

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: P227534

Luminaire Tested: **ISS-AF-800-LED-E1-T2-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-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-T2-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 6359.8 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - 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

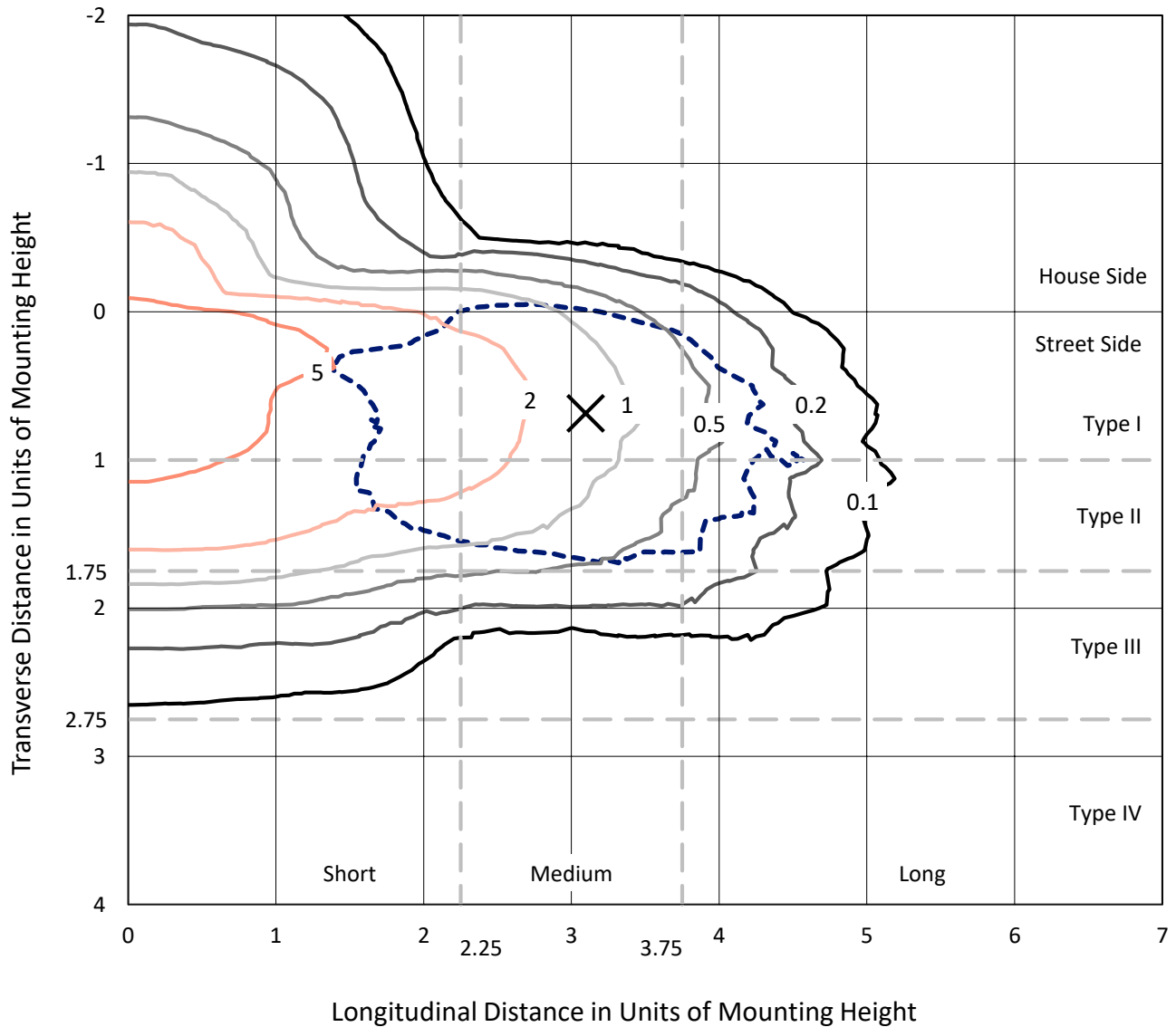


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

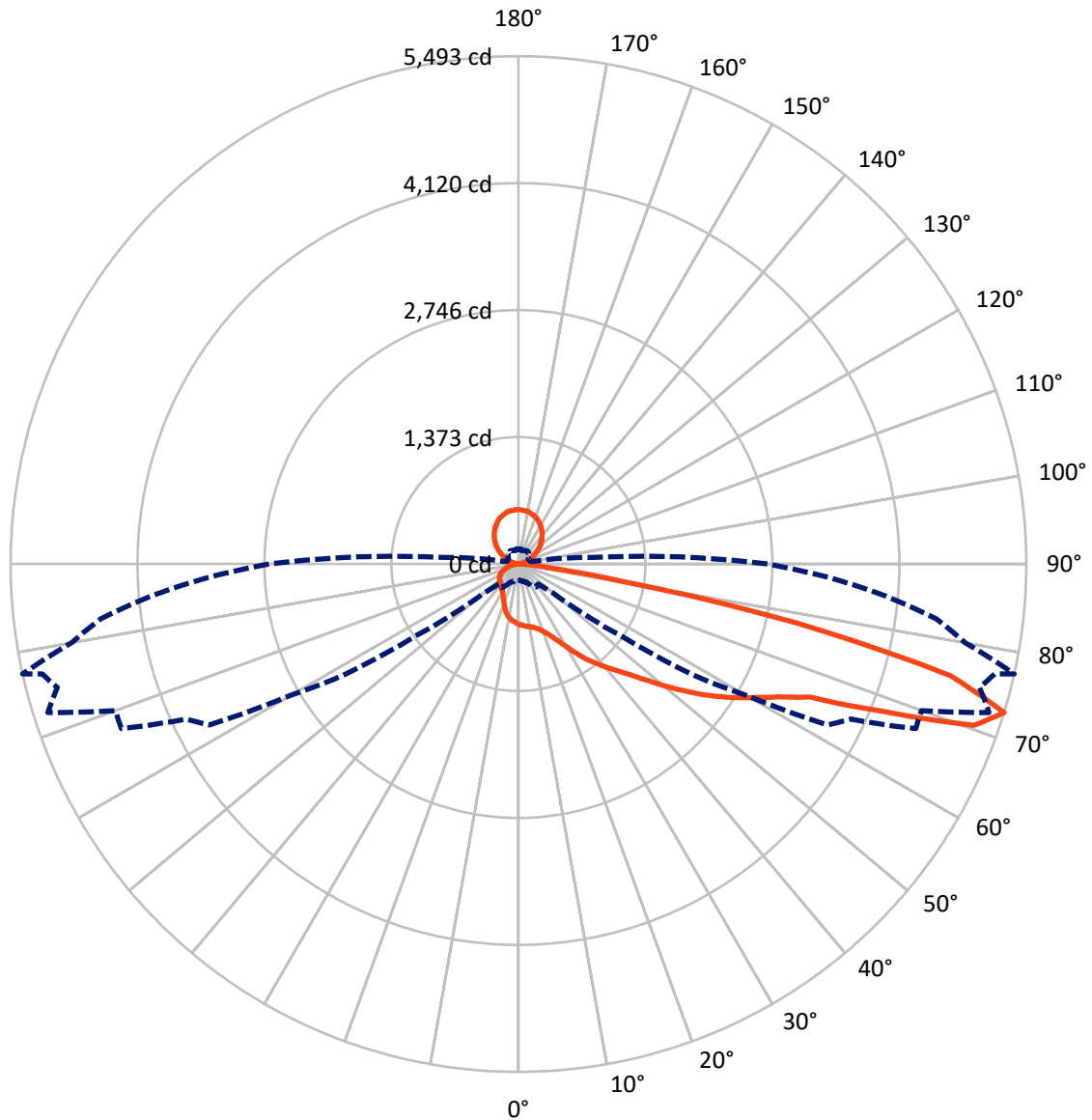


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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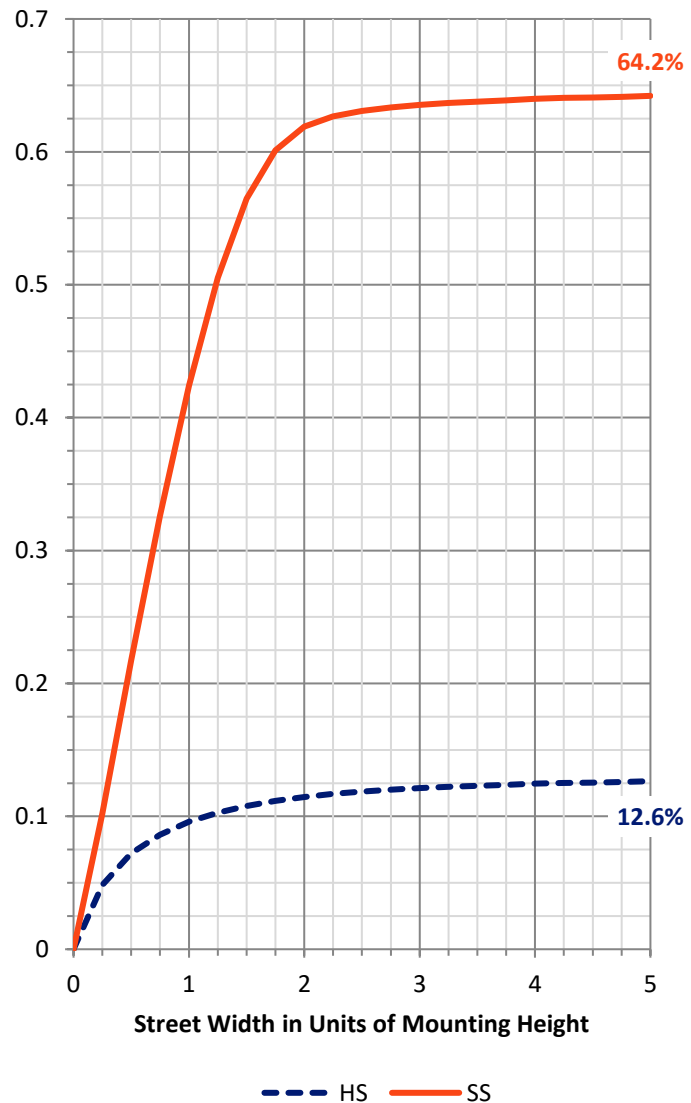
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	812.1	729.4	1541.5
	% Fixture	12.8	11.5	24.2
<b>Street Side</b>	Lumens	4088.9	729.4	4818.3
	% Fixture	64.3	11.5	75.8
<b>Total</b>	Lumens	4901.0	1458.9	6359.8
	% Fixture	77.1	22.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	1.0
10°-20°	186.4	2.9
20°-30°	330.8	5.2
30°-40°	524.2	8.2
40°-50°	786.4	12.4
50°-60°	1019.0	16.0
60°-70°	1157.9	18.2
70°-80°	768.4	12.1
80°-90°	67.2	1.1
90°-100°	4.8	0.1
100°-110°	70.6	1.1
110°-120°	156.6	2.5
120°-130°	229.0	3.6
130°-140°	271.7	4.3
140°-150°	275.5	4.3
150°-160°	236.4	3.7
160°-170°	158.7	2.5
170°-180°	55.6	0.9
0°-90°	4901.0	77.1
0°-180°	6359.8	100.0



