

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: P227749

Luminaire Tested: **ISC-AF-1200-LED-E1-T3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227749
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: ISC-AF-1200-LED-E1-T3-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7248.2 lumens
Efficiency: N/A
Efficacy: 87.6 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 - G2

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

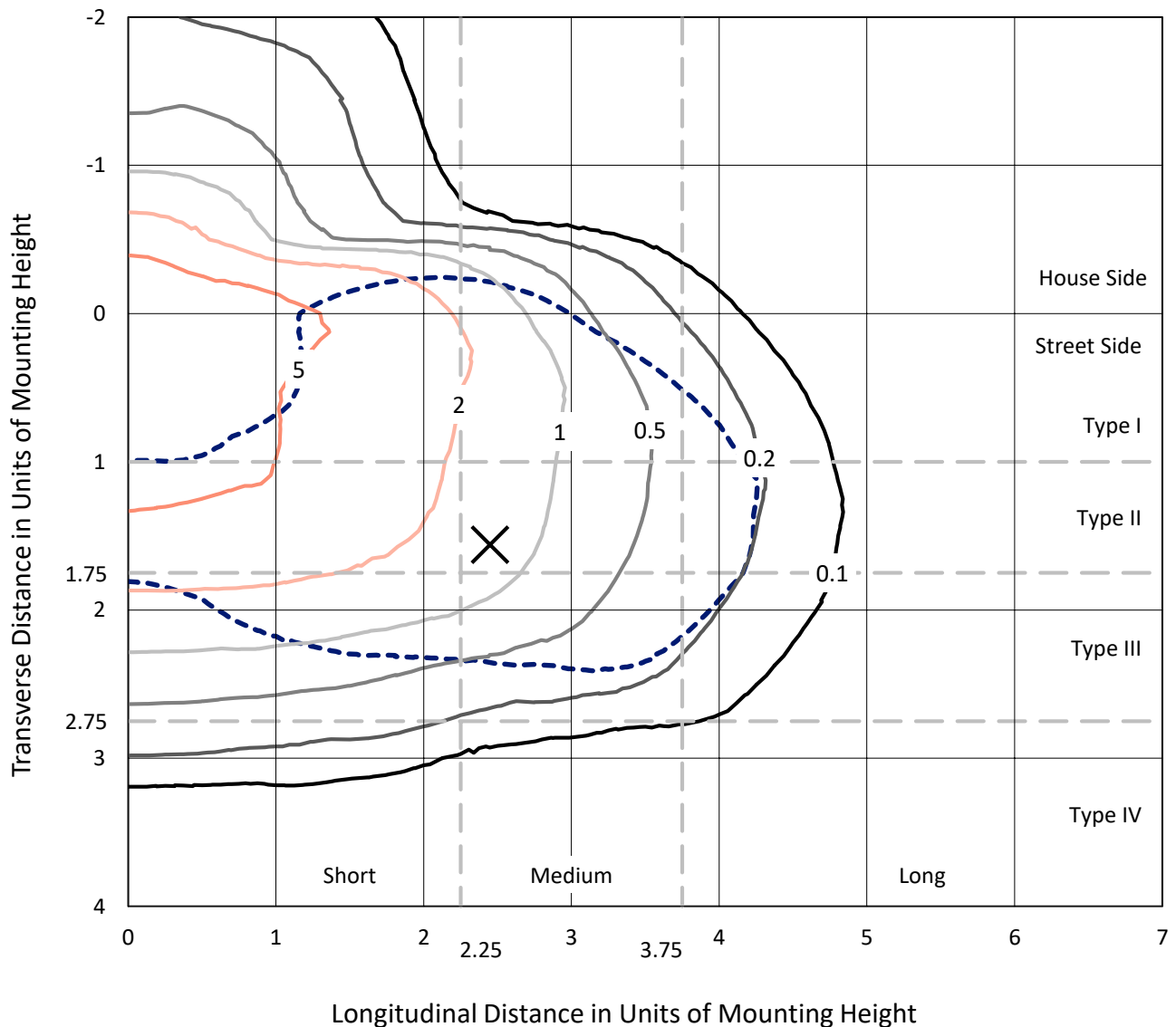


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

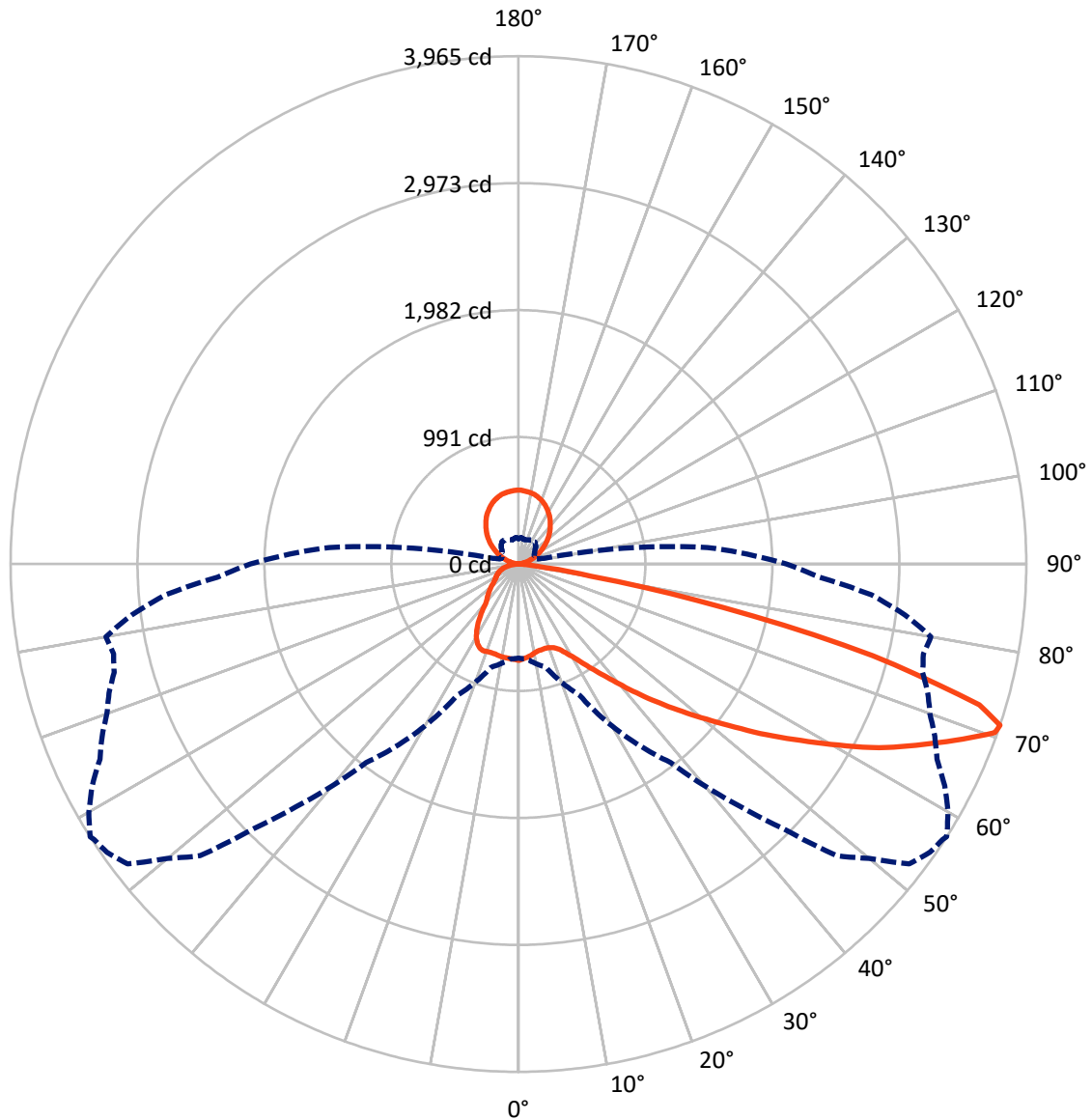


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Non-Cutoff

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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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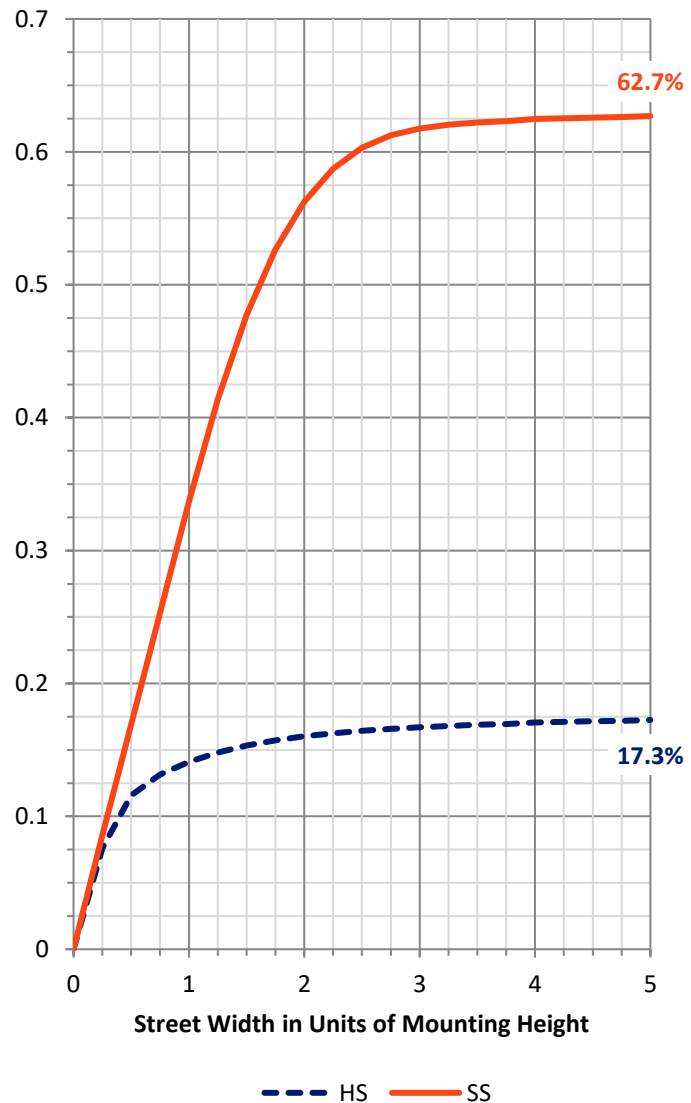
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1267.5	713.1	1980.6
	% Fixture	17.5	9.8	27.3
Street Side	Lumens	4554.5	713.1	5267.6
	% Fixture	62.8	9.8	72.7
Total	Lumens	5822.0	1426.2	7248.2
	% Fixture	80.3	19.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.0
10°-20°	204.0	2.8
20°-30°	338.6	4.7
30°-40°	539.0	7.4
40°-50°	875.7	12.1
50°-60°	1312.9	18.1
60°-70°	1566.3	21.6
70°-80°	845.9	11.7
80°-90°	68.9	0.9
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.1
120°-130°	223.9	3.1
130°-140°	265.6	3.7
140°-150°	269.3	3.7
150°-160°	231.1	3.2
160°-170°	155.1	2.1
170°-180°	54.3	0.7
0°-90°	5822.0	80.3
0°-180°	7248.2	100.0



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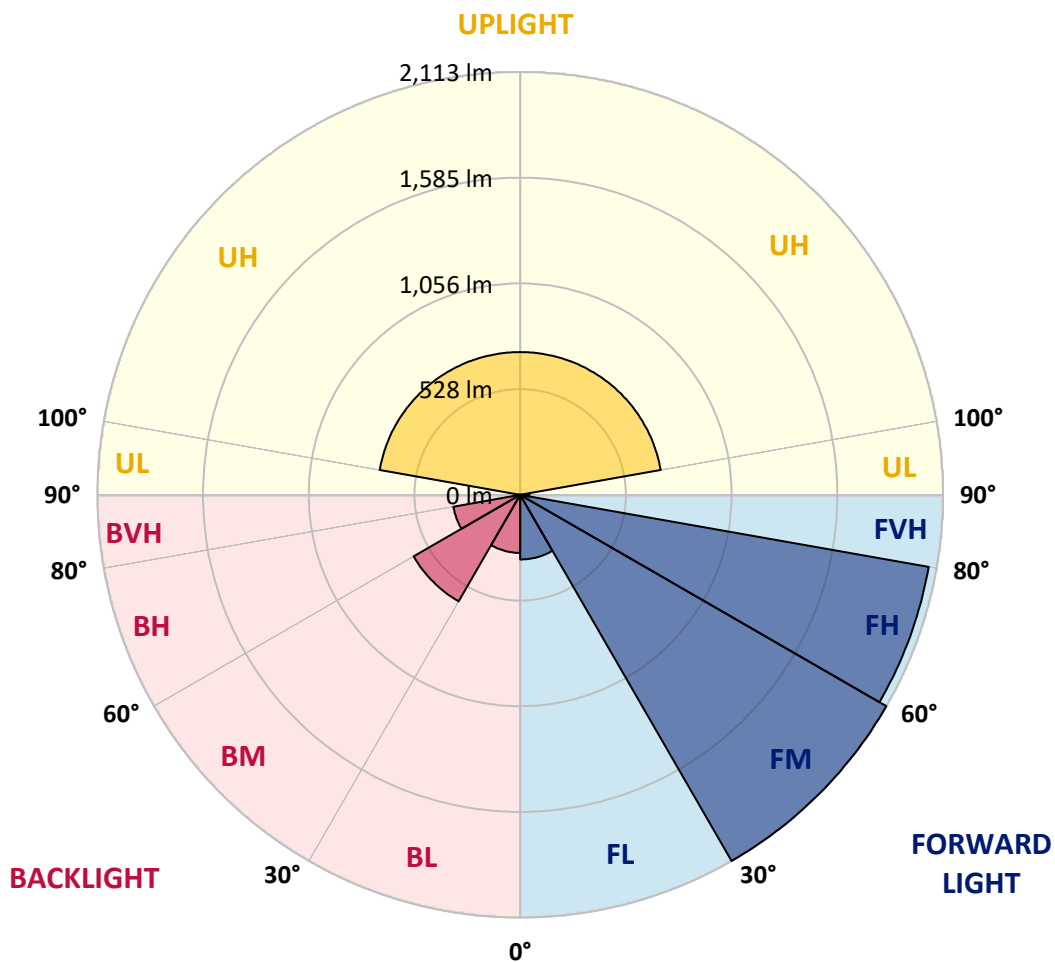
CATALOG NUMBER: ISC-AF-1200-LED-E1-T3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.0	4.5			
FM	(30°-60°)	2113.0	29.2			
FH	(60°-80°)	2073.2	28.6			G2/5000
FVH	(80°-90°)	45.4	0.6			G1/100
BL	(0°-30°)	290.3	4.0	B1/500		
BM	(30°-60°)	614.6	8.5	B1/1000		
BH	(60°-80°)	339.0	4.7	B1/500		G1/500
BVH	(80°-90°)	23.5	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	9.8		U4/1000	

BUG Rating: B1-U5-G2

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°	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1
