

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: P269742

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269742
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-10-LED-E1-T2R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35135.1 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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

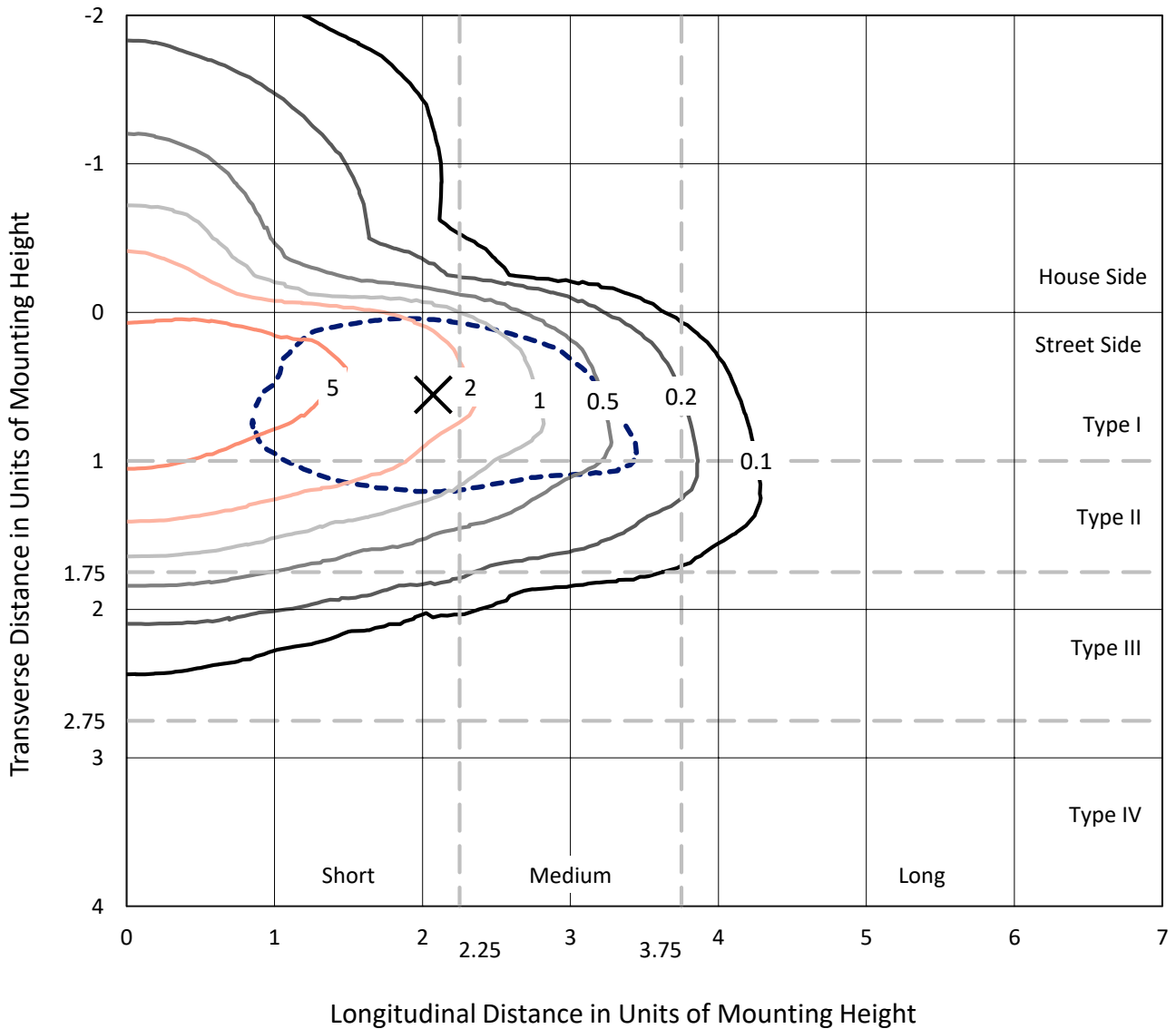


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

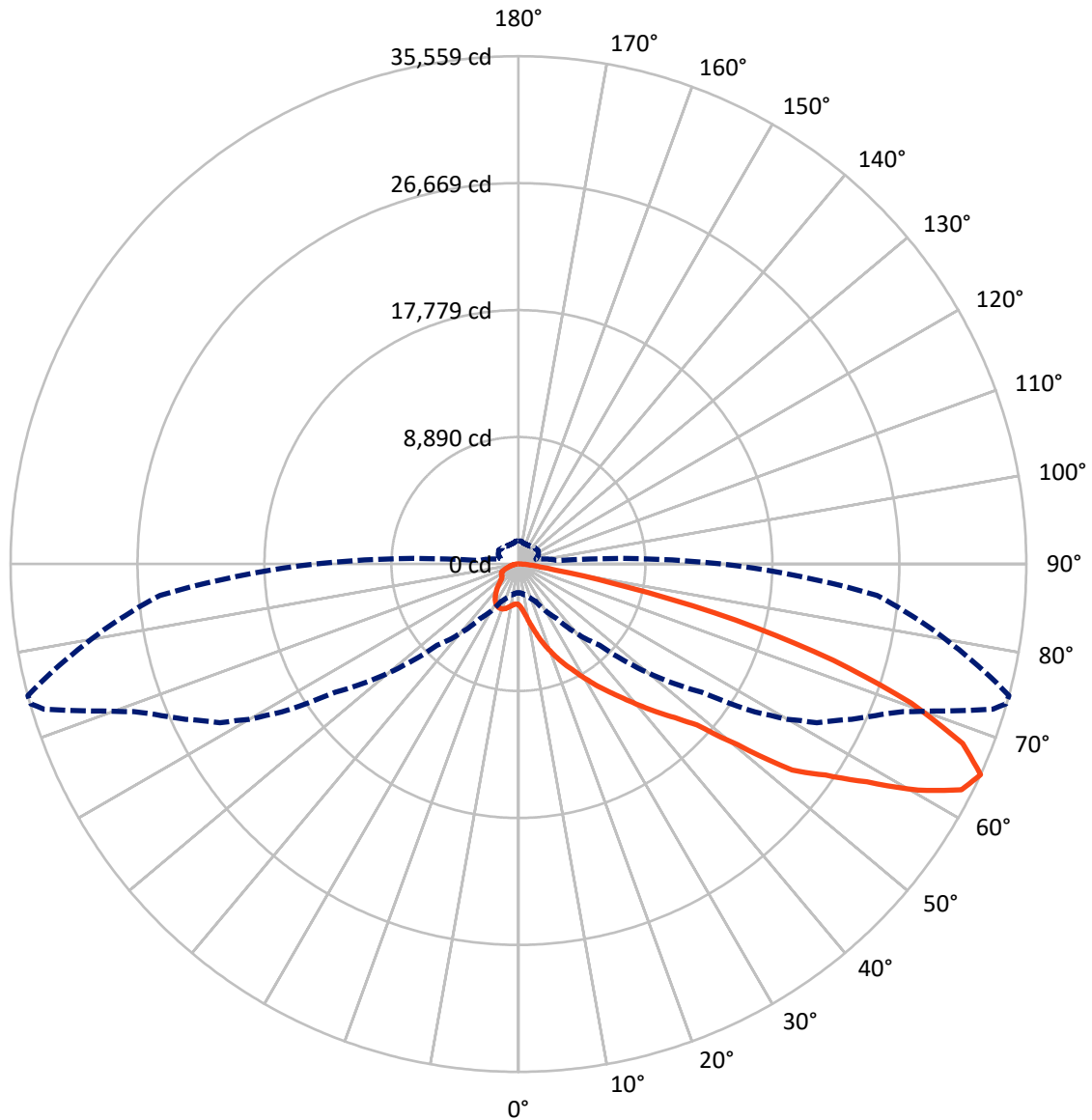


Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Full Cutoff

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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	5417.0	0.0	5417.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	29718.1	0.0	29718.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	35135.1	0.0	35135.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	1.0
10°-20°	1379.0	3.9
20°-30°	2829.3	8.1
30°-40°	4760.1	13.5
40°-50°	6577.1	18.7
50°-60°	8210.2	23.4
60°-70°	7388.3	21.0
70°-80°	3097.1	8.8
80°-90°	541.1	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°	35135.1	100.0
0°-180°	35135.1	100.0



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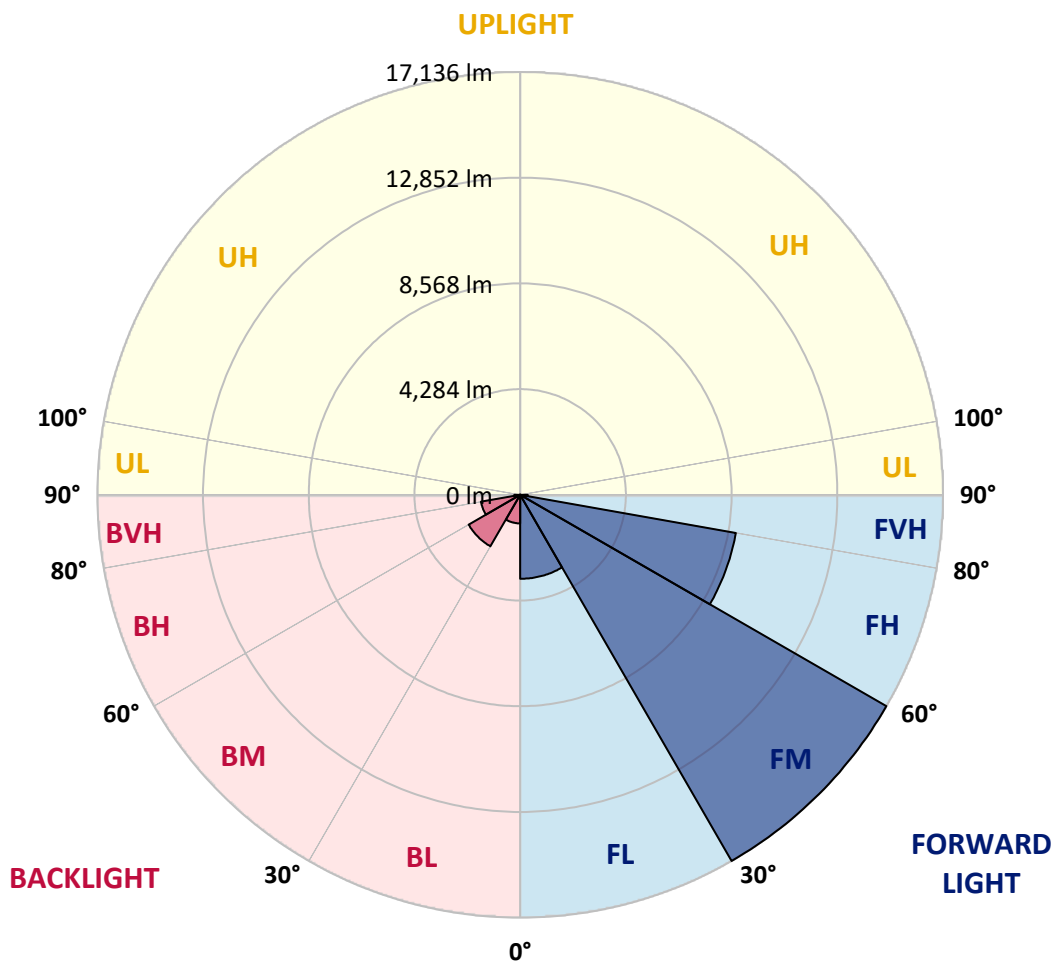
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3402.7	9.7			
FM (30°-60°)	17136.2	48.8			
FH (60°-80°)	8875.0	25.3			G4/12000
FVH (80°-90°)	304.1	0.9			G3/500
BL (0°-30°)	1158.5	3.3	B3/2500		
BM (30°-60°)	2411.2	6.9	B2/2500		
BH (60°-80°)	1610.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	236.9	0.7			G3/500
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°	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4
2.5°	3625.4	3585.4	3595.5	3528.9	3447.4	3340.9	3222.8	3221.2	3222.8	3211.4	3168.1
5°	5027.3	4979.0	4960.8	4811.1	4591.5	4278.9	3939.6	3903.0	3888.1	3849.9	3761.7
