

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: P227993

Luminaire Tested: **ISC-AF-600-LED-E1-T4W-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-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-600-LED-E1-T4W-7050-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5334.2 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 50.4
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

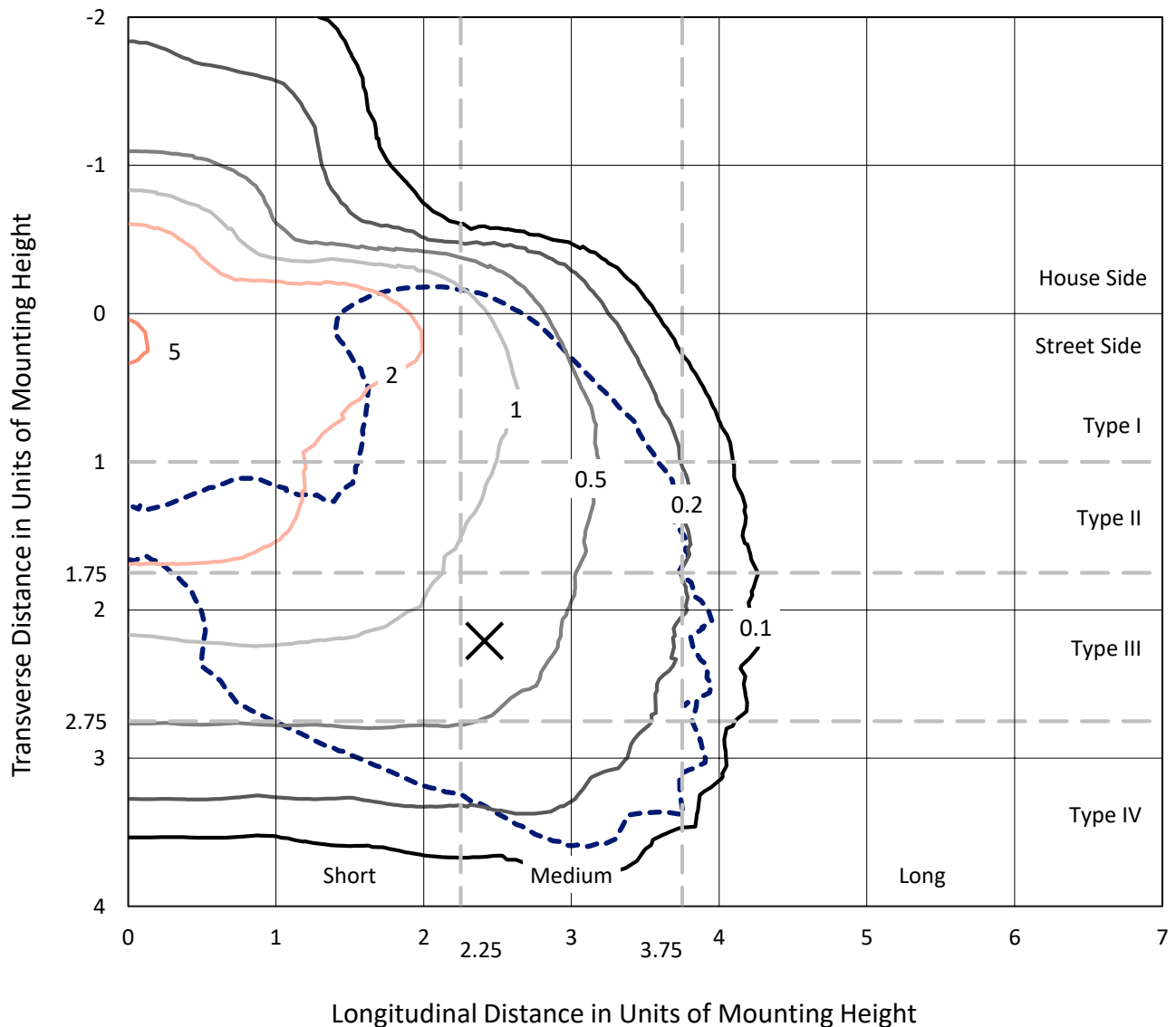


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Iso-Footcandle Lines of Horizontal Illumination

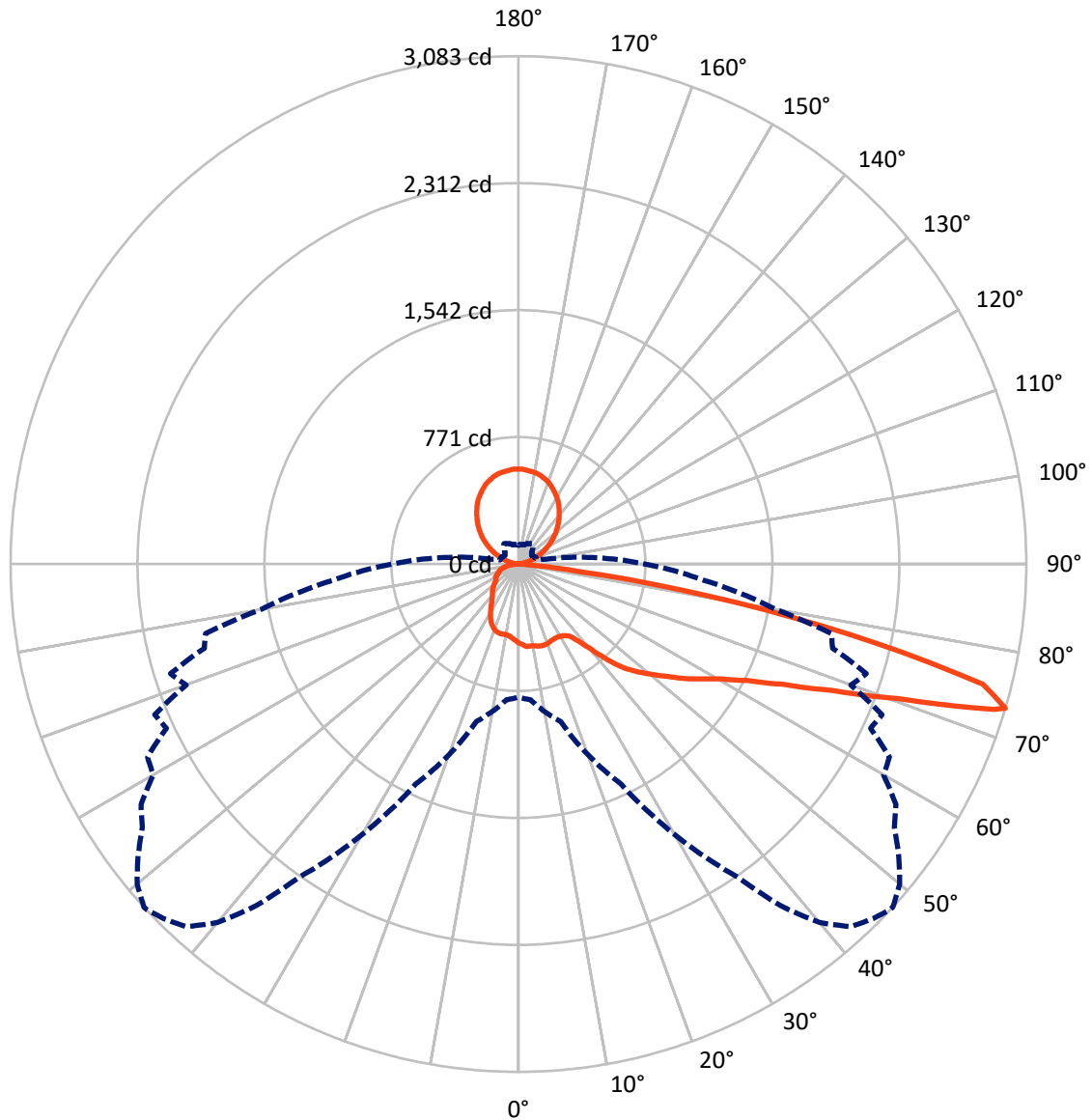
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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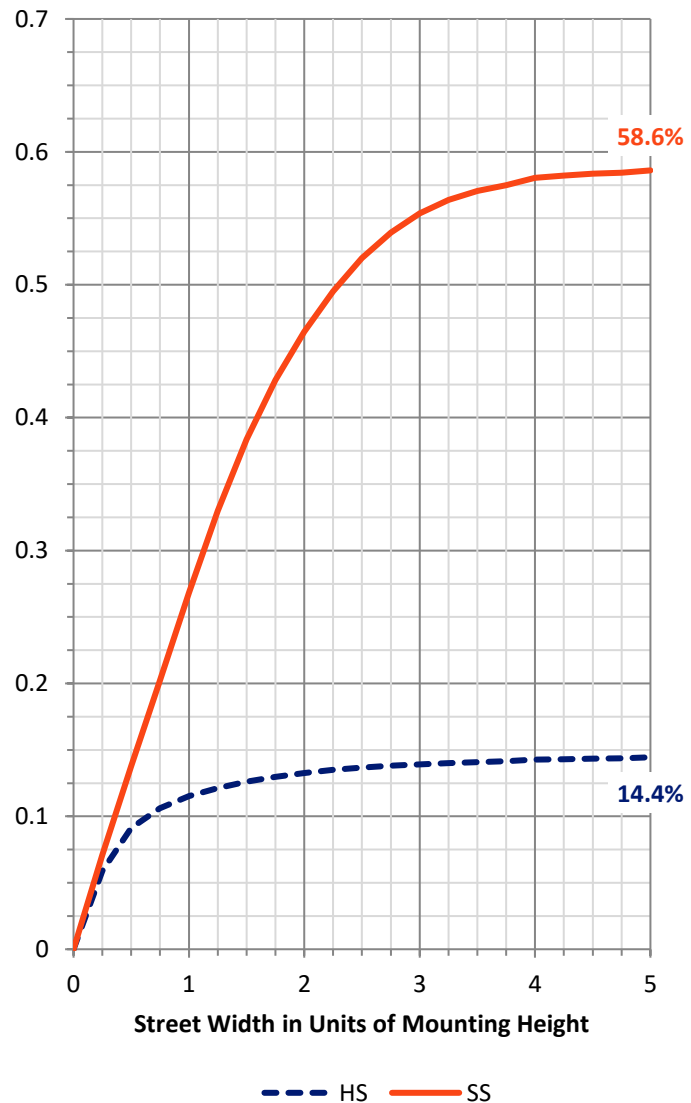
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.8	713.1	1493.9
	% Fixture	14.6	13.4	28.0
Street Side	Lumens	3127.2	713.1	3840.3
	% Fixture	58.6	13.4	72.0
Total	Lumens	3908.0	1426.2	5334.2
	% Fixture	73.3	26.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	0.9
10°-20°	136.0	2.5
20°-30°	209.0	3.9
30°-40°	304.9	5.7
40°-50°	502.8	9.4
50°-60°	787.2	14.8
60°-70°	1067.8	20.0
70°-80°	790.7	14.8
80°-90°	63.9	1.2
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.9
120°-130°	223.9	4.2
130°-140°	265.6	5.0
140°-150°	269.3	5.0
150°-160°	231.1	4.3
160°-170°	155.1	2.9
170°-180°	54.3	1.0
0°-90°	3908.0	73.3
0°-180°	5334.2	100.0



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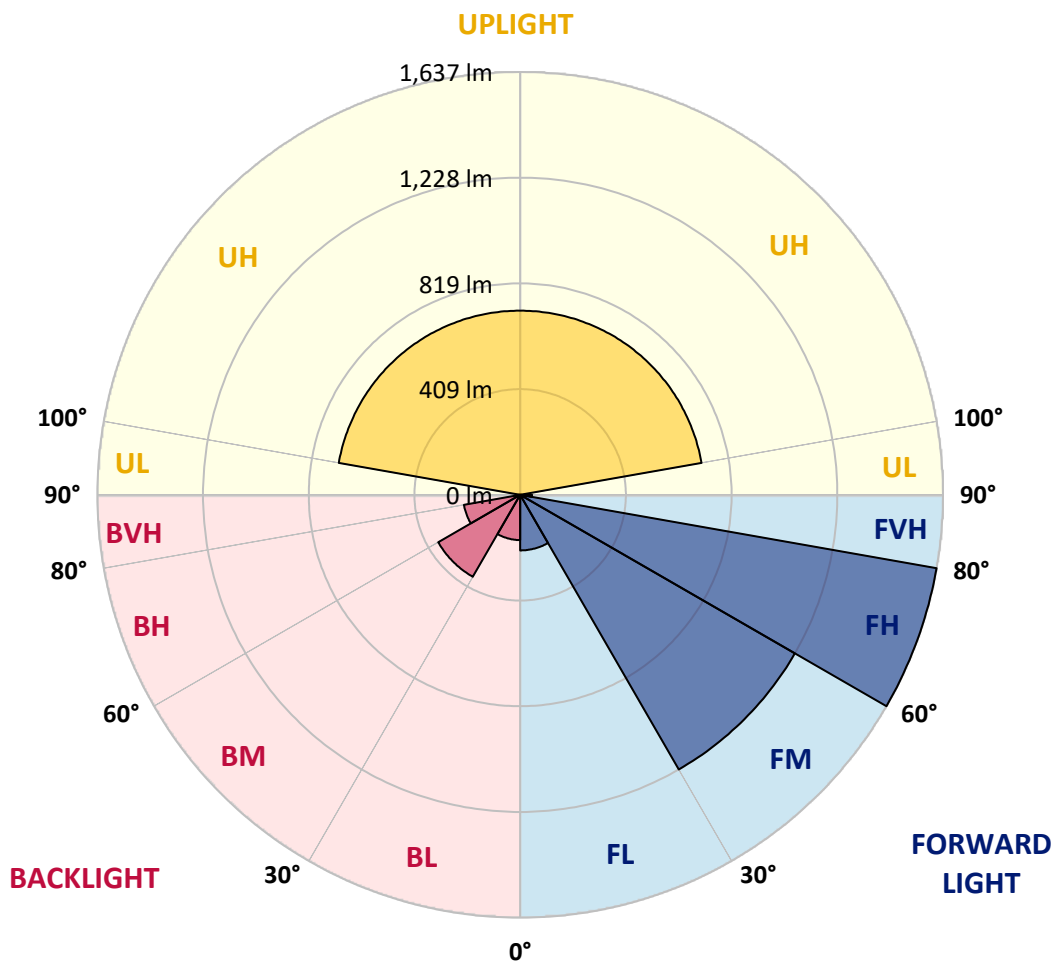
CATALOG NUMBER: ISC-AF-600-LED-E1-T4W-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.4	4.0			
FM	(30°-60°)	1228.2	23.0			
FH	(60°-80°)	1637.5	30.7			G1/1800
FVH	(80°-90°)	46.1	0.9			G1/100
BL	(0°-30°)	175.3	3.3	B1/500		
BM	(30°-60°)	366.6	6.9	B1/1000		
BH	(60°-80°)	221.1	4.1	B1/500		G1/500
BVH	(80°-90°)	17.8	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	13.4		U4/1000	

BUG Rating: B1-U5-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9
