

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: P227719

Luminaire Tested: **ISS-AF-1200-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227719
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-1200-LED-E1-T3-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5822 lumens
Efficiency: N/A
Efficacy: 88.2 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

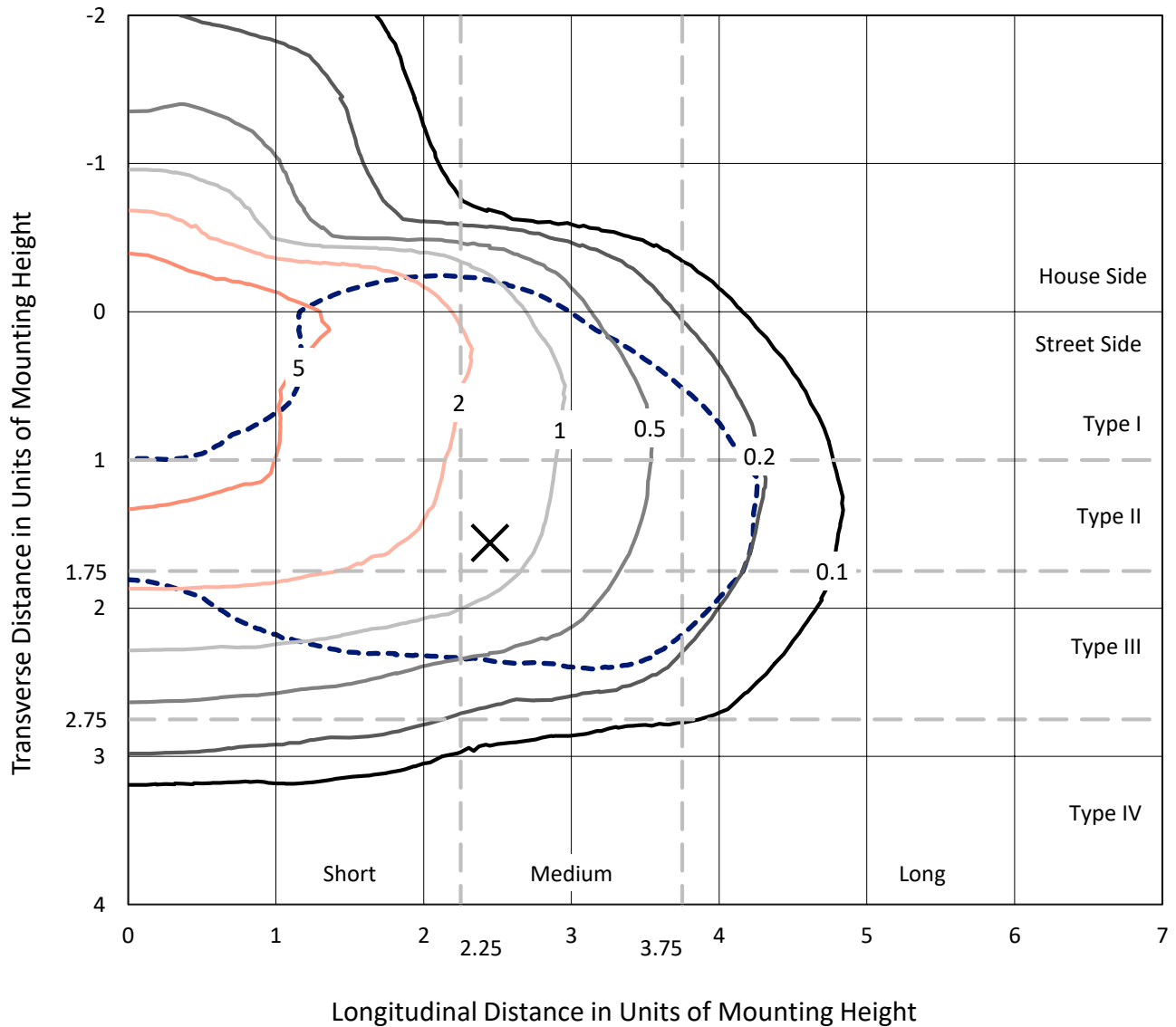
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