7.5°	6050.1	6023.5	5995.2	5882.1	5682.5	5333.2	4877.6	4799.5	4724.6	4706.3	4606.6
10°	6710.2	6703.6	6643.8	6613.9	6489.0	6186.4	5742.3	5667.5	5586.1	5557.9	5453.0
12.5°	7232.4	7230.7	7202.5	7210.9	7102.8	6883.3	6500.8	6432.6	6372.7	6286.2	6211.4
15°	7593.4	7595.0	7636.6	7683.2	7666.6	7518.5	7159.3	7129.4	7077.7	7017.9	6929.7
17.5°	7889.4	7897.7	7940.8	8025.6	8117.2	8105.5	7821.2	7796.2	7751.4	7669.8	7623.2
20°	8557.9	8589.5	8506.3	8506.3	8516.3	8561.1	8424.8	8404.9	8341.8	8298.5	8261.8
22.5°	9687.1	9723.7	9535.7	9344.4	9156.6	9020.2	8883.8	8908.9	8865.6	8835.5	8814.0
25°	11153.9	11182.1	10877.8	10555.2	10172.6	9673.8	9336.2	9321.3	9297.8	9279.6	9269.6
27.5°	12534.1	12545.8	12258.1	11785.9	11341.8	10625.1	9795.2	9776.9	9748.5	9713.6	9683.6
30°	13715.0	13711.5	13415.6	12964.9	12489.2	11696.0	10491.9	10435.4	10352.2	10257.4	10184.4
32.5°	14737.7	14732.7	14408.4	13941.1	13442.1	12757.0	11446.6	11330.1	11200.3	11015.8	10904.3
35°	15542.6	15539.2	15233.2	14745.9	14173.8	13756.5	12540.8	12397.8	12233.2	11985.4	11814.1
37.5°	15846.9	15846.9	15675.6	15343.1	14837.5	14551.4	13756.5	13583.5	13407.3	13126.2	12933.3
40°	15669.0	15672.3	15708.8	15647.2	15401.3	15181.6	14890.7	14787.4	14636.3	14383.4	14182.3
42.5°	15071.9	15090.2	15333.0	15630.7	15753.8	15718.8	15896.8	15850.2	15743.8	15549.2	15389.6
45°	14315.2	14371.8	14637.8	15200.0	15851.9	16182.7	16739.9	16744.9	16725.0	16620.3	16497.2
47.5°	13275.8	13355.7	13706.6	14466.6	15622.3	16633.5	17596.4	17641.3	17682.9	17614.7	17558.1
50°	11895.5	11990.3	12515.8	13523.7	15155.0	17100.8	19214.4	19417.4	19606.9	19583.7	19621.9
52.5°	10417.1	10528.6	11172.1	12294.7	14351.9	17208.9	20248.9	20579.8	20910.7	21181.9	21469.5
55°	9083.4	9023.6	9667.1	10849.5	13031.4	16721.6	21178.5	21577.6	21946.9	22279.5	22621.9
