

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: P228511

Luminaire Tested: **ISC-AF-600-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-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-SLL-8030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4086.2 lumens
Efficiency: N/A
Efficacy: 81.1 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: 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

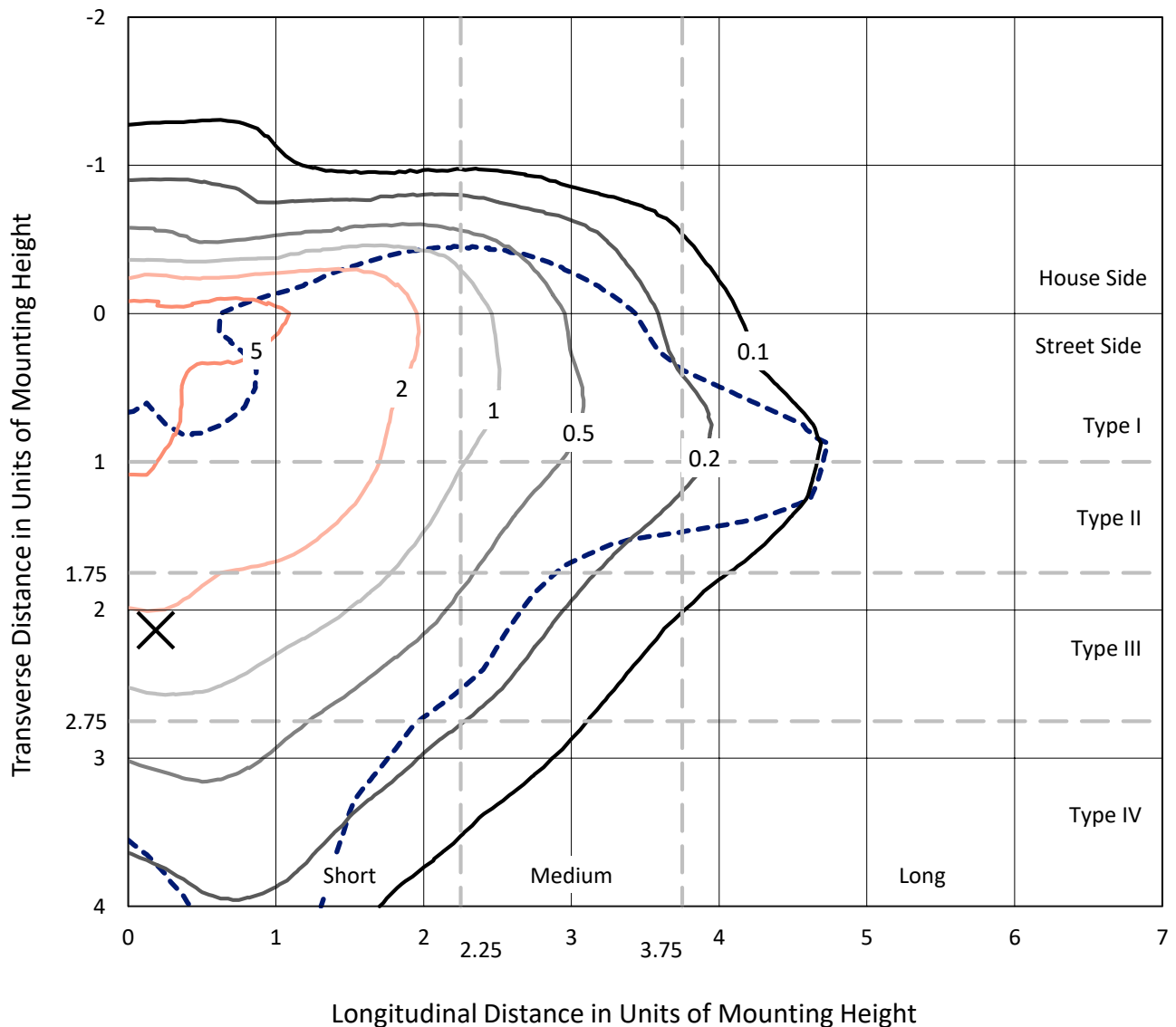


REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

Iso-Footcandle Lines of Horizontal Illumination

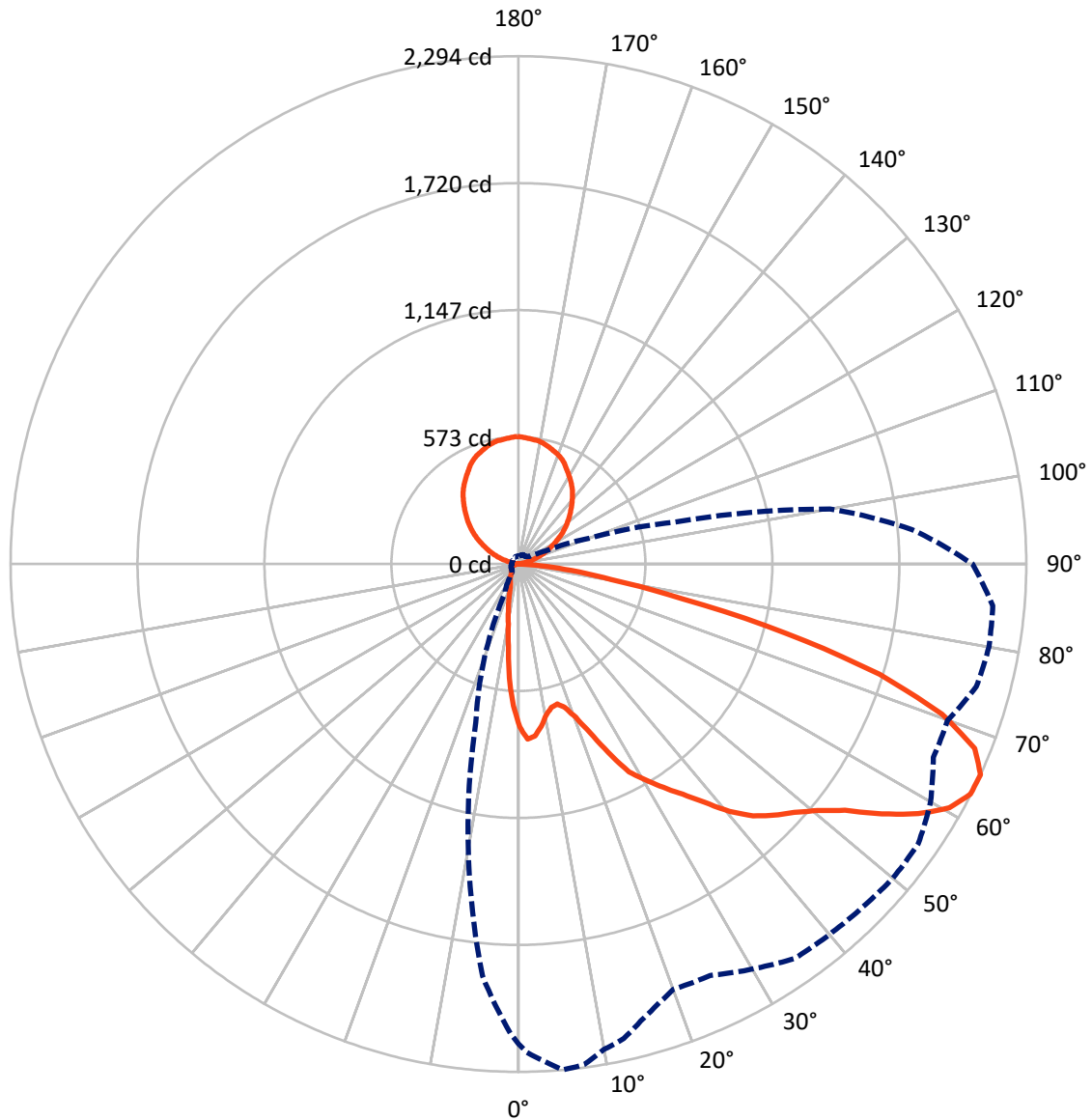
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P228511
CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

