

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: P194736

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194736
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-08-LED-E1-T2R-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 32745 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

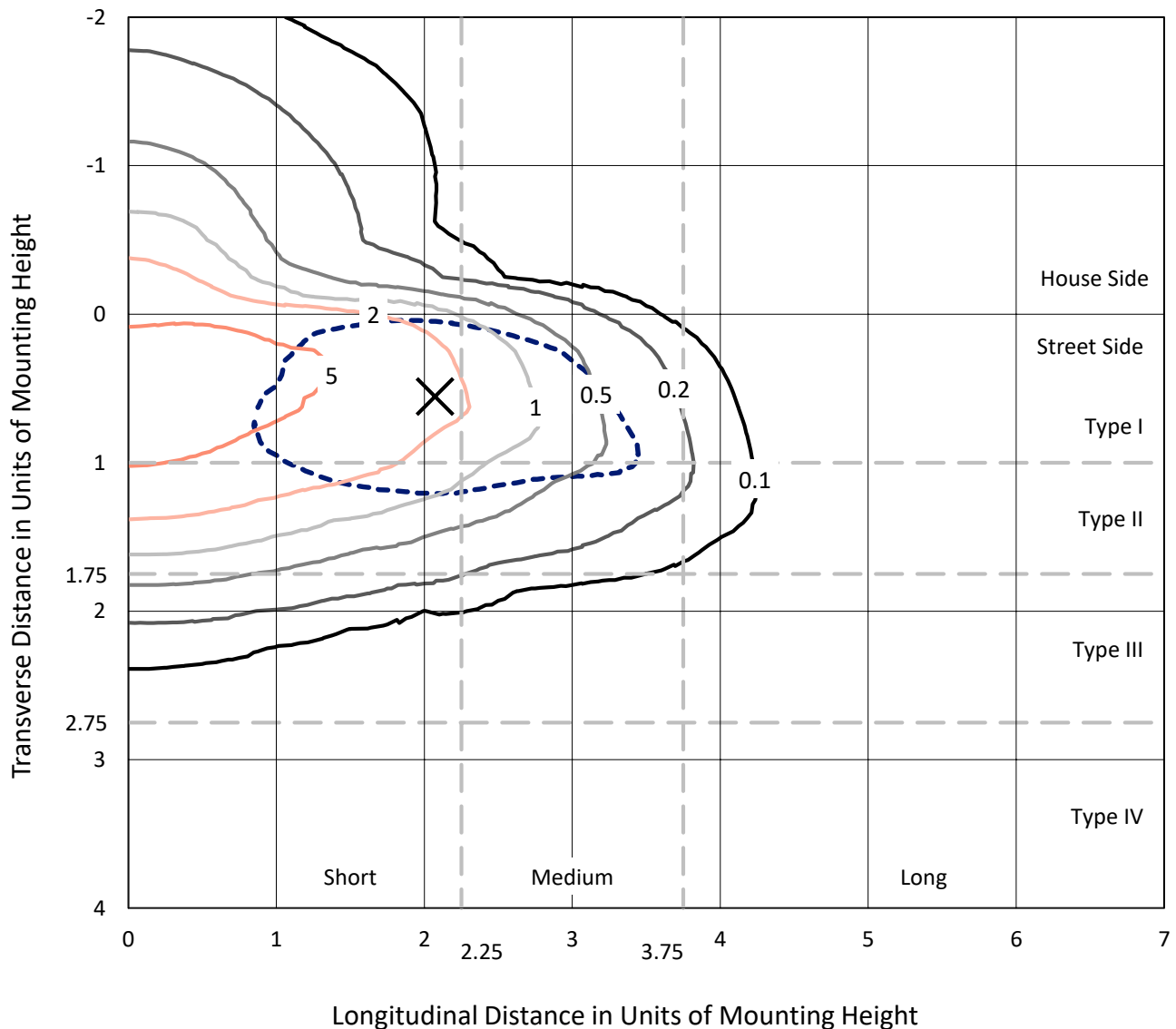


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

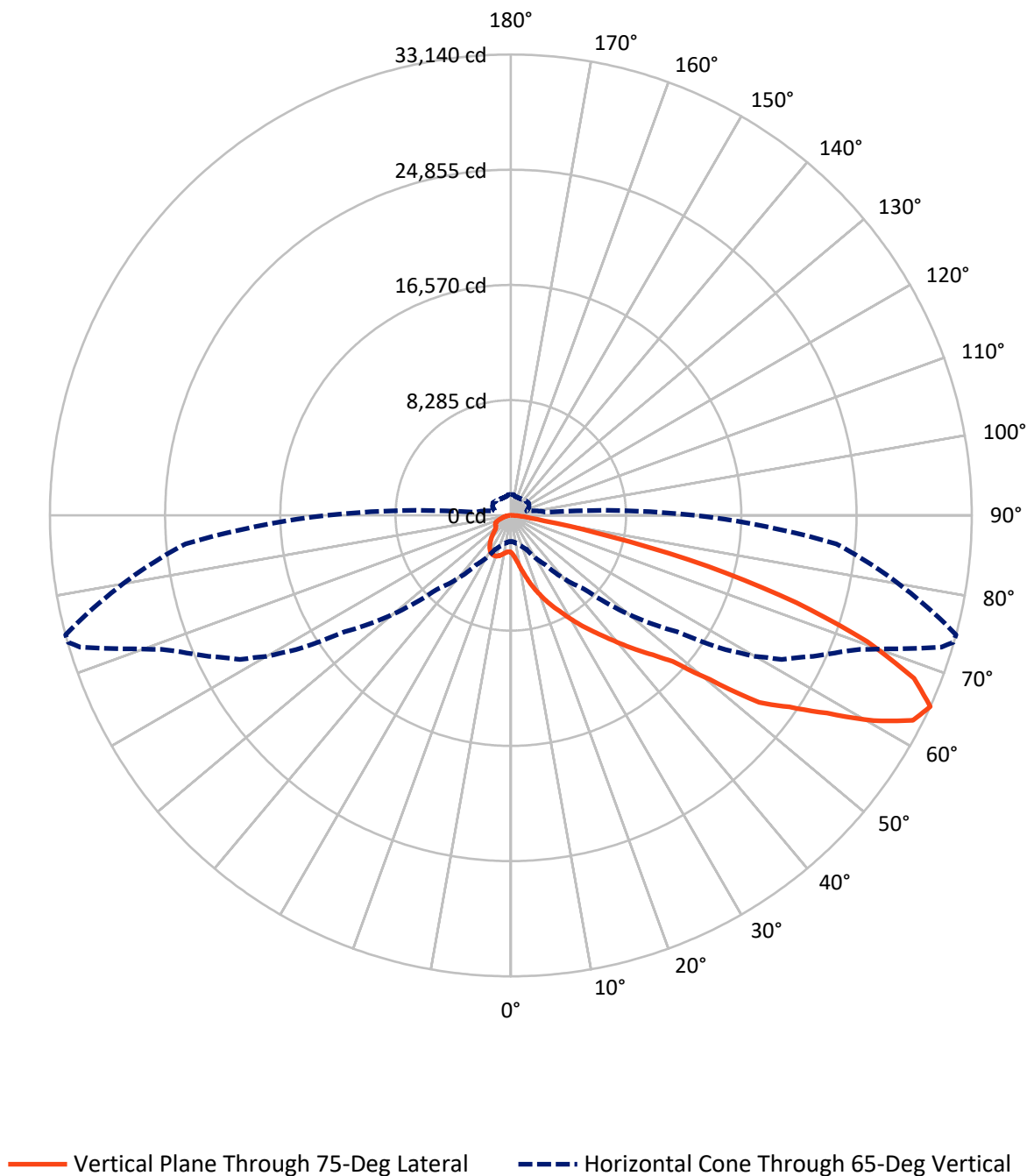


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5048.5	0.0	5048.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	27696.5	0.0	27696.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	32745.0	0.0	32745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	1.0
10°-20°	1285.2	3.9
20°-30°	2636.8	8.1
30°-40°	4436.3	13.5
40°-50°	6129.7	18.7
50°-60°	7651.7	23.4
60°-70°	6885.7	21.0
70°-80°	2886.4	8.8
80°-90°	504.3	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°	32745.0	100.0
0°-180°	32745.0	100.0

Coefficient of Utilization



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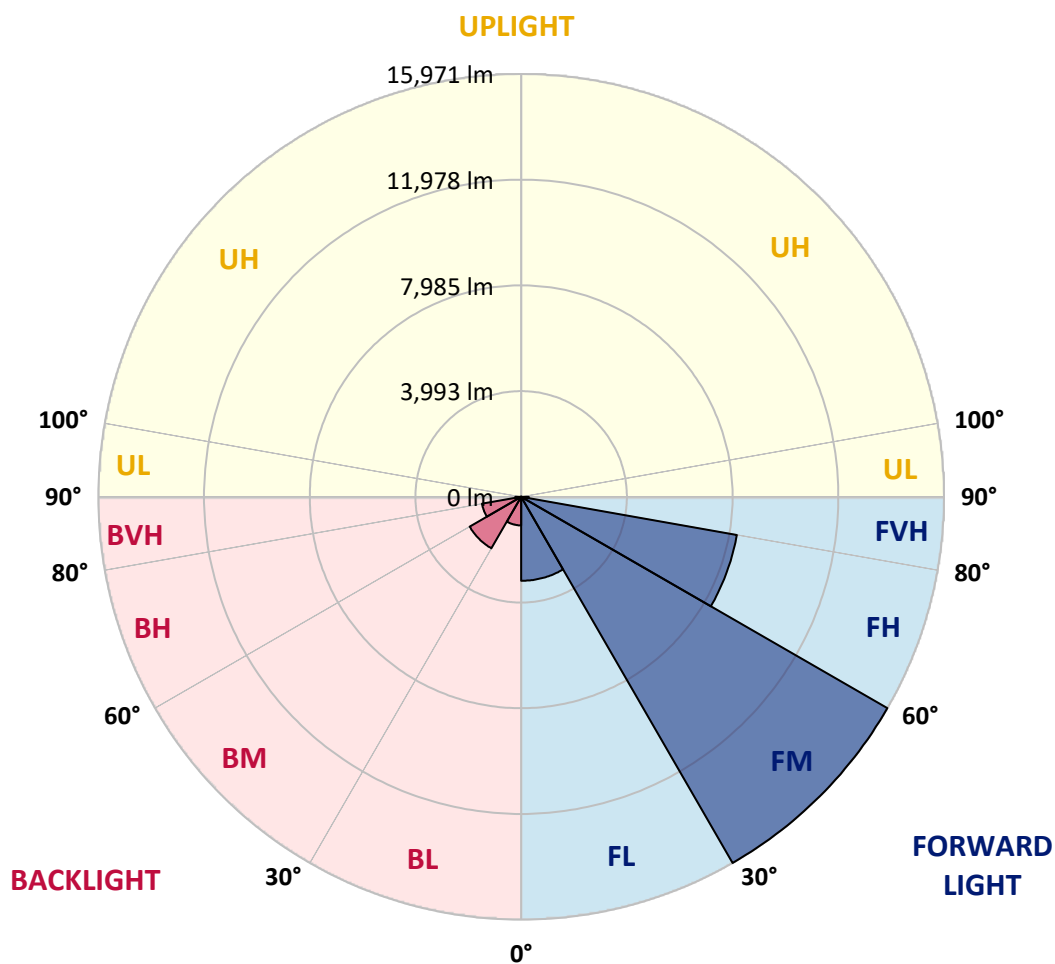
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3171.3	9.7			
FM	(30°-60°)	15970.5	48.8			
FH	(60°-80°)	8271.3	25.3			G4/12000
FVH	(80°-90°)	283.4	0.9			G3/500
BL	(0°-30°)	1079.7	3.3	B3/2500		
BM	(30°-60°)	2247.1	6.9	B2/2500		
BH	(60°-80°)	1500.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	220.8	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°	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2
2.5°	3378.8	3341.6	3350.9	3288.9	3212.9	3113.7	3003.7	3002.1	3003.7	2992.8	2952.5
5°	4685.3	4640.4	4623.3	4483.8	4279.2	3987.9	3671.7	3637.6	3623.6	3588.0	3505.8
7.5°	5638.5	5613.7	5587.3	5482.0	5296.0	4970.5	4545.8	4473.0	4403.2	4386.2	4293.2
