

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: P200025

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T2R-7030-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6906.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

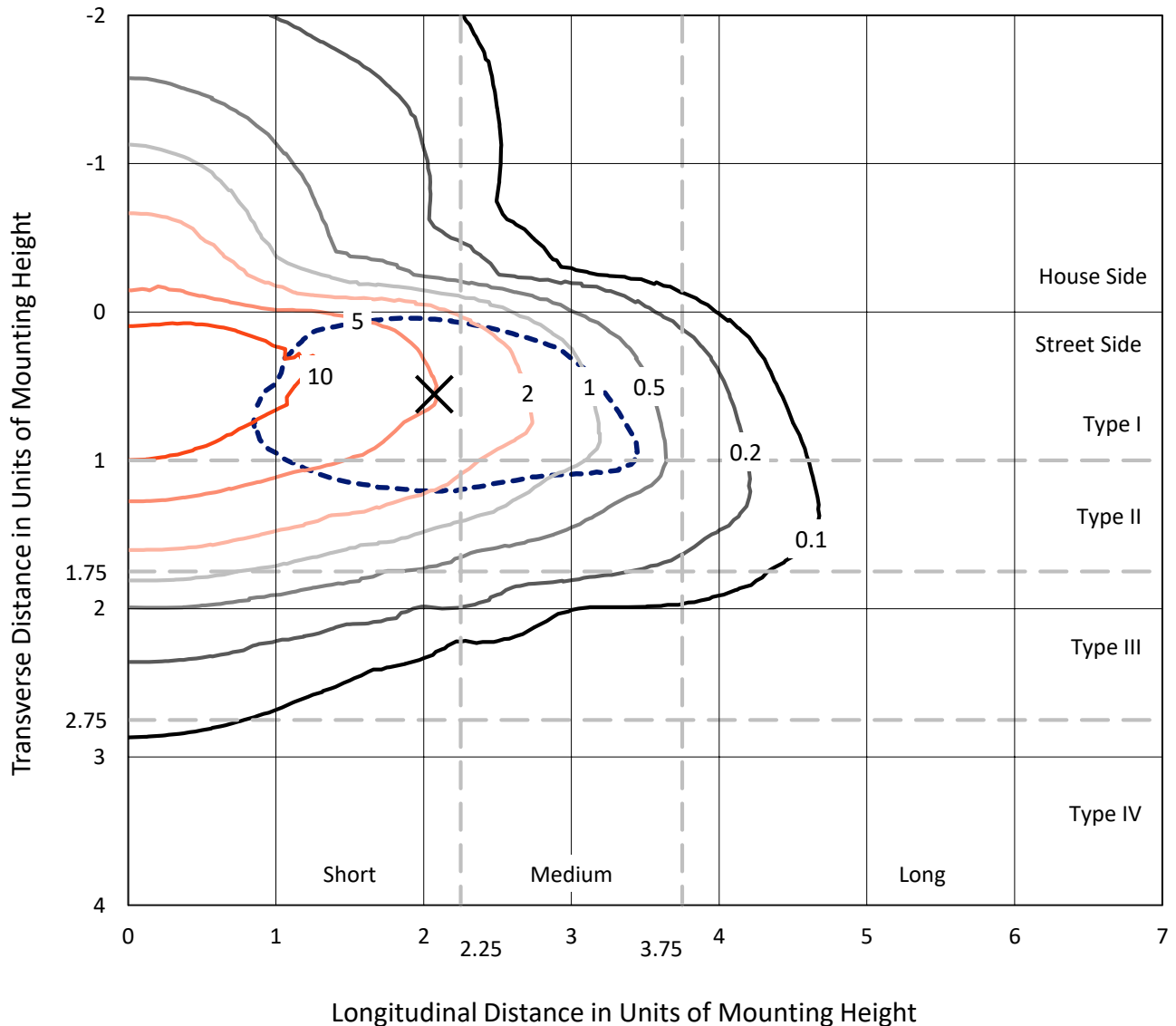
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

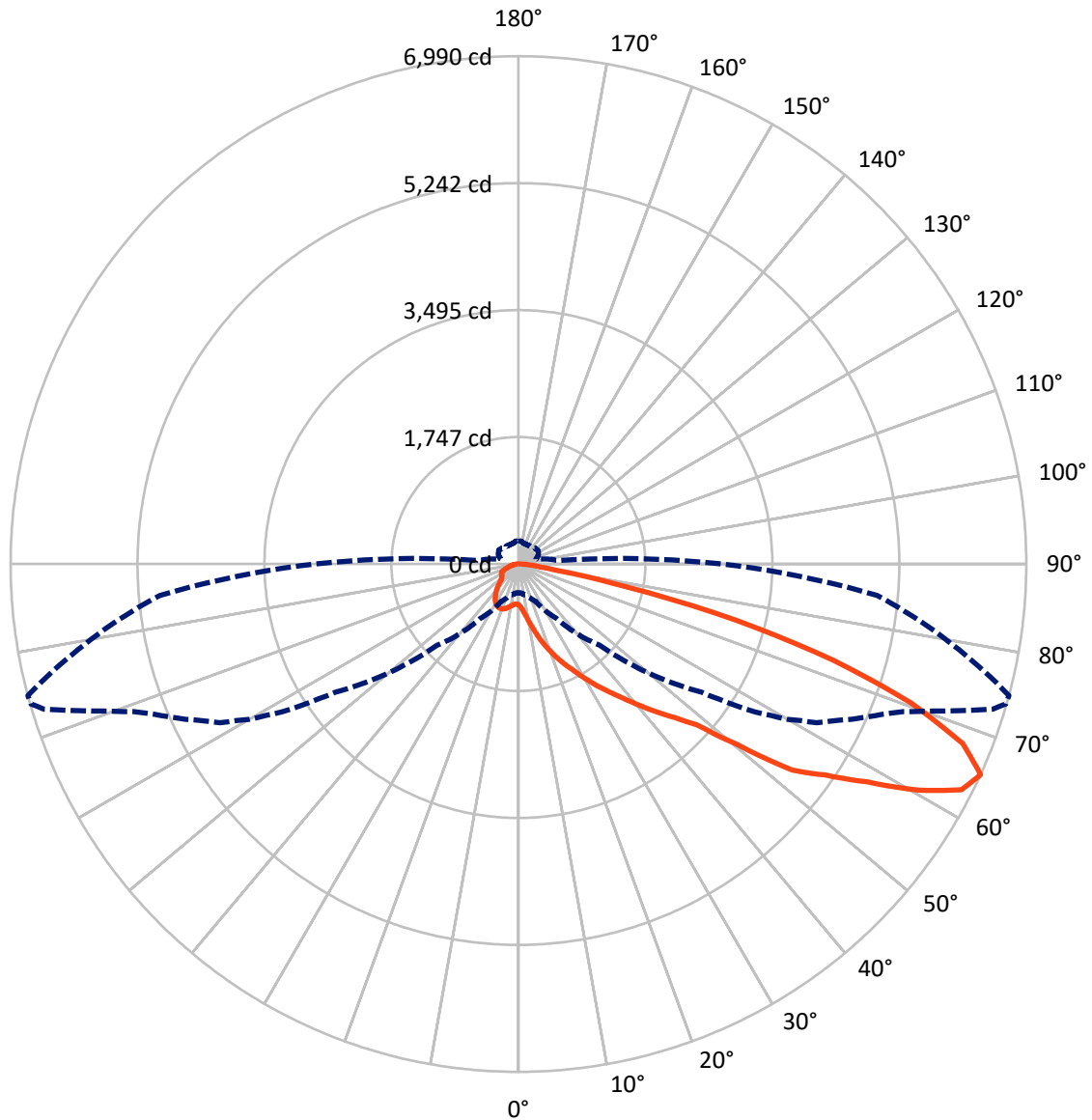
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.8	0.0	1064.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5841.5	0.0	5841.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	6906.3	0.0	6906.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.0
10°-20°	271.1	3.9
20°-30°	556.1	8.1
30°-40°	935.7	13.5
40°-50°	1292.8	18.7
50°-60°	1613.8	23.4
60°-70°	1452.3	21.0
70°-80°	608.8	8.8
80°-90°	106.4	1.5
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°	6906.3	100.0
0°-180°	6906.3	100.0



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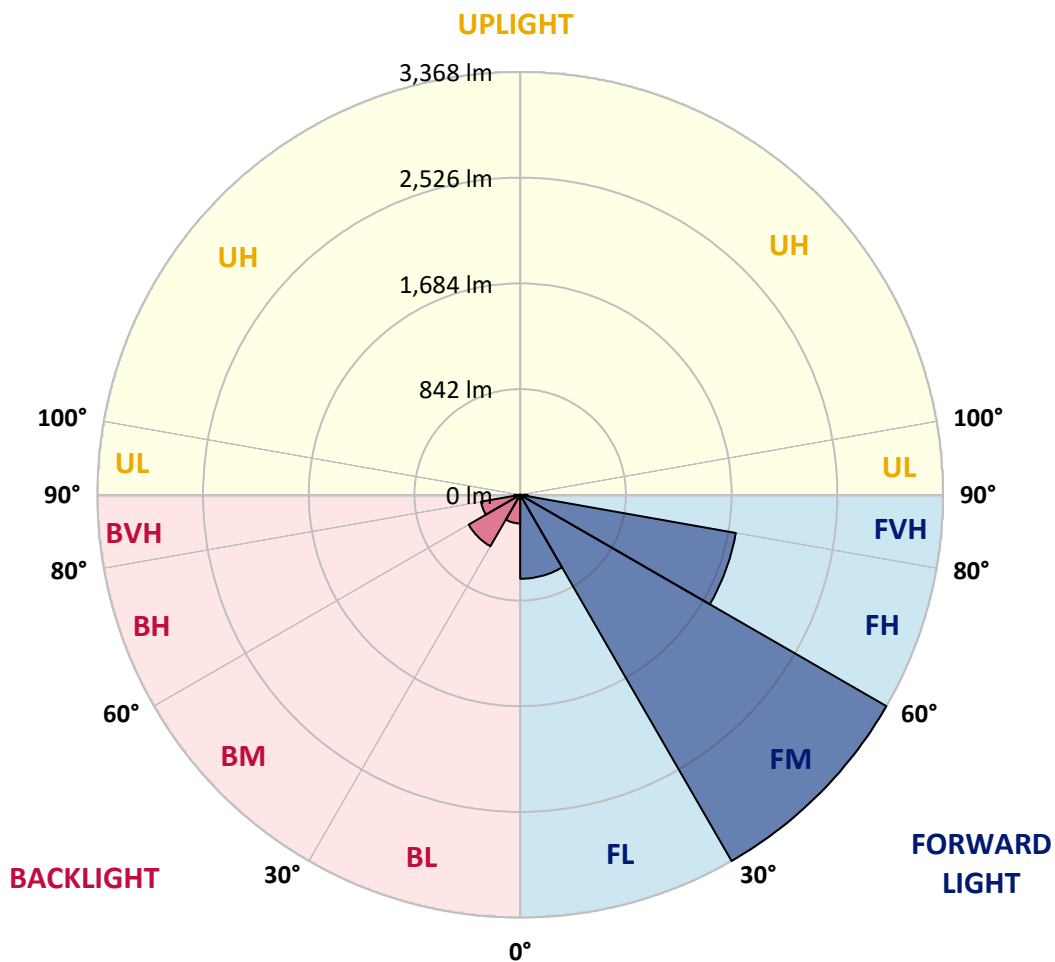
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.9	9.7			
FM	(30°-60°)	3368.4	48.8			
FH	(60°-80°)	1744.5	25.3			G1/1800
FVH	(80°-90°)	59.8	0.9			G1/100
BL	(0°-30°)	227.7	3.3	B1/500		
BM	(30°-60°)	473.9	6.9	B1/1000		
BH	(60°-80°)	316.5	4.6	B1/500		G1/500
BVH	(80°-90°)	46.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3
2.5°	712.6	704.8	706.7	693.6	677.6	656.7	633.5	633.2	633.5	631.2	622.7
5°	988.1	978.7	975.2	945.7	902.5	841.1	774.4	767.2	764.3	756.8	739.4
7.5°	1189.2	1184.0	1178.5	1156.2	1116.9	1048.3	958.7	943.4	928.6	925.1	905.4
10°	1319.0	1317.7	1306.0	1300.1	1275.6	1216.1	1128.7	1114.0	1098.0	1092.4	1071.8
