

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: P228440

Luminaire Tested: **ISS-AF-800-LED-E1-SLL-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228440
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: ISS-AF-800-LED-E1-SLL-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5632.5 lumens
Efficiency: N/A
Efficacy: 93.6 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

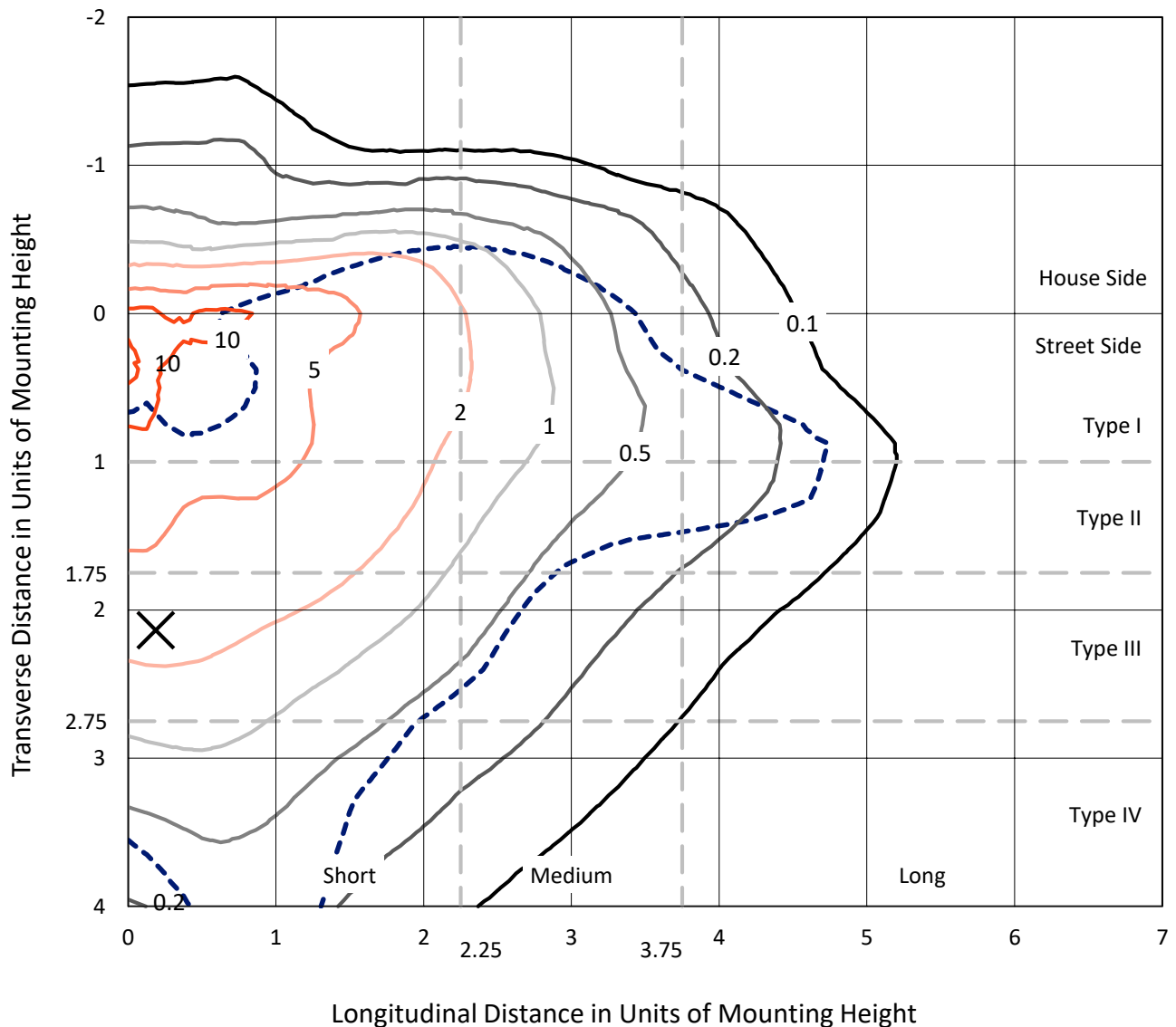
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

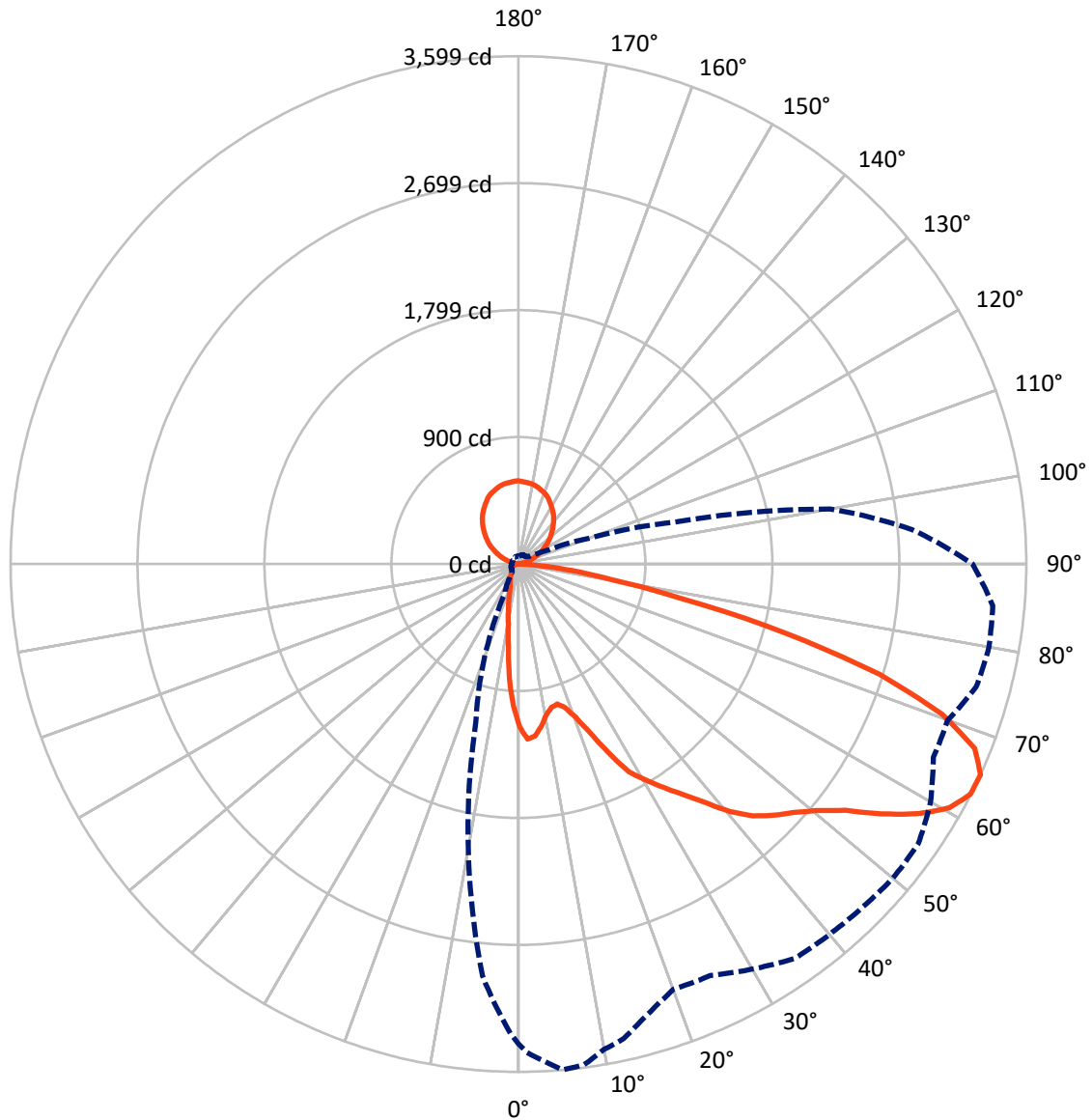
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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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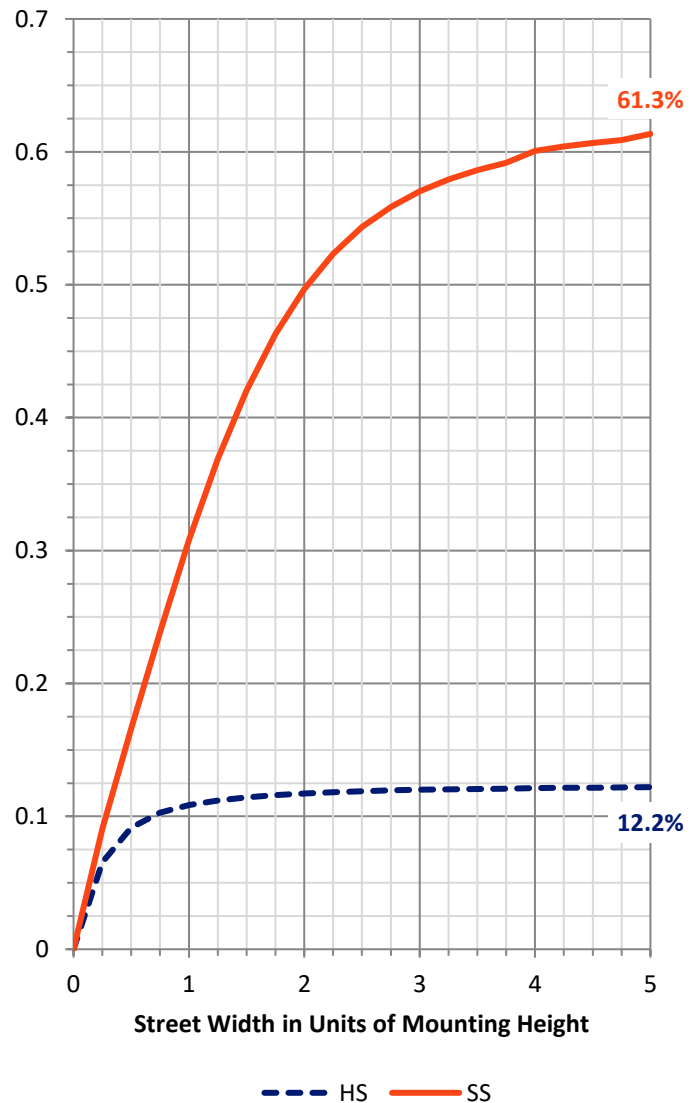
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.0	729.4	1423.4
	% Fixture	12.3	13.0	25.3
Street Side	Lumens	3479.7	729.4	4209.1
	% Fixture	61.8	13.0	74.7
Total	Lumens	4173.6	1458.9	5632.5
	% Fixture	74.1	25.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.6
10°-20°	182.8	3.2
20°-30°	265.7	4.7
30°-40°	392.9	7.0
40°-50°	572.5	10.2
50°-60°	858.2	15.2
60°-70°	1069.4	19.0
70°-80°	626.4	11.1
80°-90°	117.1	2.1
90°-100°	4.8	0.1
100°-110°	70.6	1.3
110°-120°	156.6	2.8
120°-130°	229.0	4.1
130°-140°	271.7	4.8
140°-150°	275.5	4.9
150°-160°	236.4	4.2
160°-170°	158.7	2.8
170°-180°	55.6	1.0
0°-90°	4173.6	74.1
0°-180°	5632.5	100.0