10°	6253.8	6247.6	6191.8	6163.9	6047.7	5765.6	5351.8	5282.0	5206.1	5179.7	5082.1
12.5°	6740.5	6738.9	6712.6	6720.3	6619.6	6415.0	6058.5	5995.0	5939.2	5858.6	5788.8
15°	7076.8	7078.3	7117.1	7160.5	7145.0	7007.0	6672.3	6644.4	6596.3	6540.5	6458.4
17.5°	7352.7	7360.4	7400.7	7479.8	7565.0	7554.2	7289.1	7265.9	7224.0	7148.1	7104.7
20°	7975.7	8005.2	7927.7	7927.7	7937.0	7978.8	7851.7	7833.1	7774.2	7733.9	7699.8
22.5°	9028.1	9062.2	8887.1	8708.8	8533.7	8406.6	8279.5	8302.7	8262.5	8234.6	8214.4
25°	10395.1	10421.4	10137.8	9837.1	9480.7	9015.7	8701.1	8687.1	8665.4	8648.4	8639.1
27.5°	11681.5	11692.4	11424.2	10984.1	10570.2	9902.2	9128.8	9111.8	9085.4	9052.9	9025.0
30°	12781.9	12778.8	12502.9	12082.9	11639.7	10900.4	9778.2	9725.5	9648.1	9559.7	9491.5
32.5°	13735.1	13730.5	13428.2	12992.7	12527.7	11889.2	10667.9	10559.4	10438.5	10266.5	10162.6
35°	14485.3	14482.2	14197.0	13742.9	13209.7	12820.7	11687.7	11554.4	11401.0	11170.0	11010.4
37.5°	14768.9	14768.9	14609.2	14299.3	13828.1	13561.5	12820.7	12659.5	12495.2	12233.3	12053.5
40°	14603.0	14606.1	14640.2	14582.9	14353.5	14148.9	13877.7	13781.6	13640.6	13405.0	13217.4
42.5°	14046.6	14063.7	14290.0	14567.4	14682.1	14649.5	14815.4	14772.0	14672.8	14491.5	14342.7
45°	13341.4	13394.1	13642.1	14166.0	14773.5	15082.0	15601.2	15605.8	15587.2	15489.6	15374.9
47.5°	12372.8	12447.2	12774.2	13482.5	14559.6	15502.0	16399.4	16441.2	16480.0	16416.4	16363.7
50°	11086.3	11174.7	11664.5	12603.7	14124.1	15937.5	17907.4	18096.5	18273.2	18251.5	18287.1
52.5°	9708.5	9812.3	10412.1	11458.3	13375.5	16038.2	18871.4	19179.9	19488.3	19740.9	20009.1
55°	8465.5	8409.7	9009.5	10111.5	12144.9	15584.1	19737.8	20109.8	20453.9	20763.8	21083.1
57.5°	6780.8	6872.2	7473.6	8563.1	10516.0	14302.4	20334.5	20878.5	21373.0	21886.0	22338.5
