

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: P270132

Luminaire Tested: **GWC-AF-02-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270132
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-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12125.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

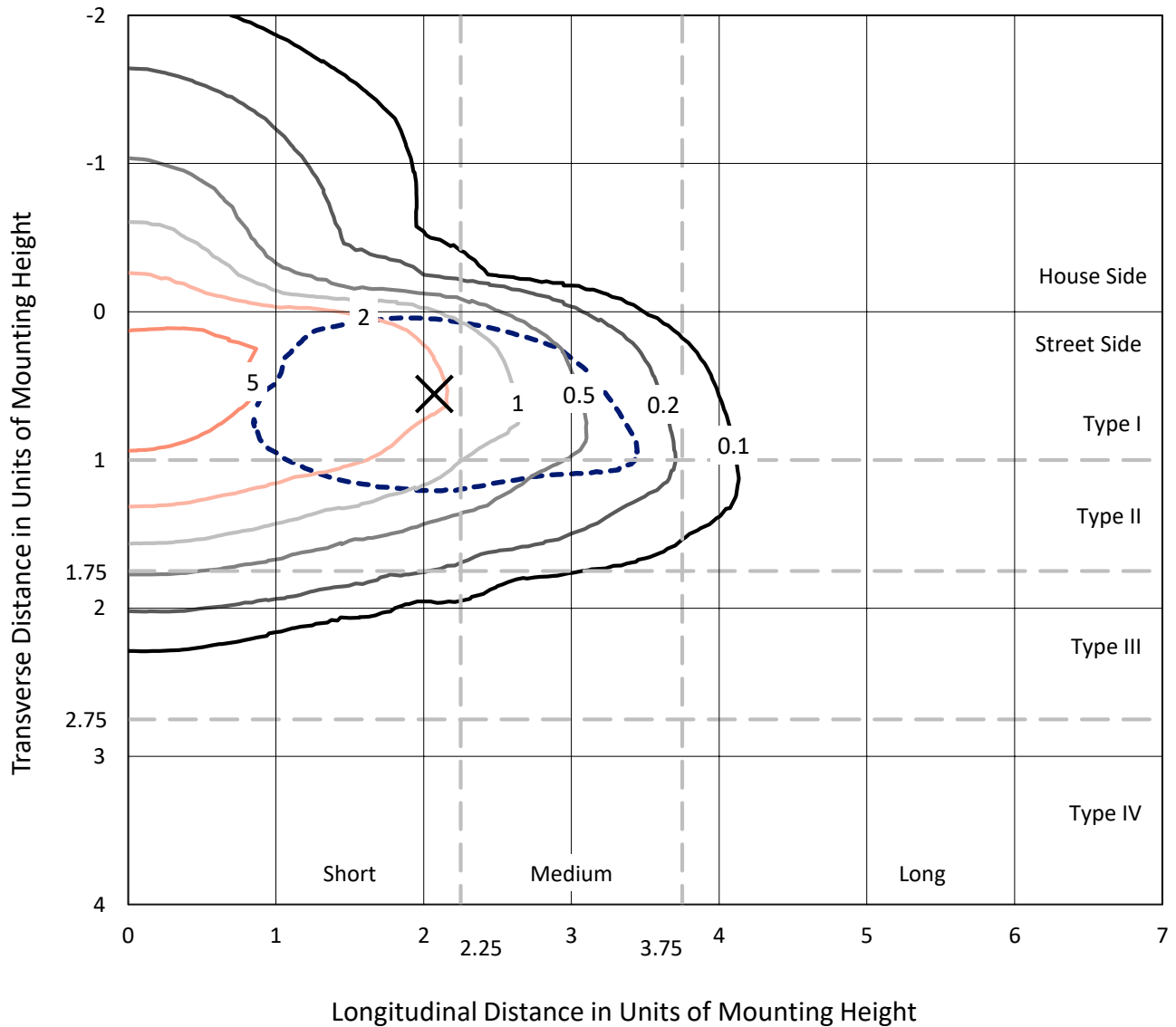
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

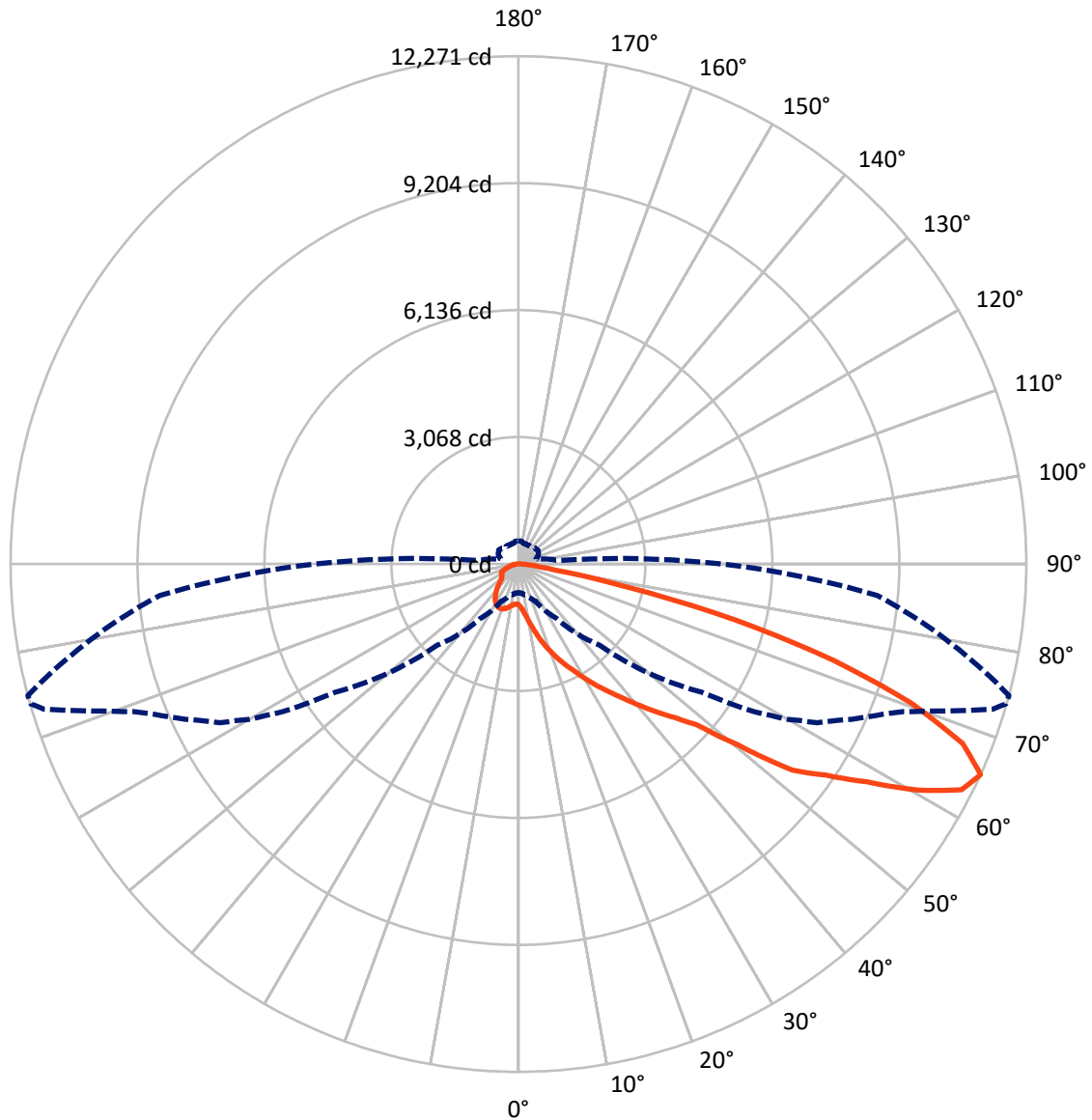
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	1869.4	0.0	1869.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10255.8	0.0	10255.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	12125.2	0.0	12125.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.0
10°-20°	475.9	3.9
20°-30°	976.4	8.1
30°-40°	1642.7	13.5
40°-50°	2269.8	18.7
50°-60°	2833.4	23.4
60°-70°	2549.7	21.0
70°-80°	1068.8	8.8
80°-90°	186.7	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°	12125.2	100.0
0°-180°	12125.2	100.0



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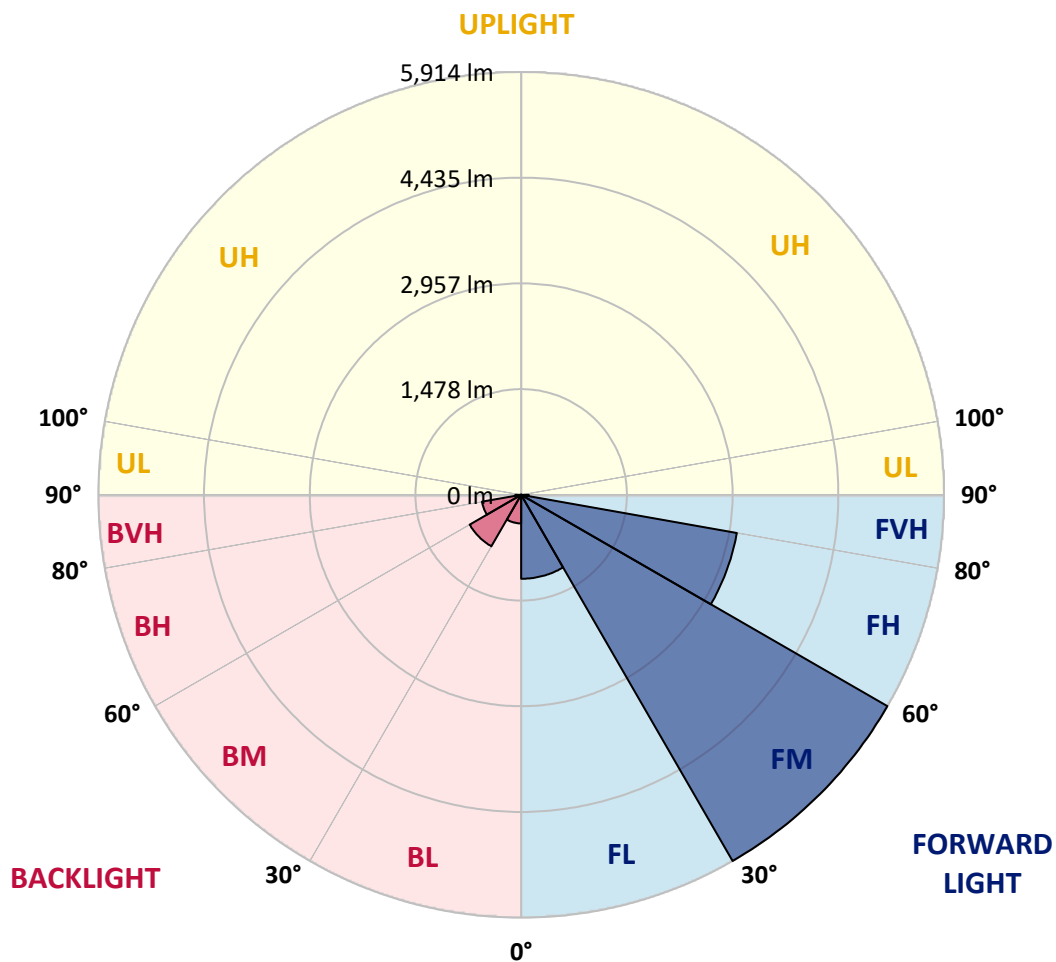
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1174.3	9.7			
FM	(30°-60°)	5913.8	48.8			
FH	(60°-80°)	3062.8	25.3			G2/5000
FVH	(80°-90°)	105.0	0.9			G2/225
BL	(0°-30°)	399.8	3.3	B1/500		
BM	(30°-60°)	832.1	6.9	B1/1000		
BH	(60°-80°)	555.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	81.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1251.2	1237.3	1240.8	1217.8	1189.7	1153.0	1112.3	1111.7	1112.3	1108.2	1093.2
5°	1734.9	1718.3	1712.0	1660.3	1584.6	1476.7	1359.6	1346.9	1341.8	1328.6	1298.2
7.5°	2087.9	2078.7	2068.9	2029.9	1961.1	1840.5	1683.2	1656.4	1630.5	1624.1	1589.8
