

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: P227720

Luminaire Tested: **ISS-AF-1000-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-T3
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5911.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

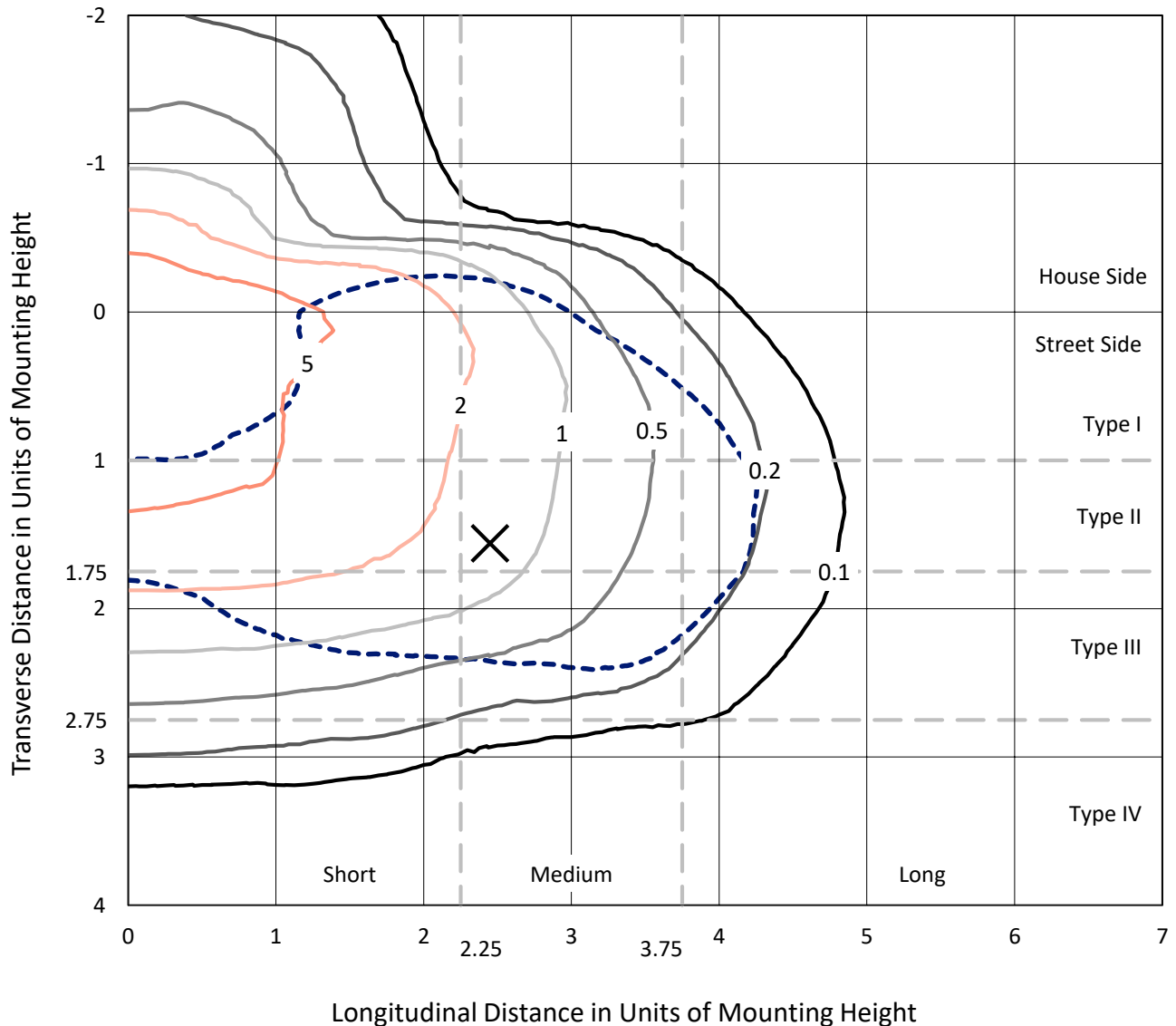
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

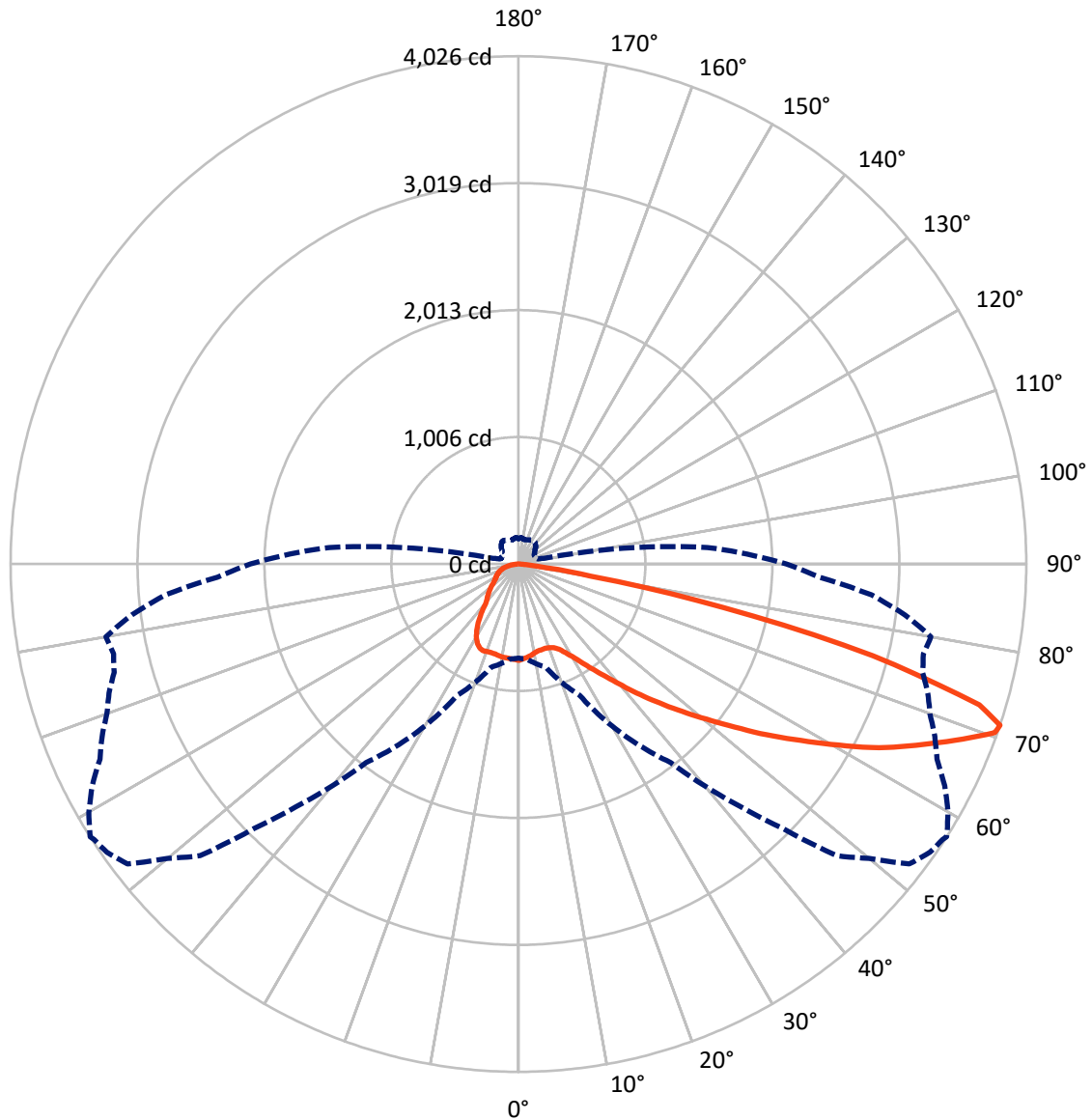
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - Semi-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	1287.0	0.0	1287.0
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	4624.6	0.0	4624.6
	% Fixture	78.2	0.0	78.2
Total	Lumens	5911.6	0.0	5911.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.2
10°-20°	207.1	3.5
20°-30°	343.8	5.8
30°-40°	547.3	9.3
40°-50°	889.2	15.0
50°-60°	1333.1	22.6
60°-70°	1590.4	26.9
70°-80°	859.0	14.5
80°-90°	69.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5911.6	100.0
0°-180°	5911.6	100.0



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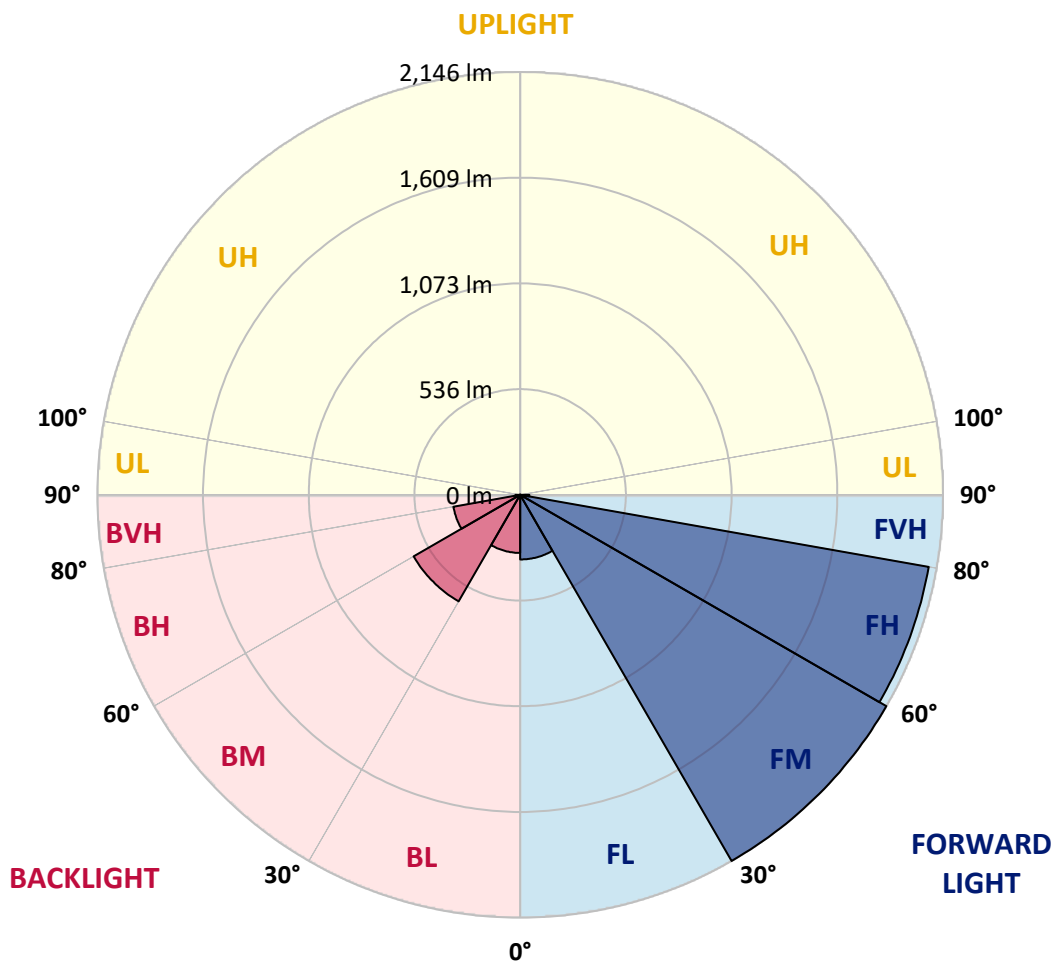
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.0	5.5			
FM	(30°-60°)	2145.5	36.3			
FH	(60°-80°)	2105.1	35.6			G2/5000
FVH	(80°-90°)	46.1	0.8			G1/100
BL	(0°-30°)	294.8	5.0	B1/500		
BM	(30°-60°)	624.1	10.6	B1/1000		
BH	(60°-80°)	344.3	5.8	B1/500		G1/500
BVH	(80°-90°)	23.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-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°	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7
2.5°	763.7	761.8	759.7	759.7	759.7	757.8	752.0	753.9	759.7	755.9	761.8
5°	761.8	757.8	755.9	755.9	755.9	750.0	748.1	746.1	757.8	748.1	755.9
7.5°	740.2	740.2	736.3	740.2	744.2	738.3	734.4	736.3	746.1	736.3	746.1