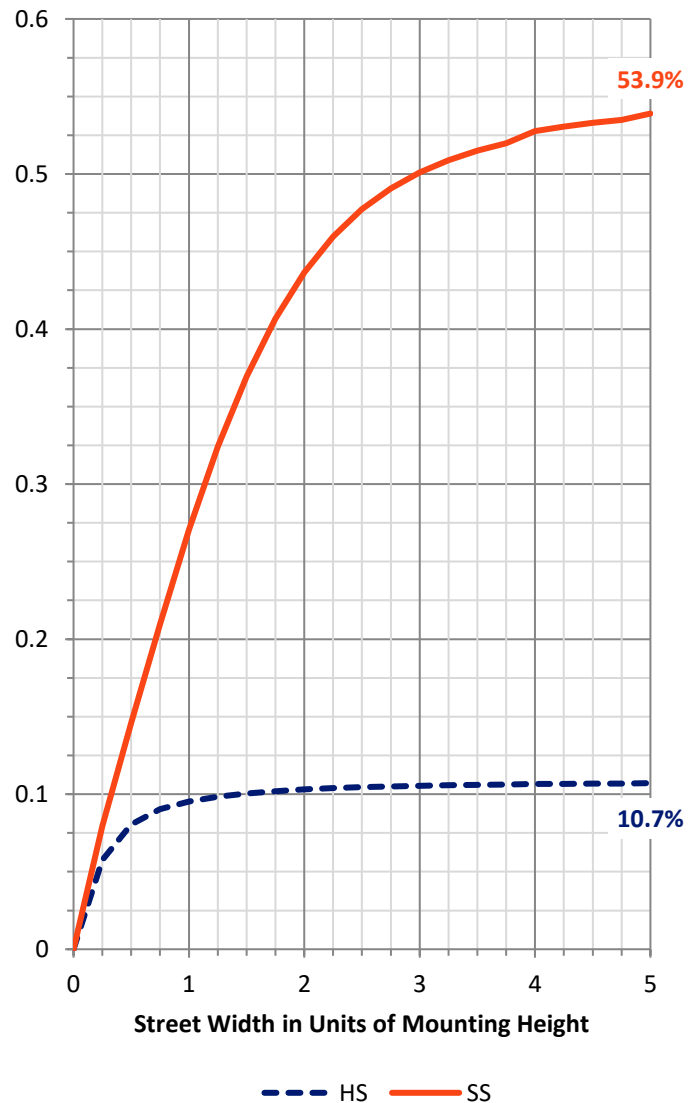
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	442.3	713.1	1155.4
	% Fixture	10.8	17.5	28.3
Street Side	Lumens	2217.7	713.1	2930.8
	% Fixture	54.3	17.5	71.7
Total	Lumens	2660.0	1426.2	4086.2
	% Fixture	65.1	34.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.4
10°-20°	116.5	2.9
20°-30°	169.3	4.1
30°-40°	250.4	6.1
40°-50°	364.9	8.9
50°-60°	546.9	13.4
60°-70°	681.6	16.7
70°-80°	399.2	9.8
80°-90°	74.7	1.8
90°-100°	4.7	0.1
100°-110°	69.0	1.7
110°-120°	153.0	3.7
120°-130°	223.9	5.5
130°-140°	265.6	6.5
140°-150°	269.3	6.6
150°-160°	231.1	5.7
160°-170°	155.1	3.8
170°-180°	54.3	1.3
0°-90°	2660.0	65.1
0°-180°	4086.2	100.0



REPORT NUMBER: P228511

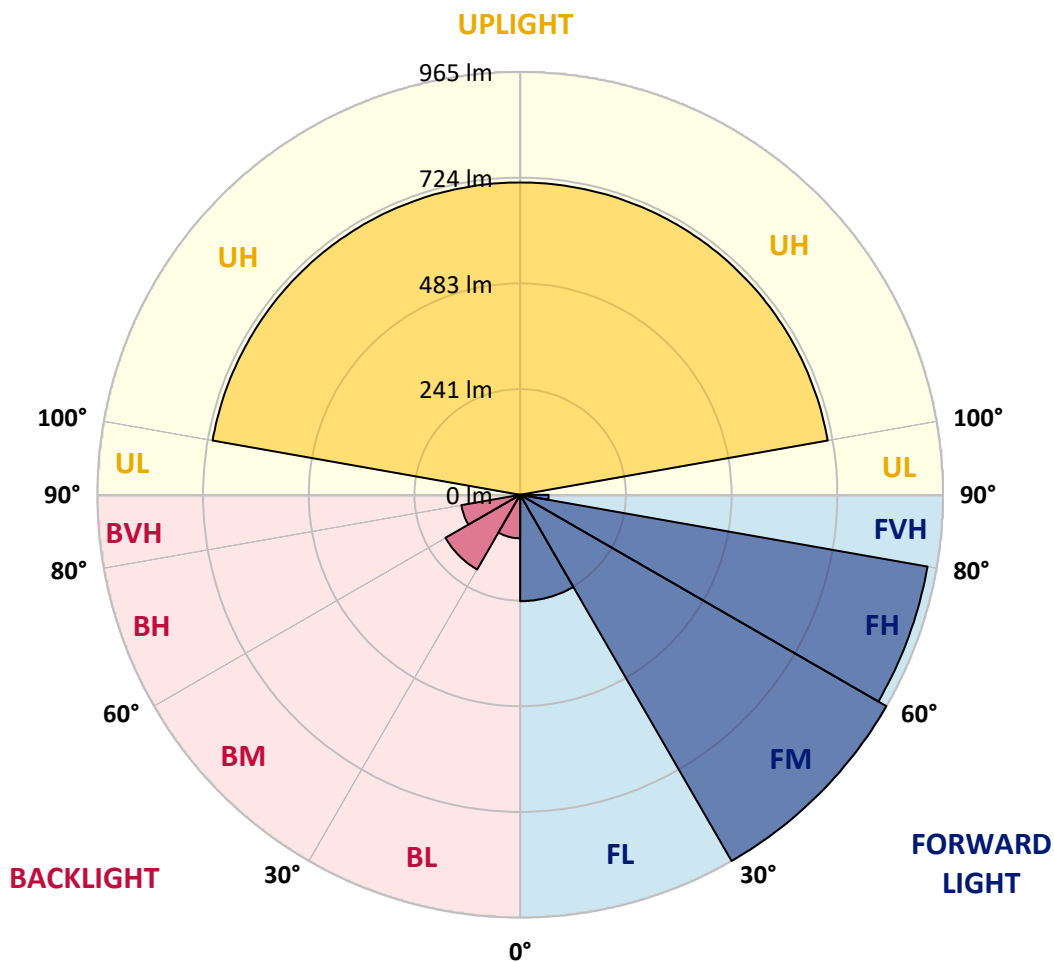
CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.0	5.9			
FM	(30°-60°)	965.4	23.6			
FH	(60°-80°)	944.3	23.1			G1/1800
FVH	(80°-90°)	65.0	1.6			G1/100
BL	(0°-30°)	99.3	2.4	B0/110		
BM	(30°-60°)	196.9	4.8	B0/220		
BH	(60°-80°)	136.5	3.3	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	17.5		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	781.4	779.3	791.9	794.0	802.5	802.5	812.0	820.4	823.5	830.9	849.9
5°	756.1	762.5	780.4	798.3	810.9	823.5	837.2	854.1	867.8	890.9	939.4
7.5°	700.3	709.8	740.3	758.2	778.3	800.4	817.2	837.2	858.3	897.3	983.6
10°	645.6	652.9	691.9	714.0	742.4	765.6	789.8	812.0	835.1	883.6	983.6
12.5°	610.8	620.3	664.5	685.6	718.2	742.4	771.9	798.3	825.6	877.2	974.1
15°	603.4	614.0	656.1	682.4	710.9	734.0	760.3	787.7	815.1	865.7	952.0
17.5°	623.4	636.1	681.4	710.9	733.0	759.3	778.3	804.6	822.5	862.5	903.6
20°	670.8	685.6	739.3	767.7	785.6	802.5	817.2	833.0	840.4	849.9	842.5
22.5°	746.7	764.6	825.6	858.3	870.9	883.6	884.6	886.7	881.5	856.2	799.3
25°	855.1	873.0	942.5	974.1	974.1	974.1	962.5	954.1	929.9	882.5	787.7
27.5°	956.2	979.4	1062.6	1082.6	1076.3	1066.8	1044.7	1023.6	988.9	909.9	786.7
30°	1032.1	1055.2	1132.1	1147.9	1132.1	1108.9	1074.2	1043.6	1002.6	923.6	794.0
32.5°	1101.6	1128.9	1202.7	1204.8	1176.3	1150.0	1111.0	1076.3	1033.1	948.9	816.2
35°	1175.3	1202.7	1277.4	1262.7	1221.6	1185.8	1145.8	1115.2	1072.1	981.5	852.0
37.5°	1277.4	1301.6	1364.8	1330.1	1277.4	1231.1	1187.9	1147.9	1104.7	1025.7	912.0
40°	1376.4	1411.2	1469.1	1413.3	1349.0	1286.9	1239.5	1197.4	1150.0	1085.8	988.9
42.5°	1469.1	1501.7	1555.5	1483.8	1409.1	1346.9	1297.4	1252.2	1206.9	1154.2	1081.5
45°	1539.7	1573.4	1618.6	1542.8	1457.5	1393.3	1339.6	1299.5	1259.5	1223.7	1198.4
47.5°	1608.1	1641.8	1676.6	1594.4	1510.2	1444.9	1381.7	1344.8	1313.2	1294.3	1324.8
50°	1696.6	1719.7	1749.2	1660.8	1571.2	1496.5	1433.3	1404.9	1375.4	1381.7	1483.8
52.5°	1816.6	1836.6	1847.2	1760.8	1660.8	1575.5	1506.0	1467.0	1442.8	1479.6	1652.3
55°	1986.2	2014.6	1991.4	1906.1	1779.8	1682.9	1597.6	1551.2	1536.5	1586.0	1820.8
57.5°	2132.6	2145.2	2128.3	2044.1	1914.6	1806.1	1715.5	1667.1	1650.2	1715.5	1974.6
60°	2196.8	2212.6	2235.8	2163.1	2042.0	1934.6	1856.6	1809.3	1780.8	1856.6	2097.8
62.5°	2207.3	2233.7	2290.5	2253.7	2157.8	2077.8	2007.2	1941.9	1919.8	1977.7	2178.9
65°	2166.3	2206.3	2293.7	2280.0	2226.3	2195.7	2136.8	2086.2	2044.1	2050.4	2174.7
67.5°	2073.6	2119.9	2222.1	2215.8	2222.1	2222.1	2170.5	2128.3	2073.6	1995.7	2014.6
70°	1850.3	1911.4	2029.4	2059.9	2113.6	2113.6	2068.3	2004.1	1940.9	1780.8	1683.9
72.5°	1482.8	1523.9	1705.0	1853.5	1921.9	1894.6	1850.3	1742.9	1603.9	1428.0	1296.4
75°	1003.6	1027.8	1250.0	1521.8	1646.0	1622.8	1550.2	1416.4	1273.2	1077.3	910.9
77.5°	559.2	590.8	757.2	969.9	1137.4	1134.2	1124.7	1039.4	925.7	763.5	677.2
80°	328.6	339.1	426.5	581.3	725.6	690.8	666.6	599.2	541.3	467.6	533.9
82.5°	201.1	190.6	242.2	353.8	428.6	413.9	372.8	347.5	320.1	300.1	354.9
85°	54.8	49.5	99.0	148.5	182.2	196.9	196.9	194.8	174.8	131.6	158.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	2.0	2.0	2.0	2.0	2.2	2.5	3.0	4.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	14.0	22.0
102.5°	28.0	28.0	28.0	29.0	30.0	31.0	32.0	33.5	35.0	38.0	45.0
105°	54.0	54.0	54.0	54.5	55.0	55.5	56.0	57.2	58.5	61.0	66.0
107.5°	78.0	77.8	77.0	77.8	78.5	79.2	80.0	81.0	82.0	84.0	88.0
110°	101.0	101.2	102.0	102.2	102.5	102.8	103.0	103.8	104.5	106.0	110.0



REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	124.0	124.0	124.0	124.5	125.0	125.5	126.0	126.8	127.5	129.0	132.0
115°	146.0	146.2	147.0	147.5	148.0	148.5	149.0	149.5	150.0	151.0	154.0
117.5°	169.0	169.2	170.0	170.5	171.0	171.5	172.0	172.5	173.0	174.0	177.0
120°	193.0	193.4	195.0	195.2	195.5	195.8	196.0	196.5	197.0	198.0	201.0
122.5°	219.0	219.2	220.0	220.2	220.5	220.8	221.0	221.5	222.0	223.0	226.0
125°	244.0	244.4	246.0	246.2	246.5	246.8	247.0	247.2	247.5	248.0	251.0
127.5°	267.0	267.4	269.0	269.2	269.5	269.8	270.0	270.5	271.0	272.0	274.0
130°	290.0	290.4	292.0	292.2	292.5	292.8	293.0	293.2	293.5	294.0	298.0
132.5°	313.0	313.2	314.0	314.8	315.5	316.2	317.0	317.2	317.5	318.0	321.0
135°	336.0	336.2	337.0	337.5	338.0	338.5	339.0	339.5	340.0	341.0	345.0
137.5°	359.0	359.2	360.0	360.8	361.5	362.2	363.0	363.2	363.5	364.0	367.0
140°	382.0	382.2	383.0	383.5	384.0	384.5	385.0	385.2	385.5	386.0	388.0
142.5°	404.0	404.4	406.0	406.5	407.0	407.5	408.0	407.8	407.5	407.0	410.0
145°	425.0	425.2	426.0	426.5	427.0	427.5	428.0	428.0	428.0	428.0	431.0
147.5°	444.0	444.0	444.0	444.8	445.5	446.2	447.0	447.2	447.5	448.0	452.0
150°	461.0	461.2	462.0	462.5	463.0	463.5	464.0	464.2	464.5	465.0	469.0
152.5°	479.0	479.2	480.0	480.8	481.5	482.2	483.0	482.8	482.5	482.0	485.0
155°	499.0	499.2	500.0	500.5	501.0	501.5	502.0	501.8	501.5	501.0	503.0
157.5°	513.0	513.4	515.0	515.5	516.0	516.5	517.0	516.8	516.5	516.0	519.0
160°	525.0	525.4	527.0	527.5	528.0	528.5	529.0	529.0	529.0	529.0	532.0
162.5°	535.0	535.2	536.0	536.8	537.5	538.2	539.0	538.8	538.5	538.0	541.0
165°	546.0	546.2	547.0	547.5	548.0	548.5	549.0	548.8	548.5	548.0	552.0
167.5°	555.0	555.2	556.0	556.8	557.5	558.2	559.0	558.8	558.5	558.0	561.0
170°	562.0	562.2	563.0	563.8	564.5	565.2	566.0	565.8	565.5	565.0	567.0
172.5°	565.0	565.2	566.0	566.8	567.5	568.2	569.0	568.5	568.0	567.0	569.0
175°	567.0	567.4	569.0	569.2	569.5	569.8	570.0	569.8	569.5	569.0	572.0
177.5°	572.0	572.2	573.0	573.5	574.0	574.5	575.0	574.8	574.5	574.0	578.0
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: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	857.2	858.3	855.1	862.5	854.1	849.9	837.2	837.2	826.7	818.3	808.8
5°	957.3	963.6	958.3	959.4	942.5	925.7	900.4	885.7	859.3	830.9	801.4
7.5°	1024.7	1035.2	1031.0	1013.1	986.8	951.0	908.8	868.8	825.6	779.3	736.1
10°	1042.6	1054.2	1044.7	1011.0	967.8	917.3	866.7	813.0	760.3	710.9	664.5
12.5°	1017.3	1025.7	1005.7	968.9	926.7	876.2	823.5	777.2	715.1	662.4	608.7
15°	953.1	947.8	945.7	919.4	889.9	848.8	799.3	751.9	694.0	640.3	583.4
17.5°	883.6	877.2	879.4	868.8	864.6	845.7	808.8	768.8	717.2	651.9	590.8
20°	822.5	816.2	819.3	824.6	840.4	841.4	835.1	808.8	770.9	702.4	627.7
22.5°	769.8	770.9	781.4	796.2	822.5	856.2	882.5	887.8	861.4	781.4	687.7
25°	754.0	748.8	760.3	784.6	828.8	894.1	953.1	982.6	967.8	887.8	773.0
27.5°	748.8	741.4	754.0	785.6	856.2	947.8	1032.1	1076.3	1081.5	999.4	864.6
30°	748.8	745.6	758.2	799.3	874.1	965.7	1059.4	1125.8	1146.8	1078.4	944.6
32.5°	758.2	760.3	782.5	835.1	912.0	1005.7	1102.6	1174.2	1212.1	1160.5	1008.9
35°	779.3	783.5	815.1	876.2	959.4	1054.2	1142.6	1215.3	1276.4	1249.0	1068.9
37.5°	824.6	830.9	869.9	932.0	1007.8	1093.1	1179.5	1257.4	1345.9	1334.3	1132.1
40°	904.6	904.6	943.6	997.3	1059.4	1124.7	1210.0	1301.6	1410.1	1425.9	1210.0
42.5°	1005.7	1001.5	1026.8	1065.8	1108.9	1163.7	1240.6	1342.7	1470.1	1504.9	1269.0
45°	1144.7	1123.7	1137.4	1146.8	1167.9	1201.6	1270.1	1381.7	1518.6	1563.9	1313.2
47.5°	1308.0	1278.5	1266.9	1249.0	1241.6	1254.3	1313.2	1412.2	1564.9	1614.4	1384.8
50°	1488.1	1459.6	1429.1	1380.6	1338.5	1325.9	1361.7	1453.3	1614.4	1677.6	1463.8
52.5°	1675.5	1655.5	1615.5	1539.7	1459.6	1414.3	1431.2	1521.8	1693.4	1775.6	1557.6
55°	1847.2	1853.5	1805.0	1716.6	1601.8	1532.3	1552.3	1642.9	1836.6	1933.5	1714.5
57.5°	2031.5	2014.6	1976.7	1885.1	1759.8	1685.0	1693.4	1802.9	1996.7	2070.4	1870.3
60°	2153.6	2153.6	2112.5	2043.0	1924.0	1854.5	1867.2	1968.3	2125.2	2132.6	1939.8
62.5°	2232.6	2244.2	2211.5	2162.0	2046.2	1988.3	2031.5	2103.1	2188.4	2127.3	1905.1
65°	2194.7	2207.3	2204.2	2149.4	2067.3	2063.1	2141.0	2157.8	2150.5	2050.4	1785.0
67.5°	2023.0	1997.8	1996.7	1968.3	1951.4	2038.8	2137.8	2143.1	2018.8	1899.8	1595.5
70°	1696.6	1653.4	1636.5	1645.0	1721.8	1885.1	2026.2	1986.2	1788.2	1686.0	1358.5
72.5°	1308.0	1256.4	1245.8	1278.5	1397.5	1627.1	1819.8	1764.0	1470.1	1351.1	1052.1
75°	927.8	905.7	906.7	971.0	1099.5	1320.6	1544.9	1539.7	1088.9	932.0	724.5
77.5°	675.0	679.3	698.2	723.5	834.1	1047.8	1258.5	1244.8	775.1	640.3	506.5
80°	557.1	563.4	563.4	549.7	578.2	691.9	855.1	913.1	519.2	430.7	353.8
82.5°	400.2	431.8	449.7	427.6	417.0	456.0	536.0	573.9	323.3	271.7	247.5
85°	190.6	218.0	224.3	219.0	251.7	287.5	306.5	313.8	176.9	126.4	162.2
87.5°	0.0	0.0	1.1	8.4	23.2	40.0	40.0	61.1	9.5	3.2	7.4
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°	9.0	11.0	13.0	10.0	7.0	6.0	5.0	4.5	4.0	4.0	4.0
100°	30.0	31.0	32.0	31.0	30.0	28.5	27.0	26.5	26.0	25.0	26.0
102.5°	50.0	50.5	51.0	50.5	50.0	49.0	48.0	48.5	49.0	48.0	49.0
105°	70.0	70.5	71.0	71.0	71.0	70.0	69.0	70.0	71.0	69.0	71.0
107.5°	91.0	92.0	93.0	92.5	92.0	91.5	91.0	91.5	92.0	91.0	92.0
110°	112.0	113.0	114.0	114.0	114.0	113.5	113.0	113.5	114.0	113.0	114.0



REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	134.0	135.0	136.0	136.0	136.0	135.5	135.0	136.0	137.0	135.0	137.0
115°	156.0	157.0	158.0	158.0	158.0	158.0	158.0	159.0	160.0	159.0	160.0
117.5°	179.0	179.5	180.0	180.5	181.0	180.5	180.0	181.0	182.0	180.0	182.0
120°	202.0	203.0	204.0	204.0	204.0	204.0	204.0	205.0	206.0	204.0	206.0
122.5°	227.0	227.5	228.0	228.0	228.0	228.5	229.0	231.0	233.0	232.0	233.0
125°	252.0	252.5	253.0	253.5	254.0	254.0	254.0	255.5	257.0	256.0	257.0
127.5°	276.0	277.0	278.0	277.5	277.0	277.5	278.0	279.5	281.0	278.0	281.0
130°	299.0	300.0	301.0	301.0	301.0	301.5	302.0	303.5	305.0	303.0	305.0
132.5°	322.0	323.5	325.0	325.0	325.0	325.5	326.0	327.5	329.0	327.0	329.0
135°	345.0	346.5	348.0	348.0	348.0	348.5	349.0	350.0	351.0	350.0	351.0
137.5°	367.0	368.0	369.0	369.0	369.0	369.5	370.0	372.0	374.0	372.0	374.0
140°	389.0	389.5	390.0	390.0	390.0	391.0	392.0	394.0	396.0	394.0	396.0
142.5°	410.0	411.0	412.0	412.0	412.0	412.5	413.0	414.5	416.0	415.0	416.0
145°	432.0	433.0	434.0	433.5	433.0	433.5	434.0	435.5	437.0	435.0	437.0
147.5°	453.0	453.5	454.0	453.0	452.0	452.5	453.0	454.5	456.0	453.0	456.0
150°	470.0	470.5	471.0	470.0	469.0	469.0	469.0	471.0	473.0	470.0	473.0
152.5°	486.0	486.5	487.0	486.5	486.0	486.0	486.0	487.5	489.0	486.0	489.0
155°	503.0	503.5	504.0	503.5	503.0	503.5	504.0	505.5	507.0	505.0	507.0
157.5°	519.0	519.0	519.0	518.0	517.0	517.5	518.0	520.5	523.0	520.0	523.0
160°	532.0	532.0	532.0	531.0	530.0	530.0	530.0	531.5	533.0	531.0	533.0
162.5°	541.0	541.5	542.0	541.0	540.0	539.0	538.0	539.0	540.0	537.0	540.0
165°	552.0	552.5	553.0	551.5	550.0	549.0	548.0	549.0	550.0	548.0	550.0
167.5°	560.0	560.0	560.0	559.0	558.0	558.5	559.0	561.0	563.0	561.0	563.0
170°	566.0	565.5	565.0	564.5	564.0	565.0	566.0	568.5	571.0	569.0	571.0
172.5°	568.0	568.5	569.0	568.0	567.0	567.5	568.0	569.5	571.0	568.0	571.0
175°	572.0	572.5	573.0	571.5	570.0	569.0	568.0	569.5	571.0	568.0	571.0
177.5°	577.0	577.0	577.0	575.5	574.0	574.0	574.0	575.5	577.0	574.0	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: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	796.2	782.5	771.9	759.3	748.8	738.2	730.9	715.1	702.4	674.0	666.6
5°	777.2	747.7	727.7	708.7	684.5	667.7	649.8	627.7	603.4	562.4	549.7
7.5°	702.4	665.6	638.2	610.8	579.2	550.8	524.5	495.0	452.8	408.6	391.8
10°	621.3	582.4	544.5	511.8	473.9	442.3	419.1	398.1	364.4	330.7	308.6
12.5°	555.0	510.8	467.6	434.9	414.9	399.1	382.3	365.4	329.6	291.7	265.4
15°	524.5	472.8	434.9	407.6	389.7	370.7	350.7	331.7	289.6	245.4	213.8
17.5°	528.7	469.7	421.2	384.4	360.2	333.8	310.7	286.4	240.1	187.5	159.0
20°	551.8	472.8	406.5	363.3	328.6	294.9	265.4	234.8	178.0	136.9	116.9
22.5°	581.3	483.4	398.1	342.3	299.1	257.0	219.0	183.2	131.6	107.4	97.9
25°	631.9	507.6	396.0	323.3	270.7	220.1	181.1	143.2	106.4	94.8	89.5
27.5°	695.1	535.0	398.1	309.6	246.4	190.6	147.4	119.0	95.8	89.5	85.3
30°	758.2	563.4	388.6	288.6	218.0	163.2	126.4	108.5	94.8	87.4	80.0
32.5°	814.1	584.5	372.8	266.4	192.7	139.0	107.4	92.7	83.2	74.8	72.7
35°	854.1	594.0	354.9	252.7	175.9	124.3	94.8	83.2	73.7	65.3	61.1
37.5°	892.0	595.0	335.9	240.1	169.6	117.9	87.4	76.9	68.5	61.1	56.9
40°	931.0	590.8	325.4	227.5	160.1	114.8	84.2	71.6	66.3	57.9	53.7
42.5°	959.4	583.4	321.2	220.1	151.6	106.4	82.1	70.6	63.2	56.9	51.6
45°	985.7	576.1	321.2	213.8	145.3	101.1	77.9	71.6	61.1	55.8	49.5
47.5°	1017.3	579.2	322.3	208.5	140.1	95.8	73.7	69.5	62.1	54.8	48.4
50°	1071.0	615.0	327.5	205.4	135.9	91.6	70.6	66.3	68.5	53.7	47.4
52.5°	1163.7	671.9	335.9	203.3	131.6	88.5	66.3	64.2	69.5	53.7	46.3
55°	1284.8	729.8	344.4	198.0	125.3	82.1	64.2	60.0	64.2	53.7	45.3
57.5°	1402.7	773.0	351.7	190.6	114.8	75.8	61.1	56.9	59.0	52.7	43.2
60°	1471.2	806.7	359.1	178.0	102.2	68.5	57.9	53.7	52.7	52.7	42.1
62.5°	1490.2	794.0	354.9	162.2	91.6	63.2	54.8	50.5	47.4	53.7	42.1
65°	1430.1	727.7	339.1	148.5	84.2	61.1	51.6	48.4	45.3	46.3	40.0
67.5°	1245.8	611.9	295.9	135.9	83.2	60.0	49.5	46.3	42.1	41.1	37.9
70°	1016.3	480.2	245.4	126.4	82.1	60.0	47.4	43.2	40.0	36.9	34.8
72.5°	781.4	359.1	206.4	122.2	83.2	59.0	44.2	39.0	35.8	33.7	31.6
75°	549.7	253.8	171.7	109.5	77.9	55.8	41.1	34.8	31.6	29.5	27.4
77.5°	398.1	172.7	127.4	88.5	66.3	48.4	35.8	29.5	26.3	25.3	23.2
80°	253.8	106.4	85.3	65.3	48.4	37.9	27.4	23.2	21.1	19.0	17.9
82.5°	146.4	62.1	51.6	44.2	31.6	25.3	20.0	17.9	13.7	12.6	11.6
85°	89.5	39.0	28.4	23.2	20.0	15.8	11.6	10.5	7.4	6.3	5.3
87.5°	20.0	8.4	7.4	5.3	6.3	5.3	3.2	2.1	0.0	0.0	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°	4.5	5.0	6.0	7.0	10.0	13.0	11.0	9.0	4.0	3.0	2.0
100°	26.5	27.0	28.5	30.0	31.0	32.0	31.0	30.0	22.0	14.0	10.0
102.5°	48.5	48.0	49.0	50.0	50.5	51.0	50.5	50.0	45.0	38.0	32.0
105°	70.0	69.0	70.0	71.0	71.0	71.0	70.5	70.0	66.0	61.0	56.0
107.5°	91.5	91.0	91.5	92.0	92.5	93.0	92.0	91.0	88.0	84.0	80.0
110°	113.5	113.0	113.5	114.0	114.0	114.0	113.0	112.0	110.0	106.0	103.0