10°	2315.7	2313.4	2292.7	2282.4	2239.4	2134.9	1981.7	1956.0	1927.8	1918.1	1881.9
12.5°	2495.9	2495.4	2485.6	2488.4	2451.2	2375.5	2243.4	2219.9	2199.2	2169.3	2143.6
15°	2620.5	2621.1	2635.4	2651.5	2645.7	2594.7	2470.7	2460.4	2442.6	2421.8	2391.5
17.5°	2722.6	2725.5	2740.5	2769.7	2801.3	2797.3	2699.0	2690.5	2675.1	2646.9	2630.9
20°	2953.4	2964.3	2935.6	2935.6	2939.0	2954.4	2907.5	2900.5	2878.7	2863.9	2851.2
22.5°	3343.0	3355.6	3290.8	3224.8	3160.0	3112.9	3065.8	3074.4	3059.5	3049.2	3041.8
25°	3849.2	3859.0	3753.9	3642.6	3510.6	3338.5	3222.0	3216.8	3208.7	3202.5	3199.0
27.5°	4325.6	4329.6	4230.3	4067.3	3914.1	3666.7	3380.3	3374.0	3364.2	3352.3	3341.9
30°	4733.1	4731.9	4629.7	4474.2	4310.1	4036.4	3620.8	3601.3	3572.6	3540.0	3514.6
32.5°	5086.0	5084.2	4972.3	4811.1	4638.8	4402.5	3950.3	3910.1	3865.2	3801.6	3763.1
35°	5363.8	5362.6	5257.1	5088.9	4891.5	4747.5	4327.9	4278.5	4221.7	4136.2	4077.0
37.5°	5468.9	5468.9	5409.7	5294.9	5120.4	5021.7	4747.5	4687.7	4626.9	4529.9	4463.3
40°	5407.3	5408.5	5421.2	5400.0	5314.9	5239.2	5138.8	5103.3	5051.0	4963.8	4894.2
42.5°	5201.4	5207.7	5291.5	5394.1	5436.6	5424.7	5486.0	5469.9	5433.2	5366.1	5311.0
45°	4940.2	4959.8	5051.5	5245.6	5470.5	5584.8	5777.0	5778.8	5771.8	5735.6	5693.2
47.5°	4581.5	4609.1	4730.1	4992.5	5391.4	5740.3	6072.5	6088.1	6102.4	6078.9	6059.3
50°	4105.3	4138.0	4319.2	4667.1	5230.0	5901.6	6631.0	6701.0	6766.4	6758.4	6771.6
52.5°	3595.0	3633.4	3855.5	4242.9	4952.8	5938.8	6988.0	7102.2	7216.4	7309.9	7409.2
55°	3134.7	3114.1	3336.1	3744.2	4497.2	5770.6	7308.8	7446.5	7574.0	7688.7	7807.0
57.5°	2510.9	2544.7	2767.4	3170.8	3894.1	5296.0	7529.8	7731.1	7914.2	8104.2	8271.9