2.5°	752.1	750.2	748.3	748.3	748.3	746.3	740.6	742.5	748.3	744.4	750.2
5°	750.2	746.3	744.4	744.4	744.4	738.6	736.7	734.8	746.3	736.7	744.4
7.5°	729.0	729.0	725.2	729.0	732.9	727.1	723.3	725.2	734.8	725.2	734.8
10°	713.6	709.8	707.9	707.9	711.7	704.0	700.2	704.0	715.6	704.0	717.5
12.5°	707.9	709.8	704.0	704.0	702.1	692.5	692.5	692.5	702.1	692.5	704.0
15°	717.5	715.6	709.8	705.9	700.2	692.5	690.6	692.5	700.2	688.6	702.1
17.5°	731.0	731.0	721.3	711.7	705.9	698.3	698.3	694.4	700.2	692.5	702.1
20°	765.6	759.8	746.3	731.0	715.6	711.7	704.0	704.0	707.9	700.2	705.9
22.5°	825.2	819.4	796.4	767.5	742.5	732.9	729.0	727.1	723.3	719.4	719.4
25°	904.1	894.5	867.5	832.9	790.6	782.9	775.2	769.4	756.0	756.0	746.3
27.5°	988.7	979.1	950.2	911.8	859.8	848.3	838.7	831.0	807.9	807.9	790.6
30°	1084.9	1073.3	1038.7	996.4	936.8	932.9	919.5	907.9	877.1	875.2	852.1
32.5°	1196.5	1181.1	1146.4	1090.7	1027.2	1029.1	1007.9	1000.3	959.9	961.8	931.0
35°	1323.4	1306.1	1271.5	1198.4	1133.0	1138.8	1119.5	1106.1	1056.0	1056.0	1023.3
37.5°	1458.1	1458.1	1413.8	1329.2	1250.3	1263.8	1240.7	1227.2	1177.2	1184.9	1133.0
40°	1608.1	1617.7	1569.6	1473.5	1392.7	1398.4	1381.1	1365.7	1306.1	1319.6	1263.8
42.5°	1765.8	1783.1	1740.8	1640.8	1550.4	1569.6	1540.8	1525.4	1461.9	1490.8	1425.4
45°	1994.7	1998.6	1919.7	1823.5	1748.5	1765.8	1725.4	1719.7	1640.8	1671.6	1606.2
47.5°	2139.0	2129.4	2071.7	2014.0	1969.7	2004.4	1967.8	1958.2	1867.8	1888.9	1796.6
50°	2237.1	2242.9	2198.6	2192.9	2200.6	2266.0	2260.2	2241.0	2133.2	2117.8	2002.4
52.5°	2325.6	2300.6	2292.9	2346.8	2429.5	2506.4	2537.2	2512.2	2394.8	2352.5	2241.0
55°	2310.2	2273.7	2314.0	2444.9	2608.4	2727.6	2731.5	2714.2	2608.4	2591.0	2469.9
57.5°	2206.3	2214.0	2296.7	2483.3	2760.3	2883.4	2904.6	2883.4	2796.9	2812.3	2712.2
60°	2062.1	2077.5	2208.3	2448.7	2881.5	2987.3	2996.9	3021.9	2964.2	3004.6	2935.4
62.5°	1846.6	1867.8	2035.1	2362.1	2796.9	2954.6	3043.1	3100.8	3089.2	3181.6	3145.0
65°	1696.6	1696.6	1860.1	2262.1	2714.2	2921.9	3054.6	3162.3	3177.7	3323.9	3310.5
67.5°	1417.7	1427.3	1567.7	1983.2	2614.1	2848.8	3048.9	3231.6	3323.9	3554.8	3566.3