12.5°	1421.6	1421.3	1415.7	1417.3	1396.2	1353.0	1277.8	1264.4	1252.7	1235.6	1220.9
15°	1492.5	1492.9	1501.1	1510.3	1506.9	1477.8	1407.3	1401.3	1391.2	1379.4	1362.1
17.5°	1550.7	1552.4	1560.8	1577.6	1595.5	1593.3	1537.3	1532.5	1523.7	1507.6	1498.4
20°	1682.2	1688.3	1672.0	1672.0	1674.1	1682.9	1656.0	1652.1	1639.7	1631.2	1624.0
22.5°	1904.1	1911.3	1874.4	1836.8	1799.8	1773.1	1746.2	1751.2	1742.7	1736.8	1732.5
25°	2192.4	2198.0	2138.2	2074.8	1999.6	1901.5	1835.2	1832.3	1827.6	1824.0	1822.1
27.5°	2463.7	2466.1	2409.5	2316.7	2229.3	2088.5	1925.4	1921.7	1916.3	1909.4	1903.5
30°	2695.8	2695.2	2637.1	2548.5	2454.9	2299.1	2062.3	2051.3	2034.8	2016.3	2001.9
32.5°	2896.9	2895.9	2832.1	2740.3	2642.2	2507.5	2250.0	2227.1	2201.6	2165.3	2143.4
35°	3055.1	3054.5	2994.3	2898.5	2786.0	2704.0	2465.1	2437.0	2404.6	2355.9	2322.3
37.5°	3114.9	3114.9	3081.3	3015.9	2916.5	2860.3	2704.0	2670.0	2635.3	2580.1	2542.2
40°	3079.9	3080.6	3087.7	3075.7	3027.3	2984.2	2927.0	2906.7	2876.9	2827.3	2787.8
42.5°	2962.6	2966.2	3014.0	3072.4	3096.7	3089.8	3124.7	3115.6	3094.6	3056.4	3025.0
45°	2813.9	2825.0	2877.2	2987.8	3115.9	3181.0	3290.4	3291.5	3287.5	3266.9	3242.7
47.5°	2609.6	2625.3	2694.2	2843.6	3070.8	3269.6	3458.8	3467.6	3475.8	3462.4	3451.3
50°	2338.3	2356.8	2460.2	2658.2	2978.9	3361.4	3776.9	3816.7	3854.0	3849.5	3857.0
52.5°	2047.6	2069.5	2196.1	2416.7	2821.1	3382.7	3980.2	4045.3	4110.3	4163.5	4220.1
55°	1785.4	1773.7	1900.3	2132.6	2561.5	3286.9	4162.9	4241.4	4313.9	4379.3	4446.7
57.5°	1430.1	1449.5	1576.3	1806.1	2218.0	3016.5	4288.8	4403.5	4507.8	4616.0	4711.4