57.5°	7275.7	7373.7	8019.1	9188.1	11283.6	15346.4	21818.8	22402.6	22933.0	23483.4	23969.0
60°	5318.3	5416.4	6116.6	7303.9	9386.1	13260.9	21329.8	22214.5	23064.3	23907.5	24566.0
62.5°	3211.4	3284.5	3901.3	5032.2	7237.5	10787.9	19151.2	20312.0	21562.6	22570.5	23579.9
65°	1999.0	2040.5	2268.4	2890.3	4648.1	8053.9	15647.2	16912.8	18259.8	19538.8	20588.2
67.5°	1636.4	1651.4	1692.9	1826.0	2552.8	5251.9	11646.0	12767.0	13982.7	15220.0	16387.3
70°	1471.8	1461.8	1461.8	1470.0	1636.4	2823.8	7625.0	8355.0	9367.7	10443.8	11511.4
72.5°	1328.8	1318.8	1300.4	1275.6	1335.4	1722.9	3941.4	4491.9	5221.8	6178.2	7200.9
75°	1194.0	1180.7	1159.2	1127.6	1169.1	1300.4	1892.5	2123.7	2479.5	2988.4	3558.8
77.5°	1054.3	1037.7	1017.8	994.5	1047.8	1011.1	1109.2	1192.4	1328.8	1491.7	1706.2
80°	896.4	881.3	874.8	863.1	926.3	769.9	783.3	834.9	914.7	1002.8	1102.6
82.5°	701.8	701.8	728.3	733.3	803.3	553.7	585.3	630.3	671.8	718.5	764.9
85°	462.3	465.6	555.4	590.4	633.7	372.4	439.0	454.1	487.3	513.9	533.9
87.5°	144.6	156.3	339.3	375.9	364.3	211.2	269.4	276.0	299.3	317.6	334.3
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4
2.5°	3168.1	3148.1	3129.8	3128.2	3114.9	3096.5	3103.1	3074.9	3076.5	3061.7	3045.0
5°	3725.1	3711.8	3645.3	3627.0	3577.1	3545.5	3540.6	3474.0	3465.8	3427.5	3385.9
7.5°	4526.6	4483.5	4390.3	4345.5	4260.7	4197.4	4167.4	4079.4	4036.2	3936.4	3891.5
10°	5366.6	5311.7	5197.0	5133.8	5052.2	4950.7	4895.9	4767.8	4718.0	4626.5	4516.8
12.5°	6144.9	6090.0	5971.9	5923.7	5815.5	5707.6	5647.6	5502.8	5438.1	5291.7	5205.1
15°	6864.9	6810.1	6706.9	6657.1	6549.0	6460.8	6381.0	6238.0	6161.5	6025.1	5912.0
17.5°	7563.4	7505.2	7415.4	7370.5	7265.8	7175.9	7089.5	6954.8	6876.5	6740.3	6638.7
20°	8211.9	8168.7	8103.9	8044.1	7939.2	7857.7	7754.7	7638.2	7525.1	7425.4	7328.9
