

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: P227661

Luminaire Tested: **ISS-AF-800-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-T3-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 5416.2 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

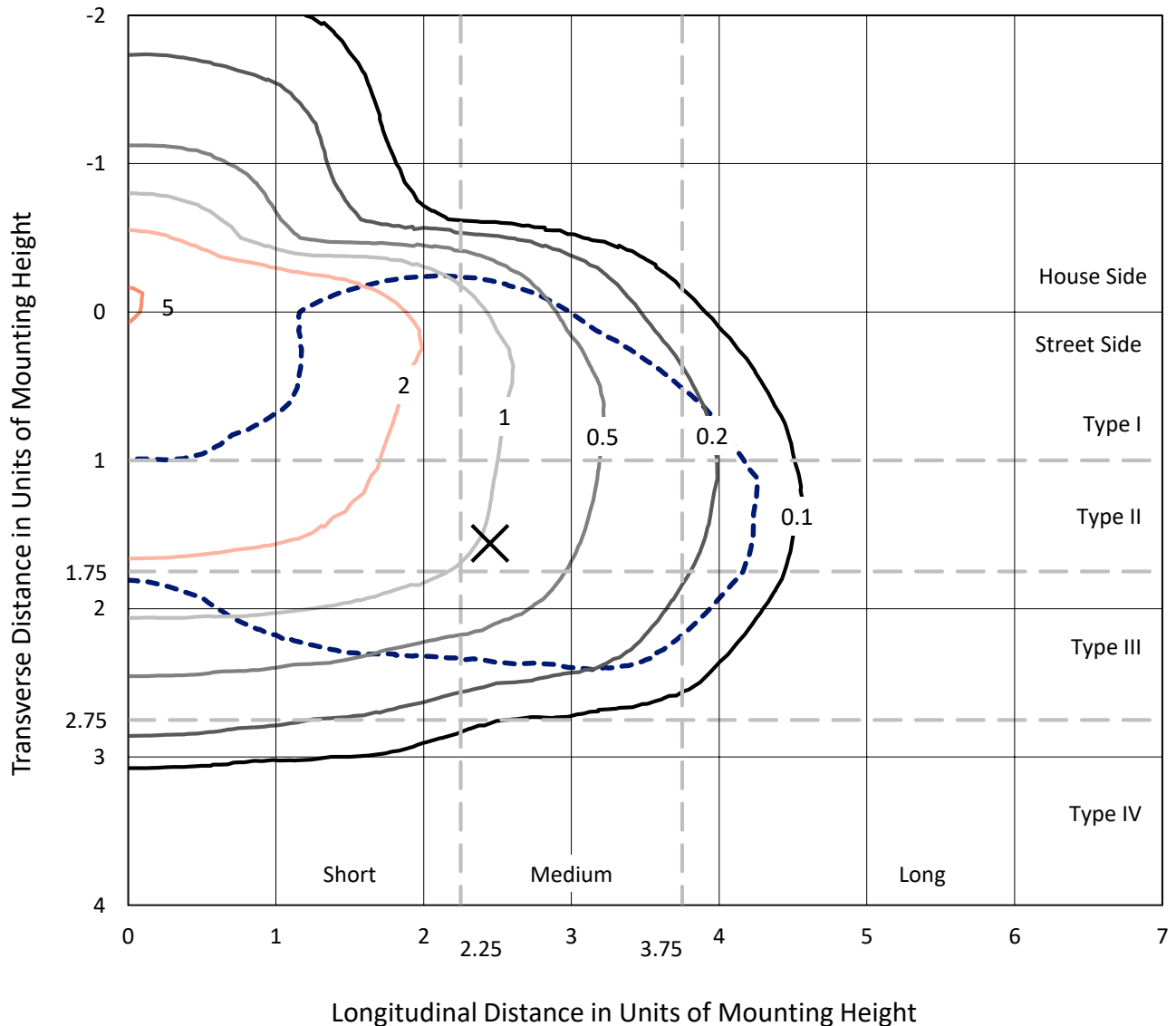
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

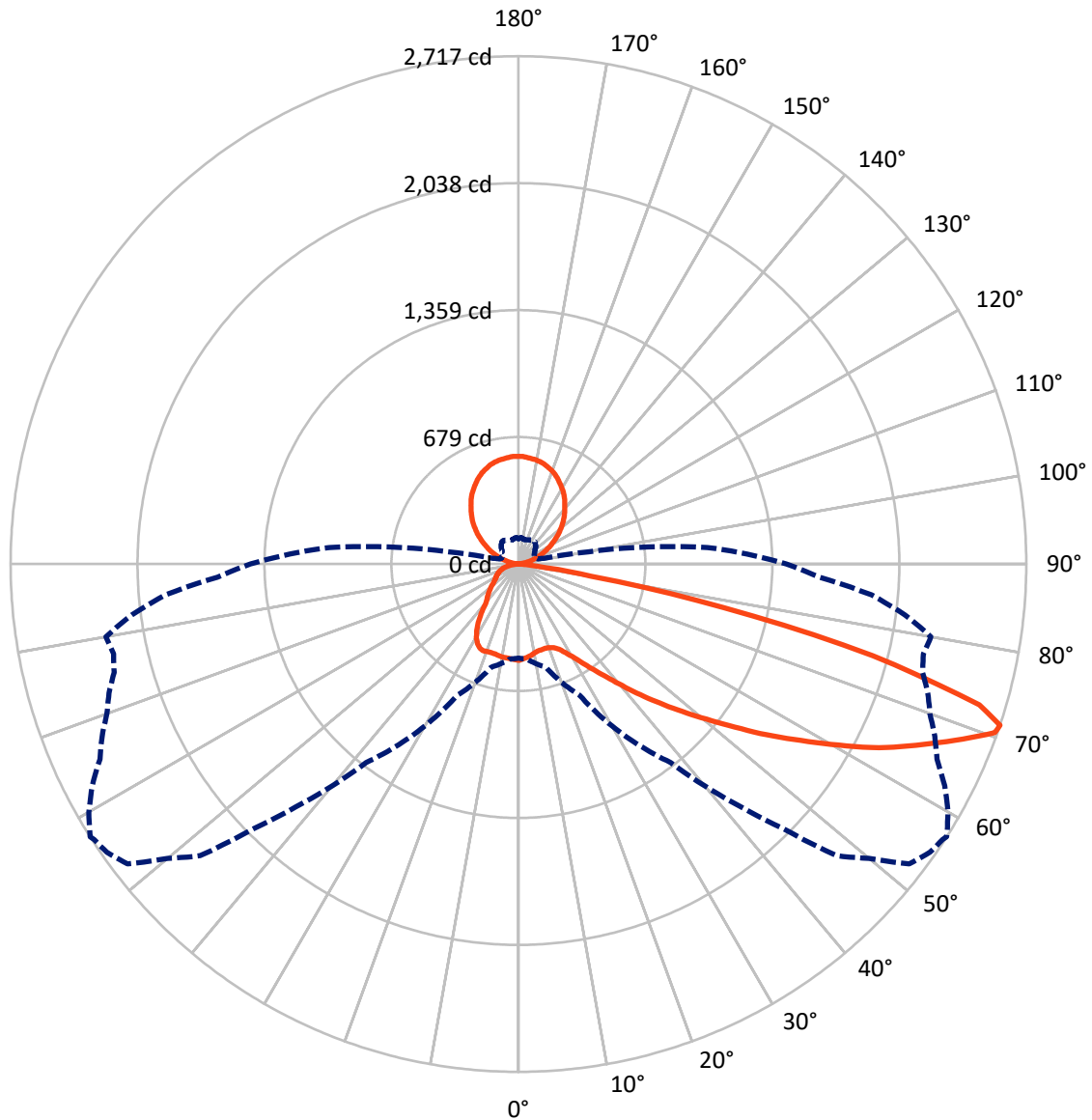
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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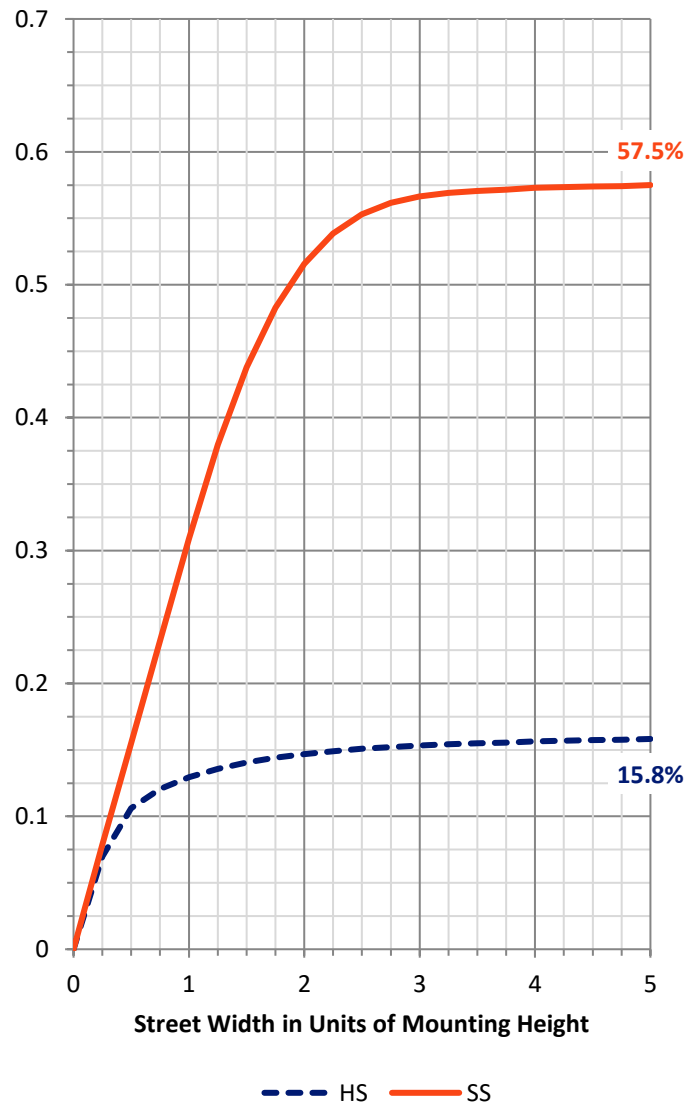
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.6	713.1	1581.7
	% Fixture	16.0	13.2	29.2
Street Side	Lumens	3121.4	713.1	3834.4
	% Fixture	57.6	13.2	70.8
Total	Lumens	3990.0	1426.2	5416.2
	% Fixture	73.7	26.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	0.9
10°-20°	139.8	2.6
20°-30°	232.1	4.3
30°-40°	369.4	6.8
40°-50°	600.1	11.1
50°-60°	899.8	16.6
60°-70°	1073.4	19.8
70°-80°	579.7	10.7
80°-90°	47.2	0.9
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.8
120°-130°	223.9	4.1
130°-140°	265.6	4.9
140°-150°	269.3	5.0
150°-160°	231.1	4.3
160°-170°	155.1	2.9
170°-180°	54.3	1.0
0°-90°	3990.0	73.7
0°-180°	5416.2	100.0



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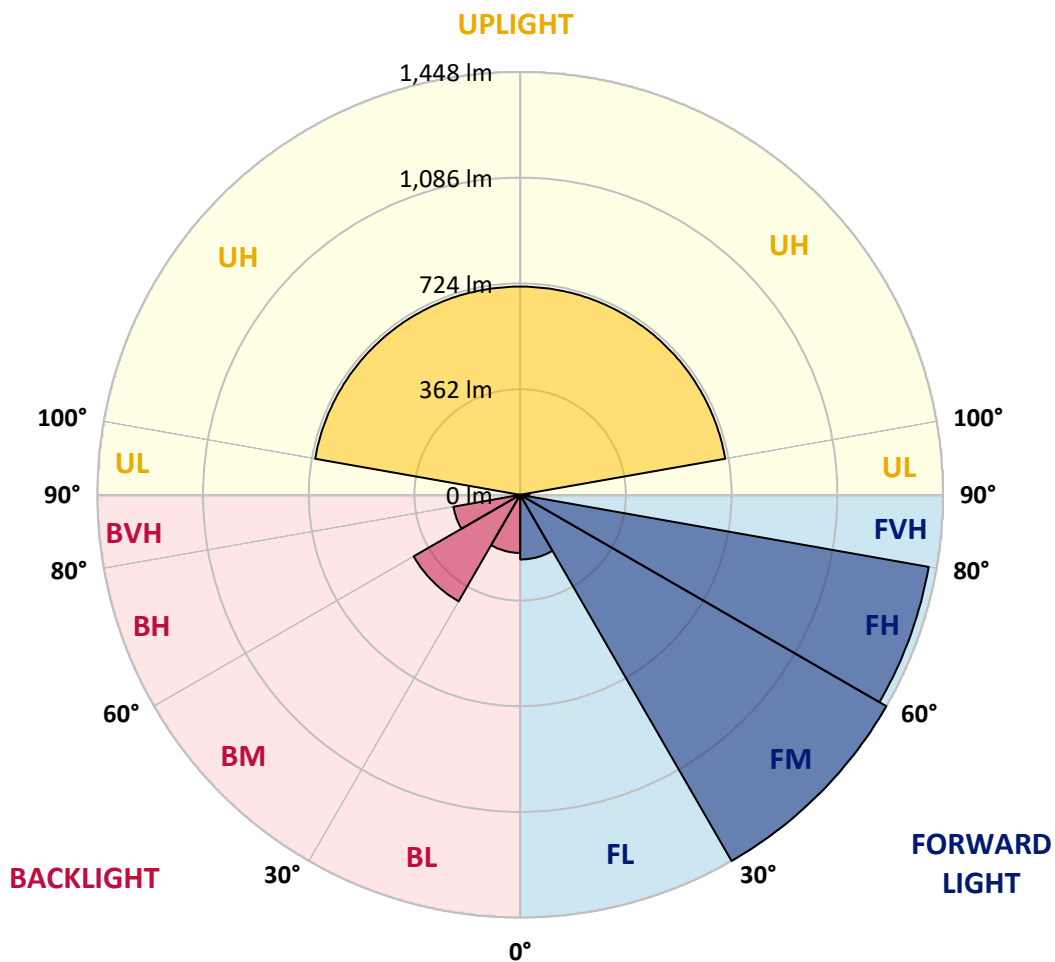
CATALOG NUMBER: ISS-AF-800-LED-E1-T3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.4	4.1			
FM	(30°-60°)	1448.1	26.7			
FH	(60°-80°)	1420.8	26.2			G1/1800
FVH	(80°-90°)	31.1	0.6			G1/100
BL	(0°-30°)	199.0	3.7	B1/500		
BM	(30°-60°)	421.2	7.8	B1/1000		
BH	(60°-80°)	232.4	4.3	B1/500		G1/500
BVH	(80°-90°)	16.1	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	13.2		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4
2.5°	515.4	514.1	512.8	512.8	512.8	511.5	507.5	508.9	512.8	510.2	514.1
5°	514.1	511.5	510.2	510.2	510.2	506.2	504.9	503.6	511.5	504.9	510.2
7.5°	499.6	499.6	497.0	499.6	502.3	498.3	495.7	497.0	503.6	497.0	503.6
10°	489.1	486.4	485.1	485.1	487.8	482.5	479.9	482.5	490.4	482.5	491.7