60°	4956.5	5048.0	5700.5	6807.1	8747.6	12358.8	19878.9	20703.4	21495.4	22281.2	22894.9
62.5°	2992.8	3061.0	3636.0	4690.0	6745.1	10054.1	17848.5	18930.3	20095.8	21035.1	21975.9
65°	1863.0	1901.7	2114.0	2693.7	4331.9	7506.1	14582.9	15762.4	17017.8	18209.6	19187.6
67.5°	1525.1	1539.0	1577.8	1701.8	2379.1	4894.5	10853.9	11898.5	13031.5	14184.6	15272.6
70°	1371.7	1362.4	1362.4	1370.1	1525.1	2631.7	7106.2	7786.6	8730.5	9733.3	10728.3
72.5°	1238.4	1229.1	1212.0	1188.8	1244.6	1605.7	3673.2	4186.2	4866.6	5757.8	6711.0
75°	1112.8	1100.4	1080.3	1050.8	1089.6	1212.0	1763.8	1979.2	2310.9	2785.1	3316.8
77.5°	982.6	967.1	948.5	926.8	976.4	942.3	1033.8	1111.3	1238.4	1390.2	1590.2
80°	835.4	821.4	815.2	804.4	863.3	717.6	730.0	778.0	852.4	934.6	1027.6
82.5°	654.1	654.1	678.9	683.5	748.6	516.1	545.6	587.4	626.2	669.6	712.9
85°	430.9	434.0	517.7	550.2	590.5	347.2	409.2	423.1	454.1	478.9	497.5
87.5°	134.8	145.7	316.2	350.3	339.4	196.8	251.1	257.3	279.0	296.0	311.5
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°	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2
2.5°	2952.5	2933.9	2916.9	2915.3	2902.9	2885.9	2892.1	2865.7	2867.3	2853.3	2837.8
5°	3471.7	3459.3	3397.4	3380.3	3333.8	3304.4	3299.7	3237.7	3230.0	3194.3	3155.6
7.5°	4218.8	4178.5	4091.7	4049.9	3970.8	3911.9	3884.0	3801.9	3761.6	3668.6	3626.7
10°	5001.5	4950.3	4843.4	4784.5	4708.6	4614.0	4562.9	4443.5	4397.0	4311.8	4209.5
12.5°	5726.8	5675.7	5565.6	5520.7	5420.0	5319.2	5263.4	5128.6	5068.1	4931.7	4851.1
15°	6397.9	6346.8	6250.7	6204.2	6103.5	6021.3	5946.9	5813.6	5742.3	5615.2	5509.9
17.5°	7048.9	6994.6	6911.0	6869.1	6771.5	6687.8	6607.2	6481.6	6408.8	6281.7	6187.2
20°	7653.3	7613.0	7552.6	7496.8	7399.2	7323.2	7227.1	7118.6	7013.2	6920.2	6830.4
22.5°	8180.3	8164.8	8099.7	8074.9	7991.2	7926.1	7842.4	7735.5	7659.5	7541.8	7458.1
