	593.7	599.7
85°	13.7	11.8	15.7	25.4	41.0	50.7	89.8	212.9	316.4	382.8	404.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	7.8	13.7	17.6
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°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1158.2	1166.1	1160.2	1168.0	1158.2	1169.9	1160.2	1166.1	1168.0	1160.2	1169.9
5°	1117.3	1140.7	1132.8	1150.4	1142.6	1158.2	1150.4	1166.1	1166.1	1160.2	1173.8
7.5°	1066.4	1089.9	1091.8	1109.4	1109.4	1128.9	1128.9	1144.6	1152.4	1152.4	1171.9
10°	1015.7	1037.2	1041.1	1060.6	1064.5	1087.9	1087.9	1109.4	1125.0	1130.9	1154.3
12.5°	976.6	1003.9	1003.9	1025.4	1021.5	1056.7	1060.6	1080.1	1095.7	1109.4	1140.7
15°	953.2	978.6	978.6	1000.0	996.1	1031.2	1037.2	1056.7	1080.1	1087.9	1130.9
17.5°	929.8	955.1	949.2	978.6	976.6	1015.7	1011.7	1041.1	1060.6	1072.3	1121.2
20°	910.2	939.5	935.6	964.8	957.1	1000.0	1000.0	1029.3	1048.8	1058.7	1115.2
22.5°	900.4	931.7	923.8	953.2	947.3	990.2	990.2	1019.6	1041.1	1056.7	1113.3
25°	900.4	927.7	919.9	953.2	943.4	990.2	988.3	1017.6	1039.1	1052.7	1115.2
27.5°	904.3	931.7	925.8	957.1	949.2	990.2	994.2	1019.6	1041.1	1056.7	1119.2
30°	918.0	943.4	929.8	959.0	953.2	992.3	990.2	1017.6	1039.1	1058.7	1119.2
32.5°	947.3	961.0	943.4	968.7	957.1	996.1	996.1	1015.7	1041.1	1064.5	1119.2
35°	988.3	998.1	970.7	988.3	966.8	1005.9	1003.9	1025.4	1044.9	1064.5	1123.1
37.5°	1046.9	1058.7	1015.7	1031.2	996.1	1027.3	1019.6	1044.9	1064.5	1076.2	1142.6
40°	1134.8	1138.7	1082.1	1093.7	1044.9	1072.3	1052.7	1087.9	1097.7	1105.5	1171.9
42.5°	1242.2	1246.2	1173.8	1181.7	1119.2	1142.6	1109.4	1146.5	1160.2	1158.2	1230.5
45°	1375.1	1377.0	1295.0	1300.8	1228.6	1248.1	1207.1	1238.3	1248.1	1242.2	1316.4
47.5°	1519.6	1535.2	1443.4	1451.3	1375.1	1384.8	1334.0	1369.2	1369.2	1363.3	1439.5
50°	1711.0	1734.4	1627.0	1638.7	1550.8	1558.7	1500.1	1537.2	1533.2	1517.6	1603.6
52.5°	1949.2	1970.7	1857.5	1873.1	1779.3	1783.2	1711.0	1754.0	1742.2	1716.8	1816.5
55°	2240.3	2242.2	2136.7	2150.4	2056.6	2050.8	1961.0	2013.7	1996.2	1961.0	2052.8
57.5°	2707.1	2650.5	2476.7	2472.7	2371.2	2363.3	2248.1	2312.6	2283.2	2209.1	2330.2
60°	3459.1	3476.7	3033.3	2964.9	2775.5	2740.3	2588.0	2662.1	2627.0	2505.9	2625.1
62.5°	3882.9	4162.2	4134.9	3888.7	3400.5	3267.6	3009.8	3097.7	3005.9	2828.2	2939.6
65°	4197.4	4576.3	4795.1	5031.4	4812.6	4269.6	3660.2	3783.3	3558.6	3220.8	3328.2
67.5°	4314.6	4771.7	5232.6	5568.5	5797.1	5838.1	5133.0	5166.1	4613.4	3937.6	3951.2
70°	3701.2	4375.2	5277.5	5703.3	6156.4	6379.1	6453.3	6418.1	6060.7	5103.6	4738.4
71°	3136.8	3953.2	5097.8	5572.4	6152.5	6367.4	6562.6	6496.2	6330.2	5566.6	5006.0
72.5°	2125.1	3150.5	4572.4	5174.0	5947.4	6103.6	6396.6	6279.5	6244.3	5912.2	5256.0
75°	1000.0	1570.3	2974.6	3884.9	5033.3	5183.7	5490.4	5345.8	5254.1	5367.3	5000.1
77.5°	736.3	857.4	1632.8	2414.2	3660.2	3873.1	4136.8	3959.1	3841.9	3955.1	3699.3
80°	669.9	673.8	845.8	1273.5	2183.7	2310.6	2410.2	2265.7	2087.9	2080.2	1843.8
82.5°	617.2	584.0	548.8	673.8	1119.2	1064.5	984.4	912.2	709.0	568.4	410.2
85°	392.6	429.7	390.7	369.2	445.3	367.2	291.0	279.3	197.2	132.8	123.1
87.5°	27.3	31.2	37.1	43.0	52.8	43.0	27.3	33.2	19.5	0.0	9.7
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°	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.5	6.1	5.6	5.1
