

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: P193163

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193163
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-05-LED-E1-T2R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32883.7 lumens
Efficiency: N/A
Efficacy: 102.8 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): 320
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



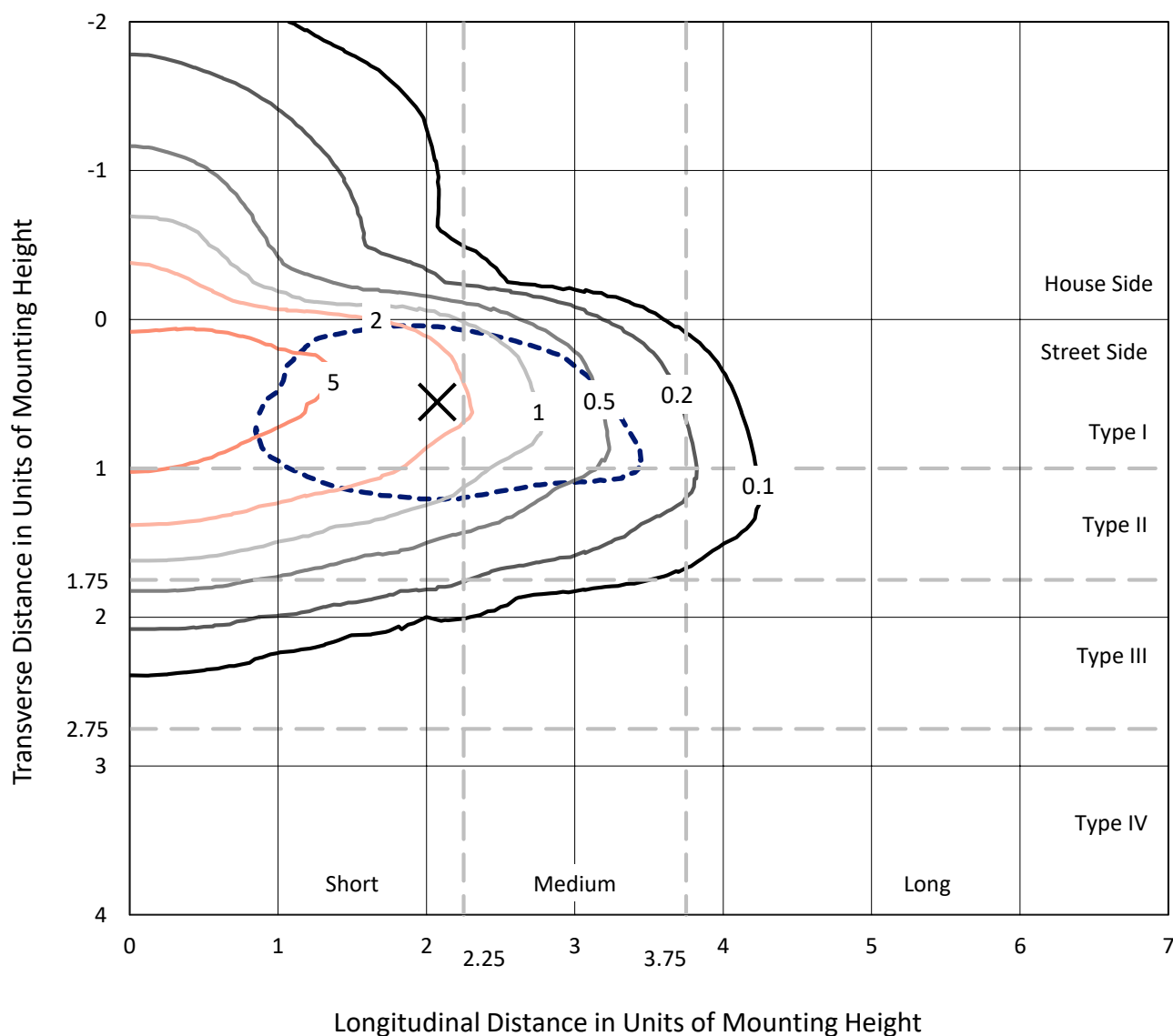
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

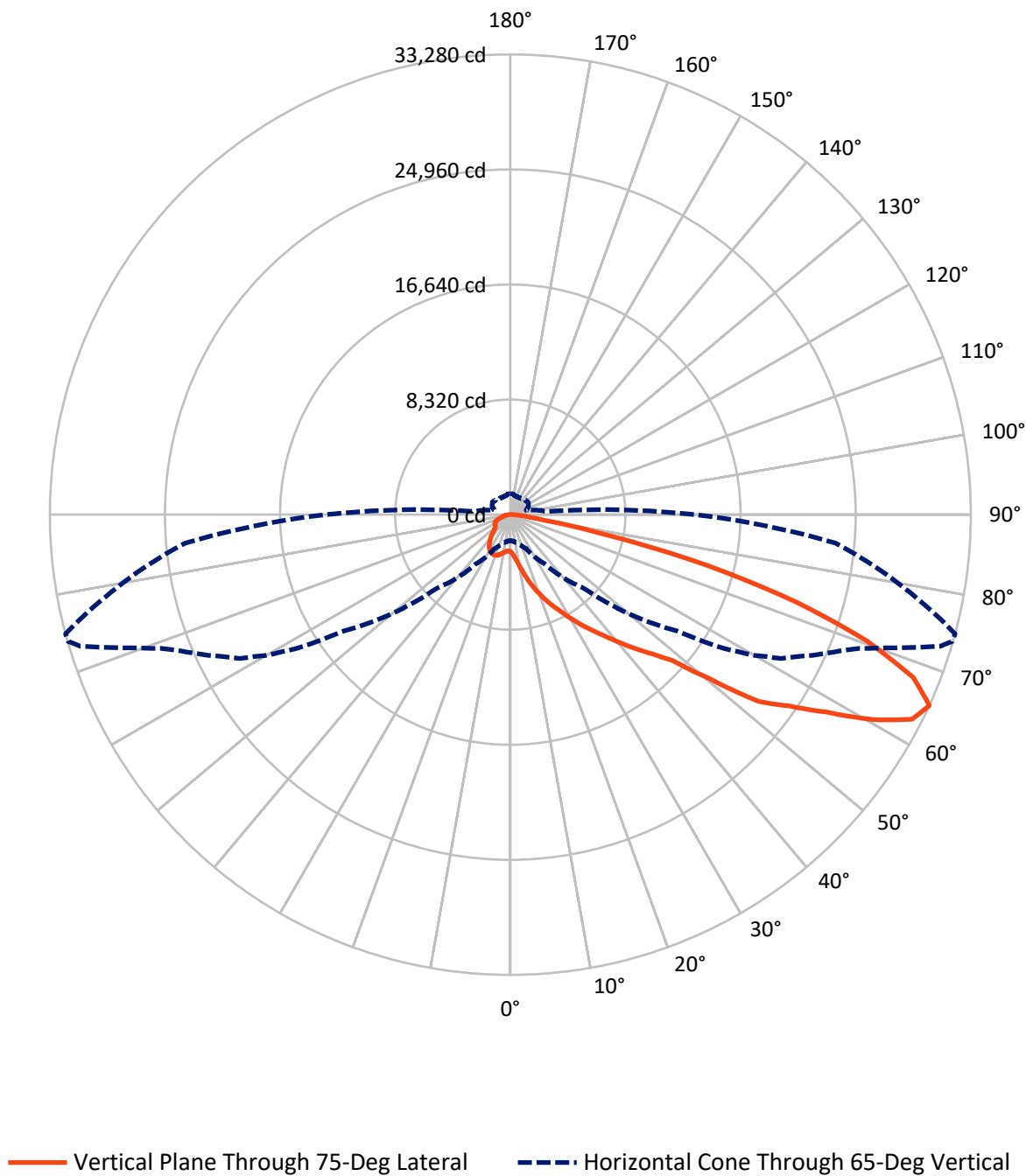


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5069.9	0.0	5069.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	27813.9	0.0	27813.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	32883.7	0.0	32883.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	1.0
10°-20°	1290.6	3.9
20°-30°	2648.0	8.1
30°-40°	4455.1	13.5
40°-50°	6155.7	18.7
50°-60°	7684.1	23.4
60°-70°	6914.9	21.0
70°-80°	2898.6	8.8
80°-90°	506.4	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°	32883.7	100.0
0°-180°	32883.7	100.0

Coefficient of Utilization



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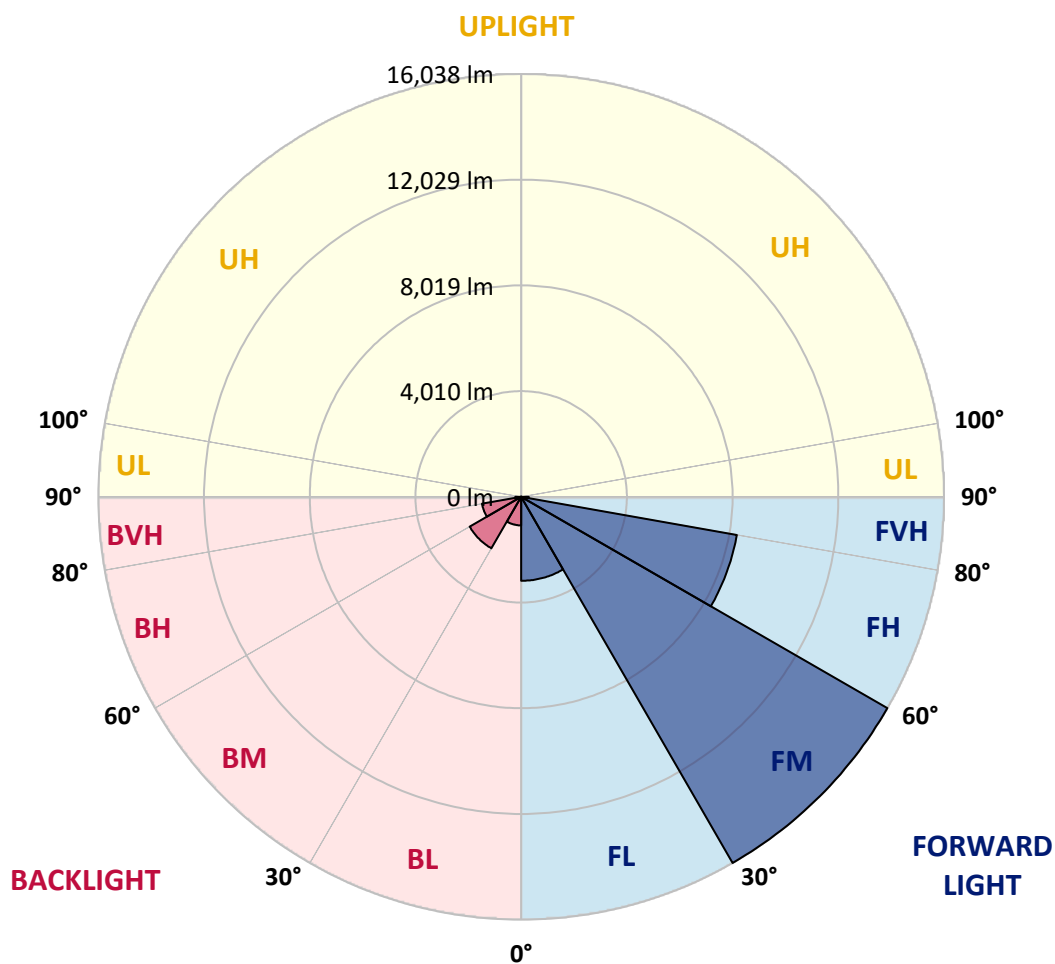
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3184.7	9.7			
FM	(30°-60°)	16038.2	48.8			
FH	(60°-80°)	8306.3	25.3			G4/12000
FVH	(80°-90°)	284.6	0.9			G3/500
BL	(0°-30°)	1084.2	3.3	B3/2500		
BM	(30°-60°)	2256.7	6.9	B2/2500		
BH	(60°-80°)	1507.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	221.8	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°	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5
2.5°	3393.0	3355.7	3365.0	3302.8	3226.5	3126.9	3016.4	3014.9	3016.4	3005.5	2965.1
5°	4705.1	4660.0	4642.9	4502.8	4297.3	4004.8	3687.3	3653.0	3639.0	3603.2	3520.7
