

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: P269661

Luminaire Tested: **GLEON-AF-09-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269661
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-09-LED-E1-T2R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48166.2 lumens
Efficiency: N/A
Efficacy: 96.1 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 - G5

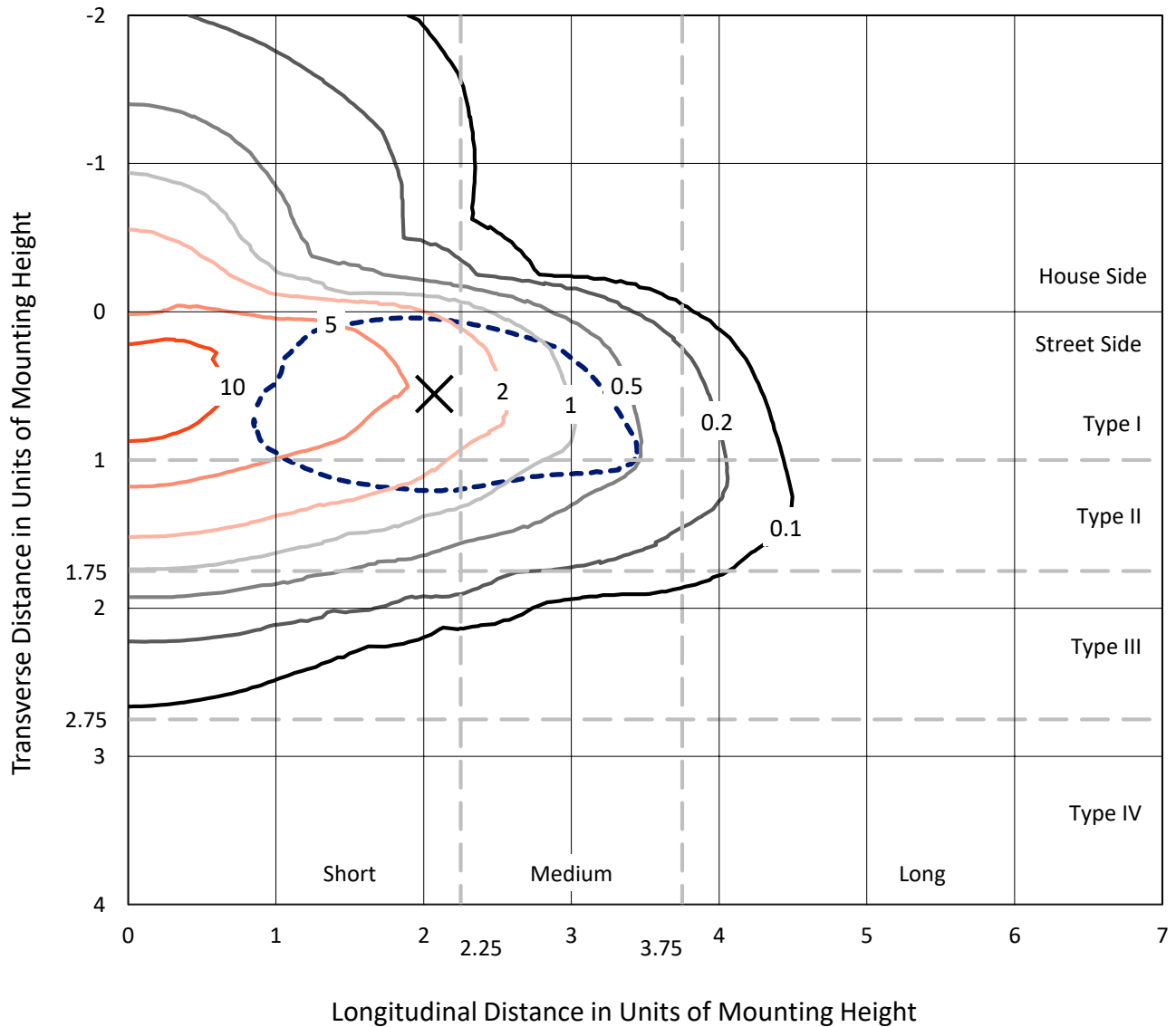
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

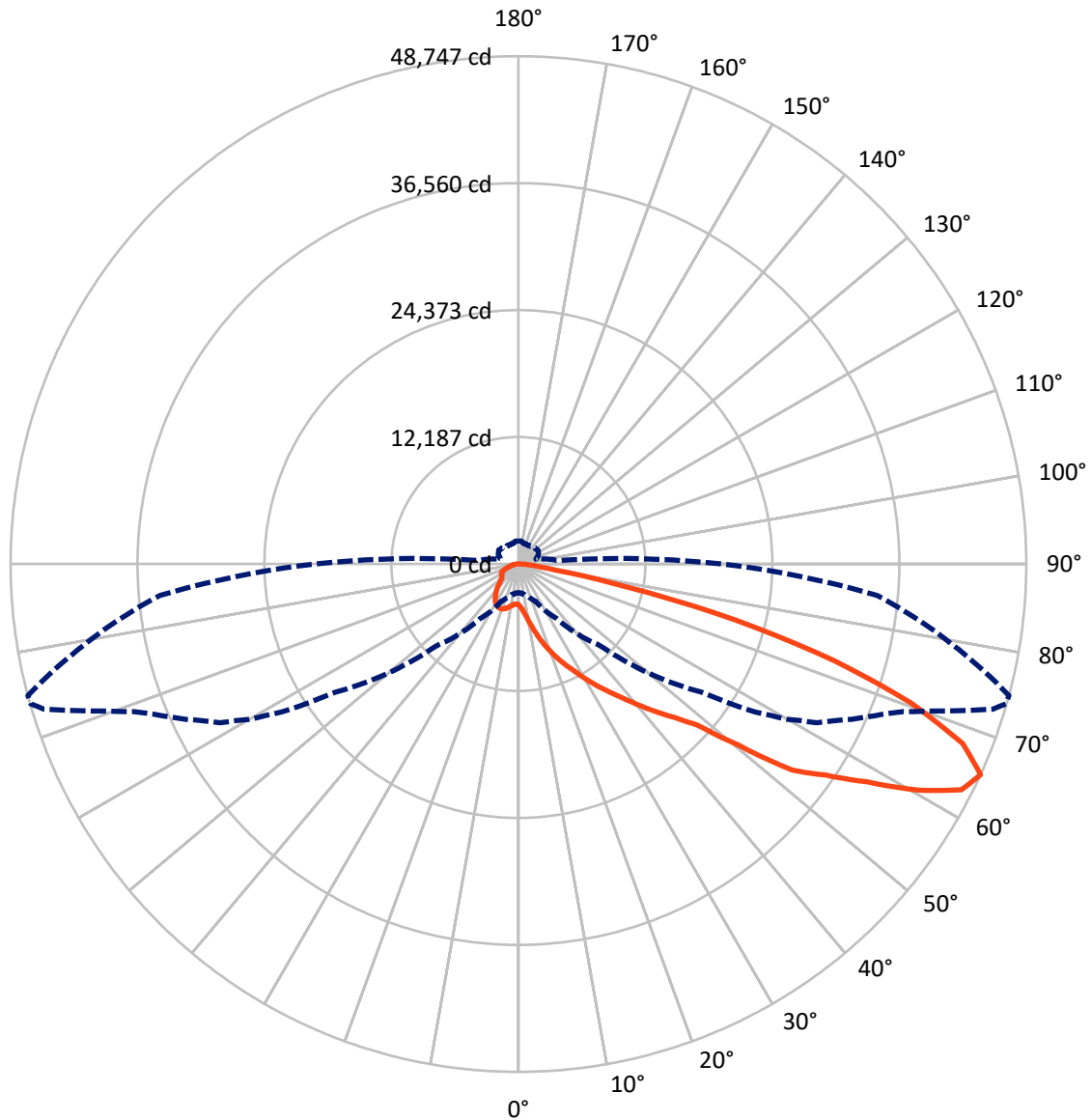
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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	7426.1	0.0	7426.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	40740.1	0.0	40740.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	48166.2	0.0	48166.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.8	1.0
10°-20°	1890.5	3.9
20°-30°	3878.6	8.1
30°-40°	6525.5	13.5
40°-50°	9016.5	18.7
50°-60°	11255.3	23.4
60°-70°	10128.5	21.0
70°-80°	4245.8	8.8
80°-90°	741.8	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°	48166.2	100.0
0°-180°	48166.2	100.0



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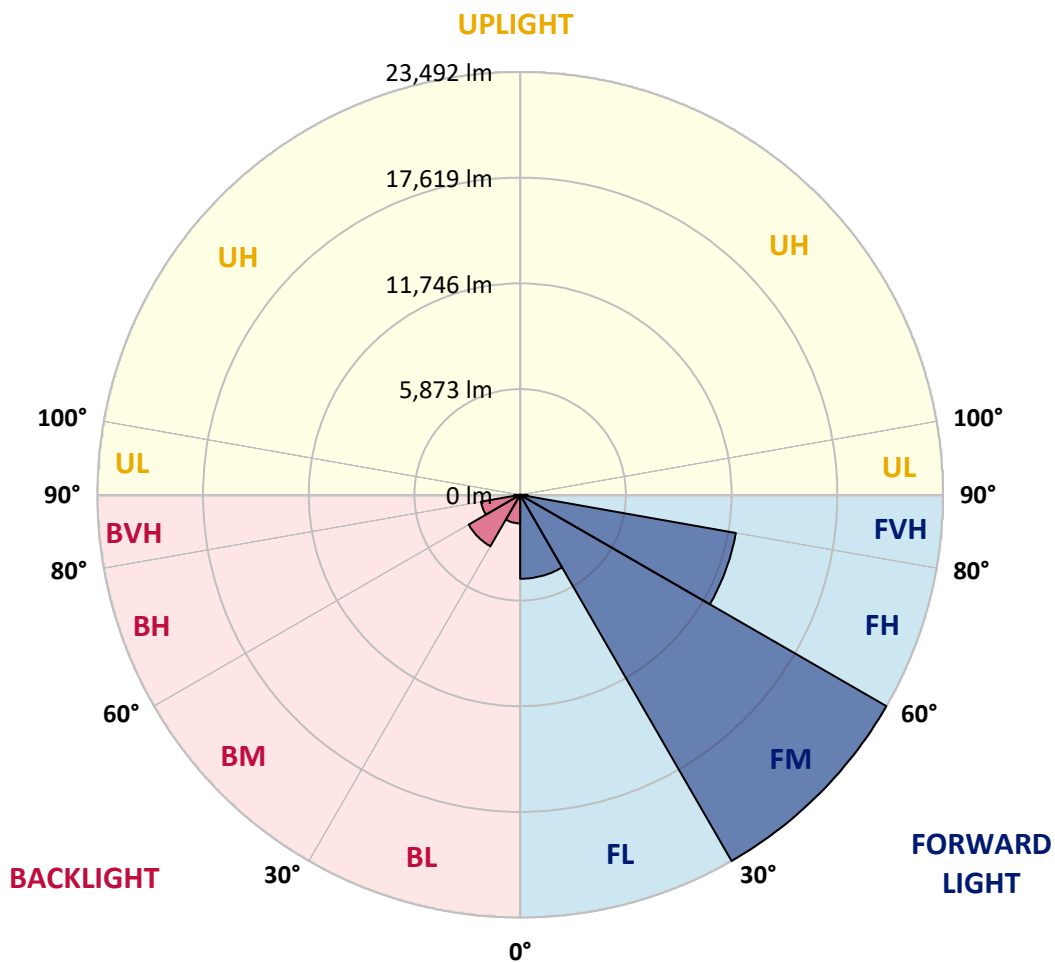
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4664.8	9.7			
FM	(30°-60°)	23491.8	48.8			
FH	(60°-80°)	12166.6	25.3			G5
FVH	(80°-90°)	416.9	0.9			G3/500
BL	(0°-30°)	1588.1	3.3	B3/2500		
BM	(30°-60°)	3305.5	6.9	B3/5000		
BH	(60°-80°)	2207.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	324.8	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5
2.5°	4970.0	4915.3	4928.9	4837.7	4726.1	4580.1	4418.3	4416.0	4418.3	4402.4	4343.0
5°	6891.8	6825.7	6800.7	6595.4	6294.6	5865.9	5400.9	5350.8	5330.3	5277.7	5156.9
7.5°	8294.0	8257.5	8218.8	8063.6	7790.1	7311.3	6686.7	6579.5	6476.9	6451.8	6315.1