70°	981.0	988.7	1081.0	1415.7	2112.1	2312.1	2606.4	2904.6	3181.6	3529.7	3710.6
71°	734.8	744.4	834.8	1129.1	1788.9	1954.3	2260.2	2569.9	2918.0	3370.1	3574.0
72.5°	359.7	365.5	454.0	725.2	1244.5	1456.1	1633.1	1929.3	2298.7	2816.1	3104.6
75°	167.4	169.3	188.5	261.6	475.1	565.5	644.4	834.8	1063.7	1517.7	1867.8
77.5°	123.1	123.1	134.6	171.2	246.2	250.1	246.2	252.0	303.9	434.7	654.0
80°	90.4	90.4	98.1	115.4	163.5	163.5	157.7	159.7	153.9	159.7	180.8
82.5°	59.6	59.6	63.5	69.2	100.0	100.0	96.2	96.2	92.3	90.4	98.1
85°	34.6	36.5	38.5	32.7	42.3	40.4	36.5	40.4	38.5	34.6	42.3
87.5°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.9	0.0	1.9
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°	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°	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1
2.5°	742.5	748.3	748.3	740.6	746.3	740.6	744.4	738.6	744.4	734.8	746.3
5°	736.7	742.5	742.5	731.0	742.5	731.0	740.6	727.1	740.6	725.2	740.6
7.5°	721.3	734.8	734.8	719.4	732.9	721.3	732.9	719.4	731.0	713.6	732.9
10°	704.0	717.5	719.4	704.0	719.4	705.9	723.3	705.9	723.3	704.0	725.2
12.5°	692.5	707.9	711.7	694.4	713.6	696.3	717.5	698.3	717.5	696.3	721.3
15°	690.6	704.0	707.9	692.5	709.8	690.6	715.6	692.5	717.5	694.4	723.3
17.5°	692.5	704.0	707.9	690.6	707.9	692.5	713.6	694.4	717.5	696.3	723.3
20°	698.3	705.9	705.9	696.3	709.8	696.3	713.6	694.4	719.4	700.2	725.2
22.5°	715.6	717.5	717.5	709.8	717.5	707.9	721.3	707.9	725.2	709.8	732.9
25°	744.4	742.5	738.6	736.7	738.6	732.9	740.6	731.0	748.3	734.8	757.9
27.5°	794.4	786.7	782.9	782.9	781.0	782.9	782.9	779.0	786.7	782.9	798.3
30°	856.0	842.5	836.8	842.5	834.8	842.5	840.6	838.7	846.4	842.5	856.0
32.5°	936.8	913.7	909.8	921.4	906.0	919.5	907.9	913.7	919.5	923.3	931.0
35°	1031.0	1004.1	1000.3	1011.8	994.5	1013.7	1000.3	1007.9	1011.8	1021.4	1027.2
37.5°	1142.6	1109.9	1104.1	1119.5	1096.4	1117.6	1098.4	1121.4	1115.7	1129.1	1134.9
40°	1277.2	1238.8	1225.3	1246.5	1219.5	1236.9	1217.6	1242.6	1236.9	1263.8	1269.6
42.5°	1442.7	1386.9	1373.4	1394.6	1354.2	1360.0	1344.6	1373.4	1369.6	1406.1	1411.9
45°	1613.9	1546.5	1527.3	1548.5	1502.3	1513.8	1490.8	1521.5	1519.6	1548.5	1571.6