7.5°	5662.4	5637.4	5611.0	5505.1	5318.4	4991.5	4565.1	4491.9	4421.9	4404.8	4311.4
10°	6280.3	6274.1	6218.1	6190.0	6073.2	5789.9	5374.5	5304.4	5228.2	5201.8	5103.6
12.5°	6769.0	6767.5	6741.0	6748.8	6647.7	6442.2	6084.2	6020.4	5964.4	5883.4	5813.3
15°	7106.8	7108.3	7147.2	7190.8	7175.3	7036.8	6700.6	6672.6	6624.3	6568.2	6485.7
17.5°	7383.8	7391.6	7432.1	7511.5	7597.1	7586.2	7320.1	7296.7	7254.6	7178.4	7134.7
20°	8009.5	8039.1	7961.2	7961.2	7970.6	8012.6	7885.0	7866.3	7807.2	7766.7	7732.5
22.5°	9066.4	9100.6	8924.8	8745.7	8569.9	8442.3	8314.6	8337.9	8297.4	8269.4	8249.2
25°	10439.1	10465.6	10180.8	9878.7	9520.9	9053.9	8737.9	8724.0	8702.2	8685.0	8675.7
27.5°	11731.0	11741.9	11472.7	11030.6	10615.0	9944.2	9167.5	9150.4	9123.9	9091.3	9063.3
30°	12836.1	12832.9	12556.0	12134.2	11689.0	10946.5	9819.6	9766.8	9688.9	9600.2	9531.8
32.5°	13793.3	13788.6	13485.1	13047.7	12580.8	11939.6	10713.1	10604.1	10482.8	10309.9	10205.7
35°	14546.7	14543.5	14257.1	13801.1	13265.7	12875.0	11737.2	11603.4	11449.3	11217.4	11057.0
37.5°	14831.5	14831.5	14671.2	14359.8	13886.8	13618.9	12875.0	12713.1	12548.1	12285.1	12104.5
40°	14664.9	14668.0	14702.3	14644.7	14414.3	14208.8	13936.4	13840.0	13698.4	13461.9	13273.5
42.5°	14106.1	14123.3	14350.5	14629.2	14744.3	14711.6	14878.2	14834.5	14734.9	14552.9	14403.4
45°	13397.9	13450.9	13699.9	14226.0	14836.1	15145.8	15667.2	15671.9	15653.2	15555.2	15440.1
47.5°	12425.2	12500.0	12828.3	13539.6	14621.3	15567.7	16468.8	16510.9	16549.8	16486.0	16433.0
50°	11133.3	11222.0	11713.9	12657.1	14183.9	16005.1	17983.3	18173.2	18350.6	18328.8	18364.7
52.5°	9749.6	9853.9	10456.2	11506.8	13432.3	16106.2	18951.4	19261.1	19570.8	19824.5	20093.9
55°	8501.4	8445.3	9047.6	10154.3	12196.4	15650.2	19821.5	20195.1	20540.5	20851.8	21172.5
57.5°	6809.5	6901.4	7505.2	8599.5	10560.6	14363.0	20420.7	20967.0	21463.6	21978.7	22433.2
