

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: P192203

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192203
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-05-LED-E1-T2R-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 25041 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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

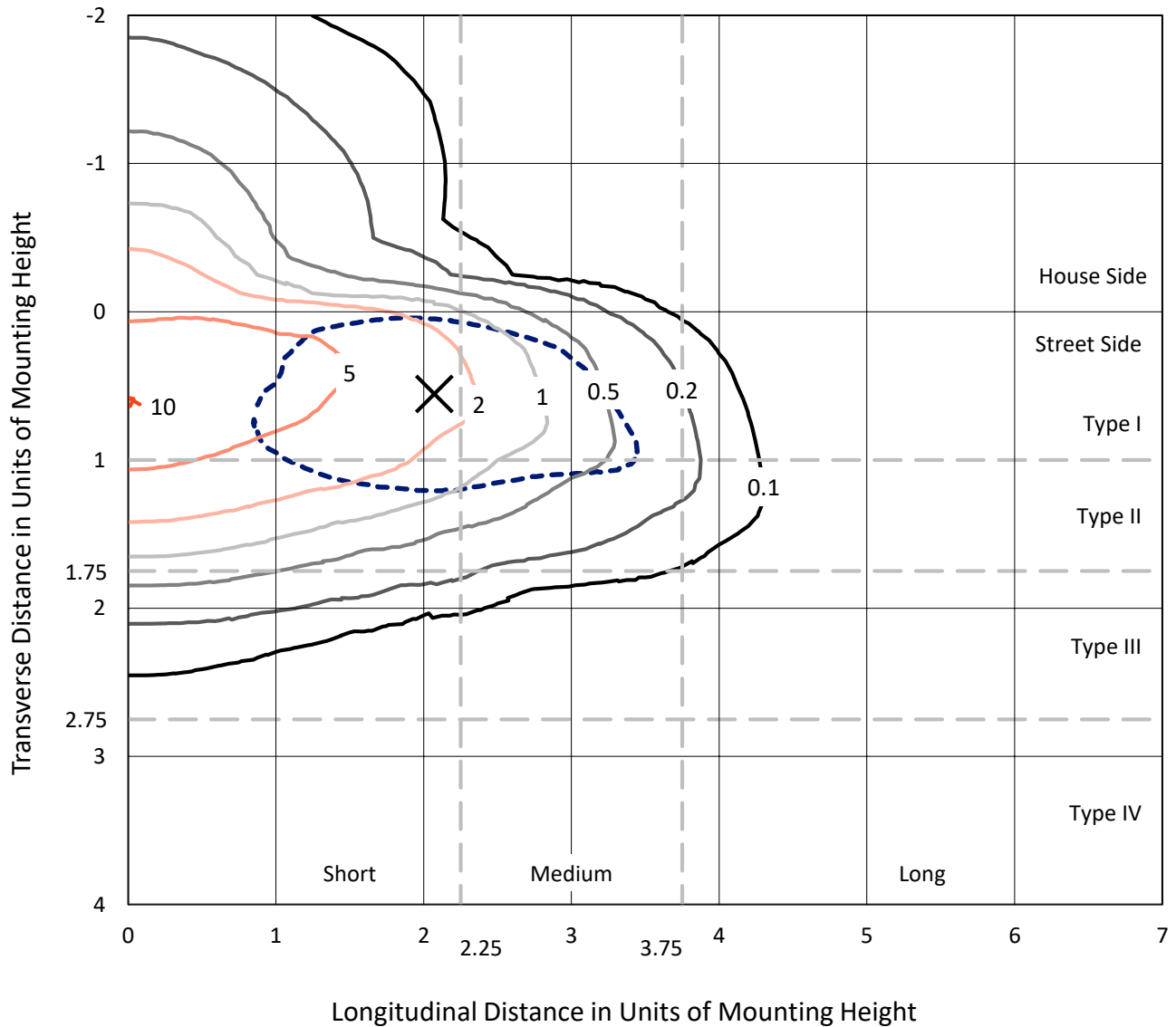


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Iso-Footcandle Lines of Horizontal Illumination

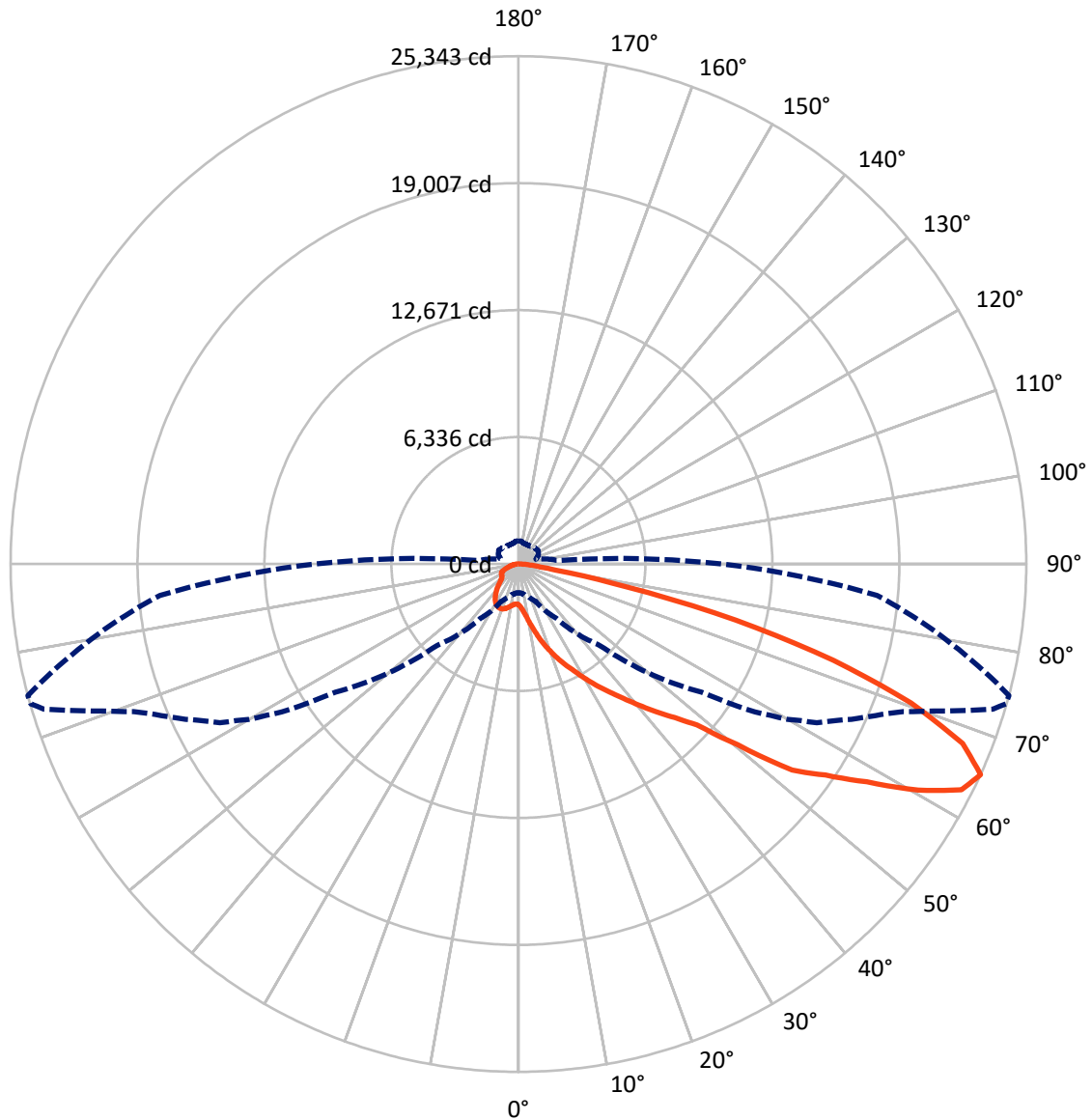
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3860.7	0.0	3860.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	21180.3	0.0	21180.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	25041.0	0.0	25041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	1.0
10°-20°	982.8	3.9
20°-30°	2016.4	8.1
30°-40°	3392.5	13.5
40°-50°	4687.5	18.7
50°-60°	5851.5	23.4
60°-70°	5265.7	21.0
70°-80°	2207.3	8.8
80°-90°	385.6	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°	25041.0	100.0
0°-180°	25041.0	100.0

Coefficient of Utilization



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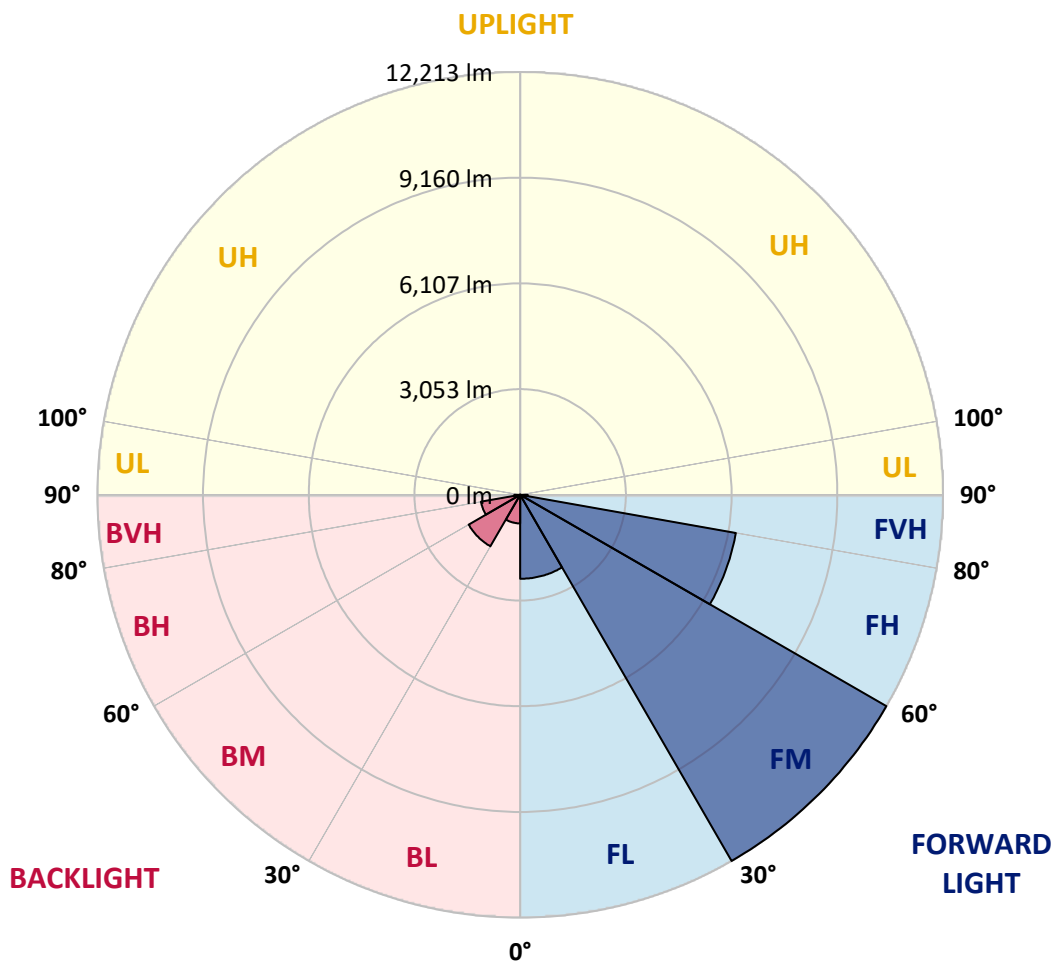
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.1	9.7			
FM (30°-60°)	12213.1	48.8			
FH (60°-80°)	6325.3	25.3			G3/7500
FVH (80°-90°)	216.8	0.9			G2/225
BL (0°-30°)	825.7	3.3	B2/1000		
BM (30°-60°)	1718.5	6.9	B2/2500		
BH (60°-80°)	1147.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	168.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2583.8	2555.4	2562.5	2515.1	2457.0	2381.2	2297.0	2295.8	2297.0	2288.7	2257.9
5°	3583.0	3548.6	3535.6	3428.9	3272.5	3049.6	2807.8	2781.8	2771.1	2743.8	2681.0
7.5°	4311.9	4292.9	4272.8	4192.2	4050.0	3801.1	3476.3	3420.6	3367.3	3354.2	3283.1
