

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: P228384

Luminaire Tested: **ISC-AF-600-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)-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-SL4-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4485.2 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - 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

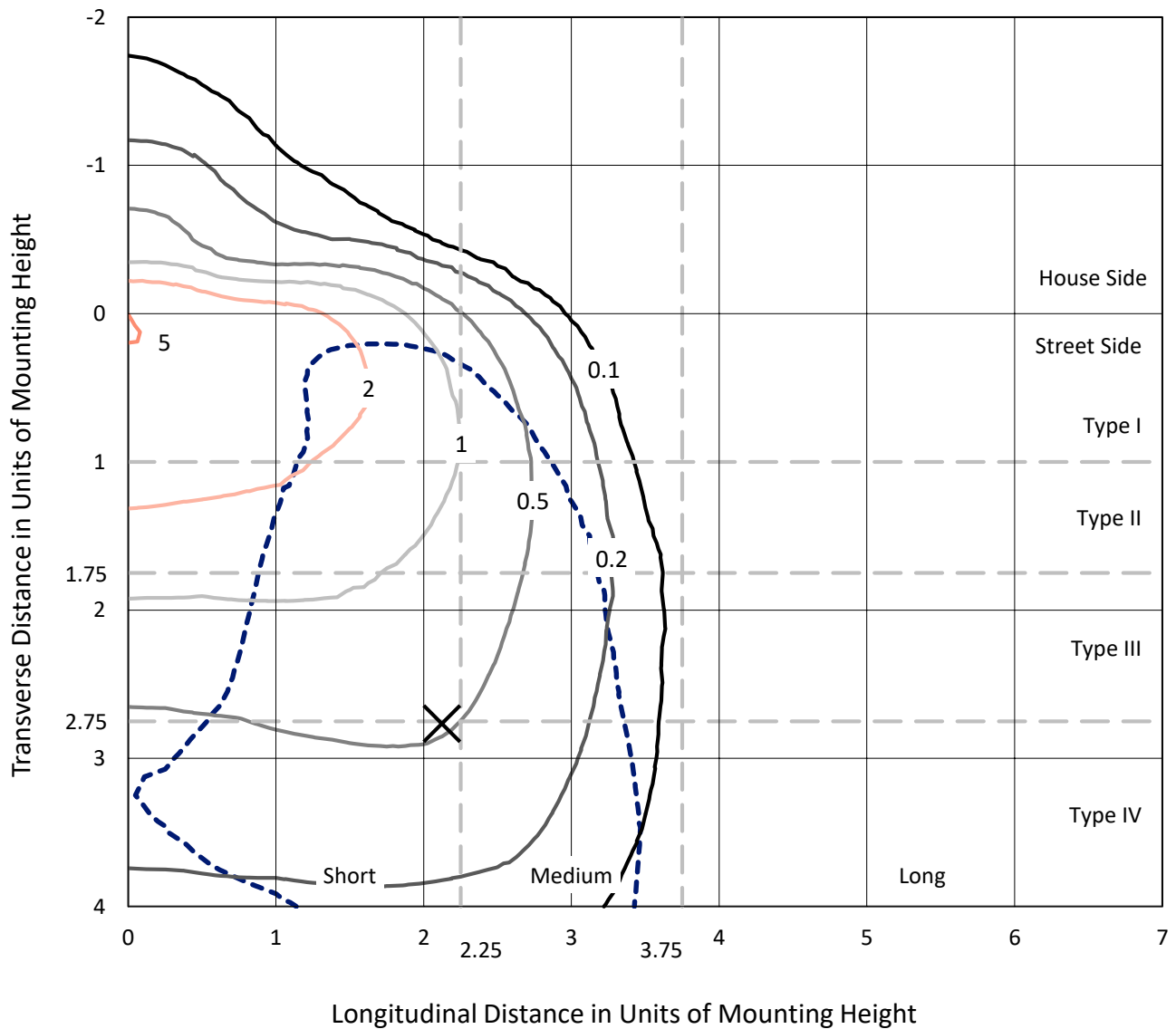


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

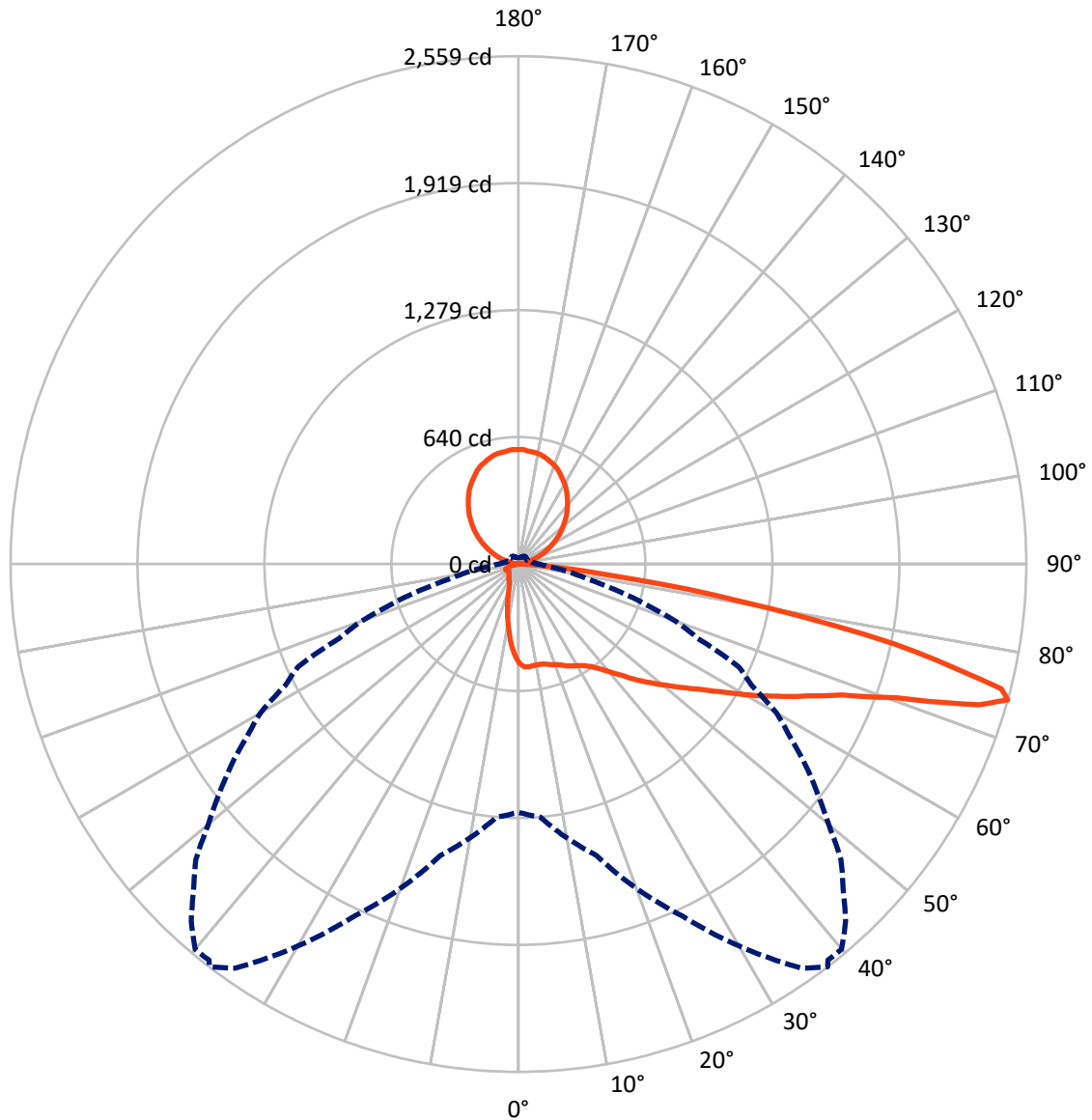


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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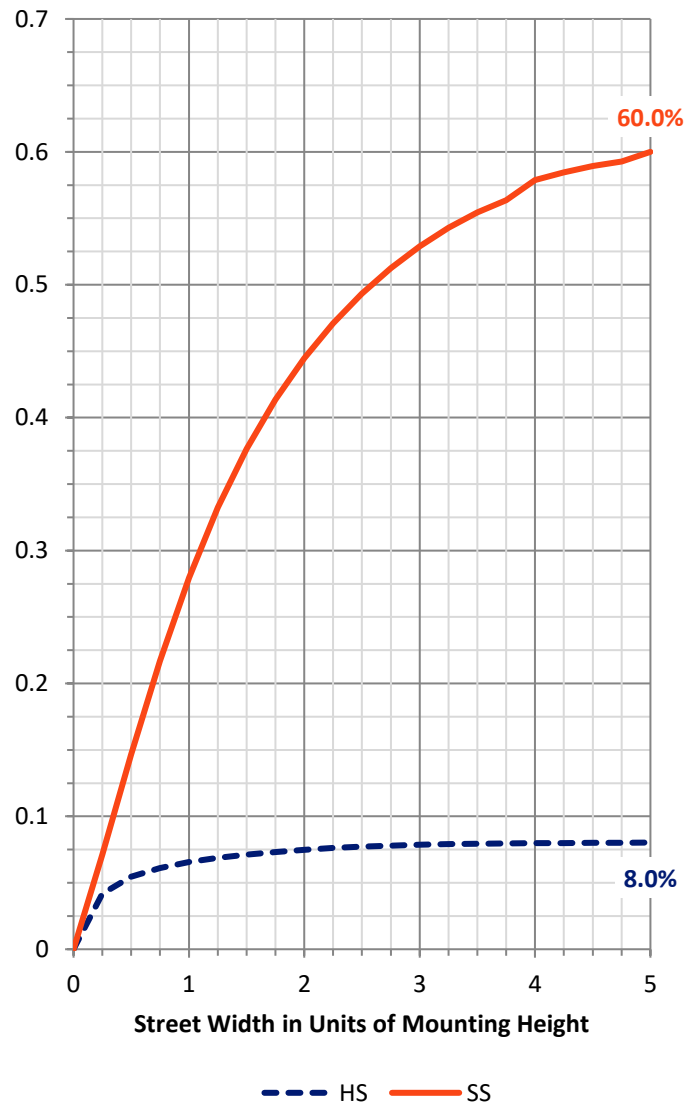
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.7	713.1	1075.8
	% Fixture	8.1	15.9	24.0
Street Side	Lumens	2696.3	713.1	3409.4
	% Fixture	60.1	15.9	76.0
Total	Lumens	3059.0	1426.2	4485.2
	% Fixture	68.2	31.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.0
10°-20°	110.7	2.5
20°-30°	171.6	3.8
30°-40°	254.5	5.7
40°-50°	391.5	8.7
50°-60°	578.6	12.9
60°-70°	771.3	17.2
70°-80°	665.8	14.8
80°-90°	71.6	1.6
90°-100°	4.7	0.1
100°-110°	69.0	1.5
110°-120°	153.0	3.4
120°-130°	223.9	5.0
130°-140°	265.6	5.9
140°-150°	269.3	6.0
150°-160°	231.1	5.2
160°-170°	155.1	3.5
170°-180°	54.3	1.2
0°-90°	3059.0	68.2
0°-180°	4485.2	100.0

Coefficient of Utilization



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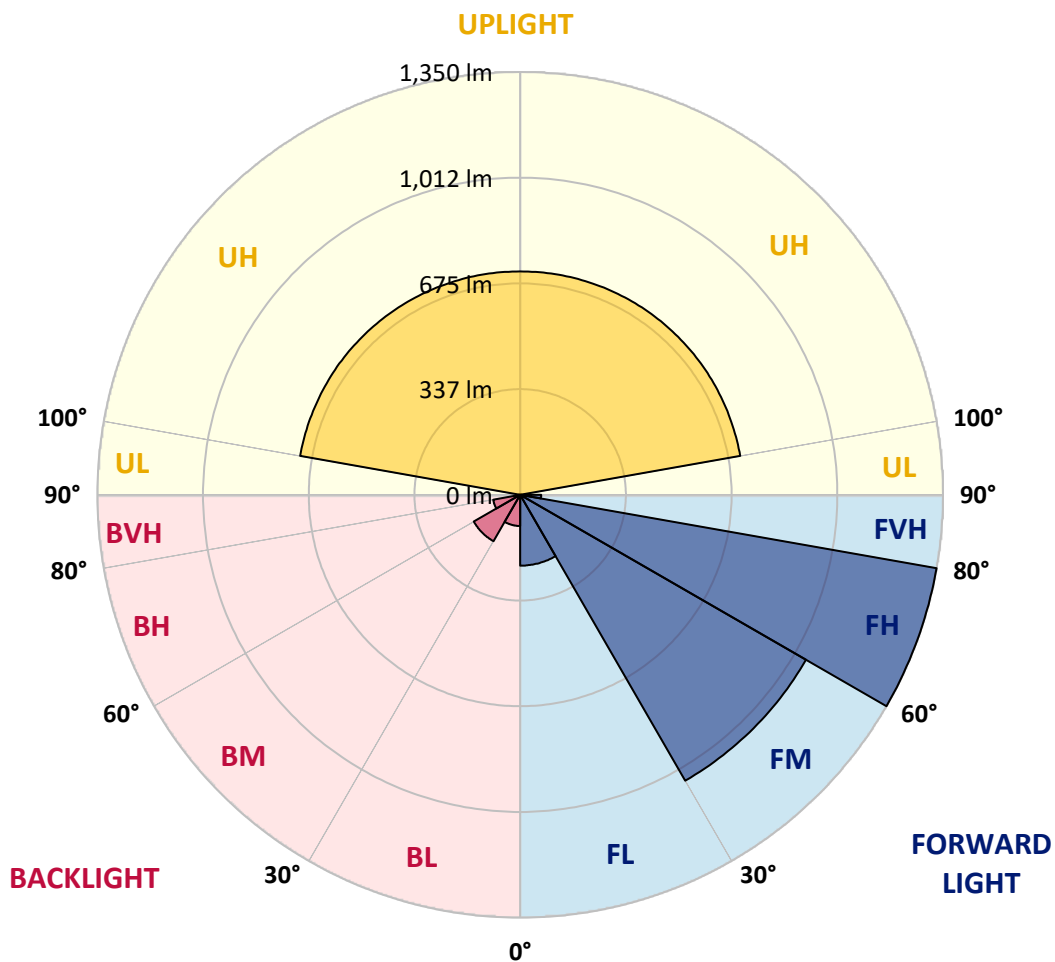
CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.2	5.0			
FM	(30°-60°)	1053.6	23.5			
FH	(60°-80°)	1349.6	30.1			G1/1800
FVH	(80°-90°)	66.9	1.5			G1/100
BL	(0°-30°)	99.6	2.2	B0/110		
BM	(30°-60°)	171.0	3.8	B0/220		
BH	(60°-80°)	87.5	1.9	B0/110		G0/110
BVH	(80°-90°)	4.7	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	15.9		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2
2.5°	527.7	526.6	524.3	523.2	520.9	517.5	520.9	516.3	514.0	516.3	511.7
5°	536.9	535.7	533.4	528.9	526.6	520.9	524.3	518.6	517.5	519.7	514.0
7.5°	538.0	535.7	532.3	526.6	524.3	517.5	519.7	512.9	510.6	512.9	509.5
10°	534.6	533.4	530.0	520.9	518.6	516.3	515.2	510.6	509.5	508.3	507.2