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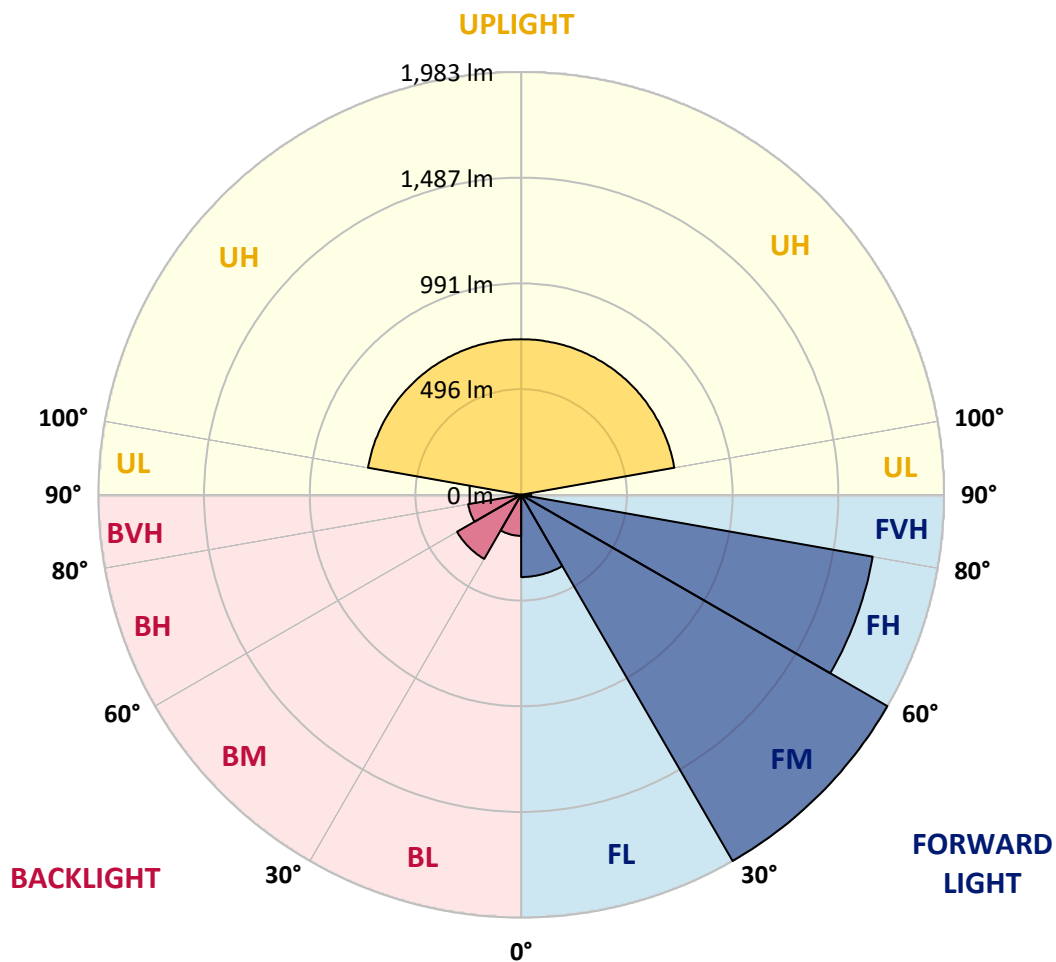
CATALOG NUMBER: ISS-AF-800-LED-E1-T2-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.6	6.1			
FM (30°-60°)	1982.7	31.2			
FH (60°-80°)	1673.7	26.3			G1/1800
FVH (80°-90°)	47.0	0.7			G1/100
BL (0°-30°)	192.4	3.0	B1/500		
BM (30°-60°)	346.9	5.5	B1/1000		
BH (60°-80°)	252.5	4.0	B1/500		G1/500
BVH (80°-90°)	20.3	0.3			G1/100
UL (90°-100°)	4.8	0.1		U1/10	
UH (100°-180°)	729.4	11.5		U4/1000	