60°	1835.3	1869.2	2110.9	2520.6	3239.2	4576.3	7361.0	7666.3	7959.6	8250.6	8477.8
62.5°	1108.2	1133.5	1346.5	1736.6	2497.7	3722.9	6609.2	7009.8	7441.4	7789.1	8137.5
65°	689.9	704.2	782.8	997.5	1604.0	2779.4	5400.0	5836.6	6301.5	6742.9	7105.1
67.5°	564.8	570.0	584.3	630.2	881.0	1812.3	4019.1	4405.9	4825.5	5252.4	5655.4
70°	507.9	504.4	504.4	507.3	564.8	974.5	2631.4	2883.4	3232.8	3604.2	3972.7
72.5°	458.6	455.1	448.9	440.2	460.8	594.5	1360.1	1550.1	1802.0	2132.1	2485.1
75°	412.1	407.5	400.0	389.1	403.5	448.9	653.1	732.9	855.7	1031.3	1228.2
77.5°	363.8	358.2	351.2	343.2	361.6	349.0	382.8	411.5	458.6	514.8	588.8
80°	309.3	304.3	301.9	297.9	319.6	265.7	270.4	288.1	315.7	346.1	380.5
82.5°	242.2	242.2	251.3	253.1	277.2	191.2	202.0	217.5	231.9	247.9	264.0
85°	159.6	160.7	191.7	203.7	218.6	128.5	151.5	156.7	168.2	177.3	184.2
87.5°	49.9	53.9	117.0	129.7	125.8	72.9	93.0	95.2	103.3	109.6	115.4
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°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1093.2	1086.4	1080.1	1079.6	1074.9	1068.6	1070.9	1061.2	1061.7	1056.6	1050.8
5°	1285.6	1280.9	1258.0	1251.7	1234.5	1223.6	1221.9	1198.9	1196.0	1182.8	1168.5
7.5°	1562.2	1547.2	1515.1	1499.6	1470.3	1448.5	1438.2	1407.8	1392.8	1358.4	1343.0
10°	1852.0	1833.1	1793.5	1771.6	1743.6	1708.6	1689.6	1645.4	1628.2	1596.6	1558.7
12.5°	2120.6	2101.6	2060.9	2044.3	2007.0	1969.6	1949.0	1899.1	1876.7	1826.2	1796.3
15°	2369.1	2350.1	2314.6	2297.4	2260.0	2229.7	2202.1	2152.8	2126.3	2079.2	2040.2
17.5°	2610.1	2590.0	2559.1	2543.6	2507.4	2476.4	2446.5	2400.1	2373.1	2326.1	2291.0
20°	2834.0	2819.1	2796.7	2776.0	2739.8	2711.7	2676.2	2636.0	2597.0	2562.5	2529.3