100°	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.8	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.5	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.1	72.0	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.8	93.6	93.3	93.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.3	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.8	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.8	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.5	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.7	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.2	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.7	332.8	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.3	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.7	377.8	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.5	399.6	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.7	421.8	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.2	443.4	443.8	444.0
147.5°	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.7	462.9	463.2	463.4
150°	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.1	514.7	514.5	514.7	514.9	515.1	515.4	515.6
157.5°	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.2	529.4	529.7	529.9
160°	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.8	551.4	550.9	550.3
165°	565.5	565.7	564.9	564.2	563.4	562.6	562.1	562.0	561.6	561.1	560.6
167.5°	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.1	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.5	577.1	576.9	577.5	577.6	578.0	578.5	579.0
172.5°	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.3	580.5	580.8	581.0
175°	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.5	582.1	581.5	581.0
177.5°	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1156.2	1166.1	1169.9	1168.0	1164.1	1160.2	1146.5	1156.2	1142.6	1152.4	1140.7
5°	1162.2	1175.8	1177.7	1173.8	1169.9	1162.2	1138.7	1152.4	1136.7	1144.6	1127.0
7.5°	1160.2	1181.7	1183.7	1179.7	1171.9	1158.2	1134.8	1144.6	1119.2	1125.0	1101.6
10°	1150.4	1181.7	1183.7	1173.8	1162.2	1140.7	1113.3	1117.3	1091.8	1091.8	1060.6
12.5°	1140.7	1177.7	1187.5	1173.8	1154.3	1125.0	1093.7	1089.9	1060.6	1058.7	1023.5
15°	1140.7	1181.7	1195.3	1177.7	1148.5	1107.4	1070.3	1062.5	1029.3	1019.6	980.5
17.5°	1138.7	1181.7	1201.3	1177.7	1142.6	1089.9	1043.0	1035.2	992.3	976.6	931.7
20°	1136.7	1185.6	1205.1	1173.8	1125.0	1068.4	1015.7	1000.0	953.2	927.7	875.0
22.5°	1134.8	1193.4	1209.0	1169.9	1113.3	1041.1	986.3	959.0	904.3	871.1	808.6
25°	1144.6	1203.2	1211.0	1166.1	1095.7	1011.7	953.2	916.1	855.5	812.5	738.3
27.5°	1148.5	1212.9	1214.9	1158.2	1074.2	980.5	918.0	867.3	798.8	746.1	662.2
30°	1160.2	1214.9	1209.0	1142.6	1048.8	941.4	877.0	814.5	738.3	669.9	570.3
32.5°	1164.1	1220.7	1205.1	1125.0	1023.5	902.3	830.1	757.8	666.0	585.9	464.8
35°	1171.9	1224.7	1201.3	1115.2	996.1	861.3	781.2	699.2	593.7	492.2	353.5
37.5°	1183.7	1242.2	1211.0	1111.3	982.4	826.2	726.6	638.7	507.8	388.7	234.4
40°	1212.9	1277.4	1228.6	1117.3	972.7	796.9	673.8	576.2	410.2	287.1	162.1
42.5°	1271.5	1337.9	1273.5	1146.5	978.6	771.5	619.2	509.7	310.6	205.1	134.7
45°	1359.4	1416.1	1347.7	1195.3	1002.0	757.8	568.4	441.4	222.7	164.1	123.1
47.5°	1488.3	1543.0	1457.1	1273.5	1043.0	752.0	515.7	369.2	171.9	148.4	119.2
50°	1658.2	1722.8	1615.2	1396.5	1119.2	757.8	459.0	300.7	150.4	144.5	117.2
52.5°	1867.2	1929.7	1822.3	1578.2	1244.2	791.0	398.4	261.8	142.6	142.6	115.3
55°	2103.6	2191.5	2086.0	1830.2	1437.6	863.3	361.3	248.1	142.6	144.5	113.2
57.5°	2382.9	2457.1	2363.3	2072.3	1670.0	982.4	365.2	261.8	142.6	144.5	111.3
60°	2656.3	2748.2	2640.6	2380.9	1935.6	1162.2	445.3	332.0	148.4	150.4	111.3
62.5°	2941.5	3011.8	2923.9	2650.5	2236.4	1384.8	605.5	480.5	171.9	177.8	119.2
65°	3254.0	3369.2	3277.4	3052.8	2662.1	1740.2	910.2	720.8	253.9	207.0	130.8
67.5°	3795.0	3841.9	3797.0	3591.9	3160.2	2033.2	1084.0	732.4	253.9	201.2	146.5
70°	4527.5	4422.0	4220.8	3838.0	3213.0	1824.2	777.3	447.2	216.8	191.4	154.3
71°	4697.4	4535.3	4238.4	3777.5	3103.6	1646.5	603.5	353.5	203.2	187.5	154.3
72.5°	4800.9	4558.7	4109.5	3599.7	2888.7	1296.9	398.4	277.3	185.6	177.8	148.4