10°	4782.5	4777.7	4735.0	4713.7	4624.8	4409.1	4092.6	4039.3	3981.2	3961.1	3886.4
12.5°	5154.6	5153.4	5133.3	5139.2	5062.2	4905.7	4633.1	4584.5	4541.8	4480.2	4426.9
15°	5411.8	5413.0	5442.6	5475.8	5464.0	5358.5	5102.5	5081.1	5044.4	5001.7	4938.9
17.5°	5622.8	5628.7	5659.5	5720.0	5785.2	5776.9	5574.2	5556.4	5524.4	5466.3	5433.1
20°	6099.3	6121.8	6062.5	6062.5	6069.6	6101.6	6004.4	5990.2	5945.2	5914.4	5888.3
22.5°	6904.0	6930.1	6796.2	6659.9	6525.9	6428.8	6331.6	6349.3	6318.5	6297.2	6281.8
25°	7949.4	7969.6	7752.7	7522.7	7250.1	6894.6	6653.9	6643.3	6626.7	6613.6	6606.5
27.5°	8933.2	8941.5	8736.4	8399.8	8083.3	7572.5	6981.1	6968.0	6947.9	6923.0	6901.7
30°	9774.7	9772.3	9561.3	9240.1	8901.2	8335.8	7477.7	7437.4	7378.1	7310.6	7258.4
32.5°	10503.6	10500.1	10268.9	9935.9	9580.3	9092.0	8158.0	8075.1	7982.6	7851.0	7771.6
35°	11077.3	11074.9	10856.8	10509.5	10101.8	9804.3	8937.9	8836.0	8718.6	8542.0	8420.0
37.5°	11294.2	11294.2	11172.1	10935.0	10574.7	10370.9	9804.3	9681.1	9555.4	9355.1	9217.6
40°	11167.3	11169.7	11195.8	11151.9	10976.5	10820.1	10612.7	10539.2	10431.3	10251.2	10107.7
42.5°	10741.8	10754.9	10927.9	11140.1	11227.8	11202.9	11329.7	11296.5	11220.7	11082.0	10968.2
45°	10202.6	10242.9	10432.5	10833.1	11297.7	11533.6	11930.6	11934.2	11920.0	11845.3	11757.6
47.5°	9461.8	9518.7	9768.8	10310.4	11134.2	11854.8	12541.0	12573.0	12602.7	12554.1	12513.8
50°	8478.0	8545.6	8920.1	9638.4	10801.1	12187.8	13694.3	13838.9	13974.0	13957.4	13984.7
52.5°	7424.4	7503.8	7962.5	8762.5	10228.6	12264.9	14431.5	14667.4	14903.2	15096.4	15301.5
55°	6473.8	6431.1	6889.8	7732.5	9287.6	11917.6	15094.1	15378.5	15641.6	15878.7	16122.8
57.5°	5185.4	5255.4	5715.2	6548.5	8041.9	10937.4	15550.4	15966.4	16344.5	16736.8	17082.9
