

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: P193967

Luminaire Tested: **GLEON-AF-09-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193967
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 49626 lumens
Efficiency: N/A
Efficacy: 86.3 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): 575
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

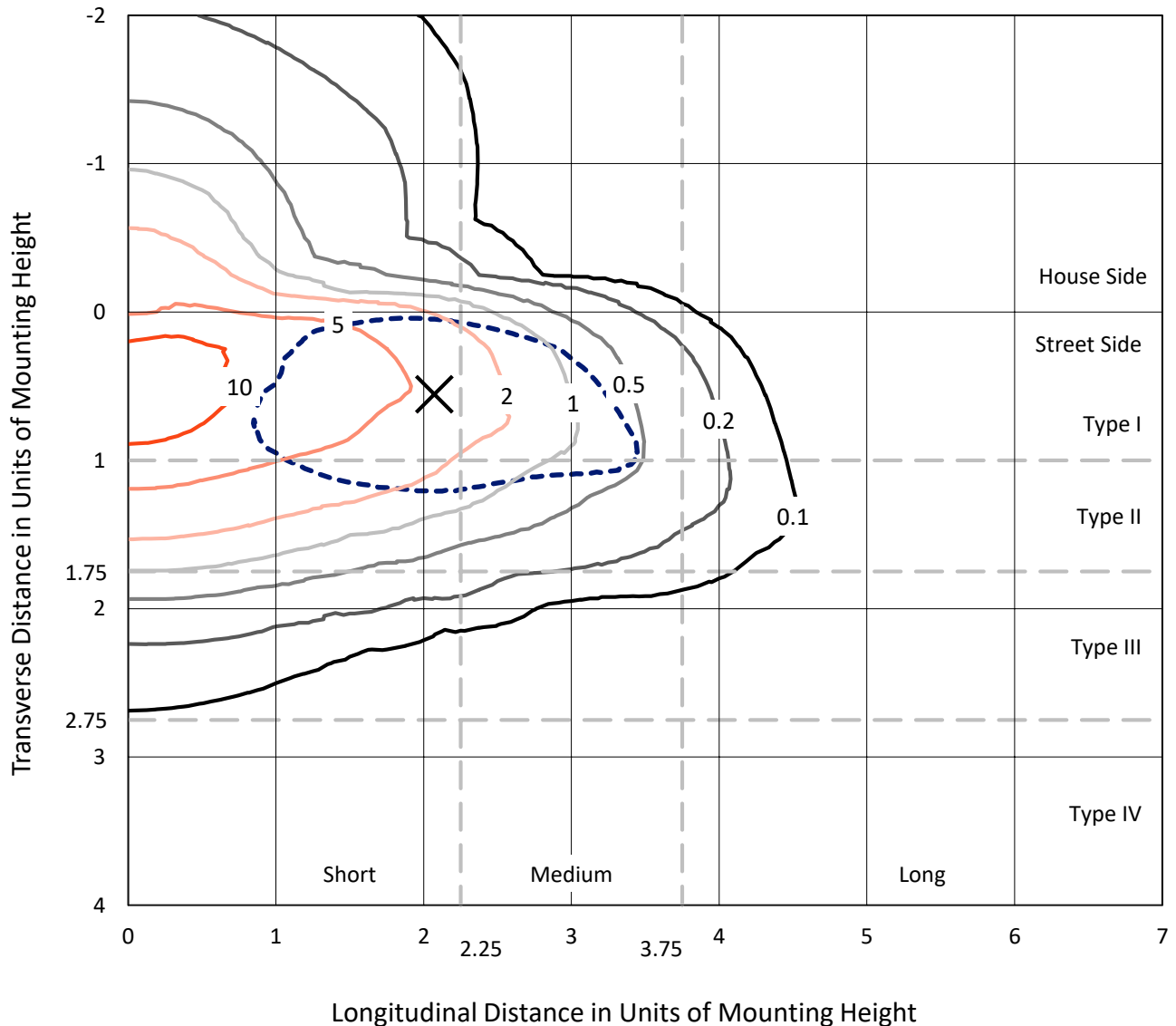


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Iso-Footcandle Lines of Horizontal Illumination

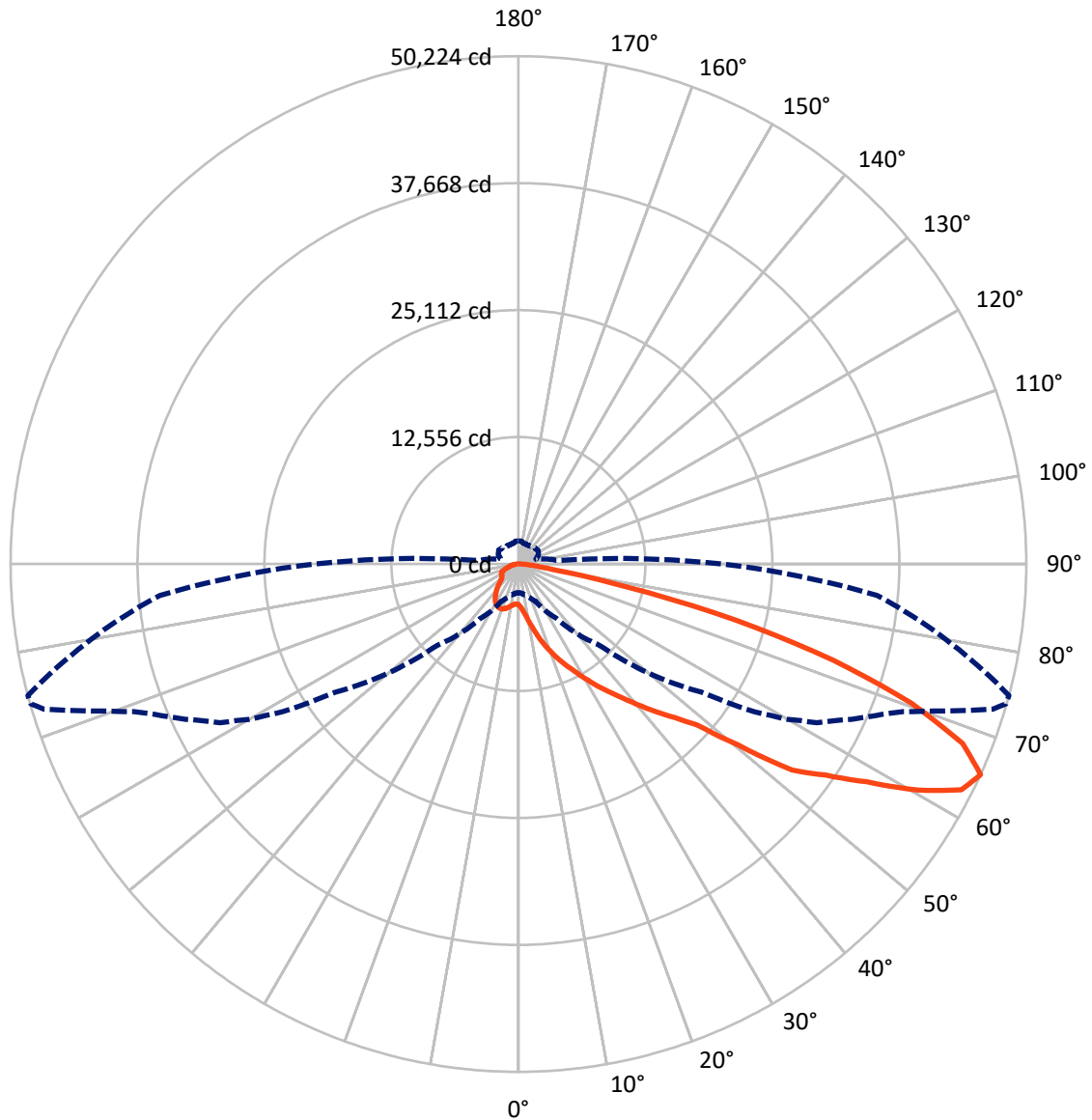
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 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	7651.2	0.0	7651.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	41974.8	0.0	41974.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	49626.0	0.0	49626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	1.0
10°-20°	1947.8	3.9
20°-30°	3996.2	8.1
30°-40°	6723.3	13.5
40°-50°	9289.7	18.7
50°-60°	11596.4	23.4
60°-70°	10435.5	21.0
70°-80°	4374.5	8.8
80°-90°	764.2	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°	49626.0	100.0
0°-180°	49626.0	100.0



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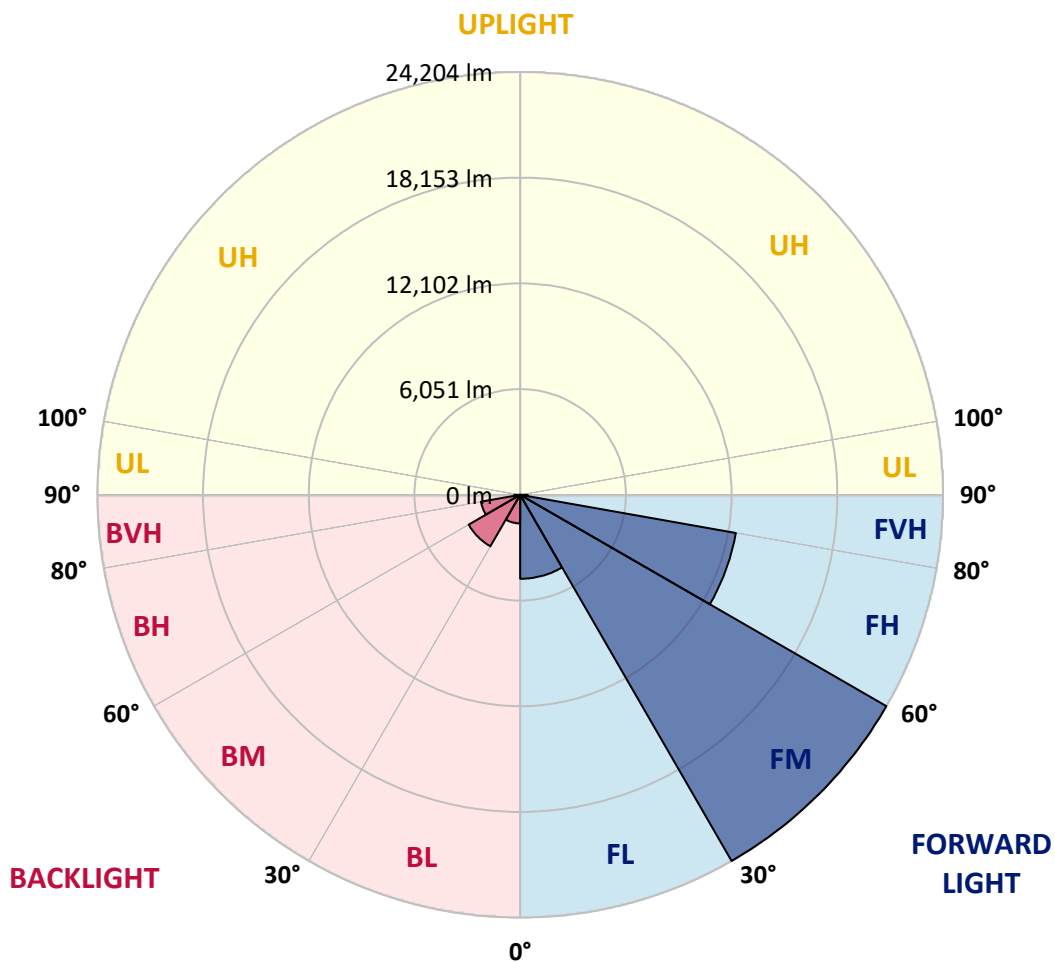
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4806.1	9.7			
FM	(30°-60°)	24203.8	48.8			
FH	(60°-80°)	12535.4	25.3			G5
FVH	(80°-90°)	429.6	0.9			G3/500
BL	(0°-30°)	1636.3	3.3	B3/2500		
BM	(30°-60°)	3405.6	6.9	B3/5000		
BH	(60°-80°)	2274.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	334.7	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°	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1
2.5°	5120.6	5064.2	5078.3	4984.4	4869.3	4718.9	4552.2	4549.8	4552.2	4535.7	4474.7
5°	7100.7	7032.6	7006.8	6795.4	6485.3	6043.7	5564.5	5512.9	5491.7	5437.7	5313.2
