

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: P228529

Luminaire Tested: **ISC-AF-1200-LED-E1-SLL-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228529
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-1200-LED-E1-SLL-7030-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, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6284.2 lumens
Efficiency: N/A
Efficacy: 76.0 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: B1 - U5 - G2

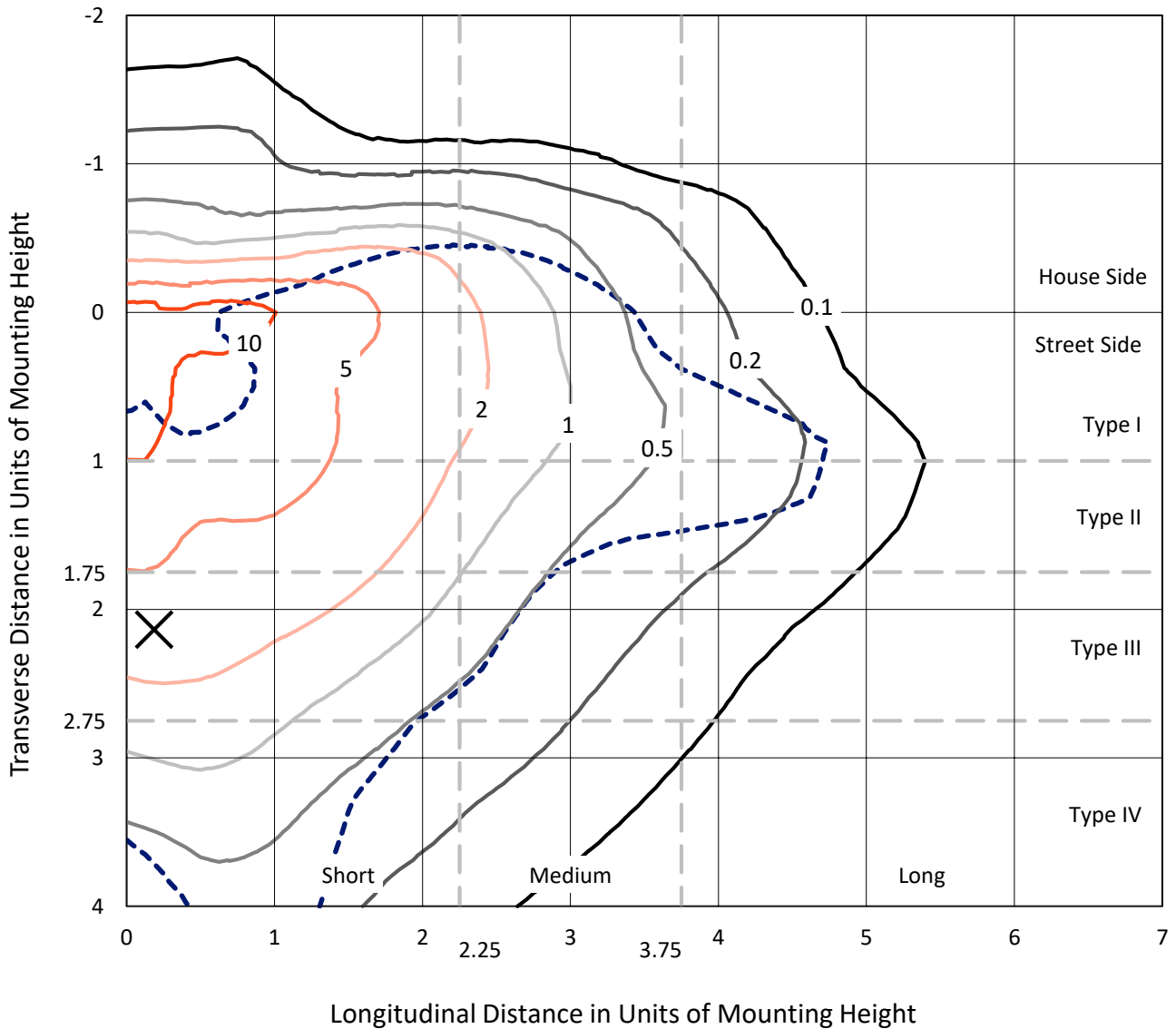
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