60°	1045.4	1064.7	1202.3	1435.7	1844.9	2606.6	4192.6	4366.5	4533.7	4699.4	4828.8
62.5°	631.2	645.6	766.9	989.1	1422.6	2120.5	3764.4	3992.7	4238.4	4436.6	4635.0
65°	392.9	401.1	445.8	568.2	913.6	1583.1	3075.7	3324.5	3589.2	3840.7	4046.9
67.5°	321.7	324.6	332.7	359.0	501.8	1032.3	2289.2	2509.6	2748.4	2991.7	3221.1
70°	289.2	287.3	287.3	288.9	321.7	555.1	1498.8	1642.3	1841.4	2052.9	2262.8
72.5°	261.2	259.2	255.6	250.7	262.5	338.7	774.7	882.9	1026.4	1214.3	1415.4
75°	234.7	232.1	227.8	221.6	229.9	255.6	372.0	417.4	487.4	587.4	699.5
77.5°	207.3	204.0	200.1	195.5	205.9	198.7	218.0	234.4	261.2	293.2	335.4
80°	176.1	173.2	172.0	169.7	182.1	151.3	153.9	164.1	179.8	197.1	216.7
82.5°	137.9	137.9	143.2	144.1	157.9	108.8	115.0	123.8	132.1	141.2	150.4
85°	90.9	91.5	109.2	116.0	124.6	73.3	86.2	89.3	95.8	101.0	104.9
87.5°	28.5	30.7	66.7	73.9	71.6	41.6	53.0	54.2	58.9	62.4	65.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3
2.5°	622.7	618.8	615.2	614.9	612.2	608.7	610.0	604.4	604.7	601.8	598.6
5°	732.2	729.6	716.5	713.0	703.1	697.0	696.0	682.9	681.3	673.8	665.5
7.5°	889.8	881.3	863.0	854.2	837.5	825.1	819.2	801.9	793.3	773.8	765.0
10°	1054.8	1044.1	1021.6	1009.1	993.1	973.1	962.4	937.2	927.4	909.4	887.8
12.5°	1207.9	1197.1	1173.9	1164.4	1143.1	1121.9	1110.2	1081.7	1068.9	1040.1	1023.2
15°	1349.4	1338.6	1318.3	1308.5	1287.3	1270.0	1254.3	1226.2	1211.1	1184.3	1162.0
17.5°	1486.7	1475.2	1457.6	1448.8	1428.2	1410.5	1393.5	1367.1	1351.7	1324.9	1304.9
20°	1614.2	1605.6	1593.0	1581.1	1560.5	1544.5	1524.3	1501.4	1479.2	1459.6	1440.5
22.5°	1725.3	1722.1	1708.3	1703.1	1685.4	1671.7	1654.1	1631.5	1615.5	1590.6	1573.0