60°	4977.6	5069.4	5724.6	6836.0	8784.7	12411.2	19963.1	20791.2	21586.5	22375.6	22992.0
62.5°	3005.5	3074.0	3651.5	4709.8	6773.7	10096.7	17924.1	19010.6	20181.1	21124.1	22069.0
65°	1870.8	1909.8	2123.0	2705.2	4350.2	7537.9	14644.7	15829.2	17089.9	18286.8	19269.0
67.5°	1531.6	1545.6	1584.5	1709.1	2389.2	4915.2	10899.8	11948.9	13086.6	14244.6	15337.3
70°	1377.4	1368.2	1368.2	1375.9	1531.6	2642.9	7136.4	7819.6	8767.5	9774.6	10773.8
72.5°	1243.6	1234.3	1217.1	1193.7	1249.8	1612.4	3688.8	4204.0	4887.2	5782.2	6739.4
75°	1117.5	1105.0	1084.8	1055.2	1094.2	1217.1	1771.2	1987.7	2320.6	2796.9	3330.8
77.5°	986.8	971.2	952.5	930.8	980.6	946.3	1038.2	1116.0	1243.6	1396.2	1597.0
80°	838.9	824.9	818.7	807.8	867.0	720.7	733.1	781.3	856.0	938.5	1032.0
82.5°	656.8	656.8	681.8	686.3	751.8	518.3	547.8	589.9	628.8	672.4	715.9
85°	432.6	435.8	519.8	552.6	593.1	348.6	411.0	424.9	456.0	481.0	499.7
87.5°	135.4	146.3	317.5	351.7	340.9	197.6	252.2	258.4	280.1	297.3	312.8
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°	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5
2.5°	2965.1	2946.4	2929.2	2927.7	2915.2	2898.1	2904.3	2877.9	2879.4	2865.5	2849.9
5°	3486.5	3474.0	3411.7	3394.5	3347.9	3318.3	3313.8	3251.4	3243.7	3207.9	3168.9
7.5°	4236.6	4196.2	4109.0	4067.0	3987.6	3928.5	3900.4	3817.9	3777.5	3684.1	3642.1
10°	5022.6	4971.3	4863.9	4804.7	4728.5	4633.5	4582.3	4462.3	4415.7	4330.1	4227.3
12.5°	5751.1	5699.7	5589.2	5544.2	5443.0	5341.8	5285.8	5150.3	5089.7	4952.6	4871.7
15°	6425.1	6373.6	6277.2	6230.5	6129.3	6046.9	5972.1	5838.3	5766.7	5639.1	5533.2
17.5°	7078.8	7024.3	6940.2	6898.2	6800.2	6716.0	6635.2	6509.1	6435.9	6308.3	6213.3
20°	7685.8	7645.3	7584.6	7528.6	7430.5	7354.2	7257.8	7148.9	7043.0	6949.6	6859.3