7.5°	8545.3	8507.7	8467.8	8308.1	8026.2	7532.9	6889.3	6778.9	6673.2	6647.4	6506.5
10°	9477.8	9468.4	9383.9	9341.6	9165.4	8737.9	8110.8	8005.1	7890.0	7850.0	7702.0
12.5°	10215.4	10213.0	10173.1	10184.8	10032.2	9722.1	9181.9	9085.5	9001.0	8878.8	8773.1
15°	10725.1	10727.4	10786.2	10851.9	10828.4	10619.4	10112.0	10069.7	9996.9	9912.4	9787.9
17.5°	11143.2	11154.9	11216.0	11335.8	11465.0	11448.5	11046.9	11011.6	10948.2	10833.1	10767.4
20°	12087.4	12132.1	12014.6	12014.6	12028.7	12092.1	11899.5	11871.3	11782.1	11721.0	11669.3
22.5°	13682.3	13734.0	13468.6	13198.5	12933.0	12740.4	12547.8	12583.1	12522.0	12479.7	12449.2
25°	15754.1	15794.0	15364.2	14908.5	14368.2	13663.6	13186.7	13165.6	13132.7	13106.9	13092.8
27.5°	17703.7	17720.1	17313.7	16646.7	16019.5	15007.1	13835.0	13809.2	13769.3	13719.9	13677.6
30°	19371.4	19366.7	18948.6	18312.0	17640.2	16519.8	14819.2	14739.3	14621.9	14488.0	14384.7
32.5°	20816.0	20808.9	20350.9	19690.8	18986.2	18018.4	16167.5	16003.1	15819.8	15559.1	15401.7
35°	21952.8	21948.1	21515.9	20827.7	20019.7	19430.1	17713.1	17511.1	17278.5	16928.5	16686.6
37.5°	22382.7	22382.7	22140.7	21671.0	20956.9	20552.9	19430.1	19185.8	18936.8	18539.9	18267.4
40°	22131.3	22136.0	22187.7	22100.8	21753.2	21443.1	21032.1	20886.4	20672.7	20315.6	20031.4
42.5°	21288.1	21313.9	21656.9	22077.3	22251.1	22201.8	22453.1	22387.4	22237.0	21962.2	21736.7
45°	20219.3	20299.2	20675.0	21468.9	22389.7	22857.1	23644.0	23651.1	23622.9	23474.9	23301.1
47.5°	18751.3	18864.0	19359.6	20433.1	22065.6	23493.7	24853.7	24917.1	24975.9	24879.6	24799.7
50°	16801.7	16935.6	17677.8	19101.3	21405.5	24153.7	27139.2	27425.8	27693.5	27660.6	27714.7
52.5°	14713.5	14870.9	15779.9	17365.4	20271.0	24306.4	28600.2	29067.6	29535.1	29917.9	30324.3
55°	12829.7	12745.1	13654.2	15324.2	18406.0	23618.2	29913.2	30477.0	30998.4	31468.2	31952.1
