

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: P269583

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269583
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 34885.8 lumens
Efficiency: N/A
Efficacy: 104.4 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): 334
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

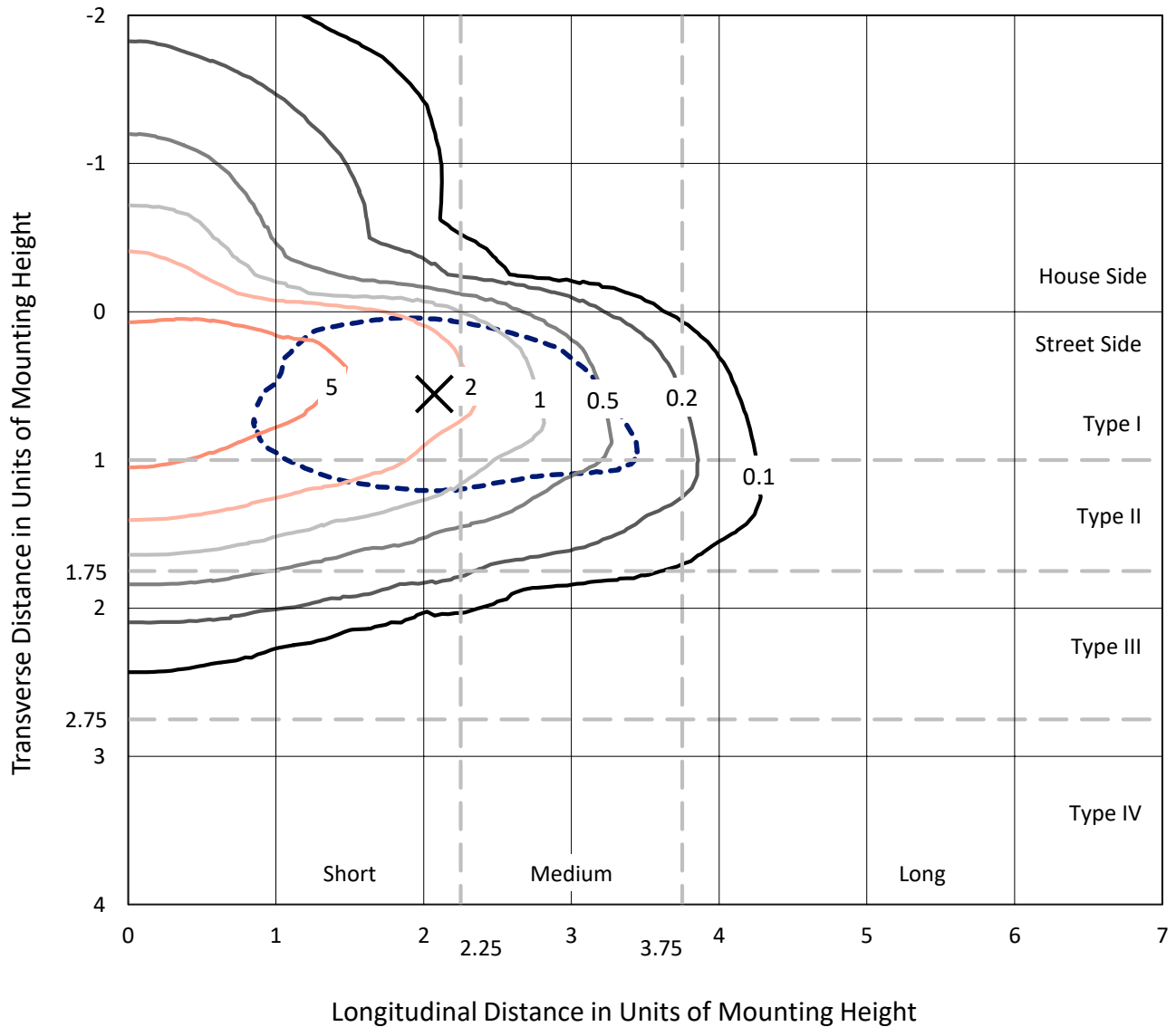


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

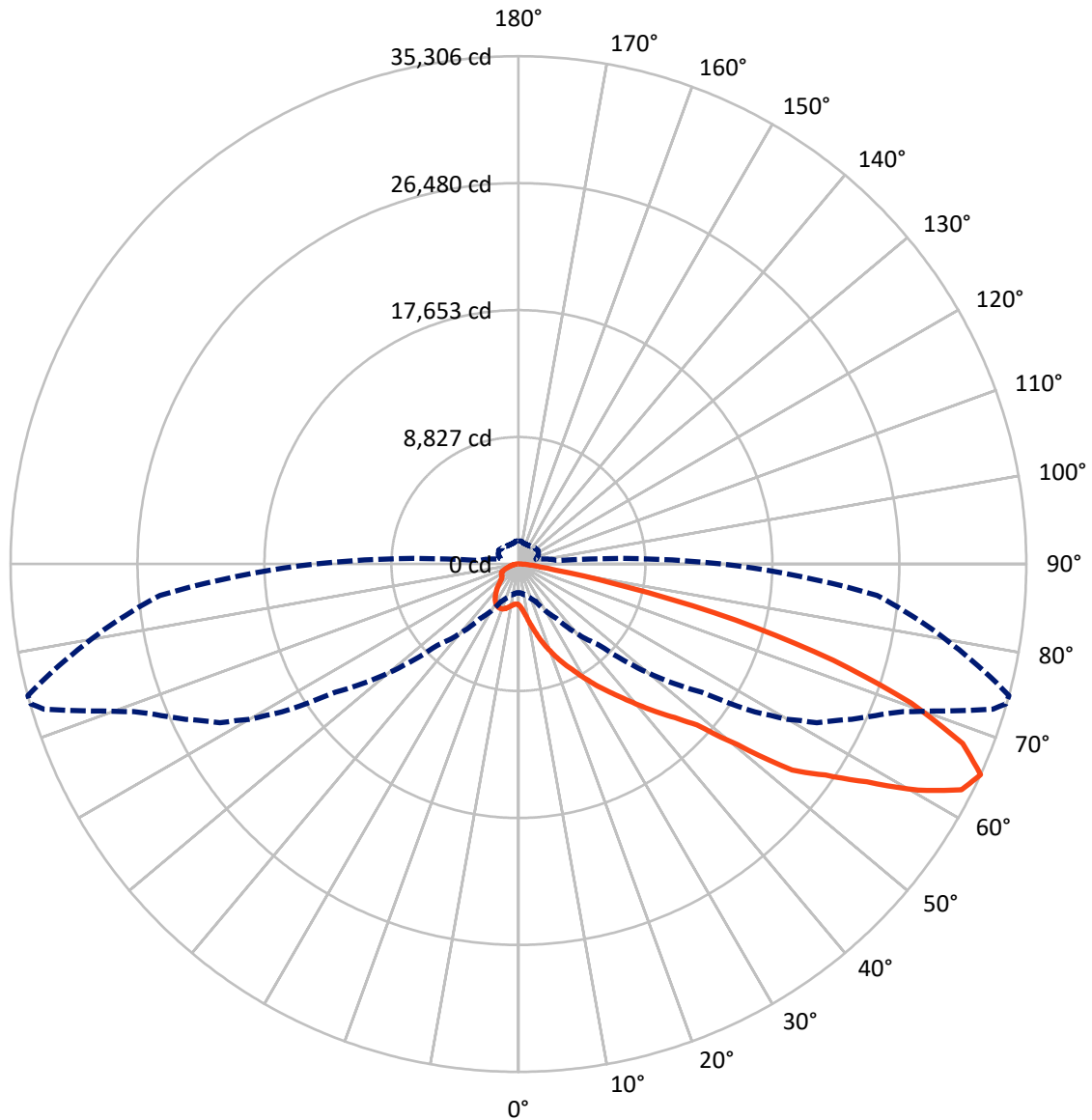


Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Full Cutoff

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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	5378.5	0.0	5378.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	29507.2	0.0	29507.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	34885.8	0.0	34885.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.4	1.0
10°-20°	1369.2	3.9
20°-30°	2809.2	8.1
30°-40°	4726.3	13.5
40°-50°	6530.4	18.7
50°-60°	8151.9	23.4
60°-70°	7335.9	21.0
70°-80°	3075.1	8.8
80°-90°	537.2	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°	34885.8	100.0
0°-180°	34885.8	100.0



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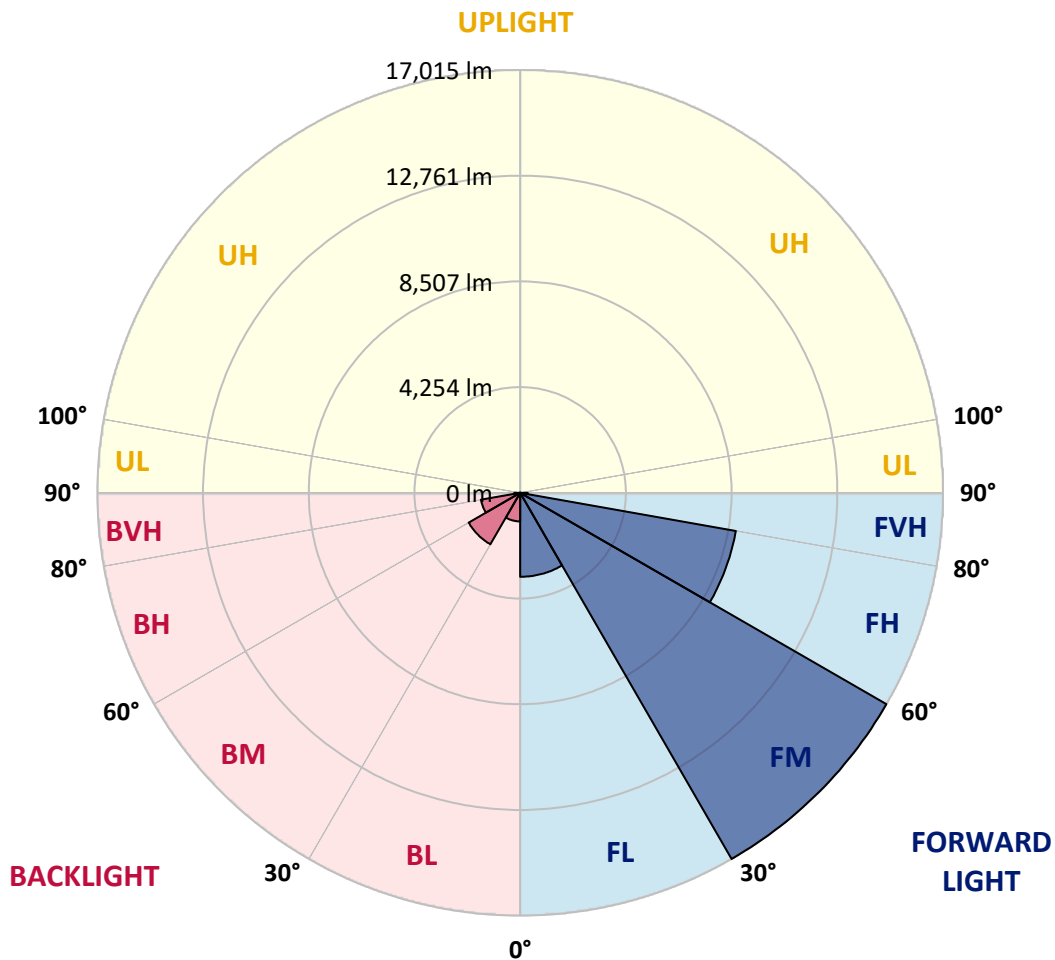
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3378.6	9.7			
FM (30°-60°)	17014.6	48.8			
FH (60°-80°)	8812.0	25.3			G4/12000
FVH (80°-90°)	302.0	0.9			G3/500
BL (0°-30°)	1150.3	3.3	B3/2500		
BM (30°-60°)	2394.1	6.9	B2/2500		
BH (60°-80°)	1599.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	235.3	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°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	3599.7	3560.1	3570.0	3503.8	3423.0	3317.4	3200.0	3198.4	3200.0	3188.5	3145.5
5°	4991.6	4943.7	4925.5	4776.9	4559.0	4248.5	3911.7	3875.4	3860.6	3822.6	3735.1