22.5°	8214.9	8199.4	8134.1	8109.1	8025.1	7959.7	7875.6	7768.3	7692.0	7573.8	7489.6
25°	8671.1	8666.3	8635.2	8627.4	8568.3	8506.1	8487.4	8398.6	8328.7	8224.3	8137.2
27.5°	9063.3	9067.9	9060.1	9081.9	9066.4	9038.4	9039.9	9010.3	8969.8	8882.7	8806.4
30°	9499.0	9474.2	9488.2	9519.3	9528.6	9531.8	9583.1	9600.2	9597.2	9539.5	9502.2
32.5°	10115.4	10056.2	10001.8	9997.1	10028.3	10040.7	10127.9	10173.0	10211.9	10225.9	10232.1
35°	10901.5	10783.2	10669.5	10608.8	10555.9	10569.8	10632.1	10705.3	10790.9	10850.1	10920.1
37.5°	11891.3	11746.6	11545.8	11402.7	11366.8	11289.0	11329.4	11387.0	11471.1	11562.9	11684.3
40°	13091.3	12872.0	12646.2	12456.3	12353.6	12210.4	12208.8	12197.9	12249.3	12335.0	12506.2
42.5°	14246.2	14051.8	13812.0	13612.7	13478.9	13287.4	13248.6	13147.3	13170.7	13245.4	13412.0
45°	15328.0	15167.7	15021.4	14791.0	14677.4	14470.4	14405.0	14285.1	14218.2	14252.5	14419.1
47.5°	16375.4	16272.7	16120.2	15970.8	15883.7	15698.4	15614.4	15528.8	15443.1	15440.1	15614.4
50°	18417.5	18363.1	18182.5	18026.9	18068.9	17841.6	17855.7	17625.2	17729.6	17742.1	18107.7
52.5°	20336.7	20526.5	20660.4	20823.8	20929.7	20949.9	21020.0	21124.1	21250.3	21499.3	21838.6
55°	21435.5	21673.6	21812.2	21936.6	22142.2	22185.7	22302.4	22441.0	22551.4	22831.7	23119.6
57.5°	22741.3	23183.4	23398.2	23595.8	23872.9	23978.8	24173.3	24324.3	24467.5	24799.0	25147.6
60°	23546.0	24084.6	24521.9	24834.8	25181.8	25430.9	25725.1	25961.6	26297.8	26694.8	27214.7
62.5°	22906.3	23697.0	24277.6	24814.5	25286.2	25762.5	26184.2	26626.3	27136.8	27737.6	28543.9
65°	20358.4	21163.1	22157.7	22714.9	23339.1	24073.7	24715.0	25430.9	26126.6	27001.4	28193.6
67.5°	16389.4	17324.9	18442.4	19004.3	19721.9	20542.1	21261.2	22135.9	22948.4	24008.3	25482.3
70°	11813.5	13022.8	13963.0	14549.7	15387.1	16232.3	16926.5	17944.4	18616.8	19703.2	21226.9