2.5°	508.3	507.0	503.1	501.8	498.0	495.4	494.1	492.8	496.7	494.1	490.2
5°	540.5	538.0	532.8	525.1	517.3	512.2	510.9	508.3	508.3	505.7	503.1
7.5°	563.8	562.5	554.7	543.1	530.2	521.2	516.0	512.2	513.4	510.9	503.1
10°	585.7	583.1	570.2	556.0	536.7	526.3	519.9	513.4	518.6	514.7	504.4
12.5°	602.5	599.9	581.8	563.8	541.8	530.2	523.8	519.9	525.1	522.5	510.9
15°	611.5	608.9	590.8	568.9	545.7	532.8	530.2	527.6	531.5	526.3	516.0
17.5°	606.3	606.3	589.6	566.3	547.0	534.1	530.2	527.6	532.8	527.6	516.0
20°	587.0	589.6	577.9	553.4	539.2	530.2	526.3	521.2	526.3	521.2	513.4
22.5°	562.5	565.0	558.6	536.7	526.3	519.9	518.6	513.4	517.3	513.4	505.7
25°	540.5	540.5	538.0	518.6	517.3	512.2	513.4	510.9	513.4	508.3	503.1
27.5°	541.8	541.8	531.5	512.2	510.9	510.9	510.9	510.9	512.2	508.3	503.1
30°	617.9	620.5	590.8	536.7	517.3	514.7	516.0	514.7	516.0	514.7	508.3
32.5°	732.8	732.8	704.4	620.5	552.1	535.4	528.9	527.6	523.8	522.5	517.3
35°	846.3	845.0	816.6	723.7	637.3	605.0	584.4	565.0	556.0	547.0	538.0
37.5°	941.7	937.9	934.0	828.2	737.9	700.5	676.0	647.6	629.6	614.1	593.4
40°	1030.8	1037.2	1051.4	925.0	838.5	803.7	779.2	743.1	725.0	705.7	681.2
42.5°	1153.3	1162.3	1163.6	1029.5	930.1	906.9	887.6	860.5	841.1	817.9	796.0
45°	1272.0	1273.3	1277.2	1141.7	1042.4	1012.7	998.5	972.7	948.2	918.5	900.5
47.5°	1353.3	1349.4	1366.2	1270.7	1174.0	1140.4	1119.8	1081.1	1043.7	1006.2	979.2
50°	1452.6	1448.7	1448.7	1417.8	1326.2	1287.5	1251.4	1179.1	1139.1	1092.7	1054.0
52.5°	1540.3	1526.1	1535.2	1553.2	1486.2	1437.1	1373.9	1292.6	1239.7	1183.0	1134.0
55°	1660.3	1586.8	1607.4	1670.6	1644.8	1568.7	1484.9	1398.4	1337.8	1273.3	1228.1
57.5°	1619.0	1568.7	1629.3	1740.3	1739.0	1668.1	1597.1	1491.3	1430.7	1370.0	1314.6
60°	1470.7	1496.5	1628.1	1788.0	1794.5	1739.0	1681.0	1582.9	1535.2	1472.0	1416.5
62.5°	1355.9	1393.3	1573.9	1784.2	1857.7	1806.1	1758.4	1700.3	1666.8	1613.9	1557.1
65°	1349.4	1371.3	1546.8	1780.3	1946.7	1919.6	1897.7	1870.6	1864.1	1825.4	1759.6