22.5°	3029.2	3023.3	2999.3	2990.1	2959.1	2934.9	2904.0	2864.4	2836.2	2792.7	2761.7
25°	3197.3	3195.5	3184.1	3181.2	3159.4	3136.4	3129.6	3096.9	3071.0	3032.5	3000.3
27.5°	3341.9	3343.6	3340.8	3348.8	3343.0	3332.7	3333.3	3322.4	3307.5	3275.3	3247.2
30°	3502.6	3493.4	3498.5	3510.0	3513.5	3514.6	3533.6	3540.0	3538.8	3517.6	3503.7
32.5°	3729.8	3708.0	3687.9	3686.2	3697.7	3702.3	3734.4	3751.1	3765.4	3770.6	3773.0
35°	4019.6	3976.1	3934.1	3911.8	3892.3	3897.4	3920.4	3947.4	3979.0	4000.7	4026.6
37.5°	4384.6	4331.3	4257.2	4204.5	4191.3	4162.6	4177.5	4198.7	4229.7	4263.5	4308.4
40°	4827.1	4746.3	4663.0	4593.0	4555.1	4502.4	4501.8	4497.7	4516.7	4548.3	4611.4
42.5°	5253.0	5181.3	5092.9	5019.5	4970.1	4899.4	4885.1	4847.9	4856.4	4884.0	4945.4
45°	5651.9	5592.8	5538.8	5453.9	5412.0	5335.7	5311.6	5267.4	5242.7	5255.4	5316.7
47.5°	6038.1	6000.3	5944.0	5888.9	5856.8	5788.5	5757.5	5725.9	5694.4	5693.2	5757.5
50°	6791.1	6771.0	6704.4	6647.0	6662.5	6578.7	6583.9	6499.0	6537.4	6542.1	6676.9
52.5°	7498.7	7568.8	7618.2	7678.4	7717.4	7724.9	7750.7	7789.1	7835.6	7927.5	8052.5
55°	7903.9	7991.7	8042.8	8088.7	8164.4	8180.5	8223.5	8274.6	8315.4	8418.6	8524.9
57.5°	8385.4	8548.5	8627.7	8700.5	8802.7	8841.7	8913.4	8969.1	9021.9	9144.1	9272.7
60°	8682.2	8880.7	9042.0	9157.3	9285.3	9377.1	9485.6	9572.8	9696.8	9843.2	10034.9
62.5°	8446.2	8737.8	8951.9	9149.9	9323.8	9499.4	9654.9	9817.8	10006.1	10227.7	10524.9
65°	7506.8	7803.5	8170.3	8375.6	8605.9	8876.7	9113.1	9377.1	9633.7	9956.3	10395.8
67.5°	6043.3	6388.2	6800.3	7007.5	7272.0	7574.5	7839.7	8162.2	8461.8	8852.5	9396.1
70°	4356.0	4802.0	5148.5	5364.9	5673.7	5985.3	6241.3	6616.6	6864.6	7265.1	7827.0