47.5°	1804.3	1721.6	1696.6	1719.7	1663.9	1677.3	1654.3	1687.0	1688.9	1721.6	1744.7
50°	2002.4	1915.9	1883.2	1904.3	1852.4	1862.0	1838.9	1879.3	1877.4	1921.6	1939.0
52.5°	2217.9	2129.4	2104.4	2114.0	2052.4	2064.0	2044.8	2094.8	2083.2	2110.2	2144.8
55°	2456.4	2354.4	2325.6	2354.4	2281.3	2296.7	2271.7	2317.9	2298.7	2333.3	2342.9
57.5°	2700.7	2600.7	2577.6	2598.7	2529.5	2541.0	2508.3	2546.8	2531.4	2554.5	2569.9
60°	2960.4	2870.0	2846.9	2870.0	2802.6	2804.6	2748.8	2789.2	2766.1	2794.9	2789.2
62.5°	3208.5	3131.6	3125.8	3158.5	3073.9	3064.2	2996.9	3025.8	2993.1	3012.3	2989.2
65°	3420.1	3375.9	3383.6	3410.5	3335.5	3312.4	3235.4	3250.8	3202.7	3202.7	3173.9
67.5°	3697.1	3649.0	3649.0	3672.1	3577.8	3518.2	3412.4	3398.9	3320.1	3304.7	3237.4
70°	3927.9	3941.4	3926.0	3945.2	3833.7	3712.5	3572.1	3504.7	3400.9	3350.9	3272.0
71°	3845.2	3922.2	3949.1	3964.5	3872.1	3751.0	3604.8	3518.2	3418.2	3350.9	3266.2
72.5°	3470.1	3656.7	3762.5	3762.5	3774.0	3697.1	3556.7	3462.4	3348.9	3260.4	3181.6
75°	2431.4	2735.3	2871.9	2856.5	2956.5	2991.1	3002.7	2962.3	2898.8	2771.9	2716.1
77.5°	1083.0	1427.3	1633.1	1635.0	1742.8	1837.0	1912.0	1990.9	1962.0	1900.5	1896.6
80°	246.2	446.3	571.3	577.1	675.2	761.7	813.7	892.5	902.2	813.7	763.7
82.5°	105.8	125.0	142.3	140.4	173.1	207.7	246.2	267.4	257.8	213.5	202.0
85°	44.2	57.7	61.6	57.7	71.2	78.9	92.3	94.3	109.6	98.1	103.9
87.5°	0.0	1.9	1.9	0.0	3.8	0.0	3.8	1.9	9.6	3.8	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.5	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	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.5	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	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.2	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°	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1
2.5°	738.6	748.3	738.6	748.3	742.5	748.3	746.3	748.3	738.6	748.3	736.7
5°	725.2	740.6	727.1	738.6	727.1	740.6	740.6	740.6	727.1	742.5	729.0
7.5°	713.6	731.0	713.6	731.0	719.4	732.9	732.9	738.6	723.3	740.6	721.3
10°	702.1	723.3	702.1	727.1	707.9	729.0	731.0	734.8	713.6	736.7	717.5
12.5°	696.3	723.3	698.3	723.3	700.2	729.0	731.0	734.8	711.7	740.6	715.6