67.5°	1411.3	1432.0	1593.2	1879.6	2078.3	2066.7	2098.9	2093.8	2122.2	2102.8	2048.6
70°	1290.1	1301.7	1500.3	1914.5	2378.9	2430.5	2502.7	2498.9	2559.5	2513.0	2449.8
72.5°	905.6	928.8	1104.3	1581.6	2385.3	2661.4	2829.1	2971.0	3036.8	3048.4	3018.7
73°	808.9	826.9	989.5	1473.3	2320.8	2615.0	2840.7	2986.5	3044.5	3080.7	3083.2
75°	281.2	290.3	432.2	892.7	1855.1	2282.1	2572.4	2704.0	2689.8	2795.6	2911.7
77.5°	90.3	91.6	112.2	230.9	895.3	1416.5	1740.3	1861.6	1791.9	1906.7	2061.5
80°	55.5	58.1	73.5	104.5	234.8	429.6	727.6	910.8	873.4	980.4	1145.6
82.5°	33.5	34.8	45.2	64.5	94.2	104.5	136.7	185.8	228.3	274.8	359.9
85°	15.5	16.8	21.9	29.7	38.7	40.0	38.7	36.1	41.3	47.7	55.5
87.5°	0.0	0.0	1.3	2.6	1.3	0.0	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.2
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	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
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	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9
2.5°	494.1	490.2	490.2	485.1	487.6	482.5	485.1	479.9	482.5	476.0	479.9
5°	501.8	495.4	495.4	487.6	488.9	479.9	483.8	473.5	478.6	467.0	474.7
7.5°	505.7	494.1	499.3	485.1	491.5	476.0	483.8	467.0	477.3	459.3	472.2
10°	510.9	494.1	503.1	487.6	495.4	477.3	487.6	467.0	479.9	458.0	469.6
12.5°	518.6	500.5	508.3	490.2	500.5	479.9	490.2	469.6	482.5	458.0	472.2
15°	523.8	505.7	513.4	495.4	503.1	479.9	492.8	468.3	482.5	456.7	472.2
17.5°	522.5	505.7	513.4	492.8	501.8	478.6	491.5	467.0	479.9	452.8	469.6
20°	517.3	503.1	508.3	490.2	498.0	474.7	486.4	461.8	476.0	448.9	465.7
22.5°	510.9	496.7	503.1	486.4	494.1	470.9	481.2	459.3	473.5	446.4	461.8
25°	507.0	495.4	499.3	482.5	492.8	472.2	482.5	458.0	473.5	446.4	464.4
27.5°	505.7	495.4	503.1	487.6	496.7	478.6	488.9	467.0	479.9	451.5	469.6
30°	513.4	504.4	510.9	498.0	505.7	487.6	498.0	477.3	490.2	463.1	483.8
32.5°	522.5	513.4	519.9	508.3	519.9	501.8	514.7	494.1	509.6	482.5	501.8
35°	541.8	531.5	540.5	527.6	540.5	526.3	540.5	518.6	538.0	510.9	531.5
