

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: P227729

Luminaire Tested: **ISC-AF-800-LED-E1-T3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-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-800-LED-E1-T3-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 5754.2 lumens
Efficiency: N/A
Efficacy: 95.6 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

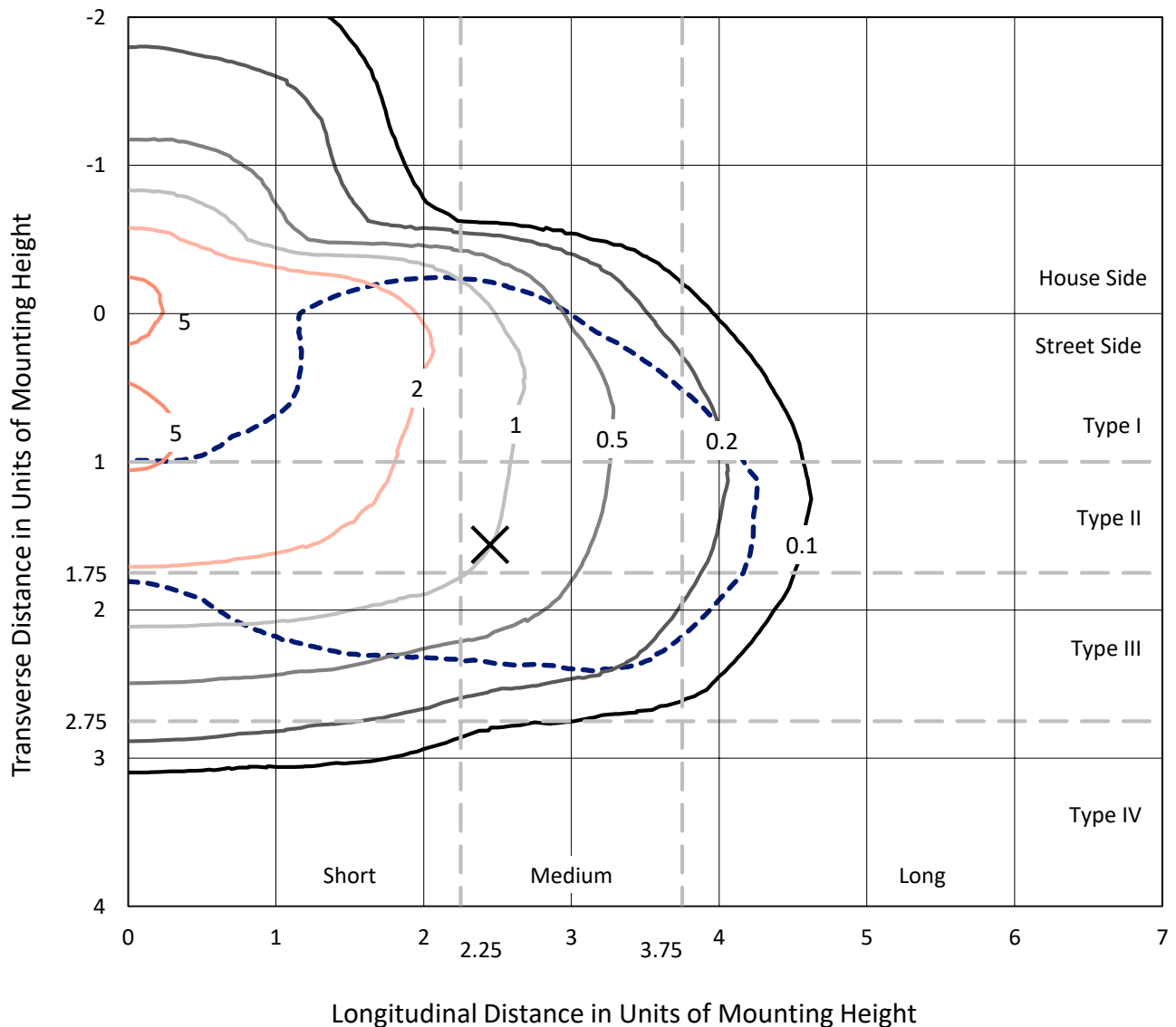
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227729
 CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

