

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: P191404

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191404
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-06-LED-E1-T2R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 30653.8 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

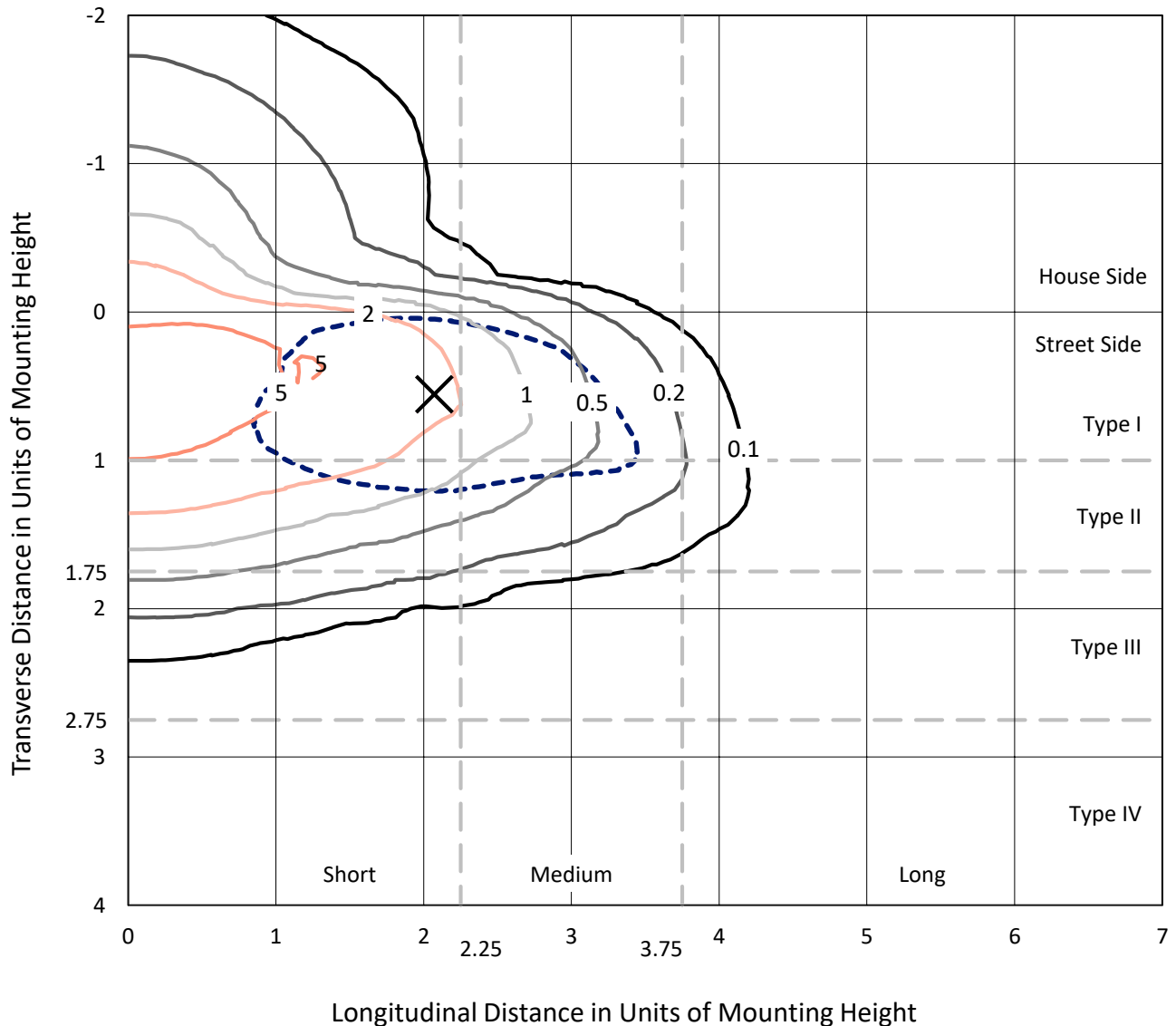


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Iso-Footcandle Lines of Horizontal Illumination

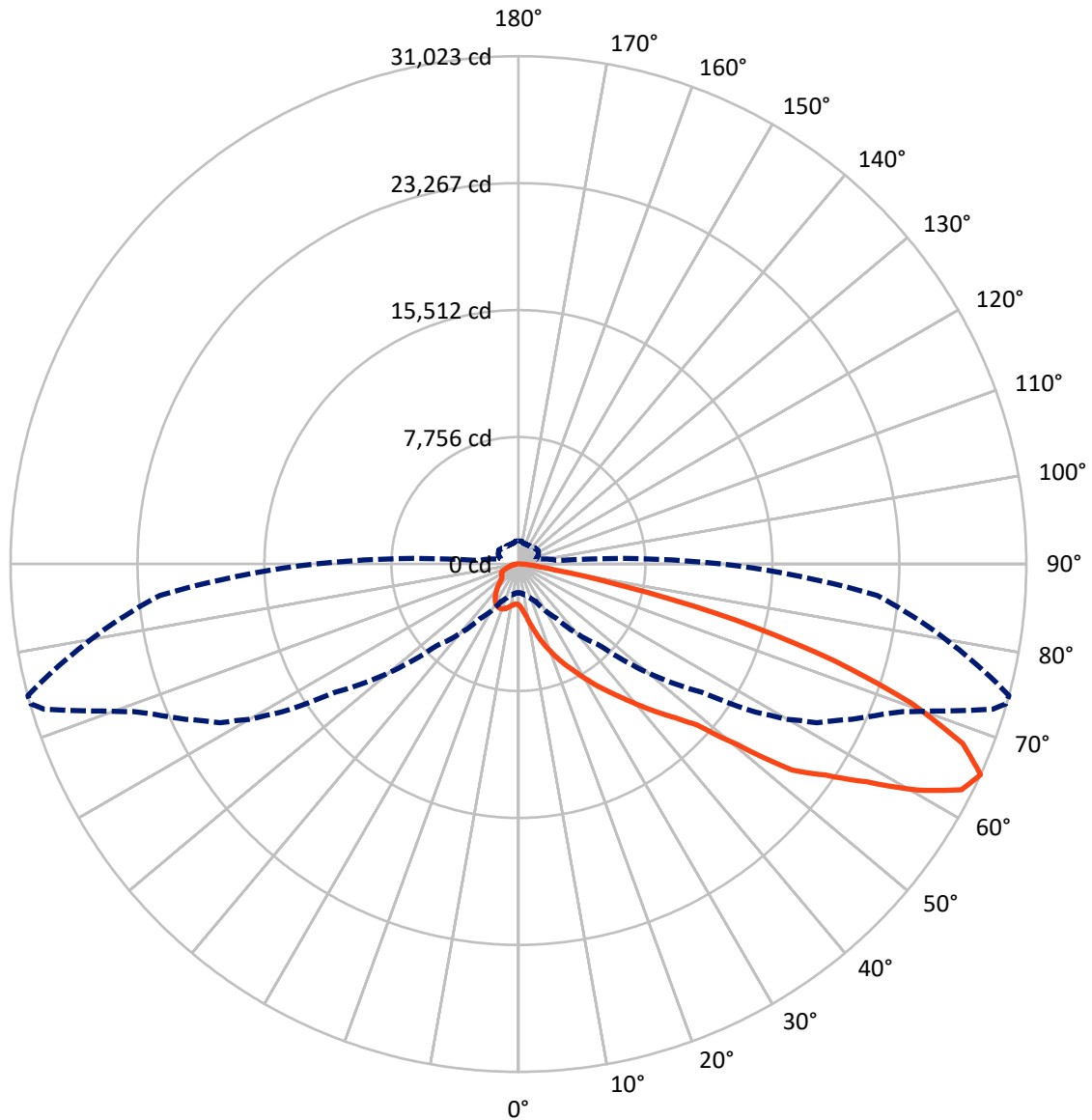
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	4726.1	0.0	4726.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	25927.7	0.0	25927.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	30653.8	0.0	30653.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	1.0
10°-20°	1203.1	3.9
20°-30°	2468.4	8.1
30°-40°	4153.0	13.5
40°-50°	5738.2	18.7
50°-60°	7163.0	23.4
60°-70°	6446.0	21.0
70°-80°	2702.1	8.8
80°-90°	472.1	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°	30653.8	100.0
0°-180°	30653.8	100.0



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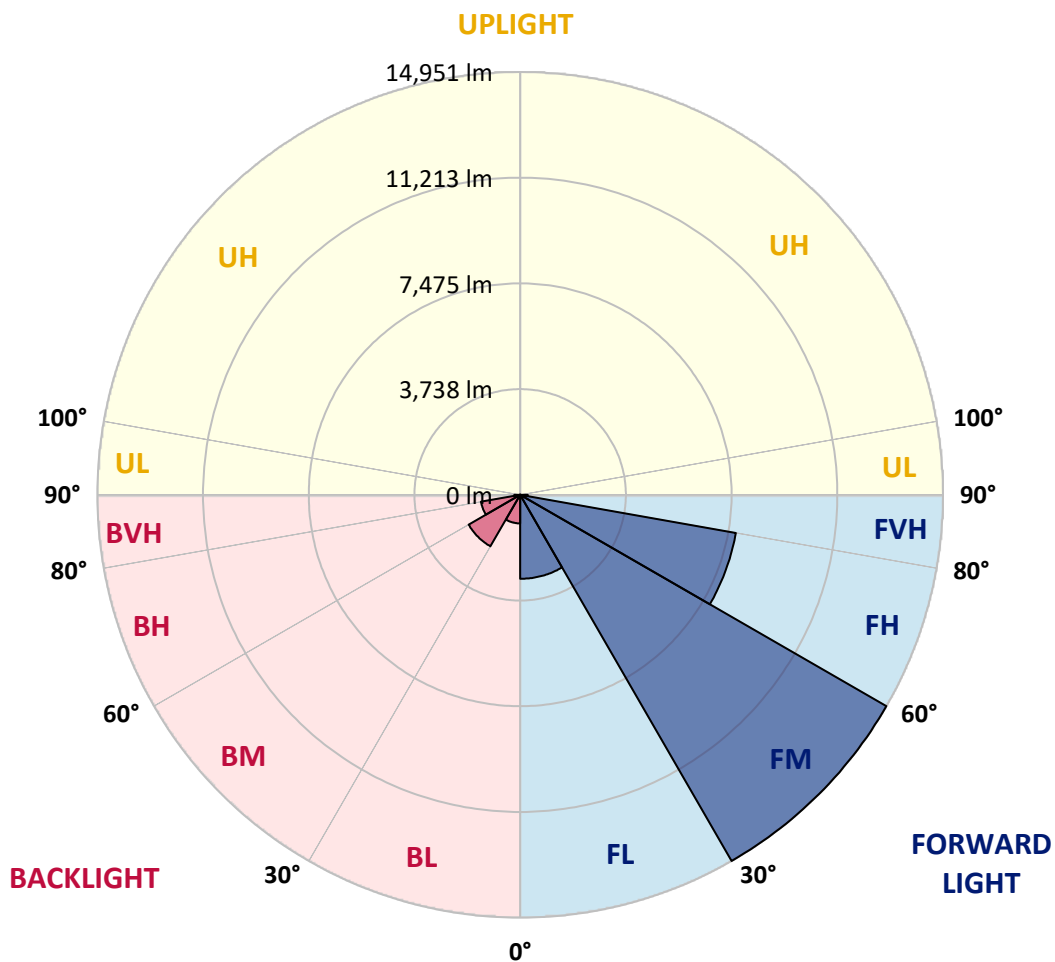
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2968.7	9.7			
FM	(30°-60°)	14950.6	48.8			
FH	(60°-80°)	7743.0	25.3			G4/12000
FVH	(80°-90°)	265.3	0.9			G3/500
BL	(0°-30°)	1010.7	3.3	B3/2500		
BM	(30°-60°)	2103.6	6.9	B2/2500		
BH	(60°-80°)	1405.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	206.7	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2
2.5°	3163.0	3128.2	3136.9	3078.8	3007.7	2914.9	2811.9	2810.4	2811.9	2801.7	2764.0
5°	4386.1	4344.0	4328.0	4197.5	4006.0	3733.2	3437.2	3405.3	3392.2	3358.9	3281.9
7.5°	5278.4	5255.2	5230.6	5131.8	4957.7	4653.1	4255.5	4187.3	4122.0	4106.0	4019.0
10°	5854.4	5848.6	5796.3	5770.3	5661.4	5397.4	5010.0	4944.6	4873.5	4848.9	4757.5