60°	3790.4	3860.3	4359.3	5205.6	6689.5	9451.1	15201.9	15832.5	16438.1	17039.0	17508.4
62.5°	2288.7	2340.9	2780.6	3586.5	5158.2	7688.7	13649.2	14476.5	15367.8	16086.1	16805.5
65°	1424.7	1454.3	1616.7	2060.0	3312.8	5740.1	11151.9	12053.9	13014.0	13925.4	14673.3
67.5°	1166.3	1176.9	1206.6	1301.4	1819.3	3743.0	8300.2	9099.1	9965.5	10847.3	11679.4
70°	1048.9	1041.8	1041.8	1047.8	1166.3	2012.5	5434.3	5954.7	6676.5	7443.3	8204.2
72.5°	947.0	939.9	926.9	909.1	951.7	1227.9	2809.0	3201.3	3721.7	4403.2	5132.1
75°	851.0	841.5	826.1	803.6	833.2	926.9	1348.8	1513.6	1767.2	2129.9	2536.4
77.5°	751.4	739.6	725.4	708.8	746.7	720.6	790.6	849.8	947.0	1063.2	1216.1
80°	638.8	628.2	623.4	615.1	660.2	548.8	558.2	595.0	651.9	714.7	785.8
82.5°	500.2	500.2	519.1	522.7	572.5	394.7	417.2	449.2	478.8	512.0	545.2
85°	329.5	331.9	395.9	420.8	451.6	265.5	312.9	323.6	347.3	366.2	380.5
87.5°	103.1	111.4	241.8	267.9	259.6	150.5	192.0	196.8	213.3	226.4	238.2
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°	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2257.9	2243.7	2230.6	2229.4	2220.0	2206.9	2211.7	2191.5	2192.7	2182.0	2170.2
5°	2654.9	2645.5	2598.1	2585.0	2549.5	2526.9	2523.4	2476.0	2470.0	2442.8	2413.2
7.5°	3226.2	3195.4	3129.0	3097.0	3036.6	2991.6	2970.2	2907.4	2876.6	2805.5	2773.5
10°	3824.8	3785.7	3703.9	3658.8	3600.8	3528.5	3489.4	3398.1	3362.5	3297.3	3219.1
12.5°	4379.5	4340.4	4256.2	4221.8	4144.8	4067.8	4025.1	3922.0	3875.7	3771.4	3709.8
15°	4892.7	4853.6	4780.1	4744.5	4667.5	4604.7	4547.8	4445.8	4391.3	4294.1	4213.5
17.5°	5390.5	5349.0	5285.0	5253.0	5178.3	5114.3	5052.7	4956.7	4901.0	4803.8	4731.5
20°	5852.7	5821.9	5775.7	5733.0	5658.3	5600.3	5526.8	5443.8	5363.2	5292.1	5223.4
22.5°	6255.7	6243.9	6194.1	6175.1	6111.1	6061.3	5997.3	5915.5	5857.5	5767.4	5703.4