25°	8634.4	8629.8	8598.8	8591.0	8532.1	8470.1	8451.5	8363.2	8293.5	8189.6	8102.8
27.5°	9025.0	9029.6	9021.9	9043.6	9028.1	9000.2	9001.7	8972.3	8932.0	8845.2	8769.3
30°	9459.0	9434.2	9448.1	9479.1	9488.4	9491.5	9542.7	9559.7	9556.6	9499.3	9462.1
32.5°	10072.7	10013.8	9959.6	9954.9	9985.9	9998.3	10085.1	10130.1	10168.8	10182.8	10189.0
35°	10855.4	10737.6	10624.5	10564.0	10511.3	10525.3	10587.3	10660.1	10745.4	10804.3	10874.0
37.5°	11841.1	11697.0	11497.1	11354.5	11318.8	11241.3	11281.6	11339.0	11422.7	11514.1	11635.0
40°	13036.1	12817.6	12592.8	12403.8	12301.5	12158.9	12157.3	12146.5	12197.6	12282.9	12453.3
42.5°	14186.1	13992.4	13753.7	13555.3	13422.0	13231.4	13192.6	13091.9	13115.2	13189.5	13355.4
45°	15263.3	15103.7	14958.0	14728.6	14615.4	14409.3	14344.2	14224.9	14158.2	14192.3	14358.2
47.5°	16306.4	16204.1	16052.2	15903.4	15816.6	15632.2	15548.5	15463.2	15378.0	15374.9	15548.5
50°	18339.8	18285.6	18105.8	17950.8	17992.6	17766.4	17780.3	17550.9	17654.8	17667.2	18031.4
52.5°	20250.8	20439.9	20573.2	20736.0	20841.3	20861.5	20931.2	21035.1	21160.6	21408.6	21746.5
55°	21345.1	21582.2	21720.1	21844.1	22048.7	22092.1	22208.3	22346.3	22456.3	22735.3	23022.0
57.5°	22645.4	23085.6	23299.5	23496.3	23772.2	23877.6	24071.3	24221.6	24364.2	24694.4	25041.5
60°	23446.7	23983.0	24418.5	24730.0	25075.6	25323.6	25616.5	25852.1	26186.9	26582.1	27099.8
62.5°	22809.7	23597.0	24175.2	24709.9	25179.5	25653.7	26073.8	26513.9	27022.3	27620.6	28423.4
65°	20272.5	21073.8	22064.2	22619.1	23240.6	23972.1	24610.7	25323.6	26016.4	26887.5	28074.7
67.5°	16320.3	17251.8	18364.6	18924.1	19638.6	20455.4	21171.5	22042.5	22851.5	23907.0	25374.8
70°	11763.6	12967.9	13904.0	14488.4	15322.2	16163.8	16855.0	17868.7	18538.2	19620.0	21137.4
72.5°	7448.8	8398.8	9545.8	10282.0	11022.8	11875.2	12582.0	13456.1	14080.7	15066.5	16441.2
