

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: P192205

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192205
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 35439 lumens
Efficiency: N/A
Efficacy: 120.1 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): 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

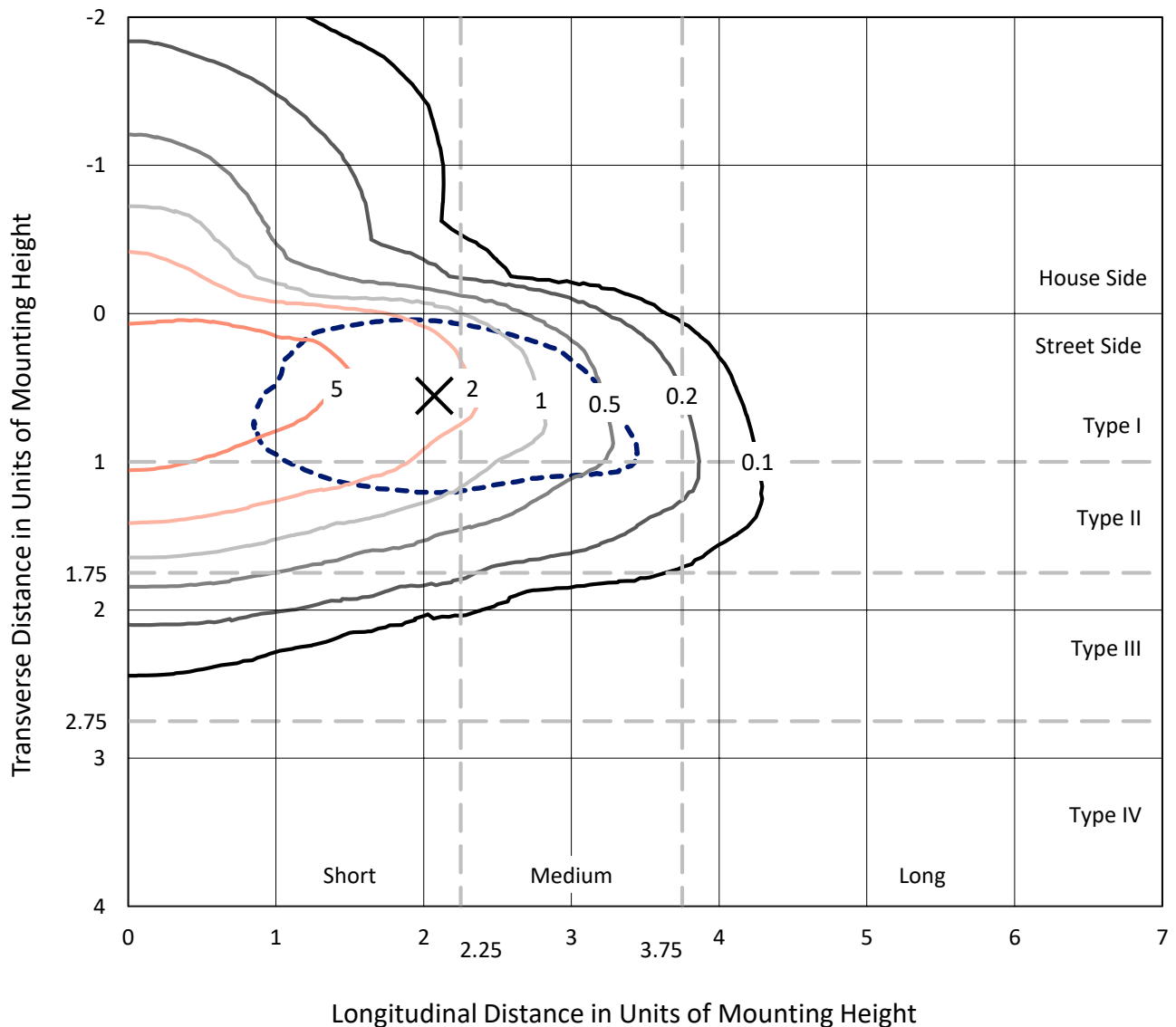


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Iso-Footcandle Lines of Horizontal Illumination

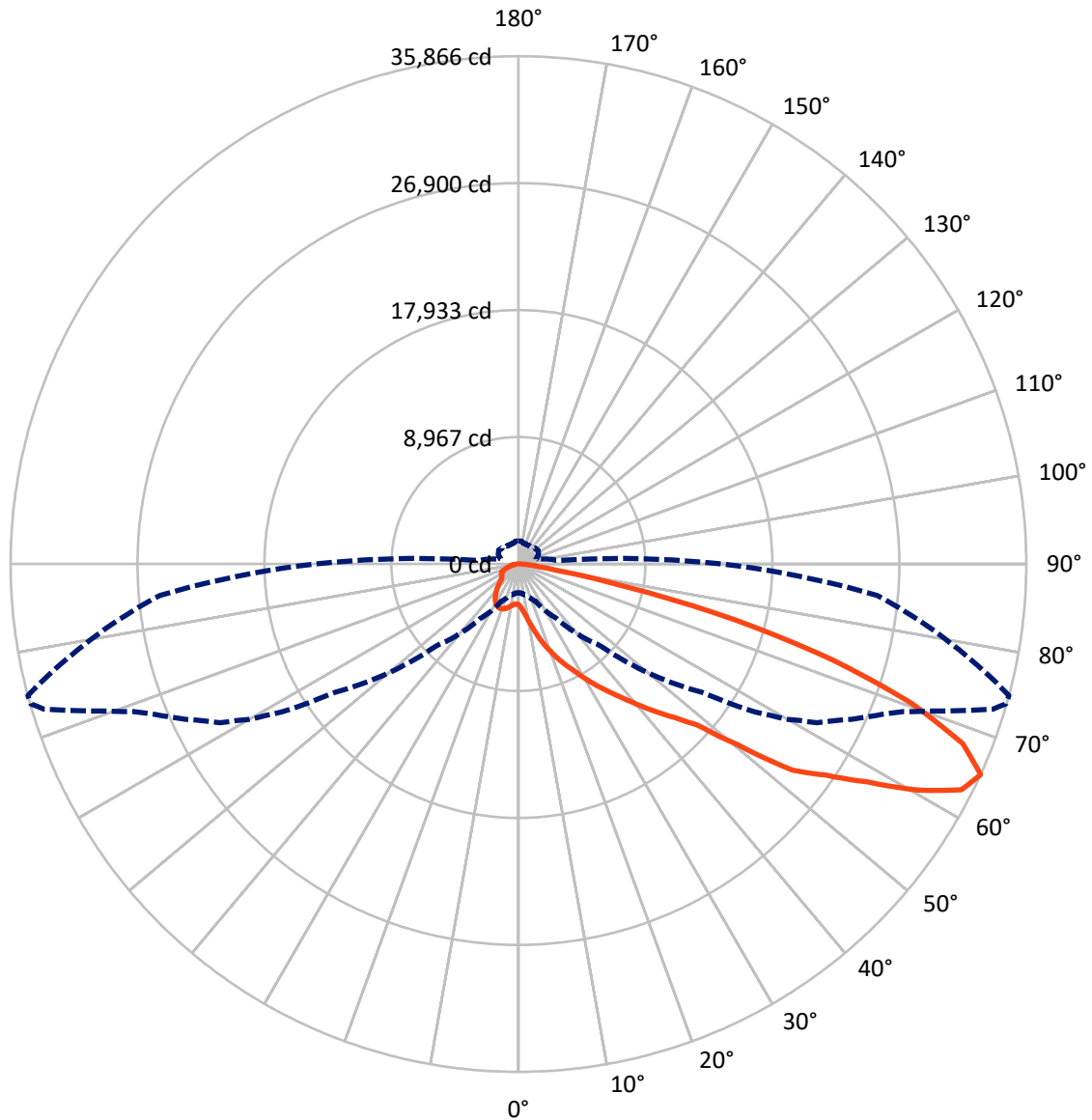
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	5463.9	0.0	5463.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	29975.1	0.0	29975.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	35439.0	0.0	35439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.0	1.0
10°-20°	1390.9	3.9
20°-30°	2853.7	8.1
30°-40°	4801.3	13.5
40°-50°	6634.0	18.7
50°-60°	8281.2	23.4
60°-70°	7452.2	21.0
70°-80°	3123.9	8.8
80°-90°	545.8	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°	35439.0	100.0
0°-180°	35439.0	100.0

Coefficient of Utilization



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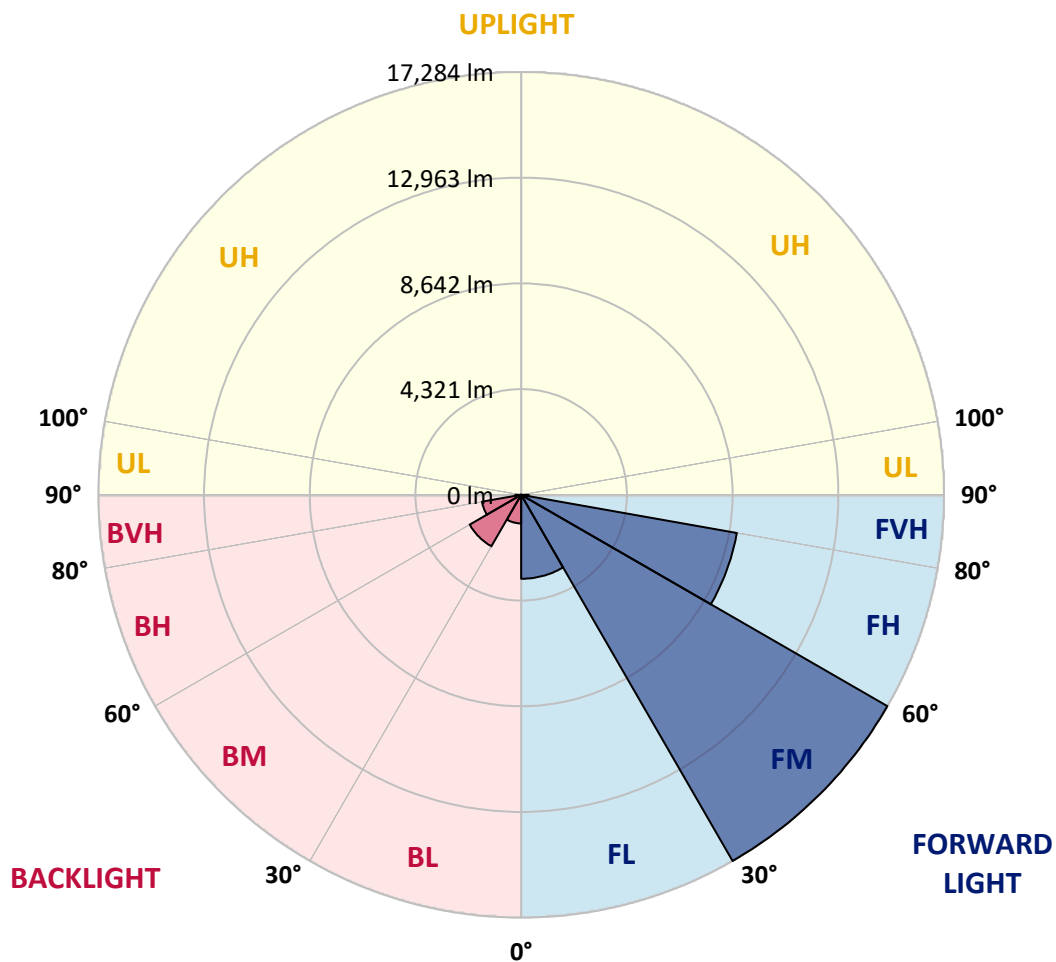
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3432.2	9.7			
FM	(30°-60°)	17284.5	48.8			
FH	(60°-80°)	8951.8	25.3			G4/12000
FVH	(80°-90°)	306.8	0.9			G3/500
BL	(0°-30°)	1168.5	3.3	B3/2500		
BM	(30°-60°)	2432.0	6.9	B2/2500		
BH	(60°-80°)	1624.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	239.0	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°	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1
2.5°	3656.7	3616.5	3626.5	3559.4	3477.3	3369.9	3250.8	3249.1	3250.8	3239.1	3195.4
5°	5070.8	5022.1	5003.7	4852.7	4631.3	4316.0	3973.8	3936.9	3921.8	3883.2	3794.3
