

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: P200182

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200182
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-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 10696 lumens
Efficiency: N/A
Efficacy: 124.4 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

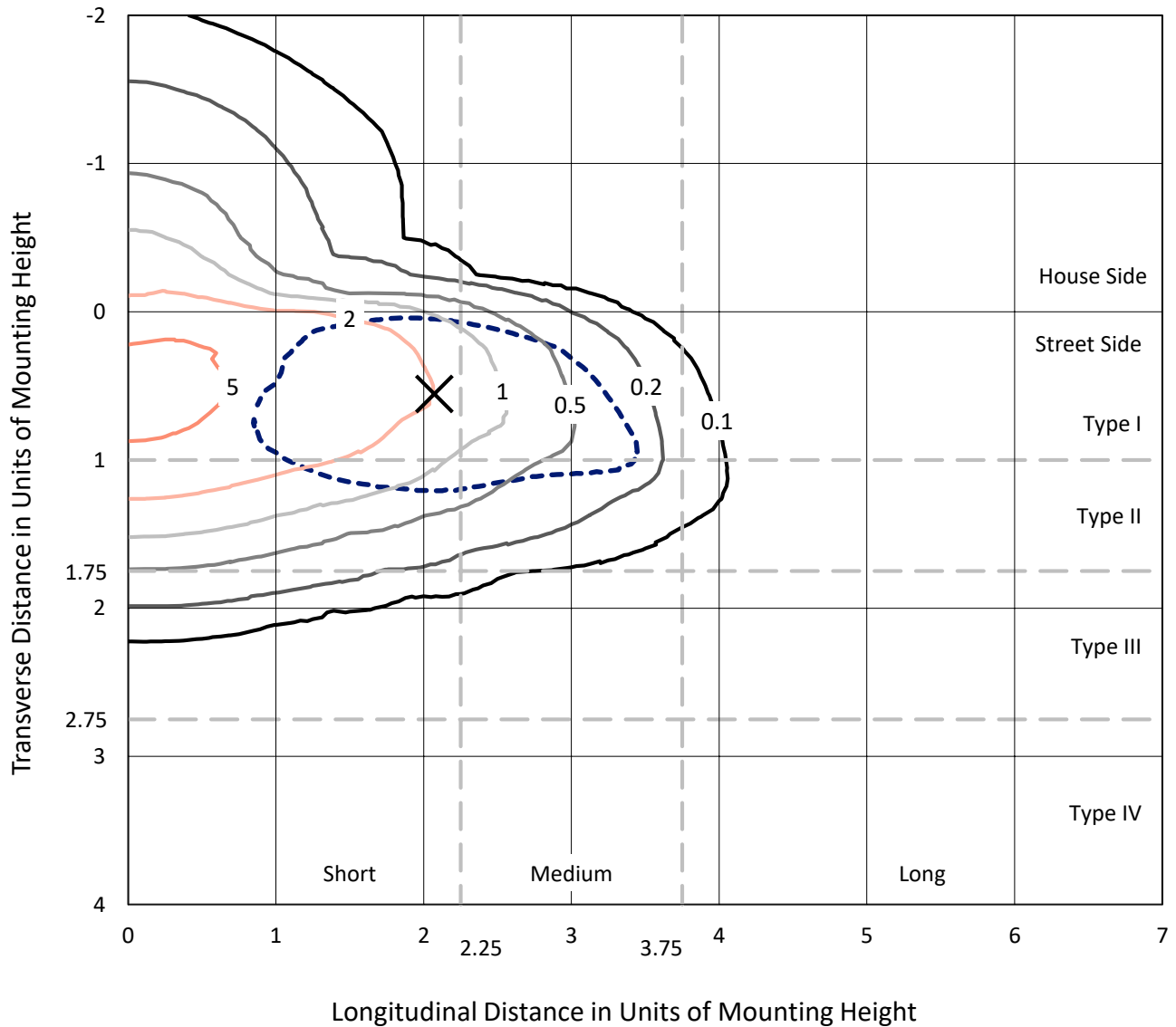
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

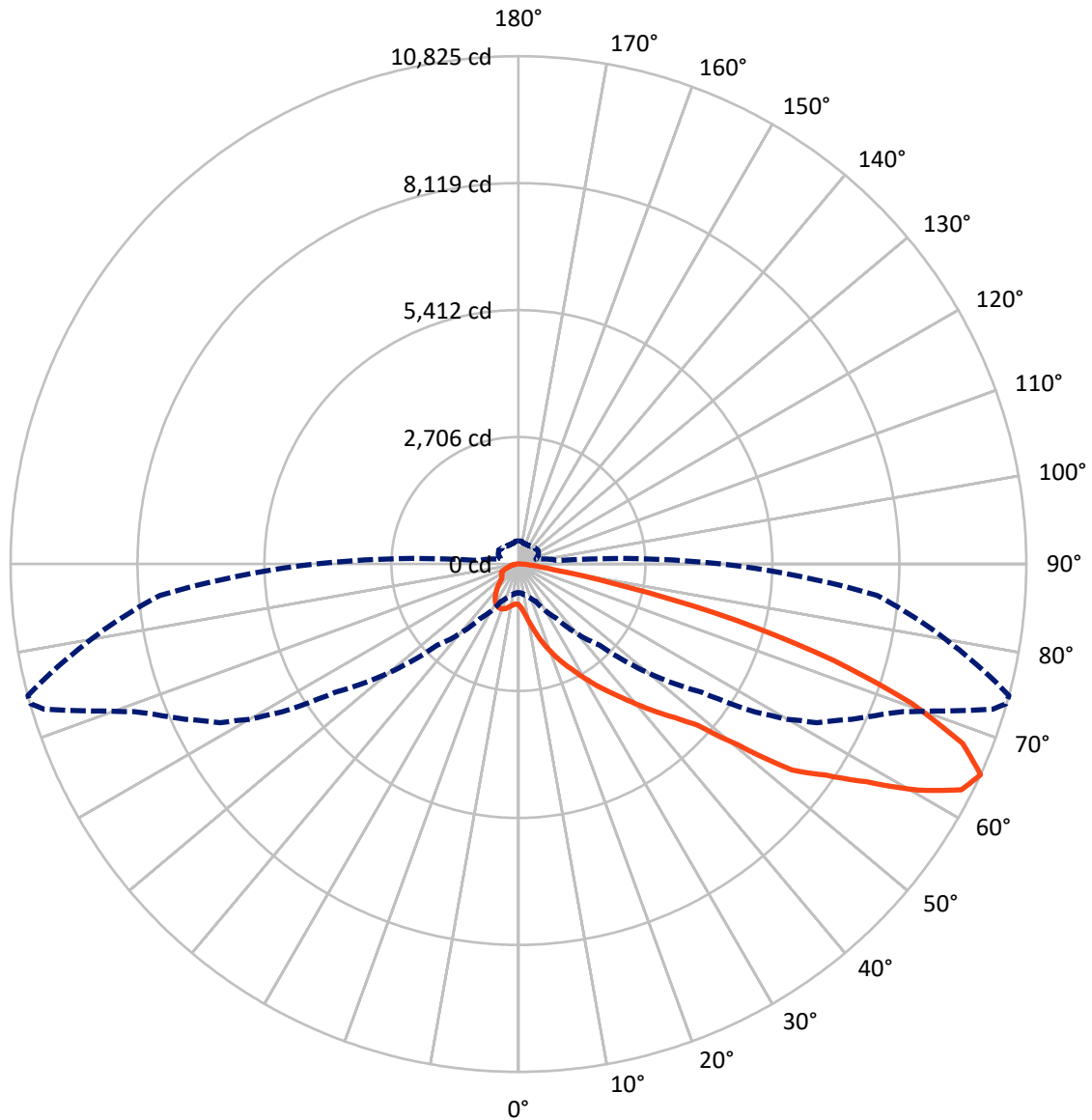
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1649.1	0.0	1649.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9046.9	0.0	9046.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	10696.0	0.0	10696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.0
10°-20°	419.8	3.9
20°-30°	861.3	8.1
30°-40°	1449.1	13.5
40°-50°	2002.2	18.7
50°-60°	2499.4	23.4
60°-70°	2249.2	21.0
70°-80°	942.8	8.8
80°-90°	164.7	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°	10696.0	100.0
0°-180°	10696.0	100.0

Coefficient of Utilization



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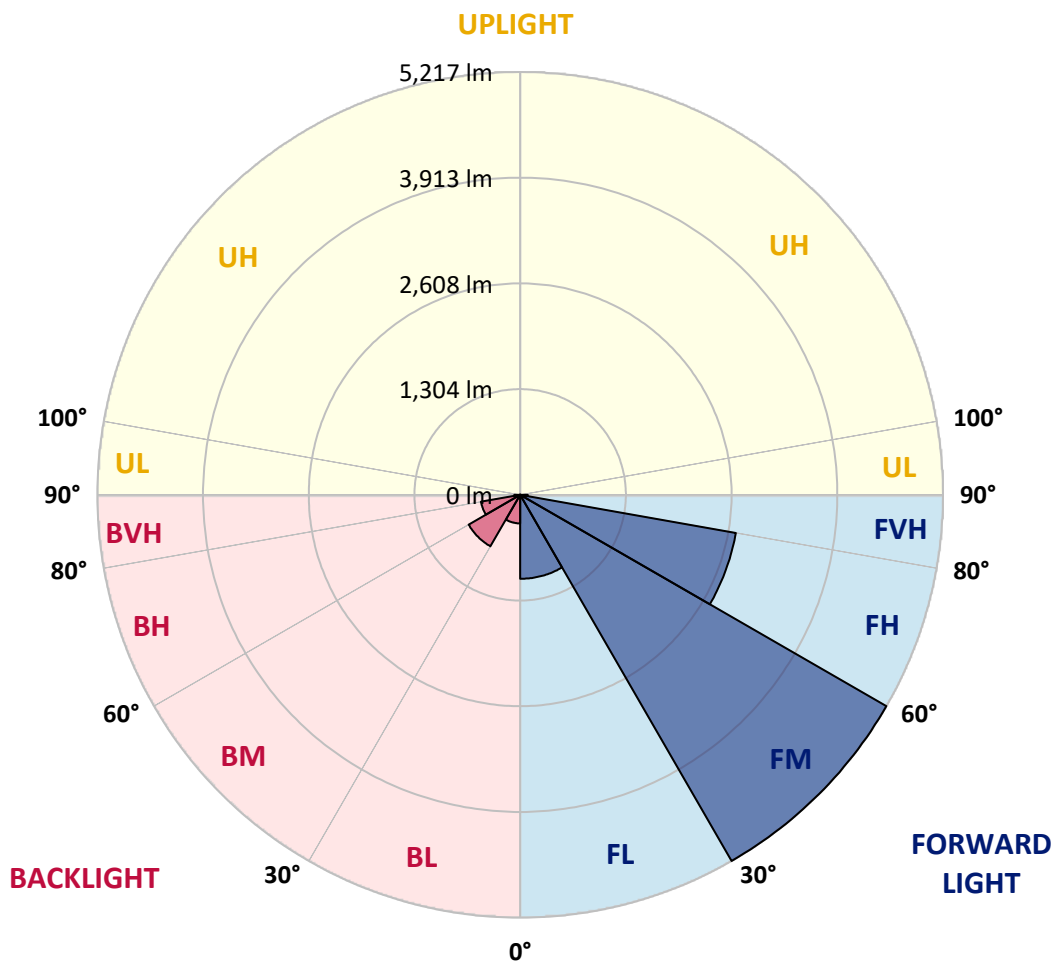
CATALOG NUMBER: GWC-AF-02-LED-E1-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.9	9.7			
FM (30°-60°)	5216.7	48.8			
FH (60°-80°)	2701.8	25.3			G2/5000
FVH (80°-90°)	92.6	0.9			G1/100
BL (0°-30°)	352.7	3.3	B1/500		
BM (30°-60°)	734.0	6.9	B1/1000		
BH (60°-80°)	490.3	4.6	B1/500		G1/500
BVH (80°-90°)	72.1	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°	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3
2.5°	1103.7	1091.5	1094.6	1074.3	1049.4	1017.1	981.1	980.6	981.1	977.6	964.4
5°	1530.4	1515.7	1510.2	1464.7	1397.8	1302.6	1199.3	1188.2	1183.7	1172.0	1145.2