25°	1821.1	1820.1	1813.6	1812.0	1799.5	1786.4	1782.5	1763.8	1749.2	1727.3	1709.0
27.5°	1903.5	1904.4	1902.8	1907.4	1904.1	1898.2	1898.5	1892.4	1883.8	1865.6	1849.6
30°	1995.0	1989.7	1992.7	1999.3	2001.2	2001.9	2012.7	2016.3	2015.6	2003.5	1995.6
32.5°	2124.4	2112.1	2100.6	2099.6	2106.2	2108.7	2127.1	2136.5	2144.7	2147.6	2149.0
35°	2289.5	2264.7	2240.8	2228.1	2217.0	2219.9	2233.0	2248.4	2266.3	2278.8	2293.5
37.5°	2497.4	2467.0	2424.8	2394.8	2387.2	2370.9	2379.4	2391.5	2409.1	2428.5	2453.9
40°	2749.4	2703.3	2656.0	2616.1	2594.5	2564.5	2564.1	2561.9	2572.6	2590.6	2626.5
42.5°	2992.0	2951.1	2900.9	2859.0	2830.8	2790.7	2782.5	2761.2	2766.2	2781.9	2816.8
45°	3219.2	3185.5	3154.8	3106.4	3082.6	3039.1	3025.3	3000.2	2986.1	2993.3	3028.4
47.5°	3439.2	3417.6	3385.6	3354.2	3335.9	3297.0	3279.4	3261.4	3243.4	3242.7	3279.4
50°	3868.1	3856.7	3818.8	3786.0	3794.8	3747.1	3750.0	3701.7	3723.6	3726.2	3803.1
52.5°	4271.2	4311.0	4339.2	4373.4	4395.6	4399.9	4414.7	4436.6	4463.0	4515.3	4586.6
55°	4501.9	4551.9	4581.0	4607.1	4650.3	4659.4	4684.0	4713.0	4736.3	4795.1	4855.6
57.5°	4776.2	4869.0	4914.1	4955.7	5013.8	5036.0	5076.9	5108.6	5138.7	5208.3	5281.5
60°	4945.1	5058.2	5150.2	5215.8	5288.7	5341.0	5402.8	5452.5	5523.1	5606.5	5715.7
62.5°	4810.8	4976.9	5098.8	5211.6	5310.7	5410.6	5499.3	5592.1	5699.4	5825.5	5994.8
65°	4275.7	4444.7	4653.6	4770.6	4901.8	5056.0	5190.7	5341.0	5487.1	5670.9	5921.3
67.5°	3442.2	3638.6	3873.3	3991.4	4142.1	4314.2	4465.4	4649.0	4819.7	5042.2	5351.8
70°	2481.1	2735.1	2932.5	3055.7	3231.7	3409.1	3555.0	3768.7	3910.0	4138.1	4458.2