12.5°	528.9	528.9	526.6	523.2	522.0	517.5	518.6	514.0	515.2	512.9	510.6
15°	526.6	525.5	527.7	530.0	530.0	523.2	527.7	524.3	522.0	523.2	519.7
17.5°	524.3	525.5	533.4	538.0	540.3	533.4	540.3	533.4	528.9	534.6	528.9
20°	523.2	526.6	540.3	550.6	551.7	540.3	551.7	540.3	540.3	547.2	536.9
22.5°	528.9	534.6	554.0	565.4	567.7	552.9	566.6	551.7	551.7	557.4	547.2
25°	547.2	552.9	574.6	587.1	584.9	568.9	581.4	566.6	565.4	572.3	558.6
27.5°	571.1	579.1	599.7	611.1	603.1	581.4	599.7	578.0	578.0	588.3	570.0
30°	605.4	611.1	629.4	630.5	620.3	594.0	614.6	590.6	587.1	605.4	582.6
32.5°	643.1	647.7	661.4	653.4	638.5	611.1	635.1	606.6	605.4	624.8	598.6
35°	683.1	687.7	692.2	678.5	664.8	635.1	661.4	632.8	631.7	653.4	628.3
37.5°	724.2	724.2	724.2	708.2	699.1	670.5	694.5	671.7	669.4	692.2	668.2
40°	757.3	759.6	756.2	741.3	736.8	716.2	736.8	716.2	719.6	740.2	720.8
42.5°	784.8	787.0	788.2	775.6	780.2	768.8	784.8	769.9	771.0	793.9	782.5
45°	812.2	811.0	820.2	816.7	830.4	831.6	840.7	835.0	837.3	854.4	851.0
47.5°	840.7	835.0	845.3	860.1	885.3	893.3	899.0	901.3	910.4	918.4	926.4
50°	868.1	862.4	869.3	902.4	942.4	959.5	960.7	972.1	982.4	993.8	1009.8
52.5°	896.7	892.1	899.0	945.8	1009.8	1033.8	1030.3	1049.8	1064.6	1077.2	1103.5
55°	926.4	921.8	928.7	998.4	1081.7	1114.9	1111.4	1138.9	1167.4	1172.0	1201.7
57.5°	955.0	949.2	968.7	1060.0	1167.4	1217.7	1201.7	1244.0	1271.4	1269.1	1310.2
60°	985.8	981.2	1012.1	1135.4	1274.8	1339.9	1315.9	1371.9	1391.3	1383.3	1422.2
62.5°	1015.5	1014.4	1065.8	1223.4	1405.0	1467.8	1446.1	1495.3	1509.0	1498.7	1518.1
65°	1042.9	1049.8	1124.0	1311.3	1530.7	1602.6	1572.9	1622.1	1638.0	1630.0	1663.2
67.5°	1088.6	1096.6	1196.0	1423.3	1686.0	1760.3	1735.1	1786.5	1810.5	1808.2	1844.8
70°	1156.0	1170.8	1302.2	1582.1	1922.5	2017.3	2003.6	2066.4	2124.7	2120.1	2156.6
72.5°	1273.7	1297.6	1477.0	1828.8	2310.9	2426.2	2410.2	2445.6	2435.4	2352.0	2284.6
74°	1250.8	1280.5	1520.4	1957.9	2485.6	2558.7	2532.5	2533.6	2439.9	2313.1	2204.6
75°	1167.4	1198.3	1457.6	1941.9	2473.1	2513.0	2475.3	2428.5	2315.4	2186.3	2052.7
77.5°	800.7	840.7	1071.5	1568.4	1991.0	1936.2	1927.0	1837.9	1688.3	1543.2	1371.9