25°	6603.0	6599.4	6575.7	6569.8	6524.8	6477.3	6463.1	6395.6	6342.2	6262.8	6196.4
27.5°	6901.7	6905.2	6899.3	6915.9	6904.0	6882.7	6883.9	6861.4	6830.5	6764.2	6706.1
30°	7233.5	7214.6	7225.2	7248.9	7256.1	7258.4	7297.5	7310.6	7308.2	7264.3	7235.9
32.5°	7702.9	7657.8	7616.4	7612.8	7636.5	7646.0	7712.4	7746.7	7776.4	7787.0	7791.8
35°	8301.4	8211.4	8124.8	8078.6	8038.3	8049.0	8096.4	8152.1	8217.3	8262.3	8315.7
37.5°	9055.2	8945.0	8792.1	8683.1	8655.8	8596.6	8627.4	8671.2	8735.2	8805.2	8897.6
40°	9969.1	9802.0	9630.1	9485.5	9407.3	9298.2	9297.0	9288.7	9327.9	9393.0	9523.4
42.5°	10848.5	10700.4	10517.8	10366.1	10264.2	10118.4	10088.8	10011.7	10029.5	10086.4	10213.2
45°	11672.3	11550.2	11438.8	11263.4	11176.8	11019.2	10969.4	10878.1	10827.2	10853.3	10980.1
47.5°	12469.9	12391.7	12275.5	12161.8	12095.4	11954.3	11890.3	11825.2	11760.0	11757.6	11890.3
50°	14025.0	13983.5	13846.0	13727.5	13759.5	13586.4	13597.1	13421.7	13501.1	13510.6	13789.1
52.5°	15486.4	15631.0	15732.9	15857.4	15937.9	15953.4	16006.7	16086.1	16182.1	16371.7	16630.1
55°	16323.2	16504.5	16610.0	16704.8	16861.3	16894.4	16983.3	17088.8	17173.0	17386.3	17605.6
57.5°	17317.6	17654.2	17817.7	17968.3	18179.2	18259.8	18408.0	18523.0	18632.0	18884.5	19150.0
60°	17930.3	18340.4	18673.5	18911.7	19176.0	19365.7	19589.7	19769.8	20025.8	20328.1	20724.0
62.5°	17443.2	18045.3	18487.4	18896.3	19255.4	19618.1	19939.3	20275.9	20664.7	21122.2	21736.2
65°	15503.0	16115.7	16873.1	17297.4	17772.7	18332.1	18820.5	19365.7	19895.5	20561.6	21469.5
67.5°	12480.6	13192.9	14043.9	14471.8	15018.2	15642.8	16190.4	16856.5	17475.2	18282.4	19404.8
70°	8996.0	9916.9	10632.8	11079.6	11717.3	12360.9	12889.5	13664.7	14176.7	15004.0	16164.3