7.5°	6007.1	5980.6	5952.6	5840.3	5642.3	5295.5	4843.0	4765.4	4691.0	4673.0	4573.9
10°	6662.6	6656.0	6596.7	6566.9	6443.1	6142.5	5701.6	5627.3	5546.4	5518.4	5414.4
12.5°	7181.1	7179.4	7151.3	7159.8	7052.4	6834.3	6454.6	6386.9	6327.4	6241.7	6167.4
15°	7539.5	7541.1	7582.4	7628.6	7612.1	7465.2	7108.5	7078.7	7027.6	6968.2	6880.6
17.5°	7833.4	7841.7	7884.6	7968.8	8059.6	8048.0	7765.7	7741.0	7696.3	7615.4	7569.2
20°	8497.2	8528.5	8446.0	8446.0	8455.8	8500.4	8365.0	8345.3	8282.6	8239.6	8203.2
22.5°	9618.3	9654.7	9468.0	9278.1	9091.6	8956.2	8820.7	8845.6	8802.6	8772.8	8751.5
25°	11074.8	11102.8	10800.6	10480.3	10100.5	9605.0	9269.9	9255.1	9231.9	9213.7	9203.9
27.5°	12445.2	12456.7	12171.1	11702.2	11261.3	10549.6	9725.7	9707.5	9679.4	9644.7	9615.0
30°	13617.5	13614.3	13320.3	12872.9	12400.7	11613.0	10417.6	10361.4	10278.9	10184.8	10112.0
32.5°	14633.1	14628.1	14306.1	13842.2	13346.7	12666.6	11365.4	11249.7	11120.9	10937.7	10827.0
35°	15432.3	15429.0	15125.1	14641.4	14073.2	13658.9	12451.9	12309.8	12146.3	11900.2	11730.2
37.5°	15734.4	15734.4	15564.4	15234.0	14732.2	14448.1	13658.9	13487.2	13312.2	13033.0	12841.5
40°	15557.7	15561.1	15597.5	15536.2	15291.8	15074.0	14784.9	14682.5	14532.3	14281.3	14081.7
42.5°	14965.0	14983.1	15224.3	15519.7	15641.9	15607.3	15783.9	15737.8	15632.0	15438.9	15280.3
45°	14213.6	14269.8	14533.9	15092.2	15739.5	16068.0	16621.1	16626.1	16606.2	16502.3	16380.1
47.5°	13181.6	13260.9	13609.3	14363.9	15511.6	16515.5	17471.6	17516.1	17557.4	17489.7	17433.5
50°	11811.2	11905.2	12427.1	13427.7	15047.5	16979.5	19078.2	19279.7	19467.8	19444.7	19482.7
52.5°	10343.3	10453.8	11092.9	12207.4	14250.1	17086.8	20105.1	20433.7	20762.3	21031.6	21317.1
55°	9019.0	8959.4	9598.5	10772.6	12938.9	16603.0	21028.2	21424.5	21791.1	22121.3	22461.5