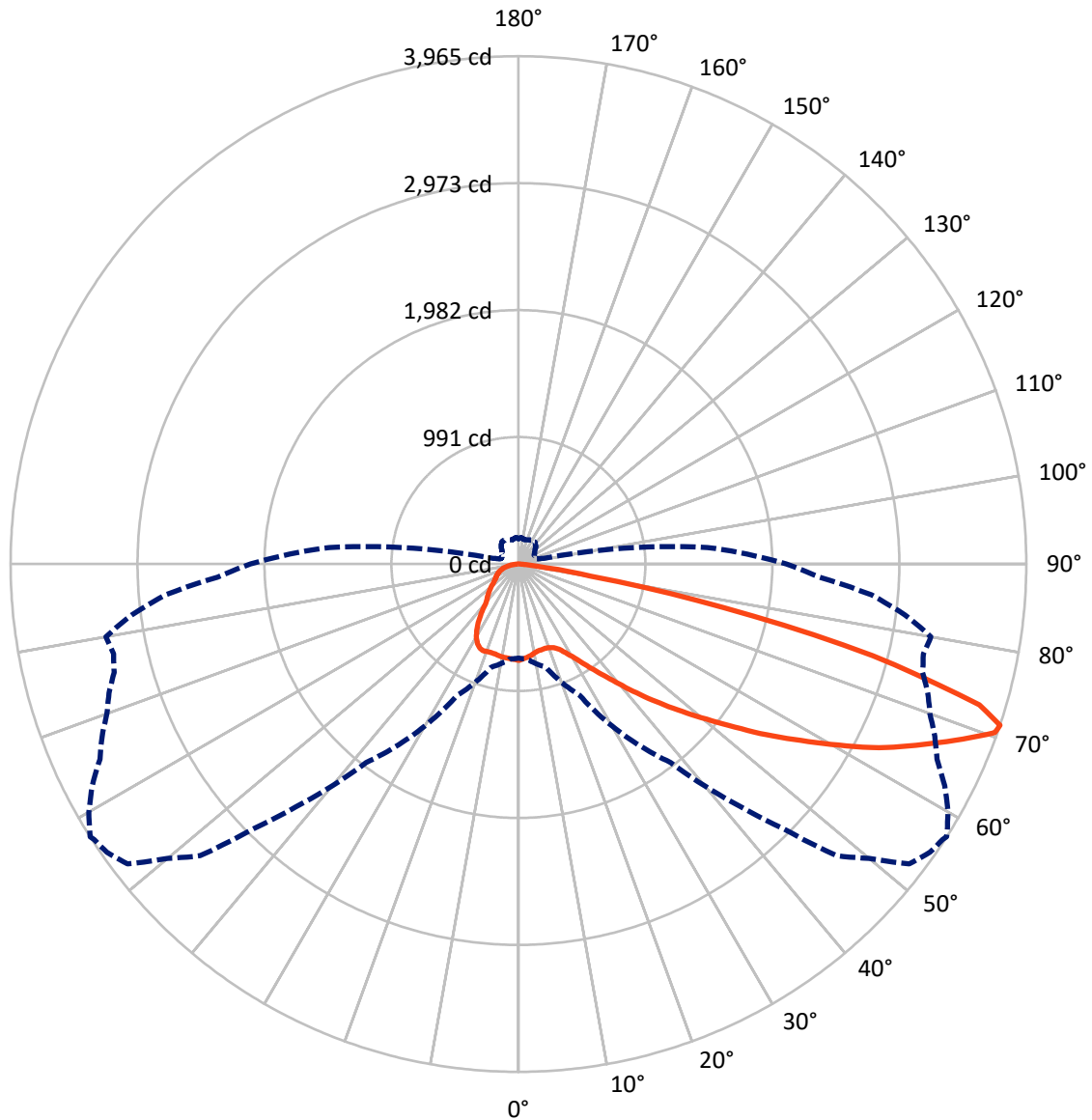
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - 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	1267.5	0.0	1267.5
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	4554.5	0.0	4554.5
	% Fixture	78.2	0.0	78.2
Total	Lumens	5822.0	0.0	5822.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.2
10°-20°	204.0	3.5
20°-30°	338.6	5.8
30°-40°	539.0	9.3
40°-50°	875.7	15.0
50°-60°	1312.9	22.6
60°-70°	1566.3	26.9
70°-80°	845.9	14.5
80°-90°	68.9	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°	5822.0	100.0
0°-180°	5822.0	100.0