72.5°	5696.3	6422.8	7299.9	7862.9	8429.4	9081.3	9621.8	10290.3	10767.9	11521.7	12573.0
75°	3062.7	3598.4	4368.8	4903.3	5510.2	6067.3	6700.2	7148.2	7501.4	8097.6	8950.9
77.5°	1435.3	1761.3	2151.2	2562.5	2973.8	3402.8	3820.0	4182.7	4334.4	4675.8	5179.5
80°	871.2	976.6	1090.4	1217.2	1389.1	1527.8	1711.5	1844.2	1853.7	1961.6	2115.7
82.5°	582.0	621.1	655.4	687.4	731.3	765.7	804.8	851.0	870.0	894.9	944.6
85°	397.1	416.0	423.1	443.3	438.5	450.4	465.8	481.2	489.5	488.3	510.8
87.5°	244.2	253.6	258.4	263.1	259.6	254.8	261.9	270.2	272.6	265.5	267.9
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°	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2172.5	2161.9	2151.2	2144.1	2141.7	2078.9	2051.7	2033.9	1995.9	1965.1	1940.2
5°	2396.6	2374.0	2356.3	2334.9	2323.1	2164.3	2106.2	2065.9	1999.5	1960.4	1924.8
7.5°	2756.9	2694.1	2657.3	2615.8	2580.3	2293.4	2197.4	2134.6	2042.2	1990.0	1949.7
10°	3165.8	3100.6	3042.5	2978.5	2922.8	2465.3	2325.4	2228.3	2106.2	2038.6	1985.3
12.5°	3622.1	3558.1	3484.6	3402.8	3331.7	2683.4	2489.0	2350.3	2183.2	2093.1	2018.5
15°	4161.4	4048.8	3959.9	3865.1	3782.1	2944.1	2679.8	2487.8	2265.0	2142.9	2043.4
17.5°	4662.7	4544.2	4423.3	4340.4	4244.4	3236.9	2871.8	2627.7	2332.6	2174.9	2048.1
20°	5152.2	5023.1	4918.8	4807.3	4706.6	3540.3	3076.9	2750.9	2376.4	2176.1	2018.5
22.5°	5583.7	5503.1	5386.9	5266.0	5164.1	3843.7	3268.9	2855.2	2393.0	2148.8	1966.3
25°	6074.4	5989.0	5846.8	5744.9	5631.1	4153.1	3457.4	2935.8	2383.5	2097.9	1885.7
27.5°	6598.2	6503.4	6357.6	6251.0	6113.5	4474.3	3630.4	2993.9	2348.0	2014.9	1777.9
30°	7144.6	7058.1	6914.7	6806.8	6668.2	4814.5	3823.6	3033.0	2276.8	1899.9	1652.2
32.5°	7731.3	7659.0	7516.8	7404.2	7256.1	5183.1	4003.7	3044.9	2169.0	1763.6	1519.5
35°	8288.4	8238.6	8118.9	8013.4	7859.3	5531.5	4194.6	3039.0	2041.0	1614.3	1398.6