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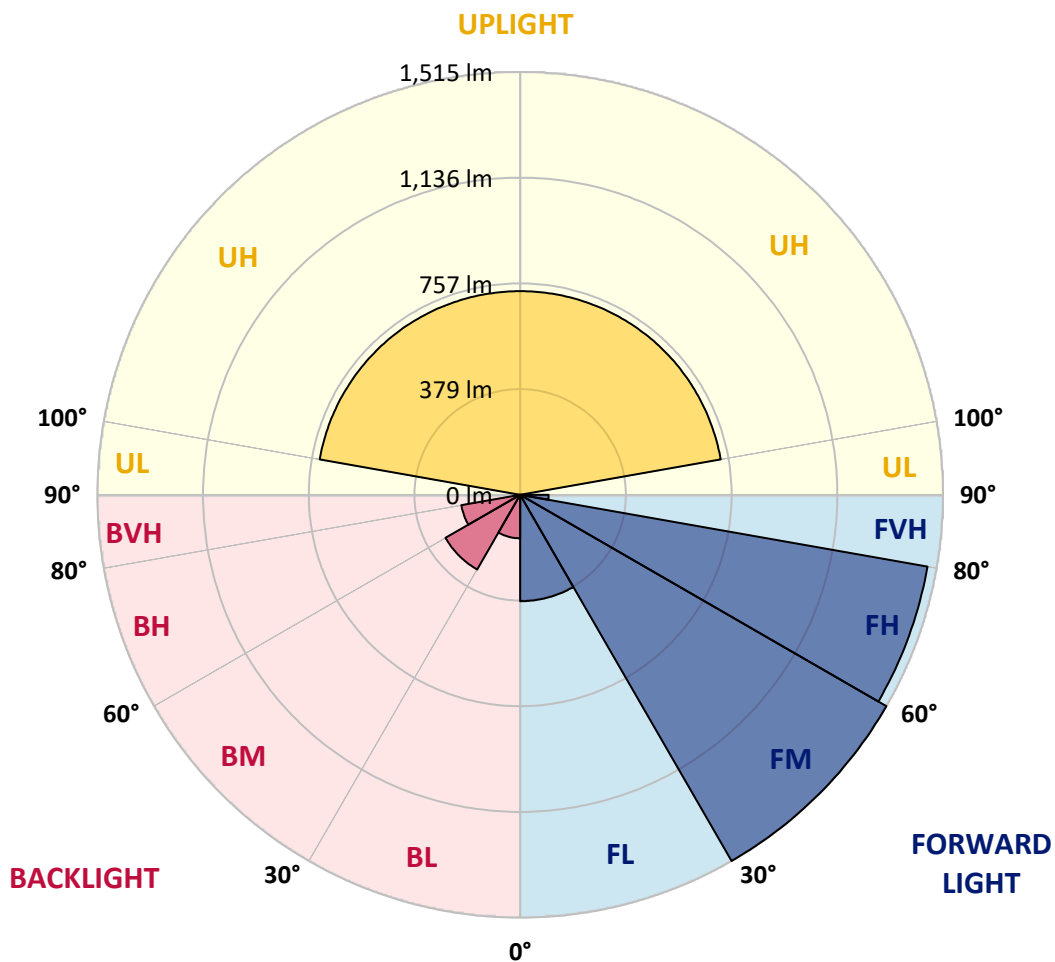
CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.3	6.8			
FM (30°-60°)	1514.7	26.9			
FH (60°-80°)	1481.6	26.3			G1/1800
FVH (80°-90°)	102.0	1.8			G2/225
BL (0°-30°)	155.8	2.8	B1/500		
BM (30°-60°)	308.9	5.5	B1/1000		
BH (60°-80°)	214.2	3.8	B1/500		G1/500
BVH (80°-90°)	15.1	0.3			G1/100
UL (90°-100°)	4.8	0.1		U1/10	
UH (100°-180°)	729.4	13.0		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°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1226.1	1222.7	1242.6	1245.9	1259.2	1259.2	1274.0	1287.2	1292.2	1303.8	1333.5
5°	1186.4	1196.3	1224.4	1252.5	1272.3	1292.2	1313.7	1340.1	1361.5	1397.9	1474.0
7.5°	1098.9	1113.7	1161.7	1189.7	1221.1	1255.8	1282.3	1313.7	1346.7	1407.8	1543.3
10°	1012.9	1024.5	1085.7	1120.3	1164.9	1201.3	1239.3	1274.0	1310.3	1386.3	1543.3
12.5°	958.4	973.2	1042.7	1075.7	1126.9	1164.9	1211.2	1252.5	1295.5	1376.4	1528.5
15°	946.8	963.3	1029.4	1070.7	1115.3	1151.7	1193.0	1235.9	1278.9	1358.3	1493.7
17.5°	978.2	998.0	1069.1	1115.3	1150.1	1191.3	1221.1	1262.4	1290.6	1353.3	1417.7
20°	1052.5	1075.7	1159.9	1204.6	1232.7	1259.2	1282.3	1307.0	1318.6	1333.5	1321.9
22.5°	1171.6	1199.6	1295.5	1346.7	1366.6	1386.3	1388.0	1391.3	1383.0	1343.3	1254.1
25°	1341.7	1369.8	1478.9	1528.5	1528.5	1528.5	1510.3	1497.1	1459.0	1384.7	1235.9
27.5°	1500.4	1536.7	1667.2	1698.6	1688.7	1673.9	1639.2	1606.1	1551.6	1427.6	1234.3
30°	1619.3	1655.6	1776.4	1801.1	1776.4	1739.9	1685.4	1637.5	1573.1	1449.1	1245.9
32.5°	1728.4	1771.3	1887.0	1890.3	1845.7	1804.4	1743.2	1688.7	1621.0	1488.8	1280.6
35°	1844.1	1887.0	2004.4	1981.1	1916.8	1860.5	1797.8	1749.9	1682.1	1540.1	1336.8
37.5°	2004.4	2042.3	2141.4	2086.9	2004.4	1931.6	1863.9	1801.1	1733.4	1609.4	1431.0
40°	2159.7	2214.2	2305.0	2217.5	2116.7	2019.2	1944.8	1878.8	1804.4	1703.6	1551.6
42.5°	2305.0	2356.3	2440.6	2328.2	2210.9	2113.4	2035.8	1964.7	1893.6	1811.0	1697.0
45°	2415.8	2468.7	2539.7	2420.7	2286.9	2186.0	2101.9	2039.0	1976.2	1920.1	1880.4
47.5°	2523.2	2576.1	2630.6	2501.7	2369.5	2267.1	2167.9	2110.0	2060.5	2030.8	2078.7
50°	2662.0	2698.3	2744.6	2605.8	2465.3	2348.0	2248.9	2204.3	2158.0	2167.9	2328.2
52.5°	2850.4	2881.8	2898.2	2762.8	2605.8	2472.0	2362.9	2301.7	2263.8	2321.6	2592.6
55°	3116.4	3161.0	3124.6	2990.8	2792.6	2640.5	2506.6	2433.9	2410.8	2488.4	2857.0
57.5°	3346.1	3365.9	3339.4	3207.3	3004.0	2833.8	2691.7	2615.7	2589.3	2691.7	3098.2
60°	3446.8	3471.7	3508.0	3393.9	3204.0	3035.4	2913.2	2838.8	2794.2	2913.2	3291.5
62.5°	3463.4	3504.7	3593.9	3536.0	3385.8	3260.1	3149.5	3047.0	3012.3	3103.1	3418.8
65°	3399.0	3461.8	3598.8	3577.4	3493.2	3445.2	3352.7	3273.3	3207.3	3217.2	3412.2
67.5°	3253.5	3326.2	3486.5	3476.6	3486.5	3486.5	3405.5	3339.4	3253.5	3131.3	3161.0
70°	2903.2	2999.1	3184.1	3232.0	3316.3	3316.3	3245.3	3144.4	3045.3	2794.2	2642.2
72.5°	2326.5	2390.9	2675.2	2908.1	3015.6	2972.6	2903.2	2734.7	2516.6	2240.7	2034.0
75°	1574.7	1612.7	1961.4	2387.7	2582.6	2546.3	2432.3	2222.5	1997.7	1690.4	1429.3
77.5°	877.4	927.0	1188.1	1521.8	1784.5	1779.6	1764.7	1630.9	1452.5	1198.0	1062.4
80°	515.6	532.0	669.2	912.1	1138.4	1083.9	1046.0	940.2	849.4	733.7	837.8
82.5°	315.6	299.1	380.0	555.2	672.5	649.4	584.9	545.3	502.4	471.0	556.9
85°	85.9	77.6	155.3	233.0	285.8	309.0	309.0	305.7	274.3	206.5	247.9
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	2.3	2.6	3.1	4.1
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	14.3	22.5
102.5°	28.6	28.6	28.6	29.7	30.7	31.7	32.7	34.3	35.8	38.9	46.0
105°	55.2	55.2	55.2	55.8	56.3	56.8	57.3	58.5	59.8	62.4	67.5
107.5°	79.8	79.6	78.8	79.6	80.3	81.0	81.8	82.9	83.9	85.9	90.0
110°	103.3	103.5	104.3	104.5	104.9	105.2	105.4	106.2	106.9	108.4	112.5