12.5°	6310.0	6308.5	6283.9	6291.1	6196.8	6005.3	5671.5	5612.1	5559.8	5484.4	5419.1
15°	6624.8	6626.3	6662.6	6703.2	6688.7	6559.6	6246.1	6220.1	6175.0	6122.8	6045.9
17.5°	6883.1	6890.4	6928.0	7002.1	7081.9	7071.7	6823.6	6801.8	6762.6	6691.5	6650.9
20°	7466.3	7493.9	7421.4	7421.4	7430.1	7469.3	7350.3	7332.9	7277.8	7240.0	7208.1
22.5°	8451.5	8483.4	8319.5	8152.6	7988.6	7869.7	7750.7	7772.5	7734.7	7708.7	7689.8
25°	9731.2	9755.9	9490.3	9208.9	8875.2	8440.0	8145.3	8132.4	8112.0	8096.0	8087.3
27.5°	10935.4	10945.6	10694.6	10282.6	9895.2	9269.9	8545.8	8529.9	8505.2	8474.7	8448.7
30°	11965.7	11962.7	11704.4	11311.3	10896.3	10204.2	9153.8	9104.5	9031.8	8949.2	8885.4
32.5°	12857.9	12853.6	12570.6	12162.9	11727.6	11129.9	9986.6	9885.0	9771.8	9610.8	9513.5
35°	13560.1	13557.3	13290.3	12865.1	12366.0	12001.9	10941.3	10816.5	10672.9	10456.7	10307.3
37.5°	13825.7	13825.7	13676.2	13386.0	12944.9	12695.4	12001.9	11851.0	11697.2	11452.0	11283.7
40°	13670.4	13673.4	13705.3	13651.6	13436.9	13245.3	12991.4	12901.5	12769.4	12548.8	12373.3
42.5°	13149.5	13165.5	13377.3	13637.1	13744.5	13714.0	13869.2	13828.6	13735.7	13566.0	13426.6
45°	12489.4	12538.7	12770.8	13261.2	13830.0	14118.8	14604.8	14609.2	14591.8	14500.3	14393.0
47.5°	11582.6	11652.2	11958.4	12621.4	13629.8	14512.0	15352.0	15391.2	15427.4	15368.0	15318.7
50°	10378.3	10461.0	10919.5	11798.7	13222.0	14919.6	16763.7	16940.8	17106.2	17085.8	17119.2
52.5°	9088.5	9185.7	9747.2	10726.6	12521.3	15014.0	17666.3	17954.9	18243.7	18480.2	18731.2
55°	7924.8	7872.6	8434.1	9465.7	11369.3	14588.8	18477.3	18825.5	19147.6	19437.8	19736.6
57.5°	6347.7	6433.3	6996.3	8016.3	9844.4	13389.0	19035.9	19545.1	20008.0	20488.3	20911.9
60°	4640.0	4725.6	5336.4	6372.4	8188.9	11569.5	18609.3	19381.1	20122.6	20858.2	21432.8