12.5°	485.1	486.4	482.5	482.5	481.2	474.6	474.6	474.6	481.2	474.6	482.5
15°	491.7	490.4	486.4	483.8	479.9	474.6	473.3	474.6	479.9	471.9	481.2
17.5°	500.9	500.9	494.4	487.8	483.8	478.5	478.5	475.9	479.9	474.6	481.2
20°	524.7	520.7	511.5	500.9	490.4	487.8	482.5	482.5	485.1	479.9	483.8
22.5°	565.5	561.6	545.8	526.0	508.9	502.3	499.6	498.3	495.7	493.0	493.0
25°	619.6	613.0	594.5	570.8	541.8	536.5	531.3	527.3	518.1	518.1	511.5
27.5°	677.6	671.0	651.2	624.9	589.3	581.4	574.8	569.5	553.7	553.7	541.8
30°	743.5	735.6	711.9	682.9	642.0	639.4	630.1	622.2	601.1	599.8	584.0
32.5°	820.0	809.4	785.7	747.5	704.0	705.3	690.8	685.5	657.8	659.1	638.0
35°	907.0	895.1	871.4	821.3	776.5	780.4	767.2	758.0	723.7	723.7	701.3
37.5°	999.3	999.3	968.9	910.9	856.9	866.1	850.3	841.1	806.8	812.1	776.5
40°	1102.1	1108.7	1075.7	1009.8	954.4	958.4	946.5	936.0	895.1	904.3	866.1
42.5°	1210.2	1222.0	1193.0	1124.5	1062.5	1075.7	1055.9	1045.4	1001.9	1021.7	976.8
45°	1367.1	1369.7	1315.6	1249.7	1198.3	1210.2	1182.5	1178.5	1124.5	1145.6	1100.8
47.5°	1465.9	1459.3	1419.8	1380.2	1349.9	1373.6	1348.6	1342.0	1280.1	1294.6	1231.3
50°	1533.2	1537.1	1506.8	1502.8	1508.1	1552.9	1549.0	1535.8	1462.0	1451.4	1372.3
52.5°	1593.8	1576.7	1571.4	1608.3	1665.0	1717.7	1738.8	1721.7	1641.3	1612.3	1535.8
55°	1583.3	1558.2	1585.9	1675.5	1787.6	1869.3	1872.0	1860.1	1787.6	1775.7	1692.7
57.5°	1512.1	1517.3	1574.0	1701.9	1891.7	1976.1	1990.6	1976.1	1916.8	1927.3	1858.8
60°	1413.2	1423.7	1513.4	1678.2	1974.8	2047.3	2053.9	2071.0	2031.5	2059.2	2011.7
62.5°	1265.5	1280.1	1394.7	1618.8	1916.8	2024.9	2085.5	2125.1	2117.2	2180.4	2155.4
65°	1162.7	1162.7	1274.8	1550.3	1860.1	2002.5	2093.4	2167.3	2177.8	2278.0	2268.8
67.5°	971.6	978.2	1074.4	1359.1	1791.5	1952.4	2089.5	2214.7	2278.0	2436.2	2444.1
70°	672.3	677.6	740.9	970.3	1447.5	1584.6	1786.3	1990.6	2180.4	2419.0	2543.0
71°	503.6	510.2	572.1	773.8	1226.0	1339.4	1549.0	1761.2	1999.8	2309.6	2449.4
72.5°	246.5	250.5	311.1	497.0	852.9	997.9	1119.2	1322.2	1575.3	1930.0	2127.7