57.5°	7224.1	7321.5	7962.1	9122.9	11203.5	15237.4	21664.0	22243.6	22770.2	23316.9	23798.9
60°	5280.5	5378.1	6073.3	7252.1	9319.5	13166.7	21178.5	22057.0	22900.8	23737.9	24391.8
62.5°	3188.5	3261.1	3873.8	4996.6	7186.1	10711.4	19015.4	20167.9	21409.7	22410.2	23412.5
65°	1984.7	2026.0	2252.3	2869.8	4615.1	7996.8	15536.2	16792.8	18130.3	19400.2	20442.0
67.5°	1624.9	1639.6	1681.0	1813.0	2534.6	5214.5	11563.4	12676.4	13883.5	15111.9	16271.1
70°	1461.4	1451.4	1451.4	1459.7	1624.9	2803.8	7570.8	8295.7	9301.3	10369.7	11429.8
72.5°	1319.3	1309.4	1291.3	1266.5	1325.9	1710.6	3913.3	4459.9	5184.7	6134.3	7149.8
75°	1185.6	1172.4	1150.9	1119.5	1160.8	1291.3	1879.1	2108.6	2462.0	2967.2	3533.7
77.5°	1046.9	1030.4	1010.6	987.4	1040.2	1003.9	1101.3	1184.0	1319.3	1481.1	1694.2
80°	890.0	875.2	868.5	857.1	919.8	764.5	777.8	828.9	908.1	995.7	1094.8
82.5°	696.8	696.8	723.2	728.2	797.5	549.9	581.3	625.8	667.1	713.3	759.5
85°	459.0	462.4	551.5	586.1	629.2	369.9	435.9	450.8	483.7	510.2	530.0
87.5°	143.6	155.1	336.9	373.2	361.6	209.8	267.4	274.2	297.2	315.3	332.0
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°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	3145.5	3125.7	3107.5	3105.9	3092.8	3074.5	3081.1	3053.1	3054.7	3039.9	3023.3
5°	3698.7	3685.6	3619.5	3601.2	3551.8	3520.4	3515.4	3449.4	3441.1	3403.1	3361.8
7.5°	4494.6	4451.7	4359.3	4314.6	4230.4	4167.6	4138.0	4050.5	4007.5	3908.4	3863.8
10°	5328.4	5273.9	5160.0	5097.3	5016.3	4915.6	4861.2	4734.1	4684.5	4593.8	4484.7
12.5°	6101.3	6046.8	5929.5	5881.7	5774.2	5667.0	5607.5	5463.9	5399.5	5254.1	5168.3
15°	6816.2	6761.7	6659.3	6609.8	6502.6	6414.9	6335.7	6193.8	6117.7	5982.4	5870.1
17.5°	7509.7	7451.9	7362.8	7318.2	7214.2	7124.9	7039.1	6905.5	6827.7	6692.4	6591.7
20°	8153.6	8110.7	8046.4	7986.9	7882.8	7802.0	7699.6	7584.0	7471.7	7372.7	7276.9