10°	724.7	720.8	718.7	718.7	722.7	714.8	711.0	714.8	726.6	714.8	728.5
12.5°	718.7	720.8	714.8	714.8	712.9	703.2	703.2	703.2	712.9	703.2	714.8
15°	728.5	726.6	720.8	716.8	711.0	703.2	701.2	703.2	711.0	699.3	712.9
17.5°	742.3	742.3	732.4	722.7	716.8	709.0	709.0	705.1	711.0	703.2	712.9
20°	777.3	771.5	757.8	742.3	726.6	722.7	714.8	714.8	718.7	711.0	716.8
22.5°	837.9	832.1	808.6	779.3	753.9	744.2	740.2	738.3	734.4	730.5	730.5
25°	918.0	908.3	880.9	845.8	802.7	794.9	787.2	781.2	767.6	767.6	757.8
27.5°	1003.9	994.2	964.8	925.8	873.1	861.3	851.6	843.7	820.3	820.3	802.7
30°	1101.6	1089.9	1054.8	1011.7	951.2	947.3	933.6	921.9	890.7	888.7	865.2
32.5°	1214.9	1199.2	1164.1	1107.4	1043.0	1044.9	1023.5	1015.7	974.7	976.6	945.3
35°	1343.7	1326.3	1291.1	1216.8	1150.4	1156.2	1136.7	1123.1	1072.3	1072.3	1039.1
37.5°	1480.5	1480.5	1435.6	1349.7	1269.6	1283.2	1259.8	1246.2	1195.3	1203.2	1150.4
40°	1632.8	1642.7	1593.8	1496.2	1414.1	1420.0	1402.4	1386.7	1326.3	1339.9	1283.2
42.5°	1793.0	1810.6	1767.7	1666.1	1574.2	1593.8	1564.5	1548.8	1484.4	1513.8	1447.3
45°	2025.4	2029.3	1949.2	1851.6	1775.4	1793.0	1752.0	1746.2	1666.1	1697.3	1630.9
47.5°	2171.9	2162.2	2103.6	2045.0	2000.1	2035.3	1998.1	1988.3	1896.6	1918.0	1824.2
50°	2271.6	2277.4	2232.5	2226.7	2234.4	2300.8	2295.0	2275.5	2166.1	2150.4	2033.2
52.5°	2361.4	2336.0	2328.2	2382.9	2466.8	2545.0	2576.2	2550.8	2431.8	2388.7	2275.5
55°	2345.7	2308.7	2349.7	2482.5	2648.5	2769.6	2773.5	2755.9	2648.5	2630.9	2507.9
57.5°	2240.3	2248.1	2332.1	2521.6	2802.8	2927.8	2949.3	2927.8	2839.9	2855.6	2754.0
60°	2093.8	2109.4	2242.2	2486.4	2925.8	3033.3	3043.1	3068.4	3009.8	3050.8	2980.6
62.5°	1875.1	1896.6	2066.5	2398.5	2839.9	3000.1	3089.9	3148.5	3136.8	3230.6	3193.4