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	126.8	126.8	126.8	127.4	127.9	128.4	128.9	129.7	130.4	132.0	135.0
115°	149.4	149.6	150.4	150.9	151.4	151.9	152.4	152.9	153.4	154.5	157.5
117.5°	172.9	173.1	173.9	174.4	174.9	175.4	175.9	176.5	177.0	178.0	181.1
120°	197.4	197.8	199.5	199.7	200.0	200.3	200.5	201.0	201.5	202.5	205.6
122.5°	224.0	224.2	225.0	225.3	225.6	225.9	226.1	226.6	227.1	228.1	231.2
125°	249.6	250.0	251.6	251.9	252.2	252.5	252.7	252.9	253.2	253.7	256.8
127.5°	273.1	273.5	275.2	275.4	275.7	276.0	276.2	276.7	277.2	278.2	280.3
130°	296.7	297.1	298.7	298.9	299.2	299.5	299.7	299.9	300.2	300.7	304.8
132.5°	320.2	320.4	321.2	322.0	322.7	323.5	324.3	324.5	324.8	325.3	328.4
135°	343.7	343.9	344.7	345.2	345.8	346.3	346.8	347.3	347.8	348.8	352.9
137.5°	367.2	367.4	368.3	369.1	369.8	370.5	371.3	371.5	371.8	372.4	375.4
140°	390.8	391.0	391.8	392.3	392.8	393.3	393.8	394.0	394.3	394.9	396.9
142.5°	413.3	413.7	415.3	415.8	416.3	416.9	417.4	417.2	416.9	416.3	419.4
145°	434.8	435.0	435.8	436.3	436.8	437.3	437.8	437.8	437.8	437.8	440.9
147.5°	454.2	454.2	454.2	455.0	455.7	456.4	457.3	457.5	457.8	458.3	462.4
150°	471.6	471.8	472.6	473.1	473.6	474.1	474.6	474.9	475.2	475.7	479.8
152.5°	490.0	490.2	491.0	491.8	492.6	493.3	494.1	493.9	493.6	493.1	496.1
155°	510.5	510.7	511.5	512.0	512.5	513.0	513.5	513.3	513.0	512.5	514.5
157.5°	524.8	525.2	526.8	527.3	527.8	528.4	528.9	528.7	528.4	527.8	530.9
160°	537.0	537.5	539.1	539.6	540.1	540.6	541.1	541.1	541.1	541.1	544.2
162.5°	547.3	547.5	548.3	549.1	549.8	550.6	551.4	551.2	550.9	550.3	553.4
165°	558.5	558.7	559.6	560.1	560.6	561.1	561.6	561.4	561.1	560.6	564.7
167.5°	567.7	567.9	568.8	569.6	570.3	571.0	571.8	571.6	571.3	570.8	573.9
170°	574.9	575.1	575.9	576.7	577.5	578.2	579.0	578.8	578.5	578.0	580.0
172.5°	578.0	578.2	579.0	579.8	580.5	581.2	582.1	581.5	581.0	580.0	582.1
175°	580.0	580.4	582.1	582.3	582.6	582.9	583.1	582.9	582.6	582.1	585.1
177.5°	585.1	585.3	586.2	586.7	587.2	587.7	588.2	588.0	587.7	587.2	591.3
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1345.1	1346.7	1341.7	1353.3	1340.1	1333.5	1313.7	1313.7	1297.1	1283.9	1269.1
5°	1502.0	1511.9	1503.6	1505.3	1478.9	1452.5	1412.8	1389.7	1348.4	1303.8	1257.4
7.5°	1607.8	1624.2	1617.7	1589.6	1548.2	1492.1	1426.0	1363.2	1295.5	1222.7	1155.0
10°	1635.9	1654.0	1639.2	1586.3	1518.6	1439.2	1359.9	1275.6	1193.0	1115.3	1042.7
12.5°	1596.2	1609.4	1578.0	1520.2	1454.1	1374.7	1292.2	1219.5	1122.0	1039.3	955.0
15°	1495.3	1487.2	1483.8	1442.6	1396.2	1331.8	1254.1	1179.8	1088.9	1004.6	915.4
17.5°	1386.3	1376.4	1379.8	1363.2	1356.6	1326.9	1269.1	1206.3	1125.2	1022.8	927.0
20°	1290.6	1280.6	1285.5	1293.8	1318.6	1320.2	1310.3	1269.1	1209.5	1102.1	984.8
22.5°	1207.9	1209.5	1226.1	1249.2	1290.6	1343.3	1384.7	1393.0	1351.6	1226.1	1079.0
25°	1183.1	1174.9	1193.0	1231.0	1300.4	1402.9	1495.3	1541.7	1518.6	1393.0	1212.8
27.5°	1174.9	1163.3	1183.1	1232.7	1343.3	1487.2	1619.3	1688.7	1697.0	1568.1	1356.6
30°	1174.9	1169.8	1189.7	1254.1	1371.5	1515.2	1662.3	1766.4	1799.5	1692.1	1482.2
32.5°	1189.7	1193.0	1227.7	1310.3	1431.0	1578.0	1730.0	1842.4	1901.9	1821.0	1583.0
35°	1222.7	1229.4	1278.9	1374.7	1505.3	1654.0	1792.8	1906.9	2002.6	1959.8	1677.1
37.5°	1293.8	1303.8	1364.8	1462.3	1581.3	1715.2	1850.6	1973.0	2111.8	2093.6	1776.4
40°	1419.3	1419.3	1480.5	1564.8	1662.3	1764.7	1898.6	2042.3	2212.5	2237.3	1898.6
42.5°	1578.0	1571.5	1611.0	1672.2	1739.9	1825.9	1946.5	2106.8	2306.8	2361.3	1991.1
45°	1796.1	1763.1	1784.5	1799.5	1832.5	1885.4	1992.8	2167.9	2382.8	2453.8	2060.5
47.5°	2052.2	2006.0	1987.8	1959.8	1948.1	1968.0	2060.5	2215.8	2455.4	2533.1	2172.8
50°	2334.8	2290.2	2242.3	2166.3	2100.2	2080.4	2136.5	2280.3	2533.1	2632.3	2296.8
52.5°	2628.9	2597.6	2534.8	2415.8	2290.2	2219.2	2245.6	2387.7	2657.0	2785.9	2443.8
55°	2898.2	2908.1	2832.1	2693.3	2513.3	2404.2	2435.6	2577.7	2881.8	3033.8	2690.1
57.5°	3187.4	3161.0	3101.5	2957.8	2761.1	2643.8	2657.0	2828.9	3132.9	3248.6	2934.6
60°	3379.1	3379.1	3314.7	3205.6	3018.9	2909.8	2929.6	3088.3	3334.5	3346.1	3043.7
62.5°	3503.0	3521.2	3470.0	3392.3	3210.5	3119.7	3187.4	3299.8	3433.6	3337.8	2989.2
65°	3443.6	3463.4	3458.4	3372.5	3243.6	3237.0	3359.3	3385.8	3374.1	3217.2	2800.7
67.5°	3174.2	3134.5	3132.9	3088.3	3061.9	3199.0	3354.4	3362.5	3167.6	2980.9	2503.4
70°	2662.0	2594.2	2567.8	2581.0	2701.6	2957.8	3179.1	3116.4	2805.7	2645.5	2131.5
72.5°	2052.2	1971.3	1954.8	2006.0	2192.7	2552.9	2855.3	2767.7	2306.8	2120.0	1650.7
75°	1455.8	1421.1	1422.7	1523.5	1725.1	2072.1	2424.1	2415.8	1708.5	1462.3	1136.8
77.5°	1059.2	1065.8	1095.5	1135.2	1308.7	1644.1	1974.6	1953.1	1216.2	1004.6	794.8
80°	874.1	884.0	884.0	862.6	907.2	1085.7	1341.7	1432.6	814.6	675.9	555.2
82.5°	627.9	677.5	705.5	670.9	654.4	715.5	841.1	900.5	507.3	426.3	388.3
85°	299.1	342.1	352.0	343.7	395.0	451.1	480.9	492.4	277.6	198.2	254.5
87.5°	0.0	0.0	1.6	13.2	36.3	62.8	62.8	95.9	14.8	4.9	11.6
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°	9.2	11.3	13.3	10.2	7.2	6.1	5.1	4.6	4.1	4.1	4.1
100°	30.7	31.7	32.7	31.7	30.7	29.2	27.6	27.1	26.6	25.6	26.6
102.5°	51.1	51.7	52.2	51.7	51.1	50.1	49.1	49.6	50.1	49.1	50.1
105°	71.6	72.1	72.6	72.6	72.6	71.6	70.6	71.6	72.6	70.6	72.6
107.5°	93.1	94.1	95.1	94.6	94.1	93.6	93.1	93.6	94.1	93.1	94.1
110°	114.6	115.6	116.6	116.6	116.6	116.1	115.6	116.1	116.6	115.6	116.6