57.5°	10276.4	10415.0	11326.4	12977.7	15937.3	21675.7	30817.6	31642.0	32391.3	33168.8	33854.7
60°	7511.8	7650.4	8639.3	10316.4	13257.2	18730.1	30127.0	31376.6	32576.9	33767.8	34698.0
62.5°	4535.7	4639.1	5510.5	7107.8	10222.4	15237.3	27049.9	28689.5	30455.8	31879.3	33305.1
65°	2823.4	2882.1	3203.9	4082.4	6565.2	11375.7	22100.8	23888.3	25790.9	27597.2	29079.4
67.5°	2311.3	2332.5	2391.2	2579.1	3605.6	7417.8	16449.3	18032.5	19749.6	21497.1	23146.1
70°	2078.8	2064.7	2064.7	2076.4	2311.3	3988.4	10769.7	11800.9	13231.4	14751.1	16259.1
72.5°	1876.8	1862.7	1836.8	1801.6	1886.2	2433.5	5566.9	6344.4	7375.5	8726.2	10170.7
75°	1686.5	1667.7	1637.2	1592.6	1651.3	1836.8	2673.0	2999.5	3502.2	4221.0	5026.6
77.5°	1489.2	1465.7	1437.5	1404.6	1479.8	1428.1	1566.7	1684.2	1876.8	2107.0	2410.0
80°	1266.1	1244.9	1235.5	1219.1	1308.3	1087.5	1106.3	1179.1	1291.9	1416.4	1557.3
82.5°	991.2	991.2	1028.8	1035.9	1134.5	782.2	826.8	890.2	949.0	1014.7	1080.5
85°	653.0	657.7	784.5	833.9	894.9	526.2	620.1	641.2	688.2	725.8	754.0
87.5°	204.4	220.8	479.2	530.9	514.4	298.3	380.5	389.9	422.8	448.6	472.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1
2.5°	4474.7	4446.5	4420.6	4418.3	4399.5	4373.7	4383.0	4343.1	4345.5	4324.3	4300.8
5°	5261.5	5242.7	5148.8	5123.0	5052.5	5007.9	5000.8	4906.9	4895.1	4841.1	4782.4
7.5°	6393.7	6332.6	6201.1	6137.7	6017.9	5928.6	5886.3	5761.9	5700.8	5559.8	5496.4
10°	7579.9	7502.4	7340.3	7251.1	7136.0	6992.7	6915.2	6734.3	6663.8	6534.6	6379.6
12.5°	8679.2	8601.7	8434.9	8366.8	8214.1	8061.4	7976.9	7772.5	7680.9	7474.2	7352.1
15°	9696.3	9618.7	9473.1	9402.6	9250.0	9125.5	9012.7	8810.7	8702.7	8510.1	8350.3
17.5°	10682.8	10600.6	10473.7	10410.3	10262.3	10135.5	10013.4	9823.1	9712.7	9520.1	9376.8
20°	11598.9	11537.8	11446.2	11361.6	11213.6	11098.6	10952.9	10788.5	10628.8	10487.8	10351.6