37.5°	592.1	563.8	572.8	558.6	571.5	553.4	577.9	556.0	577.9	552.1	580.5
40°	672.1	621.8	630.8	601.2	620.5	593.4	623.1	606.3	636.0	603.7	639.9
42.5°	776.6	728.9	719.9	674.7	691.5	659.2	688.9	659.2	699.2	668.3	713.4
45°	872.1	821.8	807.6	763.7	775.3	732.8	770.2	728.9	781.8	745.7	802.4
47.5°	950.8	891.4	879.8	829.5	850.2	810.2	856.6	812.7	877.2	841.1	906.9
50°	1023.0	949.5	946.9	892.7	927.6	887.6	953.4	923.7	986.9	950.8	1028.2
52.5°	1105.6	1012.7	1025.6	976.6	1032.0	998.5	1074.6	1032.0	1114.6	1075.9	1161.1
55°	1193.3	1095.3	1128.8	1099.1	1164.9	1143.0	1207.5	1168.8	1250.1	1211.4	1301.7
57.5°	1290.1	1206.2	1265.6	1251.4	1309.4	1282.3	1354.6	1319.7	1401.0	1368.8	1459.1
60°	1416.5	1361.0	1419.1	1417.8	1468.1	1466.8	1513.2	1492.6	1570.0	1555.8	1638.4
62.5°	1580.3	1536.5	1598.4	1581.6	1642.2	1631.9	1688.7	1688.7	1744.2	1763.5	1846.1
65°	1800.9	1742.9	1816.4	1790.6	1851.2	1853.8	1889.9	1896.4	1963.5	1985.4	2056.4
67.5°	2100.2	2033.1	2091.2	2042.2	2111.8	2108.0	2138.9	2151.8	2160.9	2213.7	2221.5
70°	2531.1	2430.5	2483.4	2416.3	2429.2	2438.2	2380.2	2422.7	2319.5	2403.4	2289.9
72.5°	2996.8	2882.0	2790.4	2723.3	2590.4	2571.1	2402.1	2438.2	2218.9	2291.2	2061.5
73°	3021.3	2910.4	2786.5	2716.9	2559.5	2538.8	2358.2	2389.2	2146.7	2215.0	1973.8
75°	2746.5	2776.2	2478.2	2506.6	2233.1	2265.3	1982.8	2018.9	1720.9	1772.5	1461.6
77.5°	1851.2	1950.6	1616.4	1741.6	1402.3	1527.4	1144.3	1155.9	843.7	788.2	535.4
80°	917.2	1002.4	710.8	776.6	521.2	512.2	312.2	259.3	220.6	225.8	232.2
82.5°	264.5	298.0	184.5	183.2	130.3	123.8	123.8	131.6	134.2	149.6	145.8
85°	50.3	60.6	52.9	71.0	63.2	69.7	64.5	74.8	69.7	86.4	74.8
87.5°	1.3	0.0	1.3	3.9	3.9	9.0	6.5	10.3	10.3	18.1	16.8
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CATALOG NUMBER: ISC-AF-600-LED-E1-T4W-7050-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	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-600-LED-E1-T4W-7050-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9
2.5°	474.7	481.2	478.6	476.0	473.5	472.2	467.0	469.6	463.1	468.3	463.1