80°	410.1	438.6	554.0	820.2	1181.1	1126.3	1144.6	1072.6	948.1	843.0	668.2
82.5°	98.2	105.1	163.3	317.6	511.7	468.3	475.2	420.4	348.4	284.4	220.5
85°	51.4	58.3	80.0	88.0	134.8	139.4	135.9	131.4	107.4	90.2	78.8
87.5°	0.0	0.0	0.0	2.3	1.1	0.0	1.1	0.0	0.0	1.1	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	5.5	6.5	7.8	9.0	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	24.4	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	46.5	47.5	48.8	50.0	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	67.2	68.0	69.0	70.0	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	88.9	89.5	90.2	91.0	91.5



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CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	110.6	111.0	111.5	112.0	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	132.6	133.0	133.5	134.0	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	154.6	155.0	155.5	156.0	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	177.6	178.0	178.5	179.0	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.3	201.5	201.8	202.0	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.3	226.5	226.8	227.0	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.3	251.5	251.8	252.0	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	274.6	275.0	275.5	276.0	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.3	298.5	298.8	299.0	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.3	321.5	321.8	322.0	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.3	388.5	388.8	389.0	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.3	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.3	452.5	452.8	453.0	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.3	469.5	469.8	470.0	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.3	485.5	485.8	486.0	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.0	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	541.0	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.7	560.5	560.2	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.7	566.5	566.2	566.0	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.7	568.5	568.2	568.0	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.7	577.5	577.2	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°	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2
