

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: P193945

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193945
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: GLEON-AF-07-LED-E1-T2R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 28918 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 295
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

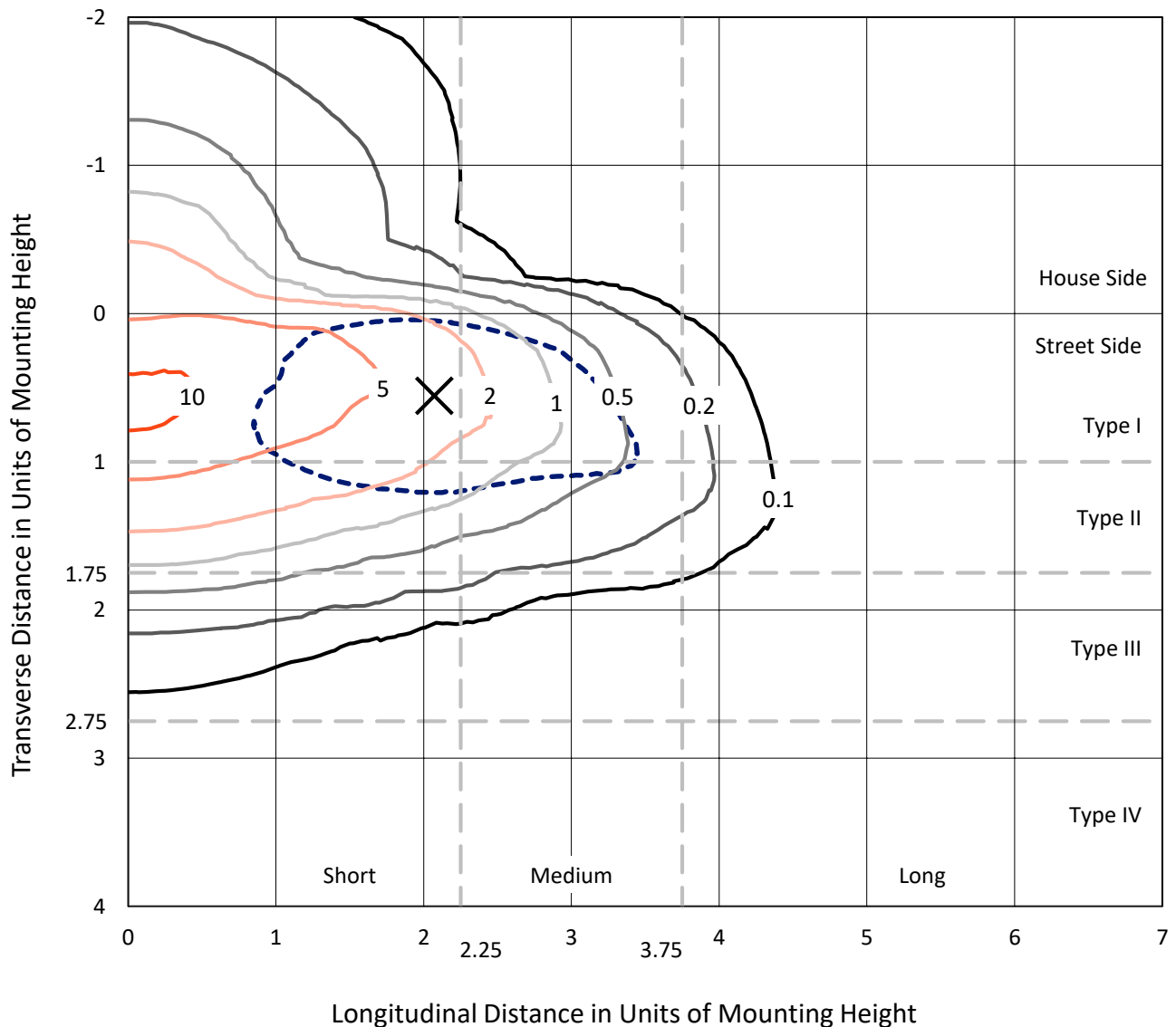


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

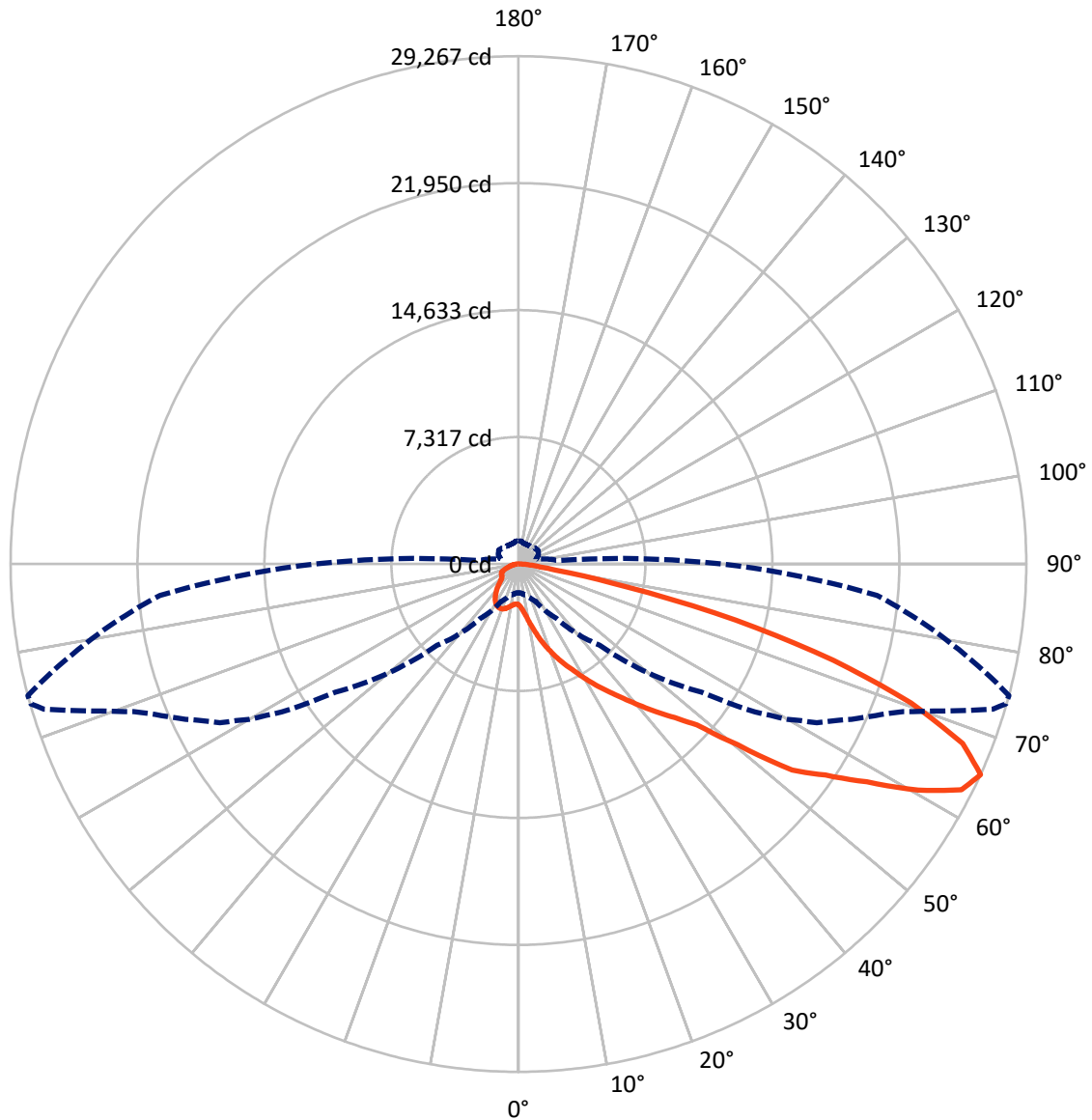


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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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	4458.5	0.0	4458.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24459.5	0.0	24459.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	28918.0	0.0	28918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	1.0
10°-20°	1135.0	3.9
20°-30°	2328.6	8.1
30°-40°	3917.8	13.5
40°-50°	5413.3	18.7
50°-60°	6757.4	23.4
60°-70°	6081.0	21.0
70°-80°	2549.1	8.8
80°-90°	445.3	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°	28918.0	100.0
0°-180°	28918.0	100.0



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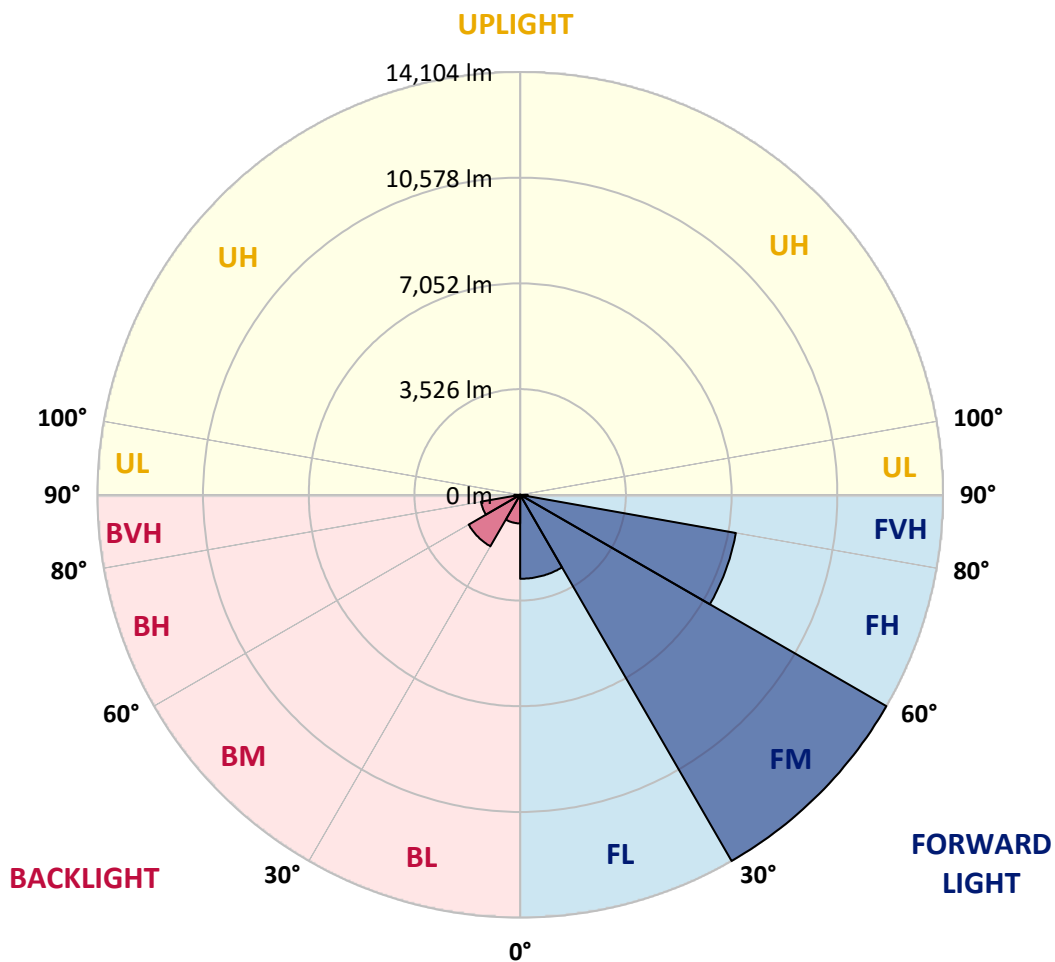
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2800.6	9.7			
FM	(30°-60°)	14104.0	48.8			
FH	(60°-80°)	7304.6	25.3			G3/7500
FVH	(80°-90°)	250.3	0.9			G3/500
BL	(0°-30°)	953.5	3.3	B2/1000		
BM	(30°-60°)	1984.5	6.9	B2/2500		
BH	(60°-80°)	1325.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	195.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1
2.5°	2983.9	2951.0	2959.2	2904.5	2837.4	2749.8	2652.6	2651.3	2652.6	2643.1	2607.5
5°	4137.7	4098.0	4083.0	3959.8	3779.1	3521.8	3242.6	3212.5	3200.1	3168.7	3096.1