15°	696.3	725.2	698.3	725.2	700.2	729.0	732.9	736.7	711.7	742.5	715.6
17.5°	696.3	725.2	702.1	727.1	704.0	731.0	734.8	738.6	715.6	742.5	719.4
20°	702.1	729.0	705.9	732.9	709.8	736.7	738.6	744.4	719.4	744.4	723.3
22.5°	715.6	738.6	719.4	744.4	727.1	748.3	750.2	756.0	736.7	757.9	740.6
25°	738.6	763.7	748.3	767.5	757.9	775.2	779.0	779.0	771.3	784.8	779.0
27.5°	786.7	806.0	794.4	811.7	806.0	819.4	819.4	821.4	827.1	831.0	836.8
30°	848.3	861.8	857.9	867.5	869.5	877.1	877.1	888.7	911.8	888.7	886.8
32.5°	931.0	938.7	940.6	944.5	952.2	957.9	965.6	979.1	998.3	944.5	927.2
35°	1033.0	1034.9	1040.6	1046.4	1059.9	1063.7	1088.7	1079.1	1079.1	994.5	957.9
37.5°	1144.5	1144.5	1159.9	1159.9	1192.6	1194.5	1219.5	1169.5	1140.7	1031.0	977.2
40°	1284.9	1283.0	1300.3	1304.2	1348.4	1350.3	1346.5	1236.9	1175.3	1040.6	967.6
42.5°	1433.1	1438.8	1461.9	1469.6	1502.3	1513.8	1465.8	1283.0	1190.7	1034.9	934.9
45°	1594.6	1606.2	1635.0	1656.2	1690.8	1677.3	1561.9	1304.2	1173.4	1000.3	871.4
47.5°	1771.6	1783.1	1806.2	1846.6	1862.0	1846.6	1640.8	1311.9	1146.4	946.4	779.0
50°	1950.5	1969.7	2002.4	2060.1	2067.8	2029.4	1737.0	1340.7	1125.3	890.6	673.2
52.5°	2152.5	2171.7	2210.2	2306.4	2287.1	2208.3	1850.5	1394.6	1131.1	856.0	582.8
55°	2366.0	2392.9	2467.9	2562.2	2519.9	2396.8	1975.5	1473.5	1154.1	819.4	482.8
57.5°	2591.0	2619.9	2718.0	2829.6	2746.9	2581.4	2102.5	1535.0	1165.7	744.4	373.2
60°	2814.2	2854.6	2981.5	3073.9	2945.0	2739.2	2215.9	1575.4	1134.9	602.1	288.5
62.5°	3018.1	3083.5	3225.8	3275.8	3070.0	2839.2	2277.5	1546.5	1009.9	415.5	232.8
65°	3162.3	3247.0	3339.3	3333.5	3046.9	2806.5	2231.3	1413.8	752.1	275.1	198.1
67.5°	3223.9	3302.8	3323.9	3225.8	2881.5	2662.2	2065.9	1138.8	432.8	205.8	173.1
70°	3247.0	3314.3	3195.0	2958.4	2558.3	2308.3	1688.9	725.2	236.6	167.4	150.0
71°	3237.4	3270.1	3043.1	2766.1	2352.5	2090.9	1481.1	552.1	202.0	155.8	142.3
72.5°	3106.6	3060.4	2710.3	2402.5	1994.7	1729.3	1152.2	348.2	165.4	140.4	132.7
75°	2539.1	2331.4	1994.7	1704.3	1358.0	1086.8	625.2	178.9	132.7	121.2	115.4
77.5°	1660.0	1479.2	1202.2	977.2	742.5	563.6	255.8	123.1	105.8	101.9	100.0