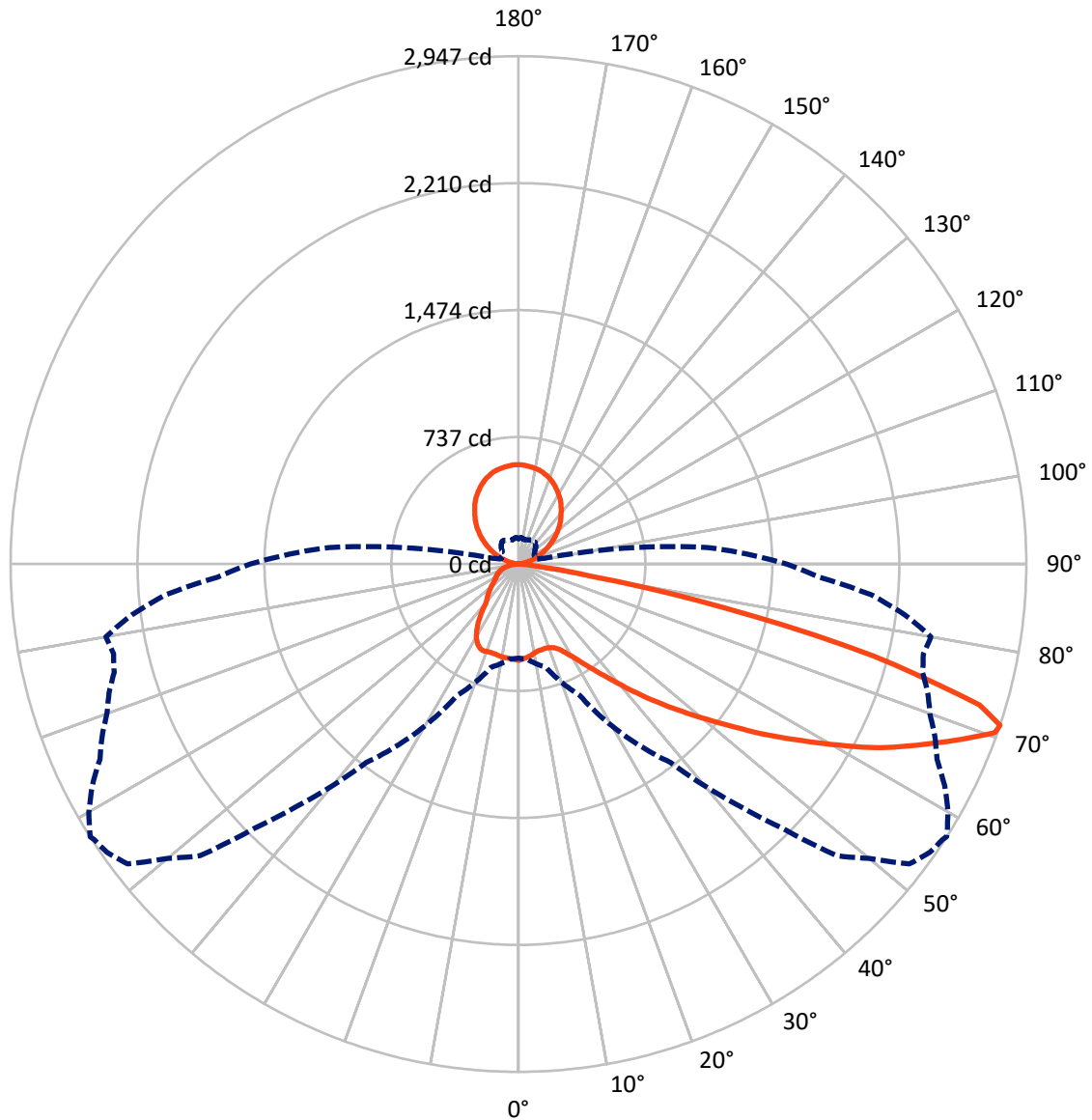
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P227729
CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