7.5°	1841.8	1833.6	1825.0	1790.7	1729.9	1623.6	1484.9	1461.1	1438.3	1432.7	1402.4
10°	2042.7	2040.8	2022.5	2013.4	1975.4	1883.3	1748.1	1725.3	1700.6	1692.0	1660.0
12.5°	2201.7	2201.2	2192.6	2195.2	2162.2	2095.4	1979.0	1958.2	1940.0	1913.6	1890.9
15°	2311.6	2312.1	2324.8	2339.0	2333.9	2288.9	2179.5	2170.4	2154.6	2136.4	2109.6
17.5°	2401.7	2404.2	2417.4	2443.2	2471.0	2467.6	2380.9	2373.3	2359.6	2334.9	2320.7
20°	2605.3	2614.9	2589.5	2589.5	2592.6	2606.3	2564.7	2558.6	2539.4	2526.3	2515.1
22.5°	2949.0	2960.1	2902.9	2844.7	2787.4	2746.0	2704.5	2712.0	2698.9	2689.7	2683.2
25°	3395.5	3404.1	3311.5	3213.3	3096.8	2945.0	2842.2	2837.6	2830.5	2825.0	2821.9
27.5°	3815.7	3819.3	3731.6	3587.9	3452.7	3234.5	2981.9	2976.3	2967.7	2957.0	2947.9
30°	4175.2	4174.2	4084.0	3946.9	3802.0	3560.6	3194.0	3176.8	3151.5	3122.7	3100.4
32.5°	4486.5	4485.0	4386.2	4244.0	4092.1	3883.5	3484.6	3449.2	3409.7	3353.4	3319.6
35°	4731.6	4730.5	4637.3	4489.0	4314.9	4187.8	3817.8	3774.2	3724.1	3648.7	3596.5
37.5°	4824.1	4824.1	4772.1	4670.8	4516.8	4429.8	4187.8	4135.2	4081.5	3996.0	3937.2
40°	4770.0	4771.0	4782.2	4763.5	4688.5	4621.7	4533.1	4501.7	4455.6	4378.6	4317.4
42.5°	4588.2	4593.9	4667.7	4758.4	4795.8	4785.2	4839.4	4825.2	4792.8	4733.6	4684.9
45°	4357.9	4375.2	4456.1	4627.2	4825.7	4926.4	5096.0	5097.6	5091.4	5059.6	5022.1
47.5°	4041.5	4065.8	4172.6	4404.0	4755.8	5063.6	5356.8	5370.4	5383.1	5362.3	5345.1
50°	3621.2	3650.2	3810.1	4117.0	4613.6	5205.9	5849.3	5911.1	5968.8	5961.8	5973.4
52.5°	3171.2	3205.1	3401.1	3742.8	4369.0	5238.8	6164.2	6265.0	6365.7	6448.3	6535.8
55°	2765.2	2746.9	2942.9	3302.9	3967.1	5090.5	6447.2	6568.8	6681.1	6782.4	6886.7