75°	4004.9	4705.5	5712.9	6411.9	7205.4	7933.9	8761.5	9347.4	9809.2	10588.8	11704.8
77.5°	1876.9	2303.1	2813.0	3350.9	3888.7	4449.7	4995.3	5469.6	5667.9	6114.3	6773.0
80°	1139.2	1277.1	1425.9	1591.7	1816.5	1997.8	2238.0	2411.6	2424.0	2565.1	2766.5
82.5°	761.0	812.1	857.1	898.9	956.3	1001.2	1052.4	1112.8	1137.6	1170.2	1235.3
85°	519.2	544.0	553.3	579.7	573.5	589.0	609.1	629.3	640.1	638.6	668.0
87.5°	319.3	331.7	337.9	344.1	339.4	333.2	342.5	353.4	356.5	347.2	350.3
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°	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2
2.5°	2840.9	2827.0	2813.0	2803.7	2800.6	2718.5	2682.9	2659.6	2610.0	2569.7	2537.2
5°	3133.9	3104.4	3081.2	3053.3	3037.8	2830.1	2754.2	2701.5	2614.7	2563.5	2517.0
7.5°	3605.0	3522.9	3474.8	3420.6	3374.1	2999.0	2873.5	2791.3	2670.5	2602.3	2549.6
10°	4139.8	4054.5	3978.6	3894.9	3822.0	3223.8	3040.9	2913.8	2754.2	2665.8	2596.1
12.5°	4736.5	4652.8	4556.7	4449.7	4356.7	3508.9	3254.8	3073.4	2854.9	2737.1	2639.5
15°	5441.7	5294.4	5178.2	5054.2	4945.7	3849.9	3504.3	3253.2	2961.8	2802.2	2672.0
17.5°	6097.3	5942.3	5784.2	5675.7	5550.1	4232.7	3755.4	3436.1	3050.2	2844.0	2678.2
20°	6737.4	6568.4	6432.0	6286.3	6154.6	4629.5	4023.5	3597.3	3107.5	2845.6	2639.5
22.5°	7301.5	7196.1	7044.2	6886.2	6752.9	5026.3	4274.6	3733.7	3129.2	2809.9	2571.3
25°	7943.2	7831.6	7645.6	7512.3	7363.5	5430.8	4521.0	3839.1	3116.8	2743.3	2465.9
27.5°	8628.2	8504.2	8313.6	8174.1	7994.3	5850.8	4747.3	3915.0	3070.3	2634.8	2324.8
30°	9342.7	9229.6	9042.0	8901.0	8719.7	6295.6	4999.9	3966.2	2977.3	2484.5	2160.5
32.5°	10109.9	10015.4	9829.4	9682.2	9488.4	6777.7	5235.5	3981.7	2836.3	2306.2	1987.0
35°	10838.4	10773.3	10616.7	10478.8	10277.3	7233.3	5485.1	3973.9	2668.9	2110.9	1828.9