22.5°	12397.5	12374.0	12275.4	12237.8	12110.9	12012.3	11885.4	11723.4	11608.3	11429.7	11302.9
25°	13085.7	13078.7	13031.7	13020.0	12930.7	12836.7	12808.6	12674.7	12569.0	12411.6	12280.1
27.5°	13677.6	13684.7	13672.9	13705.8	13682.3	13640.1	13642.4	13597.8	13536.7	13405.2	13290.1
30°	14335.3	14297.8	14318.9	14365.9	14380.0	14384.7	14462.2	14488.0	14483.3	14396.4	14340.0
32.5°	15265.5	15176.2	15094.0	15087.0	15134.0	15152.8	15284.3	15352.4	15411.1	15432.3	15441.7
35°	16451.7	16273.2	16101.7	16010.1	15930.2	15951.4	16045.3	16155.7	16284.9	16374.2	16479.9
37.5°	17945.6	17727.2	17424.1	17208.0	17154.0	17036.6	17097.6	17184.6	17311.4	17450.0	17633.2
40°	19756.6	19425.4	19084.8	18798.2	18643.2	18427.1	18424.8	18408.3	18485.8	18615.0	18873.4
42.5°	21499.5	21205.9	20844.1	20543.5	20341.5	20052.6	19993.8	19841.2	19876.4	19989.1	20240.5
45°	23132.0	22890.0	22669.2	22321.6	22150.1	21837.7	21739.1	21558.2	21457.2	21508.9	21760.2
47.5°	24712.8	24557.8	24327.6	24102.1	23970.5	23691.0	23564.2	23435.0	23305.8	23301.1	23564.2
50°	27794.5	27712.3	27439.9	27205.0	27268.4	26925.4	26946.6	26598.9	26756.3	26775.1	27327.1
52.5°	30690.7	30977.3	31179.3	31425.9	31585.7	31616.2	31721.9	31879.3	32069.5	32445.4	32957.4
55°	32349.1	32708.4	32917.5	33105.4	33415.5	33481.2	33657.4	33866.4	34033.2	34456.0	34890.6
57.5°	34319.8	34986.9	35311.0	35609.3	36027.4	36187.2	36480.8	36708.6	36924.7	37425.0	37951.2
60°	35534.2	36346.9	37006.9	37479.1	38002.9	38378.7	38822.6	39179.7	39687.0	40286.0	41070.5
62.5°	34568.8	35762.0	36638.1	37448.5	38160.2	38879.0	39515.5	40182.6	40953.1	41859.8	43076.5
65°	30723.6	31938.0	33438.9	34279.9	35221.8	36330.4	37298.2	38378.7	39428.6	40748.7	42548.0
67.5°	24733.9	26145.6	27832.1	28680.1	29762.9	31000.8	32086.0	33406.1	34632.2	36231.8	38456.2
70°	17828.2	19653.2	21072.0	21957.5	23221.2	24496.7	25544.3	27080.5	28095.2	29734.7	32034.3