75°	114.7	116.0	129.2	179.3	325.6	387.6	441.6	572.1	729.0	1040.1	1280.1
77.5°	84.4	84.4	92.3	117.3	168.7	171.4	168.7	172.7	208.3	297.9	448.2
80°	62.0	62.0	67.2	79.1	112.1	112.1	108.1	109.4	105.5	109.4	123.9
82.5°	40.9	40.9	43.5	47.5	68.6	68.6	65.9	65.9	63.3	62.0	67.2
85°	23.7	25.0	26.4	22.4	29.0	27.7	25.0	27.7	26.4	23.7	29.0
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4
2.5°	508.9	512.8	512.8	507.5	511.5	507.5	510.2	506.2	510.2	503.6	511.5
5°	504.9	508.9	508.9	500.9	508.9	500.9	507.5	498.3	507.5	497.0	507.5
7.5°	494.4	503.6	503.6	493.0	502.3	494.4	502.3	493.0	500.9	489.1	502.3
10°	482.5	491.7	493.0	482.5	493.0	483.8	495.7	483.8	495.7	482.5	497.0
12.5°	474.6	485.1	487.8	475.9	489.1	477.2	491.7	478.5	491.7	477.2	494.4
15°	473.3	482.5	485.1	474.6	486.4	473.3	490.4	474.6	491.7	475.9	495.7
17.5°	474.6	482.5	485.1	473.3	485.1	474.6	489.1	475.9	491.7	477.2	495.7
20°	478.5	483.8	483.8	477.2	486.4	477.2	489.1	475.9	493.0	479.9	497.0
22.5°	490.4	491.7	491.7	486.4	491.7	485.1	494.4	485.1	497.0	486.4	502.3
25°	510.2	508.9	506.2	504.9	506.2	502.3	507.5	500.9	512.8	503.6	519.4
27.5°	544.4	539.2	536.5	536.5	535.2	536.5	536.5	533.9	539.2	536.5	547.1
30°	586.6	577.4	573.5	577.4	572.1	577.4	576.1	574.8	580.0	577.4	586.6
32.5°	642.0	626.2	623.5	631.5	620.9	630.1	622.2	626.2	630.1	632.8	638.0
35°	706.6	688.1	685.5	693.4	681.6	694.7	685.5	690.8	693.4	700.0	704.0
37.5°	783.1	760.6	756.7	767.2	751.4	765.9	752.7	768.6	764.6	773.8	777.8
40°	875.3	849.0	839.7	854.2	835.8	847.7	834.5	851.6	847.7	866.1	870.1
42.5°	988.7	950.5	941.3	955.8	928.1	932.0	921.5	941.3	938.6	963.7	967.6
45°	1106.0	1059.9	1046.7	1061.2	1029.6	1037.5	1021.7	1042.8	1041.4	1061.2	1077.0
47.5°	1236.5	1179.9	1162.7	1178.5	1140.3	1149.5	1133.7	1156.1	1157.5	1179.9	1195.7
50°	1372.3	1313.0	1290.6	1305.1	1269.5	1276.1	1260.3	1288.0	1286.6	1317.0	1328.8
52.5°	1520.0	1459.3	1442.2	1448.8	1406.6	1414.5	1401.3	1435.6	1427.7	1446.2	1469.9
55°	1683.4	1613.6	1593.8	1613.6	1563.5	1574.0	1556.9	1588.5	1575.3	1599.1	1605.7