7.5°	6102.4	6075.5	6047.0	5933.0	5731.7	5379.4	4919.8	4841.0	4765.5	4747.0	4646.4
10°	6768.3	6761.6	6701.2	6671.0	6545.2	6239.9	5792.1	5716.6	5634.4	5605.9	5500.2
12.5°	7295.0	7293.3	7264.8	7273.2	7164.2	6942.8	6557.0	6488.2	6427.8	6340.6	6265.1
15°	7659.0	7660.7	7702.6	7749.6	7732.8	7583.5	7221.2	7191.0	7139.0	7078.6	6989.7
17.5°	7957.6	7966.0	8009.6	8095.1	8187.4	8175.6	7888.8	7863.7	7818.4	7736.2	7689.2
20°	8631.9	8663.8	8579.9	8579.9	8590.0	8635.3	8497.7	8477.6	8413.8	8370.2	8333.3
22.5°	9770.9	9807.8	9618.2	9425.3	9235.8	9098.2	8960.7	8985.8	8942.2	8912.0	8890.2
25°	11250.3	11278.8	10971.9	10646.5	10260.7	9757.4	9416.9	9401.8	9378.3	9359.9	9349.8
27.5°	12642.6	12654.3	12364.1	11887.7	11439.9	10716.9	9879.9	9861.4	9832.9	9797.7	9767.5
30°	13833.5	13830.2	13531.6	13077.0	12597.3	11797.2	10582.7	10525.7	10441.8	10346.2	10272.4
32.5°	14865.1	14860.1	14533.0	14061.6	13558.4	12867.3	11545.5	11428.1	11297.3	11111.1	10998.7
35°	15677.0	15673.6	15365.0	14873.5	14296.5	13875.5	12649.3	12505.0	12339.0	12089.0	11916.3
37.5°	15983.9	15983.9	15811.2	15475.7	14965.8	14677.3	13875.5	13701.0	13523.2	13239.7	13045.1
40°	15804.5	15807.8	15844.7	15782.7	15534.4	15313.0	15019.4	14915.4	14762.8	14507.8	14304.9
42.5°	15202.3	15220.7	15465.6	15765.9	15890.0	15854.8	16034.3	15987.3	15880.0	15683.7	15522.7
45°	14439.1	14496.1	14764.5	15331.4	15989.0	16322.8	16884.7	16889.7	16869.6	16763.9	16639.8
47.5°	13390.7	13471.2	13825.1	14591.7	15757.5	16777.4	17748.6	17793.9	17835.8	17767.0	17710.0
50°	11998.4	12094.1	12624.1	13640.6	15286.2	17248.7	19380.7	19585.3	19776.6	19753.1	19791.6
52.5°	10507.2	10619.6	11268.8	12401.0	14476.0	17357.7	20424.0	20757.8	21091.6	21365.1	21655.2
55°	9162.0	9101.6	9750.7	10943.4	13144.1	16866.3	21361.7	21764.3	22136.7	22472.1	22817.7
57.5°	7338.6	7437.6	8088.4	9267.6	11381.2	15479.1	22007.5	22596.3	23131.4	23686.6	24176.4