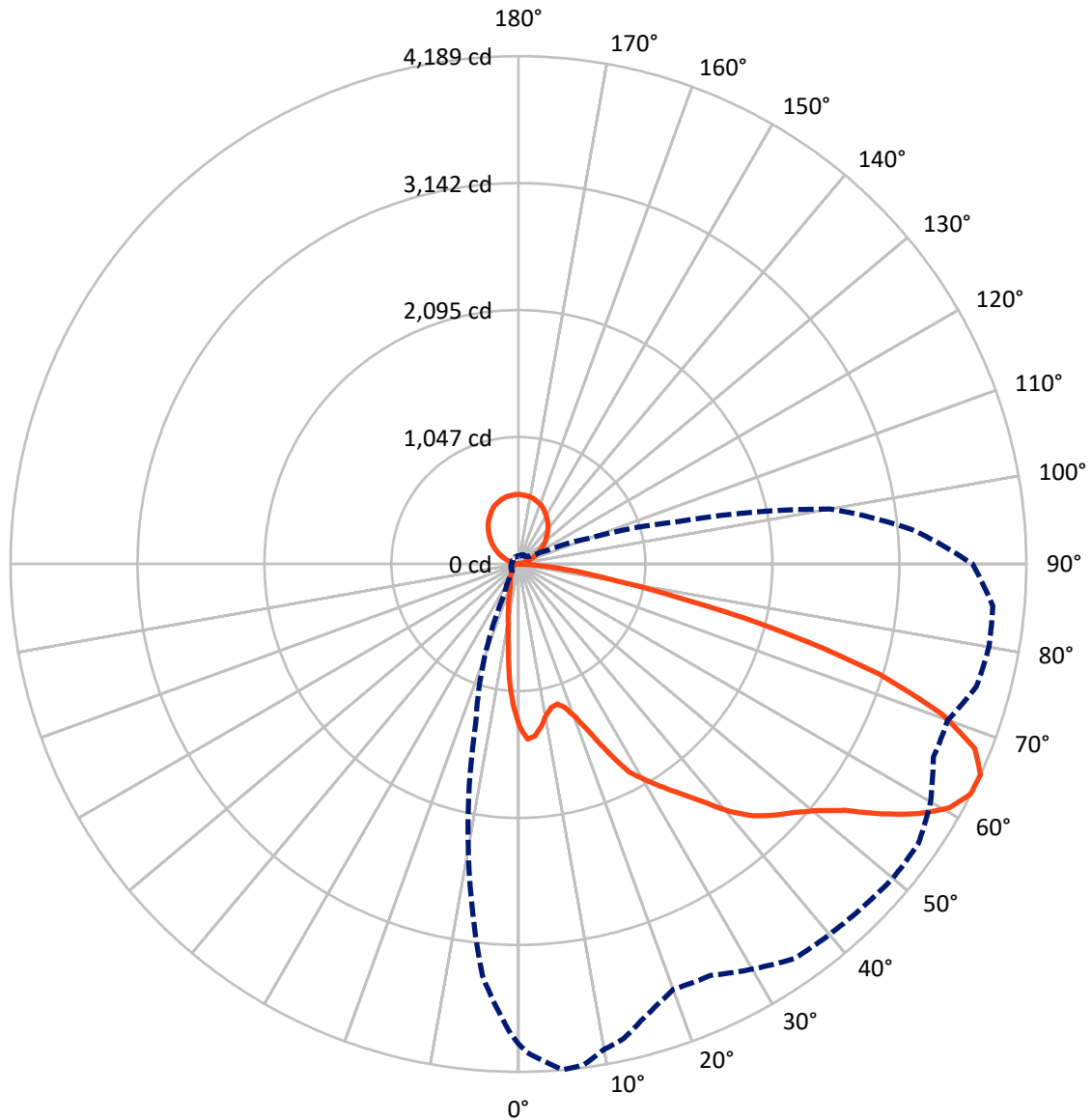
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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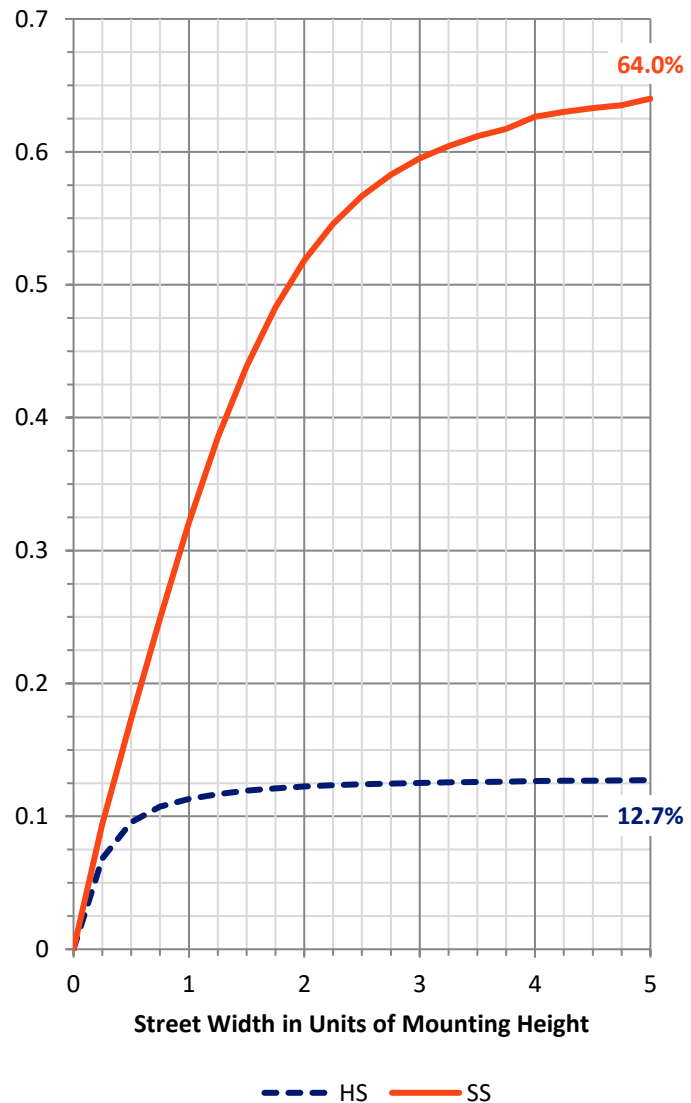
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.8	713.1	1520.9
	% Fixture	12.9	11.3	24.2
Street Side	Lumens	4050.2	713.1	4763.3
	% Fixture	64.5	11.3	75.8
Total	Lumens	4858.0	1426.2	6284.2
	% Fixture	77.3	22.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.6
10°-20°	212.7	3.4
20°-30°	309.2	4.9
30°-40°	457.3	7.3
40°-50°	666.4	10.6
50°-60°	998.9	15.9
60°-70°	1244.8	19.8
70°-80°	729.2	11.6
80°-90°	136.3	2.2
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.4
120°-130°	223.9	3.6
130°-140°	265.6	4.2
140°-150°	269.3	4.3
150°-160°	231.1	3.7
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4858.0	77.3
0°-180°	6284.2	100.0