57.5°	1850.9	1782.3	1766.5	1781.0	1733.5	1741.4	1719.0	1745.4	1734.9	1750.7	1761.2
60°	2028.8	1966.9	1951.1	1966.9	1920.7	1922.1	1883.8	1911.5	1895.7	1915.5	1911.5
62.5°	2198.9	2146.2	2142.2	2164.6	2106.6	2100.0	2053.9	2073.7	2051.2	2064.4	2048.6
65°	2343.9	2313.6	2318.9	2337.3	2285.9	2270.1	2217.3	2227.9	2194.9	2194.9	2175.2
67.5°	2533.7	2500.8	2500.8	2516.6	2452.0	2411.1	2338.6	2329.4	2275.4	2264.8	2218.7
70°	2691.9	2701.2	2690.6	2703.8	2627.3	2544.3	2448.0	2401.9	2330.7	2296.4	2242.4
71°	2635.2	2688.0	2706.4	2717.0	2653.7	2570.6	2470.5	2411.1	2342.6	2296.4	2238.4
72.5°	2378.2	2506.1	2578.6	2578.6	2586.5	2533.7	2437.5	2372.9	2295.1	2234.5	2180.4
75°	1666.3	1874.6	1968.2	1957.6	2026.2	2049.9	2057.8	2030.2	1986.6	1899.6	1861.4
77.5°	742.2	978.2	1119.2	1120.5	1194.4	1259.0	1310.4	1364.4	1344.6	1302.5	1299.8
80°	168.7	305.8	391.5	395.5	462.7	522.0	557.6	611.7	618.3	557.6	523.4
82.5°	72.5	85.7	97.6	96.2	118.6	142.4	168.7	183.2	176.6	146.3	138.4
85°	30.3	39.5	42.2	39.5	48.8	54.0	63.3	64.6	75.1	67.2	71.2
87.5°	0.0	1.3	1.3	0.0	2.6	0.0	2.6	1.3	6.6	2.6	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.6	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.6	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.6	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.6	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.6	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.4	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.6	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.6	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.4	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.4	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4
2.5°	506.2	512.8	506.2	512.8	508.9	512.8	511.5	512.8	506.2	512.8	504.9
5°	497.0	507.5	498.3	506.2	498.3	507.5	507.5	507.5	498.3	508.9	499.6
7.5°	489.1	500.9	489.1	500.9	493.0	502.3	502.3	506.2	495.7	507.5	494.4
10°	481.2	495.7	481.2	498.3	485.1	499.6	500.9	503.6	489.1	504.9	491.7
12.5°	477.2	495.7	478.5	495.7	479.9	499.6	500.9	503.6	487.8	507.5	490.4