72.5°	11288.8	12728.7	14466.9	15582.6	16705.4	17997.3	19068.4	20393.2	21339.8	22833.7	24917.1
75°	6069.6	7131.3	8658.0	9717.4	10920.0	12024.0	13278.3	14166.2	14866.2	16047.7	17738.9
77.5°	2844.5	3490.5	4263.3	5078.3	5893.4	6743.7	7570.5	8289.3	8589.9	9266.4	10264.7
80°	1726.4	1935.5	2161.0	2412.3	2752.9	3027.7	3391.8	3654.9	3673.7	3887.4	4192.8
82.5°	1153.3	1230.8	1298.9	1362.4	1449.3	1517.4	1594.9	1686.5	1724.1	1773.4	1872.1
85°	786.9	824.5	838.6	878.5	869.1	892.6	923.1	953.7	970.1	967.7	1012.4
87.5°	483.9	502.7	512.1	521.5	514.4	505.0	519.1	535.5	540.2	526.2	530.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1
2.5°	4305.5	4284.4	4263.3	4249.2	4244.5	4120.0	4065.9	4030.7	3955.5	3894.5	3845.1
5°	4749.5	4704.8	4669.6	4627.3	4603.8	4289.1	4174.0	4094.1	3962.6	3885.1	3814.6
7.5°	5463.5	5339.1	5266.2	5184.0	5113.6	4545.1	4354.9	4230.4	4047.2	3943.8	3863.9
10°	6273.9	6144.7	6029.6	5902.8	5792.4	4885.7	4608.5	4415.9	4174.0	4040.1	3934.4
12.5°	7178.2	7051.4	6905.8	6743.7	6602.8	5317.9	4932.7	4657.9	4326.7	4148.2	4000.2
15°	8247.0	8023.8	7847.7	7659.8	7495.3	5834.7	5310.9	4930.3	4488.7	4246.8	4049.5
17.5°	9240.6	9005.7	8766.1	8601.7	8411.4	6414.8	5691.4	5207.5	4622.6	4310.2	4058.9
20°	10210.7	9954.6	9747.9	9527.1	9327.5	7016.2	6097.7	5451.8	4709.5	4312.6	4000.2
22.5°	11065.7	10905.9	10675.8	10436.2	10234.2	7617.5	6478.3	5658.5	4742.4	4258.6	3896.8
25°	12038.1	11869.0	11587.1	11385.1	11159.6	8230.5	6851.7	5818.2	4723.6	4157.6	3737.1
27.5°	13076.3	12888.4	12599.5	12388.1	12115.6	8867.1	7194.7	5933.3	4653.2	3993.1	3523.4
30°	14159.2	13987.7	13703.5	13489.7	13214.9	9541.2	7577.6	6010.8	4512.2	3765.3	3274.4
32.5°	15321.9	15178.6	14896.7	14673.6	14380.0	10271.7	7934.6	6034.3	4298.5	3495.2	3011.3
35°	16425.9	16327.2	16090.0	15880.9	15575.6	10962.3	8312.8	6022.6	4044.8	3199.2	2771.7