60°	5364.3	5463.3	6169.5	7367.1	9467.2	13375.6	21514.3	22406.7	23263.9	24114.3	24778.6
62.5°	3239.1	3312.9	3935.2	5075.8	7300.0	10881.3	19316.9	20487.8	21749.2	22765.7	23783.9
65°	2016.2	2058.2	2288.0	2915.3	4688.3	8123.7	15782.7	17059.2	18417.9	19707.8	20766.2
67.5°	1650.6	1665.7	1707.6	1841.8	2574.8	5297.2	11746.8	12877.4	14103.6	15351.6	16529.1
70°	1484.5	1474.4	1474.4	1482.8	1650.6	2848.2	7690.9	8427.3	9448.8	10534.1	11611.0
72.5°	1340.2	1330.2	1311.7	1286.6	1347.0	1737.8	3975.4	4530.7	5267.0	6231.5	7263.1
75°	1204.4	1191.0	1169.1	1137.3	1179.2	1311.7	1908.9	2142.0	2501.0	3014.3	3589.6
77.5°	1063.5	1046.7	1026.6	1003.1	1056.8	1019.9	1118.8	1202.7	1340.2	1504.6	1721.0
80°	904.1	889.0	882.3	870.6	934.3	776.6	790.1	842.1	922.6	1011.5	1112.1
82.5°	707.9	707.9	734.7	739.7	810.2	558.6	590.4	635.7	677.7	724.6	771.6
85°	466.3	469.7	560.3	595.5	639.1	375.7	442.8	457.9	491.5	518.3	538.4
87.5°	145.9	157.7	342.2	379.1	367.4	213.0	271.7	278.4	301.9	320.4	337.2
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1
2.5°	3195.4	3175.3	3156.9	3155.2	3141.8	3123.3	3130.0	3101.5	3103.2	3088.1	3071.3
5°	3757.4	3744.0	3676.9	3658.4	3608.1	3576.2	3571.2	3504.1	3495.7	3457.1	3415.2
7.5°	4565.9	4522.3	4428.3	4383.0	4297.5	4233.8	4203.6	4114.7	4071.1	3970.4	3925.1
10°	5413.0	5357.6	5241.9	5178.1	5095.9	4993.6	4938.3	4809.1	4758.8	4666.5	4555.8
12.5°	6198.0	6142.6	6023.5	5974.9	5865.9	5756.8	5696.5	5550.5	5485.1	5337.5	5250.3
15°	6924.3	6869.0	6765.0	6714.6	6605.6	6516.7	6436.2	6291.9	6214.8	6077.2	5963.2
17.5°	7628.8	7570.1	7479.5	7434.2	7328.6	7238.0	7150.8	7014.9	6936.1	6798.5	6696.2
20°	8283.0	8239.4	8174.0	8113.6	8007.9	7925.7	7821.7	7704.3	7590.2	7489.6	7392.3
22.5°	8853.3	8836.5	8766.1	8739.3	8648.7	8578.2	8487.6	8371.9	8289.7	8162.2	8071.7