2.5°	515.2	512.9	515.2	508.3	511.7	506.0	508.3	502.6	504.9	500.3	501.5
5°	517.5	511.7	515.2	509.5	510.6	506.0	504.9	502.6	501.5	498.0	495.8
7.5°	511.7	507.2	506.0	503.7	500.3	501.5	496.9	495.8	492.3	492.3	485.5
10°	506.0	507.2	500.3	502.6	496.9	498.0	490.0	492.3	486.6	491.2	480.9
12.5°	510.6	511.7	506.0	509.5	499.2	501.5	494.6	498.0	490.0	495.8	483.2
15°	520.9	519.7	517.5	517.5	507.2	511.7	503.7	506.0	498.0	504.9	491.2
17.5°	530.0	528.9	525.5	524.3	517.5	518.6	510.6	515.2	506.0	511.7	498.0
20°	540.3	534.6	533.4	532.3	524.3	524.3	518.6	520.9	511.7	518.6	502.6
22.5°	548.3	543.7	542.6	538.0	532.3	534.6	526.6	527.7	518.6	525.5	511.7
25°	560.9	555.2	555.2	548.3	544.9	543.7	539.2	542.6	533.4	538.0	525.5
27.5°	578.0	565.4	570.0	563.1	560.9	559.7	557.4	559.7	552.9	556.3	543.7
30°	594.0	578.0	584.9	575.7	580.3	575.7	579.1	575.7	575.7	575.7	570.0
32.5°	615.7	596.3	610.0	596.3	605.4	598.6	610.0	603.1	607.7	606.6	604.3
35°	646.5	623.7	643.1	624.8	640.8	631.7	647.7	644.3	653.4	648.8	653.4
37.5°	687.7	663.7	686.5	669.4	688.8	675.1	697.9	695.7	715.1	708.2	715.1
40°	739.1	721.9	739.1	726.5	747.1	741.3	765.3	766.5	788.2	784.8	792.7
42.5°	796.2	783.6	800.7	793.9	814.5	819.0	846.4	853.3	873.9	879.6	880.7
45°	857.9	855.6	869.3	876.1	896.7	910.4	934.4	951.5	974.4	986.9	984.7
47.5°	929.8	939.0	948.1	965.2	983.5	1012.1	1036.1	1057.8	1084.0	1092.0	1095.5
50°	1010.9	1026.9	1034.9	1058.9	1077.2	1112.6	1145.7	1173.1	1201.7	1198.3	1200.5
52.5°	1096.6	1117.2	1128.6	1157.1	1181.1	1222.2	1250.8	1277.1	1312.5	1303.4	1299.9
55°	1191.4	1222.2	1231.4	1263.4	1283.9	1326.2	1351.3	1397.0	1411.9	1402.7	1383.3
57.5°	1291.9	1328.5	1338.8	1382.2	1392.5	1438.1	1459.8	1490.7	1503.3	1488.4	1463.3
60°	1406.2	1439.3	1447.3	1486.1	1499.8	1542.1	1558.1	1585.5	1594.6	1558.1	1522.7
62.5°	1520.4	1554.7	1559.2	1593.5	1607.2	1643.8	1662.0	1678.0	1673.5	1619.8	1575.2
65°	1650.6	1683.7	1695.2	1729.4	1737.4	1764.8	1779.7	1761.4	1751.1	1670.0	1619.8