7.5°	4979.5	4957.6	4934.3	4841.3	4677.0	4389.6	4014.5	3950.2	3888.6	3873.6	3791.4
10°	5522.9	5517.4	5468.1	5443.5	5340.9	5091.7	4726.3	4664.7	4597.6	4574.4	4488.1
12.5°	5952.7	5951.3	5928.0	5934.9	5845.9	5665.2	5350.4	5294.3	5245.0	5173.9	5112.3
15°	6249.7	6251.1	6285.3	6323.6	6309.9	6188.1	5892.5	5867.8	5825.4	5776.1	5703.6
17.5°	6493.3	6500.2	6535.8	6605.6	6680.9	6671.3	6437.2	6416.7	6379.7	6312.7	6274.3
20°	7043.6	7069.6	7001.1	7001.1	7009.4	7046.3	6934.1	6917.7	6865.6	6830.1	6799.9
22.5°	7973.0	8003.1	7848.4	7691.0	7536.3	7424.1	7311.9	7332.4	7296.8	7272.2	7254.4
25°	9180.2	9203.5	8953.0	8687.4	8372.6	7962.0	7684.2	7671.8	7652.7	7637.6	7629.4
27.5°	10316.3	10325.8	10089.0	9700.3	9334.9	8744.9	8061.9	8046.9	8023.6	7994.9	7970.2
30°	11288.1	11285.3	11041.7	10670.8	10279.3	9626.4	8635.4	8588.9	8520.5	8442.4	8382.2
32.5°	12129.8	12125.7	11858.8	11474.2	11063.6	10499.7	9421.1	9325.3	9218.5	9066.6	8974.9
35°	12792.3	12789.6	12537.7	12136.7	11665.8	11322.3	10321.7	10204.0	10068.5	9864.6	9723.6
37.5°	13042.8	13042.8	12901.8	12628.1	12212.0	11976.5	11322.3	11179.9	11034.8	10803.5	10644.8
40°	12896.3	12899.1	12929.2	12878.6	12676.0	12495.3	12255.8	12170.9	12046.4	11838.3	11672.7
42.5°	12405.0	12420.0	12619.9	12864.9	12966.2	12937.4	13083.9	13045.5	12957.9	12797.8	12666.4
45°	11782.2	11828.7	12047.7	12510.4	13046.9	13319.3	13777.8	13781.9	13765.5	13679.3	13578.0
47.5°	10926.7	10992.4	11281.2	11906.7	12858.0	13690.2	14482.7	14519.7	14553.9	14497.8	14451.2
50°	9790.7	9868.7	10301.2	11130.7	12473.4	14074.8	15814.5	15981.5	16137.5	16118.4	16149.9
52.5°	8573.8	8665.5	9195.3	10119.2	11812.3	14163.8	16665.9	16938.3	17210.6	17433.7	17670.5
55°	7476.1	7426.8	7956.5	8929.7	10725.5	13762.8	17431.0	17759.5	18063.4	18337.1	18619.1
57.5°	5988.3	6069.0	6600.1	7562.3	9287.0	12630.8	17958.0	18438.4	18875.0	19328.1	19727.8
