

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: P200022

Luminaire Tested: **GWC-AF-02-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200022
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-02-LED-E1-T2R-7030-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9941.6 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

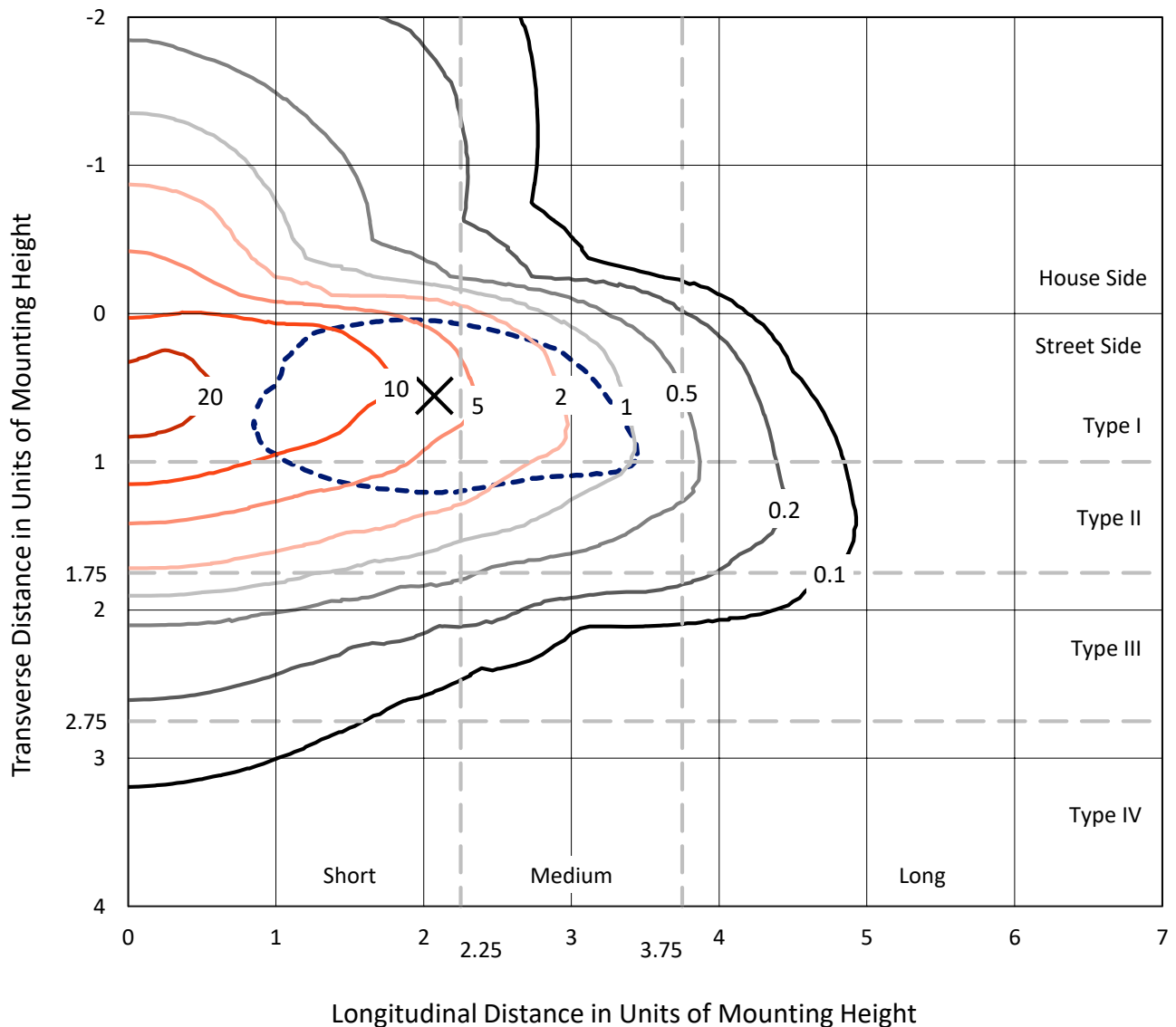


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Iso-Footcandle Lines of Horizontal Illumination

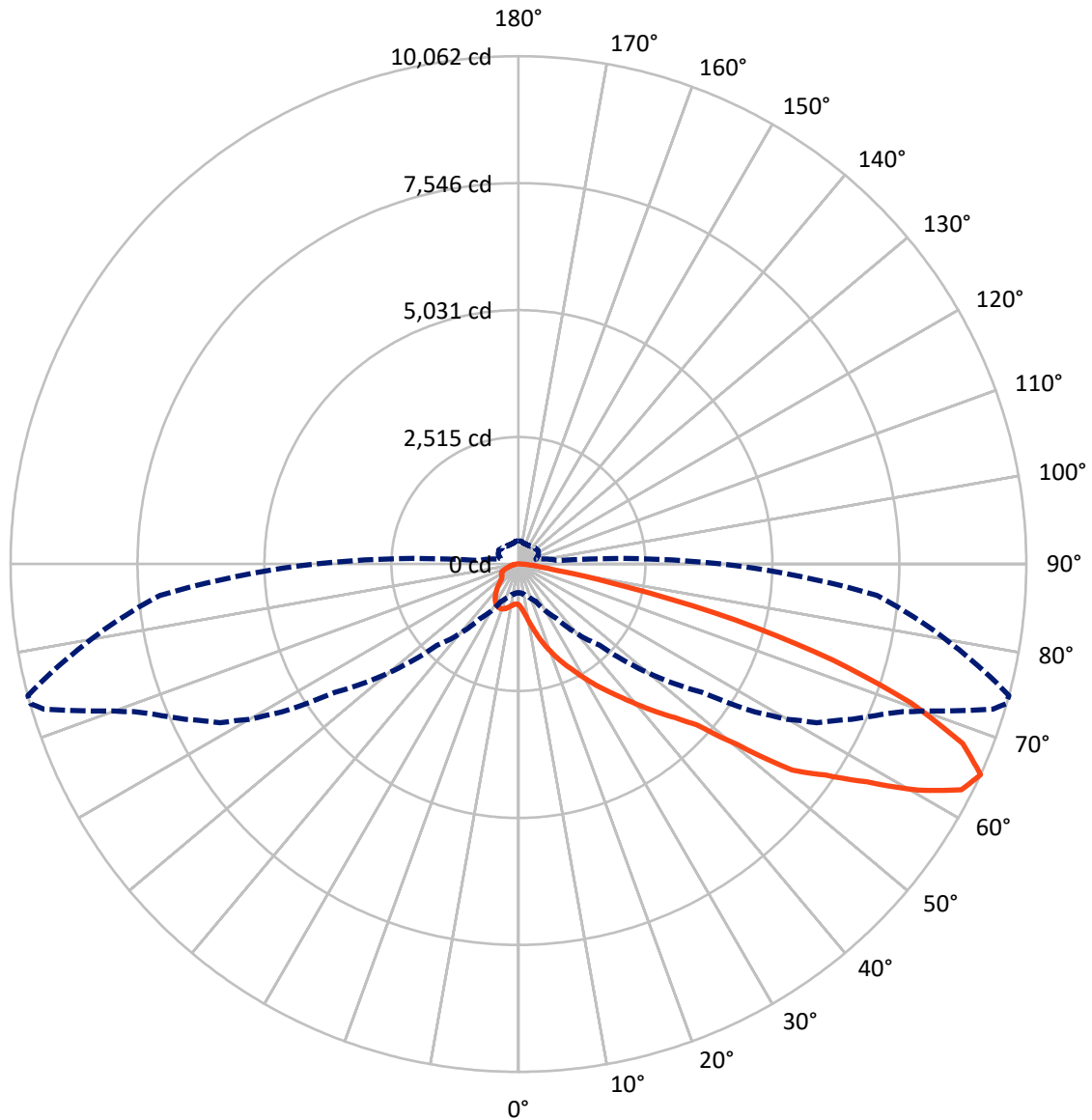
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 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	1532.8	0.0	1532.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8408.9	0.0	8408.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	9941.6	0.0	9941.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.0
10°-20°	390.2	3.9
20°-30°	800.6	8.1
30°-40°	1346.9	13.5
40°-50°	1861.0	18.7
50°-60°	2323.1	23.4
60°-70°	2090.6	21.0
70°-80°	876.3	8.8
80°-90°	153.1	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°	9941.6	100.0
0°-180°	9941.6	100.0

Coefficient of Utilization



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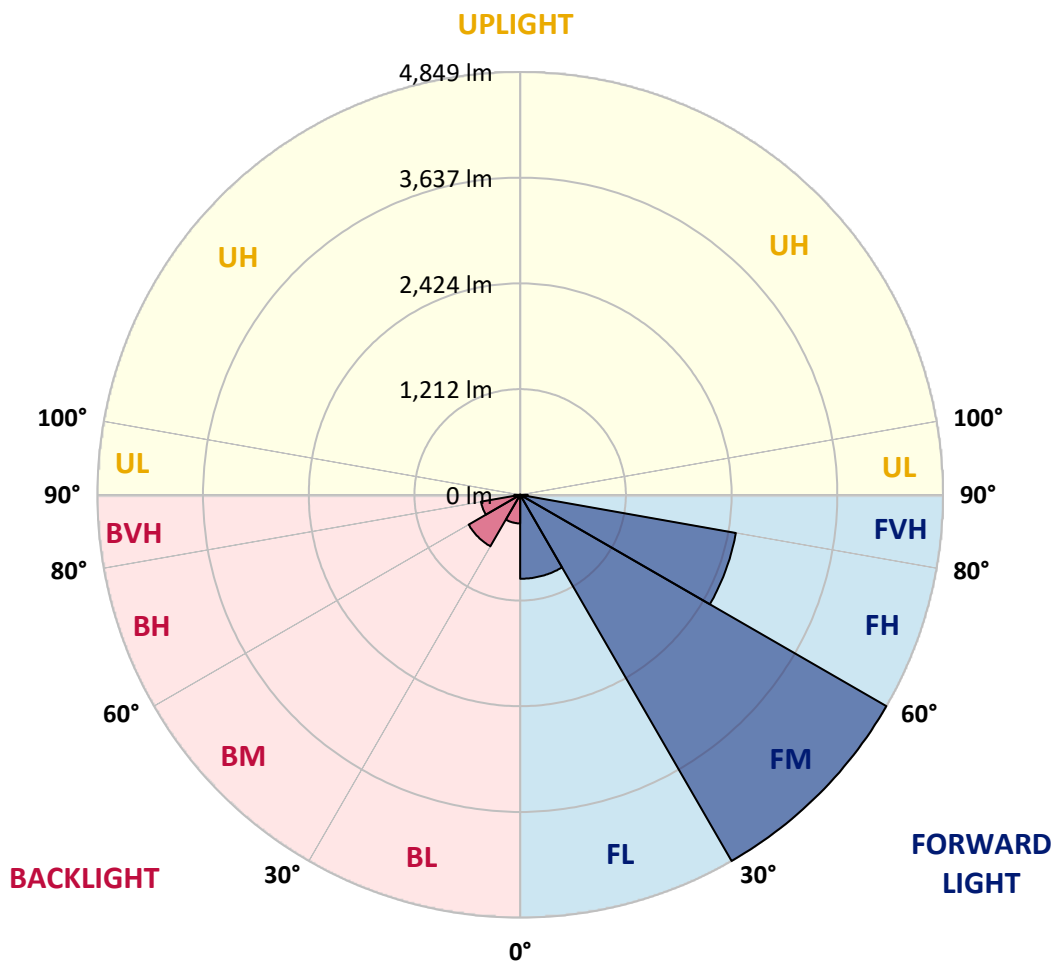
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.8	9.7			
FM (30°-60°)	4848.8	48.8			
FH (60°-80°)	2511.2	25.3			G2/5000
FVH (80°-90°)	86.1	0.9			G1/100
BL (0°-30°)	327.8	3.3	B1/500		
BM (30°-60°)	682.3	6.9	B1/1000		
BH (60°-80°)	455.7	4.6	B1/500		G1/500
BVH (80°-90°)	67.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9
2.5°	1025.8	1014.6	1017.4	998.6	975.5	945.4	911.9	911.5	911.9	908.7	896.4