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	137.1	138.1	139.1	139.1	139.1	138.6	138.1	139.1	140.1	138.1	140.1
115°	159.6	160.6	161.6	161.6	161.6	161.6	161.6	162.6	163.7	162.6	163.7
117.5°	183.1	183.6	184.1	184.6	185.2	184.6	184.1	185.2	186.2	184.1	186.2
120°	206.6	207.7	208.7	208.7	208.7	208.7	208.7	209.7	210.7	208.7	210.7
122.5°	232.2	232.7	233.2	233.2	233.2	233.7	234.3	236.3	238.3	237.3	238.3
125°	257.8	258.3	258.8	259.3	259.8	259.8	259.8	261.4	262.9	261.9	262.9
127.5°	282.3	283.4	284.4	283.9	283.4	283.9	284.4	285.9	287.4	284.4	287.4
130°	305.9	306.9	307.9	307.9	307.9	308.4	308.9	310.5	312.0	310.0	312.0
132.5°	329.4	330.9	332.5	332.5	332.5	333.0	333.5	335.0	336.6	334.5	336.6
135°	352.9	354.5	356.0	356.0	356.0	356.5	357.0	358.0	359.1	358.0	359.1
137.5°	375.4	376.4	377.5	377.5	377.5	378.0	378.5	380.5	382.6	380.5	382.6
140°	397.9	398.4	399.0	399.0	399.0	400.0	401.0	403.0	405.1	403.0	405.1
142.5°	419.4	420.4	421.5	421.5	421.5	422.0	422.5	424.0	425.5	424.5	425.5
145°	441.9	442.9	444.0	443.4	442.9	443.4	444.0	445.5	447.0	445.0	447.0
147.5°	463.4	463.9	464.4	463.4	462.4	462.9	463.4	464.9	466.5	463.4	466.5
150°	480.8	481.3	481.8	480.8	479.8	479.8	479.8	481.8	483.9	480.8	483.9
152.5°	497.2	497.7	498.2	497.7	497.2	497.2	497.2	498.7	500.2	497.2	500.2
155°	514.5	515.1	515.6	515.1	514.5	515.1	515.6	517.1	518.6	516.6	518.6
157.5°	530.9	530.9	530.9	529.9	528.9	529.4	529.9	532.4	535.0	531.9	535.0
160°	544.2	544.2	544.2	543.2	542.2	542.2	542.2	543.7	545.2	543.2	545.2
162.5°	553.4	553.9	554.4	553.4	552.4	551.4	550.3	551.4	552.4	549.3	552.4
165°	564.7	565.2	565.7	564.2	562.6	561.6	560.6	561.6	562.6	560.6	562.6
167.5°	572.9	572.9	572.9	571.8	570.8	571.3	571.8	573.9	575.9	573.9	575.9
170°	579.0	578.5	578.0	577.5	576.9	578.0	579.0	581.5	584.1	582.1	584.1
172.5°	581.0	581.5	582.1	581.0	580.0	580.5	581.0	582.6	584.1	581.0	584.1
175°	585.1	585.6	586.2	584.6	583.1	582.1	581.0	582.6	584.1	581.0	584.1
177.5°	590.2	590.2	590.2	588.7	587.2	587.2	587.2	588.7	590.2	587.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1249.2	1227.7	1211.2	1191.3	1174.9	1158.3	1146.7	1122.0	1102.1	1057.5	1046.0
5°	1219.5	1173.2	1141.8	1112.0	1074.0	1047.6	1019.5	984.8	946.8	882.4	862.6
7.5°	1102.1	1044.3	1001.4	958.4	908.8	864.2	822.9	776.6	710.5	641.1	614.7
10°	974.9	913.8	854.3	803.0	743.6	694.0	657.7	624.6	571.7	518.8	484.2
12.5°	870.8	801.4	733.7	682.4	651.0	626.3	599.9	573.4	517.2	457.7	416.4
15°	822.9	741.9	682.4	639.4	611.4	581.6	550.2	520.5	454.4	385.0	335.4
17.5°	829.5	736.9	660.9	603.1	565.1	523.9	487.4	449.5	376.8	294.1	249.5
20°	865.8	741.9	637.8	570.1	515.6	462.7	416.4	368.5	279.3	214.8	183.4
22.5°	912.1	758.4	624.6	537.0	469.2	403.1	343.7	287.6	206.5	168.6	153.6
25°	991.4	796.5	621.3	507.3	424.6	345.3	284.2	224.7	166.8	148.7	140.5
27.5°	1090.6	839.4	624.6	485.8	386.7	299.1	231.3	186.7	150.4	140.5	133.8
30°	1189.7	884.0	609.7	452.8	342.1	256.1	198.2	170.2	148.7	137.2	125.6
32.5°	1277.3	917.1	584.9	418.1	302.4	218.1	168.6	145.4	130.5	117.3	114.1
35°	1340.1	931.9	556.9	396.6	276.0	195.0	148.7	130.5	115.7	102.4	95.9
37.5°	1399.6	933.5	527.1	376.8	266.1	185.1	137.2	120.6	107.4	95.9	89.2
40°	1460.7	927.0	510.6	356.9	251.1	180.1	132.2	112.3	104.1	90.8	84.3
42.5°	1505.3	915.4	504.0	345.3	237.9	166.8	128.9	110.7	99.1	89.2	80.9
45°	1546.6	903.9	504.0	335.4	228.0	158.7	122.2	112.3	95.9	87.6	77.6
47.5°	1596.2	908.8	505.6	327.1	219.7	150.4	115.7	109.0	97.5	85.9	76.0
50°	1680.5	964.9	513.9	322.2	213.2	143.7	110.7	104.1	107.4	84.3	74.4
52.5°	1825.9	1054.3	527.1	319.0	206.5	138.8	104.1	100.8	109.0	84.3	72.7
55°	2015.9	1145.1	540.3	310.7	196.6	128.9	100.8	94.2	100.8	84.3	71.1
57.5°	2201.0	1212.8	551.9	299.1	180.1	119.0	95.9	89.2	92.6	82.7	67.7
60°	2308.4	1265.7	563.4	279.3	160.3	107.4	90.8	84.3	82.7	82.7	66.1
62.5°	2338.2	1245.9	556.9	254.5	143.7	99.1	85.9	79.3	74.4	84.3	66.1
65°	2243.9	1141.8	532.0	233.0	132.2	95.9	80.9	76.0	71.1	72.7	62.8
67.5°	1954.8	960.0	464.3	213.2	130.5	94.2	77.6	72.7	66.1	64.4	59.5
70°	1594.6	753.5	385.0	198.2	128.9	94.2	74.4	67.7	62.8	57.8	54.5
72.5°	1226.1	563.4	323.9	191.7	130.5	92.6	69.4	61.2	56.2	52.9	49.6
75°	862.6	398.2	269.3	171.9	122.2	87.6	64.4	54.5	49.6	46.2	43.0
77.5°	624.6	271.0	200.0	138.8	104.1	76.0	56.2	46.2	41.3	39.7	36.3
80°	398.2	166.8	133.8	102.4	76.0	59.5	43.0	36.3	33.0	29.8	28.1
82.5°	229.7	97.5	80.9	69.4	49.6	39.7	31.4	28.1	21.5	19.8	18.2
85°	140.5	61.2	44.6	36.3	31.4	24.8	18.2	16.6	11.6	9.9	8.3
87.5°	31.4	13.2	11.6	8.3	9.9	8.3	4.9	3.3	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°	4.6	5.1	6.1	7.2	10.2	13.3	11.3	9.2	4.1	3.1	2.0
100°	27.1	27.6	29.2	30.7	31.7	32.7	31.7	30.7	22.5	14.3	10.2
102.5°	49.6	49.1	50.1	51.1	51.7	52.2	51.7	51.1	46.0	38.9	32.7
105°	71.6	70.6	71.6	72.6	72.6	72.6	72.1	71.6	67.5	62.4	57.3
107.5°	93.6	93.1	93.6	94.1	94.6	95.1	94.1	93.1	90.0	85.9	81.8
110°	116.1	115.6	116.1	116.6	116.6	116.6	115.6	114.6	112.5	108.4	105.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	139.1	138.1	138.6	139.1	139.1	139.1	138.1	137.1	135.0	132.0	128.9	0°