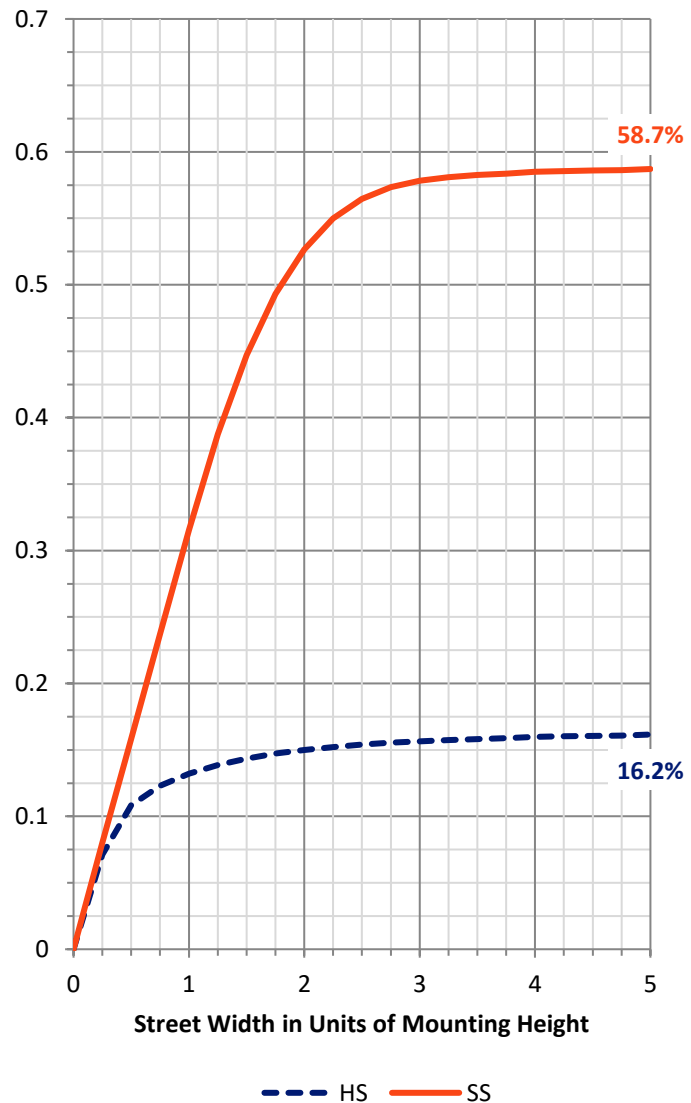
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.2	713.1	1655.3
	% Fixture	16.4	12.4	28.8
Street Side	Lumens	3385.8	713.1	4098.9
	% Fixture	58.8	12.4	71.2
Total	Lumens	4328.0	1426.2	5754.2
	% Fixture	75.2	24.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	0.9
10°-20°	151.6	2.6
20°-30°	251.7	4.4
30°-40°	400.7	7.0
40°-50°	651.0	11.3
50°-60°	976.0	17.0
60°-70°	1164.4	20.2
70°-80°	628.9	10.9
80°-90°	51.2	0.9
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.7
120°-130°	223.9	3.9
130°-140°	265.6	4.6
140°-150°	269.3	4.7
150°-160°	231.1	4.0
160°-170°	155.1	2.7
170°-180°	54.3	0.9
0°-90°	4328.0	75.2
0°-180°	5754.2	100.0



