

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: P269741

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269741
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-10-LED-E1-T2R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 53327.8 lumens
Efficiency: N/A
Efficacy: 95.6 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

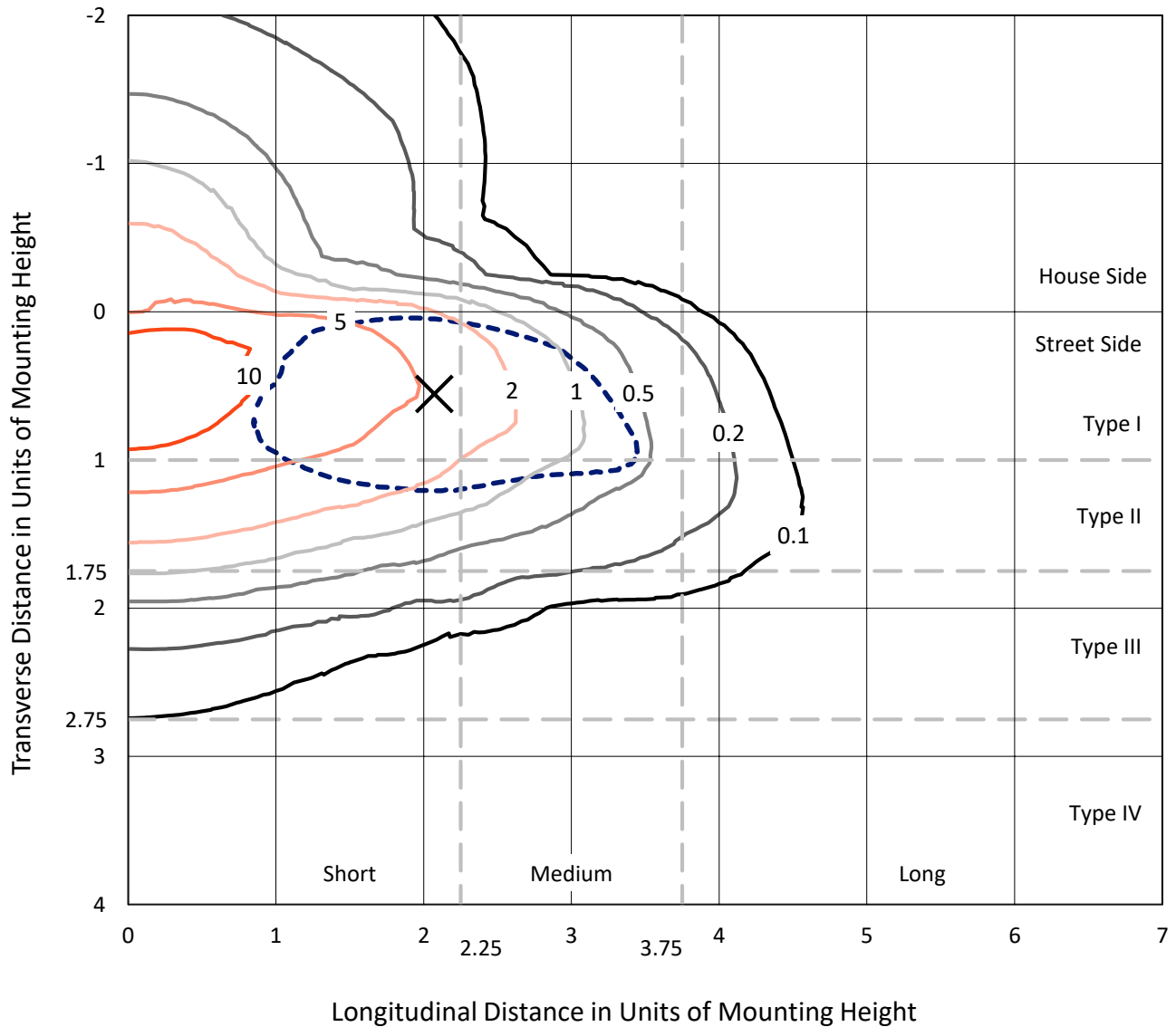
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

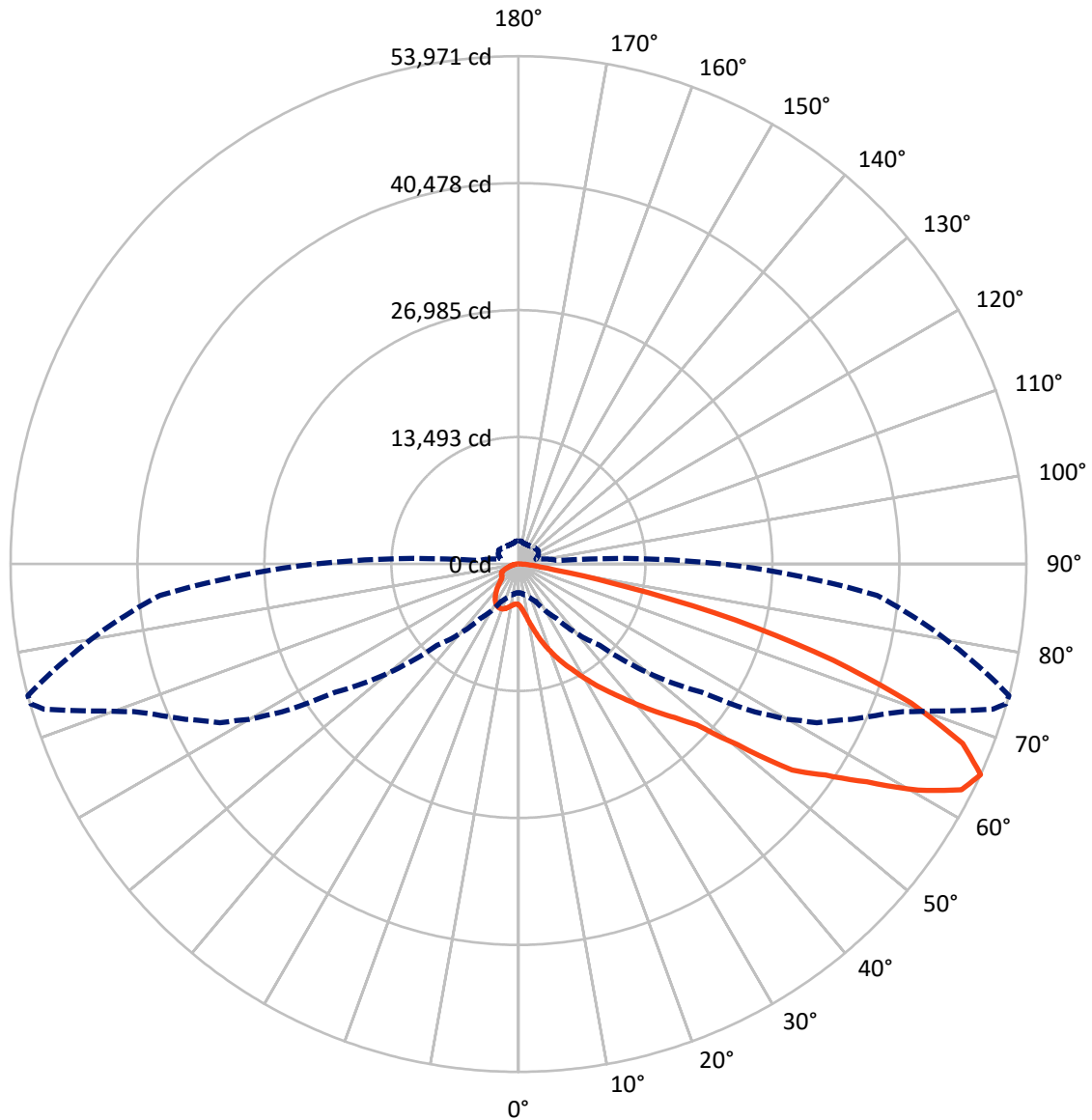
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 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	8221.9	0.0	8221.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	45105.9	0.0	45105.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	53327.8	0.0	53327.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.7	1.0
10°-20°	2093.0	3.9
20°-30°	4294.2	8.1
30°-40°	7224.8	13.5
40°-50°	9982.7	18.7
50°-60°	12461.4	23.4
60°-70°	11213.9	21.0
70°-80°	4700.8	8.8
80°-90°	821.2	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°	53327.8	100.0
0°-180°	53327.8	100.0

Coefficient of Utilization



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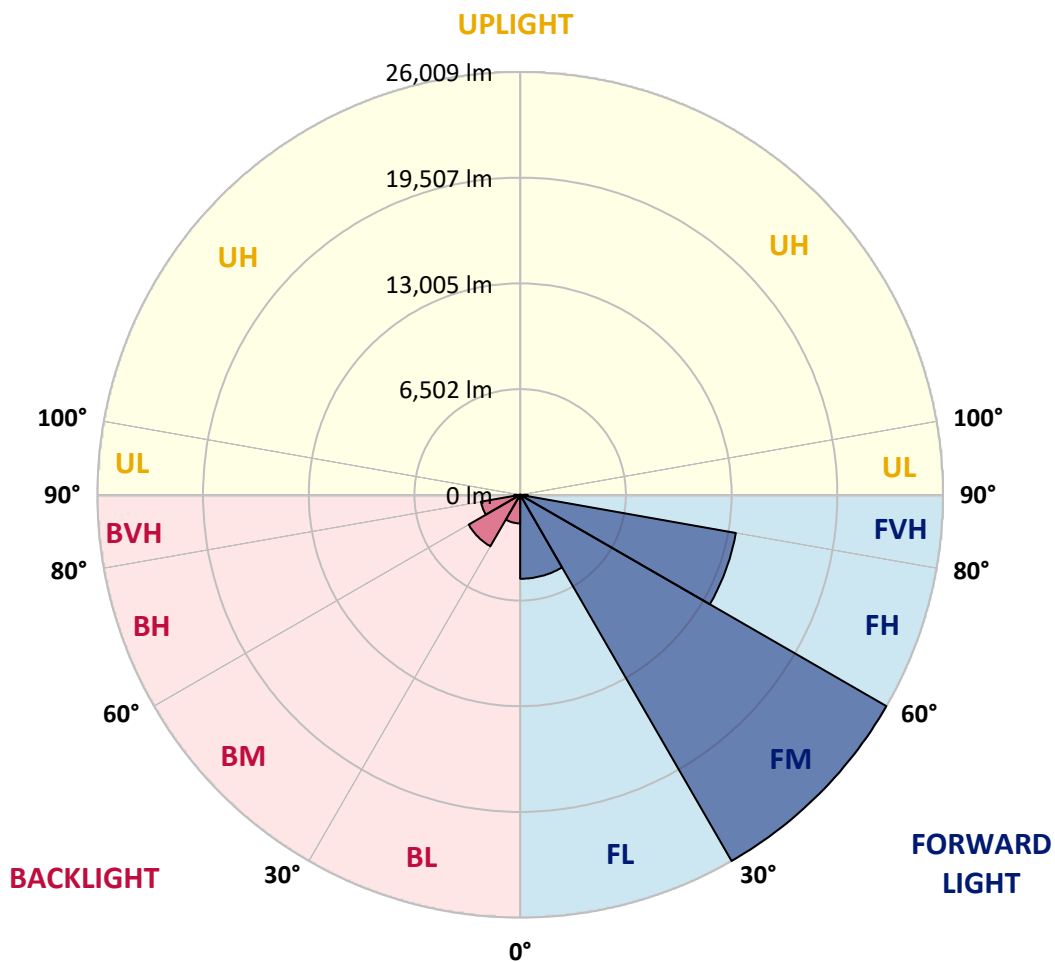
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5164.6	9.7			
FM	(30°-60°)	26009.3	48.8			
FH	(60°-80°)	13470.4	25.3			G5
FVH	(80°-90°)	461.6	0.9			G3/500
BL	(0°-30°)	1758.3	3.3	B3/2500		
BM	(30°-60°)	3659.7	6.9	B3/5000		
BH	(60°-80°)	2444.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	359.6	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°	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0
2.5°	5502.6	5442.0	5457.2	5356.1	5232.4	5070.9	4891.7	4889.3	4891.7	4874.1	4808.4
5°	7630.5	7557.3	7529.5	7302.2	6969.1	6494.6	5979.7	5924.1	5901.3	5843.4	5709.5
7.5°	9182.7	9142.3	9099.4	8927.7	8624.8	8094.8	7403.2	7284.5	7171.0	7143.2	6991.8