10°	9199.1	9189.9	9107.8	9066.9	8895.7	8480.9	7872.1	7769.6	7658.0	7619.2	7475.4
12.5°	9914.9	9912.5	9873.8	9885.2	9737.1	9436.2	8911.7	8818.3	8736.1	8617.7	8515.0
15°	10409.6	10411.9	10468.8	10532.6	10509.9	10307.1	9814.5	9773.5	9702.9	9620.8	9499.9
17.5°	10815.5	10826.8	10886.1	11002.4	11127.8	11111.8	10721.9	10687.8	10626.2	10514.4	10450.6
20°	11731.9	11775.3	11661.2	11661.2	11674.9	11736.4	11549.5	11522.1	11435.6	11376.2	11326.1
22.5°	13279.9	13329.9	13072.5	12810.2	12552.6	12365.7	12178.7	12212.8	12153.7	12112.6	12082.9
25°	15290.7	15329.3	14912.3	14469.9	13945.6	13261.6	12798.8	12778.3	12746.4	12721.3	12707.7
27.5°	17182.9	17198.9	16804.5	16156.9	15548.3	14565.7	13428.0	13403.0	13364.3	13316.4	13275.3
30°	18801.5	18797.0	18391.2	17773.3	17121.3	16033.8	14383.3	14305.8	14191.9	14061.9	13961.5
32.5°	20203.6	20196.9	19752.2	19111.6	18427.7	17488.5	15692.0	15532.4	15354.5	15101.4	14948.6
35°	21307.1	21302.4	20883.0	20215.0	19430.8	18858.6	17192.0	16995.9	16770.3	16430.5	16195.7
37.5°	21724.3	21724.3	21489.4	21033.5	20340.4	19948.3	18858.6	18621.4	18379.9	17994.5	17730.0
40°	21480.4	21484.9	21535.1	21450.6	21113.3	20812.3	20413.4	20272.1	20064.5	19718.1	19442.1
42.5°	20661.8	20687.0	21019.8	21427.9	21596.6	21548.7	21792.6	21728.8	21582.9	21316.2	21097.4
45°	19624.6	19702.0	20066.9	20837.4	21731.1	22184.8	22948.6	22955.4	22928.0	22784.4	22615.6
47.5°	18199.8	18309.2	18790.1	19832.1	21416.5	22802.5	24122.6	24184.2	24241.1	24147.7	24070.2
50°	16307.4	16437.4	17157.7	18539.4	20775.9	23443.2	26340.9	26618.9	26878.9	26846.9	26899.4
52.5°	14280.6	14433.4	15315.7	16854.5	19674.7	23591.4	27759.0	28212.6	28666.3	29037.9	29432.2
55°	12452.2	12370.2	13252.5	14873.4	17864.6	22923.5	29033.3	29580.5	30086.7	30542.6	31012.1
57.5°	9974.2	10108.6	10993.2	12595.9	15468.5	21038.0	29911.0	30711.3	31438.5	32193.1	32858.8