**BUG Rating: B1-U5-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	708.9	705.6	703.9	700.6	697.3	695.7	690.7	687.4	692.3	690.7	690.7
5°	761.8	758.5	753.5	748.6	741.9	737.0	732.0	727.1	730.4	727.1	723.7
7.5°	804.8	801.4	794.8	789.8	783.3	776.6	770.1	768.3	765.1	760.2	758.5
10°	829.5	826.2	822.9	819.6	809.7	804.8	796.5	791.6	793.2	786.5	786.5
12.5°	852.6	849.4	847.7	847.7	839.4	834.5	831.1	826.2	829.5	819.6	816.3
15°	874.1	870.8	865.8	870.8	869.2	867.6	865.8	864.2	869.2	859.3	860.9
17.5°	908.8	907.2	897.2	890.7	892.3	897.2	900.6	899.0	899.0	894.0	895.6
20°	963.4	963.4	950.1	938.6	920.5	920.5	922.1	920.5	923.7	927.0	932.0
22.5°	1004.6	1001.4	996.5	986.5	966.7	950.1	950.1	943.6	948.5	950.1	960.0
25°	1057.5	1054.3	1042.7	1042.7	1022.8	1001.4	998.1	988.2	999.7	978.2	994.7
27.5°	1122.0	1118.7	1103.9	1097.2	1087.3	1060.9	1054.3	1055.9	1067.4	1036.0	1052.6
30°	1203.0	1199.7	1181.5	1163.3	1146.8	1118.7	1115.4	1113.8	1140.2	1103.9	1125.3
32.5°	1305.4	1305.4	1285.6	1260.8	1227.7	1189.8	1176.5	1178.2	1214.5	1174.9	1211.3
35°	1460.8	1440.9	1404.6	1366.6	1331.9	1287.3	1269.1	1265.8	1298.8	1259.2	1300.5
37.5°	1559.9	1546.7	1513.7	1485.5	1447.6	1404.6	1391.3	1396.3	1424.4	1366.6	1426.1
40°	1649.1	1647.5	1626.0	1607.8	1569.8	1526.9	1543.3	1609.5	1683.9	1571.5	1573.1
42.5°	1708.6	1711.9	1710.3	1711.9	1690.4	1645.8	1674.0	1766.4	1893.7	1827.6	1766.4
45°	1718.6	1730.1	1735.0	1768.1	1789.6	1763.2	1778.0	1875.5	2130.0	2232.5	1956.5
47.5°	1743.3	1754.9	1744.9	1784.6	1883.8	1882.1	1941.6	1978.0	2012.7	2029.2	2237.4
50°	1776.4	1797.8	1787.9	1821.0	1902.0	1948.2	1999.5	2045.7	2017.7	1913.5	1969.7
52.5°	1778.0	1802.8	1857.4	1890.4	1969.7	1959.8	1994.4	1969.7	2012.7	1905.2	1959.8
55°	1632.6	1637.5	1796.2	1963.0	2101.9	2073.8	2052.3	1996.2	2050.7	1916.8	1986.3
57.5°	1402.9	1419.4	1584.7	1865.6	2163.0	2187.8	2181.2	2176.2	2219.2	2040.8	2116.8
60°	1150.1	1169.9	1326.9	1657.4	2035.8	2100.2	2189.5	2244.0	2354.7	2283.6	2409.3
62.5°	717.2	732.0	905.5	1318.7	1796.2	1923.5	2054.0	2118.4	2278.7	2311.8	2524.9
65°	342.1	347.0	414.8	717.2	1305.4	1545.1	1738.4	1875.5	2072.2	2220.8	2508.4
67.5°	266.1	267.7	292.5	381.7	669.2	829.5	1049.3	1231.0	1440.9	1847.4	2204.4
70°	213.2	213.2	233.0	280.9	414.8	436.3	492.4	553.5	642.8	970.0	1259.2
72.5°	178.5	178.5	191.7	221.5	307.4	312.3	309.0	304.0	304.0	383.4	489.1
75°	150.4	148.7	157.0	176.8	228.0	234.7	231.4	219.7	206.5	206.5	233.0
77.5°	122.2	122.2	128.9	138.8	165.2	168.6	168.6	158.7	147.1	148.7	160.3
80°	95.9	95.9	100.8	107.4	115.7	114.1	114.1	104.1	95.9	94.2	100.8
82.5°	69.4	71.1	82.7	77.6	74.4	69.4	69.4	67.7	61.2	56.2	59.5
85°	21.5	23.1	39.7	46.2	38.1	31.4	29.8	24.8	26.4	21.5	24.8
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	0.0	1.6
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°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	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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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	682.4	685.8	679.1	679.1	670.9	675.9	667.6	669.2	660.9	664.3	664.3