22.5°	8715.1	8698.6	8629.3	8602.8	8513.6	8444.2	8355.1	8241.2	8160.4	8034.8	7945.7
25°	9199.0	9194.0	9160.9	9152.7	9089.9	9024.0	9004.2	8910.0	8835.6	8725.0	8632.5
27.5°	9615.0	9619.9	9611.8	9634.9	9618.3	9588.6	9590.2	9558.9	9515.9	9423.5	9342.6
30°	10077.4	10051.0	10065.8	10098.8	10108.7	10112.0	10166.6	10184.8	10181.4	10120.2	10080.7
32.5°	10731.2	10668.5	10610.7	10605.7	10638.7	10652.0	10744.4	10792.3	10833.6	10848.6	10855.1
35°	11565.0	11439.6	11319.1	11254.7	11198.5	11213.5	11279.5	11357.0	11447.9	11510.6	11584.9
37.5°	12615.3	12461.6	12248.7	12096.8	12058.8	11976.3	12019.2	12080.2	12169.5	12266.9	12395.7
40°	13888.3	13655.6	13416.1	13214.6	13105.7	12953.7	12952.1	12940.5	12995.2	13085.9	13267.4
42.5°	15113.5	14907.2	14653.0	14441.5	14299.5	14096.5	14055.2	13947.9	13972.5	14051.8	14228.6
45°	16261.2	16091.1	15935.9	15691.6	15571.0	15351.3	15282.0	15154.9	15083.9	15120.2	15296.9
47.5°	17372.4	17263.4	17101.7	16943.1	16850.6	16654.1	16564.9	16474.1	16383.4	16380.1	16564.9
50°	19538.9	19481.1	19289.6	19124.3	19168.9	18927.8	18942.7	18698.4	18809.0	18822.1	19210.3
52.5°	21574.9	21776.3	21918.3	22091.6	22203.9	22225.3	22299.6	22410.2	22544.0	22808.2	23168.1
55°	22740.6	22993.1	23140.1	23272.2	23490.1	23536.4	23660.3	23807.2	23924.5	24221.7	24527.1
57.5°	24125.9	24594.9	24822.8	25032.3	25326.4	25438.7	25645.1	25805.3	25957.2	26308.8	26678.8
60°	24979.6	25550.9	26014.8	26346.7	26715.1	26979.2	27291.2	27542.3	27898.9	28320.0	28871.4
62.5°	24300.9	25139.7	25755.7	26325.3	26825.6	27330.9	27778.4	28247.4	28788.9	29426.3	30281.7
65°	21597.9	22451.6	23506.7	24097.8	24760.0	25539.4	26219.6	26979.2	27717.4	28645.3	29910.1
67.5°	17387.4	18379.7	19565.3	20161.3	20922.6	21792.7	22555.6	23483.6	24345.5	25470.1	27033.8
70°	12532.8	13815.8	14813.1	15435.5	16323.9	17220.5	17956.9	19036.8	19750.1	20902.8	22519.3