72.5°	2758.2	3110.0	3534.7	3807.3	4081.7	4397.3	4659.1	4982.6	5214.0	5579.0	6088.1
75°	1483.0	1742.4	2115.4	2374.3	2668.1	2937.8	3244.3	3461.3	3632.3	3920.9	4334.1
77.5°	695.0	852.9	1041.7	1240.8	1439.9	1647.7	1849.7	2025.3	2098.8	2264.1	2508.0
80°	421.8	472.9	527.9	589.5	672.6	739.8	828.7	893.0	897.6	949.8	1024.5
82.5°	281.8	300.8	317.4	332.9	354.1	370.8	389.7	412.1	421.2	433.3	457.4
85°	192.3	201.5	204.9	214.7	212.4	218.0	225.6	233.0	237.1	236.5	247.4
87.5°	118.2	122.8	125.1	127.5	125.8	123.4	126.8	130.8	132.0	128.5	129.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1052.0	1046.9	1041.7	1038.2	1037.0	1006.6	993.4	984.8	966.5	951.6	939.4
5°	1160.4	1149.6	1140.9	1130.6	1124.9	1048.0	1019.8	1000.4	968.2	949.2	932.1
7.5°	1335.0	1304.4	1286.7	1266.6	1249.4	1110.6	1064.0	1033.7	988.9	963.6	944.1
10°	1533.0	1501.4	1473.2	1442.2	1415.3	1193.7	1125.9	1079.0	1019.8	987.1	961.3
12.5°	1753.9	1722.9	1687.3	1647.7	1613.3	1299.4	1205.2	1138.1	1057.2	1013.6	977.4
15°	2015.0	1960.5	1917.4	1871.5	1831.4	1425.5	1297.6	1204.6	1096.7	1037.6	989.5
17.5°	2257.7	2200.3	2141.8	2101.6	2055.2	1567.4	1390.7	1272.4	1129.4	1053.2	991.7
20°	2494.8	2432.3	2381.8	2327.8	2279.0	1714.2	1489.9	1332.1	1150.6	1053.7	977.4
22.5°	2703.7	2664.7	2608.5	2549.9	2500.5	1861.2	1582.8	1382.5	1158.7	1040.5	952.1
25°	2941.3	2899.9	2831.2	2781.8	2726.6	2011.0	1674.1	1421.6	1154.1	1015.8	913.1
27.5°	3195.0	3149.1	3078.4	3026.8	2960.3	2166.5	1757.9	1449.7	1136.9	975.6	860.8
30°	3459.6	3417.7	3348.3	3296.0	3228.9	2331.3	1851.4	1468.5	1102.5	920.0	800.0
32.5°	3743.6	3708.6	3639.8	3585.3	3513.5	2509.8	1938.6	1474.4	1050.2	854.0	735.8