80°	592.5	475.1	359.7	315.5	238.5	196.2	125.0	94.3	82.7	84.6	82.7
82.5°	167.4	153.9	132.7	123.1	107.7	105.8	80.8	71.2	65.4	69.2	67.3
85°	82.7	71.2	51.9	50.0	38.5	44.2	40.4	48.1	42.3	44.2	40.4
87.5°	5.8	7.7	1.9	5.8	0.0	5.8	7.7	9.6	1.9	7.7	5.8
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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REPORT NUMBER: P
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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°
752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	110°	113.5
750.2	742.5	752.1	742.5	752.1	746.3	752.1	746.3	752.1	756.0	756.0	112.5°	135.5
746.3	732.9	750.2	740.6	752.1	742.5	750.2	744.4	754.0	757.9	761.7	115°	158.0
744.4	731.0	748.3	734.8	752.1	738.6	750.2	742.5	754.0	757.9	765.6	117.5°	180.5
742.5	725.2	748.3	729.0	750.2	736.7	750.2	738.6	752.1	756.0	757.9	120°	204.0
742.5	723.3	748.3	727.1	750.2	731.0	748.3	731.0	750.2	748.3	742.5	122.5°	228.5
744.4	719.4	748.3	723.3	748.3	725.2	746.3	723.3	742.5	736.7	732.9	125°	254.0
744.4	719.4	746.3	721.3	744.4	723.3	740.6	719.4	736.7	734.8	729.0	127.5°	277.5
748.3	723.3	746.3	729.0	746.3	725.2	738.6	719.4	732.9	721.3	698.3	130°	301.5
759.8	742.5	759.8	742.5	750.2	731.0	736.7	713.6	711.7	692.5	655.9	132.5°	325.5
786.7	779.0	775.2	754.0	748.3	723.3	715.6	688.6	679.0	650.2	600.2	135°	348.5
821.4	804.1	781.0	756.0	731.0	700.2	679.0	657.9	636.7	600.2	536.7	137.5°	369.5
844.4	819.4	771.3	736.7	690.6	665.6	629.0	605.9	575.1	529.0	467.4	140°	391.0
859.8	821.4	748.3	707.9	646.3	613.6	565.5	540.5	496.3	452.0	407.8	142.5°	412.5
863.7	813.7	717.5	673.2	592.5	555.9	492.4	465.5	423.2	392.4	375.1	145°	433.5
848.3	786.7	669.4	611.7	523.2	480.9	421.3	402.0	377.0	365.5	357.8	147.5°	452.5
817.5	734.8	594.4	527.1	436.6	403.9	373.2	373.2	359.7	353.9	340.5	150°	469.0
761.7	657.9	498.2	432.8	371.2	365.5	348.2	355.9	346.2	342.4	323.2	152.5°	486.0
675.2	548.2	402.0	363.6	334.7	338.5	327.0	334.7	328.9	327.0	303.9	155°	503.5
563.6	436.6	338.5	325.1	305.8	311.6	302.0	311.6	305.8	307.8	290.5	157.5°	517.5
450.1	353.9	300.1	292.4	278.9	282.8	277.0	286.6	284.7	292.4	282.8	160°	530.0