67.5°	1857.4	1892.8	1897.3	1905.3	1904.2	1890.5	1883.6	1820.8	1775.1	1625.5	1553.5
70°	2129.2	2103.0	2051.6	1992.2	1948.7	1871.1	1825.4	1696.3	1600.3	1432.4	1311.3
72.5°	2178.3	2092.7	1965.9	1864.2	1759.1	1636.9	1538.7	1343.3	1208.5	1032.6	904.7
74°	2039.0	1899.6	1766.0	1623.2	1502.1	1323.9	1224.5	977.8	844.2	666.0	510.6
75°	1871.1	1707.7	1556.9	1375.3	1262.2	1048.6	955.0	688.8	555.2	395.2	266.2
77.5°	1193.7	998.4	854.4	644.3	556.3	383.8	281.0	174.8	129.1	113.1	98.2
80°	535.7	381.5	302.7	209.0	174.8	133.6	113.1	91.4	83.4	73.1	69.7
82.5°	171.3	137.1	130.2	116.5	116.5	93.7	80.0	62.8	57.1	49.1	44.5
85°	74.2	69.7	72.0	66.3	67.4	51.4	41.1	30.8	30.8	21.7	19.4
87.5°	2.3	0.0	1.1	0.0	2.3	0.0	1.1	0.0	1.1	0.0	1.1
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



REPORT NUMBER: P228384

CATALOG NUMBER: ISC-AF-600-LED-E1-SL4-7030-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-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2
2.5°	496.9	499.2	498.0	493.5	492.3	488.9	480.9	482.0	477.5	480.9	475.2
5°	492.3	491.2	486.6	480.9	475.2	468.3	462.6	460.3	455.8	453.5	450.1
7.5°	485.5	480.9	472.9	463.8	455.8	446.6	442.1	434.1	431.8	423.8	422.6
10°	483.2	475.2	466.1	454.6	440.9	427.2	426.1	412.4	411.2	398.7	395.2
12.5°	487.8	477.5	466.1	452.3	436.4	416.9	416.9	396.4	395.2	378.1	372.4
15°	496.9	484.3	469.5	453.5	432.9	408.9	407.8	383.8	381.5	361.0	354.1
17.5°	504.9	487.8	474.1	452.3	428.4	400.9	395.2	371.2	366.7	342.7	333.5
20°	510.6	491.2	475.2	450.1	420.4	388.4	380.4	355.3	345.0	321.0	308.4
22.5°	517.5	499.2	477.5	448.9	415.8	378.1	361.0	338.1	323.3	298.1	281.0
25°	527.7	511.7	485.5	452.3	412.4	367.8	345.0	321.0	300.4	275.3	250.2
27.5°	543.7	527.7	496.9	456.9	411.2	357.5	332.4	302.7	277.6	250.2	221.6
30°	566.6	549.4	516.3	469.5	412.4	349.5	318.7	286.7	257.0	225.0	195.3
32.5°	596.3	582.6	541.4	483.2	416.9	342.7	306.1	269.6	233.0	202.2	175.9
35°	637.4	628.3	576.9	509.5	428.4	339.3	293.6	253.6	212.5	181.6	153.1
37.5°	697.9	685.4	628.3	547.2	446.6	337.0	284.4	234.2	195.3	162.2	138.2
40°	774.5	757.3	688.8	592.8	475.2	338.1	276.4	219.3	180.5	145.1	125.7