65°	1722.8	1722.8	1888.8	2296.9	2755.9	2966.9	3101.7	3211.0	3226.7	3375.1	3361.4
67.5°	1439.5	1449.2	1591.8	2013.7	2654.4	2892.7	3095.8	3281.3	3375.1	3609.5	3621.2
70°	996.1	1003.9	1097.7	1437.6	2144.6	2347.7	2646.6	2949.3	3230.6	3584.1	3767.7
71°	746.1	755.9	847.7	1146.5	1816.5	1984.4	2295.0	2609.4	2963.0	3422.0	3629.0
72.5°	365.3	371.1	460.9	736.3	1263.8	1478.6	1658.2	1959.1	2334.1	2859.5	3152.4
75°	169.9	171.9	191.4	265.7	482.4	574.3	654.3	847.7	1080.1	1541.1	1896.6
77.5°	125.0	125.0	136.8	173.8	250.0	253.9	250.0	255.8	308.6	441.4	664.1
80°	91.8	91.8	99.6	117.2	166.0	166.0	160.2	162.1	156.2	162.1	183.6
82.5°	60.6	60.6	64.4	70.3	101.6	101.6	97.7	97.7	93.7	91.8	99.6
85°	35.2	37.1	39.1	33.2	43.0	41.0	37.1	41.0	39.1	35.2	43.0
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



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7
2.5°	753.9	759.7	759.7	752.0	757.8	752.0	755.9	750.0	755.9	746.1	757.8
5°	748.1	753.9	753.9	742.3	753.9	742.3	752.0	738.3	752.0	736.3	752.0
7.5°	732.4	746.1	746.1	730.5	744.2	732.4	744.2	730.5	742.3	724.7	744.2
10°	714.8	728.5	730.5	714.8	730.5	716.8	734.4	716.8	734.4	714.8	736.3
12.5°	703.2	718.7	722.7	705.1	724.7	707.1	728.5	709.0	728.5	707.1	732.4
15°	701.2	714.8	718.7	703.2	720.8	701.2	726.6	703.2	728.5	705.1	734.4
17.5°	703.2	714.8	718.7	701.2	718.7	703.2	724.7	705.1	728.5	707.1	734.4
20°	709.0	716.8	716.8	707.1	720.8	707.1	724.7	705.1	730.5	711.0	736.3
22.5°	726.6	728.5	728.5	720.8	728.5	718.7	732.4	718.7	736.3	720.8	744.2
25°	755.9	753.9	750.0	748.1	750.0	744.2	752.0	742.3	759.7	746.1	769.6
27.5°	806.7	798.8	794.9	794.9	793.0	794.9	794.9	791.0	798.8	794.9	810.6
30°	869.2	855.5	849.7	855.5	847.7	855.5	853.6	851.6	859.4	855.5	869.2