25°	9344.8	9339.8	9306.2	9297.8	9234.1	9167.0	9146.9	9051.3	8975.8	8863.4	8769.4
27.5°	9767.5	9772.5	9764.1	9787.6	9770.9	9740.7	9742.3	9710.5	9666.9	9572.9	9490.7
30°	10237.2	10210.3	10225.4	10259.0	10269.0	10272.4	10327.8	10346.2	10342.9	10280.8	10240.5
32.5°	10901.4	10837.7	10779.0	10773.9	10807.5	10820.9	10914.8	10963.5	11005.4	11020.5	11027.2
35°	11748.5	11621.0	11498.6	11433.2	11376.1	11391.2	11458.3	11537.2	11629.4	11693.2	11768.6
37.5°	12815.3	12659.3	12443.0	12288.6	12250.1	12166.2	12209.8	12271.9	12362.4	12461.4	12592.2
40°	14108.6	13872.1	13628.9	13424.2	13313.5	13159.2	13157.5	13145.8	13201.1	13293.4	13477.9
42.5°	15353.2	15143.6	14885.3	14670.5	14526.3	14320.0	14278.0	14169.0	14194.2	14274.7	14454.2
45°	16519.0	16346.3	16188.6	15940.3	15817.9	15594.8	15524.3	15395.2	15323.1	15360.0	15539.4
47.5°	17647.9	17537.2	17372.8	17211.8	17117.9	16918.3	16827.7	16735.4	16643.2	16639.8	16827.7
50°	19848.7	19790.0	19595.4	19427.7	19472.9	19228.0	19243.1	18994.9	19107.3	19120.7	19514.9
52.5°	21916.9	22121.6	22265.8	22441.9	22556.0	22577.8	22653.3	22765.7	22901.5	23169.9	23535.6
55°	23101.2	23357.8	23507.1	23641.3	23862.7	23909.7	24035.5	24184.8	24303.9	24605.8	24916.1
57.5°	24508.5	24984.9	25216.4	25429.4	25728.0	25842.0	26051.7	26214.4	26368.7	26726.0	27101.8
60°	25375.7	25956.1	26427.4	26764.6	27138.7	27407.0	27724.1	27979.0	28341.4	28769.1	29329.3
62.5°	24686.3	25538.4	26164.1	26742.8	27251.0	27764.3	28218.9	28695.3	29245.5	29893.0	30761.8
65°	21940.4	22807.6	23879.5	24480.0	25152.6	25944.4	26635.4	27407.0	28156.8	29099.5	30384.4
67.5°	17663.0	18671.1	19875.5	20481.1	21254.3	22138.3	22913.3	23856.0	24731.6	25873.9	27462.4
70°	12731.5	14034.8	15048.0	15680.3	16582.8	17493.6	18241.7	19338.8	20063.4	21234.2	22876.4