5°	464.4	472.2	468.3	463.1	460.6	458.0	448.9	455.4	445.1	454.1	446.4
7.5°	452.8	465.7	461.8	456.7	451.5	448.9	430.9	445.1	429.6	442.5	429.6
10°	448.9	463.1	458.0	451.5	446.4	443.8	421.9	438.6	421.9	436.0	419.3
12.5°	446.4	463.1	455.4	448.9	443.8	439.9	415.4	436.0	414.1	434.8	415.4
15°	443.8	463.1	452.8	445.1	439.9	436.0	410.2	433.5	408.9	432.2	410.2
17.5°	441.2	459.3	450.2	441.2	436.0	433.5	405.1	429.6	403.8	429.6	407.7
20°	437.3	455.4	445.1	436.0	430.9	427.0	398.6	424.4	397.3	423.1	398.6
22.5°	432.2	451.5	442.5	433.5	428.3	421.9	390.9	418.0	389.6	415.4	392.2
25°	433.5	454.1	442.5	433.5	425.7	419.3	385.7	415.4	383.1	408.9	383.1
27.5°	439.9	458.0	446.4	438.6	428.3	420.6	385.7	412.8	380.6	402.5	375.4
30°	452.8	470.9	460.6	448.9	439.9	429.6	392.2	414.1	380.6	394.8	367.7
32.5°	474.7	491.5	481.2	472.2	461.8	446.4	405.1	420.6	383.1	389.6	361.2
35°	503.1	523.8	518.6	512.2	499.3	472.2	427.0	429.6	388.3	384.4	352.2
37.5°	549.6	577.9	576.7	575.4	561.2	512.2	451.5	447.7	393.5	380.6	340.6
40°	610.2	643.7	652.8	661.8	632.1	559.9	479.9	465.7	396.0	372.8	322.5
42.5°	681.2	726.3	753.4	770.2	716.0	612.8	512.2	486.4	396.0	361.2	301.9
45°	768.9	821.8	873.4	891.4	808.9	669.5	545.7	503.1	390.9	343.2	274.8
47.5°	876.0	937.9	1008.8	1017.9	909.5	730.2	568.9	514.7	374.1	318.6	250.3
50°	994.6	1069.5	1174.0	1167.5	1016.6	793.4	584.4	522.5	344.4	290.3	220.6
52.5°	1127.5	1221.7	1370.0	1340.4	1146.9	872.1	598.6	532.8	308.3	256.7	190.9
55°	1293.9	1406.2	1591.9	1528.7	1291.4	958.5	619.2	534.1	260.6	216.7	169.0
57.5°	1473.3	1593.2	1830.6	1715.8	1426.8	1025.6	610.2	492.8	212.9	183.2	152.2
60°	1688.7	1834.5	2069.3	1889.9	1540.3	1048.8	547.0	406.4	181.9	165.1	144.5
62.5°	1929.9	2074.4	2265.3	2011.2	1604.8	1010.1	406.4	281.2	156.1	147.1	132.9
65°	2186.7	2323.4	2359.5	2021.5	1562.3	839.8	251.6	184.5	135.5	131.6	122.6
67.5°	2422.7	2435.6	2270.5	1853.8	1355.9	585.7	171.6	147.1	125.1	123.8	118.7
70°	2483.4	2260.2	1887.4	1443.6	979.2	348.3	139.3	127.7	120.0	120.0	116.1