57.5°	2214.9	2244.8	2441.2	2797.1	3435.0	4671.8	6642.1	6819.9	6981.3	7148.9	7296.8
60°	1619.0	1648.9	1862.1	2223.5	2857.3	4037.0	6493.3	6762.6	7021.3	7278.0	7478.5
62.5°	977.6	999.8	1187.6	1532.0	2203.2	3284.1	5830.1	6183.5	6564.2	6871.0	7178.3
65°	608.6	621.1	690.5	879.8	1415.0	2451.8	4763.5	5148.7	5558.7	5948.0	6267.5
67.5°	498.2	502.7	515.4	555.9	777.1	1598.8	3545.3	3886.6	4256.7	4633.4	4988.7
70°	448.1	445.0	445.0	447.5	498.2	859.6	2321.2	2543.5	2851.8	3179.3	3504.3
72.5°	404.5	401.5	395.9	388.3	406.5	524.5	1199.8	1367.4	1589.7	1880.8	2192.1
75°	363.5	359.5	352.8	343.2	355.9	395.9	576.1	646.5	754.8	909.7	1083.4
77.5°	321.0	315.9	309.9	302.8	319.0	307.8	337.7	362.9	404.5	454.1	519.5
80°	272.9	268.3	266.3	262.8	282.0	234.4	238.4	254.1	278.4	305.2	335.6
82.5°	213.6	213.6	221.8	223.3	244.5	168.6	178.2	191.9	204.5	218.7	232.9
85°	140.8	141.8	169.1	179.7	192.9	113.4	133.7	138.2	148.3	156.4	162.5
87.5°	44.1	47.6	103.3	114.4	110.9	64.3	82.0	84.1	91.1	96.7	101.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3
2.5°	964.4	958.4	952.8	952.3	948.3	942.6	944.7	936.1	936.6	932.0	927.0
5°	1134.0	1130.0	1109.7	1104.2	1088.9	1079.3	1077.9	1057.6	1055.1	1043.4	1030.7
7.5°	1378.0	1364.9	1336.5	1322.9	1297.0	1277.8	1268.7	1241.9	1228.7	1198.3	1184.7
10°	1633.8	1617.0	1582.1	1562.9	1538.0	1507.1	1490.4	1451.5	1436.2	1408.4	1375.1
12.5°	1870.7	1853.9	1818.0	1803.3	1770.4	1737.5	1719.3	1675.2	1655.4	1610.9	1584.6
15°	2089.9	2073.1	2041.7	2026.6	1993.6	1966.8	1942.5	1899.0	1875.7	1834.2	1799.8
17.5°	2302.5	2284.8	2257.4	2243.7	2211.8	2184.5	2158.2	2117.2	2093.4	2051.8	2021.0