60°	7290.9	7425.3	8385.0	10012.9	12867.2	18179.2	29240.8	30453.6	31618.6	32774.5	33677.3
62.5°	4402.4	4502.7	5348.4	6898.8	9921.7	14789.1	26254.3	27845.5	29559.9	30941.5	32325.4
65°	2740.3	2797.3	3109.7	3962.3	6372.0	11041.1	21450.6	23185.7	25032.3	26785.4	28223.9
67.5°	2243.3	2263.9	2320.9	2503.2	3499.4	7199.6	15965.4	17502.0	19168.7	20864.8	22465.3
70°	2017.7	2003.9	2003.9	2015.3	2243.3	3871.1	10452.9	11453.7	12842.1	14317.1	15780.9
72.5°	1821.6	1807.8	1782.7	1748.6	1830.7	2361.9	5403.1	6157.7	7158.7	8469.5	9871.6
75°	1636.9	1618.7	1589.0	1545.8	1602.7	1782.7	2594.5	2911.2	3399.1	4096.8	4878.8
77.5°	1445.5	1422.6	1395.2	1363.3	1436.3	1386.2	1520.7	1634.6	1821.6	2045.0	2339.0
80°	1228.8	1208.3	1199.1	1183.2	1269.8	1055.6	1073.7	1144.5	1253.9	1374.8	1511.5
82.5°	962.1	962.1	998.6	1005.5	1101.1	759.2	802.5	864.0	921.0	984.9	1048.7
85°	633.8	638.3	761.5	809.4	868.7	510.6	601.9	622.3	668.0	704.5	731.8
87.5°	198.3	214.2	465.1	515.3	499.3	289.6	369.4	378.5	410.3	435.5	458.2
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°	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5
2.5°	4343.0	4315.6	4290.6	4288.2	4270.1	4245.0	4254.2	4215.3	4217.6	4197.2	4174.3
5°	5106.8	5088.4	4997.4	4972.3	4903.8	4860.5	4853.7	4762.5	4751.1	4698.7	4641.7
7.5°	6205.6	6146.4	6018.6	5957.1	5840.9	5754.3	5713.2	5592.4	5533.1	5396.3	5334.8
10°	7356.8	7281.8	7124.4	7037.7	6926.0	6787.0	6711.7	6536.2	6467.7	6342.5	6191.9
12.5°	8423.9	8348.7	8186.8	8120.7	7972.5	7824.2	7742.2	7543.8	7454.9	7254.4	7135.7
15°	9411.1	9335.7	9194.4	9126.1	8977.9	8857.1	8747.6	8551.5	8446.7	8259.7	8104.7
17.5°	10368.5	10288.7	10165.7	10104.0	9960.4	9837.3	9718.9	9534.2	9427.1	9240.1	9101.0
20°	11257.6	11198.5	11109.5	11027.5	10883.8	10772.0	10630.7	10471.2	10316.1	10179.4	10047.2
22.5°	12032.7	12010.0	11914.3	11877.7	11754.7	11658.9	11535.9	11378.6	11266.8	11093.4	10970.5