62.5°	2801.7	2865.5	3403.9	4390.4	6314.4	9412.1	16708.6	17721.4	18812.5	19691.7	20572.4
65°	1744.0	1780.2	1979.0	2521.7	4055.3	7026.8	13651.6	14755.7	15930.9	17046.7	17962.2
67.5°	1427.7	1440.7	1477.0	1593.1	2227.2	4582.0	10160.7	11138.6	12199.2	13278.7	14297.2
70°	1284.0	1275.3	1275.3	1282.6	1427.7	2463.7	6652.4	7289.3	8173.0	9111.7	10043.1
72.5°	1159.3	1150.6	1134.7	1112.9	1165.0	1503.1	3438.6	3918.9	4555.8	5390.1	6282.5
75°	1041.8	1030.1	1011.3	983.7	1020.0	1134.7	1651.1	1852.8	2163.3	2607.3	3105.0
77.5°	919.8	905.4	887.9	867.7	914.1	882.2	967.7	1040.3	1159.3	1301.5	1488.6
80°	782.0	769.0	763.2	753.0	808.1	671.8	683.3	728.3	798.0	874.9	962.0
82.5°	612.2	612.2	635.5	639.9	700.8	483.1	510.8	549.9	586.2	626.8	667.4
85°	403.3	406.2	484.6	515.1	552.8	325.0	383.0	396.1	425.1	448.4	465.7
87.5°	126.2	136.4	295.9	327.9	317.7	184.2	235.1	240.8	261.2	277.1	291.6
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°	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2
2.5°	2764.0	2746.5	2730.6	2729.1	2717.6	2701.6	2707.3	2682.7	2684.2	2671.1	2656.6
5°	3250.0	3238.5	3180.4	3164.4	3120.9	3093.3	3089.0	3030.9	3023.6	2990.3	2954.1
7.5°	3949.4	3911.7	3830.3	3791.3	3717.2	3662.1	3636.0	3559.1	3521.3	3434.3	3395.1
10°	4682.0	4634.2	4534.1	4479.0	4407.9	4319.3	4271.4	4159.7	4116.3	4036.5	3940.6
12.5°	5361.1	5313.2	5210.2	5168.2	5073.8	4979.5	4927.2	4801.0	4744.4	4616.8	4541.3
15°	5989.4	5941.5	5851.5	5808.0	5713.7	5636.8	5567.1	5442.3	5375.6	5256.6	5157.9
17.5°	6598.7	6547.9	6469.6	6430.4	6339.0	6260.7	6185.2	6067.6	5999.5	5880.5	5792.0
20°	7164.5	7126.8	7070.2	7018.1	6926.6	6855.5	6765.6	6664.0	6565.3	6478.2	6394.2
22.5°	7657.9	7643.4	7582.4	7559.2	7480.8	7420.0	7341.6	7241.5	7170.4	7060.1	6981.7