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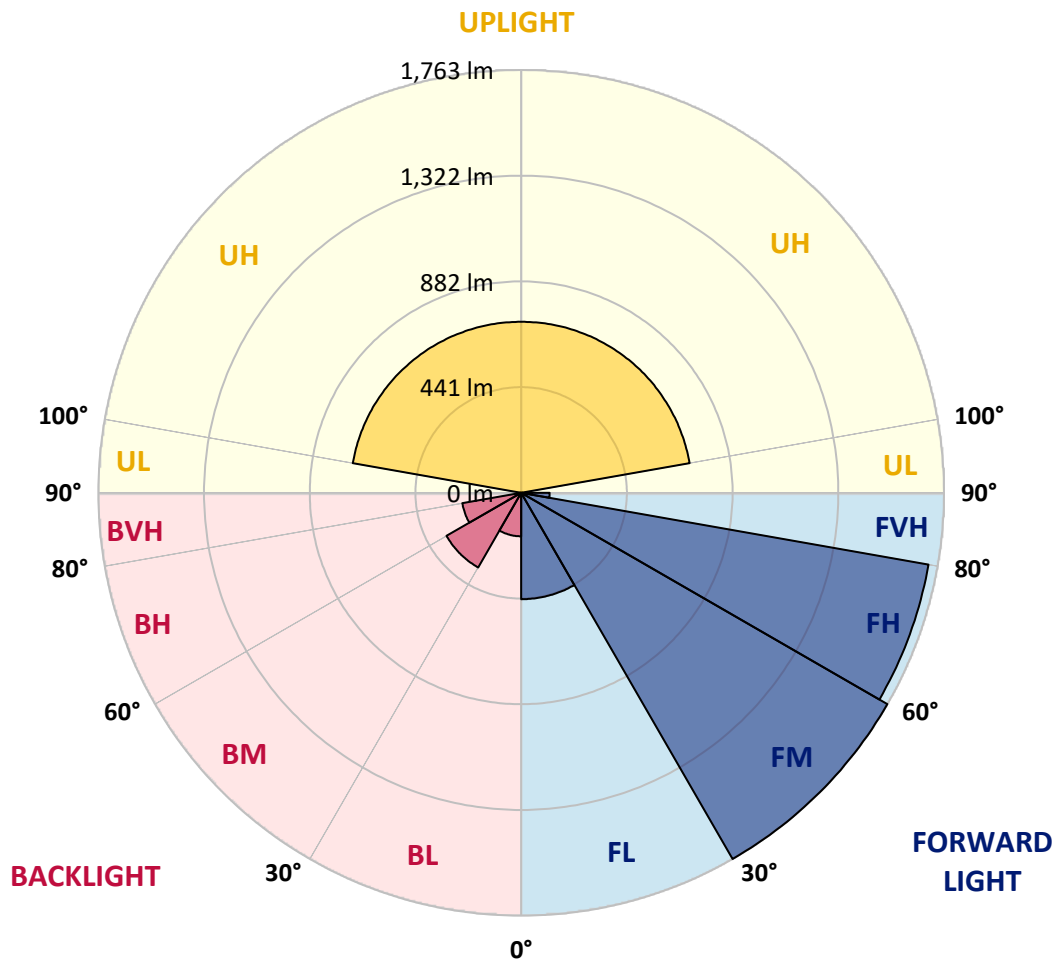
CATALOG NUMBER: ISC-AF-1200-LED-E1-SLL-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.8	7.1			
FM (30°-60°)	1763.1	28.1			
FH (60°-80°)	1724.6	27.4			G1/1800
FVH (80°-90°)	118.8	1.9			G2/225
BL (0°-30°)	181.4	2.9	B1/500		
BM (30°-60°)	359.5	5.7	B1/1000		
BH (60°-80°)	249.3	4.0	B1/500		G1/500
BVH (80°-90°)	17.6	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	11.3		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1427.1	1423.3	1446.3	1450.2	1465.6	1465.6	1482.9	1498.3	1504.0	1517.5	1552.1
5°	1380.9	1392.5	1425.2	1457.9	1481.0	1504.0	1529.0	1559.8	1584.8	1627.1	1715.6
7.5°	1279.0	1296.3	1352.1	1384.8	1421.3	1461.7	1492.5	1529.0	1567.5	1638.7	1796.4
10°	1179.0	1192.5	1263.6	1304.0	1355.9	1398.3	1442.5	1482.9	1525.2	1613.7	1796.4
12.5°	1115.5	1132.8	1213.6	1252.1	1311.7	1355.9	1409.8	1457.9	1507.9	1602.1	1779.1
15°	1102.1	1121.3	1198.2	1246.3	1298.2	1340.6	1388.6	1438.6	1488.6	1581.0	1738.7
17.5°	1138.6	1161.7	1244.4	1298.2	1338.6	1386.7	1421.3	1469.4	1502.1	1575.2	1650.2
20°	1225.2	1252.1	1350.2	1402.1	1434.8	1465.6	1492.5	1521.3	1534.8	1552.1	1538.7
22.5°	1363.6	1396.3	1507.9	1567.5	1590.6	1613.7	1615.6	1619.4	1609.8	1563.7	1459.8
25°	1561.7	1594.4	1721.4	1779.1	1779.1	1779.1	1757.9	1742.5	1698.3	1611.7	1438.6
27.5°	1746.4	1788.7	1940.6	1977.2	1965.6	1948.3	1907.9	1869.5	1806.0	1661.7	1436.7
30°	1884.9	1927.2	2067.6	2096.4	2067.6	2025.3	1961.8	1906.0	1831.0	1686.8	1450.2
32.5°	2011.8	2061.8	2196.4	2200.3	2148.3	2100.3	2029.1	1965.6	1886.8	1732.9	1490.6
35°	2146.4	2196.4	2333.0	2306.1	2231.1	2165.7	2092.6	2036.8	1957.9	1792.5	1556.0
37.5°	2333.0	2377.2	2492.6	2429.2	2333.0	2248.4	2169.5	2096.4	2017.6	1873.3	1665.6
40°	2513.8	2577.2	2683.0	2581.1	2463.8	2350.3	2263.7	2186.8	2100.3	1982.9	1806.0
42.5°	2683.0	2742.7	2840.7	2710.0	2573.4	2459.9	2369.5	2286.8	2204.1	2108.0	1975.2
45°	2811.9	2873.4	2956.1	2817.7	2661.9	2544.6	2446.5	2373.4	2300.3	2234.9	2188.7
47.5°	2936.9	2998.5	3061.9	2911.9	2758.0	2638.8	2523.4	2456.1	2398.4	2363.8	2419.5
50°	3098.5	3140.8	3194.6	3033.1	2869.6	2733.0	2617.6	2565.7	2511.9	2523.4	2710.0
52.5°	3317.7	3354.3	3373.5	3215.8	3033.1	2877.3	2750.3	2679.2	2634.9	2702.3	3017.7
55°	3627.4	3679.3	3637.0	3481.2	3250.4	3073.5	2917.7	2833.1	2806.1	2896.5	3325.4
57.5°	3894.7	3917.8	3887.0	3733.2	3496.6	3298.5	3133.1	3044.6	3013.8	3133.1	3606.2
60°	4012.0	4040.9	4083.2	3950.5	3729.3	3533.1	3390.8	3304.3	3252.3	3390.8	3831.3
62.5°	4031.3	4079.4	4183.2	4115.9	3940.9	3794.7	3665.8	3546.6	3506.2	3612.0	3979.3
65°	3956.3	4029.4	4189.0	4164.0	4065.9	4010.1	3902.4	3810.1	3733.2	3744.7	3971.7
67.5°	3787.0	3871.6	4058.2	4046.7	4058.2	4058.2	3964.0	3887.0	3787.0	3644.7	3679.3
70°	3379.3	3490.8	3706.2	3762.0	3860.1	3860.1	3777.4	3660.1	3544.7	3252.3	3075.4
72.5°	2708.0	2783.0	3113.9	3385.0	3510.1	3460.1	3379.3	3183.1	2929.2	2608.0	2367.6
75°	1832.9	1877.2	2283.0	2779.2	3006.1	2963.8	2831.1	2586.9	2325.3	1967.6	1663.7
77.5°	1021.3	1079.0	1382.9	1771.4	2077.2	2071.4	2054.1	1898.3	1690.6	1394.4	1236.7
80°	600.1	619.3	778.9	1061.7	1325.2	1261.7	1217.5	1094.4	988.6	854.0	975.1
82.5°	367.4	348.1	442.4	646.2	782.8	755.9	680.9	634.7	584.7	548.1	648.2
85°	100.0	90.4	180.8	271.2	332.7	359.7	359.7	355.8	319.3	240.4	288.5
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