25°	12700.7	12693.9	12648.3	12636.9	12550.3	12459.1	12431.7	12301.7	12199.3	12046.5	11918.8
27.5°	13275.3	13282.2	13270.8	13302.7	13279.9	13238.9	13241.0	13197.8	13138.5	13010.8	12899.1
30°	13913.7	13877.1	13897.7	13943.3	13957.0	13961.5	14036.7	14061.9	14057.2	13973.0	13918.2
32.5°	14816.5	14729.8	14650.0	14643.2	14688.7	14707.1	14834.7	14900.8	14957.8	14978.2	14987.4
35°	15967.7	15794.4	15628.1	15539.2	15461.6	15482.2	15573.3	15680.5	15805.9	15892.5	15995.1
37.5°	17417.6	17205.6	16911.6	16701.8	16649.5	16535.5	16594.7	16679.1	16802.2	16936.6	17114.5
40°	19175.4	18853.9	18523.4	18245.3	18094.7	17885.1	17882.7	17866.7	17942.0	18067.5	18318.2
42.5°	20867.1	20582.1	20231.0	19939.1	19743.0	19462.7	19405.6	19257.5	19291.7	19401.1	19645.0
45°	22451.5	22216.7	22002.4	21665.1	21498.5	21195.4	21099.6	20924.0	20826.0	20876.3	21120.1
47.5°	23985.9	23835.4	23611.9	23393.1	23265.5	22994.2	22870.9	22745.7	22620.2	22615.6	22870.9
50°	26976.9	26897.1	26632.7	26404.7	26466.3	26133.4	26154.0	25816.5	25969.2	25987.4	26523.3
52.5°	29787.9	30066.1	30262.1	30501.5	30656.5	30686.2	30788.8	30941.5	31126.2	31491.0	31987.9
55°	31397.5	31746.3	31949.2	32131.6	32432.4	32496.4	32667.4	32870.2	33032.0	33442.6	33864.2
57.5°	33310.2	33957.6	34272.3	34561.8	34967.7	35122.7	35407.7	35628.8	35838.5	36324.1	36834.8
60°	34488.8	35277.7	35918.3	36376.5	36884.9	37249.7	37680.7	38027.1	38519.6	39101.0	39862.4
62.5°	33551.9	34710.0	35560.5	36347.0	37037.7	37735.3	38353.1	39000.6	39748.5	40628.5	41809.4
65°	29819.9	30998.5	32455.4	33271.5	34185.7	35261.8	36201.1	37249.7	38268.9	39550.0	41296.4
67.5°	24006.3	25376.5	27013.4	27836.4	28887.4	30088.9	31142.1	32423.5	33613.5	35165.9	37324.9
70°	17303.7	19075.1	20452.2	21311.6	22538.1	23776.1	24793.0	26283.9	27268.8	28860.0	31092.0