REPORT NUMBER: P227729

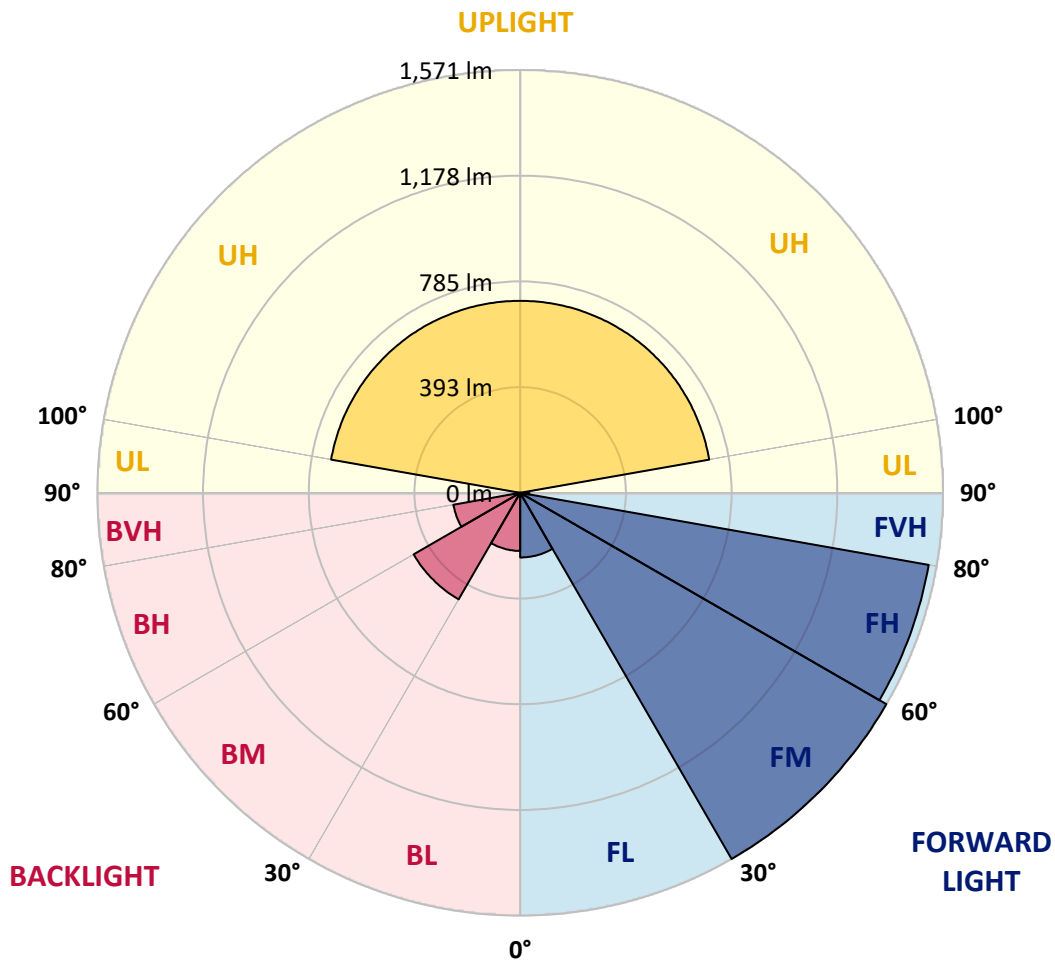
CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.1	4.2			
FM	(30°-60°)	1570.8	27.3			
FH	(60°-80°)	1541.2	26.8			G1/1800
FVH	(80°-90°)	33.7	0.6			G1/100
BL	(0°-30°)	215.8	3.8	B1/500		
BM	(30°-60°)	456.9	7.9	B1/1000		
BH	(60°-80°)	252.0	4.4	B1/500		G1/500
BVH	(80°-90°)	17.5	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	12.4		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
2.5°	559.1	557.7	556.3	556.3	556.3	554.8	550.5	552.0	556.3	553.4	557.7
5°	557.7	554.8	553.4	553.4	553.4	549.1	547.7	546.2	554.8	547.7	553.4
7.5°	542.0	542.0	539.1	542.0	544.8	540.5	537.7	539.1	546.2	539.1	546.2
10°	530.5	527.7	526.2	526.2	529.1	523.4	520.5	523.4	531.9	523.4	533.4
12.5°	526.2	527.7	523.4	523.4	521.9	514.8	514.8	514.8	521.9	514.8	523.4
15°	533.4	531.9	527.7	524.8	520.5	514.8	513.4	514.8	520.5	511.9	521.9
17.5°	543.4	543.4	536.2	529.1	524.8	519.1	519.1	516.2	520.5	514.8	521.9
20°	569.1	564.8	554.8	543.4	531.9	529.1	523.4	523.4	526.2	520.5	524.8
22.5°	613.5	609.2	592.0	570.6	552.0	544.8	542.0	540.5	537.7	534.8	534.8
25°	672.1	664.9	644.9	619.2	587.7	582.0	576.3	572.0	562.0	562.0	554.8
27.5°	735.0	727.8	706.4	677.8	639.2	630.6	623.5	617.7	600.6	600.6	587.7
30°	806.5	797.9	772.2	740.7	696.4	693.5	683.5	674.9	652.1	650.6	633.5
32.5°	889.4	878.0	852.3	810.8	763.6	765.0	749.3	743.6	713.5	715.0	692.1
35°	983.8	970.9	945.2	890.9	842.2	846.5	832.2	822.2	785.0	785.0	760.7
37.5°	1083.9	1083.9	1051.0	988.1	929.5	939.5	922.3	912.3	875.1	880.9	842.2
40°	1195.4	1202.6	1166.8	1095.3	1035.3	1039.6	1026.7	1015.3	970.9	980.9	939.5