25°	8082.9	8078.7	8049.6	8042.3	7987.2	7929.2	7911.8	7829.1	7763.8	7666.6	7585.3
27.5°	8448.7	8452.9	8445.7	8466.0	8451.5	8425.4	8426.9	8399.2	8361.6	8280.3	8209.2
30°	8854.9	8831.6	8844.7	8873.7	8882.5	8885.4	8933.2	8949.2	8946.3	8892.6	8857.7
32.5°	9429.5	9374.3	9323.5	9319.2	9348.1	9359.8	9441.0	9483.1	9519.4	9532.5	9538.2
35°	10162.1	10051.8	9945.9	9889.4	9840.1	9853.1	9911.2	9979.3	10059.1	10114.2	10179.6
37.5°	11084.9	10950.0	10762.8	10629.3	10595.9	10523.4	10561.1	10614.9	10693.2	10778.7	10892.0
40°	12203.6	11999.0	11788.6	11611.6	11515.9	11382.4	11380.9	11370.7	11418.6	11498.4	11658.1
42.5°	13280.2	13098.8	12875.4	12689.6	12564.8	12386.4	12350.1	12255.8	12277.6	12347.2	12502.4
45°	14288.5	14139.0	14002.7	13787.9	13682.1	13489.0	13428.1	13316.4	13254.0	13286.0	13441.2
47.5°	15265.0	15169.2	15027.0	14887.7	14806.5	14633.8	14555.5	14475.7	14395.9	14393.0	14555.5
50°	17168.6	17117.8	16949.5	16804.4	16843.6	16631.7	16644.7	16430.0	16527.2	16538.9	16879.8
52.5°	18957.5	19134.5	19259.3	19411.6	19510.3	19529.2	19594.4	19691.7	19809.2	20041.3	20357.6
55°	19981.8	20203.9	20333.0	20449.1	20640.6	20681.2	20790.0	20919.1	21022.2	21283.3	21551.7
57.5°	21199.1	21611.3	21811.5	21995.7	22254.0	22352.6	22534.0	22674.7	22808.2	23117.3	23442.2
60°	21949.3	22451.3	22859.0	23150.6	23474.2	23706.4	23980.5	24201.1	24514.5	24884.5	25369.1
62.5°	21353.0	22090.0	22631.3	23131.8	23571.3	24015.4	24408.5	24820.7	25296.6	25856.6	26608.2
65°	18977.8	19727.9	20655.1	21174.5	21756.3	22441.2	23038.9	23706.4	24354.9	25170.3	26281.7
67.5°	15278.0	16150.0	17191.8	17715.6	18384.4	19149.0	19819.4	20634.8	21392.2	22380.2	23754.2
70°	11012.4	12139.8	13016.0	13563.1	14343.6	15131.5	15778.6	16727.5	17354.3	18367.0	19787.4
72.5°	6973.0	7862.5	8936.1	9625.3	10318.8	11116.8	11778.5	12596.7	13181.4	14104.2	15391.2