72.5°	10956.7	12354.3	14041.3	15124.3	16214.0	17467.8	18507.5	19793.3	20712.0	22161.9	24184.2
75°	5891.1	6921.5	8403.4	9431.6	10598.8	11670.3	12887.8	13749.5	14428.8	15575.6	17217.0
77.5°	2760.9	3387.8	4137.9	4928.9	5720.0	6545.3	7347.7	8045.4	8337.3	8993.8	9962.7
80°	1675.7	1878.5	2097.5	2341.3	2671.9	2938.6	3292.1	3547.3	3565.6	3773.2	4069.4
82.5°	1119.4	1194.7	1260.7	1322.2	1406.7	1472.7	1548.0	1636.9	1673.5	1721.2	1817.0
85°	763.6	800.2	813.9	852.6	843.5	866.3	896.0	925.7	941.6	939.3	982.6
87.5°	469.6	487.9	497.0	506.1	499.3	490.1	503.8	519.8	524.3	510.6	515.3
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°	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5
2.5°	4178.8	4158.3	4137.9	4124.2	4119.5	3998.7	3946.3	3912.2	3839.1	3779.9	3732.1
5°	4609.7	4566.4	4532.3	4491.3	4468.3	4162.9	4051.3	3973.7	3846.1	3770.7	3702.5
7.5°	5302.9	5182.1	5111.4	5031.5	4963.1	4411.4	4226.7	4106.0	3928.1	3827.8	3750.2
10°	6089.4	5963.9	5852.3	5729.1	5622.0	4742.1	4473.0	4286.1	4051.3	3921.3	3818.6
12.5°	6967.1	6843.9	6702.7	6545.3	6408.5	5161.5	4787.5	4520.9	4199.3	4026.2	3882.6
15°	8004.3	7787.9	7616.8	7434.5	7274.8	5663.1	5154.7	4785.4	4356.7	4122.0	3930.4
17.5°	8968.8	8740.8	8508.2	8348.7	8163.9	6226.2	5523.9	5054.4	4486.7	4183.4	3939.4
20°	9910.3	9661.8	9461.2	9247.0	9053.1	6809.8	5918.4	5291.5	4571.0	4185.7	3882.6
22.5°	10740.1	10585.2	10361.7	10129.2	9933.1	7393.4	6287.6	5492.1	4602.9	4133.3	3782.3
25°	11684.1	11519.9	11246.3	11050.2	10831.4	7988.4	6650.2	5647.0	4584.7	4035.2	3627.1
27.5°	12691.7	12509.3	12228.8	12023.8	11759.3	8606.2	6983.1	5758.8	4516.3	3875.6	3419.7
30°	13742.7	13576.3	13300.3	13092.9	12826.2	9260.5	7354.7	5834.0	4379.4	3654.6	3178.1
32.5°	14871.3	14732.2	14458.5	14242.0	13957.0	9969.6	7701.2	5856.8	4172.1	3392.4	2922.7
35°	15942.7	15846.9	15616.7	15413.7	15117.3	10639.9	8068.2	5845.5	3925.9	3105.1	2690.2