72.5°	7935.7	8947.9	10169.8	10954.1	11743.5	12651.5	13404.6	14335.8	15001.2	16051.5	17516.1
75°	4266.7	5013.1	6086.3	6831.2	7676.5	8452.6	9334.3	9958.5	10450.5	11281.2	12470.0
77.5°	1999.6	2453.7	2996.9	3570.0	4143.0	4740.6	5321.9	5827.1	6038.4	6514.1	7215.8
80°	1213.6	1360.7	1519.2	1695.8	1935.2	2128.4	2384.3	2569.3	2582.4	2732.7	2947.3
82.5°	810.7	865.2	913.1	957.8	1018.8	1066.6	1121.2	1185.6	1212.1	1246.7	1315.9
85°	553.1	579.5	589.5	617.6	610.9	627.5	648.9	670.3	682.0	680.2	711.6
87.5°	340.2	353.4	360.0	366.6	361.6	355.0	364.9	376.5	379.8	369.9	373.2
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	3026.7	3011.7	2996.9	2987.0	2983.7	2896.2	2858.2	2833.4	2780.7	2737.8	2703.0
5°	3338.8	3307.4	3282.6	3252.9	3236.4	3015.2	2934.3	2878.1	2785.6	2731.0	2681.6
7.5°	3840.8	3753.2	3702.1	3644.2	3594.7	3195.1	3061.3	2973.7	2845.0	2772.3	2716.2
10°	4410.4	4319.6	4238.7	4149.5	4071.8	3434.5	3239.6	3104.4	2934.3	2840.1	2765.8
12.5°	5046.0	4956.9	4854.6	4740.6	4641.5	3738.3	3467.5	3274.3	3041.5	2916.1	2812.1
15°	5797.4	5640.5	5516.8	5384.6	5269.0	4101.7	3733.4	3465.9	3155.4	2985.3	2846.6
17.5°	6495.9	6330.7	6162.4	6046.8	5913.1	4509.5	4001.0	3660.8	3249.6	3030.0	2853.2
20°	7177.8	6997.8	6852.5	6697.4	6557.0	4932.1	4286.5	3832.4	3310.8	3031.6	2812.1
22.5°	7778.9	7666.6	7504.8	7336.4	7194.3	5354.8	4554.0	3977.8	3333.8	2993.6	2739.4
25°	8462.5	8343.5	8145.4	8003.4	7844.9	5785.9	4816.6	4090.1	3320.6	2922.6	2627.2
27.5°	9192.4	9060.2	8857.1	8708.4	8517.0	6233.2	5057.6	4171.0	3271.1	2807.1	2476.8
30°	9953.5	9832.9	9633.2	9483.0	9289.7	6707.3	5326.8	4225.4	3171.9	2646.9	2301.7
32.5°	10770.9	10670.2	10472.0	10315.1	10108.7	7220.8	5577.8	4241.9	3021.7	2457.0	2116.9
35°	11547.0	11477.6	11310.7	11163.9	10949.3	7706.2	5843.7	4233.7	2843.3	2248.9	1948.5