60°	4377.3	4458.0	5034.3	6011.5	7725.2	10914.4	17555.6	18283.7	18983.2	19677.1	20219.1
62.5°	2643.1	2703.3	3211.1	4141.8	5956.8	8879.1	15762.5	16717.9	17747.2	18576.7	19407.5
65°	1645.2	1679.5	1867.0	2378.9	3825.7	6628.8	12878.6	13920.2	15028.9	16081.4	16945.1
67.5°	1346.8	1359.2	1393.4	1502.9	2101.0	4322.5	9585.3	10507.9	11508.4	12526.8	13487.6
70°	1211.3	1203.1	1203.1	1210.0	1346.8	2324.1	6275.7	6876.6	7710.2	8595.7	9474.5
72.5°	1093.6	1085.4	1070.4	1049.8	1099.1	1418.0	3243.9	3697.0	4297.9	5084.9	5926.7
75°	982.8	971.8	954.0	928.0	962.2	1070.4	1557.6	1747.9	2040.8	2459.6	2929.1
77.5°	867.8	854.1	837.7	818.5	862.3	832.2	913.0	981.4	1093.6	1227.8	1404.3
80°	737.8	725.4	720.0	710.4	762.4	633.7	644.7	687.1	752.8	825.4	907.5
82.5°	577.6	577.6	599.5	603.6	661.1	455.8	481.8	518.8	553.0	591.3	629.6
85°	380.5	383.2	457.2	485.9	521.5	306.6	361.3	373.7	401.0	422.9	439.4
87.5°	119.1	128.7	279.2	309.3	299.8	173.8	221.7	227.2	246.4	261.4	275.1
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°	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1
2.5°	2607.5	2591.0	2576.0	2574.6	2563.7	2548.6	2554.1	2530.8	2532.2	2519.9	2506.2
5°	3066.0	3055.0	3000.3	2985.2	2944.2	2918.2	2914.1	2859.3	2852.5	2821.0	2786.8
7.5°	3725.7	3690.1	3613.5	3576.5	3506.7	3454.7	3430.1	3357.5	3322.0	3239.8	3202.9
10°	4417.0	4371.8	4277.3	4225.3	4158.3	4074.8	4029.6	3924.2	3883.1	3807.9	3717.5
12.5°	5057.5	5012.4	4915.2	4875.5	4786.5	4697.5	4648.3	4529.2	4475.8	4355.4	4284.2
15°	5650.2	5605.0	5520.2	5479.1	5390.1	5317.6	5251.9	5134.2	5071.2	4959.0	4865.9
17.5°	6225.1	6177.2	6103.2	6066.3	5980.1	5906.1	5835.0	5724.1	5659.8	5547.5	5464.0
20°	6758.9	6723.3	6669.9	6620.6	6534.4	6467.3	6382.5	6286.7	6193.6	6111.5	6032.1
22.5°	7224.3	7210.6	7153.1	7131.2	7057.3	6999.8	6925.9	6831.4	6764.4	6660.3	6586.4