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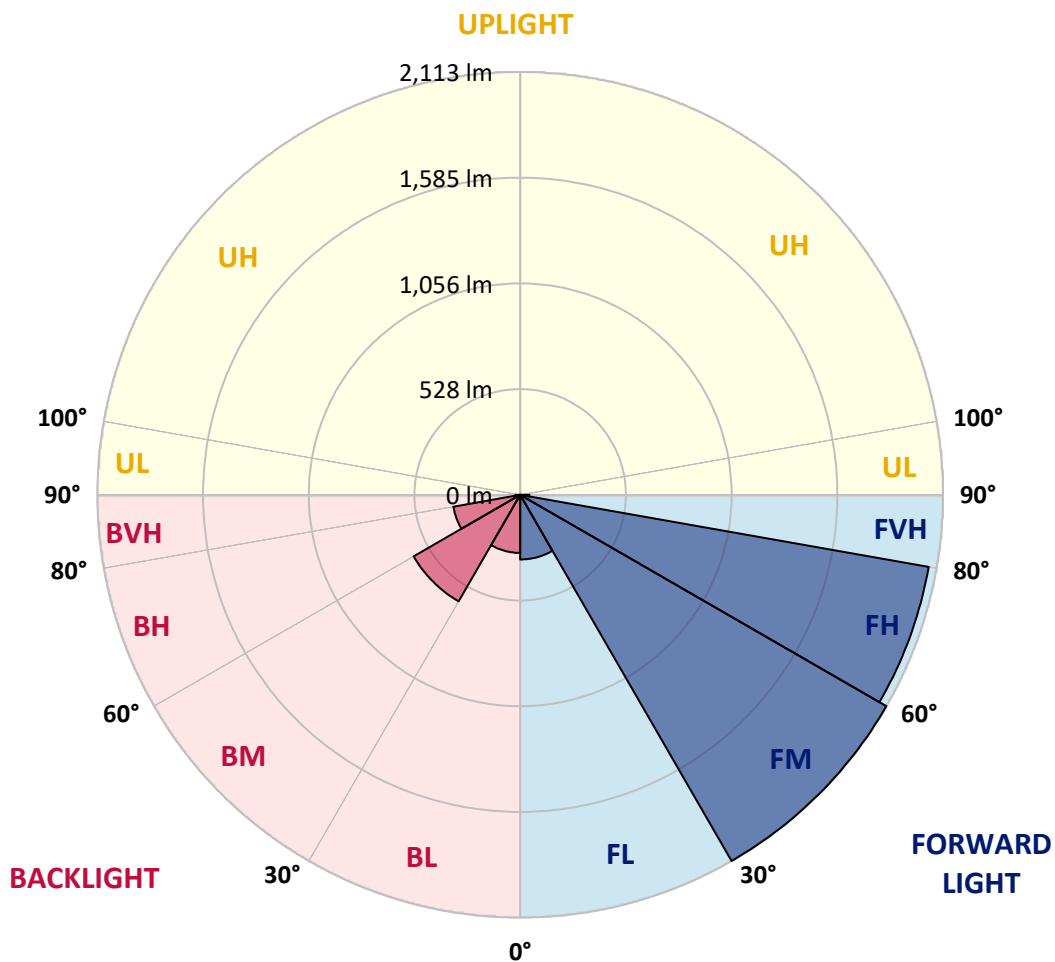
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.0	5.5			
FM	(30°-60°)	2113.0	36.3			
FH	(60°-80°)	2073.2	35.6			G2/5000
FVH	(80°-90°)	45.4	0.8			G1/100
BL	(0°-30°)	290.3	5.0	B1/500		
BM	(30°-60°)	614.6	10.6	B1/1000		
BH	(60°-80°)	339.0	5.8	B1/500		G1/500
BVH	(80°-90°)	23.5	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°	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



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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



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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