359.7	302.0	267.4	261.6	253.9	255.8	253.9	263.5	265.5	280.8	280.8	162.5°	539.0
298.2	259.7	240.4	238.5	230.8	232.8	234.7	244.3	252.0	271.2	280.8	165°	549.0
255.8	232.8	219.3	217.4	213.5	215.4	219.3	230.8	238.5	263.5	284.7	167.5°	558.5
225.1	211.6	202.0	202.0	198.1	202.0	205.8	217.4	227.0	255.8	277.0	170°	565.0
202.0	192.4	186.6	188.5	186.6	190.4	194.3	205.8	217.4	244.3	265.5	172.5°	567.5
180.8	175.0	171.2	173.1	173.1	178.9	182.7	194.3	203.9	228.9	255.8	175°	569.0
163.5	159.7	157.7	159.7	161.6	167.4	173.1	180.8	188.5	211.6	242.4	177.5°	574.0
150.0	146.2	146.2	146.2	148.1	153.9	161.6	165.4	173.1	198.1	227.0	180°	576.0
142.3	140.4	140.4	140.4	142.3	148.1	155.8	159.7	167.4	192.4	219.3		
132.7	132.7	134.6	132.7	136.6	138.5	146.2	150.0	159.7	184.7	209.7		
117.3	117.3	119.3	119.3	123.1	123.1	128.9	132.7	144.3	165.4	188.5		
103.9	103.9	107.7	105.8	105.8	101.9	109.6	113.5	123.1	144.3	167.4		
88.5	86.6	90.4	84.6	82.7	78.9	84.6	90.4	105.8	119.3	123.1		
69.2	63.5	65.4	59.6	59.6	55.8	61.6	63.5	73.1	86.6	94.3		
42.3	34.6	38.5	32.7	36.5	32.7	34.6	36.5	44.2	53.9	51.9		
9.6	5.8	7.7	1.9	5.8	0.0	5.8	1.9	5.8	1.9	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	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		

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 ISC-AF-1200-LED-E1-T3-7030-ULG

REPORT NUMBER: P227749
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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°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	752.1	752.1
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	759.8	757.9
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	769.4	769.4
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	771.3	775.2
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	757.9	754.0
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	736.7	732.9
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	734.8	732.9
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	721.3	711.7
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	682.9	665.6
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	629.0	604.0
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	563.6	529.0