32.5°	951.2	927.7	923.8	935.6	919.9	933.6	921.9	927.7	933.6	937.5	945.3
35°	1046.9	1019.6	1015.7	1027.3	1009.8	1029.3	1015.7	1023.5	1027.3	1037.2	1043.0
37.5°	1160.2	1127.0	1121.2	1136.7	1113.3	1134.8	1115.2	1138.7	1132.8	1146.5	1152.4
40°	1296.9	1257.8	1244.2	1265.7	1238.3	1255.9	1236.3	1261.7	1255.9	1283.2	1289.1
42.5°	1464.9	1408.2	1394.6	1416.1	1375.1	1380.9	1365.2	1394.6	1390.7	1427.7	1433.7
45°	1638.8	1570.3	1550.8	1572.3	1525.4	1537.2	1513.8	1545.0	1543.0	1572.3	1595.7
47.5°	1832.1	1748.1	1722.8	1746.2	1689.5	1703.2	1679.7	1712.9	1714.9	1748.1	1771.5
50°	2033.2	1945.3	1912.2	1933.7	1880.9	1890.7	1867.2	1908.2	1906.3	1951.2	1968.8
52.5°	2252.0	2162.2	2136.7	2146.6	2084.1	2095.7	2076.2	2127.0	2115.3	2142.7	2177.8
55°	2494.3	2390.7	2361.4	2390.7	2316.5	2332.1	2306.8	2353.6	2334.1	2369.3	2379.0
57.5°	2742.2	2640.7	2617.2	2638.7	2568.4	2580.2	2546.9	2586.0	2570.4	2593.8	2609.4
60°	3005.9	2914.2	2890.8	2914.2	2845.7	2847.7	2791.1	2832.1	2808.7	2838.0	2832.1
62.5°	3257.9	3179.7	3173.9	3207.2	3121.2	3111.4	3043.1	3072.3	3039.2	3058.7	3035.2
65°	3472.7	3427.8	3435.7	3463.0	3386.8	3363.4	3285.2	3300.9	3252.1	3252.1	3222.7
67.5°	3754.0	3705.2	3705.2	3728.7	3632.9	3572.3	3464.9	3451.2	3371.2	3355.6	3287.3
70°	3988.4	4002.1	3986.4	4006.0	3892.7	3769.7	3627.1	3558.7	3453.2	3402.4	3322.3
71°	3904.4	3982.6	4009.9	4025.5	3931.7	3808.8	3660.2	3572.3	3470.8	3402.4	3316.5
72.5°	3523.6	3713.0	3820.4	3820.4	3832.2	3754.0	3611.4	3515.7	3400.5	3310.7	3230.6
75°	2468.8	2777.4	2916.1	2900.5	3002.1	3037.2	3048.9	3007.9	2943.4	2814.5	2757.9
77.5°	1099.7	1449.2	1658.2	1660.2	1769.6	1865.2	1941.5	2021.6	1992.2	1929.7	1925.8
80°	250.0	453.2	580.1	585.9	685.6	773.5	826.2	906.2	916.1	826.2	775.4