37.5°	8915.4	8885.8	8826.5	8692.6	8504.1	6004.4	4423.3	3014.1	1884.5	1466.1	1306.1
40°	9583.9	9586.2	9522.2	9431.0	9255.6	6578.1	4695.9	2965.5	1713.9	1335.8	1222.0
42.5°	10291.5	10328.2	10297.4	10232.2	10063.9	7156.5	5021.9	2906.2	1547.9	1208.9	1139.0
45°	11102.2	11147.2	11194.6	11098.6	10935.0	7919.8	5450.9	2829.2	1369.0	1103.5	1082.1
47.5°	12037.3	12108.4	12151.1	12152.3	11988.7	8865.6	6147.8	2782.9	1210.1	1032.3	1054.9
50°	14010.7	14033.3	14134.0	14309.4	14183.8	11054.8	7365.1	2754.5	1102.3	988.5	1034.7
52.5°	16854.1	17101.9	17276.1	17264.2	17093.6	12445.0	8035.9	2607.5	1038.3	971.9	1025.2
55°	18012.1	18321.5	18643.9	18729.2	18596.4	13631.5	8670.0	2460.6	1007.5	983.8	1028.8
57.5°	19555.3	20076.8	20518.9	20705.0	20513.0	15149.8	9504.5	2383.5	998.0	1015.8	1051.3
60°	21358.1	22002.8	22583.6	22917.8	22917.8	16894.4	10369.7	2351.5	984.9	1063.2	1089.2
62.5°	22516.0	23463.0	24340.1	24829.6	24815.4	18109.3	10753.7	2242.5	955.3	1096.3	1141.4
65°	22520.8	23646.8	24764.4	25314.4	25342.8	17960.0	10119.6	1980.5	900.8	1101.1	1193.5
67.5°	20643.4	21844.0	23146.6	23761.7	23904.0	16532.9	8760.1	1628.5	811.9	1053.7	1212.5
70°	17434.9	18607.1	19937.0	20541.4	20793.9	14093.7	7055.7	1255.2	698.1	949.4	1173.4
72.5°	13735.8	14885.5	15811.1	16253.2	16450.0	10772.7	5138.0	948.2	572.5	800.0	1067.9
75°	9724.9	10587.8	11079.6	11178.0	11208.8	6493.9	3121.9	705.2	471.7	622.3	902.0
77.5°	5488.9	5858.7	5818.4	5862.2	5497.2	2506.8	1359.5	504.9	388.8	472.9	699.3
80°	2142.9	2209.3	2075.4	2033.9	1865.6	932.8	599.7	352.0	310.5	357.9	489.5
82.5°	944.6	975.5	947.0	954.1	912.6	481.2	359.1	254.8	237.0	261.9	324.8
85°	520.3	529.8	527.4	542.8	520.3	192.0	170.7	156.5	165.9	177.8	208.6
87.5°	253.6	256.0	247.7	260.8	252.5	97.2	84.2	88.9	97.2	99.6	99.6