5°	1422.5	1408.9	1403.7	1361.3	1299.2	1210.7	1114.8	1104.4	1100.2	1089.3	1064.4
7.5°	1711.9	1704.3	1696.4	1664.4	1607.9	1509.1	1380.2	1358.1	1336.9	1331.6	1303.5
10°	1898.7	1896.8	1879.8	1871.4	1836.1	1750.5	1624.9	1603.7	1580.6	1572.6	1542.9
12.5°	2046.4	2046.0	2037.9	2040.3	2009.7	1947.6	1839.5	1820.1	1803.2	1778.7	1757.5
15°	2148.6	2149.0	2160.8	2173.9	2169.3	2127.4	2025.7	2017.3	2002.7	1985.7	1960.8
17.5°	2232.4	2234.7	2247.0	2270.9	2296.8	2293.5	2213.0	2205.9	2193.3	2170.2	2157.1
20°	2421.5	2430.4	2406.9	2406.9	2409.7	2422.5	2383.8	2378.2	2360.3	2348.0	2337.7
22.5°	2741.0	2751.3	2698.2	2644.0	2590.9	2552.3	2513.8	2520.7	2508.5	2500.1	2494.0
25°	3156.1	3164.0	3077.9	2986.7	2878.4	2737.3	2641.7	2637.5	2630.8	2625.7	2622.9
27.5°	3546.6	3549.9	3468.5	3334.9	3209.2	3006.4	2771.5	2766.4	2758.4	2748.6	2740.1
30°	3880.7	3879.8	3796.0	3668.5	3533.9	3309.4	2968.7	2952.7	2929.2	2902.4	2881.7
32.5°	4170.1	4168.7	4076.9	3944.6	3803.5	3609.6	3238.9	3205.9	3169.2	3117.0	3085.5
35°	4397.8	4396.9	4310.3	4172.5	4010.6	3892.4	3548.5	3508.0	3461.4	3391.3	3342.8
37.5°	4483.9	4483.9	4435.5	4341.4	4198.3	4117.4	3892.4	3843.5	3793.6	3714.1	3659.5
40°	4433.6	4434.5	4444.8	4427.4	4357.8	4295.8	4213.4	4184.2	4141.4	4069.9	4013.0
42.5°	4264.6	4269.9	4338.5	4422.8	4457.6	4447.7	4498.0	4484.9	4454.7	4399.7	4354.5
45°	4050.5	4066.6	4141.8	4300.9	4485.3	4579.0	4736.7	4738.1	4732.4	4702.7	4667.9
47.5°	3756.5	3779.0	3878.4	4093.4	4420.5	4706.5	4979.0	4991.7	5003.5	4984.1	4968.1
50°	3365.9	3392.7	3541.4	3826.6	4288.2	4838.7	5436.9	5494.2	5547.9	5541.3	5552.1
52.5°	2947.6	2979.1	3161.2	3478.8	4061.0	4869.3	5729.5	5823.2	5916.8	5993.4	6074.9
55°	2570.2	2553.3	2735.3	3069.9	3687.3	4731.5	5992.6	6105.5	6210.0	6304.1	6400.9