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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



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1565.6	1567.5	1561.7	1575.2	1559.8	1552.1	1529.0	1529.0	1509.8	1494.4	1477.1
5°	1748.3	1759.8	1750.2	1752.1	1721.4	1690.6	1644.4	1617.5	1569.4	1517.5	1463.6
7.5°	1871.4	1890.6	1882.9	1850.2	1802.2	1736.8	1659.8	1586.7	1507.9	1423.3	1344.4
10°	1904.1	1925.2	1907.9	1846.4	1767.5	1675.2	1582.9	1484.8	1388.6	1298.2	1213.6
12.5°	1857.9	1873.3	1836.8	1769.5	1692.5	1600.2	1504.0	1419.4	1305.9	1209.8	1111.7
15°	1740.6	1731.0	1727.1	1679.1	1625.2	1550.2	1459.8	1373.3	1267.5	1169.4	1065.5
17.5°	1613.7	1602.1	1606.0	1586.7	1579.0	1544.4	1477.1	1404.0	1309.8	1190.5	1079.0
20°	1502.1	1490.6	1496.3	1506.0	1534.8	1536.7	1525.2	1477.1	1407.9	1282.9	1146.3
22.5°	1405.9	1407.9	1427.1	1454.0	1502.1	1563.7	1611.7	1621.4	1573.3	1427.1	1255.9
25°	1377.1	1367.5	1388.6	1432.9	1513.7	1632.9	1740.6	1794.5	1767.5	1621.4	1411.7
27.5°	1367.5	1354.0	1377.1	1434.8	1563.7	1731.0	1884.9	1965.6	1975.2	1825.2	1579.0
30°	1367.5	1361.7	1384.8	1459.8	1596.4	1763.7	1934.9	2056.0	2094.5	1969.5	1725.2
32.5°	1384.8	1388.6	1429.0	1525.2	1665.6	1836.8	2013.7	2144.5	2213.7	2119.5	1842.5
35°	1423.3	1430.9	1488.6	1600.2	1752.1	1925.2	2086.8	2219.5	2331.1	2281.1	1952.2
37.5°	1506.0	1517.5	1588.7	1702.1	1840.6	1996.4	2154.1	2296.4	2458.0	2436.8	2067.6
40°	1652.1	1652.1	1723.3	1821.4	1934.9	2054.1	2209.9	2377.2	2575.3	2604.2	2209.9
42.5°	1836.8	1829.1	1875.2	1946.4	2025.3	2125.3	2265.7	2452.2	2685.0	2748.4	2317.6
45°	2090.6	2052.2	2077.2	2094.5	2133.0	2194.5	2319.5	2523.4	2773.4	2856.1	2398.4
47.5°	2388.8	2334.9	2313.8	2281.1	2267.6	2290.7	2398.4	2579.2	2858.1	2948.4	2529.2
50°	2717.7	2665.7	2609.9	2521.5	2444.5	2421.5	2486.9	2654.2	2948.4	3063.8	2673.4
52.5°	3060.0	3023.5	2950.4	2811.9	2665.7	2583.0	2613.8	2779.2	3092.7	3242.7	2844.6
55°	3373.5	3385.0	3296.6	3135.0	2925.4	2798.4	2835.0	3000.4	3354.3	3531.2	3131.2
57.5°	3710.1	3679.3	3610.1	3442.7	3213.9	3077.3	3092.7	3292.7	3646.6	3781.2	3415.8
60°	3933.2	3933.2	3858.2	3731.2	3513.9	3387.0	3410.0	3594.7	3881.3	3894.7	3542.8
62.5°	4077.4	4098.6	4039.0	3948.6	3737.0	3631.2	3710.1	3840.9	3996.7	3885.1	3479.3
65°	4008.2	4031.3	4025.5	3925.5	3775.5	3767.8	3910.1	3940.9	3927.4	3744.7	3260.0
67.5°	3694.7	3648.5	3646.6	3594.7	3563.9	3723.5	3904.3	3914.0	3687.0	3469.7	2913.8
70°	3098.5	3019.6	2988.8	3004.2	3144.6	3442.7	3700.5	3627.4	3265.8	3079.2	2481.1
72.5°	2388.8	2294.5	2275.3	2334.9	2552.2	2971.5	3323.5	3221.6	2685.0	2467.6	1921.4
75°	1694.4	1654.1	1656.0	1773.3	2007.9	2411.8	2821.5	2811.9	1988.7	1702.1	1323.2
77.5°	1232.8	1240.5	1275.2	1321.3	1523.3	1913.7	2298.4	2273.4	1415.6	1169.4	925.1
80°	1017.4	1029.0	1029.0	1004.0	1055.9	1263.6	1561.7	1667.5	948.2	786.6	646.2
82.5°	730.9	788.6	821.3	780.9	761.6	832.8	979.0	1048.2	590.5	496.2	452.0
85°	348.1	398.1	409.7	400.1	459.7	525.1	559.7	573.1	323.1	230.8	296.2
87.5°	0.0	0.0	1.9	15.4	42.3	73.1	73.1	111.6	17.3	5.8	13.5
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



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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