72.5°	8061.6	9089.8	10331.1	11127.9	11929.7	12852.2	13617.1	14563.2	15239.2	16306.0	17793.9
75°	4334.4	5092.6	6182.9	6939.4	7798.2	8586.6	9482.3	10116.4	10616.3	11460.0	12667.7
77.5°	2031.3	2492.6	3044.5	3626.5	4208.6	4815.8	5406.3	5919.5	6134.3	6617.3	7330.2
80°	1232.9	1382.2	1543.2	1722.7	1965.9	2162.2	2422.2	2610.0	2623.5	2776.1	2994.2
82.5°	823.6	879.0	927.6	972.9	1035.0	1083.6	1139.0	1204.4	1231.2	1266.4	1336.9
85°	561.9	588.8	598.8	627.3	620.6	637.4	659.2	681.0	692.8	691.1	723.0
87.5°	345.5	359.0	365.7	372.4	367.4	360.6	370.7	382.4	385.8	375.7	379.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1
2.5°	3074.7	3059.6	3044.5	3034.4	3031.1	2942.2	2903.6	2878.4	2824.7	2781.1	2745.9
5°	3391.7	3359.8	3334.7	3304.5	3287.7	3062.9	2980.7	2923.7	2829.8	2774.4	2724.1
7.5°	3901.6	3812.7	3760.7	3702.0	3651.7	3245.8	3109.9	3021.0	2890.2	2816.4	2759.3
10°	4480.3	4388.1	4305.9	4215.3	4136.5	3489.0	3291.1	3153.5	2980.7	2885.1	2809.6
12.5°	5126.1	5035.6	4931.6	4815.8	4715.2	3797.6	3522.5	3326.3	3089.8	2962.3	2856.6
15°	5889.4	5730.0	5604.2	5470.0	5352.6	4166.7	3792.6	3520.9	3205.5	3032.7	2891.8
17.5°	6598.9	6431.2	6260.1	6142.6	6006.8	4581.0	4064.3	3718.8	3301.1	3078.0	2898.5
20°	7291.7	7108.8	6961.2	6803.5	6661.0	5010.4	4354.5	3893.2	3363.2	3079.7	2856.6
22.5°	7902.2	7788.2	7623.8	7452.7	7308.4	5439.8	4626.3	4040.9	3386.7	3041.1	2782.8
25°	8596.7	8475.9	8274.6	8130.4	7969.3	5877.6	4893.0	4154.9	3373.3	2969.0	2668.7
27.5°	9338.1	9203.9	8997.6	8846.6	8652.0	6332.2	5137.9	4237.1	3322.9	2851.6	2516.1
30°	10111.4	9988.9	9786.0	9633.3	9437.1	6813.6	5411.3	4292.5	3222.3	2688.9	2338.3
32.5°	10941.7	10839.4	10638.1	10478.7	10269.0	7335.3	5666.3	4309.2	3069.6	2496.0	2150.4
35°	11730.1	11659.6	11490.2	11340.9	11122.8	7828.4	5936.3	4300.9	2888.5	2284.6	1979.3