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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
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°	750.2	742.5	752.1	742.5	752.1	746.3	752.1	746.3	752.1	756.0	756.0
5°	746.3	732.9	750.2	740.6	752.1	742.5	750.2	744.4	754.0	757.9	761.7
7.5°	744.4	731.0	748.3	734.8	752.1	738.6	750.2	742.5	754.0	757.9	765.6
10°	742.5	725.2	748.3	729.0	750.2	736.7	750.2	738.6	752.1	756.0	757.9
12.5°	742.5	723.3	748.3	727.1	750.2	731.0	748.3	731.0	750.2	748.3	742.5
15°	744.4	719.4	748.3	723.3	748.3	725.2	746.3	723.3	742.5	736.7	732.9
17.5°	744.4	719.4	746.3	721.3	744.4	723.3	740.6	719.4	736.7	734.8	729.0
20°	748.3	723.3	746.3	729.0	746.3	725.2	738.6	719.4	732.9	721.3	698.3
22.5°	759.8	742.5	759.8	742.5	750.2	731.0	736.7	713.6	711.7	692.5	655.9
25°	786.7	779.0	775.2	754.0	748.3	723.3	715.6	688.6	679.0	650.2	600.2
27.5°	821.4	804.1	781.0	756.0	731.0	700.2	679.0	657.9	636.7	600.2	536.7
30°	844.4	819.4	771.3	736.7	690.6	665.6	629.0	605.9	575.1	529.0	467.4
32.5°	859.8	821.4	748.3	707.9	646.3	613.6	565.5	540.5	496.3	452.0	407.8
35°	863.7	813.7	717.5	673.2	592.5	555.9	492.4	465.5	423.2	392.4	375.1
37.5°	848.3	786.7	669.4	611.7	523.2	480.9	421.3	402.0	377.0	365.5	357.8
40°	817.5	734.8	594.4	527.1	436.6	403.9	373.2	373.2	359.7	353.9	340.5
42.5°	761.7	657.9	498.2	432.8	371.2	365.5	348.2	355.9	346.2	342.4	323.2
45°	675.2	548.2	402.0	363.6	334.7	338.5	327.0	334.7	328.9	327.0	303.9
47.5°	563.6	436.6	338.5	325.1	305.8	311.6	302.0	311.6	305.8	307.8	290.5
50°	450.1	353.9	300.1	292.4	278.9	282.8	277.0	286.6	284.7	292.4	282.8
52.5°	359.7	302.0	267.4	261.6	253.9	255.8	253.9	263.5	265.5	280.8	280.8
55°	298.2	259.7	240.4	238.5	230.8	232.8	234.7	244.3	252.0	271.2	280.8
57.5°	255.8	232.8	219.3	217.4	213.5	215.4	219.3	230.8	238.5	263.5	284.7
60°	225.1	211.6	202.0	202.0	198.1	202.0	205.8	217.4	227.0	255.8	277.0
62.5°	202.0	192.4	186.6	188.5	186.6	190.4	194.3	205.8	217.4	244.3	265.5
65°	180.8	175.0	171.2	173.1	173.1	178.9	182.7	194.3	203.9	228.9	255.8
67.5°	163.5	159.7	157.7	159.7	161.6	167.4	173.1	180.8	188.5	211.6	242.4
70°	150.0	146.2	146.2	146.2	148.1	153.9	161.6	165.4	173.1	198.1	227.0
71°	142.3	140.4	140.4	140.4	142.3	148.1	155.8	159.7	167.4	192.4	219.3
72.5°	132.7	132.7	134.6	132.7	136.6	138.5	146.2	150.0	159.7	184.7	209.7
75°	117.3	117.3	119.3	119.3	123.1	123.1	128.9	132.7	144.3	165.4	188.5
77.5°	103.9	103.9	107.7	105.8	105.8	101.9	109.6	113.5	123.1	144.3	167.4
80°	88.5	86.6	90.4	84.6	82.7	78.9	84.6	90.4	105.8	119.3	123.1
82.5°	69.2	63.5	65.4	59.6	59.6	55.8	61.6	63.5	73.1	86.6	94.3
85°	42.3	34.6	38.5	32.7	36.5	32.7	34.6	36.5	44.2	53.9	51.9
87.5°	9.6	5.8	7.7	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°	752.1	752.1	752.1	752.1
2.5°	759.8	757.9	759.8	757.9
5°	769.4	769.4	771.3	773.3
7.5°	771.3	775.2	779.0	777.1
10°	757.9	754.0	757.9	754.0
12.5°	736.7	732.9	736.7	736.7
15°	734.8	732.9	734.8	734.8
17.5°	721.3	711.7	707.9	705.9
20°	682.9	665.6	661.7	655.9
22.5°	629.0	604.0	596.3	590.5
25°	563.6	529.0	515.5	507.8
27.5°	492.4	457.8	444.3	444.3
30°	436.6	409.7	396.3	396.3
32.5°	396.3	380.9	371.2	373.2
35°	363.6	353.9	348.2	350.1
37.5°	342.4	327.0	313.5	313.5
40°	321.2	302.0	284.7	284.7
42.5°	302.0	282.8	271.2	269.3
45°	282.8	269.3	259.7	257.8
47.5°	273.1	261.6	252.0	250.1
50°	269.3	257.8	244.3	244.3
52.5°	273.1	263.5	238.5	238.5
55°	280.8	275.1	238.5	234.7
57.5°	273.1	263.5	240.4	234.7
60°	255.8	240.4	236.6	232.8
62.5°	244.3	228.9	236.6	234.7
65°	234.7	223.1	240.4	236.6
67.5°	225.1	213.5	240.4	232.8
70°	213.5	202.0	219.3	205.8
71°	207.7	194.3	207.7	196.2
72.5°	198.1	182.7	186.6	178.9
75°	178.9	163.5	159.7	157.7
77.5°	148.1	130.8	125.0	123.1
80°	113.5	101.9	101.9	96.2
82.5°	84.6	75.0	73.1	63.5
85°	44.2	34.6	28.9	28.9
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)