72.5°	2074.4	1720.9	1261.7	874.7	534.1	185.8	118.7	116.1	113.5	113.5	110.9
73°	1945.4	1585.5	1130.1	763.7	451.5	166.4	116.1	113.5	112.2	110.9	109.7
75°	1292.6	995.9	641.2	387.0	210.3	120.0	103.2	103.2	101.9	103.2	101.9
77.5°	498.0	375.4	247.7	166.4	120.0	94.2	87.7	89.0	87.7	90.3	89.0
80°	219.3	216.7	163.8	117.4	87.7	71.0	71.0	71.0	72.2	73.5	73.5
82.5°	149.6	126.4	96.8	72.2	52.9	51.6	52.9	52.9	54.2	55.5	54.2
85°	82.6	69.7	51.6	32.3	28.4	34.8	34.8	34.8	33.5	33.5	32.3
87.5°	25.8	19.4	14.2	3.9	6.5	6.5	9.0	7.7	7.7	9.0	9.0
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°
												72.5°
												73°
												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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 NUMBER: ISC-AF-600-LED-E1-T4W-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	479.9	110°	114.0
468.3	464.4	468.3	461.8	467.0	461.8	465.7	465.7	464.4	464.4	464.4	112.5°	136.0
452.8	446.4	452.8	448.9	452.8	447.7	451.5	452.8	454.1	458.0	456.7	115°	158.0
441.2	428.3	442.5	429.6	441.2	429.6	439.9	441.2	445.1	450.2	454.1	117.5°	181.0
436.0	419.3	436.0	420.6	434.8	421.9	434.8	436.0	439.9	446.4	452.8	120°	204.0
433.5	415.4	433.5	418.0	433.5	420.6	433.5	437.3	439.9	445.1	452.8	122.5°	228.0
430.9	412.8	433.5	416.7	433.5	420.6	434.8	437.3	441.2	446.4	452.8	125°	254.0
429.6	408.9	430.9	415.4	430.9	418.0	433.5	433.5	438.6	445.1	448.9	127.5°	277.0
424.4	405.1	424.4	408.9	424.4	412.8	425.7	425.7	430.9	433.5	439.9	130°	301.0
416.7	396.0	414.1	399.9	414.1	402.5	412.8	412.8	416.7	420.6	424.4	132.5°	325.0
405.1	385.7	401.2	388.3	398.6	388.3	396.0	394.8	397.3	399.9	402.5	135°	348.0
392.2	372.8	385.7	371.5	378.0	367.7	372.8	370.2	371.5	372.8	374.1	137.5°	369.0
378.0	358.6	365.1	352.2	353.5	343.2	345.7	341.9	340.6	339.3	336.7	140°	390.0
362.5	341.9	341.9	329.0	326.4	317.4	317.4	312.2	308.3	303.2	298.0	142.5°	412.0
343.2	325.1	316.1	305.7	300.6	291.6	290.3	283.8	274.8	265.8	260.6	145°	433.0