15°	477.2	497.0	478.5	497.0	479.9	499.6	502.3	504.9	487.8	508.9	490.4
17.5°	477.2	497.0	481.2	498.3	482.5	500.9	503.6	506.2	490.4	508.9	493.0
20°	481.2	499.6	483.8	502.3	486.4	504.9	506.2	510.2	493.0	510.2	495.7
22.5°	490.4	506.2	493.0	510.2	498.3	512.8	514.1	518.1	504.9	519.4	507.5
25°	506.2	523.4	512.8	526.0	519.4	531.3	533.9	533.9	528.6	537.9	533.9
27.5°	539.2	552.4	544.4	556.3	552.4	561.6	561.6	562.9	566.9	569.5	573.5
30°	581.4	590.6	588.0	594.5	595.9	601.1	601.1	609.0	624.9	609.0	607.7
32.5°	638.0	643.3	644.6	647.3	652.5	656.5	661.8	671.0	684.2	647.3	635.4
35°	707.9	709.2	713.2	717.1	726.4	729.0	746.1	739.6	739.6	681.6	656.5
37.5°	784.4	784.4	794.9	794.9	817.3	818.7	835.8	801.5	781.7	706.6	669.7
40°	880.6	879.3	891.2	893.8	924.1	925.4	922.8	847.7	805.5	713.2	663.1
42.5°	982.1	986.1	1001.9	1007.2	1029.6	1037.5	1004.5	879.3	816.0	709.2	640.7
45°	1092.9	1100.8	1120.5	1135.0	1158.8	1149.5	1070.4	893.8	804.2	685.5	597.2
47.5°	1214.1	1222.0	1237.9	1265.5	1276.1	1265.5	1124.5	899.1	785.7	648.6	533.9
50°	1336.7	1349.9	1372.3	1411.9	1417.2	1390.8	1190.4	918.8	771.2	610.4	461.4
52.5°	1475.2	1488.3	1514.7	1580.6	1567.4	1513.4	1268.2	955.8	775.1	586.6	399.4
55°	1621.5	1639.9	1691.4	1755.9	1726.9	1642.6	1353.9	1009.8	791.0	561.6	330.9
57.5°	1775.7	1795.5	1862.7	1939.2	1882.5	1769.1	1440.9	1052.0	798.9	510.2	255.7
60°	1928.6	1956.3	2043.3	2106.6	2018.3	1877.2	1518.7	1079.7	777.8	412.6	197.7
62.5°	2068.4	2113.2	2210.8	2245.0	2104.0	1945.8	1560.8	1059.9	692.1	284.7	159.5
65°	2167.3	2225.3	2288.5	2284.6	2088.2	1923.4	1529.2	968.9	515.4	188.5	135.8
67.5°	2209.4	2263.5	2278.0	2210.8	1974.8	1824.5	1415.8	780.4	296.6	141.1	118.6
70°	2225.3	2271.4	2189.7	2027.5	1753.3	1581.9	1157.5	497.0	162.1	114.7	102.8
71°	2218.7	2241.1	2085.5	1895.7	1612.3	1433.0	1015.1	378.3	138.4	106.8	97.6
72.5°	2129.0	2097.4	1857.5	1646.5	1367.1	1185.1	789.6	238.6	113.4	96.2	91.0
75°	1740.1	1597.8	1367.1	1168.0	930.7	744.8	428.4	122.6	91.0	83.1	79.1
77.5°	1137.7	1013.8	823.9	669.7	508.9	386.3	175.3	84.4	72.5	69.9	68.6