57.5°	2058.7	2086.5	2269.0	2599.8	3192.7	4342.3	6173.7	6338.9	6489.0	6644.8	6782.1
60°	1504.9	1532.6	1730.8	2066.7	2655.9	3752.3	6035.3	6285.7	6526.2	6764.7	6951.1
62.5°	908.7	929.4	1103.9	1423.9	2047.8	3052.5	5418.9	5747.4	6101.3	6386.4	6672.0
65°	565.6	577.4	641.9	817.8	1315.2	2278.9	4427.4	4785.5	5166.7	5528.6	5825.5
67.5°	463.0	467.2	479.0	516.6	722.3	1486.0	3295.4	3612.4	3956.5	4306.5	4636.9
70°	416.4	413.6	413.6	416.0	463.0	799.0	2157.5	2364.0	2650.6	2955.1	3257.2
72.5°	375.9	373.1	368.0	360.9	377.9	487.5	1115.2	1271.0	1477.6	1748.2	2037.5
75°	337.9	334.1	328.0	319.0	330.8	368.0	535.5	600.9	701.6	845.6	1006.9
77.5°	298.4	293.7	288.0	281.4	296.4	286.1	313.8	337.4	375.9	422.1	482.8
80°	253.6	249.4	247.5	244.2	262.1	217.8	221.6	236.2	258.9	283.8	312.0
82.5°	198.6	198.6	206.1	207.5	227.3	156.7	165.6	178.3	190.1	203.3	216.4
85°	130.8	131.8	157.1	167.0	179.3	105.4	124.3	128.5	137.9	145.4	151.0
87.5°	40.9	44.3	96.0	106.3	103.0	59.7	76.3	78.1	84.7	89.9	94.6
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°	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9
2.5°	896.4	890.7	885.6	885.1	881.4	876.2	878.1	870.1	870.5	866.3	861.6
5°	1054.1	1050.3	1031.4	1026.3	1012.2	1003.2	1001.8	983.0	980.6	969.8	958.1
7.5°	1280.8	1268.6	1242.3	1229.6	1205.5	1187.7	1179.2	1154.3	1142.1	1113.8	1101.1
10°	1518.5	1503.0	1470.5	1452.6	1429.6	1400.8	1385.3	1349.0	1335.0	1309.1	1278.0
12.5°	1738.7	1723.1	1689.7	1676.1	1645.6	1615.0	1598.0	1557.1	1538.7	1497.4	1472.9
15°	1942.5	1926.9	1897.8	1883.6	1853.1	1828.1	1805.5	1765.0	1743.4	1704.9	1672.9
17.5°	2140.1	2123.7	2098.2	2085.5	2055.9	2030.4	2005.9	1967.9	1945.8	1907.1	1878.4