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CATALOG NUMBER: ISC-AF-1200-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1454.0	1429.0	1409.8	1386.7	1367.5	1348.2	1334.8	1305.9	1282.9	1230.9	1217.5
5°	1419.4	1365.6	1329.0	1294.4	1250.2	1219.4	1186.7	1146.3	1102.1	1027.1	1004.0
7.5°	1282.9	1215.5	1165.5	1115.5	1057.8	1005.9	957.8	904.0	827.0	746.2	715.5
10°	1134.8	1063.6	994.4	934.7	865.5	807.8	765.5	727.0	665.5	603.9	563.5
12.5°	1013.6	932.8	854.0	794.3	757.8	728.9	698.2	667.4	602.0	532.8	484.7
15°	957.8	863.6	794.3	744.3	711.6	677.0	640.5	605.8	528.9	448.1	390.4
17.5°	965.5	857.8	769.3	702.0	657.8	609.7	567.4	523.1	438.5	342.4	290.4
20°	1007.8	863.6	742.4	663.5	600.1	538.5	484.7	428.9	325.0	250.0	213.5
22.5°	1061.7	882.8	727.0	625.1	546.2	469.3	400.1	334.7	240.4	196.2	178.9
25°	1154.0	927.0	723.2	590.5	494.3	402.0	330.8	261.6	194.3	173.1	163.5
27.5°	1269.4	977.0	727.0	565.5	450.1	348.1	269.3	217.3	175.0	163.5	155.8
30°	1384.8	1029.0	709.7	527.0	398.1	298.1	230.8	198.1	173.1	159.6	146.2
32.5°	1486.7	1067.4	680.9	486.6	352.0	253.9	196.2	169.3	151.9	136.6	132.7
35°	1559.8	1084.8	648.2	461.6	321.2	227.0	173.1	151.9	134.6	119.2	111.6
37.5°	1629.1	1086.7	613.5	438.5	309.7	215.4	159.6	140.4	125.0	111.6	103.9
40°	1700.2	1079.0	594.3	415.4	292.3	209.6	153.9	130.8	121.2	105.8	98.1
42.5°	1752.1	1065.5	586.6	402.0	277.0	194.3	150.0	128.9	115.4	103.9	94.2
45°	1800.2	1052.1	586.6	390.4	265.4	184.6	142.3	130.8	111.6	101.9	90.4
47.5°	1857.9	1057.8	588.5	380.8	255.8	175.0	134.6	126.9	113.5	100.0	88.5
50°	1956.0	1123.2	598.2	375.0	248.1	167.3	128.9	121.2	125.0	98.1	86.5
52.5°	2125.3	1227.1	613.5	371.2	240.4	161.6	121.2	117.3	126.9	98.1	84.6
55°	2346.5	1332.9	628.9	361.6	228.9	150.0	117.3	109.6	117.3	98.1	82.7
57.5°	2561.9	1411.7	642.4	348.1	209.6	138.5	111.6	103.9	107.7	96.2	78.9
60°	2686.9	1473.3	655.9	325.0	186.6	125.0	105.8	98.1	96.2	96.2	76.9
62.5°	2721.5	1450.2	648.2	296.2	167.3	115.4	100.0	92.3	86.5	98.1	76.9
65°	2611.9	1329.0	619.3	271.2	153.9	111.6	94.2	88.5	82.7	84.6	73.1
67.5°	2275.3	1117.4	540.5	248.1	151.9	109.6	90.4	84.6	76.9	75.0	69.2
70°	1856.0	877.0	448.1	230.8	150.0	109.6	86.5	78.9	73.1	67.3	63.5
72.5°	1427.1	655.9	377.0	223.1	151.9	107.7	80.8	71.2	65.4	61.5	57.7
75°	1004.0	463.5	313.5	200.0	142.3	101.9	75.0	63.5	57.7	53.9	50.0
77.5°	727.0	315.4	232.7	161.6	121.2	88.5	65.4	53.9	48.1	46.2	42.3
80°	463.5	194.3	155.8	119.2	88.5	69.2	50.0	42.3	38.5	34.6	32.7
82.5°	267.3	113.5	94.2	80.8	57.7	46.2	36.5	32.7	25.0	23.1	21.2
85°	163.5	71.2	51.9	42.3	36.5	28.8	21.2	19.2	13.5	11.5	9.6
87.5°	36.5	15.4	13.5	9.6	11.5	9.6	5.8	3.8	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



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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°

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	124.0
1196.3	1167.5	1169.4	1163.6	1148.2	1123.2	1115.5	1102.1	1104.0	1111.7	1104.0	115°	147.0
977.0	942.4	946.3	944.4	929.0	911.7	898.2	880.9	875.1	880.9	871.3	117.5°	170.0
692.4	669.3	677.0	694.3	692.4	682.8	671.2	652.0	648.2	650.1	632.8	120°	195.0
528.9	505.8	500.1	498.1	494.3	488.5	473.1	457.8	452.0	453.9	442.4	122.5°	220.0
442.4	423.1	400.1	378.9	359.7	352.0	332.7	323.1	321.2	321.2	315.4	125°	246.0
350.0	334.7	321.2	300.0	284.7	273.1	259.6	252.0	250.0	252.0	252.0	127.5°	269.0
261.6	253.9	248.1	246.2	238.5	230.8	223.1	219.3	217.3	217.3	219.3	130°	292.0
200.0	198.1	198.1	198.1	207.7	215.4	217.3	211.6	209.6	207.7	205.8	132.5°	314.0
173.1	171.2	173.1	184.6	178.9	173.1	173.1	173.1	173.1	173.1	175.0	135°	337.0
159.6	161.6	163.5	157.7	151.9	148.1	146.2	146.2	144.2	144.2	146.2	137.5°	360.0
151.9	150.0	148.1	144.2	140.4	134.6	132.7	130.8	130.8	130.8	130.8	140°	383.0
142.3	140.4	138.5	134.6	128.9	121.2	119.2	119.2	117.3	119.2	119.2	142.5°	406.0
130.8	128.9	126.9	123.1	117.3	113.5	111.6	107.7	107.7	107.7	109.6	145°	426.0
105.8	103.9	103.9	105.8	105.8	103.9	103.9	100.0	100.0	100.0	100.0	147.5°	444.0
98.1	96.2	96.2	94.2	96.2	98.1	96.2	94.2	94.2	92.3	92.3	150°	462.0
92.3	92.3	90.4	88.5	88.5	92.3	90.4	88.5	86.5	86.5	86.5	152.5°	480.0
88.5	86.5	86.5	84.6	84.6	84.6	82.7	80.8	78.9	78.9	78.9	155°	500.0
84.6	84.6	82.7	80.8	78.9	78.9	75.0	73.1	73.1	73.1	75.0	157.5°	515.0
82.7	80.8	80.8	78.9	76.9	73.1	71.2	69.2	69.2	69.2	69.2	160°	527.0
80.8	78.9	76.9	76.9	73.1	71.2	69.2	67.3	67.3	67.3	67.3	162.5°	536.0
78.9	76.9	75.0	73.1	71.2	69.2	67.3	65.4	65.4	65.4	65.4	165°	547.0
75.0	73.1	73.1	71.2	71.2	69.2	67.3	65.4	65.4	65.4	63.5	167.5°	556.0
73.1	71.2	69.2	69.2	69.2	67.3	65.4	63.5	63.5	63.5	63.5	170°	563.0
71.2	69.2	69.2	67.3	67.3	65.4	65.4	63.5	61.5	61.5	59.6	172.5°	566.0
69.2	67.3	67.3	65.4	67.3	65.4	63.5	61.5	59.6	59.6	57.7	175°	569.0
67.3	65.4	65.4	65.4	63.5	63.5	61.5	57.7	57.7	57.7	55.8	177.5°	573.0
63.5	61.5	61.5	63.5	61.5	59.6	59.6	55.8	55.8	53.9	53.9	180°	576.0
57.7	57.7	57.7	59.6	57.7	55.8	55.8	53.9	51.9	50.0	50.0		
53.9	51.9	53.9	53.9	53.9	51.9	53.9	50.0	48.1	46.2	46.2		
46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	44.2	42.3	40.4		
36.5	38.5	38.5	38.5	38.5	40.4	38.5	38.5	38.5	36.5	34.6		
26.9	26.9	28.8	30.8	28.8	30.8	28.8	30.8	28.8	28.8	28.8		
15.4	15.4	17.3	19.2	19.2	21.2	17.3	19.2	19.2	21.2	19.2		
5.8	5.8	5.8	5.8	7.7	7.7	5.8	7.7	7.7	9.6	9.6		
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		