20°	2499.9	2486.8	2467.1	2448.8	2416.9	2392.1	2360.7	2325.3	2290.8	2260.4	2231.1
22.5°	2672.0	2667.0	2645.8	2637.6	2610.3	2589.0	2561.7	2526.8	2501.9	2463.5	2436.2
25°	2820.4	2818.8	2808.7	2806.3	2786.9	2766.7	2760.6	2731.8	2709.0	2675.1	2646.8
27.5°	2947.9	2949.5	2946.9	2954.1	2949.0	2939.9	2940.4	2930.8	2917.6	2889.2	2864.5
30°	3089.7	3081.6	3086.1	3096.3	3099.3	3100.4	3117.0	3122.7	3121.6	3102.9	3090.7
32.5°	3290.2	3271.0	3253.3	3251.8	3261.9	3265.9	3294.2	3308.9	3321.6	3326.1	3328.2
35°	3545.9	3507.4	3470.5	3450.7	3433.4	3438.0	3458.3	3482.0	3509.9	3529.2	3551.9
37.5°	3867.9	3820.7	3755.5	3708.9	3697.3	3671.9	3685.1	3703.8	3731.1	3761.0	3800.5
40°	4258.1	4186.8	4113.4	4051.6	4018.3	3971.6	3971.1	3967.6	3984.3	4012.1	4067.9
42.5°	4633.9	4570.5	4492.6	4427.7	4384.3	4322.0	4309.3	4276.4	4284.0	4308.3	4362.5
45°	4985.7	4933.5	4885.9	4811.0	4774.0	4706.7	4685.4	4646.4	4624.7	4635.8	4690.0
47.5°	5326.4	5293.0	5243.3	5194.7	5166.4	5106.2	5078.8	5051.0	5023.1	5022.1	5078.8
50°	5990.6	5972.9	5914.2	5863.6	5877.2	5803.3	5807.8	5732.9	5766.9	5770.9	5889.8
52.5°	6614.8	6676.6	6720.2	6773.3	6807.7	6814.3	6837.1	6871.0	6912.0	6993.0	7103.4
55°	6972.2	7049.7	7094.8	7135.3	7202.1	7216.3	7254.3	7299.3	7335.3	7426.3	7520.0
57.5°	7397.0	7540.8	7610.7	7674.9	7765.0	7799.5	7862.8	7911.9	7958.5	8066.3	8179.7
60°	7658.7	7833.9	7976.2	8077.9	8190.9	8271.8	8367.5	8444.5	8553.8	8682.9	8852.0
62.5°	7450.7	7707.8	7896.7	8071.4	8224.7	8379.6	8516.9	8660.6	8826.6	9022.1	9284.3
65°	6621.9	6883.6	7207.2	7388.4	7591.4	7830.4	8039.0	8271.8	8498.2	8782.6	9170.4
67.5°	5330.9	5635.2	5998.7	6181.5	6414.8	6681.6	6915.6	7200.0	7464.4	7809.1	8288.6
70°	3842.5	4235.9	4541.7	4732.6	5004.9	5279.9	5505.6	5836.7	6055.4	6408.8	6904.4