20°	2323.7	2311.4	2293.0	2276.1	2246.4	2223.3	2194.2	2161.3	2129.2	2101.0	2073.7
22.5°	2483.6	2478.9	2459.1	2451.6	2426.2	2406.5	2381.0	2348.6	2325.5	2289.7	2264.4
25°	2621.5	2620.1	2610.6	2608.3	2590.5	2571.5	2566.0	2539.1	2518.0	2486.4	2460.1
27.5°	2740.1	2741.5	2739.1	2745.7	2741.0	2732.6	2733.0	2724.1	2711.8	2685.5	2662.4
30°	2871.9	2864.2	2868.5	2878.0	2880.8	2881.7	2897.2	2902.4	2901.5	2884.0	2872.7
32.5°	3058.1	3040.3	3023.8	3022.4	3031.8	3035.5	3062.0	3075.6	3087.3	3091.6	3093.4
35°	3295.8	3260.0	3225.7	3207.3	3191.3	3195.6	3214.4	3236.5	3262.4	3280.2	3301.4
37.5°	3595.0	3551.3	3490.6	3447.3	3436.5	3413.0	3425.2	3442.6	3468.0	3495.8	3532.5
40°	3957.9	3891.5	3823.3	3765.9	3734.8	3691.5	3691.1	3687.7	3703.3	3729.2	3781.0
42.5°	4307.0	4248.2	4175.7	4115.5	4075.0	4017.1	4005.4	3974.8	3981.8	4004.5	4054.8
45°	4634.1	4585.5	4541.4	4471.7	4437.3	4374.8	4355.0	4318.7	4298.6	4308.9	4359.2
47.5°	4950.7	4919.7	4873.6	4828.4	4802.1	4746.0	4720.7	4694.8	4668.9	4667.9	4720.7
50°	5568.1	5551.7	5497.0	5450.0	5462.7	5394.0	5398.2	5328.6	5360.2	5363.9	5474.4
52.5°	6148.3	6205.7	6246.2	6295.6	6327.6	6333.7	6354.9	6386.4	6424.6	6499.9	6602.4
55°	6480.5	6552.5	6594.4	6632.1	6694.2	6707.4	6742.6	6784.5	6817.9	6902.6	6989.6
57.5°	6875.4	7009.0	7073.9	7133.7	7217.5	7249.5	7308.2	7353.9	7397.1	7497.4	7602.8
60°	7118.6	7281.4	7413.7	7508.2	7613.1	7688.4	7777.4	7848.9	7950.5	8070.5	8227.7
62.5°	6925.2	7164.3	7339.8	7502.1	7644.7	7788.6	7916.1	8049.9	8204.2	8385.8	8629.5
65°	6154.9	6398.2	6698.9	6867.3	7056.0	7278.1	7472.0	7688.4	7898.7	8163.3	8523.6
67.5°	4955.0	5237.8	5575.6	5745.5	5962.4	6210.4	6427.8	6692.2	6937.9	7258.4	7704.0