37.5°	17668.4	17609.7	17492.3	17226.8	16853.4	11899.5	8766.1	5973.3	3734.8	2905.6	2588.5
40°	18993.2	18997.9	18871.1	18690.2	18342.6	13036.4	9306.3	5876.9	3396.5	2647.2	2421.7
42.5°	20395.5	20468.3	20407.2	20278.1	19944.5	14182.7	9952.3	5759.5	3067.7	2395.9	2257.3
45°	22002.1	22091.4	22185.4	21995.1	21671.0	15695.4	10802.6	5606.8	2713.0	2186.8	2144.5
47.5°	23855.4	23996.4	24080.9	24083.3	23759.1	17569.8	12183.7	5515.2	2398.2	2045.9	2090.5
50°	27766.4	27811.0	28010.6	28358.3	28109.3	21908.2	14596.1	5458.8	2184.5	1959.0	2050.6
52.5°	33401.4	33892.3	34237.6	34214.1	33875.8	24663.5	15925.5	5167.6	2057.6	1926.1	2031.8
55°	35696.2	36309.3	36948.2	37117.3	36854.2	27014.7	17182.2	4876.3	1996.6	1949.6	2038.8
57.5°	38754.5	39788.0	40664.2	41032.9	40652.4	30023.6	18835.8	4723.6	1977.8	2013.0	2083.5
60°	42327.2	43605.0	44755.9	45418.3	45418.3	33481.2	20550.5	4660.2	1951.9	2107.0	2158.6
62.5°	44622.1	46498.8	48237.0	49207.1	49178.9	35888.8	21311.6	4444.1	1893.2	2172.7	2262.0
65°	44631.5	46862.9	49077.9	50167.8	50224.2	35592.9	20054.9	3925.0	1785.2	2182.1	2365.3
67.5°	40910.8	43290.2	45871.7	47090.8	47372.6	32764.8	17360.7	3227.4	1609.0	2088.2	2402.9
70°	34552.3	36875.4	39510.9	40708.8	41209.1	27930.8	13983.0	2487.5	1383.5	1881.5	2325.4
72.5°	27221.4	29499.8	31334.3	32210.5	32600.4	21349.2	10182.5	1879.1	1134.5	1585.5	2116.4
75°	19272.7	20982.7	21957.5	22152.5	22213.5	12869.6	6187.0	1397.6	934.9	1233.2	1787.5
77.5°	10877.8	11610.6	11530.8	11617.7	10894.2	4967.9	2694.2	1000.6	770.4	937.2	1385.9
80°	4246.8	4378.4	4112.9	4030.7	3697.2	1848.6	1188.5	697.6	615.4	709.4	970.1
82.5°	1872.1	1933.1	1876.8	1890.9	1808.7	953.7	711.7	505.0	469.8	519.1	643.6
85°	1031.2	1050.0	1045.3	1075.8	1031.2	380.5	338.2	310.1	328.8	352.3	413.4
87.5°	502.7	507.4	490.9	516.8	500.3	192.6	166.8	176.2	192.6	197.3	197.3