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	492.4	457.8
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	436.6	409.7
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	396.3	380.9
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	363.6	353.9
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	342.4	327.0
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	321.2	302.0
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	302.0	282.8
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	282.8	269.3
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	273.1	261.6
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	269.3	257.8
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	273.1	263.5
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	280.8	275.1
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	273.1	263.5
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	255.8	240.4
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	244.3	228.9
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	234.7	223.1
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	225.1	213.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	213.5	202.0
										71°	207.7	194.3
										72.5°	198.1	182.7
										75°	178.9	163.5
										77.5°	148.1	130.8
										80°	113.5	101.9
										82.5°	84.6	75.0
										85°	44.2	34.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	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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tinued):

175°	180°
752.1	752.1
759.8	757.9
771.3	773.3
779.0	777.1
757.9	754.0
736.7	736.7
734.8	734.8
707.9	705.9
661.7	655.9
596.3	590.5
515.5	507.8
444.3	444.3
396.3	396.3
371.2	373.2
348.2	350.1
313.5	313.5
284.7	284.7
271.2	269.3
259.7	257.8
252.0	250.1
244.3	244.3
238.5	238.5
238.5	234.7
240.4	234.7
236.6	232.8
236.6	234.7
240.4	236.6
240.4	232.8
219.3	205.8
207.7	196.2
186.6	178.9
159.7	157.7
125.0	123.1
101.9	96.2
73.1	63.5
28.9	28.9
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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