82.5°	107.4	126.9	144.5	142.6	175.7	210.9	250.0	271.5	261.8	216.8	205.1
85°	44.9	58.6	62.5	58.6	72.2	80.1	93.7	95.7	111.3	99.6	105.5
87.5°	0.0	1.9	1.9	0.0	3.9	0.0	3.9	1.9	9.7	3.9	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7
2.5°	750.0	759.7	750.0	759.7	753.9	759.7	757.8	759.7	750.0	759.7	748.1
5°	736.3	752.0	738.3	750.0	738.3	752.0	752.0	752.0	738.3	753.9	740.2
7.5°	724.7	742.3	724.7	742.3	730.5	744.2	744.2	750.0	734.4	752.0	732.4
10°	712.9	734.4	712.9	738.3	718.7	740.2	742.3	746.1	724.7	748.1	728.5
12.5°	707.1	734.4	709.0	734.4	711.0	740.2	742.3	746.1	722.7	752.0	726.6
15°	707.1	736.3	709.0	736.3	711.0	740.2	744.2	748.1	722.7	753.9	726.6
17.5°	707.1	736.3	712.9	738.3	714.8	742.3	746.1	750.0	726.6	753.9	730.5
20°	712.9	740.2	716.8	744.2	720.8	748.1	750.0	755.9	730.5	755.9	734.4
22.5°	726.6	750.0	730.5	755.9	738.3	759.7	761.8	767.6	748.1	769.6	752.0
25°	750.0	775.4	759.7	779.3	769.6	787.2	791.0	791.0	783.3	796.9	791.0
27.5°	798.8	818.4	806.7	824.2	818.4	832.1	832.1	834.0	839.8	843.7	849.7
30°	861.3	875.0	871.1	880.9	882.8	890.7	890.7	902.3	925.8	902.3	900.4
32.5°	945.3	953.2	955.1	959.0	966.8	972.7	980.5	994.2	1013.7	959.0	941.4
35°	1048.8	1050.8	1056.7	1062.5	1076.2	1080.1	1105.5	1095.8	1095.8	1009.8	972.7
37.5°	1162.2	1162.2	1177.7	1177.7	1211.0	1212.9	1238.3	1187.5	1158.2	1046.9	992.3
40°	1304.8	1302.7	1320.3	1324.2	1369.2	1371.2	1367.3	1255.9	1193.4	1056.7	982.4
42.5°	1455.1	1461.0	1484.4	1492.3	1525.4	1537.2	1488.3	1302.7	1209.0	1050.8	949.2
45°	1619.2	1630.9	1660.2	1681.7	1716.8	1703.2	1586.0	1324.2	1191.4	1015.7	884.8
47.5°	1798.9	1810.6	1834.0	1875.1	1890.7	1875.1	1666.1	1332.1	1164.1	961.0	791.0
50°	1980.5	2000.1	2033.2	2091.8	2099.7	2060.6	1763.8	1361.3	1142.6	904.3	683.6