10°	10184.9	10174.7	10083.8	10038.4	9849.0	9389.8	8715.7	8602.2	8478.6	8435.7	8276.5
12.5°	10977.4	10974.9	10932.0	10944.6	10780.5	10447.3	9866.8	9763.3	9672.4	9541.2	9427.5
15°	11525.2	11527.6	11590.7	11661.3	11636.1	11411.4	10866.3	10820.9	10742.7	10651.7	10518.0
17.5°	11974.3	11987.1	12052.6	12181.3	12320.3	12302.6	11870.9	11833.1	11764.9	11641.2	11570.6
20°	12989.1	13037.0	12910.8	12910.8	12926.0	12994.2	12787.2	12756.9	12660.9	12595.3	12539.8
22.5°	14703.0	14758.6	14473.3	14183.0	13897.8	13690.8	13483.7	13521.6	13456.0	13410.6	13377.7
25°	16929.3	16972.1	16510.2	16020.6	15440.0	14682.7	14170.4	14147.6	14112.4	14084.5	14069.4
27.5°	19024.2	19041.9	18605.2	17888.4	17214.5	16126.6	14866.9	14839.3	14796.3	14743.3	14697.9
30°	20816.3	20811.4	20362.1	19678.0	18956.2	17752.0	15924.7	15838.8	15712.7	15568.7	15457.7
32.5°	22368.8	22361.1	21869.0	21159.7	20402.5	19362.4	17373.5	17196.9	17000.0	16719.8	16550.6
35°	23590.4	23585.3	23120.8	22381.4	21513.0	20879.5	19034.4	18817.2	18567.3	18191.2	17931.2
37.5°	24052.3	24052.3	23792.2	23287.5	22520.1	22086.0	20879.5	20617.0	20349.5	19922.8	19630.0
40°	23782.2	23787.3	23842.9	23749.4	23375.9	23042.7	22600.9	22444.4	22214.7	21831.1	21525.6
42.5°	22876.1	22903.8	23272.3	23724.1	23910.9	23857.9	24128.0	24057.2	23895.9	23600.5	23358.2
45°	21727.6	21813.5	22217.3	23070.5	24059.8	24562.1	25407.8	25415.2	25385.1	25226.1	25039.3
47.5°	20150.1	20271.2	20803.8	21957.4	23711.5	25246.1	26707.7	26775.8	26838.9	26735.4	26649.6
50°	18055.0	18198.9	18996.5	20526.1	23002.3	25955.4	29163.7	29471.6	29759.3	29723.9	29782.0
52.5°	15811.1	15980.2	16956.9	18660.9	21783.1	26119.6	30733.6	31236.0	31738.2	32149.6	32586.3
55°	13786.6	13695.9	14672.6	16467.3	19779.1	25380.0	32144.6	32750.3	33310.7	33815.5	34335.6
57.5°	11043.0	11192.0	12171.2	13945.7	17126.1	23292.5	33116.3	34002.4	34807.5	35642.9	36380.1