115°	162.6	161.6	161.6	161.6	161.6	161.6	160.6	159.6	157.5	154.5	152.4	2.5°
117.5°	185.2	184.1	184.6	185.2	184.6	184.1	183.6	183.1	181.1	178.0	175.9	5°
120°	209.7	208.7	208.7	208.7	208.7	208.7	207.7	206.6	205.6	202.5	200.5	7.5°
122.5°	236.3	234.3	233.7	233.2	233.2	233.2	232.7	232.2	231.2	228.1	226.1	10°
125°	261.4	259.8	259.8	259.8	259.3	258.8	258.3	257.8	256.8	253.7	252.7	12.5°
127.5°	285.9	284.4	283.9	283.4	283.9	284.4	283.4	282.3	280.3	278.2	276.2	15°
130°	310.5	308.9	308.4	307.9	307.9	307.9	306.9	305.9	304.8	300.7	299.7	17.5°
132.5°	335.0	333.5	333.0	332.5	332.5	332.5	330.9	329.4	328.4	325.3	324.3	20°
135°	358.0	357.0	356.5	356.0	356.0	356.0	354.5	352.9	352.9	348.8	346.8	22.5°
137.5°	380.5	378.5	378.0	377.5	377.5	377.5	376.4	375.4	375.4	372.4	371.3	25°
140°	403.0	401.0	400.0	399.0	399.0	399.0	398.4	397.9	396.9	394.9	393.8	27.5°
142.5°	424.0	422.5	422.0	421.5	421.5	421.5	420.4	419.4	419.4	416.3	417.4	30°
145°	445.5	444.0	443.4	442.9	443.4	444.0	442.9	441.9	440.9	437.8	437.8	32.5°
147.5°	464.9	463.4	462.9	462.4	463.4	464.4	463.9	463.4	462.4	458.3	457.3	35°
150°	481.8	479.8	479.8	479.8	480.8	481.8	481.3	480.8	479.8	475.7	474.6	37.5°
152.5°	498.7	497.2	497.2	497.2	497.7	498.2	497.7	497.2	496.1	493.1	494.1	40°
155°	517.1	515.6	515.1	514.5	515.1	515.6	515.1	514.5	514.5	512.5	513.5	42.5°
157.5°	532.4	529.9	529.4	528.9	529.9	530.9	530.9	530.9	530.9	527.8	528.9	45°
160°	543.7	542.2	542.2	542.2	543.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°
162.5°	551.4	550.3	551.4	552.4	553.4	554.4	553.9	553.4	553.4	550.3	551.4	50°
165°	561.6	560.6	561.6	562.6	564.2	565.7	565.2	564.7	564.7	560.6	561.6	52.5°
167.5°	573.9	571.8	571.3	570.8	571.8	572.9	572.9	572.9	573.9	570.8	571.8	55°
170°	581.5	579.0	578.0	576.9	577.5	578.0	578.5	579.0	580.0	578.0	579.0	57.5°
172.5°	582.6	581.0	580.5	580.0	581.0	582.1	581.5	581.0	582.1	580.0	582.1	60°
175°	582.6	581.0	582.1	583.1	584.6	586.2	585.6	585.1	585.1	582.1	583.1	62.5°
177.5°	588.7	587.2	587.2	587.2	588.7	590.2	590.2	590.2	591.3	587.2	588.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	126.8
1027.8	1003.0	1004.6	999.7	986.4	964.9	958.4	946.8	948.5	955.0	948.5	115°	150.4
839.4	809.7	812.9	811.3	798.1	783.3	771.6	756.8	751.9	756.8	748.5	117.5°	173.9
594.8	575.0	581.6	596.5	594.8	586.6	576.6	560.2	556.9	558.5	543.6	120°	199.5
454.4	434.5	429.6	428.0	424.6	419.7	406.5	393.2	388.3	389.9	380.0	122.5°	225.0
380.0	363.6	343.7	325.5	309.0	302.4	285.8	277.6	276.0	276.0	271.0	125°	251.6
300.7	287.6	276.0	257.8	244.6	234.7	223.1	216.5	214.8	216.5	216.5	127.5°	275.2
224.7	218.1	213.2	211.5	204.9	198.2	191.7	188.3	186.7	186.7	188.3	130°	298.7
171.9	170.2	170.2	170.2	178.5	185.1	186.7	181.8	180.1	178.5	176.8	132.5°	321.2
148.7	147.1	148.7	158.7	153.6	148.7	148.7	148.7	148.7	148.7	150.4	135°	344.7
137.2	138.8	140.5	135.5	130.5	127.3	125.6	125.6	123.9	123.9	125.6	137.5°	368.3
130.5	128.9	127.3	123.9	120.6	115.7	114.1	112.3	112.3	112.3	112.3	140°	391.8
122.2	120.6	119.0	115.7	110.7	104.1	102.4	102.4	100.8	102.4	102.4	142.5°	415.3
112.3	110.7	109.0	105.8	100.8	97.5	95.9	92.6	92.6	92.6	94.2	145°	435.8
90.8	89.2	89.2	90.8	90.8	89.2	89.2	85.9	85.9	85.9	85.9	147.5°	454.2
84.3	82.7	82.7	80.9	82.7	84.3	82.7	80.9	80.9	79.3	79.3	150°	472.6
79.3	79.3	77.6	76.0	76.0	79.3	77.6	76.0	74.4	74.4	74.4	152.5°	491.0
76.0	74.4	74.4	72.7	72.7	72.7	71.1	69.4	67.7	67.7	67.7	155°	511.5
72.7	72.7	71.1	69.4	67.7	67.7	64.4	62.8	62.8	62.8	64.4	157.5°	526.8
71.1	69.4	69.4	67.7	66.1	62.8	61.2	59.5	59.5	59.5	59.5	160°	539.1
69.4	67.7	66.1	66.1	62.8	61.2	59.5	57.8	57.8	57.8	57.8	162.5°	548.3
67.7	66.1	64.4	62.8	61.2	59.5	57.8	56.2	56.2	56.2	56.2	165°	559.6
64.4	62.8	62.8	61.2	61.2	59.5	57.8	56.2	56.2	56.2	54.5	167.5°	568.8
62.8	61.2	59.5	59.5	59.5	57.8	56.2	54.5	54.5	54.5	54.5	170°	575.9
61.2	59.5	59.5	57.8	57.8	56.2	56.2	54.5	52.9	52.9	51.2	172.5°	579.0
59.5	57.8	57.8	56.2	57.8	56.2	54.5	52.9	51.2	51.2	49.6	175°	582.1
57.8	56.2	56.2	56.2	54.5	54.5	52.9	49.6	49.6	49.6	47.9	177.5°	586.2
54.5	52.9	52.9	54.5	52.9	51.2	51.2	47.9	47.9	46.2	46.2	180°	589.2
49.6	49.6	49.6	51.2	49.6	47.9	47.9	46.2	44.6	43.0	43.0		
46.2	44.6	46.2	46.2	46.2	44.6	46.2	43.0	41.3	39.7	39.7		
39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	38.1	36.3	34.7		
31.4	33.0	33.0	33.0	33.0	34.7	33.0	33.0	33.0	31.4	29.8		
23.1	23.1	24.8	26.4	24.8	26.4	24.8	26.4	24.8	24.8	24.8		
13.2	13.2	14.8	16.6	16.6	18.2	14.8	16.6	16.6	18.2	16.6		
4.9	4.9	4.9	4.9	6.6	6.6	4.9	6.6	6.6	8.3	8.3		
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	3.1	4.1	9.2	11.3	12.3	13.3	11.8		
8.2	8.2	8.2	10.2	14.3	22.5	30.7	31.7	32.2	32.7	32.2		
28.6	28.6	28.6	32.7	38.9	46.0	51.1	51.7	52.0	52.2	52.0		
55.2	55.2	55.2	57.3	62.4	67.5	71.6	72.1	72.4	72.6	72.6		
78.8	79.8	78.8	81.8	85.9	90.0	93.1	94.1	94.6	95.1	94.9		
104.3	103.3	104.3	105.4	108.4	112.5	114.6	115.6	116.1	116.6	116.6		