REPORT NUMBER: P228511
 CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	136.0	135.0	135.5	136.0	136.0	136.0	135.0	134.0	132.0	129.0	126.0	0°
115°	159.0	158.0	158.0	158.0	158.0	158.0	157.0	156.0	154.0	151.0	149.0	2.5°
117.5°	181.0	180.0	180.5	181.0	180.5	180.0	179.5	179.0	177.0	174.0	172.0	5°
120°	205.0	204.0	204.0	204.0	204.0	204.0	203.0	202.0	201.0	198.0	196.0	7.5°
122.5°	231.0	229.0	228.5	228.0	228.0	228.0	227.5	227.0	226.0	223.0	221.0	10°
125°	255.5	254.0	254.0	254.0	253.5	253.0	252.5	252.0	251.0	248.0	247.0	12.5°
127.5°	279.5	278.0	277.5	277.0	277.5	278.0	277.0	276.0	274.0	272.0	270.0	15°
130°	303.5	302.0	301.5	301.0	301.0	301.0	300.0	299.0	298.0	294.0	293.0	17.5°
132.5°	327.5	326.0	325.5	325.0	325.0	325.0	323.5	322.0	321.0	318.0	317.0	20°
135°	350.0	349.0	348.5	348.0	348.0	348.0	346.5	345.0	345.0	341.0	339.0	22.5°
137.5°	372.0	370.0	369.5	369.0	369.0	369.0	368.0	367.0	367.0	364.0	363.0	25°
140°	394.0	392.0	391.0	390.0	390.0	390.0	389.5	389.0	388.0	386.0	385.0	27.5°
142.5°	414.5	413.0	412.5	412.0	412.0	412.0	411.0	410.0	410.0	407.0	408.0	30°
145°	435.5	434.0	433.5	433.0	433.5	434.0	433.0	432.0	431.0	428.0	428.0	32.5°
147.5°	454.5	453.0	452.5	452.0	453.0	454.0	453.5	453.0	452.0	448.0	447.0	35°
150°	471.0	469.0	469.0	469.0	470.0	471.0	470.5	470.0	469.0	465.0	464.0	37.5°
152.5°	487.5	486.0	486.0	486.0	486.5	487.0	486.5	486.0	485.0	482.0	483.0	40°
155°	505.5	504.0	503.5	503.0	503.5	504.0	503.5	503.0	503.0	501.0	502.0	42.5°
157.5°	520.5	518.0	517.5	517.0	518.0	519.0	519.0	519.0	519.0	516.0	517.0	45°
160°	531.5	530.0	530.0	530.0	531.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°
162.5°	539.0	538.0	539.0	540.0	541.0	542.0	541.5	541.0	541.0	538.0	539.0	50°
165°	549.0	548.0	549.0	550.0	551.5	553.0	552.5	552.0	552.0	548.0	549.0	52.5°
167.5°	561.0	559.0	558.5	558.0	559.0	560.0	560.0	560.0	561.0	558.0	559.0	55°
170°	568.5	566.0	565.0	564.0	564.5	565.0	565.5	566.0	567.0	565.0	566.0	57.5°
172.5°	569.5	568.0	567.5	567.0	568.0	569.0	568.5	568.0	569.0	567.0	569.0	60°
175°	569.5	568.0	569.0	570.0	571.5	573.0	572.5	572.0	572.0	569.0	570.0	62.5°
177.5°	575.5	574.0	574.0	574.0	575.5	577.0	577.0	577.0	578.0	574.0	575.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