5°	715.6	717.2	708.9	705.6	697.3	697.3	689.1	689.1	677.5	680.8	677.5
7.5°	746.9	746.9	738.7	732.0	723.7	720.5	710.5	705.6	695.7	694.1	689.1
10°	773.4	773.4	761.8	755.1	745.2	740.3	727.1	722.1	710.5	702.3	697.3
12.5°	806.4	803.1	789.8	783.3	766.7	765.1	745.2	741.9	725.4	720.5	712.2
15°	846.1	849.4	827.9	826.2	803.1	801.4	775.0	773.4	748.6	746.9	735.3
17.5°	889.0	895.6	877.5	875.7	847.7	847.7	816.3	814.7	781.6	780.0	765.1
20°	927.0	935.3	923.7	927.0	902.2	903.9	869.2	869.2	822.9	819.6	806.4
22.5°	961.7	978.2	968.3	986.5	961.7	973.2	927.0	935.3	880.8	874.1	854.3
25°	996.5	1017.9	1014.6	1044.3	1026.1	1046.0	998.1	1014.6	943.6	948.5	922.1
27.5°	1031.1	1059.2	1055.9	1098.9	1092.3	1131.9	1090.6	1108.8	1031.1	1036.0	1006.4
30°	1088.9	1120.3	1108.8	1153.4	1153.4	1217.8	1186.4	1214.5	1128.6	1138.5	1103.9
32.5°	1166.6	1203.0	1168.3	1226.1	1222.8	1307.1	1282.3	1330.2	1246.0	1259.2	1216.2
35°	1250.9	1308.8	1252.5	1316.9	1307.1	1394.7	1378.1	1455.8	1366.6	1381.4	1338.4
37.5°	1361.6	1431.0	1356.6	1412.8	1368.2	1469.1	1459.1	1564.8	1474.0	1512.0	1460.8
40°	1492.2	1546.7	1454.1	1502.1	1427.7	1531.8	1515.3	1660.7	1576.5	1637.5	1591.3
42.5°	1612.8	1650.7	1528.5	1588.0	1498.7	1604.5	1574.7	1750.0	1677.2	1771.4	1720.2
45°	1721.8	1764.8	1602.9	1668.9	1569.8	1685.5	1634.3	1835.9	1786.3	1928.4	1877.1
47.5°	1877.1	1814.4	1670.6	1756.5	1645.8	1773.1	1705.4	1936.7	1918.4	2120.1	2060.6
50°	1826.0	1867.3	1726.8	1816.0	1715.2	1870.6	1796.2	2057.3	2062.3	2328.2	2293.6
52.5°	1830.9	1900.3	1769.8	1893.7	1796.2	2006.0	1928.4	2202.7	2225.8	2529.9	2482.0
55°	1860.6	1963.0	1834.3	2001.1	1910.3	2156.4	2101.9	2359.6	2399.3	2719.9	2691.8
57.5°	1935.0	2077.1	1944.9	2163.0	2068.8	2328.2	2278.7	2521.6	2576.1	2909.9	2901.7
60°	2220.8	2389.4	2158.1	2399.3	2273.7	2523.3	2457.1	2691.8	2746.3	3091.7	3113.1
62.5°	2539.8	2832.2	2695.2	2946.3	2614.2	2867.0	2671.9	2901.7	2905.0	3286.7	3354.5
65°	2622.4	3071.9	3189.2	3656.8	3483.4	3742.8	3222.3	3375.9	3177.6	3642.0	3739.5
67.5°	2591.0	3141.3	3466.8	3993.9	4190.6	4643.4	4555.7	4502.9	4043.5	4377.3	4494.6
70°	1902.0	2485.3	3281.7	3817.1	4384.0	4681.3	5152.3	5200.2	5180.4	5134.1	5211.7
72.5°	865.8	1358.3	2220.8	2832.2	3767.5	3967.5	4649.9	4636.7	5337.3	5163.9	5286.1
75°	340.4	523.9	1057.5	1581.4	2605.9	2852.1	3625.4	3433.7	4307.9	4053.4	4314.5
77.5°	186.7	234.7	396.6	679.1	1422.7	1553.2	2219.2	1898.6	2671.9	2230.7	2318.4
80°	112.3	140.5	181.8	257.8	604.8	639.4	946.8	763.4	1092.3	829.5	804.8
82.5°	61.2	76.0	90.8	127.3	224.7	249.5	327.1	294.1	350.4	299.1	292.5
85°	24.8	33.0	34.7	51.2	74.4	85.9	104.1	112.3	137.2	125.6	122.2
87.5°	0.0	1.6	0.0	3.3	0.0	3.3	0.0	4.9	4.9	8.3	9.9
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°	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1	4.9
100°	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6	27.4
102.5°	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1	49.3
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6	71.0
107.5°	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1	93.3
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6	115.8