'228440
 ISS-AF-800-LED-E1-SLL-ULG

REPORT NUMBER: P228440
 CATALOG NUMBER: ISS-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
126.8	126.8	128.9	132.0	135.0	137.1	138.1	138.6	139.1	139.1	0°	1155.0	1155.0
149.4	150.4	152.4	154.5	157.5	159.6	160.6	161.1	161.6	161.6	2.5°	961.7	961.7
172.9	173.9	175.9	178.0	181.1	183.1	183.6	183.9	184.1	184.3	5°	755.1	753.5
197.4	199.5	200.5	202.5	205.6	206.6	207.7	208.2	208.7	208.7	7.5°	548.6	543.6
224.0	225.0	226.1	228.1	231.2	232.2	232.7	233.0	233.2	233.2	10°	383.4	370.1
249.6	251.6	252.7	253.7	256.8	257.8	258.3	258.6	258.8	259.0	12.5°	277.6	272.6
273.1	275.2	276.2	278.2	280.3	282.3	283.4	283.9	284.4	284.2	15°	219.7	219.7
296.7	298.7	299.7	300.7	304.8	305.9	306.9	307.4	307.9	307.9	17.5°	190.1	190.1
320.2	321.2	324.3	325.3	328.4	329.4	330.9	331.6	332.5	332.5	20°	175.1	173.5
343.7	344.7	346.8	348.8	352.9	352.9	354.5	355.2	356.0	356.0	22.5°	150.4	148.7
367.2	368.3	371.3	372.4	375.4	375.4	376.4	377.0	377.5	377.5	25°	123.9	123.9
390.8	391.8	393.8	394.9	396.9	397.9	398.4	398.7	399.0	399.0	27.5°	112.3	112.3
413.3	415.3	417.4	416.3	419.4	419.4	420.4	420.9	421.5	421.5	30°	102.4	104.1
434.8	435.8	437.8	437.8	440.9	441.9	442.9	443.4	444.0	443.8	32.5°	94.2	94.2
454.2	454.2	457.3	458.3	462.4	463.4	463.9	464.2	464.4	463.9	35°	84.3	84.3
471.6	472.6	474.6	475.7	479.8	480.8	481.3	481.6	481.8	481.3	37.5°	77.6	76.0
490.0	491.0	494.1	493.1	496.1	497.2	497.7	498.0	498.2	498.0	40°	71.1	71.1
510.5	511.5	513.5	512.5	514.5	514.5	515.1	515.4	515.6	515.4	42.5°	66.1	66.1
524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.4	45°	62.8	62.8
537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	543.7	47.5°	61.2	61.2
547.3	548.3	551.4	550.3	553.4	553.4	553.9	554.2	554.4	553.9	50°	57.8	57.8
558.5	559.6	561.6	560.6	564.7	564.7	565.2	565.5	565.7	564.9	52.5°	56.2	56.2
567.7	568.8	571.8	570.8	573.9	572.9	572.9	572.9	572.9	572.3	55°	54.5	56.2
574.9	575.9	579.0	578.0	580.0	579.0	578.5	578.2	578.0	577.8	57.5°	52.9	52.9
578.0	579.0	582.1	580.0	582.1	581.0	581.5	581.9	582.1	581.5	60°	51.2	51.2
580.0	582.1	583.1	582.1	585.1	585.1	585.6	585.9	586.2	585.3	62.5°	49.6	49.6
585.1	586.2	588.2	587.2	591.3	590.2	590.2	590.2	590.2	589.4	65°	47.9	47.9
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	44.6	44.6
										70°	41.3	41.3
										72.5°	38.1	38.1
										75°	34.7	33.0
										77.5°	29.8	28.1
										80°	24.8	23.1
										82.5°	18.2	16.6
										85°	8.3	8.3
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.2	8.7
										100°	31.7	31.2
										102.5°	51.7	51.4
										105°	72.6	72.6
										107.5°	94.6	94.3
										110°	116.6	116.6



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0-LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	139.1	139.1	139.1
941.8	945.2	948.5	955.0	951.8	950.1	948.5	958.4	963.3	115°	161.6	161.6	161.6
728.6	727.0	732.0	733.7	728.6	720.5	715.5	717.1	722.1	117.5°	184.6	184.9	185.2
520.5	517.2	515.6	517.2	512.2	504.0	497.4	499.0	504.0	120°	208.7	208.7	208.7
366.8	368.5	371.7	375.1	375.1	375.1	376.8	386.7	398.2	122.5°	233.2	233.2	233.2
276.0	279.3	285.8	290.8	295.7	297.5	299.1	312.3	322.2	125°	259.3	259.6	259.8
223.1	224.7	228.0	231.3	234.7	234.7	236.3	241.2	249.5	127.5°	283.9	283.6	283.4
190.1	190.1	190.1	188.3	186.7	183.4	181.8	180.1	181.8	130°	307.9	307.9	307.9
170.2	168.6	165.2	161.9	160.3	155.3	153.6	148.7	147.1	132.5°	332.5	332.5	332.5
148.7	148.7	148.7	147.1	145.4	143.7	140.5	135.5	132.2	135°	356.0	356.0	356.0
123.9	125.6	125.6	127.3	130.5	130.5	130.5	130.5	125.6	137.5°	377.5	377.5	377.5
112.3	112.3	114.1	114.1	115.7	115.7	115.7	117.3	119.0	140°	399.0	399.0	399.0
104.1	105.8	105.8	107.4	107.4	109.0	109.0	110.7	110.7	142.5°	421.5	421.5	421.5
95.9	97.5	97.5	97.5	100.8	100.8	99.1	100.8	100.8	145°	443.4	443.1	442.9
84.3	84.3	84.3	84.3	84.3	84.3	80.9	79.3	80.9	147.5°	463.4	462.9	462.4
76.0	74.4	72.7	72.7	72.7	74.4	72.7	74.4	74.4	150°	480.8	480.3	479.8
69.4	69.4	69.4	69.4	69.4	69.4	69.4	71.1	72.7	152.5°	497.7	497.4	497.2
66.1	66.1	66.1	66.1	66.1	66.1	66.1	67.7	67.7	155°	515.1	514.7	514.5
62.8	62.8	64.4	64.4	64.4	64.4	64.4	64.4	66.1	157.5°	529.9	529.4	528.9
61.2	61.2	61.2	61.2	61.2	61.2	61.2	62.8	64.4	160°	543.2	542.7	542.2
59.5	59.5	59.5	59.5	59.5	59.5	59.5	61.2	62.8	162.5°	553.4	552.9	552.4
56.2	57.8	57.8	57.8	57.8	57.8	57.8	57.8	59.5	165°	564.2	563.4	562.6
56.2	56.2	56.2	56.2	54.5	54.5	54.5	54.5	56.2	167.5°	571.8	571.3	570.8
54.5	54.5	54.5	52.9	52.9	51.2	51.2	51.2	54.5	170°	577.5	577.1	576.9
51.2	51.2	51.2	49.6	49.6	49.6	49.6	51.2	51.2	172.5°	581.0	580.5	580.0
47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	175°	584.6	583.9	583.1
46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	177.5°	588.7	588.0	587.2
44.6	43.0	43.0	43.0	43.0	44.6	43.0	43.0	43.0	180°	589.2	589.2	589.2
41.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7				
38.1	38.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3				
33.0	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4				
28.1	28.1	26.4	26.4	26.4	26.4	26.4	26.4	26.4				
23.1	21.5	21.5	21.5	21.5	21.5	21.5	19.8	19.8				
16.6	16.6	16.6	14.8	14.8	14.8	14.8	13.2	11.6				
6.6	8.3	8.3	9.9	8.3	8.3	8.3	6.6	3.3				
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				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
7.2	6.6	6.1	5.6	5.1	4.9	4.6	4.1	4.1				
30.7	29.9	29.2	28.4	27.6	27.4	27.1	26.6	25.6				
51.1	50.6	50.1	49.6	49.1	49.3	49.6	50.1	49.1				
72.6	72.1	71.6	71.1	70.6	71.1	71.6	72.6	70.6				
94.1	93.9	93.6	93.3	93.1	93.3	93.6	94.1	93.1				
116.6	116.4	116.1	115.8	115.6	115.8	116.1	116.6	115.6				



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SLL-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
138.9	138.6	138.3	138.1	138.6	139.1	140.1	138.1	0°	1155.0	1155.0	1155.0	1155.0
161.6	161.6	161.6	161.6	162.1	162.6	163.7	162.6	2.5°	960.0	976.5	978.2	968.3
184.9	184.6	184.3	184.1	184.6	185.2	186.2	184.1	5°	715.5	736.9	735.3	722.1
208.7	208.7	208.7	208.7	209.2	209.7	210.7	208.7	7.5°	505.6	523.9	522.1	520.5
233.4	233.7	234.1	234.3	235.3	236.3	238.3	237.3	10°	409.8	426.3	431.3	442.8
259.8	259.8	259.8	259.8	260.6	261.4	262.9	261.9	12.5°	332.2	352.0	356.9	370.1
283.6	283.9	284.2	284.4	285.2	285.9	287.4	284.4	15°	256.1	272.6	277.6	287.6
308.1	308.4	308.7	308.9	309.7	310.5	312.0	310.0	17.5°	188.3	198.2	201.6	208.2
332.7	333.0	333.3	333.5	334.3	335.0	336.6	334.5	20°	147.1	150.4	152.0	153.6
356.2	356.5	356.8	357.0	357.5	358.0	359.1	358.0	22.5°	132.2	133.8	133.8	135.5
377.7	378.0	378.3	378.5	379.5	380.5	382.6	380.5	25°	122.2	123.9	123.9	125.6
399.5	400.0	400.5	401.0	402.0	403.0	405.1	403.0	27.5°	117.3	117.3	117.3	117.3
421.7	422.0	422.3	422.5	423.3	424.0	425.5	424.5	30°	112.3	112.3	112.3	114.1
443.1	443.4	443.8	444.0	444.8	445.5	447.0	445.0	32.5°	104.1	100.8	104.1	102.4
462.6	462.9	463.2	463.4	464.2	464.9	466.5	463.4	35°	80.9	80.9	82.7	84.3
479.8	479.8	479.8	479.8	480.8	481.8	483.9	480.8	37.5°	76.0	77.6	77.6	79.3
497.2	497.2	497.2	497.2	498.0	498.7	500.2	497.2	40°	72.7	74.4	76.0	77.6
514.7	515.1	515.4	515.6	516.4	517.1	518.6	516.6	42.5°	69.4	72.7	72.7	74.4
529.1	529.4	529.7	529.9	531.1	532.4	535.0	531.9	45°	67.7	69.4	71.1	72.7
542.2	542.2	542.2	542.2	543.0	543.7	545.2	543.2	47.5°	66.1	67.7	69.4	71.1
551.9	551.4	550.9	550.3	550.9	551.4	552.4	549.3	50°	62.8	66.1	67.7	69.4
562.1	561.6	561.1	560.6	561.1	561.6	562.6	560.6	52.5°	61.2	64.4	64.4	67.7
571.0	571.3	571.6	571.8	572.9	573.9	575.9	573.9	55°	57.8	61.2	61.2	64.4
577.5	578.0	578.5	579.0	580.2	581.5	584.1	582.1	57.5°	54.5	57.8	59.5	61.2
580.2	580.5	580.8	581.0	581.9	582.6	584.1	581.0	60°	52.9	54.5	56.2	57.8
582.6	582.1	581.5	581.0	581.9	582.6	584.1	581.0	62.5°	49.6	52.9	54.5	56.2
587.2	587.2	587.2	587.2	588.0	588.7	590.2	587.2	65°	47.9	51.2	51.2	54.5
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	44.6	47.9	47.9	49.6
								70°	41.3	43.0	44.6	46.2
								72.5°	38.1	39.7	39.7	41.3
								75°	31.4	33.0	34.7	36.3
								77.5°	26.4	26.4	29.8	29.8
								80°	19.8	19.8	21.5	23.1
								82.5°	11.6	11.6	13.2	13.2
								85°	3.3	3.3	3.3	3.3
								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°	4.1	4.6	4.9	5.1
								100°	26.6	27.1	27.4	27.6
								102.5°	50.1	49.6	49.3	49.1
								105°	72.6	71.6	71.1	70.6
								107.5°	94.1	93.6	93.3	93.1
								110°	116.6	116.1	115.8	115.6