'228529
 ISC-AF-1200-LED-E1-SLL-7030-ULG

REPORT NUMBER: P228529
 CATALOG NUMBER: ISC-AF-12

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°	1344.4	1344.4
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	1119.4	1119.4
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	879.0	877.0
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	638.5	632.8
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	446.2	430.8
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	323.1	317.3
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	255.8	255.8
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	221.2	221.2
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	203.9	201.9
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	175.0	173.1
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	144.2	144.2
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	130.8	130.8
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	119.2	121.2
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	109.6	109.6
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	98.1	98.1
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	90.4	88.5
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	82.7	82.7
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	76.9	76.9
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	73.1	73.1
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	71.2	71.2
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	67.3	67.3
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	65.4	65.4
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	63.5	65.4
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	61.5	61.5
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	59.6	59.6
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	57.7	57.7
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	55.8	55.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	51.9	51.9
										70°	48.1	48.1
										72.5°	44.2	44.2
										75°	40.4	38.5
										77.5°	34.6	32.7
										80°	28.8	26.9
										82.5°	21.2	19.2
										85°	9.6	9.6
										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: P228529

CATALOG NUMBER: ISC-AF-1200-LED-E1

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tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	136.0	136.0	136.0
1096.3	1100.1	1104.0	1111.7	1107.8	1105.9	1104.0	1115.5	1121.3	115°	158.0	158.0	158.0
848.2	846.3	852.0	854.0	848.2	838.6	832.8	834.7	840.5	117.5°	180.5	180.8	181.0
605.8	602.0	600.1	602.0	596.2	586.6	578.9	580.8	586.6	120°	204.0	204.0	204.0
427.0	428.9	432.7	436.6	436.6	436.6	438.5	450.1	463.5	122.5°	228.0	228.0	228.0
321.2	325.0	332.7	338.5	344.3	346.2	348.1	363.5	375.0	125°	253.5	253.8	254.0
259.6	261.6	265.4	269.3	273.1	273.1	275.0	280.8	290.4	127.5°	277.5	277.2	277.0
221.2	221.2	221.2	219.3	217.3	213.5	211.6	209.6	211.6	130°	301.0	301.0	301.0
198.1	196.2	192.3	188.5	186.6	180.8	178.9	173.1	171.2	132.5°	325.0	325.0	325.0
173.1	173.1	173.1	171.2	169.3	167.3	163.5	157.7	153.9	135°	348.0	348.0	348.0
144.2	146.2	146.2	148.1	151.9	151.9	151.9	151.9	146.2	137.5°	369.0	369.0	369.0
130.8	130.8	132.7	132.7	134.6	134.6	134.6	136.6	138.5	140°	390.0	390.0	390.0
121.2	123.1	123.1	125.0	125.0	126.9	126.9	128.9	128.9	142.5°	412.0	412.0	412.0
111.6	113.5	113.5	113.5	117.3	117.3	115.4	117.3	117.3	145°	433.5	433.2	433.0
98.1	98.1	98.1	98.1	98.1	98.1	94.2	92.3	94.2	147.5°	453.0	452.5	452.0
88.5	86.5	84.6	84.6	84.6	86.5	84.6	86.5	86.5	150°	470.0	469.5	469.0
80.8	80.8	80.8	80.8	80.8	80.8	80.8	82.7	84.6	152.5°	486.5	486.2	486.0
76.9	76.9	76.9	76.9	76.9	76.9	76.9	78.9	78.9	155°	503.5	503.2	503.0
73.1	73.1	75.0	75.0	75.0	75.0	75.0	75.0	76.9	157.5°	518.0	517.5	517.0
71.2	71.2	71.2	71.2	71.2	71.2	71.2	73.1	75.0	160°	531.0	530.5	530.0
69.2	69.2	69.2	69.2	69.2	69.2	69.2	71.2	73.1	162.5°	541.0	540.5	540.0
65.4	67.3	67.3	67.3	67.3	67.3	67.3	67.3	69.2	165°	551.5	550.8	550.0
65.4	65.4	65.4	65.4	63.5	63.5	63.5	63.5	65.4	167.5°	559.0	558.5	558.0
63.5	63.5	63.5	61.5	61.5	59.6	59.6	59.6	63.5	170°	564.5	564.2	564.0
59.6	59.6	59.6	57.7	57.7	57.7	57.7	59.6	59.6	172.5°	568.0	567.5	567.0
55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	175°	571.5	570.8	570.0
53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	177.5°	575.5	574.8	574.0
51.9	50.0	50.0	50.0	50.0	51.9	50.0	50.0	50.0	180°	576.0	576.0	576.0
48.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2				
44.2	44.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3				
38.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5				
32.7	32.7	30.8	30.8	30.8	30.8	30.8	30.8	30.8				
26.9	25.0	25.0	25.0	25.0	25.0	25.0	23.1	23.1				
19.2	19.2	19.2	17.3	17.3	17.3	17.3	15.4	13.5				
7.7	9.6	9.6	11.5	9.6	9.6	9.6	7.7	3.8				
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				