25°	7625.3	7621.2	7593.8	7587.0	7535.0	7480.2	7463.8	7385.8	7324.2	7232.5	7155.8
27.5°	7970.2	7974.3	7967.5	7986.6	7973.0	7948.3	7949.7	7923.7	7888.1	7811.4	7744.4
30°	8353.5	8331.6	8343.9	8371.3	8379.5	8382.2	8427.4	8442.4	8439.7	8389.1	8356.2
32.5°	8895.5	8843.5	8795.6	8791.5	8818.8	8829.8	8906.4	8946.1	8980.4	8992.7	8998.2
35°	9586.7	9482.7	9382.8	9329.4	9282.9	9295.2	9349.9	9414.3	9489.5	9541.5	9603.1
37.5°	10457.2	10329.9	10153.4	10027.4	9996.0	9927.5	9963.1	10013.8	10087.7	10168.4	10275.2
40°	11512.5	11319.5	11121.1	10954.1	10863.8	10737.8	10736.5	10726.9	10772.0	10847.3	10997.9
42.5°	12528.2	12357.1	12146.3	11971.1	11853.4	11685.0	11650.8	11561.8	11582.3	11648.0	11794.5
45°	13479.4	13338.5	13209.8	13007.2	12907.3	12725.3	12667.8	12562.4	12503.5	12533.6	12680.1
47.5°	14400.6	14310.3	14176.1	14044.7	13968.1	13805.2	13731.3	13656.0	13580.7	13578.0	13731.3
50°	16196.4	16148.5	15989.7	15852.8	15889.8	15690.0	15702.3	15499.7	15591.4	15602.4	15924.0
52.5°	17884.1	18051.1	18168.8	18312.5	18405.6	18423.4	18484.9	18576.7	18687.5	18906.5	19204.9
55°	18850.4	19059.8	19181.6	19291.1	19471.8	19510.1	19612.8	19734.6	19831.8	20078.2	20331.4
57.5°	19998.8	20387.5	20576.4	20750.2	20993.9	21086.9	21258.0	21390.8	21516.7	21808.3	22114.9
60°	20706.4	21180.0	21564.6	21839.7	22145.0	22364.0	22622.7	22830.7	23126.4	23475.4	23932.6
62.5°	20143.9	20839.2	21349.7	21822.0	22236.7	22655.5	23026.5	23415.2	23864.1	24392.5	25101.5
65°	17903.2	18610.9	19485.5	19975.5	20524.4	21170.4	21734.4	22364.0	22975.8	23745.0	24793.5
67.5°	14412.9	15235.5	16218.3	16712.4	17343.4	18064.7	18697.1	19466.3	20180.8	21112.9	22409.1
70°	10388.8	11452.3	12279.0	12795.1	13531.4	14274.7	14885.1	15780.3	16371.6	17327.0	18667.0