72.5°	7480.3	8434.5	9586.2	10325.5	11069.5	11925.5	12635.3	13513.1	14140.5	15130.3	16510.9
75°	4021.9	4725.4	5737.1	6439.0	7235.9	7967.5	8798.6	9387.0	9850.9	10633.6	11754.3
77.5°	1884.8	2312.9	2825.0	3365.0	3905.2	4468.6	5016.4	5492.7	5692.0	6140.3	6801.7
80°	1144.0	1282.4	1432.0	1598.5	1824.2	2006.2	2247.6	2421.8	2434.3	2575.9	2778.3
82.5°	764.3	815.6	860.8	902.7	960.3	1005.5	1056.9	1117.5	1142.5	1175.1	1240.5
85°	521.3	546.3	555.7	582.2	575.9	591.4	611.7	631.9	642.8	641.3	670.9
87.5°	320.6	333.1	339.4	345.6	340.9	334.7	343.9	354.9	358.0	348.6	351.7
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°	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5
2.5°	2853.0	2839.0	2825.0	2815.6	2812.6	2730.1	2694.3	2670.9	2621.0	2580.6	2547.9
5°	3147.1	3117.6	3094.2	3066.3	3050.6	2842.1	2765.8	2712.9	2625.7	2574.3	2527.7
7.5°	3620.3	3537.9	3489.5	3435.1	3388.4	3011.7	2885.6	2803.1	2681.8	2613.3	2560.4
10°	4157.4	4071.6	3995.4	3911.4	3838.2	3237.5	3053.8	2926.2	2765.8	2677.1	2607.0
12.5°	4756.5	4672.5	4576.0	4468.6	4375.2	3523.8	3268.6	3086.5	2867.0	2748.8	2650.6
15°	5464.7	5316.9	5200.0	5075.6	4966.6	3866.2	3519.1	3267.0	2974.4	2814.1	2683.3
17.5°	6123.1	5967.4	5808.7	5699.7	5573.7	4250.7	3771.3	3450.6	3063.1	2856.1	2689.5
20°	6765.9	6596.3	6459.3	6313.0	6180.7	4649.1	4040.5	3612.5	3120.7	2857.6	2650.6
22.5°	7332.5	7226.6	7074.1	6915.3	6781.5	5047.6	4292.7	3749.4	3142.6	2821.8	2582.2
25°	7976.8	7864.8	7677.9	7544.2	7394.6	5453.7	4540.2	3855.3	3130.1	2755.0	2476.4
27.5°	8664.8	8540.2	8348.8	8208.7	8028.2	5875.6	4767.4	3931.5	3083.3	2645.9	2334.7
30°	9382.3	9268.7	9080.3	8938.7	8756.6	6322.3	5021.1	3982.9	2990.0	2495.1	2169.7
32.5°	10152.8	10057.9	9871.0	9723.2	9528.6	6806.5	5257.7	3998.6	2848.3	2316.0	1995.4
35°	10884.3	10819.0	10661.7	10523.2	10320.8	7264.0	5508.3	3990.8	2680.2	2119.8	1836.6