80°	406.0	325.6	246.5	216.2	163.5	134.5	85.7	64.6	56.7	58.0	56.7
82.5°	114.7	105.5	91.0	84.4	73.8	72.5	55.4	48.8	44.8	47.5	46.1
85°	56.7	48.8	35.6	34.3	26.4	30.3	27.7	33.0	29.0	30.3	27.7
87.5°	4.0	5.3	1.3	4.0	0.0	4.0	5.3	6.6	1.3	5.3	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	110°	113.5
514.1	508.9	515.4	508.9	515.4	511.5	515.4	511.5	515.4	518.1	518.1	112.5°	135.5
511.5	502.3	514.1	507.5	515.4	508.9	514.1	510.2	516.8	519.4	522.0	115°	158.0
510.2	500.9	512.8	503.6	515.4	506.2	514.1	508.9	516.8	519.4	524.7	117.5°	180.5
508.9	497.0	512.8	499.6	514.1	504.9	514.1	506.2	515.4	518.1	519.4	120°	204.0
508.9	495.7	512.8	498.3	514.1	500.9	512.8	500.9	514.1	512.8	508.9	122.5°	228.5
510.2	493.0	512.8	495.7	512.8	497.0	511.5	495.7	508.9	504.9	502.3	125°	254.0
510.2	493.0	511.5	494.4	510.2	495.7	507.5	493.0	504.9	503.6	499.6	127.5°	277.5
512.8	495.7	511.5	499.6	511.5	497.0	506.2	493.0	502.3	494.4	478.5	130°	301.5
520.7	508.9	520.7	508.9	514.1	500.9	504.9	489.1	487.8	474.6	449.5	132.5°	325.5
539.2	533.9	531.3	516.8	512.8	495.7	490.4	471.9	465.4	445.6	411.3	135°	348.5
562.9	551.0	535.2	518.1	500.9	479.9	465.4	450.9	436.4	411.3	367.8	137.5°	369.5
578.7	561.6	528.6	504.9	473.3	456.1	431.1	415.3	394.2	362.5	320.3	140°	391.0
589.3	562.9	512.8	485.1	442.9	420.5	387.6	370.4	340.1	309.8	279.5	142.5°	412.5
591.9	557.6	491.7	461.4	406.0	381.0	337.5	319.0	290.0	268.9	257.1	145°	433.5
581.4	539.2	458.8	419.2	358.6	329.6	288.7	275.5	258.4	250.5	245.2	147.5°	452.5
560.3	503.6	407.3	361.2	299.2	276.8	255.7	255.7	246.5	242.6	233.3	150°	469.0
522.0	450.9	341.4	296.6	254.4	250.5	238.6	243.9	237.3	234.7	221.5	152.5°	486.0
462.7	375.7	275.5	249.2	229.4	232.0	224.1	229.4	225.4	224.1	208.3	155°	503.5
386.3	299.2	232.0	222.8	209.6	213.6	207.0	213.6	209.6	210.9	199.1	157.5°	517.5
308.5	242.6	205.7	200.4	191.2	193.8	189.8	196.4	195.1	200.4	193.8	160°	530.0
246.5	207.0	183.2	179.3	174.0	175.3	174.0	180.6	181.9	192.5	192.5	162.5°	539.0
204.3	178.0	164.8	163.5	158.2	159.5	160.8	167.4	172.7	185.9	192.5	165°	549.0