72.5°	2433.1	2743.5	3118.1	3358.6	3600.6	3879.0	4109.8	4395.4	4599.4	4921.4	5370.4
75°	1308.1	1537.0	1866.1	2094.4	2353.6	2591.5	2861.9	3053.3	3204.1	3458.8	3823.3
77.5°	613.1	752.3	918.9	1094.6	1270.2	1453.5	1631.7	1786.6	1851.4	1997.2	2212.3
80°	372.1	417.2	465.7	520.0	593.3	652.5	731.0	787.8	791.8	837.9	903.7
82.5°	248.6	265.3	280.0	293.6	312.4	327.0	343.7	363.5	371.6	382.3	403.5
85°	169.6	177.7	180.8	189.3	187.3	192.4	199.0	205.5	209.1	208.6	218.2
87.5°	104.3	108.3	110.4	112.4	110.9	108.8	111.9	115.4	116.4	113.4	114.4
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3	869.3
2.5°	928.0	923.4	918.9	915.8	914.8	888.0	876.4	868.8	852.5	839.4	828.8
5°	1023.7	1014.1	1006.5	997.4	992.3	924.4	899.6	882.4	854.1	837.4	822.1
7.5°	1177.5	1150.7	1135.1	1117.4	1102.1	979.6	938.7	911.8	872.3	850.0	832.8
10°	1352.2	1324.4	1299.6	1272.2	1248.4	1053.0	993.3	951.8	899.6	870.7	848.0
12.5°	1547.1	1519.8	1488.4	1453.5	1423.1	1146.2	1063.2	1003.9	932.5	894.1	862.1
15°	1777.5	1729.4	1691.4	1650.9	1615.4	1257.5	1144.7	1062.6	967.5	915.3	872.8
17.5°	1991.7	1941.0	1889.4	1853.9	1813.0	1382.6	1226.7	1122.4	996.4	928.9	874.8
20°	2200.7	2145.5	2101.0	2053.4	2010.4	1512.2	1314.3	1175.1	1015.1	929.5	862.1
22.5°	2385.0	2350.5	2300.9	2249.4	2205.8	1641.8	1396.2	1219.6	1022.1	917.9	839.8
25°	2594.6	2558.1	2497.4	2453.9	2405.3	1773.9	1476.7	1254.0	1018.1	896.1	805.5
27.5°	2818.3	2777.8	2715.6	2670.0	2611.3	1911.2	1550.7	1278.8	1002.9	860.6	759.4
30°	3051.8	3014.8	2953.6	2907.4	2848.2	2056.4	1633.2	1295.6	972.5	811.5	705.7
32.5°	3302.4	3271.5	3210.7	3162.7	3099.3	2213.9	1710.2	1300.6	926.5	753.3	649.1