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CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	140.1	139.1	138.6	138.1	138.3
988.2	991.4	986.4	986.4	989.8	1003.0	1003.0	115°	163.7	162.6	162.1	161.6	161.6
748.5	756.8	751.9	753.5	760.1	775.0	783.3	117.5°	186.2	185.2	184.6	184.1	184.3
537.0	543.6	547.0	551.9	571.7	573.4	583.3	120°	210.7	209.7	209.2	208.7	208.7
447.7	457.7	464.3	472.6	489.1	497.4	508.9	122.5°	238.3	236.3	235.3	234.3	234.1
376.8	388.3	395.0	411.4	421.4	431.3	446.1	125°	262.9	261.4	260.6	259.8	259.8
294.1	307.3	313.9	323.9	343.7	353.6	373.5	127.5°	287.4	285.9	285.2	284.4	284.2
213.2	218.1	231.3	247.9	259.4	276.0	285.8	130°	312.0	310.5	309.7	308.9	308.7
157.0	160.3	166.8	178.5	185.1	198.2	208.2	132.5°	336.6	335.0	334.3	333.5	333.3
135.5	137.2	140.5	143.7	147.1	152.0	157.0	135°	359.1	358.0	357.5	357.0	356.8
125.6	127.3	128.9	130.5	133.8	135.5	137.2	137.5°	382.6	380.5	379.5	378.5	378.3
119.0	119.0	120.6	123.9	123.9	127.3	128.9	140°	405.1	403.0	402.0	401.0	400.5
115.7	119.0	122.2	127.3	128.9	132.2	133.8	142.5°	425.5	424.0	423.3	422.5	422.3
99.1	99.1	100.8	104.1	104.1	105.8	107.4	145°	447.0	445.5	444.8	444.0	443.8
84.3	85.9	87.6	89.2	90.8	94.2	95.9	147.5°	466.5	464.9	464.2	463.4	463.2
80.9	80.9	82.7	85.9	87.6	89.2	90.8	150°	483.9	481.8	480.8	479.8	479.8
77.6	79.3	80.9	82.7	84.3	87.6	89.2	152.5°	500.2	498.7	498.0	497.2	497.2
76.0	77.6	79.3	80.9	84.3	85.9	87.6	155°	518.6	517.1	516.4	515.6	515.4
74.4	76.0	77.6	80.9	82.7	85.9	87.6	157.5°	535.0	532.4	531.1	529.9	529.7
72.7	74.4	76.0	79.3	82.7	85.9	89.2	160°	545.2	543.7	543.0	542.2	542.2
71.1	72.7	76.0	79.3	82.7	87.6	95.9	162.5°	552.4	551.4	550.9	550.3	550.9
69.4	72.7	76.0	79.3	84.3	90.8	99.1	165°	562.6	561.6	561.1	560.6	561.1
67.7	71.1	72.7	77.6	82.7	89.2	90.8	167.5°	575.9	573.9	572.9	571.8	571.6
64.4	67.7	69.4	74.4	80.9	82.7	80.9	170°	584.1	581.5	580.2	579.0	578.5
61.2	62.8	67.7	77.6	84.3	77.6	69.4	172.5°	584.1	582.6	581.9	581.0	580.8
59.5	61.2	64.4	71.1	72.7	64.4	62.8	175°	584.1	582.6	581.9	581.0	581.5
56.2	56.2	57.8	57.8	57.8	57.8	57.8	177.5°	590.2	588.7	588.0	587.2	587.2
51.2	51.2	52.9	52.9	52.9	52.9	52.9	180°	589.2	589.2	589.2	589.2	589.2
46.2	46.2	47.9	47.9	47.9	49.6	49.6						
41.3	43.0	43.0	44.6	44.6	44.6	46.2						
36.3	38.1	38.1	38.1	38.1	39.7	39.7						
31.4	31.4	33.0	33.0	33.0	33.0	33.0						
24.8	24.8	24.8	24.8	24.8	24.8	24.8						
14.8	14.8	16.6	14.8	14.8	13.2	13.2						
3.3	3.3	3.3	1.6	1.6	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						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.6	6.1	6.6	7.2	8.7	10.2	11.8						
28.4	29.2	29.9	30.7	31.2	31.7	32.2						
49.6	50.1	50.6	51.1	51.4	51.7	52.0						
71.1	71.6	72.1	72.6	72.6	72.6	72.6						
93.3	93.6	93.9	94.1	94.3	94.6	94.9						
115.8	116.1	116.4	116.6	116.6	116.6	116.6						



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CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
138.6	138.9	139.1	139.1	139.1	139.1	0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
161.6	161.6	161.6	161.6	161.6	161.6	2.5°	1027.8	1027.8	1031.0	1044.3	1047.6	1055.9
184.6	184.9	185.2	184.9	184.6	184.3	5°	812.9	819.6	829.5	846.0	855.9	874.1
208.7	208.7	208.7	208.7	208.7	208.7	7.5°	606.4	616.3	624.6	642.8	657.7	675.9
233.7	233.4	233.2	233.2	233.2	233.2	10°	525.5	533.7	545.3	556.9	571.7	580.0
259.8	259.8	259.8	259.6	259.3	259.0	12.5°	467.6	479.2	490.7	507.3	522.1	537.0
283.9	283.6	283.4	283.6	283.9	284.2	15°	396.6	409.8	423.0	441.2	462.7	477.5
308.4	308.1	307.9	307.9	307.9	307.9	17.5°	307.3	322.2	340.4	365.2	388.3	406.5
333.0	332.7	332.5	332.5	332.5	332.5	20°	226.4	239.6	256.1	277.6	294.1	325.5
356.5	356.2	356.0	356.0	356.0	356.0	22.5°	166.8	175.1	188.3	204.9	223.1	251.1
378.0	377.7	377.5	377.5	377.5	377.5	25°	140.5	143.7	148.7	158.7	170.2	190.1
400.0	399.5	399.0	399.0	399.0	399.0	27.5°	130.5	132.2	135.5	140.5	147.1	157.0
422.0	421.7	421.5	421.5	421.5	421.5	30°	137.2	137.2	137.2	138.8	142.1	147.1
443.4	443.1	442.9	443.1	443.4	443.8	32.5°	110.7	112.3	112.3	115.7	117.3	123.9
462.9	462.6	462.4	462.9	463.4	463.9	35°	99.1	100.8	102.4	104.1	107.4	109.0
479.8	479.8	479.8	480.3	480.8	481.3	37.5°	94.2	95.9	97.5	97.5	99.1	102.4
497.2	497.2	497.2	497.4	497.7	498.0	40°	92.6	92.6	92.6	92.6	95.9	99.1
515.1	514.7	514.5	514.7	515.1	515.4	42.5°	89.2	89.2	89.2	90.8	95.9	102.4
529.4	529.1	528.9	529.4	529.9	530.4	45°	89.2	89.2	90.8	97.5	99.1	99.1
542.2	542.2	542.2	542.7	543.2	543.7	47.5°	92.6	95.9	97.5	95.9	94.2	94.2
551.4	551.9	552.4	552.9	553.4	553.9	50°	100.8	99.1	92.6	90.8	90.8	87.6
561.6	562.1	562.6	563.4	564.2	564.9	52.5°	99.1	92.6	90.8	87.6	84.3	82.7
571.3	571.0	570.8	571.3	571.8	572.3	55°	89.2	87.6	82.7	79.3	77.6	79.3
578.0	577.5	576.9	577.1	577.5	577.8	57.5°	77.6	76.0	72.7	72.7	74.4	76.0
580.5	580.2	580.0	580.5	581.0	581.5	60°	67.7	67.7	67.7	69.4	71.1	72.7
582.1	582.6	583.1	583.9	584.6	585.3	62.5°	61.2	62.8	62.8	66.1	67.7	69.4
587.2	587.2	587.2	588.0	588.7	589.4	65°	57.8	59.5	61.2	61.2	62.8	64.4
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	54.5	54.5	56.2	57.8	59.5	61.2
						70°	49.6	51.2	52.9	54.5	54.5	56.2
						72.5°	46.2	46.2	47.9	49.6	49.6	52.9
						75°	39.7	41.3	41.3	41.3	43.0	46.2
						77.5°	34.7	33.0	34.7	34.7	36.3	38.1
						80°	24.8	23.1	23.1	24.8	24.8	24.8
						82.5°	13.2	11.6	13.2	11.6	11.6	13.2
						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°	13.3	12.3	11.3	10.2	9.2	8.0
						100°	32.7	32.2	31.7	31.2	30.7	28.6
						102.5°	52.2	52.0	51.7	51.4	51.1	49.9
						105°	72.6	72.4	72.1	71.8	71.6	70.6
						107.5°	95.1	94.6	94.1	93.6	93.1	92.3
						110°	116.6	116.1	115.6	115.1	114.6	114.1