72.5°	6578.2	7417.2	8430.1	9080.3	9734.5	10487.3	11111.5	11883.5	12435.1	13305.6	14519.7
75°	3536.8	4155.5	5045.2	5662.5	6363.3	7006.6	7737.5	8254.9	8662.8	9351.3	10336.8
77.5°	1657.6	2034.0	2484.3	2959.2	3434.2	3929.7	4411.5	4830.3	5005.5	5399.7	5981.4
80°	1006.0	1127.8	1259.2	1405.7	1604.2	1764.3	1976.5	2129.8	2140.7	2265.3	2443.2
82.5°	672.1	717.2	756.9	793.9	844.5	884.2	929.4	982.8	1004.7	1033.4	1090.9
85°	458.5	480.4	488.6	511.9	506.4	520.1	537.9	555.7	565.3	563.9	589.9
87.5°	282.0	292.9	298.4	303.9	299.8	294.3	302.5	312.1	314.8	306.6	309.3
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°	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1
2.5°	2508.9	2496.6	2484.3	2476.1	2473.3	2400.8	2369.3	2348.8	2305.0	2269.4	2240.6
5°	2767.6	2741.6	2721.1	2696.4	2682.7	2499.3	2432.3	2385.7	2309.1	2263.9	2222.8
7.5°	3183.7	3111.2	3068.7	3020.8	2979.8	2648.5	2537.7	2465.1	2358.4	2298.1	2251.6
10°	3655.9	3580.6	3513.6	3439.7	3375.3	2847.0	2685.5	2573.2	2432.3	2354.2	2292.7
12.5°	4182.9	4109.0	4024.1	3929.7	3847.6	3098.8	2874.4	2714.2	2521.2	2417.2	2331.0
15°	4805.7	4675.6	4573.0	4463.5	4367.7	3400.0	3094.7	2873.0	2615.7	2474.7	2359.7
17.5°	5384.7	5247.8	5108.2	5012.4	4901.5	3738.1	3316.5	3034.5	2693.7	2511.7	2365.2
20°	5949.9	5800.8	5680.3	5551.6	5435.3	4088.5	3553.3	3176.9	2744.3	2513.0	2331.0
22.5°	6448.2	6355.1	6221.0	6081.3	5963.6	4438.9	3775.0	3297.3	2763.5	2481.5	2270.8
25°	7014.8	6916.3	6752.0	6634.3	6502.9	4796.1	3992.6	3390.4	2752.6	2422.7	2177.7
27.5°	7619.8	7510.3	7342.0	7218.8	7060.0	5167.0	4192.5	3457.5	2711.5	2326.9	2053.1
30°	8250.8	8150.9	7985.3	7860.7	7700.6	5559.9	4415.6	3502.6	2629.4	2194.1	1908.0
32.5°	8928.3	8844.9	8680.6	8550.6	8379.5	5985.5	4623.6	3516.3	2504.8	2036.7	1754.7
35°	9571.7	9514.2	9375.9	9254.1	9076.2	6387.9	4844.0	3509.5	2357.0	1864.2	1615.1