42.5°	865.9	840.7	763.0	648.8	503.7	340.4	271.9	205.6	169.1	131.4	116.5
45°	968.7	940.1	851.0	718.5	544.9	346.1	268.4	194.2	158.8	121.1	110.8
47.5°	1069.2	1040.6	941.2	788.2	587.1	356.4	270.7	187.3	151.9	115.4	103.9
50°	1167.4	1137.7	1021.2	851.0	623.7	370.1	279.9	188.5	150.8	113.1	100.5
52.5°	1254.2	1217.7	1089.7	900.1	650.0	379.2	287.9	191.9	151.9	111.9	99.4
55°	1341.0	1294.2	1144.6	939.0	666.0	380.4	287.9	193.0	153.1	111.9	98.2
57.5°	1406.2	1352.5	1186.8	961.8	671.7	374.7	281.0	187.3	146.2	110.8	96.0
60°	1447.3	1390.2	1216.5	976.7	663.7	350.7	244.4	165.6	129.1	102.8	89.1
62.5°	1481.5	1423.3	1225.7	951.5	596.3	278.7	190.8	134.8	107.4	91.4	82.2
65°	1489.5	1419.9	1161.7	840.7	466.1	193.0	138.2	106.2	88.0	81.1	74.2
67.5°	1368.5	1285.1	976.7	658.0	317.6	132.5	102.8	86.8	75.4	72.0	69.7
70°	1112.6	1021.2	715.1	430.6	177.1	92.5	78.8	72.0	65.1	65.1	61.7
72.5°	717.4	622.5	366.7	183.9	90.2	70.8	64.0	61.7	56.0	57.1	53.7
74°	366.7	285.6	149.6	97.1	74.2	62.8	57.1	56.0	50.3	51.4	48.0
75°	186.2	147.4	105.1	81.1	68.5	59.4	52.5	52.5	45.7	46.8	43.4
77.5°	86.8	83.4	72.0	64.0	58.3	50.3	43.4	42.3	35.4	37.7	33.1
80°	60.5	60.5	56.0	53.7	48.0	41.1	33.1	33.1	26.3	27.4	24.0
82.5°	34.3	32.0	32.0	36.6	37.7	30.8	24.0	22.8	19.4	19.4	16.0
85°	14.8	17.1	20.6	25.1	27.4	24.0	17.1	16.0	10.3	10.3	5.7
87.5°	0.0	1.1	1.1	2.3	4.6	4.6	0.0	2.3	0.0	1.1	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°
												72.5°
												74°
												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
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	110°	114.0
477.5	471.8	475.2	469.5	471.8	466.1	468.3	464.9	461.5	456.9	455.8	112.5°	136.0
446.6	442.1	440.9	435.2	436.4	431.8	427.2	421.5	414.7	405.5	402.1	115°	158.0
412.4	411.2	403.2	399.8	395.2	390.7	382.7	373.5	359.8	347.3	339.3	117.5°	181.0
382.7	379.2	367.8	362.1	355.3	349.5	338.1	325.6	306.1	286.7	276.4	120°	204.0
357.5	353.0	338.1	331.3	321.0	314.1	300.4	284.4	257.0	229.6	217.0	122.5°	228.0
337.0	330.1	313.0	302.7	289.0	282.1	267.3	244.4	211.3	182.8	165.6	125°	254.0
313.0	303.8	285.6	273.0	259.3	246.7	231.9	207.9	170.2	143.9	126.8	127.5°	277.0