35°	4013.4	3989.3	3931.3	3880.2	3805.7	2678.4	2031.1	1471.5	988.3	781.6	677.2
37.5°	4317.0	4302.6	4273.9	4209.0	4117.7	2907.5	2141.8	1459.4	912.6	709.9	632.5
40°	4640.6	4641.8	4610.8	4566.6	4481.7	3185.2	2273.9	1435.9	829.9	646.9	591.7
42.5°	4983.3	5001.0	4986.1	4954.6	4873.0	3465.2	2431.7	1407.2	749.5	585.3	551.5
45°	5375.8	5397.6	5420.6	5374.1	5294.9	3834.9	2639.4	1369.9	662.9	534.3	524.0
47.5°	5828.7	5863.1	5883.7	5884.3	5805.1	4292.9	2976.8	1347.5	586.0	499.9	510.8
50°	6784.2	6795.1	6843.9	6928.8	6868.0	5352.9	3566.3	1333.8	533.8	478.6	501.1
52.5°	8161.0	8281.0	8365.3	8359.6	8276.9	6026.0	3891.1	1262.6	502.8	470.6	496.4
55°	8721.7	8871.6	9027.6	9069.0	9004.7	6600.5	4198.1	1191.5	487.9	476.4	498.1
57.5°	9469.0	9721.5	9935.6	10025.6	9932.7	7335.7	4602.2	1154.1	483.2	491.9	509.1
60°	10341.9	10654.1	10935.2	11097.2	11097.2	8180.5	5021.2	1138.6	476.9	514.8	527.4
62.5°	10902.5	11361.1	11785.9	12022.8	12016.0	8768.8	5207.1	1085.9	462.5	530.9	552.6
65°	10904.9	11450.2	11991.3	12257.6	12271.4	8696.5	4900.1	958.9	436.2	533.1	578.0
67.5°	9995.8	10577.2	11208.0	11505.8	11574.7	8005.5	4241.8	788.5	393.2	510.2	587.1
70°	8442.2	9009.8	9653.7	9946.5	10068.7	6824.3	3416.5	607.8	338.1	459.8	568.2
72.5°	6651.1	7207.8	7656.0	7870.1	7965.3	5216.3	2487.9	459.2	277.2	387.3	517.1
75°	4708.9	5126.7	5364.9	5412.6	5427.5	3144.4	1511.8	341.4	228.3	301.3	436.8
77.5°	2657.7	2836.8	2817.4	2838.6	2661.9	1213.8	658.3	244.5	188.3	229.0	338.6
80°	1037.6	1069.7	1004.8	984.8	903.2	451.7	290.4	170.5	150.3	173.3	237.1
82.5°	457.4	472.3	458.6	462.0	441.9	233.0	173.8	123.4	114.8	126.8	157.3
85°	251.9	256.6	255.4	262.8	251.9	93.0	82.6	75.7	80.4	86.1	101.1