75°	3749.1	4404.9	5348.0	6002.4	6745.2	7427.1	8201.9	8750.4	9182.8	9912.6	10957.2
77.5°	1757.0	2156.1	2633.4	3136.9	3640.3	4165.6	4676.2	5120.3	5305.9	5723.8	6340.5
80°	1066.4	1195.5	1334.8	1490.0	1700.5	1870.3	2095.1	2257.7	2269.2	2401.3	2589.9
82.5°	712.4	760.3	802.3	841.5	895.2	937.3	985.2	1041.8	1065.0	1095.5	1156.3
85°	486.0	509.2	518.0	542.7	536.8	551.4	570.2	589.1	599.2	597.8	625.3
87.5°	298.9	310.5	316.3	322.1	317.7	311.9	320.7	330.8	333.7	325.0	327.9
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°	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2
2.5°	2659.5	2646.5	2633.4	2624.7	2621.8	2544.9	2511.5	2489.8	2443.3	2405.6	2375.1
5°	2933.7	2906.2	2884.4	2858.3	2843.8	2649.3	2578.2	2528.9	2447.7	2399.8	2356.3
7.5°	3374.8	3297.9	3252.9	3202.1	3158.7	2807.5	2690.0	2613.1	2499.9	2436.1	2386.7
10°	3875.3	3795.6	3724.5	3646.1	3578.0	3017.9	2846.7	2727.7	2578.2	2495.6	2430.2
12.5°	4434.0	4355.6	4265.7	4165.6	4078.5	3284.8	3046.9	2877.2	2672.6	2562.3	2470.9
15°	5094.1	4956.3	4847.5	4731.4	4629.9	3604.1	3280.5	3045.4	2772.7	2623.3	2501.3
17.5°	5707.9	5562.8	5414.8	5313.2	5195.7	3962.4	3515.6	3216.7	2855.4	2662.4	2507.2
20°	6307.1	6149.0	6021.3	5884.8	5761.6	4333.8	3766.5	3367.6	2909.1	2663.9	2470.9
22.5°	6835.3	6736.5	6594.4	6446.3	6321.6	4705.3	4001.6	3495.2	2929.4	2630.5	2407.0
25°	7435.9	7331.4	7157.3	7032.6	6893.3	5084.0	4232.3	3593.9	2917.8	2568.1	2308.4
27.5°	8077.2	7961.1	7782.6	7652.1	7483.8	5477.2	4444.1	3665.0	2874.3	2466.5	2176.3
30°	8746.0	8640.1	8464.6	8332.5	8162.7	5893.5	4680.6	3712.9	2787.2	2325.8	2022.6
32.5°	9464.2	9375.8	9201.6	9063.8	8882.5	6344.9	4901.2	3727.3	2655.2	2158.9	1860.0
35°	10146.1	10085.3	9938.7	9809.6	9621.0	6771.3	5134.7	3720.2	2498.5	1976.1	1712.1