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°	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	1922.5	1913.0	1914.2	1911.8	1907.1	1907.1
5°	1905.9	1896.4	1896.4	1894.0	1888.1	1889.3
7.5°	1922.5	1907.1	1901.1	1892.8	1884.5	1884.5
10°	1941.4	1914.2	1897.6	1883.3	1872.7	1872.7
12.5°	1955.6	1913.0	1885.7	1866.8	1856.1	1856.1
15°	1960.4	1904.7	1866.8	1844.2	1834.8	1833.6
17.5°	1945.0	1872.7	1826.5	1800.4	1788.5	1785.0
20°	1897.6	1814.6	1758.9	1729.3	1712.7	1706.7
22.5°	1826.5	1731.6	1666.5	1635.6	1614.3	1610.7
25°	1726.9	1625.0	1561.0	1531.3	1519.5	1515.9
27.5°	1610.7	1515.9	1461.4	1442.4	1431.8	1430.6
30°	1500.5	1419.9	1379.6	1365.4	1352.4	1350.0
32.5°	1397.4	1346.4	1331.0	1310.9	1280.1	1276.5
35°	1323.9	1319.2	1308.5	1263.5	1225.5	1214.9
37.5°	1278.9	1322.7	1268.2	1179.3	1152.1	1149.7
40°	1252.8	1286.0	1192.4	1161.5	1163.9	1161.5
42.5°	1193.5	1227.9	1194.7	1180.5	1190.0	1192.4
45°	1134.3	1172.2	1212.5	1203.0	1225.5	1225.5
47.5°	1101.1	1158.0	1211.3	1211.3	1244.5	1256.4
50°	1063.2	1146.1	1192.4	1208.9	1235.0	1225.5
52.5°	1060.8	1126.0	1165.1	1194.7	1206.6	1195.9
55°	1064.3	1109.4	1137.8	1171.0	1185.2	1186.4
57.5°	1069.1	1099.9	1118.9	1134.3	1176.9	1176.9
60°	1080.9	1091.6	1102.3	1110.6	1166.3	1167.5
62.5°	1099.9	1083.3	1080.9	1089.2	1160.4	1155.6
65°	1129.5	1071.5	1053.7	1062.0	1154.4	1140.2
67.5°	1169.8	1053.7	1019.3	1025.2	1149.7	1118.9
70°	1206.6	1025.2	976.6	970.7	1104.6	1050.1
72.5°	1210.1	992.0	917.4	899.6	960.0	907.9
75°	1150.9	969.5	852.2	800.0	792.9	785.8
77.5°	1037.1	956.5	776.3	694.6	680.3	685.1
80°	867.6	907.9	685.1	587.9	664.9	656.6
82.5°	648.3	801.2	582.0	520.3	519.1	458.7
85°	360.3	624.6	474.1	389.9	271.4	263.1
87.5°	100.7	347.3	331.9	220.5	150.5	156.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)