75°	4666.1	4218.9	3629.0	3115.3	2365.3	673.8	250.0	210.9	158.3	154.3	128.9
77.5°	3705.1	3312.6	2677.8	2263.7	1521.5	298.8	179.7	160.2	125.0	121.1	99.6
80°	1728.6	1386.7	812.5	697.2	478.5	175.7	123.1	109.4	89.8	85.9	70.3
82.5°	314.5	236.3	183.6	177.8	160.2	103.5	72.2	66.4	56.7	54.7	44.9
85°	107.4	103.5	78.2	78.2	80.1	54.7	41.0	39.1	29.3	29.3	19.5
87.5°	1.9	9.7	9.7	13.7	11.8	9.7	3.9	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°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9



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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°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4	0°
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	2.5°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	7.5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	10°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	12.5°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	15°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	17.5°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	20°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	22.5°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	25°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	27.5°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	30°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	32.5°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	35°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	37.5°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	40°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	42.5°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	45°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	47.5°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	50°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	52.5°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	55°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	57.5°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	60°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	62.5°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	65°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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°
1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	110°	116.6
1150.4	1134.8	1148.5	1134.8	1142.6	1127.0	1136.7	1130.9	1130.9	1125.0	1121.2	112.5°	139.1
1132.8	1113.3	1123.1	1107.4	1115.2	1091.8	1097.7	1087.9	1068.4	1056.7	1041.1	115°	161.6
1107.4	1078.2	1086.0	1062.5	1068.4	1037.2	1043.0	1025.4	988.3	964.8	941.4	117.5°	185.2
1062.5	1035.2	1037.2	1007.8	1005.9	974.7	968.7	945.3	890.7	851.6	820.3	120°	208.7
1017.6	986.3	982.4	947.3	941.4	904.3	896.5	859.4	779.3	703.2	654.3	122.5°	233.2
970.7	931.7	919.9	882.8	861.3	830.1	808.6	753.9	638.7	539.1	474.6	125°	259.8
918.0	867.3	849.7	806.7	775.4	728.5	697.2	623.1	474.6	367.2	322.2	127.5°	283.4
849.7	794.9	763.7	709.0	668.0	611.3	572.2	476.6	316.4	261.8	255.8	130°	307.9
773.5	709.0	669.9	601.6	550.8	490.2	427.7	322.2	224.6	212.9	220.8	132.5°	332.5
693.4	613.3	562.5	478.5	410.2	339.8	281.2	214.8	183.6	181.7	193.3	135°	356.0
597.7	505.8	433.6	334.0	271.5	216.8	191.4	169.9	156.2	158.3	169.9	137.5°	377.5
492.2	373.1	296.9	209.0	181.7	158.3	154.3	146.5	140.7	144.5	152.3	140°	399.0
367.2	238.2	191.4	150.4	148.4	134.7	138.7	134.7	132.8	134.7	140.7	142.5°	421.5
248.1	158.3	150.4	128.9	132.8	123.1	128.9	126.9	125.0	125.0	128.9	145°	442.9
171.9	130.8	134.7	119.2	125.0	117.2	123.1	121.1	119.2	117.2	119.2	147.5°	462.4
142.6	119.2	125.0	113.2	119.2	111.3	117.2	115.3	113.2	109.4	109.4	150°	479.8
130.8	113.2	119.2	107.4	115.3	105.5	113.2	109.4	105.5	101.6	103.5	152.5°	497.2