37.5°	11707.6	11668.8	11590.9	11415.1	11167.6	7885.0	5808.7	3958.0	2474.7	1925.3	1715.3
40°	12585.5	12588.7	12504.6	12384.7	12154.3	8638.4	6166.7	3894.2	2250.6	1754.1	1604.7
42.5°	13514.8	13563.0	13522.5	13436.9	13215.9	9397.8	6594.7	3816.4	2032.8	1587.5	1495.8
45°	14579.3	14638.4	14700.8	14574.6	14359.8	10400.3	7158.1	3715.3	1797.8	1449.1	1421.0
47.5°	15807.4	15900.7	15956.8	15958.3	15743.6	11642.3	8073.3	3654.5	1589.1	1355.7	1385.3
50°	18398.8	18428.4	18560.8	18791.1	18626.1	14517.1	9671.8	3617.2	1447.4	1298.1	1358.7
52.5°	22132.7	22458.1	22686.9	22671.3	22447.2	16342.8	10552.8	3424.1	1363.4	1276.2	1346.3
55°	23653.4	24059.7	24483.1	24595.2	24420.7	17900.8	11385.5	3231.3	1323.0	1291.9	1351.0
57.5°	25680.0	26364.8	26945.4	27189.7	26937.6	19894.6	12481.2	3130.1	1310.6	1333.8	1380.6
60°	28047.3	28894.0	29656.7	30095.7	30095.7	22185.7	13617.4	3088.0	1293.4	1396.2	1430.4
62.5°	29568.0	30811.5	31963.4	32606.2	32587.5	23781.1	14121.8	2944.9	1254.6	1439.7	1498.8
65°	29574.2	31052.9	32520.6	33242.7	33280.2	23584.9	13288.9	2600.8	1183.0	1445.9	1567.4
67.5°	27108.8	28685.5	30396.0	31203.8	31390.6	21711.0	11503.8	2138.5	1066.2	1383.7	1592.2
70°	22895.5	24434.8	26181.1	26974.9	27306.5	18507.9	9265.6	1648.2	916.8	1246.7	1540.9
72.5°	18037.7	19547.6	20763.1	21343.7	21602.0	14146.7	6747.2	1245.1	751.8	1050.6	1402.4
75°	12770.8	13903.8	14549.7	14679.0	14719.4	8527.8	4099.7	926.1	619.5	817.1	1184.5
77.5°	7208.0	7693.6	7640.6	7698.2	7218.9	3291.9	1785.3	663.1	510.6	621.0	918.4
80°	2814.1	2901.3	2725.4	2670.9	2449.8	1224.9	787.5	462.2	407.7	470.1	642.8
82.5°	1240.5	1280.9	1243.6	1252.9	1198.5	631.9	471.6	334.7	311.3	343.9	426.4
85°	683.3	695.8	692.6	712.8	683.3	252.2	224.1	205.4	217.9	233.5	273.9
87.5°	333.1	336.2	325.3	342.4	331.5	127.7	110.5	116.7	127.7	130.8	130.8