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):

	135°	145°	155°	165°	175°	180°
0°	4033.1	4033.1	4033.1	4033.1	4033.1	4033.1
2.5°	3809.9	3791.1	3793.5	3788.8	3779.4	3779.4
5°	3777.0	3758.2	3758.2	3753.5	3741.8	3744.1
7.5°	3809.9	3779.4	3767.6	3751.2	3734.8	3734.8
10°	3847.5	3793.5	3760.6	3732.4	3711.3	3711.3
12.5°	3875.7	3791.1	3737.1	3699.5	3678.4	3678.4
15°	3885.1	3774.7	3699.5	3654.9	3636.1	3633.7
17.5°	3854.5	3711.3	3619.7	3568.0	3544.5	3537.4
20°	3760.6	3596.2	3485.8	3427.0	3394.2	3382.4
22.5°	3619.7	3431.7	3302.6	3241.5	3199.2	3192.2
25°	3422.3	3220.3	3093.5	3034.8	3011.3	3004.2
27.5°	3192.2	3004.2	2896.2	2858.6	2837.5	2835.1
30°	2973.7	2814.0	2734.1	2705.9	2680.1	2675.4
32.5°	2769.4	2668.4	2637.8	2597.9	2536.8	2529.8
35°	2623.7	2614.3	2593.2	2503.9	2428.8	2407.6
37.5°	2534.5	2621.4	2513.3	2337.2	2283.1	2278.4
40°	2482.8	2548.6	2363.0	2301.9	2306.6	2301.9
42.5°	2365.3	2433.5	2367.7	2339.5	2358.3	2363.0
45°	2247.9	2323.1	2402.9	2384.1	2428.8	2428.8
47.5°	2182.1	2294.9	2400.6	2400.6	2466.3	2489.8
50°	2107.0	2271.4	2363.0	2395.9	2447.6	2428.8
52.5°	2102.3	2231.5	2309.0	2367.7	2391.2	2370.0
55°	2109.3	2198.6	2254.9	2320.7	2348.9	2351.2
57.5°	2118.7	2179.8	2217.4	2247.9	2332.5	2332.5
60°	2142.2	2163.3	2184.5	2200.9	2311.3	2313.7
62.5°	2179.8	2146.9	2142.2	2158.6	2299.6	2290.2
65°	2238.5	2123.4	2088.2	2104.6	2287.8	2259.6
67.5°	2318.4	2088.2	2020.1	2031.8	2278.4	2217.4
70°	2391.2	2031.8	1935.5	1923.7	2189.2	2081.1
72.5°	2398.2	1966.0	1818.0	1782.8	1902.6	1799.3
75°	2280.8	1921.4	1688.9	1585.5	1571.4	1557.3
77.5°	2055.3	1895.6	1538.5	1376.5	1348.3	1357.7
80°	1719.4	1799.3	1357.7	1165.1	1317.7	1301.3
82.5°	1284.8	1587.9	1153.3	1031.2	1028.8	909.0
85°	714.1	1237.9	939.6	772.8	537.9	521.5
87.5°	199.7	688.2	657.7	436.9	298.3	310.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)