126.9	109.4	115.3	103.5	111.3	101.6	107.4	105.5	97.7	95.7	97.7	155°	514.5
123.1	107.4	113.2	101.6	107.4	97.7	103.5	99.6	91.8	89.8	91.8	157.5°	528.9
121.1	103.5	109.4	97.7	103.5	95.7	99.6	95.7	87.9	85.9	85.9	160°	542.2
119.2	101.6	107.4	93.7	99.6	87.9	93.7	89.8	82.0	80.1	80.1	162.5°	552.4
119.2	99.6	103.5	89.8	95.7	84.0	87.9	84.0	80.1	76.2	76.2	165°	562.6
117.2	95.7	101.6	85.9	89.8	80.1	84.0	80.1	74.3	72.2	72.2	167.5°	570.8
117.2	93.7	99.6	84.0	87.9	76.2	80.1	76.2	70.3	68.3	68.3	170°	576.9
123.1	97.7	101.6	85.9	87.9	76.2	78.2	72.2	66.4	66.4	64.4	172.5°	580.0
134.7	109.4	109.4	89.8	89.8	76.2	78.2	70.3	62.5	62.5	62.5	175°	583.1
146.5	121.1	119.2	95.7	93.7	76.2	76.2	66.4	58.6	58.6	58.6	177.5°	587.2
154.3	126.9	123.1	97.7	93.7	74.3	72.2	62.5	54.7	54.7	54.7	180°	589.2
152.3	126.9	121.1	95.7	89.8	70.3	70.3	60.6	52.8	52.8	50.7		
144.5	119.2	113.2	89.8	85.9	66.4	66.4	56.7	48.8	48.8	46.9		
123.1	101.6	95.7	76.2	72.2	58.6	56.7	46.9	43.0	41.0	41.0		
95.7	80.1	74.3	60.6	58.6	46.9	44.9	39.1	35.2	35.2	33.2		
68.3	56.7	52.8	41.0	37.1	31.2	33.2	29.3	27.3	27.3	25.4		
41.0	29.3	29.3	23.4	25.4	19.5	21.5	21.5	19.5	15.7	15.7		
21.5	13.7	17.6	9.7	13.7	5.8	9.7	7.8	7.8	5.8	5.8		
3.9	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		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		

'228075
 ISS-AF-1000-LED-E1-SL2-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°
116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4	0°	1166.1	1166.1
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	1109.4	1111.3
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	1033.2	1037.2
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	923.8	929.8
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	793.0	796.9
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	625.0	625.0
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	437.5	441.4
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	306.7	308.6
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	257.8	259.7
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	230.5	232.4
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	205.1	207.0
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	177.8	179.7
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	160.2	162.1
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	144.5	146.5
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	130.8	130.8
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	121.1	121.1
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	111.3	111.3
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	105.5	105.5
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	99.6	99.6
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	93.7	93.7
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	87.9	89.8
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	82.0	82.0
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	76.2	76.2
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	70.3	72.2
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	66.4	66.4
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	62.5	62.5
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	60.6	60.6
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	56.7	56.7
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	52.8	52.8
										71°	50.7	50.7
										72.5°	46.9	46.9
										75°	41.0	39.1
										77.5°	33.2	33.2
										80°	25.4	23.4
										82.5°	15.7	13.7
										85°	5.8	3.9
										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°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	104.3	103.3
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