37.5°	10295.7	10261.5	10193.1	10038.4	9820.8	6934.1	5108.2	3480.7	2176.3	1693.1	1508.4
40°	11067.7	11070.4	10996.5	10891.1	10688.6	7596.6	5423.0	3424.6	1979.2	1542.6	1411.2
42.5°	11884.8	11927.3	11891.7	11816.4	11622.0	8264.5	5799.4	3356.2	1787.6	1396.1	1315.4
45°	12821.1	12873.1	12927.8	12817.0	12628.1	9146.0	6294.9	3267.2	1580.9	1274.3	1249.7
47.5°	13901.0	13983.1	14032.4	14033.8	13844.9	10238.2	7099.7	3213.8	1397.5	1192.2	1218.2
50°	16180.0	16206.0	16322.3	16524.9	16379.8	12766.3	8505.4	3181.0	1272.9	1141.5	1194.9
52.5°	19463.6	19749.7	19950.9	19937.2	19740.1	14371.9	9280.1	3011.2	1199.0	1122.4	1184.0
55°	20800.9	21158.1	21530.4	21629.0	21475.7	15742.0	10012.4	2841.5	1163.4	1136.1	1188.1
57.5°	22583.0	23185.2	23695.8	23910.7	23688.9	17495.3	10976.0	2752.6	1152.5	1173.0	1214.1
60°	24664.8	25409.4	26080.1	26466.1	26466.1	19510.1	11975.2	2715.6	1137.4	1227.8	1257.9
62.5°	26002.1	27095.7	28108.6	28673.9	28657.5	20913.1	12418.7	2589.7	1103.2	1266.1	1318.1
65°	26007.6	27307.9	28598.6	29233.7	29266.6	20740.6	11686.4	2287.2	1040.2	1271.6	1378.3
67.5°	23839.5	25226.0	26730.3	27440.7	27604.9	19092.7	10116.4	1880.7	937.6	1216.8	1400.2
70°	20134.3	21488.0	23023.7	23721.8	24013.3	16275.8	8148.2	1449.5	806.2	1096.4	1355.1
72.5°	15862.4	17190.1	18259.1	18769.6	18996.9	12440.6	5933.5	1095.0	661.1	923.9	1233.2
75°	11230.6	12227.0	12795.1	12908.7	12944.3	7499.4	3605.3	814.4	544.8	718.6	1041.6
77.5°	6338.7	6765.7	6719.2	6769.8	6348.3	2894.9	1570.0	583.1	448.9	546.1	807.6
80°	2474.7	2551.3	2396.7	2348.8	2154.4	1077.2	692.6	406.5	358.6	413.4	565.3
82.5°	1090.9	1126.5	1093.6	1101.8	1053.9	555.7	414.7	294.3	273.7	302.5	375.0
85°	600.9	611.8	609.1	626.9	600.9	221.7	197.1	180.7	191.6	205.3	240.9
87.5°	292.9	295.6	286.1	301.1	291.5	112.2	97.2	102.7	112.2	115.0	115.0