35°	3540.3	3519.1	3467.9	3422.8	3357.0	2362.7	1791.7	1298.0	871.8	689.6	597.4
37.5°	3808.1	3795.5	3770.1	3712.9	3632.4	2564.7	1889.4	1287.4	805.0	626.3	557.9
40°	4093.6	4094.7	4067.4	4028.4	3953.4	2809.7	2005.8	1266.6	732.0	570.6	521.9
42.5°	4395.9	4411.6	4398.4	4370.6	4298.6	3056.8	2145.0	1241.4	661.1	516.4	486.5
45°	4742.2	4761.4	4781.7	4740.7	4670.8	3382.8	2328.3	1208.4	584.7	471.4	462.2
47.5°	5141.6	5171.9	5190.2	5190.7	5120.9	3786.9	2626.0	1188.7	516.9	441.0	450.6
50°	5984.6	5994.2	6037.1	6112.1	6058.4	4721.9	3145.9	1176.6	470.9	422.2	442.0
52.5°	7199.0	7304.9	7379.3	7374.2	7301.3	5315.8	3432.4	1113.8	443.4	415.1	437.9
55°	7693.7	7825.8	7963.5	8000.0	7943.2	5822.5	3703.3	1051.0	430.4	420.2	439.5
57.5°	8352.8	8575.6	8764.4	8843.9	8761.9	6471.1	4059.7	1018.1	426.3	433.8	449.1
60°	9122.9	9398.3	9646.3	9789.1	9789.1	7216.3	4429.3	1004.4	420.7	454.1	465.2
62.5°	9617.5	10022.0	10396.6	10605.6	10599.6	7735.1	4593.4	957.9	408.1	468.3	487.5
65°	9619.5	10100.4	10577.8	10812.8	10824.9	7671.4	4322.5	846.0	384.7	470.4	509.8
67.5°	8817.5	9330.4	9886.8	10149.5	10210.3	7061.8	3741.7	695.6	346.8	450.1	517.9
70°	7447.1	7947.8	8515.9	8774.1	8881.9	6020.0	3013.8	536.1	298.2	405.5	501.2
72.5°	5867.0	6358.2	6753.5	6942.4	7026.4	4601.4	2194.6	405.0	244.5	341.8	456.1
75°	4153.9	4522.5	4732.6	4774.5	4787.7	2773.8	1333.5	301.3	201.5	265.8	385.2
77.5°	2344.5	2502.4	2485.3	2504.0	2348.1	1070.7	580.7	215.6	166.0	202.0	298.7
80°	915.3	943.7	886.5	868.8	796.9	398.4	256.1	150.4	132.7	152.9	209.1
82.5°	403.5	416.6	404.5	407.5	389.8	205.5	153.4	108.8	101.3	111.9	138.7
85°	222.3	226.3	225.3	231.9	222.3	82.0	72.9	66.8	70.9	75.9	89.1