70°	3571.5	3937.1	4221.3	4398.8	4651.9	4907.4	5117.3	5425.0	5628.4	5956.8	6417.5
72.5°	2261.5	2550.0	2898.2	3121.7	3346.6	3605.5	3819.9	4085.3	4275.0	4574.3	4991.7
75°	1216.0	1428.6	1734.5	1946.7	2187.7	2408.8	2660.1	2837.9	2978.2	3214.8	3553.7
77.5°	569.8	699.2	854.1	1017.4	1180.6	1351.0	1516.6	1660.6	1720.9	1856.3	2056.3
80°	345.9	387.7	433.0	483.2	551.5	606.5	679.5	732.2	736.0	778.8	839.9
82.5°	231.0	246.6	260.2	272.9	290.3	304.0	319.5	337.9	345.4	355.3	375.1
85°	157.7	165.2	168.0	176.0	174.1	178.8	185.0	191.1	194.3	193.9	202.8
87.5°	96.9	100.7	102.6	104.5	103.0	101.2	104.0	107.3	108.3	105.4	106.3
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°	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9	807.9
2.5°	862.5	858.3	854.1	851.2	850.3	825.3	814.6	807.5	792.5	780.2	770.3
5°	951.4	942.5	935.5	927.0	922.3	859.3	836.2	820.2	793.8	778.3	764.2
7.5°	1094.5	1069.6	1055.0	1038.5	1024.5	910.5	872.4	847.4	810.8	790.1	774.1
10°	1256.9	1231.0	1207.9	1182.6	1160.4	978.8	923.3	884.6	836.2	809.3	788.2
12.5°	1438.1	1412.6	1383.4	1351.0	1322.7	1065.4	988.1	933.2	866.8	831.0	801.4
15°	1652.1	1607.5	1572.1	1534.5	1501.6	1168.9	1064.0	987.7	899.2	850.8	811.2
17.5°	1851.2	1804.1	1756.1	1723.1	1685.1	1285.1	1140.1	1043.2	926.1	863.4	813.1
20°	2045.5	1994.2	1952.8	1908.6	1868.6	1405.5	1221.5	1092.1	943.5	864.0	801.4
22.5°	2216.8	2184.8	2138.7	2090.7	2050.2	1526.0	1297.8	1133.6	950.0	853.1	780.6
25°	2411.6	2377.7	2321.3	2280.8	2235.6	1648.8	1372.7	1165.6	946.3	832.8	748.6
27.5°	2619.6	2582.0	2524.1	2481.8	2427.1	1776.3	1441.3	1188.7	932.2	800.0	705.9
30°	2836.5	2802.2	2745.2	2702.4	2647.4	1911.4	1518.0	1204.1	903.9	754.3	655.9