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°	2672.5	2672.5	2672.5	2672.5	2672.5	2672.5
2.5°	2524.6	2512.1	2513.7	2510.6	2504.3	2504.3
5°	2502.8	2490.3	2490.3	2487.2	2479.4	2481.0
7.5°	2524.6	2504.3	2496.6	2485.6	2474.7	2474.7
10°	2549.4	2513.7	2491.8	2473.2	2459.2	2459.2
12.5°	2568.1	2512.1	2476.4	2451.4	2437.3	2437.3
15°	2574.3	2501.3	2451.4	2421.8	2409.3	2407.8
17.5°	2554.2	2459.2	2398.5	2364.3	2348.7	2344.0
20°	2491.8	2383.0	2309.7	2270.9	2249.1	2241.4
22.5°	2398.5	2274.0	2188.4	2147.9	2119.8	2115.3
25°	2267.7	2134.0	2049.8	2010.9	1995.4	1990.7
27.5°	2115.3	1990.7	1919.1	1894.2	1880.3	1878.6
30°	1970.5	1864.6	1811.7	1793.1	1775.9	1772.8
32.5°	1835.0	1768.2	1747.9	1721.5	1681.0	1676.2
35°	1738.6	1732.3	1718.3	1659.2	1609.4	1595.4
37.5°	1679.5	1737.0	1665.4	1548.6	1512.9	1509.8
40°	1645.2	1688.7	1565.8	1525.4	1528.4	1525.4
42.5°	1567.4	1612.4	1568.9	1550.3	1562.7	1565.8
45°	1489.5	1539.4	1592.2	1579.8	1609.4	1609.4
47.5°	1445.9	1520.7	1590.7	1590.7	1634.3	1649.9
50°	1396.2	1505.0	1565.8	1587.5	1621.9	1609.4
52.5°	1393.0	1478.6	1529.9	1568.9	1584.5	1570.5
55°	1397.7	1456.9	1494.2	1537.9	1556.5	1558.0
57.5°	1403.9	1444.4	1469.3	1489.5	1545.6	1545.6
60°	1419.5	1433.5	1447.4	1458.4	1531.6	1533.1
62.5°	1444.4	1422.5	1419.5	1430.4	1523.7	1517.5
65°	1483.3	1407.0	1383.7	1394.5	1516.0	1497.3
67.5°	1536.1	1383.7	1338.5	1346.3	1509.8	1469.3
70°	1584.5	1346.3	1282.4	1274.7	1450.6	1379.1
72.5°	1589.1	1302.8	1204.7	1181.3	1260.8	1192.2
75°	1511.3	1273.2	1119.2	1050.6	1041.2	1032.0
77.5°	1361.9	1256.1	1019.5	912.1	893.4	899.6
80°	1139.3	1192.2	899.6	772.0	873.2	862.3
82.5°	851.3	1052.1	764.3	683.3	681.8	602.3
85°	473.2	820.2	622.6	512.1	356.4	345.6
87.5°	132.3	456.0	435.8	289.5	197.6	205.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)