87.5°	122.8	124.0	119.9	126.3	122.3	47.1	40.7	43.0	47.1	48.2	48.2
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°	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	930.9	926.2	926.9	925.7	923.5	923.5
5°	922.9	918.2	918.2	917.1	914.3	914.7
7.5°	930.9	923.5	920.6	916.5	912.6	912.6
10°	940.1	926.9	918.8	912.0	906.7	906.7
12.5°	947.0	926.2	913.1	903.9	898.8	898.8
15°	949.2	922.3	903.9	893.0	888.4	887.9
17.5°	941.8	906.7	884.4	871.7	866.1	864.3
20°	918.8	878.7	851.7	837.3	829.3	826.4
22.5°	884.4	838.5	806.9	792.0	781.6	780.0
25°	836.2	786.8	755.8	741.5	735.8	734.1
27.5°	780.0	734.1	707.6	698.4	693.2	692.7
30°	726.5	687.6	668.1	661.2	654.9	653.7
32.5°	676.6	652.0	644.5	634.7	619.8	618.1
35°	641.0	638.7	633.6	611.8	593.4	588.3
37.5°	619.2	640.5	614.1	571.0	557.8	556.7
40°	606.6	622.7	577.3	562.4	563.6	562.4
42.5°	578.0	594.5	578.5	571.6	576.2	577.3
45°	549.2	567.6	587.1	582.5	593.4	593.4
47.5°	533.1	560.6	586.5	586.5	602.7	608.3
50°	514.8	555.0	577.3	585.3	598.0	593.4
52.5°	513.7	545.3	564.1	578.5	584.3	579.1
55°	515.4	537.2	550.9	567.0	573.9	574.5
57.5°	517.6	532.6	541.8	549.2	570.0	570.0
60°	523.4	528.6	533.8	537.7	564.8	565.3
62.5°	532.6	524.6	523.4	527.4	561.8	559.6
65°	547.0	518.8	510.2	514.3	559.0	552.1
67.5°	566.5	510.2	493.5	496.4	556.7	541.8
70°	584.3	496.4	472.9	470.1	534.9	508.4
72.5°	586.0	480.4	444.2	435.6	464.9	439.5
75°	557.3	469.5	412.7	387.3	383.9	380.5
77.5°	502.2	463.2	375.9	336.3	329.4	331.7
80°	420.1	439.5	331.7	284.7	322.0	317.9
82.5°	314.0	388.0	281.8	251.9	251.3	222.2
85°	174.5	302.5	229.5	188.8	131.4	127.5
87.5°	48.8	168.2	160.7	106.7	72.9	75.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)