32.5°	3069.5	3040.7	2984.3	2939.5	2880.8	2057.7	1589.5	1208.9	861.1	700.2	603.3
35°	3290.6	3270.9	3223.3	3181.4	3120.3	2196.1	1665.4	1206.5	810.3	640.9	555.3
37.5°	3539.5	3527.8	3504.3	3451.1	3376.2	2383.8	1756.1	1196.6	748.2	582.0	518.6
40°	3804.9	3805.9	3780.4	3744.2	3674.6	2611.6	1864.4	1177.3	680.4	530.3	485.2
42.5°	4085.9	4100.5	4088.2	4062.4	3995.6	2841.2	1993.8	1153.8	614.6	480.0	452.2
45°	4407.7	4425.6	4444.4	4406.3	4341.4	3144.2	2164.0	1123.3	543.5	438.1	429.6
47.5°	4779.0	4807.2	4824.2	4824.6	4759.7	3519.7	2440.8	1104.9	480.4	409.9	418.8
50°	5562.4	5571.4	5611.4	5681.0	5631.2	4388.9	2924.1	1093.6	437.6	392.5	410.8
52.5°	6691.4	6789.7	6858.8	6854.1	6786.4	4940.8	3190.4	1035.2	412.2	385.8	407.1
55°	7151.1	7273.8	7401.9	7435.7	7383.1	5411.9	3442.1	976.9	400.0	390.5	408.5
57.5°	7763.7	7970.8	8146.3	8220.2	8144.0	6014.7	3773.4	946.3	396.2	403.3	417.4
60°	8479.5	8735.4	8966.0	9098.7	9098.7	6707.4	4116.9	933.6	391.1	422.1	432.4
62.5°	8939.2	9315.1	9663.3	9857.7	9852.1	7189.6	4269.3	890.3	379.3	435.2	453.2
65°	8941.0	9388.1	9831.9	10050.2	10061.5	7130.3	4017.6	786.3	357.7	437.1	473.9
67.5°	8195.7	8672.4	9189.6	9433.7	9490.2	6563.8	3477.9	646.6	322.3	418.4	481.4
70°	6921.9	7387.3	7915.3	8155.2	8255.4	5595.4	2801.2	498.4	277.1	376.9	465.8
72.5°	5453.3	5909.8	6277.2	6452.7	6530.9	4276.9	2039.9	376.5	227.3	317.6	423.9
75°	3861.0	4203.5	4398.8	4437.9	4450.1	2578.2	1239.5	280.0	187.3	247.0	358.1
77.5°	2179.2	2326.0	2310.0	2327.4	2182.4	995.2	539.7	200.4	154.3	187.7	277.6
80°	850.8	877.1	823.9	807.5	740.7	370.3	238.1	139.7	123.3	142.1	194.3
82.5°	375.1	387.3	375.9	378.8	362.3	191.1	142.5	101.2	94.1	104.0	128.9
85°	206.5	210.3	209.4	215.6	206.5	76.3	67.8	62.1	65.8	70.6	82.8