42.5°	1312.7	1325.6	1294.1	1219.8	1152.5	1166.8	1145.4	1134.0	1086.8	1108.2	1059.6
45°	1482.9	1485.7	1427.1	1355.6	1299.8	1312.7	1282.7	1278.4	1219.8	1242.6	1194.0
47.5°	1590.1	1583.0	1540.1	1497.2	1464.3	1490.0	1462.8	1455.7	1388.5	1404.2	1335.6
50°	1663.0	1667.3	1634.4	1630.1	1635.9	1684.5	1680.2	1665.9	1585.8	1574.4	1488.6
52.5°	1728.8	1710.2	1704.5	1744.5	1806.0	1863.2	1886.1	1867.5	1780.3	1748.8	1665.9
55°	1717.4	1690.2	1720.2	1817.5	1939.0	2027.7	2030.5	2017.7	1939.0	1926.1	1836.1
57.5°	1640.2	1645.9	1707.4	1846.1	2052.0	2143.5	2159.2	2143.5	2079.2	2090.6	2016.2
60°	1532.9	1544.4	1641.6	1820.3	2142.1	2220.7	2227.9	2246.5	2203.6	2233.6	2182.1
62.5°	1372.8	1388.5	1512.9	1756.0	2079.2	2196.4	2262.2	2305.1	2296.5	2365.1	2338.0
65°	1261.2	1261.2	1382.8	1681.6	2017.7	2172.1	2270.8	2350.8	2362.3	2471.0	2461.0
67.5°	1053.9	1061.0	1165.4	1474.3	1943.3	2117.8	2266.5	2402.3	2471.0	2642.6	2651.1
70°	729.3	735.0	803.6	1052.4	1570.1	1718.8	1937.6	2159.2	2365.1	2624.0	2758.4
71°	546.2	553.4	620.6	839.4	1329.9	1452.8	1680.2	1910.4	2169.2	2505.3	2656.9
72.5°	267.4	271.7	337.5	539.1	925.2	1082.5	1214.0	1434.2	1708.8	2093.5	2307.9
75°	124.4	125.8	140.1	194.5	353.2	420.4	479.0	620.6	790.8	1128.2	1388.5
77.5°	91.5	91.5	100.1	127.3	183.0	185.9	183.0	187.3	225.9	323.2	486.2
80°	67.2	67.2	72.9	85.8	121.5	121.5	117.3	118.7	114.4	118.7	134.4
82.5°	44.3	44.3	47.2	51.5	74.4	74.4	71.5	71.5	68.6	67.2	72.9
85°	25.7	27.2	28.6	24.3	31.5	30.0	27.2	30.0	28.6	25.7	31.5
87.5°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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



REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-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



REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
2.5°	552.0	556.3	556.3	550.5	554.8	550.5	553.4	549.1	553.4	546.2	554.8
5°	547.7	552.0	552.0	543.4	552.0	543.4	550.5	540.5	550.5	539.1	550.5
7.5°	536.2	546.2	546.2	534.8	544.8	536.2	544.8	534.8	543.4	530.5	544.8
10°	523.4	533.4	534.8	523.4	534.8	524.8	537.7	524.8	537.7	523.4	539.1
12.5°	514.8	526.2	529.1	516.2	530.5	517.6	533.4	519.1	533.4	517.6	536.2
15°	513.4	523.4	526.2	514.8	527.7	513.4	531.9	514.8	533.4	516.2	537.7
17.5°	514.8	523.4	526.2	513.4	526.2	514.8	530.5	516.2	533.4	517.6	537.7
20°	519.1	524.8	524.8	517.6	527.7	517.6	530.5	516.2	534.8	520.5	539.1
22.5°	531.9	533.4	533.4	527.7	533.4	526.2	536.2	526.2	539.1	527.7	544.8
25°	553.4	552.0	549.1	547.7	549.1	544.8	550.5	543.4	556.3	546.2	563.4
27.5°	590.6	584.9	582.0	582.0	580.6	582.0	582.0	579.1	584.9	582.0	593.4
30°	636.3	626.3	622.0	626.3	620.6	626.3	624.9	623.5	629.2	626.3	636.3
32.5°	696.4	679.2	676.4	684.9	673.5	683.5	674.9	679.2	683.5	686.4	692.1
35°	766.5	746.4	743.6	752.2	739.3	753.6	743.6	749.3	752.2	759.3	763.6
37.5°	849.4	825.1	820.8	832.2	815.1	830.8	816.5	833.7	829.4	839.4	843.7
40°	949.5	920.9	910.9	926.6	906.6	919.5	905.2	923.8	919.5	939.5	943.8
42.5°	1072.5	1031.0	1021.0	1036.7	1006.7	1011.0	999.5	1021.0	1018.1	1045.3	1049.6
45°	1199.7	1149.7	1135.4	1151.1	1116.8	1125.4	1108.2	1131.1	1129.7	1151.1	1168.3
47.5°	1341.3	1279.8	1261.2	1278.4	1236.9	1246.9	1229.8	1254.1	1255.5	1279.8	1297.0
50°	1488.6	1424.2	1399.9	1415.7	1377.0	1384.2	1367.0	1397.1	1395.6	1428.5	1441.4
52.5°	1648.7	1583.0	1564.4	1571.5	1525.8	1534.3	1520.0	1557.2	1548.6	1568.7	1594.4
55°	1826.1	1750.3	1728.8	1750.3	1695.9	1707.4	1688.8	1723.1	1708.8	1734.5	1741.7
57.5°	2007.7	1933.3	1916.1	1931.9	1880.4	1889.0	1864.7	1893.3	1881.8	1899.0	1910.4
60°	2200.7	2133.5	2116.3	2133.5	2083.4	2084.9	2043.4	2073.4	2056.3	2077.7	2073.4
62.5°	2385.2	2328.0	2323.7	2348.0	2285.1	2277.9	2227.9	2249.3	2225.0	2239.3	2222.1
65°	2542.5	2509.6	2515.3	2535.3	2479.5	2462.4	2405.2	2416.6	2380.9	2380.9	2359.4
67.5°	2748.4	2712.6	2712.6	2729.8	2659.7	2615.4	2536.7	2526.7	2468.1	2456.7	2406.6
70°	2920.0	2930.0	2918.5	2932.8	2849.9	2759.8	2655.4	2605.4	2528.2	2491.0	2432.4
71°	2858.5	2915.7	2935.7	2947.1	2878.5	2788.4	2679.7	2615.4	2541.0	2491.0	2428.1
72.5°	2579.6	2718.3	2797.0	2797.0	2805.6	2748.4	2644.0	2573.9	2489.6	2423.8	2365.1
75°	1807.5	2033.4	2134.9	2123.5	2197.8	2223.6	2232.2	2202.1	2154.9	2060.6	2019.1
77.5°	805.1	1061.0	1214.0	1215.5	1295.5	1365.6	1421.4	1480.0	1458.6	1412.8	1409.9
80°	183.0	331.7	424.7	429.0	501.9	566.3	604.9	663.5	670.6	604.9	567.7
82.5°	78.6	92.9	105.8	104.4	128.7	154.4	183.0	198.8	191.6	158.7	150.1
85°	32.9	42.9	45.8	42.9	52.9	58.6	68.6	70.1	81.5	72.9	77.2
87.5°	0.0	1.4	1.4	0.0	2.9	0.0	2.9	1.4	7.1	2.9	8.6
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°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	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	180.2	180.5	180.8	181.0	180.8	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	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	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



REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
2.5°	549.1	556.3	549.1	556.3	552.0	556.3	554.8	556.3	549.1	556.3	547.7
5°	539.1	550.5	540.5	549.1	540.5	550.5	550.5	550.5	540.5	552.0	542.0
7.5°	530.5	543.4	530.5	543.4	534.8	544.8	544.8	549.1	537.7	550.5	536.2
10°	521.9	537.7	521.9	540.5	526.2	542.0	543.4	546.2	530.5	547.7	533.4
12.5°	517.6	537.7	519.1	537.7	520.5	542.0	543.4	546.2	529.1	550.5	531.9
15°	517.6	539.1	519.1	539.1	520.5	542.0	544.8	547.7	529.1	552.0	531.9
17.5°	517.6	539.1	521.9	540.5	523.4	543.4	546.2	549.1	531.9	552.0	534.8
20°	521.9	542.0	524.8	544.8	527.7	547.7	549.1	553.4	534.8	553.4	537.7
22.5°	531.9	549.1	534.8	553.4	540.5	556.3	557.7	562.0	547.7	563.4	550.5
25°	549.1	567.7	556.3	570.6	563.4	576.3	579.1	579.1	573.4	583.4	579.1
27.5°	584.9	599.2	590.6	603.4	599.2	609.2	609.2	610.6	614.9	617.7	622.0
30°	630.6	640.6	637.8	644.9	646.3	652.1	652.1	660.6	677.8	660.6	659.2
32.5°	692.1	697.8	699.2	702.1	707.8	712.1	717.8	727.8	742.1	702.1	689.2
35°	767.9	769.3	773.6	777.9	787.9	790.8	809.4	802.2	802.2	739.3	712.1
37.5°	850.8	850.8	862.3	862.3	886.6	888.0	906.6	869.4	848.0	766.5	726.4
40°	955.2	953.8	966.6	969.5	1002.4	1003.8	1001.0	919.5	873.7	773.6	719.3
42.5°	1065.3	1069.6	1086.8	1092.5	1116.8	1125.4	1089.6	953.8	885.1	769.3	695.0
45°	1185.4	1194.0	1215.5	1231.2	1256.9	1246.9	1161.1	969.5	872.3	743.6	647.8
47.5°	1317.0	1325.6	1342.7	1372.8	1384.2	1372.8	1219.8	975.2	852.3	703.5	579.1
50°	1450.0	1464.3	1488.6	1531.5	1537.2	1508.6	1291.2	996.7	836.5	662.1	500.5
52.5°	1600.1	1614.4	1643.0	1714.5	1700.2	1641.6	1375.6	1036.7	840.8	636.3	433.3
55°	1758.8	1778.9	1834.6	1904.7	1873.2	1781.7	1468.6	1095.3	858.0	609.2	358.9
57.5°	1926.1	1947.6	2020.5	2103.5	2042.0	1919.0	1562.9	1141.1	866.6	553.4	277.4
60°	2092.0	2122.1	2216.4	2285.1	2189.3	2036.3	1647.3	1171.1	843.7	447.6	214.5
62.5°	2243.6	2292.2	2398.0	2435.2	2282.2	2110.6	1693.1	1149.7	750.7	308.9	173.0
65°	2350.8	2413.8	2482.4	2478.1	2265.0	2086.3	1658.7	1051.0	559.1	204.5	147.3
67.5°	2396.6	2455.2	2471.0	2398.0	2142.1	1979.1	1535.8	846.5	321.7	153.0	128.7
70°	2413.8	2463.8	2375.2	2199.3	1901.8	1715.9	1255.5	539.1	175.9	124.4	111.5
71°	2406.6	2430.9	2262.2	2056.3	1748.8	1554.4	1101.1	410.4	150.1	115.8	105.8
72.5°	2309.4	2275.1	2014.8	1786.0	1482.9	1285.5	856.5	258.8	123.0	104.4	98.7
75°	1887.5	1733.1	1482.9	1266.9	1009.5	807.9	464.7	133.0	98.7	90.1	85.8
77.5°	1234.1	1099.6	893.7	726.4	552.0	419.0	190.2	91.5	78.6	75.8	74.4
80°	440.4	353.2	267.4	234.5	177.3	145.9	92.9	70.1	61.5	62.9	61.5
82.5°	124.4	114.4	98.7	91.5	80.1	78.6	60.1	52.9	48.6	51.5	50.0
85°	61.5	52.9	38.6	37.2	28.6	32.9	30.0	35.7	31.5	32.9	30.0
87.5°	4.3	5.7	1.4	4.3	0.0	4.3	5.7	7.1	1.4	5.7	4.3
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°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2