87.5°	108.3	109.4	105.8	111.4	107.8	41.5	35.9	38.0	41.5	42.6	42.6
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):

	135°	145°	155°	165°	175°	180°
0°	869.3	869.3	869.3	869.3	869.3	869.3
2.5°	821.1	817.1	817.6	816.6	814.6	814.6
5°	814.1	810.0	810.0	809.1	806.5	807.0
7.5°	821.1	814.6	812.0	808.5	805.0	805.0
10°	829.3	817.6	810.5	804.4	799.8	799.8
12.5°	835.3	817.1	805.5	797.4	792.8	792.8
15°	837.4	813.6	797.4	787.8	783.7	783.2
17.5°	830.7	799.8	780.1	769.1	763.9	762.4
20°	810.5	775.1	751.3	738.7	731.5	729.1
22.5°	780.1	739.7	711.8	698.7	689.6	688.0
25°	737.6	694.1	666.8	654.1	649.1	647.5
27.5°	688.0	647.5	624.2	616.1	611.5	611.0
30°	640.9	606.5	589.3	583.2	577.7	576.6
32.5°	596.9	575.1	568.6	560.0	546.8	545.2
35°	565.5	563.4	558.9	539.7	523.4	518.9
37.5°	546.3	565.0	541.7	503.7	492.0	491.1
40°	535.1	549.3	509.3	496.1	497.2	496.1
42.5°	509.8	524.5	510.4	504.2	508.3	509.3
45°	484.5	500.7	517.9	513.8	523.4	523.4
47.5°	470.4	494.6	517.4	517.4	531.5	536.6
50°	454.1	489.6	509.3	516.4	527.5	523.4
52.5°	453.1	481.0	497.7	510.4	515.4	510.9
55°	454.6	473.8	486.0	500.2	506.3	506.8
57.5°	456.6	469.8	477.9	484.5	502.7	502.7
60°	461.8	466.3	470.9	474.3	498.2	498.7
62.5°	469.8	462.7	461.8	465.2	495.6	493.6
65°	482.4	457.7	450.1	453.6	493.1	487.0
67.5°	499.7	450.1	435.4	437.9	491.1	477.9
70°	515.4	437.9	417.2	414.6	471.9	448.6
72.5°	516.9	423.7	391.9	384.2	410.1	387.8
75°	491.6	414.1	364.0	341.8	338.7	335.6
77.5°	442.9	408.6	331.6	296.7	290.6	292.7
80°	370.6	387.8	292.7	251.1	284.0	280.5
82.5°	276.9	342.3	248.6	222.3	221.8	195.9
85°	154.0	266.8	202.5	166.5	115.9	112.4
87.5°	43.1	148.3	141.8	94.2	64.3	66.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)