22.5°	8777.3	8760.8	8690.9	8664.3	8574.5	8504.7	8414.9	8300.1	8218.7	8092.2	8002.5
25°	9264.7	9259.6	9226.4	9218.0	9154.8	9088.4	9068.4	8973.6	8898.8	8787.4	8694.2
27.5°	9683.6	9688.7	9680.5	9703.8	9687.1	9657.0	9658.8	9627.1	9583.9	9490.9	9409.3
30°	10149.4	10122.8	10137.7	10171.0	10181.0	10184.4	10239.2	10257.4	10254.2	10192.6	10152.7
32.5°	10808.0	10744.7	10686.5	10681.6	10714.9	10728.1	10821.3	10869.5	10911.1	10926.1	10932.6
35°	11647.8	11521.4	11400.0	11335.2	11278.6	11293.5	11360.1	11438.2	11529.7	11592.8	11667.7
37.5°	12705.4	12550.8	12336.2	12183.3	12144.9	12061.8	12105.1	12166.6	12256.5	12354.5	12484.3
40°	13987.6	13753.1	13511.9	13309.1	13199.3	13046.4	13044.6	13033.1	13087.9	13179.5	13362.3
42.5°	15221.6	15013.7	14757.5	14544.7	14401.6	14197.2	14155.6	14047.4	14072.5	14152.3	14330.2
45°	16377.4	16206.1	16049.7	15803.6	15682.3	15461.1	15391.2	15263.1	15191.6	15228.2	15406.2
47.5°	17496.6	17386.9	17223.8	17064.3	16971.0	16773.2	16683.3	16592.0	16500.4	16497.2	16683.3
50°	19678.5	19620.2	19427.4	19261.1	19306.0	19063.1	19078.2	18832.0	18943.4	18956.8	19347.5
52.5°	21728.9	21931.8	22074.9	22249.5	22362.5	22384.1	22459.1	22570.5	22705.1	22971.2	23333.7
55°	22903.0	23157.4	23305.4	23438.5	23658.0	23704.7	23829.3	23977.4	24095.4	24394.7	24702.4
57.5°	24298.3	24770.7	25000.1	25211.3	25507.4	25620.4	25828.2	25989.7	26142.7	26496.9	26869.4
60°	25158.1	25733.4	26200.9	26535.0	26905.9	27172.0	27486.2	27739.1	28098.4	28522.4	29077.9
62.5°	24474.6	25319.4	25939.6	26513.5	27017.3	27526.3	27977.0	28449.2	28994.7	29636.6	30498.0
65°	21752.3	22612.0	23674.7	24270.0	24936.9	25721.9	26407.0	27172.0	27915.4	28850.0	30123.9
67.5°	17511.6	18511.1	19705.1	20305.4	21072.0	21948.5	22716.8	23651.5	24519.4	25652.0	27226.9
70°	12622.3	13914.4	14919.0	15545.9	16440.6	17343.5	18085.2	19173.0	19891.3	21052.0	22680.1