323.8	303.2	290.3	279.9	274.8	268.3	267.0	261.9	251.6	241.2	233.5	147.5°	452.0
298.0	277.4	263.2	259.3	255.4	250.3	251.6	245.1	234.8	223.2	216.7	150°	469.0
272.2	254.1	242.5	241.2	238.7	237.4	238.7	233.5	221.9	211.6	203.8	152.5°	486.0
250.3	232.2	220.6	219.3	218.0	223.2	224.5	223.2	210.3	200.0	189.6	155°	503.0
228.3	206.4	198.7	196.1	197.4	205.1	207.7	211.6	200.0	188.3	174.2	157.5°	517.0
202.5	181.9	179.3	176.7	178.0	184.5	190.9	198.7	188.3	171.6	152.2	160°	530.0
179.3	161.3	162.5	160.0	162.5	167.7	172.9	185.8	172.9	156.1	147.1	162.5°	540.0
161.3	147.1	149.6	147.1	149.6	156.1	160.0	170.3	170.3	166.4	158.7	165°	550.0
148.4	138.0	140.6	138.0	141.9	147.1	150.9	172.9	185.8	175.4	160.0	167.5°	558.0
140.6	131.6	132.9	130.3	132.9	140.6	148.4	174.2	194.8	174.2	162.5	170°	564.0
129.0	121.3	120.0	120.0	122.6	135.5	139.3	162.5	192.2	172.9	163.8	172.5°	567.0
121.3	114.8	113.5	112.2	114.8	123.8	127.7	150.9	185.8	163.8	148.4	175°	570.0
117.4	112.2	109.7	107.1	109.7	117.4	121.3	141.9	175.4	156.1	139.3	177.5°	574.0
113.5	108.4	107.1	104.5	105.8	110.9	116.1	130.3	166.4	147.1	130.3	180°	576.0
108.4	103.2	101.9	98.0	99.3	104.5	107.1	122.6	154.8	138.0	121.3		
107.1	101.9	100.6	96.8	98.0	101.9	104.5	120.0	152.2	136.7	120.0		
100.6	95.5	94.2	91.6	92.9	92.9	95.5	109.7	144.5	129.0	112.2		
89.0	85.1	83.9	81.3	80.0	78.7	82.6	96.8	131.6	116.1	90.3		
73.5	69.7	68.4	63.2	63.2	63.2	68.4	82.6	98.0	83.9	69.7		
54.2	51.6	51.6	47.7	46.4	45.2	49.0	56.8	77.4	65.8	54.2		
32.3	31.0	32.3	28.4	29.7	28.4	32.3	40.0	42.6	33.5	25.8		
7.7	9.0	9.0	9.0	7.7	7.7	6.5	5.2	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		

'227993
 ISC-AF-600-LED-E1-T4W-7050-ULG

REPORT NUMBER: P227993
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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°	479.9	479.9
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	463.1	461.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	456.7	456.7
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	454.1	454.1
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	455.4	455.4
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	455.4	458.0
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	459.3	458.0
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	455.4	455.4
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	445.1	447.7
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	430.9	430.9
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	407.7	408.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	376.7	379.3
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	338.0	340.6
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	294.1	296.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	259.3	260.6
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	236.1	236.1
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	216.7	216.7
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	198.7	197.4
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	180.6	178.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	162.5	161.3
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	147.1	147.1
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	149.6	149.6
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	161.3	161.3
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	162.5	161.3
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	176.7	175.4
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	184.5	188.3
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	161.3	156.1
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	153.5	145.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	138.0	126.4
										72.5°	122.6	116.1
										73°	118.7	113.5
										75°	105.8	103.2
										77.5°	80.0	78.7
										80°	67.1	65.8
										82.5°	45.2	42.6
										85°	19.4	18.1
										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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