37.5°	10913.7	10877.4	10804.9	10640.9	10410.3	7350.3	5414.8	3689.7	2307.0	1794.8	1598.9
40°	11732.0	11734.9	11656.5	11544.8	11330.1	8052.6	5748.5	3630.1	2098.0	1635.2	1495.9
42.5°	12598.3	12643.2	12605.4	12525.6	12319.6	8760.6	6147.5	3557.6	1894.9	1479.9	1394.3
45°	13590.6	13645.8	13703.8	13586.2	13386.0	9694.9	6672.7	3463.3	1675.8	1350.8	1324.7
47.5°	14735.4	14822.5	14874.6	14876.2	14675.9	10852.8	7525.8	3406.7	1481.3	1263.8	1291.3
50°	17151.1	17178.7	17302.0	17516.8	17363.0	13532.6	9015.9	3372.0	1349.4	1210.0	1266.6
52.5°	20631.9	20935.1	21148.4	21133.9	20925.0	15234.5	9837.1	3192.0	1271.0	1189.7	1255.1
55°	22049.4	22428.1	22822.7	22927.2	22764.6	16686.9	10613.3	3012.1	1233.3	1204.2	1259.4
57.5°	23938.5	24576.9	25118.0	25345.9	25110.8	18545.5	11634.8	2917.8	1221.7	1243.4	1287.0
60°	26145.3	26934.6	27645.6	28054.7	28054.7	20681.2	12694.0	2878.6	1205.8	1301.5	1333.4
62.5°	27562.8	28722.1	29795.8	30395.0	30377.5	22168.4	13164.0	2745.1	1169.4	1342.1	1397.2
65°	27568.6	28947.0	30315.2	30988.5	31023.2	21985.6	12387.8	2424.5	1102.6	1347.8	1461.1
67.5°	25270.4	26740.1	28334.7	29087.7	29261.8	20238.7	10723.6	1993.5	993.9	1289.8	1484.3
70°	21342.8	22777.7	24405.7	25145.7	25454.7	17252.7	8637.3	1536.5	854.6	1162.2	1436.4
72.5°	16814.5	18221.9	19355.0	19896.3	20137.1	13187.3	6289.7	1160.7	700.8	979.4	1307.2
75°	11904.7	12960.9	13563.1	13683.5	13721.2	7949.6	3821.6	863.3	577.5	761.7	1104.2
77.5°	6719.2	7171.8	7122.5	7176.2	6729.3	3068.6	1664.1	618.1	475.9	578.9	856.0
80°	2623.3	2704.5	2540.5	2489.8	2283.7	1141.8	734.2	431.0	380.1	438.1	599.2
82.5°	1156.3	1194.1	1159.3	1168.0	1117.2	589.1	439.7	311.9	290.2	320.7	397.5
85°	637.0	648.6	645.7	664.5	637.0	235.1	208.9	191.5	203.2	217.7	255.3
87.5°	310.5	313.4	303.2	319.2	309.0	119.0	103.0	108.8	119.0	121.8	121.8
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):