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CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	139.1	138.6	138.1	137.6	137.1	136.6	136.1
1054.3	1069.1	1075.7	1115.3	1156.7	115°	161.6	161.1	160.6	160.1	159.6	159.1	158.6
870.8	900.5	905.5	978.2	1049.2	117.5°	184.1	183.9	183.6	183.3	183.1	182.6	182.1
680.8	715.5	725.4	821.2	920.3	120°	208.7	208.2	207.7	207.1	206.6	206.4	206.1
593.2	609.7	621.3	692.3	806.4	122.5°	233.2	233.0	232.7	232.4	232.2	232.0	231.7
550.2	566.7	581.6	639.4	728.6	125°	258.8	258.6	258.3	258.0	257.8	257.6	257.3
492.4	510.6	528.8	599.9	703.9	127.5°	284.4	283.9	283.4	282.8	282.3	281.8	281.3
421.4	446.1	469.2	555.2	692.3	130°	307.9	307.4	306.9	306.4	305.9	305.7	305.4
342.1	371.7	399.9	507.3	675.9	132.5°	332.5	331.6	330.9	330.2	329.4	329.2	328.9
269.3	295.7	327.1	462.7	675.9	135°	356.0	355.2	354.5	353.7	352.9	352.9	352.9
208.2	234.7	266.1	423.0	694.0	137.5°	377.5	377.0	376.4	375.9	375.4	375.4	375.4
170.2	191.7	223.1	391.6	720.5	140°	399.0	398.7	398.4	398.1	397.9	397.7	397.4
153.6	166.8	186.7	345.3	738.6	142.5°	421.5	420.9	420.4	419.9	419.4	419.4	419.4
130.5	140.5	158.7	317.2	750.1	145°	444.0	443.4	442.9	442.4	441.9	441.7	441.4
115.7	127.3	145.4	299.1	748.5	147.5°	464.4	464.2	463.9	463.6	463.4	463.2	462.9
107.4	119.0	140.5	292.5	748.5	150°	481.8	481.6	481.3	481.0	480.8	480.6	480.3
107.4	119.0	137.2	285.8	753.5	152.5°	498.2	498.0	497.7	497.4	497.2	496.9	496.6
105.8	112.3	127.3	282.5	761.8	155°	515.6	515.4	515.1	514.7	514.5	514.5	514.5
100.8	105.8	120.6	282.5	778.3	157.5°	530.9	530.9	530.9	530.9	530.9	530.9	530.9
94.2	100.8	115.7	287.6	809.7	160°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
89.2	95.9	114.1	287.6	874.1	162.5°	554.4	554.2	553.9	553.6	553.4	553.4	553.4
84.3	94.2	112.3	284.2	966.7	165°	565.7	565.5	565.2	564.9	564.7	564.7	564.7
82.7	90.8	109.0	280.9	1080.6	167.5°	572.9	572.9	572.9	572.9	572.9	573.1	573.4
80.9	87.6	100.8	272.6	1171.6	170°	578.0	578.2	578.5	578.8	579.0	579.2	579.5
77.6	82.7	92.6	257.8	1232.7	172.5°	582.1	581.9	581.5	581.2	581.0	581.2	581.5
72.7	77.6	84.3	241.2	1245.9	175°	586.2	585.9	585.6	585.3	585.1	585.1	585.1
69.4	74.4	84.3	228.0	1164.9	177.5°	590.2	590.2	590.2	590.2	590.2	590.4	590.8
64.4	72.7	85.9	216.5	988.2	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
61.2	72.7	87.6	211.5	784.9								
57.8	71.1	89.2	203.3	591.6								
52.9	64.4	77.6	168.6	399.9								
43.0	49.6	57.8	107.4	211.5								
28.1	29.8	33.0	66.1	117.3								
13.2	16.6	16.6	31.4	52.9								
0.0	0.0	0.0	3.3	11.6								
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								
1.0	1.0	1.0	1.0	1.0								
6.6	5.3	4.1	3.1	2.0								
26.6	24.6	22.5	14.3	10.2								
48.6	47.3	46.0	38.9	32.7								
69.6	68.5	67.5	62.4	57.3								
91.6	90.8	90.0	85.9	81.8								
113.5	113.0	112.5	108.4	105.4								

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CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
135.5	135.0	132.0	128.9	0°	1155.0	1155.0	1155.0
158.0	157.5	154.5	152.4	2.5°	1196.3	1216.2	1226.1
181.6	181.1	178.0	175.9	5°	1131.9	1173.2	1186.4
205.8	205.6	202.5	200.5	7.5°	1034.4	1080.6	1098.9
231.4	231.2	228.1	226.1	10°	936.9	994.7	1012.9
257.0	256.8	253.7	252.7	12.5°	879.0	948.5	958.4
280.8	280.3	278.2	276.2	15°	855.9	927.0	946.8
305.0	304.8	300.7	299.7	17.5°	879.0	958.4	978.2
328.6	328.4	325.3	324.3	20°	923.7	1021.2	1052.5
352.9	352.9	348.8	346.8	22.5°	999.7	1131.9	1171.6
375.4	375.4	372.4	371.3	25°	1123.6	1307.0	1341.7
397.1	396.9	394.9	393.8	27.5°	1255.8	1445.8	1500.4
419.4	419.4	416.3	417.4	30°	1371.5	1574.7	1619.3
441.1	440.9	437.8	437.8	32.5°	1454.1	1677.1	1728.4
462.6	462.4	458.3	457.3	35°	1551.6	1794.5	1844.1
480.0	479.8	475.7	474.6	37.5°	1663.9	1936.5	2004.4
496.3	496.1	493.1	494.1	40°	1787.9	2083.6	2159.7
514.5	514.5	512.5	513.5	42.5°	1900.2	2220.8	2305.0
530.9	530.9	527.8	528.9	45°	1987.8	2349.7	2415.8
544.2	544.2	541.1	541.1	47.5°	2088.6	2448.8	2523.2
553.4	553.4	550.3	551.4	50°	2227.4	2574.4	2662.0
564.7	564.7	560.6	561.6	52.5°	2430.6	2787.5	2850.4
573.7	573.9	570.8	571.8	55°	2676.9	3045.3	3116.4
579.8	580.0	578.0	579.0	57.5°	2903.2	3284.9	3346.1
581.9	582.1	580.0	582.1	60°	3048.6	3395.6	3446.8
585.1	585.1	582.1	583.1	62.5°	3050.3	3399.0	3463.4
591.1	591.3	587.2	588.2	65°	2929.6	3326.2	3399.0
589.2	589.2	589.2	589.2	67.5°	2624.0	3141.2	3253.5
				70°	2215.8	2777.6	2903.2
				72.5°	1728.4	2182.8	2326.5
				75°	1171.6	1449.1	1574.7
				77.5°	745.2	836.1	877.4
				80°	439.6	494.1	515.6
				82.5°	272.6	294.1	315.6
				85°	110.7	79.3	85.9
				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°	8.2	8.2	8.2
				102.5°	28.6	28.6	28.6
				105°	55.2	55.2	55.2
				107.5°	78.8	79.6	79.8
				110°	104.3	103.5	103.3

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	126.8	126.8	126.8
115°	150.4	149.6	149.4
117.5°	173.9	173.1	172.9
120°	199.5	197.8	197.4
122.5°	225.0	224.2	224.0
125°	251.6	250.0	249.6
127.5°	275.2	273.5	273.1
130°	298.7	297.1	296.7
132.5°	321.2	320.4	320.2
135°	344.7	343.9	343.7
137.5°	368.3	367.4	367.2
140°	391.8	391.0	390.8
142.5°	415.3	413.7	413.3
145°	435.8	435.0	434.8
147.5°	454.2	454.2	454.2
150°	472.6	471.8	471.6
152.5°	491.0	490.2	490.0
155°	511.5	510.7	510.5
157.5°	526.8	525.2	524.8
160°	539.1	537.5	537.0
162.5°	548.3	547.5	547.3
165°	559.6	558.7	558.5
167.5°	568.8	567.9	567.7
170°	575.9	575.1	574.9
172.5°	579.0	578.2	578.0
175°	582.1	580.4	580.0
177.5°	586.2	585.3	585.1
180°	589.2	589.2	589.2

(END OF REPORT)