286.7	275.3	255.9	238.7	223.9	212.5	197.6	173.6	135.9	115.4	106.2	130°	301.0
259.3	241.0	223.9	209.0	191.9	180.5	165.6	143.9	115.4	103.9	100.5	132.5°	325.0
230.7	210.2	193.0	178.2	162.2	151.9	139.4	122.2	105.1	101.7	101.7	135°	348.0
202.2	181.6	165.6	150.8	137.1	130.2	118.8	107.4	99.4	100.5	101.7	137.5°	369.0
175.9	155.4	140.5	129.1	116.5	111.9	102.8	96.0	94.8	98.2	99.4	140°	390.0
153.1	134.8	121.1	111.9	101.7	99.4	91.4	88.0	91.4	96.0	94.8	142.5°	412.0
133.6	118.8	105.1	99.4	90.2	89.1	83.4	81.1	85.7	91.4	91.4	145°	433.0
118.8	105.1	94.8	90.2	83.4	82.2	77.7	75.4	78.8	86.8	89.1	147.5°	452.0
106.2	98.2	88.0	83.4	78.8	76.5	74.2	72.0	73.1	83.4	84.5	150°	469.0
98.2	92.5	83.4	81.1	75.4	74.2	70.8	68.5	69.7	77.7	81.1	152.5°	486.0
92.5	88.0	80.0	78.8	73.1	72.0	68.5	66.3	67.4	74.2	77.7	155°	503.0
88.0	83.4	76.5	74.2	70.8	69.7	67.4	65.1	65.1	72.0	75.4	157.5°	517.0
85.7	81.1	74.2	72.0	68.5	67.4	65.1	62.8	64.0	69.7	72.0	160°	530.0
84.5	78.8	73.1	69.7	67.4	65.1	62.8	60.5	61.7	67.4	69.7	162.5°	540.0
84.5	77.7	73.1	69.7	66.3	62.8	61.7	58.3	60.5	65.1	68.5	165°	550.0
84.5	77.7	73.1	69.7	67.4	64.0	61.7	59.4	60.5	65.1	68.5	167.5°	558.0
82.2	76.5	74.2	70.8	69.7	66.3	65.1	62.8	62.8	68.5	74.2	170°	564.0
78.8	75.4	74.2	72.0	72.0	69.7	69.7	67.4	67.4	74.2	80.0	172.5°	567.0
74.2	72.0	73.1	72.0	72.0	72.0	70.8	70.8	70.8	76.5	83.4	175°	570.0
69.7	68.5	69.7	69.7	70.8	69.7	70.8	69.7	69.7	75.4	82.2	177.5°	574.0
62.8	62.8	64.0	62.8	64.0	64.0	65.1	65.1	65.1	68.5	75.4	180°	576.0
54.8	53.7	54.8	53.7	56.0	53.7	56.0	57.1	56.0	57.1	60.5		
49.1	48.0	49.1	48.0	50.3	48.0	49.1	49.1	48.0	38.8	33.1		
44.5	43.4	44.5	43.4	45.7	43.4	45.7	44.5	42.3	28.6	27.4		
35.4	32.0	35.4	32.0	34.3	30.8	33.1	28.6	21.7	20.6	20.6		
26.3	22.8	25.1	21.7	20.6	16.0	17.1	16.0	14.8	16.0	16.0		
16.0	11.4	13.7	10.3	12.6	9.1	11.4	10.3	9.1	9.1	9.1		
8.0	5.7	8.0	4.6	6.9	4.6	5.7	5.7	3.4	3.4	3.4		
1.1	0.0	2.3	0.0	2.3	0.0	1.1	1.1	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		

'228384
 ISC-AF-600-LED-E1-SL4-7030-ULG

REPORT NUMBER: P228384
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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°	499.2	499.2
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	452.3	453.5
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	396.4	399.8
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	334.7	337.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	269.6	271.9
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	207.9	210.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	156.5	154.2
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	119.9	117.7
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	101.7	101.7
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	99.4	98.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	100.5	99.4
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	100.5	99.4
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	98.2	97.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	94.8	93.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	91.4	91.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	89.1	90.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	85.7	86.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	82.2	83.4
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	78.8	80.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	75.4	75.4
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	70.8	70.8
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	69.7	69.7
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	69.7	69.7
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	72.0	72.0
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	78.8	80.0
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	92.5	93.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	106.2	108.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	577.0	578.0	574.0	67.5°	107.4	110.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	103.9	107.4
										72.5°	72.0	72.0
										74°	32.0	30.8
										75°	27.4	26.3
										77.5°	20.6	20.6
										80°	14.8	13.7
										82.5°	8.0	8.0
										85°	2.3	2.3
										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