	135°	145°	155°	165°	175°	180°
0°	2491.2	2491.2	2491.2	2491.2	2491.2	2491.2
2.5°	2353.4	2341.7	2343.2	2340.3	2334.5	2334.5
5°	2333.0	2321.5	2321.5	2318.5	2311.3	2312.8
7.5°	2353.4	2334.5	2327.2	2317.1	2307.0	2307.0
10°	2376.6	2343.2	2322.9	2305.5	2292.4	2292.4
12.5°	2394.0	2341.7	2308.4	2285.2	2272.1	2272.1
15°	2399.8	2331.6	2285.2	2257.7	2246.0	2244.6
17.5°	2380.9	2292.4	2235.9	2203.9	2189.4	2185.0
20°	2322.9	2221.3	2153.1	2116.9	2096.5	2089.3
22.5°	2235.9	2119.8	2040.0	2002.2	1976.1	1971.7
25°	2113.9	1989.2	1910.9	1874.6	1860.0	1855.7
27.5°	1971.7	1855.7	1788.9	1765.7	1752.7	1751.3
30°	1836.8	1738.2	1688.9	1671.4	1655.4	1652.6
32.5°	1710.6	1648.2	1629.4	1604.7	1567.0	1562.7
35°	1620.7	1614.8	1601.8	1546.7	1500.3	1487.2
37.5°	1565.5	1619.2	1552.4	1443.7	1410.2	1407.4
40°	1533.6	1574.2	1459.6	1421.9	1424.8	1421.9
42.5°	1461.1	1503.1	1462.5	1445.1	1456.7	1459.6
45°	1388.6	1435.0	1484.3	1472.6	1500.3	1500.3
47.5°	1347.8	1417.5	1482.9	1482.9	1523.5	1538.0
50°	1301.5	1403.0	1459.6	1479.9	1511.8	1500.3
52.5°	1298.5	1378.3	1426.2	1462.5	1477.0	1463.9
55°	1302.9	1358.1	1392.8	1433.5	1451.0	1452.4
57.5°	1308.8	1346.4	1369.6	1388.6	1440.7	1440.7
60°	1323.2	1336.3	1349.4	1359.5	1427.7	1429.2
62.5°	1346.4	1326.2	1323.2	1333.4	1420.5	1414.6
65°	1382.7	1311.6	1289.8	1300.0	1413.2	1395.8
67.5°	1432.0	1289.8	1247.8	1255.1	1407.4	1369.6
70°	1477.0	1255.1	1195.5	1188.3	1352.2	1285.5
72.5°	1481.3	1214.4	1123.0	1101.2	1175.3	1111.4
75°	1408.8	1186.8	1043.2	979.4	970.7	962.0
77.5°	1269.6	1170.9	950.3	850.3	832.8	838.6
80°	1062.0	1111.4	838.6	719.6	814.0	803.8
82.5°	793.6	980.8	712.4	637.0	635.5	561.5
85°	441.1	764.7	580.3	477.3	332.3	322.1
87.5°	123.4	425.1	406.2	269.9	184.2	191.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)