60°	8072.1	8221.1	9283.8	11086.0	14246.1	20127.3	32374.2	33717.2	35006.9	36286.7	37286.2
62.5°	4874.1	4985.1	5921.5	7638.0	10985.0	16373.9	29067.7	30829.6	32727.7	34257.3	35789.5
65°	3033.9	3097.0	3442.9	4387.0	7054.8	12224.2	23749.4	25670.2	27714.8	29655.8	31248.5
67.5°	2483.8	2506.5	2569.5	2771.5	3874.5	7971.2	17676.4	19377.6	21222.7	23100.8	24872.6
70°	2233.8	2218.8	2218.8	2231.3	2483.8	4286.0	11573.0	12681.2	14218.4	15851.4	17471.9
72.5°	2016.8	2001.7	1973.8	1935.9	2026.8	2615.0	5982.2	6817.6	7925.7	9377.0	10929.4
75°	1812.3	1792.1	1759.3	1711.4	1774.4	1973.8	2872.4	3223.3	3763.4	4535.8	5401.6
77.5°	1600.3	1575.1	1544.7	1509.4	1590.2	1534.7	1683.7	1809.7	2016.8	2264.2	2589.8
80°	1360.6	1337.8	1327.7	1310.0	1405.9	1168.7	1188.8	1267.1	1388.3	1522.1	1673.5
82.5°	1065.2	1065.2	1105.5	1113.1	1219.2	840.5	888.6	956.7	1019.8	1090.5	1161.1
85°	701.7	706.7	843.1	896.1	961.6	565.5	666.4	689.1	739.6	780.0	810.2
87.5°	219.5	237.2	514.9	570.5	552.7	320.5	408.9	419.0	454.4	482.1	507.4
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°	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0
2.5°	4808.4	4778.2	4750.3	4747.8	4727.7	4699.9	4710.1	4667.1	4669.6	4646.9	4621.7
5°	5654.0	5633.8	5532.9	5505.2	5429.4	5381.3	5373.8	5273.0	5260.3	5202.3	5139.2
7.5°	6870.6	6805.0	6663.6	6595.5	6466.8	6370.9	6325.4	6191.7	6126.0	5974.5	5906.4
10°	8145.3	8062.0	7887.8	7792.0	7668.2	7514.3	7431.0	7236.7	7160.8	7022.1	6855.4
12.5°	9326.7	9243.3	9064.1	8990.9	8826.8	8662.7	8571.8	8352.4	8253.8	8031.7	7900.5
15°	10419.5	10336.3	10179.8	10104.0	9939.9	9806.2	9685.0	9468.0	9351.9	9144.8	8973.2
17.5°	11479.7	11391.3	11255.0	11186.9	11027.9	10891.6	10760.3	10555.9	10437.1	10230.3	10076.3
20°	12464.1	12398.4	12300.0	12209.1	12050.1	11926.4	11770.0	11593.3	11421.6	11270.1	11123.8