72.5°	1571.0	1771.4	2013.4	2168.6	2324.8	2504.6	2653.7	2838.0	2969.8	3177.6	3467.6
75°	844.7	992.4	1204.9	1352.4	1519.7	1673.3	1847.9	1971.5	2068.9	2233.3	2468.7
77.5°	395.9	485.8	593.3	706.7	820.2	938.5	1053.6	1153.6	1195.4	1289.5	1428.5
80°	240.3	269.4	300.7	335.8	383.1	421.4	472.1	508.7	511.3	541.0	583.5
82.5°	160.5	171.3	180.8	189.6	201.7	211.2	222.0	234.7	239.9	246.8	260.6
85°	109.6	114.7	116.8	122.2	120.9	124.3	128.5	132.8	135.0	134.7	140.9
87.5°	67.3	69.9	71.2	72.6	71.6	70.2	72.3	74.5	75.2	73.3	73.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3
2.5°	599.2	596.2	593.3	591.4	590.7	573.3	565.8	561.0	550.5	542.0	535.1
5°	661.0	654.8	649.8	644.0	640.7	596.9	580.9	569.8	551.4	540.7	530.9
7.5°	760.3	743.0	732.8	721.5	711.7	632.5	606.1	588.7	563.2	548.9	537.7
10°	873.1	855.2	839.2	821.5	806.1	679.9	641.3	614.6	580.9	562.3	547.6
12.5°	999.0	981.3	961.1	938.5	918.9	740.0	686.4	648.2	602.1	577.3	556.7
15°	1147.8	1116.6	1092.1	1066.0	1043.1	812.0	739.1	686.1	624.7	591.1	563.6
17.5°	1286.0	1253.3	1219.9	1197.1	1170.6	892.8	792.0	724.7	643.4	599.9	564.9
20°	1421.0	1385.3	1356.6	1325.8	1298.1	976.4	848.6	758.7	655.4	600.2	556.7
22.5°	1540.0	1517.8	1485.7	1452.4	1424.2	1060.1	901.6	787.5	660.0	592.7	542.3
25°	1675.3	1651.8	1612.5	1584.5	1553.0	1145.4	953.6	809.7	657.3	578.6	520.1
27.5°	1819.8	1793.6	1753.4	1724.0	1686.1	1234.0	1001.3	825.7	647.6	555.7	490.3
30°	1970.5	1946.7	1907.0	1877.4	1839.0	1327.8	1054.5	836.5	627.9	524.0	455.7
32.5°	2132.3	2112.4	2073.2	2042.0	2001.2	1429.5	1104.3	839.8	598.3	486.4	419.1
35°	2286.0	2272.2	2239.2	2210.1	2167.6	1525.6	1156.9	838.1	562.9	445.2	385.7