NUMBER: P228511
 NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	112.5°	124.0
655.0	639.2	640.3	637.1	628.7	615.0	610.8	603.4	604.5	608.7	604.5	115°	147.0
535.0	516.0	518.1	517.1	508.7	499.2	491.8	482.3	479.2	482.3	477.1	117.5°	170.0
379.1	366.5	370.7	380.2	379.1	373.9	367.5	357.0	354.9	356.0	346.5	120°	195.0
289.6	277.0	273.8	272.8	270.7	267.5	259.1	250.6	247.5	248.5	242.2	122.5°	220.0
242.2	231.7	219.0	207.5	196.9	192.7	182.2	176.9	175.9	175.9	172.7	125°	246.0
191.7	183.2	175.9	164.3	155.9	149.5	142.2	138.0	136.9	138.0	138.0	127.5°	269.0
143.2	139.0	135.9	134.8	130.6	126.4	122.2	120.1	119.0	119.0	120.1	130°	292.0
109.5	108.5	108.5	108.5	113.7	117.9	119.0	115.8	114.8	113.7	112.7	132.5°	314.0
94.8	93.7	94.8	101.1	97.9	94.8	94.8	94.8	94.8	94.8	95.8	135°	337.0
87.4	88.5	89.5	86.4	83.2	81.1	80.0	80.0	79.0	79.0	80.0	137.5°	360.0
83.2	82.1	81.1	79.0	76.9	73.7	72.7	71.6	71.6	71.6	71.6	140°	383.0
77.9	76.9	75.8	73.7	70.6	66.3	65.3	65.3	64.2	65.3	65.3	142.5°	406.0
71.6	70.6	69.5	67.4	64.2	62.1	61.1	59.0	59.0	59.0	60.0	145°	426.0
57.9	56.9	56.9	57.9	57.9	56.9	56.9	54.8	54.8	54.8	54.8	147.5°	444.0
53.7	52.7	52.7	51.6	52.7	53.7	52.7	51.6	51.6	50.5	50.5	150°	462.0
50.5	50.5	49.5	48.4	48.4	50.5	49.5	48.4	47.4	47.4	47.4	152.5°	480.0
48.4	47.4	47.4	46.3	46.3	46.3	45.3	44.2	43.2	43.2	43.2	155°	500.0
46.3	46.3	45.3	44.2	43.2	43.2	41.1	40.0	40.0	40.0	41.1	157.5°	515.0
45.3	44.2	44.2	43.2	42.1	40.0	39.0	37.9	37.9	37.9	37.9	160°	527.0
44.2	43.2	42.1	42.1	40.0	39.0	37.9	36.9	36.9	36.9	36.9	162.5°	536.0
43.2	42.1	41.1	40.0	39.0	37.9	36.9	35.8	35.8	35.8	35.8	165°	547.0
41.1	40.0	40.0	39.0	39.0	37.9	36.9	35.8	35.8	35.8	34.8	167.5°	556.0
40.0	39.0	37.9	37.9	37.9	36.9	35.8	34.8	34.8	34.8	34.8	170°	563.0
39.0	37.9	37.9	36.9	36.9	35.8	35.8	34.8	33.7	33.7	32.6	172.5°	566.0
37.9	36.9	36.9	35.8	36.9	35.8	34.8	33.7	32.6	32.6	31.6	175°	569.0
36.9	35.8	35.8	35.8	34.8	34.8	33.7	31.6	31.6	31.6	30.5	177.5°	573.0
34.8	33.7	33.7	34.8	33.7	32.6	32.6	30.5	30.5	29.5	29.5	180°	576.0
31.6	31.6	31.6	32.6	31.6	30.5	30.5	29.5	28.4	27.4	27.4		
29.5	28.4	29.5	29.5	29.5	28.4	29.5	27.4	26.3	25.3	25.3		
25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	24.2	23.2	22.1		
20.0	21.1	21.1	21.1	21.1	22.1	21.1	21.1	21.1	20.0	19.0		
14.7	14.7	15.8	16.8	15.8	16.8	15.8	16.8	15.8	15.8	15.8		
8.4	8.4	9.5	10.5	10.5	11.6	9.5	10.5	10.5	11.6	10.5		
3.2	3.2	3.2	3.2	4.2	4.2	3.2	4.2	4.2	5.3	5.3		
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	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		
2.0	2.0	2.0	2.0	3.0	4.0	9.0	11.0	12.0	13.0	11.5		
8.0	8.0	8.0	10.0	14.0	22.0	30.0	31.0	31.5	32.0	31.5		
28.0	28.0	28.0	32.0	38.0	45.0	50.0	50.5	50.8	51.0	50.8		
54.0	54.0	54.0	56.0	61.0	66.0	70.0	70.5	70.8	71.0	71.0		
77.0	78.0	77.0	80.0	84.0	88.0	91.0	92.0	92.5	93.0	92.8		
102.0	101.0	102.0	103.0	106.0	110.0	112.0	113.0	113.5	114.0	114.0		

'228511
 ISC-AF-600-LED-E1-SLL-8030-ULG

REPORT NUMBER: P228511
 CATALOG NUMBER: ISC-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	736.1	736.1
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	612.9	612.9
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	481.3	480.2
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	349.6	346.5
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	244.3	235.9
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	176.9	173.8
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	140.1	140.1
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	121.1	121.1
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	111.6	110.6
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	95.8	94.8
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	79.0	79.0
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	71.6	71.6
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	65.3	66.3
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	60.0	60.0
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	53.7	53.7
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	49.5	48.4
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	45.3	45.3
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	42.1	42.1
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	40.0	40.0
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	39.0	39.0
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	36.9	36.9
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	35.8	35.8
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	34.8	35.8
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	33.7	33.7
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	32.6	32.6
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	31.6	31.6
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	30.5	30.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	28.4	28.4
										70°	26.3	26.3
										72.5°	24.2	24.2
										75°	22.1	21.1
										77.5°	19.0	17.9
										80°	15.8	14.7
										82.5°	11.6	10.5
										85°	5.3	5.3
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.0	8.5
										100°	31.0	30.5
										102.5°	50.5	50.2
										105°	71.0	71.0
										107.5°	92.5	92.2
										110°	114.0	114.0

REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-S

0-LED-E1-SLL-8030-ULG

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	112.5°	136.0	136.0	136.0
600.3	602.4	604.5	608.7	606.6	605.5	604.5	610.8	614.0	115°	158.0	158.0	158.0
464.4	463.4	466.5	467.6	464.4	459.2	456.0	457.1	460.2	117.5°	180.5	180.8	181.0
331.7	329.6	328.6	329.6	326.5	321.2	317.0	318.0	321.2	120°	204.0	204.0	204.0
233.8	234.8	237.0	239.1	239.1	239.1	240.1	246.4	253.8	122.5°	228.0	228.0	228.0
175.9	178.0	182.2	185.3	188.5	189.6	190.6	199.0	205.4	125°	253.5	253.8	254.0
142.2	143.2	145.3	147.4	149.5	149.5	150.6	153.8	159.0	127.5°	277.5	277.2	277.0
121.1	121.1	121.1	120.1	119.0	116.9	115.8	114.8	115.8	130°	301.0	301.0	301.0
108.5	107.4	105.3	103.2	102.2	99.0	97.9	94.8	93.7	132.5°	325.0	325.0	325.0
94.8	94.8	94.8	93.7	92.7	91.6	89.5	86.4	84.2	135°	348.0	348.0	348.0
79.0	80.0	80.0	81.1	83.2	83.2	83.2	83.2	80.0	137.5°	369.0	369.0	369.0
71.6	71.6	72.7	72.7	73.7	73.7	73.7	74.8	75.8	140°	390.0	390.0	390.0
66.3	67.4	67.4	68.5	68.5	69.5	69.5	70.6	70.6	142.5°	412.0	412.0	412.0
61.1	62.1	62.1	62.1	64.2	64.2	63.2	64.2	64.2	145°	433.5	433.2	433.0
53.7	53.7	53.7	53.7	53.7	53.7	51.6	50.5	51.6	147.5°	453.0	452.5	452.0
48.4	47.4	46.3	46.3	46.3	47.4	46.3	47.4	47.4	150°	470.0	469.5	469.0
44.2	44.2	44.2	44.2	44.2	44.2	44.2	45.3	46.3	152.5°	486.5	486.2	486.0
42.1	42.1	42.1	42.1	42.1	42.1	42.1	43.2	43.2	155°	503.5	503.2	503.0
40.0	40.0	41.1	41.1	41.1	41.1	41.1	41.1	42.1	157.5°	518.0	517.5	517.0
39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.0	41.1	160°	531.0	530.5	530.0
37.9	37.9	37.9	37.9	37.9	37.9	37.9	39.0	40.0	162.5°	541.0	540.5	540.0
35.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	37.9	165°	551.5	550.8	550.0
35.8	35.8	35.8	35.8	34.8	34.8	34.8	34.8	35.8	167.5°	559.0	558.5	558.0
34.8	34.8	34.8	33.7	33.7	32.6	32.6	32.6	34.8	170°	564.5	564.2	564.0
32.6	32.6	32.6	31.6	31.6	31.6	31.6	32.6	32.6	172.5°	568.0	567.5	567.0
30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	175°	571.5	570.8	570.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	177.5°	575.5	574.8	574.0
28.4	27.4	27.4	27.4	27.4	28.4	27.4	27.4	27.4	180°	576.0	576.0	576.0
26.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3				
24.2	24.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2				
21.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0				
17.9	17.9	16.8	16.8	16.8	16.8	16.8	16.8	16.8				
14.7	13.7	13.7	13.7	13.7	13.7	13.7	12.6	12.6				
10.5	10.5	10.5	9.5	9.5	9.5	9.5	8.4	7.4				
4.2	5.3	5.3	6.3	5.3	5.3	5.3	4.2	2.1				
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	0.0	0.0				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
7.0	6.5	6.0	5.5	5.0	4.8	4.5	4.0	4.0				
30.0	29.2	28.5	27.8	27.0	26.8	26.5	26.0	25.0				
50.0	49.5	49.0	48.5	48.0	48.2	48.5	49.0	48.0				
71.0	70.5	70.0	69.5	69.0	69.5	70.0	71.0	69.0				
92.0	91.8	91.5	91.2	91.0	91.2	91.5	92.0	91.0				
114.0	113.8	113.5	113.2	113.0	113.2	113.5	114.0	113.0				



REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-L

SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	736.1	736.1	736.1	736.1
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	611.9	622.4	623.4	617.1
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	456.0	469.7	468.6	460.2
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	322.3	333.8	332.8	331.7
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	261.2	271.7	274.9	282.2
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	211.7	224.3	227.5	235.9
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	163.2	173.8	176.9	183.2
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	120.1	126.4	128.5	132.7
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	93.7	95.8	96.9	97.9
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	84.2	85.3	85.3	86.4
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	77.9	79.0	79.0	80.0
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	74.8	74.8	74.8	74.8
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	71.6	71.6	71.6	72.7
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	66.3	64.2	66.3	65.3
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	51.6	51.6	52.7	53.7
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	48.4	49.5	49.5	50.5
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	46.3	47.4	48.4	49.5
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	44.2	46.3	46.3	47.4
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	43.2	44.2	45.3	46.3
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	42.1	43.2	44.2	45.3
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	40.0	42.1	43.2	44.2
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	39.0	41.1	41.1	43.2
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	36.9	39.0	39.0	41.1
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	34.8	36.9	37.9	39.0
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	33.7	34.8	35.8	36.9
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	31.6	33.7	34.8	35.8
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	30.5	32.6	32.6	34.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	28.4	30.5	30.5	31.6
								70°	26.3	27.4	28.4	29.5
								72.5°	24.2	25.3	25.3	26.3
								75°	20.0	21.1	22.1	23.2
								77.5°	16.8	16.8	19.0	19.0
								80°	12.6	12.6	13.7	14.7
								82.5°	7.4	7.4	8.4	8.4
								85°	2.1	2.1	2.1	2.1
								87.5°	0.0	0.0	0.0	0.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	4.0	4.5	4.8	5.0
								100°	26.0	26.5	26.8	27.0
								102.5°	49.0	48.5	48.2	48.0
								105°	71.0	70.0	69.5	69.0
								107.5°	92.0	91.5	91.2	91.0
								110°	114.0	113.5	113.2	113.0



REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

JLG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
736.1	736.1	736.1	736.1	736.1	736.1	736.1	112.5°	137.0	136.0	135.5	135.0	135.2
629.8	631.9	628.7	628.7	630.8	639.2	639.2	115°	160.0	159.0	158.5	158.0	158.0
477.1	482.3	479.2	480.2	484.4	493.9	499.2	117.5°	182.0	181.0	180.5	180.0	180.2
342.3	346.5	348.6	351.7	364.4	365.4	371.7	120°	206.0	205.0	204.5	204.0	204.0
285.4	291.7	295.9	301.2	311.7	317.0	324.4	122.5°	233.0	231.0	230.0	229.0	228.8
240.1	247.5	251.7	262.2	268.5	274.9	284.3	125°	257.0	255.5	254.8	254.0	254.0
187.5	195.9	200.1	206.4	219.0	225.4	238.0	127.5°	281.0	279.5	278.8	278.0	277.8
135.9	139.0	147.4	158.0	165.3	175.9	182.2	130°	305.0	303.5	302.8	302.0	301.8
100.0	102.2	106.4	113.7	117.9	126.4	132.7	132.5°	329.0	327.5	326.8	326.0	325.8
86.4	87.4	89.5	91.6	93.7	96.9	100.0	135°	351.0	350.0	349.5	349.0	348.8
80.0	81.1	82.1	83.2	85.3	86.4	87.4	137.5°	374.0	372.0	371.0	370.0	369.8
75.8	75.8	76.9	79.0	79.0	81.1	82.1	140°	396.0	394.0	393.0	392.0	391.5
73.7	75.8	77.9	81.1	82.1	84.2	85.3	142.5°	416.0	414.5	413.8	413.0	412.8
63.2	63.2	64.2	66.3	66.3	67.4	68.5	145°	437.0	435.5	434.8	434.0	433.8
53.7	54.8	55.8	56.9	57.9	60.0	61.1	147.5°	456.0	454.5	453.8	453.0	452.8
51.6	51.6	52.7	54.8	55.8	56.9	57.9	150°	473.0	471.0	470.0	469.0	469.0
49.5	50.5	51.6	52.7	53.7	55.8	56.9	152.5°	489.0	487.5	486.8	486.0	486.0
48.4	49.5	50.5	51.6	53.7	54.8	55.8	155°	507.0	505.5	504.8	504.0	503.8
47.4	48.4	49.5	51.6	52.7	54.8	55.8	157.5°	523.0	520.5	519.2	518.0	517.8
46.3	47.4	48.4	50.5	52.7	54.8	56.9	160°	533.0	531.5	530.8	530.0	530.0
45.3	46.3	48.4	50.5	52.7	55.8	61.1	162.5°	540.0	539.0	538.5	538.0	538.5
44.2	46.3	48.4	50.5	53.7	57.9	63.2	165°	550.0	549.0	548.5	548.0	548.5
43.2	45.3	46.3	49.5	52.7	56.9	57.9	167.5°	563.0	561.0	560.0	559.0	558.8
41.1	43.2	44.2	47.4	51.6	52.7	51.6	170°	571.0	568.5	567.2	566.0	565.5
39.0	40.0	43.2	49.5	53.7	49.5	44.2	172.5°	571.0	569.5	568.8	568.0	567.8
37.9	39.0	41.1	45.3	46.3	41.1	40.0	175°	571.0	569.5	568.8	568.0	568.5
35.8	35.8	36.9	36.9	36.9	36.9	36.9	177.5°	577.0	575.5	574.8	574.0	574.0
32.6	32.6	33.7	33.7	33.7	33.7	33.7	180°	576.0	576.0	576.0	576.0	576.0
29.5	29.5	30.5	30.5	30.5	31.6	31.6						
26.3	27.4	27.4	28.4	28.4	28.4	29.5						
23.2	24.2	24.2	24.2	24.2	25.3	25.3						
20.0	20.0	21.1	21.1	21.1	21.1	21.1						
15.8	15.8	15.8	15.8	15.8	15.8	15.8						
9.5	9.5	10.5	9.5	9.5	8.4	8.4						
2.1	2.1	2.1	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						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.5	6.0	6.5	7.0	8.5	10.0	11.5						
27.8	28.5	29.2	30.0	30.5	31.0	31.5						
48.5	49.0	49.5	50.0	50.2	50.5	50.8						
69.5	70.0	70.5	71.0	71.0	71.0	71.0						
91.2	91.5	91.8	92.0	92.2	92.5	92.8						
113.2	113.5	113.8	114.0	114.0	114.0	114.0						



REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	736.1	736.1	736.1	736.1	736.1	736.1
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	655.0	655.0	657.1	665.6	667.7	672.9
180.5	180.8	181.0	180.8	180.5	180.2	5°	518.1	522.3	528.7	539.2	545.5	557.1
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	386.5	392.8	398.1	409.7	419.1	430.7
228.5	228.2	228.0	228.0	228.0	228.0	10°	334.9	340.2	347.5	354.9	364.4	369.6
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	298.0	305.4	312.8	323.3	332.8	342.3
277.5	277.2	277.0	277.2	277.5	277.8	15°	252.7	261.2	269.6	281.2	294.9	304.4
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	195.9	205.4	216.9	232.7	247.5	259.1
325.5	325.2	325.0	325.0	325.0	325.0	20°	144.3	152.7	163.2	176.9	187.5	207.5
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	106.4	111.6	120.1	130.6	142.2	160.1
369.5	369.2	369.0	369.0	369.0	369.0	25°	89.5	91.6	94.8	101.1	108.5	121.1
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	83.2	84.2	86.4	89.5	93.7	100.0
412.5	412.2	412.0	412.0	412.0	412.0	30°	87.4	87.4	87.4	88.5	90.6	93.7
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	70.6	71.6	71.6	73.7	74.8	79.0
452.5	452.2	452.0	452.5	453.0	453.5	35°	63.2	64.2	65.3	66.3	68.5	69.5
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	60.0	61.1	62.1	62.1	63.2	65.3
486.0	486.0	486.0	486.2	486.5	486.8	40°	59.0	59.0	59.0	59.0	61.1	63.2
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	56.9	56.9	56.9	57.9	61.1	65.3
517.5	517.2	517.0	517.5	518.0	518.5	45°	56.9	56.9	57.9	62.1	63.2	63.2
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	59.0	61.1	62.1	61.1	60.0	60.0
539.0	539.5	540.0	540.5	541.0	541.5	50°	64.2	63.2	59.0	57.9	57.9	55.8
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	63.2	59.0	57.9	55.8	53.7	52.7
558.5	558.2	558.0	558.5	559.0	559.5	55°	56.9	55.8	52.7	50.5	49.5	50.5
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	49.5	48.4	46.3	46.3	47.4	48.4
567.5	567.2	567.0	567.5	568.0	568.5	60°	43.2	43.2	43.2	44.2	45.3	46.3
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	39.0	40.0	40.0	42.1	43.2	44.2
574.0	574.0	574.0	574.8	575.5	576.2	65°	36.9	37.9	39.0	39.0	40.0	41.1
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	34.8	34.8	35.8	36.9	37.9	39.0
						70°	31.6	32.6	33.7	34.8	34.8	35.8
						72.5°	29.5	29.5	30.5	31.6	31.6	33.7
						75°	25.3	26.3	26.3	26.3	27.4	29.5
						77.5°	22.1	21.1	22.1	22.1	23.2	24.2
						80°	15.8	14.7	14.7	15.8	15.8	15.8
						82.5°	8.4	7.4	8.4	7.4	7.4	8.4
						85°	0.0	0.0	0.0	0.0	0.0	0.0
						87.5°	0.0	0.0	0.0	0.0	0.0	0.0
						90°	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
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	12.0	11.0	10.0	9.0	7.8
						100°	32.0	31.5	31.0	30.5	30.0	28.0
						102.5°	51.0	50.8	50.5	50.2	50.0	48.8
						105°	71.0	70.8	70.5	70.2	70.0	69.0
						107.5°	93.0	92.5	92.0	91.5	91.0	90.2
						110°	114.0	113.5	113.0	112.5	112.0	111.5



REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
736.1	736.1	736.1	736.1	736.1	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
671.9	681.4	685.6	710.9	737.2	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
555.0	573.9	577.1	623.4	668.7	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
433.9	456.0	462.3	523.4	586.6	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
378.1	388.6	396.0	441.3	513.9	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
350.7	361.2	370.7	407.6	464.4	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
313.8	325.4	337.0	382.3	448.6	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
268.5	284.3	299.1	353.8	441.3	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
218.0	237.0	254.9	323.3	430.7	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
171.7	188.5	208.5	294.9	430.7	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
132.7	149.5	169.6	269.6	442.3	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
108.5	122.2	142.2	249.6	459.2	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
97.9	106.4	119.0	220.1	470.7	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
83.2	89.5	101.1	202.2	478.1	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
73.7	81.1	92.7	190.6	477.1	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
68.5	75.8	89.5	186.4	477.1	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
68.5	75.8	87.4	182.2	480.2	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
67.4	71.6	81.1	180.1	485.5	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
64.2	67.4	76.9	180.1	496.0	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
60.0	64.2	73.7	183.2	516.0	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
56.9	61.1	72.7	183.2	557.1	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
53.7	60.0	71.6	181.1	616.1	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
52.7	57.9	69.5	179.0	688.7	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
51.6	55.8	64.2	173.8	746.7	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
49.5	52.7	59.0	164.3	785.6	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
46.3	49.5	53.7	153.8	794.0	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
44.2	47.4	53.7	145.3	742.4	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
41.1	46.3	54.8	138.0	629.8	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
39.0	46.3	55.8	134.8	500.2								
36.9	45.3	56.9	129.5	377.0								
33.7	41.1	49.5	107.4	254.9								
27.4	31.6	36.9	68.5	134.8								
17.9	19.0	21.1	42.1	74.8								
8.4	10.5	10.5	20.0	33.7								
0.0	0.0	0.0	2.1	7.4								
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								
1.0	1.0	1.0	1.0	1.0								
6.5	5.2	4.0	3.0	2.0								
26.0	24.0	22.0	14.0	10.0								
47.5	46.2	45.0	38.0	32.0								
68.0	67.0	66.0	61.0	56.0								
89.5	88.8	88.0	84.0	80.0								
111.0	110.5	110.0	106.0	103.0								

REPORT NUMBER: P228511
 CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	736.1	736.1	736.1
154.5	154.0	151.0	149.0	2.5°	762.5	775.1	781.4
177.5	177.0	174.0	172.0	5°	721.4	747.7	756.1
201.2	201.0	198.0	196.0	7.5°	659.2	688.7	700.3
226.2	226.0	223.0	221.0	10°	597.1	634.0	645.6
251.2	251.0	248.0	247.0	12.5°	560.3	604.5	610.8
274.5	274.0	272.0	270.0	15°	545.5	590.8	603.4
298.2	298.0	294.0	293.0	17.5°	560.3	610.8	623.4
321.2	321.0	318.0	317.0	20°	588.7	650.8	670.8
345.0	345.0	341.0	339.0	22.5°	637.1	721.4	746.7
367.0	367.0	364.0	363.0	25°	716.1	833.0	855.1
388.2	388.0	386.0	385.0	27.5°	800.4	921.5	956.2
410.0	410.0	407.0	408.0	30°	874.1	1003.6	1032.1
431.2	431.0	428.0	428.0	32.5°	926.7	1068.9	1101.6
452.2	452.0	448.0	447.0	35°	988.9	1143.7	1175.3
469.2	469.0	465.0	464.0	37.5°	1060.5	1234.3	1277.4
485.2	485.0	482.0	483.0	40°	1139.5	1328.0	1376.4
503.0	503.0	501.0	502.0	42.5°	1211.1	1415.4	1469.1
519.0	519.0	516.0	517.0	45°	1266.9	1497.5	1539.7
532.0	532.0	529.0	529.0	47.5°	1331.1	1560.7	1608.1
541.0	541.0	538.0	539.0	50°	1419.6	1640.8	1696.6
552.0	552.0	548.0	549.0	52.5°	1549.1	1776.6	1816.6
560.8	561.0	558.0	559.0	55°	1706.0	1940.9	1986.2
566.8	567.0	565.0	566.0	57.5°	1850.3	2093.6	2132.6
568.8	569.0	567.0	569.0	60°	1943.0	2164.2	2196.8
572.0	572.0	569.0	570.0	62.5°	1944.0	2166.3	2207.3
577.8	578.0	574.0	575.0	65°	1867.2	2119.9	2166.3
576.0	576.0	576.0	576.0	67.5°	1672.3	2002.0	2073.6
				70°	1412.2	1770.3	1850.3
				72.5°	1101.6	1391.2	1482.8
				75°	746.7	923.6	1003.6
				77.5°	475.0	532.9	559.2
				80°	280.1	314.9	328.6
				82.5°	173.8	187.5	201.1
				85°	70.6	50.5	54.8
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

REPORT NUMBER: P228511

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)