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1	138.5
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	162.0
117.5°	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1	184.5
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	209.1
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3	235.1
125°	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8	260.4
127.5°	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4	285.0
130°	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9	309.5
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5	334.1
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0	357.4
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5	379.3
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0	401.8
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5	423.1
145°	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0	444.6
147.5°	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4	464.0
150°	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8	480.6
152.5°	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2	497.8
155°	515.4	515.6	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6	516.2
157.5°	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9	530.9
160°	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2	542.8
162.5°	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3	550.8
165°	565.5	565.7	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6	561.0
167.5°	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8	572.6
170°	578.2	578.0	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0	580.0
172.5°	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0	581.6
175°	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0	581.6
177.5°	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2	587.8
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):**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	659.3	664.3	657.7	657.7	649.4	654.4	649.4	644.5	636.2	637.8	626.3
5°	670.9	674.2	665.9	662.7	657.7	656.0	646.1	636.2	624.6	624.6	611.4
7.5°	682.4	682.4	670.9	670.9	659.3	656.0	641.2	624.6	608.1	606.4	586.7
10°	689.1	687.4	672.6	672.6	656.0	654.4	636.2	611.4	588.3	581.6	553.5
12.5°	702.3	700.6	682.4	679.1	657.7	657.7	631.3	598.2	565.2	553.5	513.9
15°	718.8	720.5	699.0	694.1	669.2	667.6	631.3	581.6	537.0	518.8	471.0
17.5°	745.2	746.9	717.2	712.2	682.4	677.5	632.9	561.8	499.0	479.3	436.3
20°	780.0	775.0	735.3	733.7	694.1	689.1	631.3	532.0	461.0	441.2	403.1
22.5°	822.9	818.0	766.7	761.8	715.6	707.3	629.6	500.7	426.4	404.9	380.0
25°	882.4	875.7	813.0	806.4	748.6	735.3	627.9	467.6	396.6	380.0	365.2
27.5°	956.8	943.6	867.6	860.9	783.3	766.7	621.3	429.6	366.8	355.3	348.6
30°	1046.0	1034.4	936.9	927.0	829.5	808.0	614.7	395.0	345.3	340.4	335.4
32.5°	1151.7	1140.2	1021.2	1009.7	889.0	857.6	603.1	366.8	332.2	332.2	325.5
35°	1262.4	1252.5	1112.0	1103.9	955.1	913.8	588.3	342.1	320.6	320.6	313.9
37.5°	1361.6	1369.8	1211.3	1204.6	1021.2	970.0	571.7	325.5	310.7	307.4	300.7
40°	1469.1	1488.8	1303.8	1308.8	1090.6	1029.5	551.9	312.3	299.1	295.7	294.1
42.5°	1578.1	1616.1	1401.2	1419.4	1160.0	1090.6	537.0	304.0	294.1	287.6	285.9
45°	1713.5	1768.1	1521.8	1556.6	1240.9	1164.9	532.0	294.1	279.3	271.0	266.1
47.5°	1882.1	1954.9	1670.6	1710.3	1348.4	1254.2	542.0	290.8	269.3	259.4	249.5
50°	2082.1	2151.5	1847.4	1863.9	1469.1	1351.7	563.4	295.7	266.1	251.1	236.3
52.5°	2293.6	2346.4	2034.1	2015.9	1594.6	1447.6	588.3	297.5	257.8	243.0	224.7
55°	2511.7	2541.4	2207.6	2159.8	1708.6	1543.3	621.3	295.7	251.1	234.7	211.5
57.5°	2724.8	2734.8	2361.4	2315.0	1821.0	1657.4	662.7	290.8	241.2	224.7	200.0
60°	2933.1	2949.6	2531.5	2488.5	1943.3	1804.5	722.1	282.5	228.0	216.5	190.1
62.5°	3161.1	3215.6	2734.8	2741.4	2111.8	2034.1	834.5	272.6	214.8	201.6	175.1
65°	3471.8	3680.0	3070.2	3225.6	2435.6	2467.1	1049.3	244.6	196.6	180.1	161.9
67.5°	4250.1	4478.1	3884.9	3947.7	3194.2	3007.5	1184.8	208.2	173.5	161.9	150.4
70°	5225.0	5061.4	4640.0	4260.0	3637.0	3091.7	1042.7	175.1	153.6	147.1	140.5
72.5°	5492.7	4906.1	4559.1	3989.0	3362.7	2696.8	798.1	150.4	137.2	133.8	128.9
75°	4826.8	3977.4	3997.3	3169.4	2787.6	2055.6	545.3	128.9	119.0	117.3	115.7
77.5°	3086.8	2044.1	2488.5	1566.5	1609.5	951.8	266.1	107.4	102.5	102.5	99.1
80°	1097.2	680.8	770.1	494.1	449.5	302.4	143.7	85.9	82.7	84.3	82.7
82.5°	328.9	261.1	256.1	200.0	155.3	127.3	79.3	66.1	62.8	64.4	61.2
85°	132.2	102.5	85.9	66.1	54.5	49.6	43.0	44.6	39.7	43.0	38.1
87.5°	8.3	6.6	4.9	6.6	0.0	3.3	8.3	6.6	1.6	6.6	4.9
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°	4.9	4.6	4.3	4.1	4.1	4.1	4.1	4.6	4.9	5.1	5.6
100°	27.4	27.1	26.8	26.6	26.1	25.6	26.6	27.1	27.4	27.6	28.4
102.5°	49.3	49.6	49.9	50.1	49.6	49.1	50.1	49.6	49.3	49.1	49.6
105°	71.1	71.6	72.1	72.6	71.6	70.6	72.6	71.6	71.1	70.6	71.1
107.5°	93.3	93.6	93.9	94.1	93.6	93.1	94.1	93.6	93.3	93.1	93.3
110°	115.8	116.1	116.4	116.6	116.1	115.6	116.6	116.1	115.8	115.6	115.8