72.5°	7992.5	9011.8	10242.6	11032.4	11827.4	12742.0	13500.4	14438.3	15108.6	16166.2	17641.3
75°	4297.2	5049.0	6129.9	6879.8	7731.4	8513.0	9401.0	10029.7	10525.3	11361.8	12559.2
77.5°	2013.9	2471.2	3018.3	3595.5	4172.4	4774.5	5359.8	5868.7	6081.6	6560.6	7267.4
80°	1222.4	1370.4	1530.0	1707.9	1949.1	2143.6	2401.3	2587.7	2601.0	2752.2	2968.4
82.5°	816.5	871.4	919.7	964.5	1026.0	1074.4	1129.2	1194.0	1220.6	1255.7	1325.4
85°	557.0	583.7	593.7	621.9	615.2	632.0	653.5	675.2	686.8	685.1	716.8
87.5°	342.6	355.9	362.6	369.3	364.3	357.5	367.5	379.2	382.5	372.4	375.9
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°	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4
2.5°	3048.3	3033.3	3018.3	3008.5	3005.1	2916.9	2878.7	2853.7	2800.6	2757.3	2722.4
5°	3362.6	3331.1	3306.1	3276.2	3259.5	3036.7	2955.2	2898.7	2805.4	2750.6	2700.8
7.5°	3868.2	3780.1	3728.4	3670.2	3620.3	3217.9	3083.3	2995.0	2865.4	2792.2	2735.7
10°	4441.8	4350.4	4268.9	4179.2	4101.0	3459.1	3262.9	3126.6	2955.2	2860.5	2785.6
12.5°	5082.3	4992.4	4889.3	4774.5	4674.7	3765.1	3492.3	3297.8	3063.3	2936.9	2832.1
15°	5838.9	5680.8	5556.1	5423.1	5306.6	4130.9	3760.0	3490.6	3178.1	3006.7	2867.0
17.5°	6542.3	6376.0	6206.4	6090.0	5955.3	4541.7	4029.4	3687.0	3272.9	3051.6	2873.7
20°	7229.1	7047.8	6901.5	6745.3	6603.8	4967.4	4317.2	3859.8	3334.4	3053.2	2832.1
22.5°	7834.5	7721.4	7558.3	7388.7	7245.8	5393.2	4586.6	4006.3	3357.7	3015.0	2759.0
25°	8522.9	8403.3	8203.6	8060.6	7901.0	5827.2	4850.9	4119.3	3344.3	2943.6	2645.9
27.5°	9258.0	9125.0	8920.3	8770.7	8577.8	6277.9	5093.7	4200.7	3294.4	2827.1	2494.6
30°	10024.6	9903.3	9702.1	9550.7	9356.1	6755.2	5364.9	4255.7	3194.6	2665.8	2318.3
32.5°	10847.8	10746.5	10546.8	10388.9	10181.0	7272.4	5617.7	4272.2	3043.3	2474.7	2131.9
35°	11629.5	11559.6	11391.6	11243.6	11027.5	7761.3	5885.4	4264.0	2863.6	2265.0	1962.3