175.3	159.5	150.3	149.0	146.3	147.6	150.3	158.2	163.5	180.6	195.1	167.5°	558.5
154.2	145.0	138.4	138.4	135.8	138.4	141.1	149.0	155.6	175.3	189.8	170°	565.0
138.4	131.8	127.9	129.2	127.9	130.5	133.1	141.1	149.0	167.4	181.9	172.5°	567.5
123.9	120.0	117.3	118.6	118.6	122.6	125.2	133.1	139.7	156.9	175.3	175°	569.0
112.1	109.4	108.1	109.4	110.7	114.7	118.6	123.9	129.2	145.0	166.1	177.5°	574.0
102.8	100.2	100.2	100.2	101.5	105.5	110.7	113.4	118.6	135.8	155.6	180°	576.0
97.6	96.2	96.2	96.2	97.6	101.5	106.8	109.4	114.7	131.8	150.3		
91.0	91.0	92.3	91.0	93.6	94.9	100.2	102.8	109.4	126.6	143.7		
80.4	80.4	81.7	81.7	84.4	84.4	88.3	91.0	98.9	113.4	129.2		
71.2	71.2	73.8	72.5	72.5	69.9	75.1	77.8	84.4	98.9	114.7		
60.6	59.3	62.0	58.0	56.7	54.0	58.0	62.0	72.5	81.7	84.4		
47.5	43.5	44.8	40.9	40.9	38.2	42.2	43.5	50.1	59.3	64.6		
29.0	23.7	26.4	22.4	25.0	22.4	23.7	25.0	30.3	36.9	35.6		
6.6	4.0	5.3	1.3	4.0	0.0	4.0	1.3	4.0	1.3	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		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

'227661
 ISS-AF-800-LED-E1-T3-8030-ULG

REPORT NUMBER: P227661
 CATALOG NUMBER: ISS-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	515.4	515.4
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	520.7	519.4
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	527.3	527.3
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	528.6	531.3
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	519.4	516.8
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	504.9	502.3
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	503.6	502.3
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	494.4	487.8
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	468.0	456.1
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	431.1	413.9
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	386.3	362.5
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	337.5	313.8
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	299.2	280.8