REPORT NUMBER: P227729
 CATALOG NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	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°

NUMBER: P227729
 NUMBER: ISC-AF-800-LED-E1-T3-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	110°	113.5
557.7	552.0	559.1	552.0	559.1	554.8	559.1	554.8	559.1	562.0	562.0	112.5°	135.5
554.8	544.8	557.7	550.5	559.1	552.0	557.7	553.4	560.5	563.4	566.3	115°	158.0
553.4	543.4	556.3	546.2	559.1	549.1	557.7	552.0	560.5	563.4	569.1	117.5°	180.5
552.0	539.1	556.3	542.0	557.7	547.7	557.7	549.1	559.1	562.0	563.4	120°	204.0
552.0	537.7	556.3	540.5	557.7	543.4	556.3	543.4	557.7	556.3	552.0	122.5°	228.5
553.4	534.8	556.3	537.7	556.3	539.1	554.8	537.7	552.0	547.7	544.8	125°	254.0
553.4	534.8	554.8	536.2	553.4	537.7	550.5	534.8	547.7	546.2	542.0	127.5°	277.5
556.3	537.7	554.8	542.0	554.8	539.1	549.1	534.8	544.8	536.2	519.1	130°	301.5
564.8	552.0	564.8	552.0	557.7	543.4	547.7	530.5	529.1	514.8	487.6	132.5°	325.5
584.9	579.1	576.3	560.5	556.3	537.7	531.9	511.9	504.8	483.3	446.1	135°	348.5
610.6	597.7	580.6	562.0	543.4	520.5	504.8	489.0	473.3	446.1	399.0	137.5°	369.5
627.7	609.2	573.4	547.7	513.4	494.8	467.6	450.4	427.6	393.2	347.5	140°	391.0
639.2	610.6	556.3	526.2	480.5	456.2	420.4	401.8	368.9	336.0	303.2	142.5°	412.5
642.0	604.9	533.4	500.5	440.4	413.3	366.1	346.0	314.6	291.7	278.8	145°	433.5
630.6	584.9	497.6	454.7	388.9	357.5	313.2	298.9	280.3	271.7	266.0	147.5°	452.5
607.7	546.2	441.9	391.8	324.6	300.3	277.4	277.4	267.4	263.1	253.1	150°	469.0
566.3	489.0	370.4	321.7	276.0	271.7	258.8	264.5	257.4	254.5	240.2	152.5°	486.0
501.9	407.5	298.9	270.3	248.8	251.7	243.1	248.8	244.5	243.1	225.9	155°	503.5
419.0	324.6	251.7	241.7	227.4	231.7	224.5	231.7	227.4	228.8	215.9	157.5°	517.5
334.6	263.1	223.1	217.4	207.3	210.2	205.9	213.1	211.6	217.4	210.2	160°	530.0
267.4	224.5	198.8	194.5	188.8	190.2	188.8	195.9	197.3	208.8	208.8	162.5°	539.0
221.6	193.0	178.7	177.3	171.6	173.0	174.5	181.6	187.3	201.6	208.8	165°	549.0
190.2	173.0	163.0	161.6	158.7	160.2	163.0	171.6	177.3	195.9	211.6	167.5°	558.5
167.3	157.3	150.1	150.1	147.3	150.1	153.0	161.6	168.7	190.2	205.9	170°	565.0
150.1	143.0	138.7	140.1	138.7	141.6	144.4	153.0	161.6	181.6	197.3	172.5°	567.5
134.4	130.1	127.3	128.7	128.7	133.0	135.8	144.4	151.6	170.2	190.2	175°	569.0
121.5	118.7	117.3	118.7	120.1	124.4	128.7	134.4	140.1	157.3	180.2	177.5°	574.0
111.5	108.7	108.7	108.7	110.1	114.4	120.1	123.0	128.7	147.3	168.7	180°	576.0
105.8	104.4	104.4	104.4	105.8	110.1	115.8	118.7	124.4	143.0	163.0		
98.7	98.7	100.1	98.7	101.5	103.0	108.7	111.5	118.7	137.3	155.9		
87.2	87.2	88.7	88.7	91.5	91.5	95.8	98.7	107.2	123.0	140.1		
77.2	77.2	80.1	78.6	78.6	75.8	81.5	84.4	91.5	107.2	124.4		
65.8	64.3	67.2	62.9	61.5	58.6	62.9	67.2	78.6	88.7	91.5		
51.5	47.2	48.6	44.3	44.3	41.5	45.8	47.2	54.3	64.3	70.1		
31.5	25.7	28.6	24.3	27.2	24.3	25.7	27.2	32.9	40.0	38.6		
7.1	4.3	5.7	1.4	4.3	0.0	4.3	1.4	4.3	1.4	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

'227729
 ISC-AF-800-LED-E1-T3-7030-ULG

REPORT NUMBER: P227729
 CATALOG NUMBER: ISC-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	559.1	559.1
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	564.8	563.4
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	572.0	572.0
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	573.4	576.3
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	563.4	560.5
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	547.7	544.8
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	546.2	544.8
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	536.2	529.1
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	507.6	494.8
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	467.6	449.0
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	419.0	393.2
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	366.1	340.3
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	324.6	304.6
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	294.6	283.1
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	270.3	263.1
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	254.5	243.1
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	238.8	224.5
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	224.5	210.2
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	210.2	200.2
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	203.1	194.5
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	200.2	191.6
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	203.1	195.9
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	208.8	204.5
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	203.1	195.9
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	190.2	178.7
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	181.6	170.2
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	174.5	165.9
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	167.3	158.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	158.7	150.1
										71°	154.4	144.4
										72.5°	147.3	135.8
										75°	133.0	121.5
										77.5°	110.1	97.2
										80°	84.4	75.8
										82.5°	62.9	55.8
										85°	32.9	25.7
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



REPORT NUMBER: P227729

CATALOG NUMBER: ISC-AF-800-LED-E1-1

0-LED-E1-T3-7030-ULG

tinued):

175°	180°
559.1	559.1
564.8	563.4
573.4	574.8
579.1	577.7
563.4	560.5
547.7	547.7
546.2	546.2
526.2	524.8
491.9	487.6
443.3	439.0
383.2	377.5
330.3	330.3
294.6	294.6
276.0	277.4
258.8	260.3
233.1	233.1
211.6	211.6
201.6	200.2
193.0	191.6
187.3	185.9
181.6	181.6
177.3	177.3
177.3	174.5
178.7	174.5
175.9	173.0
175.9	174.5
178.7	175.9
178.7	173.0
163.0	153.0
154.4	145.9
138.7	133.0
118.7	117.3
92.9	91.5
75.8	71.5
54.3	47.2
21.4	21.4
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	106.0	103.0	102.0
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0

F3-7030-ULG

<u>180°</u>
101.0
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

(END OF REPORT)