22.5°	13322.3	13297.0	13191.0	13150.6	13014.4	12908.4	12772.0	12597.9	12474.1	12282.3	12146.1
25°	14061.9	14054.3	14003.8	13991.2	13895.3	13794.4	13764.0	13620.1	13506.6	13337.5	13196.1
27.5°	14697.9	14705.6	14692.9	14728.3	14703.0	14657.6	14660.1	14612.1	14546.4	14405.1	14281.4
30°	15404.7	15364.3	15387.0	15437.6	15452.6	15457.7	15540.9	15568.7	15563.7	15470.3	15409.7
32.5°	16404.2	16308.3	16219.9	16212.4	16262.8	16283.0	16424.4	16497.6	16560.8	16583.4	16593.5
35°	17679.0	17487.0	17302.9	17204.3	17118.6	17141.3	17242.2	17360.9	17499.7	17595.6	17709.1
37.5°	19284.3	19049.5	18723.9	18491.7	18433.6	18307.4	18373.0	18466.4	18602.7	18751.7	18948.5
40°	21230.4	20874.5	20508.5	20200.5	20033.9	19801.7	19799.2	19781.4	19864.8	20003.5	20281.3
42.5°	23103.1	22787.8	22399.0	22075.8	21858.8	21548.4	21485.2	21321.2	21359.1	21480.2	21750.3
45°	24857.4	24597.5	24360.2	23986.6	23802.4	23466.8	23360.7	23166.3	23057.8	23113.3	23383.4
47.5°	26556.2	26389.6	26142.2	25899.9	25758.5	25458.2	25322.0	25183.1	25044.2	25039.3	25322.0
50°	29867.8	29779.5	29486.8	29234.4	29302.4	28934.0	28956.7	28583.1	28752.2	28772.4	29365.6
52.5°	32980.1	33288.0	33505.2	33770.2	33941.7	33974.5	34088.2	34257.3	34461.8	34865.6	35415.9
55°	34762.2	35148.3	35373.0	35574.9	35908.0	35978.7	36168.1	36392.7	36571.8	37026.2	37493.2
57.5°	36879.8	37596.8	37945.0	38265.6	38714.9	38886.5	39202.0	39446.8	39679.0	40216.7	40782.2
60°	38184.9	39058.1	39767.4	40274.8	40837.7	41241.5	41718.5	42102.2	42647.5	43291.1	44134.2
62.5°	37147.4	38429.6	39371.2	40241.9	41006.8	41779.1	42463.2	43180.0	44008.0	44982.3	46289.8
65°	33015.4	34320.4	35933.3	36836.9	37849.0	39040.5	40080.4	41241.5	42369.7	43788.3	45721.8
67.5°	26579.0	28095.8	29908.2	30819.4	31983.1	33313.3	34479.5	35898.0	37215.5	38934.5	41324.8
70°	19158.1	21119.2	22643.8	23595.4	24953.4	26324.0	27449.8	29100.6	30191.0	31952.8	34423.9