37.5°	2458.9	2450.7	2434.4	2397.4	2345.5	1656.0	1219.9	831.2	519.7	404.4	360.2
40°	2643.2	2643.8	2626.2	2601.1	2552.6	1814.2	1295.1	817.9	472.7	368.4	337.0
42.5°	2838.3	2848.6	2840.1	2822.0	2775.6	1973.7	1385.0	801.6	426.9	333.4	314.2
45°	3062.0	3074.4	3087.4	3061.0	3015.9	2184.2	1503.4	780.3	377.5	304.3	298.5
47.5°	3319.9	3339.5	3351.2	3351.6	3306.5	2445.1	1695.5	767.5	333.7	284.7	291.0
50°	3864.2	3870.3	3898.1	3946.6	3911.9	3048.9	2031.3	759.7	304.0	272.6	285.4
52.5°	4648.4	4716.7	4764.7	4761.5	4714.4	3432.3	2216.4	719.2	286.3	268.1	282.8
55°	4967.7	5053.1	5141.9	5165.5	5128.9	3759.6	2391.2	678.6	277.9	271.3	283.8
57.5°	5393.4	5537.2	5659.1	5710.4	5657.5	4178.3	2621.3	657.3	275.3	280.1	290.0
60°	5890.5	6068.4	6228.6	6320.7	6320.7	4659.4	2859.9	648.5	271.6	293.2	300.4
62.5°	6209.9	6471.1	6713.0	6848.0	6844.1	4994.6	2965.8	618.5	263.5	302.4	314.8
65°	6211.3	6521.8	6830.0	6981.7	6989.5	4953.3	2791.0	546.3	248.4	303.6	329.2
67.5°	5693.5	6024.6	6383.9	6553.5	6592.7	4559.8	2416.0	449.2	223.9	290.6	334.4
70°	4808.5	5131.8	5498.6	5665.3	5734.9	3887.1	1946.0	346.2	192.6	261.9	323.6
72.5°	3788.4	4105.4	4360.7	4482.6	4536.9	2971.1	1417.0	261.5	157.9	220.6	294.5
75°	2682.2	2920.1	3055.7	3082.9	3091.4	1791.0	861.0	194.5	130.1	171.6	248.8
77.5°	1513.8	1615.8	1604.7	1616.8	1516.2	691.4	375.0	139.3	107.2	130.4	192.9
80°	591.1	609.3	572.4	561.0	514.5	257.2	165.4	97.1	85.6	98.7	135.0
82.5°	260.6	269.1	261.2	263.1	251.7	132.8	99.0	70.2	65.4	72.3	89.6
85°	143.5	146.1	145.4	149.7	143.5	53.0	47.0	43.2	45.8	49.1	57.6
87.5°	69.9	70.6	68.3	72.0	69.6	26.9	23.2	24.5	26.9	27.5	27.5