37.5°	12420.4	12379.2	12296.5	12110.1	11847.4	8365.0	6162.4	4199.0	2625.4	2042.6	1819.6
40°	13351.7	13355.0	13265.9	13138.7	12894.4	9164.2	6542.1	4131.3	2387.7	1860.8	1702.4
42.5°	14337.5	14388.7	14345.8	14254.9	14020.4	9970.1	6996.2	4048.8	2156.6	1684.2	1586.9
45°	15466.9	15529.7	15595.7	15461.9	15234.0	11033.4	7593.9	3941.5	1907.1	1537.3	1507.5
47.5°	16769.7	16868.8	16928.3	16929.8	16702.0	12351.1	8564.9	3877.1	1685.8	1438.1	1469.5
50°	19519.0	19550.4	19690.8	19935.1	19760.0	15400.9	10260.6	3837.4	1535.7	1377.1	1441.5
52.5°	23480.3	23825.3	24068.1	24051.6	23813.8	17337.7	11195.2	3632.7	1446.5	1353.9	1428.3
55°	25093.6	25524.5	25973.7	26092.4	25907.6	18990.6	12078.6	3427.9	1403.5	1370.5	1433.2
57.5°	27243.3	27969.9	28585.9	28845.0	28577.6	21105.9	13241.0	3320.6	1390.3	1415.1	1464.6
60°	29754.9	30653.1	31462.2	31927.9	31927.9	23536.4	14446.5	3275.9	1372.2	1481.1	1517.4
62.5°	31368.2	32687.4	33909.4	34591.4	34571.5	25228.9	14981.5	3124.0	1330.8	1527.4	1590.1
65°	31374.7	32943.5	34500.5	35266.6	35306.3	25020.9	14098.1	2759.1	1254.9	1533.9	1662.8
67.5°	28759.1	30431.9	32246.5	33103.6	33301.6	23032.8	12204.2	2268.8	1131.1	1467.9	1689.3
70°	24289.5	25922.4	27775.1	28617.2	28968.9	19634.7	9829.8	1748.6	972.5	1322.7	1634.6
72.5°	19136.0	20737.6	22027.2	22643.0	22917.2	15008.0	7158.1	1321.0	797.5	1114.5	1487.8
75°	13548.1	14750.3	15435.5	15572.6	15615.5	9047.0	4349.4	982.4	657.2	866.9	1256.5
77.5°	7646.8	8162.0	8105.9	8166.9	7658.3	3492.3	1893.9	703.5	541.6	658.8	974.2
80°	2985.3	3077.9	2891.3	2833.4	2599.1	1299.5	835.6	490.5	432.7	498.6	682.0
82.5°	1315.9	1359.0	1319.3	1329.2	1271.5	670.3	500.4	355.0	330.2	364.9	452.4
85°	724.9	738.0	734.9	756.3	724.9	267.4	237.8	218.0	231.1	247.8	290.6
87.5°	353.4	356.6	345.0	363.3	351.6	135.5	117.1	123.8	135.5	138.7	138.7