37.5°	12617.4	12575.5	12491.6	12302.1	12035.3	8497.7	6260.1	4265.6	2667.1	2074.9	1848.5
40°	13563.5	13566.8	13476.2	13347.1	13098.8	9309.6	6645.9	4196.9	2425.5	1890.4	1729.4
42.5°	14564.9	14616.9	14573.3	14481.0	14242.8	10128.1	7107.1	4113.0	2190.7	1710.9	1612.0
45°	15712.2	15776.0	15843.0	15707.2	15475.7	11208.4	7714.4	4004.0	1937.4	1561.7	1531.5
47.5°	17035.7	17136.3	17196.7	17198.4	16966.9	12547.0	8700.7	3938.5	1712.6	1461.0	1492.9
50°	19828.6	19860.4	20003.0	20251.3	20073.5	15645.1	10423.4	3898.3	1560.0	1399.0	1464.4
52.5°	23852.6	24203.2	24449.8	24433.0	24191.5	17612.7	11372.8	3690.3	1469.4	1375.5	1451.0
55°	25491.5	25929.3	26385.5	26506.3	26318.4	19291.8	12270.2	3482.3	1425.8	1392.2	1456.0
57.5°	27675.4	28413.5	29039.2	29302.5	29030.8	21440.5	13451.1	3373.3	1412.4	1437.5	1487.9
60°	30226.8	31139.3	31961.2	32434.2	32434.2	23909.7	14675.6	3328.0	1393.9	1504.6	1541.5
62.5°	31865.6	33205.8	34447.1	35139.9	35119.7	25629.0	15219.1	3173.6	1352.0	1551.6	1615.3
65°	31872.3	33465.8	35047.6	35825.9	35866.2	25417.6	14321.6	2802.9	1274.8	1558.3	1689.1
67.5°	29215.3	30914.5	32758.0	33628.5	33829.8	23398.1	12397.7	2304.7	1149.0	1491.2	1716.0
70°	24674.6	26333.5	28215.6	29071.0	29428.3	19946.0	9985.6	1776.4	988.0	1343.6	1660.6
72.5°	19439.4	21066.5	22376.5	23002.2	23280.6	15245.9	7271.5	1341.9	810.2	1132.2	1511.3
75°	13763.1	14984.2	15680.3	15819.6	15863.2	9190.5	4418.3	998.1	667.6	880.6	1276.5
77.5°	7768.0	8291.4	8234.4	8296.4	7779.8	3547.7	1924.0	714.6	550.2	669.3	989.7
80°	3032.7	3126.7	2937.1	2878.4	2640.2	1320.1	848.8	498.2	439.5	506.6	692.8
82.5°	1336.9	1380.5	1340.2	1350.3	1291.6	681.0	508.3	360.6	335.5	370.7	459.6
85°	736.4	749.8	746.4	768.2	736.4	271.7	241.5	221.4	234.8	251.6	295.2
87.5°	359.0	362.3	350.6	369.0	357.3	137.5	119.1	125.8	137.5	140.9	140.9
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):