37.5°	12509.2	12467.7	12384.5	12196.6	11932.1	8424.8	6206.4	4229.0	2644.3	2057.2	1832.6
40°	13447.2	13450.4	13360.8	13232.7	12986.4	9229.7	6588.9	4160.9	2404.8	1874.3	1714.5
42.5°	14440.0	14491.5	14448.2	14356.8	14120.6	10041.3	7046.1	4077.8	2171.9	1696.3	1598.2
45°	15577.5	15640.7	15707.1	15572.5	15343.1	11112.3	7648.2	3969.6	1920.8	1548.3	1518.3
47.5°	16889.7	16989.4	17049.2	17050.9	16821.4	12439.4	8626.1	3904.8	1697.9	1448.4	1480.0
50°	19658.5	19690.0	19831.4	20077.6	19901.3	15510.9	10334.0	3864.9	1546.6	1387.0	1451.8
52.5°	23648.2	23995.6	24240.1	24223.4	23983.9	17461.7	11275.3	3658.6	1456.8	1363.6	1438.5
55°	25272.8	25706.8	26159.3	26278.9	26092.7	19126.4	12164.9	3452.5	1413.6	1380.2	1443.4
57.5°	27438.1	28169.8	28790.0	29051.1	28781.9	21256.7	13335.7	3344.3	1400.3	1425.3	1475.0
60°	29967.5	30872.2	31687.2	32156.1	32156.1	23704.7	14549.7	3299.5	1382.0	1491.7	1528.2
62.5°	31592.3	32921.1	34151.7	34838.4	34818.6	25409.2	15088.6	3146.5	1340.5	1538.3	1601.5
65°	31599.0	33178.8	34747.0	35518.7	35558.6	25199.7	14198.8	2778.8	1263.8	1544.9	1674.7
67.5°	28964.7	30649.5	32477.1	33340.1	33539.7	23197.4	12291.4	2285.0	1139.2	1478.4	1701.3
70°	24463.0	26107.7	27973.6	28821.7	29176.0	19774.8	9900.0	1761.1	979.5	1332.0	1646.4
72.5°	19272.6	20885.9	22184.6	22804.9	23081.1	15115.2	7209.2	1330.4	803.3	1122.5	1498.4
75°	13645.1	14855.7	15545.9	15683.9	15727.2	9111.7	4380.3	989.6	662.0	873.2	1265.5
77.5°	7701.3	8220.3	8163.7	8225.3	7713.0	3517.3	1907.6	708.5	545.5	663.6	981.2
80°	3006.7	3099.8	2911.9	2853.7	2617.7	1308.8	841.5	493.9	435.7	502.2	686.8
82.5°	1325.4	1368.7	1328.8	1338.7	1280.5	675.2	503.9	357.5	332.6	367.5	455.7
85°	730.1	743.3	740.1	761.7	730.1	269.4	239.5	219.5	232.8	249.5	292.7
87.5°	355.9	359.2	347.6	365.9	354.2	136.4	118.0	124.8	136.4	139.6	139.6