37.5°	11658.3	11619.5	11542.0	11366.9	11120.4	7851.7	5784.2	3941.4	2464.3	1917.2	1708.0
40°	12532.4	12535.5	12451.8	12332.5	12103.1	8601.9	6140.7	3877.8	2241.1	1746.7	1597.9
42.5°	13457.7	13505.7	13465.4	13380.2	13160.1	9358.2	6566.9	3800.3	2024.2	1580.9	1489.4
45°	14517.8	14576.7	14638.7	14513.2	14299.3	10356.4	7127.9	3699.6	1790.1	1442.9	1415.0
47.5°	15740.7	15833.7	15889.5	15891.0	15677.1	11593.2	8039.3	3639.1	1582.4	1350.0	1379.4
50°	18321.2	18350.7	18482.4	18711.8	18547.5	14455.8	9631.0	3601.9	1441.4	1292.6	1353.1
52.5°	22039.4	22363.3	22591.2	22575.7	22352.5	16273.8	10508.2	3409.8	1357.7	1270.9	1340.7
55°	23553.6	23958.2	24379.7	24491.3	24317.7	17825.3	11337.4	3217.6	1317.4	1286.4	1345.3
57.5°	25571.6	26253.6	26831.7	27075.0	26823.9	19810.7	12428.6	3116.8	1305.0	1328.3	1374.8
60°	27929.0	28772.1	29531.6	29968.6	29968.6	22092.1	13560.0	3075.0	1288.0	1390.2	1424.3
62.5°	29443.2	30681.6	31828.5	32468.6	32450.0	23680.7	14062.1	2932.4	1249.2	1433.6	1492.5
65°	29449.4	30921.8	32383.4	33102.5	33139.7	23485.5	13232.9	2589.9	1177.9	1439.8	1560.7
67.5°	26994.4	28564.4	30267.8	31072.2	31258.1	21619.4	11455.2	2129.5	1061.7	1377.9	1585.5
70°	22798.9	24331.7	26070.7	26861.1	27191.2	18429.7	9226.5	1641.3	912.9	1241.5	1534.4
72.5°	17961.7	19465.0	20675.5	21253.6	21510.9	14086.9	6718.8	1239.9	748.6	1046.2	1396.4
75°	12716.8	13845.1	14488.4	14617.0	14657.3	8491.8	4082.4	922.2	616.9	813.7	1179.5
77.5°	7177.5	7661.1	7608.4	7665.7	7188.4	3278.0	1777.7	660.3	508.4	618.4	914.4
80°	2802.2	2889.0	2713.9	2659.6	2439.5	1219.8	784.2	460.3	406.1	468.1	640.1
82.5°	1235.3	1275.6	1238.4	1247.7	1193.4	629.3	469.6	333.2	310.0	342.5	424.7
85°	680.4	692.8	689.7	709.8	680.4	251.1	223.2	204.6	217.0	232.5	272.8
87.5°	331.7	334.8	323.9	341.0	330.1	127.1	110.0	116.2	127.1	130.2	130.2