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):

	135°	145°	155°	165°	175°	180°
0°	561.3	561.3	561.3	561.3	561.3	561.3
2.5°	530.2	527.6	527.9	527.3	526.0	526.0
5°	525.7	523.1	523.1	522.3	520.7	521.0
7.5°	530.2	526.0	524.4	522.0	519.7	519.7
10°	535.4	527.9	523.4	519.4	516.5	516.5
12.5°	539.4	527.6	520.1	514.8	511.9	511.9
15°	540.7	525.3	514.8	508.7	506.0	505.7
17.5°	536.4	516.5	503.7	496.5	493.3	492.2
20°	523.4	500.5	485.1	476.9	472.4	470.8
22.5°	503.7	477.5	459.6	451.1	445.2	444.2
25°	476.2	448.2	430.5	422.3	419.1	418.1
27.5°	444.2	418.1	403.1	397.8	394.8	394.5
30°	413.8	391.6	380.5	376.6	373.0	372.3
32.5°	385.4	371.3	367.1	361.5	353.0	352.1
35°	365.2	363.8	360.9	348.4	338.0	335.1
37.5°	352.7	364.8	349.7	325.2	317.7	317.1
40°	345.5	354.7	328.9	320.4	321.0	320.4
42.5°	329.2	338.7	329.5	325.6	328.2	328.9
45°	312.9	323.3	334.4	331.8	338.0	338.0
47.5°	303.6	319.3	334.0	334.0	343.3	346.5
50°	293.2	316.1	328.9	333.4	340.6	338.0
52.5°	292.6	310.5	321.4	329.5	332.7	329.8
55°	293.5	306.0	313.8	323.0	326.8	327.2
57.5°	294.8	303.3	308.6	312.9	324.6	324.6
60°	298.2	301.1	304.0	306.3	321.7	322.0
62.5°	303.3	298.8	298.2	300.4	320.1	318.7
65°	311.5	295.5	290.6	292.9	318.4	314.5
67.5°	322.7	290.6	281.1	282.8	317.1	308.6
70°	332.7	282.8	269.4	267.8	304.6	289.6
72.5°	333.7	273.6	253.1	248.1	264.8	250.4
75°	317.4	267.4	235.0	220.6	218.7	216.7
77.5°	286.0	263.8	214.1	191.5	187.6	188.9
80°	239.3	250.4	188.9	162.2	183.3	181.1
82.5°	178.8	220.9	160.5	143.5	143.2	126.5
85°	99.4	172.3	130.7	107.5	74.9	72.6
87.5°	27.8	95.8	91.5	60.8	41.6	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)