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°	2855.4	2855.4	2855.4	2855.4	2855.4	2855.4
2.5°	2697.4	2684.0	2685.8	2682.5	2675.8	2675.8
5°	2674.2	2660.8	2660.8	2657.5	2649.2	2650.9
7.5°	2697.4	2675.8	2667.4	2655.7	2644.3	2644.3
10°	2724.0	2685.8	2662.4	2642.5	2627.5	2627.5
12.5°	2744.0	2684.0	2645.9	2619.3	2604.2	2604.2
15°	2750.6	2672.5	2619.3	2587.7	2574.4	2572.7
17.5°	2729.1	2627.5	2562.8	2526.2	2509.4	2504.6
20°	2662.4	2546.1	2468.0	2426.3	2403.1	2394.7
22.5°	2562.8	2429.6	2338.2	2295.0	2265.0	2260.0
25°	2423.0	2280.0	2190.2	2148.7	2131.9	2126.9
27.5°	2260.0	2126.9	2050.6	2023.9	2008.9	2007.3
30°	2105.4	1992.4	1935.8	1915.7	1897.5	1894.2
32.5°	1960.7	1889.1	1867.5	1839.3	1796.0	1791.1
35°	1857.5	1851.0	1836.0	1772.7	1719.5	1704.7
37.5°	1794.4	1855.9	1779.5	1654.7	1616.4	1613.1
40°	1757.9	1804.3	1673.1	1629.7	1633.1	1629.7
42.5°	1674.7	1722.9	1676.2	1656.4	1669.7	1673.1
45°	1591.4	1644.7	1701.3	1687.9	1719.5	1719.5
47.5°	1544.9	1624.8	1699.7	1699.7	1746.1	1762.8
50°	1491.7	1608.1	1673.1	1696.3	1732.9	1719.5
52.5°	1488.4	1579.8	1634.7	1676.2	1692.9	1677.9
55°	1493.4	1556.7	1596.5	1643.1	1663.0	1664.6
57.5°	1500.0	1543.3	1569.9	1591.4	1651.4	1651.4
60°	1516.7	1531.6	1546.6	1558.2	1636.4	1638.1
62.5°	1543.3	1520.0	1516.7	1528.2	1628.1	1621.4
65°	1584.9	1503.4	1478.4	1490.1	1619.7	1599.8
67.5°	1641.5	1478.4	1430.2	1438.5	1613.1	1569.9
70°	1692.9	1438.5	1370.4	1362.0	1549.9	1473.4
72.5°	1697.9	1392.0	1287.2	1262.2	1347.1	1273.8
75°	1614.9	1360.4	1195.7	1122.5	1112.6	1102.6
77.5°	1455.2	1342.1	1089.3	974.5	954.5	961.2
80°	1217.4	1273.8	961.2	824.9	933.0	921.3
82.5°	909.7	1124.1	816.5	730.1	728.3	643.5
85°	505.6	876.3	665.3	547.2	380.8	369.3
87.5°	141.4	487.3	465.6	309.3	211.2	219.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)