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°	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2
2.5°	2513.9	2501.5	2503.1	2500.0	2493.8	2493.8
5°	2492.2	2479.8	2479.8	2476.7	2469.0	2470.5
7.5°	2513.9	2493.8	2486.0	2475.2	2464.3	2464.3
10°	2538.7	2503.1	2481.4	2462.8	2448.8	2448.8
12.5°	2557.3	2501.5	2465.9	2441.1	2427.1	2427.1
15°	2563.5	2490.7	2441.1	2411.6	2399.2	2397.7
17.5°	2543.4	2448.8	2388.4	2354.3	2338.8	2334.1
20°	2481.4	2372.9	2300.0	2261.3	2239.6	2231.8
22.5°	2388.4	2264.4	2179.1	2138.8	2110.9	2106.3
25°	2258.2	2124.9	2041.2	2002.5	1987.0	1982.3
27.5°	2106.3	1982.3	1911.0	1886.2	1872.3	1870.7
30°	1962.2	1856.8	1804.1	1785.5	1768.4	1765.3
32.5°	1827.3	1760.7	1740.5	1714.2	1673.9	1669.2
35°	1731.2	1725.0	1711.1	1652.2	1602.6	1588.6
37.5°	1672.3	1729.7	1658.4	1542.1	1506.5	1503.4
40°	1638.2	1681.6	1559.2	1518.9	1522.0	1518.9
42.5°	1560.7	1605.7	1562.3	1543.7	1556.1	1559.2
45°	1483.2	1532.8	1585.5	1573.1	1602.6	1602.6
47.5°	1439.8	1514.2	1584.0	1584.0	1627.4	1642.9
50°	1390.2	1498.7	1559.2	1580.9	1615.0	1602.6
52.5°	1387.1	1472.4	1523.5	1562.3	1577.8	1563.8
55°	1391.8	1450.7	1487.9	1531.3	1549.9	1551.4
57.5°	1398.0	1438.3	1463.1	1483.2	1539.0	1539.0
60°	1413.5	1427.4	1441.4	1452.2	1525.1	1526.6
62.5°	1438.3	1416.6	1413.5	1424.3	1517.3	1511.1
65°	1477.0	1401.1	1377.9	1388.7	1509.6	1491.0
67.5°	1529.7	1377.9	1332.9	1340.7	1503.4	1463.1
70°	1577.8	1340.7	1277.1	1269.4	1444.5	1373.2
72.5°	1582.4	1297.3	1199.6	1176.4	1255.4	1187.2
75°	1504.9	1267.8	1114.4	1046.2	1036.9	1027.6
77.5°	1356.2	1250.8	1015.2	908.2	889.6	895.8
80°	1134.5	1187.2	895.8	768.7	869.5	858.6
82.5°	847.8	1047.7	761.0	680.4	678.9	599.8
85°	471.2	816.8	620.0	509.9	354.9	344.1
87.5°	131.7	454.1	434.0	288.3	196.8	204.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)