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):

	135°	145°	155°	165°	175°	180°
0°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	2678.2	2665.0	2666.7	2663.5	2656.7	2656.7
5°	2655.2	2641.9	2641.9	2638.6	2630.3	2632.0
7.5°	2678.2	2656.7	2648.6	2637.0	2625.4	2625.4
10°	2704.6	2666.7	2643.6	2623.8	2608.9	2608.9
12.5°	2724.5	2665.0	2627.2	2600.7	2585.9	2585.9
15°	2731.0	2653.6	2600.7	2569.3	2556.0	2554.4
17.5°	2709.6	2608.9	2544.4	2508.2	2491.7	2486.7
20°	2643.6	2528.0	2450.3	2409.2	2386.0	2377.8
22.5°	2544.4	2412.4	2321.6	2278.7	2248.9	2244.0
25°	2405.8	2263.8	2174.6	2133.4	2116.9	2111.9
27.5°	2244.0	2111.9	2036.0	2009.5	1994.6	1993.0
30°	2090.4	1978.2	1922.1	1902.3	1884.0	1880.7
32.5°	1946.7	1875.8	1854.3	1826.3	1783.3	1778.4
35°	1844.4	1837.8	1822.9	1760.1	1707.4	1692.4
37.5°	1781.7	1842.8	1766.7	1643.0	1605.0	1601.7
40°	1745.3	1791.6	1661.1	1618.1	1621.5	1618.1
42.5°	1662.8	1710.6	1664.4	1644.5	1657.8	1661.1
45°	1580.2	1633.1	1689.3	1676.0	1707.4	1707.4
47.5°	1533.9	1613.3	1687.6	1687.6	1733.8	1750.3
50°	1481.1	1596.7	1661.1	1684.2	1720.6	1707.4
52.5°	1477.8	1568.7	1623.1	1664.4	1681.0	1666.0
55°	1482.8	1545.5	1585.1	1631.4	1651.3	1652.9
57.5°	1489.4	1532.2	1558.7	1580.2	1639.6	1639.6
60°	1505.9	1520.8	1535.7	1547.2	1624.9	1626.4
62.5°	1532.2	1509.2	1505.9	1517.4	1616.5	1609.9
65°	1573.7	1492.8	1467.9	1479.5	1608.2	1588.5
67.5°	1629.7	1467.9	1420.0	1428.3	1601.7	1558.7
70°	1681.0	1428.3	1360.7	1352.4	1538.9	1463.0
72.5°	1685.8	1382.0	1278.1	1253.2	1337.4	1264.9
75°	1603.4	1350.7	1187.2	1114.5	1104.6	1094.8
77.5°	1444.8	1332.5	1081.6	967.7	947.8	954.4
80°	1208.7	1264.9	954.4	819.1	926.3	914.7
82.5°	903.2	1116.2	810.7	724.9	723.2	639.1
85°	502.0	870.2	660.4	543.3	378.1	366.6
87.5°	140.3	483.7	462.4	307.1	209.8	218.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)