72.5°	12130.9	13678.2	15546.0	16744.9	17951.5	19339.8	20490.8	21914.3	22931.7	24536.9	26775.8
75°	6522.4	7663.3	9303.8	10442.3	11734.6	12921.0	14268.8	15222.9	15975.1	17244.8	19062.2
77.5°	3056.8	3750.9	4581.3	5457.2	6333.1	7246.7	8135.2	8907.7	9230.8	9957.6	11030.4
80°	1855.2	2079.8	2322.2	2592.2	2958.3	3253.7	3644.9	3927.5	3947.7	4177.4	4505.5
82.5°	1239.3	1322.7	1395.8	1464.0	1557.4	1630.6	1713.8	1812.3	1852.8	1905.8	2011.8
85°	845.6	886.0	901.1	943.9	933.9	959.2	992.0	1024.7	1042.5	1040.0	1087.8
87.5°	519.9	540.2	550.2	560.4	552.7	542.7	557.8	575.5	580.6	565.5	570.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0
2.5°	4626.7	4604.1	4581.3	4566.2	4561.1	4427.2	4369.3	4331.4	4250.6	4184.9	4131.9
5°	5103.8	5055.8	5017.9	4972.5	4947.2	4609.1	4485.3	4399.4	4258.1	4175.0	4099.1
7.5°	5871.1	5737.4	5659.1	5570.7	5495.0	4884.2	4679.7	4546.0	4349.1	4238.1	4152.1
10°	6741.9	6603.1	6479.5	6343.1	6224.4	5250.1	4952.4	4745.3	4485.3	4341.5	4228.0
12.5°	7713.7	7577.5	7420.9	7246.7	7095.4	5714.6	5300.7	5005.4	4649.4	4457.6	4298.6
15°	8862.1	8622.4	8433.1	8231.1	8054.5	6269.9	5707.0	5298.2	4823.5	4563.6	4351.6
17.5°	9929.9	9677.4	9419.9	9243.3	9038.8	6893.4	6115.9	5595.9	4967.4	4631.8	4361.7
20°	10972.3	10697.1	10475.0	10237.9	10023.3	7539.6	6552.5	5858.4	5060.8	4634.3	4298.6
22.5°	11891.1	11719.5	11472.2	11214.6	10997.6	8185.7	6961.5	6080.5	5096.2	4576.2	4187.4
25°	12936.1	12754.3	12451.4	12234.3	11992.1	8844.5	7362.9	6252.3	5076.1	4467.7	4015.9
27.5°	14051.7	13849.8	13539.3	13312.3	13019.3	9528.5	7731.4	6375.9	5000.2	4291.1	3786.1
30°	15215.3	15031.1	14725.6	14495.9	14200.6	10253.0	8142.7	6459.3	4848.8	4046.1	3518.7
32.5°	16464.9	16310.9	16007.9	15768.2	15452.6	11038.0	8526.4	6484.4	4619.2	3755.9	3236.0
35°	17651.2	17545.2	17290.1	17065.6	16737.4	11780.1	8932.8	6471.7	4346.4	3437.9	2978.5