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-SLL-7030-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°	1344.4	1344.4	1344.4	1344.4
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	1117.4	1136.7	1138.6	1127.1
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	832.8	857.8	855.9	840.5
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	588.5	609.7	607.8	605.8
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	477.0	496.2	502.0	515.4
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	386.6	409.7	415.4	430.8
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	298.1	317.3	323.1	334.7
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	219.3	230.8	234.6	242.3
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	171.2	175.0	176.9	178.9
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	153.9	155.8	155.8	157.7
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	142.3	144.2	144.2	146.2
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	136.6	136.6	136.6	136.6
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	130.8	130.8	130.8	132.7
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	121.2	117.3	121.2	119.2
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	94.2	94.2	96.2	98.1
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	88.5	90.4	90.4	92.3
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	84.6	86.5	88.5	90.4
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	80.8	84.6	84.6	86.5
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	78.9	80.8	82.7	84.6
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	76.9	78.9	80.8	82.7
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	73.1	76.9	78.9	80.8
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	71.2	75.0	75.0	78.9
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	67.3	71.2	71.2	75.0
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	63.5	67.3	69.2	71.2
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	61.5	63.5	65.4	67.3
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	57.7	61.5	63.5	65.4
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	55.8	59.6	59.6	63.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	51.9	55.8	55.8	57.7
								70°	48.1	50.0	51.9	53.9
								72.5°	44.2	46.2	46.2	48.1
								75°	36.5	38.5	40.4	42.3
								77.5°	30.8	30.8	34.6	34.6
								80°	23.1	23.1	25.0	26.9
								82.5°	13.5	13.5	15.4	15.4
								85°	3.8	3.8	3.8	3.8
								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



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ULG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	137.0	136.0	135.5	135.0	135.2
1150.1	1154.0	1148.2	1148.2	1152.1	1167.5	1167.5	115°	160.0	159.0	158.5	158.0	158.0
871.3	880.9	875.1	877.0	884.7	902.0	911.7	117.5°	182.0	181.0	180.5	180.0	180.2
625.1	632.8	636.6	642.4	665.5	667.4	678.9	120°	206.0	205.0	204.5	204.0	204.0
521.2	532.8	540.5	550.1	569.3	578.9	592.4	122.5°	233.0	231.0	230.0	229.0	228.8
438.5	452.0	459.7	478.9	490.4	502.0	519.3	125°	257.0	255.5	254.8	254.0	254.0
342.4	357.7	365.4	377.0	400.1	411.6	434.7	127.5°	281.0	279.5	278.8	278.0	277.8
248.1	253.9	269.3	288.5	302.0	321.2	332.7	130°	305.0	303.5	302.8	302.0	301.8
182.7	186.6	194.3	207.7	215.4	230.8	242.3	132.5°	329.0	327.5	326.8	326.0	325.8
157.7	159.6	163.5	167.3	171.2	176.9	182.7	135°	351.0	350.0	349.5	349.0	348.8
146.2	148.1	150.0	151.9	155.8	157.7	159.6	137.5°	374.0	372.0	371.0	370.0	369.8
138.5	138.5	140.4	144.2	144.2	148.1	150.0	140°	396.0	394.0	393.0	392.0	391.5
134.6	138.5	142.3	148.1	150.0	153.9	155.8	142.5°	416.0	414.5	413.8	413.0	412.8
115.4	115.4	117.3	121.2	121.2	123.1	125.0	145°	437.0	435.5	434.8	434.0	433.8
98.1	100.0	101.9	103.9	105.8	109.6	111.6	147.5°	456.0	454.5	453.8	453.0	452.8
94.2	94.2	96.2	100.0	101.9	103.9	105.8	150°	473.0	471.0	470.0	469.0	469.0
90.4	92.3	94.2	96.2	98.1	101.9	103.9	152.5°	489.0	487.5	486.8	486.0	486.0
88.5	90.4	92.3	94.2	98.1	100.0	101.9	155°	507.0	505.5	504.8	504.0	503.8
86.5	88.5	90.4	94.2	96.2	100.0	101.9	157.5°	523.0	520.5	519.2	518.0	517.8
84.6	86.5	88.5	92.3	96.2	100.0	103.9	160°	533.0	531.5	530.8	530.0	530.0
82.7	84.6	88.5	92.3	96.2	101.9	111.6	162.5°	540.0	539.0	538.5	538.0	538.5
80.8	84.6	88.5	92.3	98.1	105.8	115.4	165°	550.0	549.0	548.5	548.0	548.5
78.9	82.7	84.6	90.4	96.2	103.9	105.8	167.5°	563.0	561.0	560.0	559.0	558.8
75.0	78.9	80.8	86.5	94.2	96.2	94.2	170°	571.0	568.5	567.2	566.0	565.5
71.2	73.1	78.9	90.4	98.1	90.4	80.8	172.5°	571.0	569.5	568.8	568.0	567.8
69.2	71.2	75.0	82.7	84.6	75.0	73.1	175°	571.0	569.5	568.8	568.0	568.5
65.4	65.4	67.3	67.3	67.3	67.3	67.3	177.5°	577.0	575.5	574.8	574.0	574.0
59.6	59.6	61.5	61.5	61.5	61.5	61.5	180°	576.0	576.0	576.0	576.0	576.0
53.9	53.9	55.8	55.8	55.8	57.7	57.7						
48.1	50.0	50.0	51.9	51.9	51.9	53.9						
42.3	44.2	44.2	44.2	44.2	46.2	46.2						
36.5	36.5	38.5	38.5	38.5	38.5	38.5						
28.8	28.8	28.8	28.8	28.8	28.8	28.8						
17.3	17.3	19.2	17.3	17.3	15.4	15.4						
3.8	3.8	3.8	1.9	1.9	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
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						