52.5°	2185.6	2205.2	2244.3	2341.8	2322.3	2242.2	1879.0	1416.1	1148.5	869.2	591.8
55°	2402.4	2429.7	2505.9	2601.7	2558.7	2433.7	2005.9	1496.2	1171.9	832.1	490.2
57.5°	2630.9	2660.2	2759.8	2873.2	2789.2	2621.2	2134.8	1558.7	1183.7	755.9	378.9
60°	2857.5	2898.5	3027.4	3121.2	2990.3	2781.3	2250.1	1599.7	1152.4	611.3	293.0
62.5°	3064.6	3130.9	3275.5	3326.2	3117.2	2882.9	2312.6	1570.3	1025.4	421.9	236.3
65°	3211.0	3297.0	3390.7	3384.8	3093.8	2849.7	2265.7	1435.6	763.7	279.3	201.2
67.5°	3273.5	3353.6	3375.1	3275.5	2925.8	2703.2	2097.8	1156.2	439.5	209.0	175.7
70°	3297.0	3365.3	3244.2	3004.0	2597.7	2343.8	1714.9	736.3	240.3	169.9	152.3
71°	3287.3	3320.4	3089.9	2808.7	2388.7	2123.1	1503.9	560.6	205.1	158.3	144.5
72.5°	3154.4	3107.5	2752.0	2439.5	2025.4	1755.9	1169.9	353.5	168.0	142.6	134.7
75°	2578.2	2367.2	2025.4	1730.5	1378.9	1103.6	634.7	181.7	134.7	123.1	117.2
77.5°	1685.6	1502.0	1220.7	992.3	753.9	572.2	259.7	125.0	107.4	103.5	101.6
80°	601.6	482.4	365.3	320.3	242.2	199.3	126.9	95.7	84.0	85.9	84.0
82.5°	169.9	156.2	134.7	125.0	109.4	107.4	82.0	72.2	66.4	70.3	68.3
85°	84.0	72.2	52.8	50.7	39.1	44.9	41.0	48.8	43.0	44.9	41.0
87.5°	5.8	7.8	1.9	5.8	0.0	5.8	7.8	9.7	1.9	7.8	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



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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7	763.7
2.5°	761.8	753.9	763.7	753.9	763.7	757.8	763.7	757.8	763.7	767.6	767.6
5°	757.8	744.2	761.8	752.0	763.7	753.9	761.8	755.9	765.7	769.6	773.5
7.5°	755.9	742.3	759.7	746.1	763.7	750.0	761.8	753.9	765.7	769.6	777.3
10°	753.9	736.3	759.7	740.2	761.8	748.1	761.8	750.0	763.7	767.6	769.6
12.5°	753.9	734.4	759.7	738.3	761.8	742.3	759.7	742.3	761.8	759.7	753.9