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):

	135°	145°	155°	165°	175°	180°
0°	2350.1	2350.1	2350.1	2350.1	2350.1	2350.1
2.5°	2220.1	2209.2	2210.5	2207.8	2202.3	2202.3
5°	2200.9	2190.0	2190.0	2187.3	2180.4	2181.8
7.5°	2220.1	2202.3	2195.5	2185.9	2176.3	2176.3
10°	2242.0	2210.5	2191.4	2174.9	2162.6	2162.6
12.5°	2258.4	2209.2	2177.7	2155.8	2143.5	2143.5
15°	2263.9	2199.6	2155.8	2129.8	2118.8	2117.5
17.5°	2246.1	2162.6	2109.2	2079.1	2065.4	2061.3
20°	2191.4	2095.6	2031.2	1997.0	1977.8	1971.0
22.5°	2109.2	1999.7	1924.5	1888.9	1864.2	1860.1
25°	1994.3	1876.6	1802.6	1768.4	1754.7	1750.6
27.5°	1860.1	1750.6	1687.7	1665.8	1653.4	1652.1
30°	1732.8	1639.8	1593.2	1576.8	1561.7	1559.0
32.5°	1613.8	1554.9	1537.1	1513.8	1478.2	1474.1
35°	1528.9	1523.4	1511.1	1459.1	1415.3	1403.0
37.5°	1476.9	1527.5	1464.6	1361.9	1330.4	1327.7
40°	1446.8	1485.1	1377.0	1341.4	1344.1	1341.4
42.5°	1378.3	1418.0	1379.7	1363.3	1374.2	1377.0
45°	1309.9	1353.7	1400.2	1389.3	1415.3	1415.3
47.5°	1271.6	1337.3	1398.9	1398.9	1437.2	1450.9
50°	1227.8	1323.6	1377.0	1396.1	1426.2	1415.3
52.5°	1225.0	1300.3	1345.5	1379.7	1393.4	1381.1
55°	1229.1	1281.1	1314.0	1352.3	1368.7	1370.1
57.5°	1234.6	1270.2	1292.1	1309.9	1359.2	1359.2
60°	1248.3	1260.6	1272.9	1282.5	1346.8	1348.2
62.5°	1270.2	1251.0	1248.3	1257.9	1340.0	1334.5
65°	1304.4	1237.3	1216.8	1226.4	1333.2	1316.7
67.5°	1351.0	1216.8	1177.1	1184.0	1327.7	1292.1
70°	1393.4	1184.0	1127.8	1121.0	1275.7	1212.7
72.5°	1397.5	1145.6	1059.4	1038.9	1108.7	1048.5
75°	1329.1	1119.6	984.1	923.9	915.7	907.5
77.5°	1197.7	1104.6	896.5	802.1	785.7	791.1
80°	1001.9	1048.5	791.1	678.9	767.9	758.3
82.5°	748.7	925.3	672.1	600.9	599.5	529.7
85°	416.1	721.3	547.5	450.3	313.4	303.9
87.5°	116.3	401.0	383.2	254.6	173.8	180.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)