	135°	145°	155°	165°	175°	180°
0°	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1
2.5°	2720.7	2707.3	2709.0	2705.6	2698.9	2698.9
5°	2697.3	2683.8	2683.8	2680.5	2672.1	2673.8
7.5°	2720.7	2698.9	2690.6	2678.8	2667.1	2667.1
10°	2747.6	2709.0	2685.5	2665.4	2650.3	2650.3
12.5°	2767.7	2707.3	2668.7	2641.9	2626.8	2626.8
15°	2774.4	2695.6	2641.9	2610.0	2596.6	2594.9
17.5°	2752.6	2650.3	2584.9	2548.0	2531.2	2526.2
20°	2685.5	2568.1	2489.3	2447.3	2423.8	2415.5
22.5°	2584.9	2450.7	2358.4	2314.8	2284.6	2279.6
25°	2444.0	2299.7	2209.1	2167.2	2150.4	2145.4
27.5°	2279.6	2145.4	2068.2	2041.4	2026.3	2024.6
30°	2123.6	2009.5	1952.5	1932.4	1913.9	1910.6
32.5°	1977.7	1905.5	1883.7	1855.2	1811.6	1806.6
35°	1873.7	1866.9	1851.9	1788.1	1734.4	1719.3
37.5°	1809.9	1872.0	1794.8	1669.0	1630.4	1627.1
40°	1773.0	1820.0	1687.5	1643.9	1647.2	1643.9
42.5°	1689.1	1737.8	1690.8	1670.7	1684.1	1687.5
45°	1605.3	1658.9	1716.0	1702.6	1734.4	1734.4
47.5°	1558.3	1638.8	1714.3	1714.3	1761.3	1778.0
50°	1504.6	1622.0	1687.5	1710.9	1747.9	1734.4
52.5°	1501.3	1593.5	1648.9	1690.8	1707.6	1692.5
55°	1506.3	1570.0	1610.3	1657.3	1677.4	1679.1
57.5°	1513.0	1556.6	1583.5	1605.3	1665.7	1665.7
60°	1529.8	1544.9	1560.0	1571.7	1650.6	1652.2
62.5°	1556.6	1533.1	1529.8	1541.5	1642.2	1635.5
65°	1598.6	1516.4	1491.2	1503.0	1633.8	1613.7
67.5°	1655.6	1491.2	1442.6	1451.0	1627.1	1583.5
70°	1707.6	1451.0	1382.2	1373.8	1563.3	1486.2
72.5°	1712.6	1404.0	1298.3	1273.1	1358.7	1284.9
75°	1628.8	1372.1	1206.1	1132.2	1122.2	1112.1
77.5°	1467.7	1353.7	1098.7	983.0	962.8	969.5
80°	1227.9	1284.9	969.5	832.0	941.0	929.3
82.5°	917.5	1133.9	823.6	736.4	734.7	649.2
85°	509.9	884.0	671.0	551.9	384.1	372.4
87.5°	142.6	491.5	469.7	312.0	213.0	221.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)