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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°	
112.5°	138.6	139.1	139.6	140.1	139.1	138.1	140.1	139.1	138.6	138.1	138.3	0°
115°	162.1	162.6	163.2	163.7	163.2	162.6	163.7	162.6	162.1	161.6	161.6	2.5°
117.5°	184.6	185.2	185.7	186.2	185.2	184.1	186.2	185.2	184.6	184.1	184.3	5°
120°	209.2	209.7	210.2	210.7	209.7	208.7	210.7	209.7	209.2	208.7	208.7	7.5°
122.5°	235.3	236.3	237.3	238.3	237.8	237.3	238.3	236.3	235.3	234.3	234.1	10°
125°	260.6	261.4	262.1	262.9	262.4	261.9	262.9	261.4	260.6	259.8	259.8	12.5°
127.5°	285.2	285.9	286.6	287.4	285.9	284.4	287.4	285.9	285.2	284.4	284.2	15°
130°	309.7	310.5	311.2	312.0	311.0	310.0	312.0	310.5	309.7	308.9	308.7	17.5°
132.5°	334.3	335.0	335.7	336.6	335.5	334.5	336.6	335.0	334.3	333.5	333.3	20°
135°	357.5	358.0	358.5	359.1	358.5	358.0	359.1	358.0	357.5	357.0	356.8	22.5°
137.5°	379.5	380.5	381.6	382.6	381.6	380.5	382.6	380.5	379.5	378.5	378.3	25°
140°	402.0	403.0	404.1	405.1	404.1	403.0	405.1	403.0	402.0	401.0	400.5	27.5°
142.5°	423.3	424.0	424.7	425.5	425.0	424.5	425.5	424.0	423.3	422.5	422.3	30°
145°	444.8	445.5	446.2	447.0	446.0	445.0	447.0	445.5	444.8	444.0	443.8	32.5°
147.5°	464.2	464.9	465.6	466.5	464.9	463.4	466.5	464.9	464.2	463.4	463.2	35°
150°	480.8	481.8	482.8	483.9	482.3	480.8	483.9	481.8	480.8	479.8	479.8	37.5°
152.5°	498.0	498.7	499.4	500.2	498.7	497.2	500.2	498.7	498.0	497.2	497.2	40°
155°	516.4	517.1	517.8	518.6	517.6	516.6	518.6	517.1	516.4	515.6	515.4	42.5°
157.5°	531.1	532.4	533.8	535.0	533.5	531.9	535.0	532.4	531.1	529.9	529.7	45°
160°	543.0	543.7	544.4	545.2	544.2	543.2	545.2	543.7	543.0	542.2	542.2	47.5°
162.5°	550.9	551.4	551.9	552.4	550.9	549.3	552.4	551.4	550.9	550.3	550.9	50°
165°	561.1	561.6	562.1	562.6	561.6	560.6	562.6	561.6	561.1	560.6	561.1	52.5°
167.5°	572.9	573.9	574.9	575.9	574.9	573.9	575.9	573.9	572.9	571.8	571.6	55°
170°	580.2	581.5	582.9	584.1	583.1	582.1	584.1	581.5	580.2	579.0	578.5	57.5°
172.5°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	580.8	60°
175°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	581.5	62.5°
177.5°	588.0	588.7	589.4	590.2	588.7	587.2	590.2	588.7	588.0	587.2	587.2	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  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	
654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	112.5°	138.6
634.5	623.0	627.9	623.0	626.3	616.3	619.7	611.4	611.4	609.8	601.5	115°	161.6
613.1	601.5	599.9	588.3	589.9	576.7	575.0	560.2	560.2	547.0	522.2	117.5°	184.6
583.3	565.2	563.4	540.3	538.7	520.5	513.9	497.4	495.7	480.9	466.0	120°	208.7
545.3	517.2	512.3	482.5	484.2	464.3	462.7	451.1	451.1	444.5	444.5	122.5°	233.7
502.4	471.0	467.6	444.5	446.1	432.9	434.5	428.0	431.3	434.5	446.1	125°	259.8
462.7	437.9	434.5	419.7	421.4	418.1	423.0	423.0	428.0	436.3	456.0	127.5°	283.9
429.6	408.2	409.8	403.1	409.8	408.2	418.1	416.4	426.4	436.3	461.0	130°	308.4
399.9	388.3	393.3	391.6	399.9	399.9	408.2	409.8	418.1	431.3	459.4	132.5°	333.0
380.0	376.8	381.7	381.7	388.3	389.9	398.2	403.1	408.2	421.4	446.1	135°	356.5
368.5	366.8	371.8	373.5	378.4	380.0	388.3	388.3	396.6	404.9	418.1	137.5°	378.0
352.0	348.6	355.3	355.3	361.9	360.2	370.1	366.8	375.1	378.4	381.7	140°	400.0
340.4	335.4	340.4	338.7	343.7	338.7	343.7	338.7	343.7	343.7	338.7	142.5°	422.0
328.9	323.9	325.5	319.0	323.9	317.2	319.0	312.3	315.6	312.3	313.9	145°	443.4
317.2	310.7	310.7	302.4	302.4	294.1	297.5	290.8	297.5	302.4	300.7	147.5°	462.9
300.7	295.7	295.7	289.2	292.5	289.2	295.7	292.5	294.1	287.6	276.0	150°	479.8
290.8	294.1	292.5	297.5	294.1	289.2	284.2	274.3	272.6	269.3	262.7	152.5°	497.2
276.0	279.3	271.0	277.6	272.6	274.3	271.0	266.1	262.7	259.4	252.9	155°	515.1
254.5	254.5	247.9	257.8	252.9	262.7	259.4	259.4	256.1	251.1	246.2	157.5°	529.4
236.3	237.9	231.4	239.6	236.3	249.5	247.9	252.9	252.9	249.5	236.3	160°	542.2
224.7	221.5	216.5	224.7	223.1	234.7	236.3	246.2	244.6	246.2	234.7	162.5°	551.4
214.8	208.2	203.3	208.2	208.2	218.1	221.5	233.0	234.7	237.9	231.4	165°	561.6
203.3	195.0	191.7	195.0	195.0	204.9	209.9	218.1	223.1	233.0	229.7	167.5°	571.3
193.3	181.8	178.5	181.8	183.4	193.3	198.2	206.5	213.2	226.4	224.7	170°	578.0
181.8	171.9	168.6	173.5	175.1	185.1	190.1	198.2	203.3	218.1	218.1	172.5°	580.5
168.6	160.3	160.3	161.9	165.2	175.1	178.5	190.1	191.7	209.9	211.5	175°	582.1
157.0	152.0	152.0	153.6	157.0	165.2	166.9	178.5	180.1	198.2	203.3	177.5°	587.2
147.1	143.7	143.7	145.5	147.1	153.6	155.3	166.9	170.2	186.7	195.0	180°	589.2
137.2	133.8	132.2	132.2	137.2	142.1	145.5	157.0	158.7	173.5	183.4		
125.6	122.2	122.2	120.6	125.6	128.9	135.5	142.1	145.5	160.3	166.9		
114.1	110.7	110.7	109.0	112.3	119.0	120.6	127.3	128.9	142.1	148.7		
99.1	95.9	95.9	95.9	99.1	100.8	102.5	109.0	112.3	124.0	130.5		
82.7	79.3	81.0	79.3	84.3	77.6	82.7	89.2	92.6	99.1	95.9		
62.8	57.8	59.5	59.5	61.2	56.2	59.5	62.8	66.1	71.1	69.4		
39.7	34.7	38.1	34.7	38.1	33.0	36.3	36.3	39.7	36.3	34.7		
8.3	3.3	8.3	3.3	9.9	0.0	4.9	0.0	3.3	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	1.0	1.0	1.0	1.0		
6.1	6.6	7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1		
29.2	29.9	30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5		
50.1	50.6	51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0		
71.6	72.1	72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5		
93.6	93.9	94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0		
116.1	116.4	116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5		