37.5°	18986.3	18923.2	18797.0	18511.8	18110.5	12787.2	9419.9	6418.7	4013.4	3122.2	2781.6
40°	20410.0	20415.1	20278.8	20084.3	19710.8	14008.9	10000.6	6315.4	3649.9	2844.8	2602.4
42.5°	21916.8	21995.1	21929.6	21790.6	21432.2	15240.6	10694.7	6189.1	3296.5	2574.6	2425.7
45°	23643.4	23739.2	23840.3	23635.8	23287.5	16866.1	11608.3	6025.0	2915.4	2350.0	2304.5
47.5°	25634.9	25786.3	25877.2	25879.7	25531.4	18880.3	13092.5	5926.6	2577.1	2198.5	2246.4
50°	29837.6	29885.5	30100.0	30473.7	30206.0	23542.4	15684.9	5866.0	2347.5	2105.1	2203.5
52.5°	35892.9	36420.4	36791.5	36766.3	36402.7	26503.2	17113.5	5553.1	2211.1	2069.8	2183.4
55°	38359.0	39017.8	39704.4	39886.1	39603.3	29029.8	18463.9	5240.1	2145.5	2094.9	2191.0
57.5°	41645.3	42756.0	43697.5	44093.8	43684.8	32263.3	20240.9	5076.1	2125.3	2163.2	2238.8
60°	45484.5	46857.7	48094.4	48806.4	48806.4	35978.7	22083.5	5007.8	2097.5	2264.2	2319.7
62.5°	47950.5	49967.4	51835.2	52877.7	52847.4	38565.9	22901.3	4775.6	2034.4	2334.9	2430.8
65°	47960.7	50358.7	52738.9	53910.1	53970.6	38247.9	21550.9	4217.8	1918.3	2344.8	2541.8
67.5°	43962.5	46519.4	49293.5	50603.4	50906.3	35208.9	18655.7	3468.1	1729.0	2244.0	2582.2
70°	37129.7	39626.0	42458.1	43745.4	44283.0	30014.3	15026.0	2673.0	1486.8	2021.8	2498.8
72.5°	29252.0	31700.4	33671.7	34613.2	35032.2	22941.6	10942.1	2019.3	1219.2	1703.7	2274.1
75°	20710.3	22547.8	23595.4	23804.9	23870.5	13829.6	6648.5	1501.8	1004.7	1325.2	1920.8
77.5°	11689.1	12476.6	12391.0	12484.3	11706.8	5338.4	2895.1	1075.4	827.9	1007.1	1489.2
80°	4563.6	4705.0	4419.8	4331.4	3972.9	1986.5	1277.2	749.6	661.3	762.3	1042.5
82.5°	2011.8	2077.3	2016.8	2032.0	1943.6	1024.7	764.7	542.7	504.8	557.8	691.6
85°	1108.1	1128.4	1123.2	1156.1	1108.1	408.9	363.5	333.2	353.4	378.6	444.2
87.5°	540.2	545.2	527.6	555.3	537.6	207.0	179.2	189.4	207.0	212.0	212.0