37.5°	17148.7	17091.7	16977.6	16720.2	16357.5	11549.5	8508.2	5797.5	3624.9	2820.0	2512.3
40°	18434.5	18439.1	18315.9	18140.5	17803.0	12652.9	9032.5	5704.1	3296.6	2569.3	2350.4
42.5°	19795.5	19866.2	19807.0	19681.5	19357.8	13765.4	9659.6	5590.2	2977.4	2325.4	2190.8
45°	21355.0	21441.6	21532.7	21348.1	21033.5	15233.6	10484.8	5441.9	2633.2	2122.4	2081.5
47.5°	23153.8	23290.4	23372.6	23374.8	23060.2	17053.0	11825.4	5353.0	2327.7	1985.8	2029.0
50°	26949.6	26992.9	27186.7	27524.1	27282.5	21263.7	14166.7	5298.3	2120.2	1901.4	1990.3
52.5°	32418.8	32895.4	33230.5	33207.6	32879.4	23937.9	15457.0	5015.5	1997.1	1869.5	1972.0
55°	34646.2	35241.2	35861.3	36025.4	35770.1	26220.1	16676.8	4732.9	1937.9	1892.2	1978.8
57.5°	37614.5	38617.6	39468.0	39825.8	39456.7	29140.5	18281.8	4584.7	1919.6	1953.9	2022.2
60°	41082.0	42322.2	43439.3	44082.3	44082.3	32496.4	19946.1	4523.1	1894.5	2045.0	2095.1
62.5°	43309.4	45131.0	46818.0	47759.6	47732.2	34833.1	20684.6	4313.4	1837.6	2108.9	2195.5
65°	43318.5	45484.4	47634.2	48692.1	48746.7	34545.8	19465.0	3809.5	1732.7	2117.9	2295.8
67.5°	39707.4	42016.9	44522.3	45705.6	45979.0	31801.0	16850.0	3132.5	1561.7	2026.8	2332.2
70°	33536.0	35790.7	38348.6	39511.3	39996.9	27109.2	13571.7	2414.4	1342.7	1826.2	2257.0
72.5°	26420.7	28632.0	30412.6	31263.0	31641.4	20721.2	9883.0	1823.9	1101.1	1538.8	2054.2
75°	18705.8	20365.6	21311.6	21500.8	21560.1	12491.0	6005.0	1356.5	907.4	1196.9	1734.9
77.5°	10557.8	11269.1	11191.5	11276.0	10573.7	4821.8	2615.0	971.2	747.7	909.7	1345.1
80°	4122.0	4249.5	3992.0	3912.2	3588.4	1794.3	1153.6	677.1	597.4	688.6	941.6
82.5°	1817.0	1876.3	1821.6	1835.2	1755.5	925.7	690.7	490.1	456.0	503.8	624.7
85°	1000.8	1019.0	1014.5	1044.2	1000.8	369.4	328.3	300.9	319.2	342.0	401.3
87.5°	487.9	492.5	476.6	501.6	485.7	186.9	161.9	170.9	186.9	191.5	191.5