87.5°	100.7	101.6	98.4	103.5	100.2	38.6	33.4	35.3	38.6	39.5	39.5
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°	807.9	807.9	807.9	807.9	807.9	807.9
2.5°	763.2	759.5	759.9	759.0	757.1	757.1
5°	756.7	752.9	752.9	752.0	749.6	750.0
7.5°	763.2	757.1	754.8	751.5	748.2	748.2
10°	770.8	759.9	753.4	747.7	743.5	743.5
12.5°	776.4	759.5	748.6	741.1	736.9	736.9
15°	778.3	756.1	741.1	732.2	728.4	727.9
17.5°	772.2	743.5	725.1	714.8	710.1	708.7
20°	753.4	720.4	698.3	686.5	680.0	677.6
22.5°	725.1	687.5	661.6	649.4	640.9	639.5
25°	685.6	645.1	619.7	607.9	603.3	601.8
27.5°	639.5	601.8	580.2	572.7	568.4	568.0
30°	595.7	563.8	547.8	542.1	536.9	536.0
32.5°	554.8	534.6	528.4	520.4	508.3	506.7
35°	525.7	523.7	519.5	501.6	486.6	482.4
37.5°	507.7	525.1	503.5	468.2	457.3	456.5
40°	497.4	510.5	473.3	461.1	462.1	461.1
42.5°	473.9	487.5	474.3	468.7	472.5	473.3
45°	450.4	465.4	481.4	477.6	486.6	486.6
47.5°	437.1	459.7	480.9	480.9	494.1	498.8
50°	422.1	455.0	473.3	480.0	490.3	486.6
52.5°	421.1	447.0	462.6	474.3	479.0	474.7
55°	422.5	440.5	451.8	464.9	470.6	471.0
57.5°	424.5	436.7	444.2	450.4	467.2	467.2
60°	429.2	433.4	437.6	440.9	463.0	463.5
62.5°	436.7	430.1	429.2	432.4	460.7	458.8
65°	448.4	425.3	418.4	421.6	458.3	452.7
67.5°	464.4	418.4	404.7	407.1	456.5	444.2
70°	479.0	407.1	387.7	385.4	438.5	417.0
72.5°	480.4	393.9	364.2	357.1	381.2	360.5
75°	456.9	384.9	338.3	317.6	314.8	312.0
77.5°	411.7	379.8	308.3	275.7	270.1	272.0
80°	344.5	360.5	272.0	233.4	264.0	260.7
82.5°	257.3	318.1	231.0	206.5	206.1	182.1
85°	143.1	248.0	188.2	154.8	107.7	104.5
87.5°	40.0	137.9	131.8	87.5	59.7	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)