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 ISS-AF-800-LED-E1-T2-ULG

REPORT NUMBER: P227534  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
138.9	139.1	139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	0°	654.4	654.4
161.6	161.6	161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	2.5°	593.2	586.7
184.9	185.2	184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	5°	508.9	497.4
208.7	208.7	208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	7.5°	457.8	454.4
233.4	233.2	233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	10°	447.8	452.8
259.8	259.8	259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	12.5°	459.4	467.6
283.6	283.4	283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	15°	474.2	489.1
308.1	307.9	307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	17.5°	485.8	505.6
332.7	332.5	332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	20°	487.4	507.3
356.2	356.0	356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	22.5°	472.6	485.8
377.7	377.5	377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	25°	434.5	441.2
399.5	399.0	399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	27.5°	386.7	385.0
421.7	421.5	421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	30°	337.1	333.8
443.1	442.9	443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	32.5°	319.0	307.4
462.6	462.4	462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	35°	290.8	287.6
479.8	479.8	480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	37.5°	280.9	309.0
497.2	497.2	497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	40°	269.3	304.0
514.7	514.5	514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	42.5°	259.4	279.3
529.1	528.9	529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	45°	241.2	249.5
542.2	542.2	542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	47.5°	233.0	229.7
551.9	552.4	552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	50°	226.4	226.4
562.1	562.6	563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	52.5°	221.5	218.1
571.0	570.8	571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	55°	214.8	211.5
577.5	576.9	577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	57.5°	209.9	201.6
580.2	580.0	580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	60°	204.9	196.6
582.6	583.1	583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	62.5°	201.6	191.7
587.2	587.2	588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	65°	196.6	186.7
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	190.1	176.8
										70°	176.8	165.2
										72.5°	163.6	150.4
										75°	143.7	132.2
										77.5°	120.6	107.4
										80°	90.8	82.7
										82.5°	66.1	56.2
										85°	29.8	21.5
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.1	2.0
										100°	14.3	10.2
										102.5°	38.9	32.7
										105°	62.4	57.3
										107.5°	85.9	81.8
										110°	108.4	105.4



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175°	180°
654.4	654.4
583.3	581.6
494.1	490.8
454.4	452.8
454.4	454.4
474.2	474.2
497.4	497.4
513.9	515.6
518.8	520.5
494.1	494.1
446.1	446.1
383.4	389.9
327.1	333.8
290.8	295.7
279.3	280.9
307.4	309.0
302.4	305.7
259.4	261.1
233.0	233.0
223.1	221.5
223.1	219.7
229.7	228.0
219.7	219.7
214.8	214.8
209.9	209.9
208.2	206.5
208.2	204.9
204.9	200.0
193.3	180.1
165.2	153.6
133.8	132.2
104.1	105.8
79.3	79.3
57.8	47.9
16.6	16.6
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.2	8.2
28.6	28.6
55.2	55.2
78.8	79.8
104.3	103.3

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
112.5°	132.0	128.9	126.8
115°	154.5	152.4	150.4
117.5°	178.0	175.9	173.9
120°	202.5	200.5	199.5
122.5°	228.1	226.1	225.0
125°	253.7	252.7	251.6
127.5°	278.2	276.2	275.2
130°	300.7	299.7	298.7
132.5°	325.3	324.3	321.2
135°	348.8	346.8	344.7
137.5°	372.4	371.3	368.3
140°	394.9	393.8	391.8
142.5°	416.3	417.4	415.3
145°	437.8	437.8	435.8
147.5°	458.3	457.3	454.2
150°	475.7	474.6	472.6
152.5°	493.1	494.1	491.0
155°	512.5	513.5	511.5
157.5°	527.8	528.9	526.8
160°	541.1	541.1	539.1
162.5°	550.3	551.4	548.3
165°	560.6	561.6	559.6
167.5°	570.8	571.8	568.8
170°	578.0	579.0	575.9
172.5°	580.0	582.1	579.0
175°	582.1	583.1	582.1
177.5°	587.2	588.2	586.2
180°	589.2	589.2	589.2



12-ULG

<u>180°</u>
126.8
149.4
172.9
197.4
224.0
249.6
273.1
296.7
320.2
343.7
367.2
390.8
413.3
434.8
454.2
471.6
490.0
510.5
524.8
537.0
547.3
558.5
567.7
574.9
578.0
580.0
585.1
589.2

(END OF REPORT)