15°	755.9	730.5	759.7	734.4	759.7	736.3	757.8	734.4	753.9	748.1	744.2
17.5°	755.9	730.5	757.8	732.4	755.9	734.4	752.0	730.5	748.1	746.1	740.2
20°	759.7	734.4	757.8	740.2	757.8	736.3	750.0	730.5	744.2	732.4	709.0
22.5°	771.5	753.9	771.5	753.9	761.8	742.3	748.1	724.7	722.7	703.2	666.0
25°	798.8	791.0	787.2	765.7	759.7	734.4	726.6	699.3	689.5	660.2	609.4
27.5°	834.0	816.4	793.0	767.6	742.3	711.0	689.5	668.0	646.5	609.4	544.9
30°	857.4	832.1	783.3	748.1	701.2	675.8	638.7	615.2	584.0	537.2	474.6
32.5°	873.1	834.0	759.7	718.7	656.2	623.1	574.3	548.8	503.9	459.0	414.1
35°	877.0	826.2	728.5	683.6	601.6	564.5	500.0	472.7	429.7	398.4	380.8
37.5°	861.3	798.8	679.8	621.1	531.2	488.3	427.7	408.3	382.8	371.1	363.2
40°	830.1	746.1	603.5	535.2	443.3	410.2	378.9	378.9	365.3	359.4	345.8
42.5°	773.5	668.0	505.8	439.5	377.0	371.1	353.5	361.3	351.6	347.7	328.2
45°	685.6	556.7	408.3	369.2	339.8	343.7	332.0	339.8	334.0	332.0	308.6
47.5°	572.2	443.3	343.7	330.1	310.6	316.4	306.7	316.4	310.6	312.5	294.9
50°	457.1	359.4	304.7	296.9	283.3	287.1	281.2	291.0	289.1	296.9	287.1
52.5°	365.3	306.7	271.5	265.7	257.8	259.7	257.8	267.6	269.5	285.2	285.2
55°	302.8	263.7	244.2	242.2	234.4	236.3	238.2	248.1	255.8	275.4	285.2
57.5°	259.7	236.3	222.7	220.8	216.8	218.7	222.7	234.4	242.2	267.6	289.1
60°	228.5	214.8	205.1	205.1	201.2	205.1	209.0	220.8	230.5	259.7	281.2
62.5°	205.1	195.3	189.5	191.4	189.5	193.3	197.2	209.0	220.8	248.1	269.5
65°	183.6	177.8	173.8	175.7	175.7	181.7	185.6	197.2	207.0	232.4	259.7
67.5°	166.0	162.1	160.2	162.1	164.1	169.9	175.7	183.6	191.4	214.8	246.1
70°	152.3	148.4	148.4	148.4	150.4	156.2	164.1	168.0	175.7	201.2	230.5
71°	144.5	142.6	142.6	142.6	144.5	150.4	158.3	162.1	169.9	195.3	222.7