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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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	1196.3	1196.3	1200.2	1215.5	1219.4	1229.0
180.5	180.8	181.0	180.8	180.5	180.2	5°	946.3	954.0	965.5	984.7	996.3	1017.4
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	705.9	717.4	727.0	748.2	765.5	786.6
228.5	228.2	228.0	228.0	228.0	228.0	10°	611.6	621.2	634.7	648.2	665.5	675.1
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	544.3	557.8	571.2	590.5	607.8	625.1
277.5	277.2	277.0	277.2	277.5	277.8	15°	461.6	477.0	492.4	513.5	538.5	555.8
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	357.7	375.0	396.2	425.1	452.0	473.1
325.5	325.2	325.0	325.0	325.0	325.0	20°	263.5	278.9	298.1	323.1	342.4	378.9
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	194.3	203.9	219.3	238.5	259.6	292.3
369.5	369.2	369.0	369.0	369.0	369.0	25°	163.5	167.3	173.1	184.6	198.1	221.2
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	151.9	153.9	157.7	163.5	171.2	182.7
412.5	412.2	412.0	412.0	412.0	412.0	30°	159.6	159.6	159.6	161.6	165.4	171.2
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	128.9	130.8	130.8	134.6	136.6	144.2
452.5	452.2	452.0	452.5	453.0	453.5	35°	115.4	117.3	119.2	121.2	125.0	126.9
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	109.6	111.6	113.5	113.5	115.4	119.2
486.0	486.0	486.0	486.2	486.5	486.8	40°	107.7	107.7	107.7	107.7	111.6	115.4
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	103.9	103.9	103.9	105.8	111.6	119.2
517.5	517.2	517.0	517.5	518.0	518.5	45°	103.9	103.9	105.8	113.5	115.4	115.4
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	107.7	111.6	113.5	111.6	109.6	109.6
539.0	539.5	540.0	540.5	541.0	541.5	50°	117.3	115.4	107.7	105.8	105.8	101.9
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	115.4	107.7	105.8	101.9	98.1	96.2
558.5	558.2	558.0	558.5	559.0	559.5	55°	103.9	101.9	96.2	92.3	90.4	92.3
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	90.4	88.5	84.6	84.6	86.5	88.5
567.5	567.2	567.0	567.5	568.0	568.5	60°	78.9	78.9	78.9	80.8	82.7	84.6
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	71.2	73.1	73.1	76.9	78.9	80.8
574.0	574.0	574.0	574.8	575.5	576.2	65°	67.3	69.2	71.2	71.2	73.1	75.0
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	63.5	63.5	65.4	67.3	69.2	71.2
						70°	57.7	59.6	61.5	63.5	63.5	65.4
						72.5°	53.9	53.9	55.8	57.7	57.7	61.5
						75°	46.2	48.1	48.1	48.1	50.0	53.9
						77.5°	40.4	38.5	40.4	40.4	42.3	44.2
						80°	28.8	26.9	26.9	28.8	28.8	28.8
						82.5°	15.4	13.5	15.4	13.5	13.5	15.4
						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



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CATALOG NUMBER: ISC-AF-1200-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
1227.1	1244.4	1252.1	1298.2	1346.3	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
1013.6	1048.2	1054.0	1138.6	1221.3	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
792.4	832.8	844.3	955.9	1071.3	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
690.5	709.7	723.2	805.9	938.6	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
640.5	659.7	677.0	744.3	848.2	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
573.1	594.3	615.5	698.2	819.3	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
490.4	519.3	546.2	646.2	805.9	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
398.1	432.7	465.4	590.5	786.6	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
313.5	344.3	380.8	538.5	786.6	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
242.3	273.1	309.7	492.4	807.8	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
198.1	223.1	259.6	455.8	838.6	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
178.9	194.3	217.3	402.0	859.7	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
151.9	163.5	184.6	369.3	873.2	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
134.6	148.1	169.3	348.1	871.3	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
125.0	138.5	163.5	340.4	871.3	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
125.0	138.5	159.6	332.7	877.0	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
123.1	130.8	148.1	328.9	886.7	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
117.3	123.1	140.4	328.9	905.9	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
109.6	117.3	134.6	334.7	942.4	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
103.9	111.6	132.7	334.7	1017.4	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
98.1	109.6	130.8	330.8	1125.1	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
96.2	105.8	126.9	327.0	1257.9	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
94.2	101.9	117.3	317.3	1363.6	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
90.4	96.2	107.7	300.0	1434.8	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
84.6	90.4	98.1	280.8	1450.2	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
80.8	86.5	98.1	265.4	1355.9	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
75.0	84.6	100.0	252.0	1150.1	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
71.2	84.6	101.9	246.2	913.6								
67.3	82.7	103.9	236.6	688.5								
61.5	75.0	90.4	196.2	465.4								
50.0	57.7	67.3	125.0	246.2								
32.7	34.6	38.5	76.9	136.6								
15.4	19.2	19.2	36.5	61.5								
0.0	0.0	0.0	3.8	13.5								
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								

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CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	1344.4	1344.4	1344.4
154.5	154.0	151.0	149.0	2.5°	1392.5	1415.6	1427.1
177.5	177.0	174.0	172.0	5°	1317.5	1365.6	1380.9
201.2	201.0	198.0	196.0	7.5°	1204.0	1257.9	1279.0
226.2	226.0	223.0	221.0	10°	1090.5	1157.8	1179.0
251.2	251.0	248.0	247.0	12.5°	1023.2	1104.0	1115.5
274.5	274.0	272.0	270.0	15°	996.3	1079.0	1102.1
298.2	298.0	294.0	293.0	17.5°	1023.2	1115.5	1138.6
321.2	321.0	318.0	317.0	20°	1075.1	1188.6	1225.2
345.0	345.0	341.0	339.0	22.5°	1163.6	1317.5	1363.6
367.0	367.0	364.0	363.0	25°	1307.9	1521.3	1561.7
388.2	388.0	386.0	385.0	27.5°	1461.7	1682.9	1746.4
410.0	410.0	407.0	408.0	30°	1596.4	1832.9	1884.9
431.2	431.0	428.0	428.0	32.5°	1692.5	1952.2	2011.8
452.2	452.0	448.0	447.0	35°	1806.0	2088.7	2146.4
469.2	469.0	465.0	464.0	37.5°	1936.8	2254.1	2333.0
485.2	485.0	482.0	483.0	40°	2081.0	2425.3	2513.8
503.0	503.0	501.0	502.0	42.5°	2211.8	2584.9	2683.0
519.0	519.0	516.0	517.0	45°	2313.8	2735.0	2811.9
532.0	532.0	529.0	529.0	47.5°	2431.1	2850.4	2936.9
541.0	541.0	538.0	539.0	50°	2592.6	2996.5	3098.5
552.0	552.0	548.0	549.0	52.5°	2829.2	3244.6	3317.7
560.8	561.0	558.0	559.0	55°	3115.8	3544.7	3627.4
566.8	567.0	565.0	566.0	57.5°	3379.3	3823.6	3894.7
568.8	569.0	567.0	569.0	60°	3548.5	3952.4	4012.0
572.0	572.0	569.0	570.0	62.5°	3550.4	3956.3	4031.3
577.8	578.0	574.0	575.0	65°	3410.0	3871.6	3956.3
576.0	576.0	576.0	576.0	67.5°	3054.2	3656.2	3787.0
				70°	2579.2	3233.1	3379.3
				72.5°	2011.8	2540.7	2708.0
				75°	1363.6	1686.8	1832.9
				77.5°	867.4	973.2	1021.3
				80°	511.6	575.1	600.1
				82.5°	317.3	342.4	367.4
				85°	128.9	92.3	100.0
				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

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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)