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	271.6	261.0
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	249.2	242.6
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	234.7	224.1
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	220.2	207.0
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	207.0	193.8
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	193.8	184.6
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	187.2	179.3
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	184.6	176.6
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	187.2	180.6
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	192.5	188.5
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	187.2	180.6
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	175.3	164.8
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	167.4	156.9
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	160.8	152.9
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	154.2	146.3
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	146.3	138.4
										71°	142.4	133.1
										72.5°	135.8	125.2
										75°	122.6	112.1
										77.5°	101.5	89.6
										80°	77.8	69.9
										82.5°	58.0	51.4
										85°	30.3	23.7
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



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175°	180°
515.4	515.4
520.7	519.4
528.6	529.9
533.9	532.6
519.4	516.8
504.9	504.9
503.6	503.6
485.1	483.8
453.5	449.5
408.7	404.7
353.3	348.0
304.5	304.5
271.6	271.6
254.4	255.7
238.6	239.9
214.9	214.9
195.1	195.1
185.9	184.6
178.0	176.6
172.7	171.4
167.4	167.4
163.5	163.5
163.5	160.8
164.8	160.8
162.1	159.5
162.1	160.8
164.8	162.1
164.8	159.5
150.3	141.1
142.4	134.5
127.9	122.6
109.4	108.1
85.7	84.4
69.9	65.9
50.1	43.5
19.8	19.8
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

CANDELA DISTRIBUTION (continued):

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

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

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