72.5°	134.7	134.7	136.8	134.7	138.7	140.7	148.4	152.3	162.1	187.5	212.9
75°	119.2	119.2	121.1	121.1	125.0	125.0	130.8	134.7	146.5	168.0	191.4
77.5°	105.5	105.5	109.4	107.4	107.4	103.5	111.3	115.3	125.0	146.5	169.9
80°	89.8	87.9	91.8	85.9	84.0	80.1	85.9	91.8	107.4	121.1	125.0
82.5°	70.3	64.4	66.4	60.6	60.6	56.7	62.5	64.4	74.3	87.9	95.7
85°	43.0	35.2	39.1	33.2	37.1	33.2	35.2	37.1	44.9	54.7	52.8
87.5°	9.7	5.8	7.8	1.9	5.8	0.0	5.8	1.9	5.8	1.9	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



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CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	763.7	763.7	763.7	763.7
2.5°	771.5	769.6	771.5	769.6
5°	781.2	781.2	783.3	785.2
7.5°	783.3	787.2	791.0	789.1
10°	769.6	765.7	769.6	765.7
12.5°	748.1	744.2	748.1	748.1
15°	746.1	744.2	746.1	746.1
17.5°	732.4	722.7	718.7	716.8
20°	693.4	675.8	671.9	666.0
22.5°	638.7	613.3	605.5	599.7
25°	572.2	537.2	523.4	515.7
27.5°	500.0	464.8	451.2	451.2
30°	443.3	416.0	402.3	402.3
32.5°	402.3	386.8	377.0	378.9
35°	369.2	359.4	353.5	355.5
37.5°	347.7	332.0	318.3	318.3
40°	326.2	306.7	289.1	289.1
42.5°	306.7	287.1	275.4	273.4
45°	287.1	273.4	263.7	261.8
47.5°	277.3	265.7	255.8	253.9
50°	273.4	261.8	248.1	248.1
52.5°	277.3	267.6	242.2	242.2
55°	285.2	279.3	242.2	238.2
57.5°	277.3	267.6	244.2	238.2
60°	259.7	244.2	240.3	236.3
62.5°	248.1	232.4	240.3	238.2
65°	238.2	226.6	244.2	240.3
67.5°	228.5	216.8	244.2	236.3
70°	216.8	205.1	222.7	209.0
71°	210.9	197.2	210.9	199.3
72.5°	201.2	185.6	189.5	181.7
75°	181.7	166.0	162.1	160.2
77.5°	150.4	132.8	126.9	125.0
80°	115.3	103.5	103.5	97.7
82.5°	85.9	76.2	74.3	64.4
85°	44.9	35.2	29.3	29.3
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)