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):

	135°	145°	155°	165°	175°	180°
0°	3914.5	3914.5	3914.5	3914.5	3914.5	3914.5
2.5°	3697.9	3679.5	3682.0	3677.3	3668.1	3668.1
5°	3666.0	3647.7	3647.7	3643.2	3631.8	3634.1
7.5°	3697.9	3668.1	3656.8	3640.8	3624.9	3624.9
10°	3734.3	3682.0	3650.0	3622.7	3602.2	3602.2
12.5°	3761.7	3679.5	3627.1	3590.6	3570.1	3570.1
15°	3770.7	3663.6	3590.6	3547.3	3529.1	3526.8
17.5°	3741.1	3602.2	3513.2	3463.1	3440.1	3433.4
20°	3650.0	3490.4	3383.2	3326.2	3294.4	3282.9
22.5°	3513.2	3330.7	3205.4	3146.1	3105.1	3098.3
25°	3321.7	3125.7	3002.6	2945.5	2922.7	2915.9
27.5°	3098.3	2915.9	2810.9	2774.5	2754.1	2751.7
30°	2886.3	2731.1	2653.8	2626.4	2601.2	2596.7
32.5°	2687.9	2589.9	2560.2	2521.5	2462.2	2455.3
35°	2546.5	2537.4	2517.0	2430.3	2357.3	2336.9
37.5°	2459.9	2544.3	2439.3	2268.4	2215.9	2211.4
40°	2409.8	2473.7	2293.6	2234.3	2238.8	2234.3
42.5°	2295.8	2361.9	2298.0	2270.6	2288.9	2293.6
45°	2181.8	2254.7	2332.2	2314.0	2357.3	2357.3
47.5°	2117.9	2227.3	2329.9	2329.9	2393.9	2416.6
50°	2045.0	2204.6	2293.6	2325.4	2375.6	2357.3
52.5°	2040.4	2165.9	2241.0	2298.0	2320.9	2300.3
55°	2047.2	2134.0	2188.6	2252.4	2279.8	2282.1
57.5°	2056.4	2115.7	2152.1	2181.8	2263.9	2263.9
60°	2079.1	2099.7	2120.2	2136.2	2243.3	2245.7
62.5°	2115.7	2083.8	2079.1	2095.1	2231.8	2222.8
65°	2172.6	2060.9	2026.8	2042.7	2220.5	2193.2
67.5°	2250.2	2026.8	1960.6	1972.0	2211.4	2152.1
70°	2320.9	1972.0	1878.5	1867.1	2124.9	2019.8
72.5°	2327.7	1908.2	1764.6	1730.3	1846.6	1746.3
75°	2213.8	1864.9	1639.1	1538.8	1525.2	1511.5
77.5°	1994.9	1839.8	1493.3	1336.0	1308.7	1317.8
80°	1668.8	1746.3	1317.8	1130.7	1278.9	1262.9
82.5°	1247.0	1541.1	1119.4	1000.8	998.6	882.2
85°	693.0	1201.5	911.9	750.1	522.0	506.1
87.5°	193.8	668.0	638.3	424.0	289.6	300.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)