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):

	135°	145°	155°	165°	175°	180°
0°	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0
2.5°	4094.1	4074.0	4076.5	4071.4	4061.2	4061.2
5°	4058.8	4038.6	4038.6	4033.5	4021.0	4023.5
7.5°	4094.1	4061.2	4048.8	4031.1	4013.4	4013.4
10°	4134.4	4076.5	4041.1	4010.8	3988.0	3988.0
12.5°	4164.8	4074.0	4015.9	3975.4	3952.7	3952.7
15°	4175.0	4056.2	3975.4	3927.5	3907.4	3904.8
17.5°	4142.1	3988.0	3889.8	3834.1	3809.0	3801.3
20°	4041.1	3864.4	3745.8	3682.7	3647.4	3634.7
22.5°	3889.8	3687.7	3548.9	3483.3	3437.9	3430.3
25°	3677.7	3460.6	3324.3	3261.1	3236.0	3228.4
27.5°	3430.3	3228.4	3112.3	3071.8	3049.1	3046.6
30°	3195.5	3023.9	2938.0	2907.8	2880.1	2874.9
32.5°	2975.9	2867.4	2834.6	2791.7	2726.0	2718.5
35°	2819.4	2809.3	2786.6	2690.8	2609.9	2587.2
37.5°	2723.5	2816.9	2700.8	2511.5	2453.5	2448.4
40°	2668.0	2738.7	2539.2	2473.7	2478.7	2473.7
42.5°	2541.8	2615.0	2544.3	2514.0	2534.2	2539.2
45°	2415.6	2496.4	2582.2	2562.0	2609.9	2609.9
47.5°	2344.8	2466.0	2579.7	2579.7	2650.3	2675.5
50°	2264.2	2440.9	2539.2	2574.6	2630.1	2609.9
52.5°	2259.1	2397.9	2481.2	2544.3	2569.5	2546.9
55°	2266.7	2362.5	2423.2	2493.9	2524.1	2526.7
57.5°	2276.8	2342.4	2382.8	2415.6	2506.5	2506.5
60°	2301.9	2324.8	2347.5	2365.1	2483.8	2486.2
62.5°	2342.4	2307.0	2301.9	2319.7	2471.1	2460.9
65°	2405.5	2281.9	2244.0	2261.7	2458.5	2428.2
67.5°	2491.3	2244.0	2170.8	2183.4	2448.4	2382.8
70°	2569.5	2183.4	2079.8	2067.3	2352.5	2236.4
72.5°	2577.1	2112.6	1953.6	1915.8	2044.5	1933.5
75°	2450.9	2064.8	1814.8	1703.7	1688.6	1673.5
77.5°	2208.7	2036.9	1653.3	1479.1	1448.8	1458.9
80°	1847.6	1933.5	1458.9	1252.0	1416.0	1398.3
82.5°	1380.7	1706.3	1239.3	1108.1	1105.5	976.8
85°	767.3	1330.2	1009.7	830.5	578.0	560.4
87.5°	214.5	739.6	706.7	469.5	320.5	333.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)