

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: P193954

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193954
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-06-LED-E1-T2R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 30265 lumens
Efficiency: N/A
Efficacy: 90.9 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 - G4

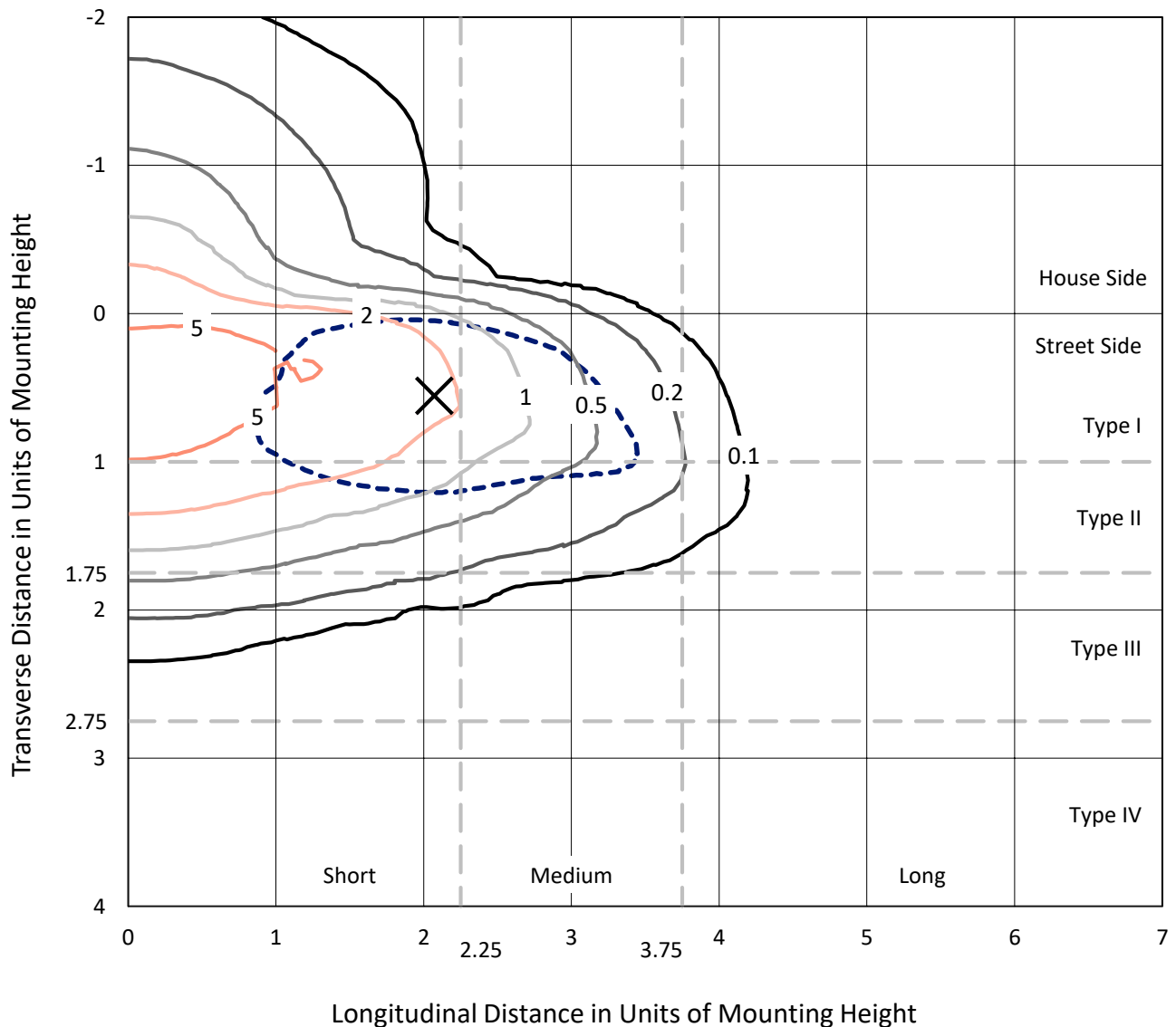
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

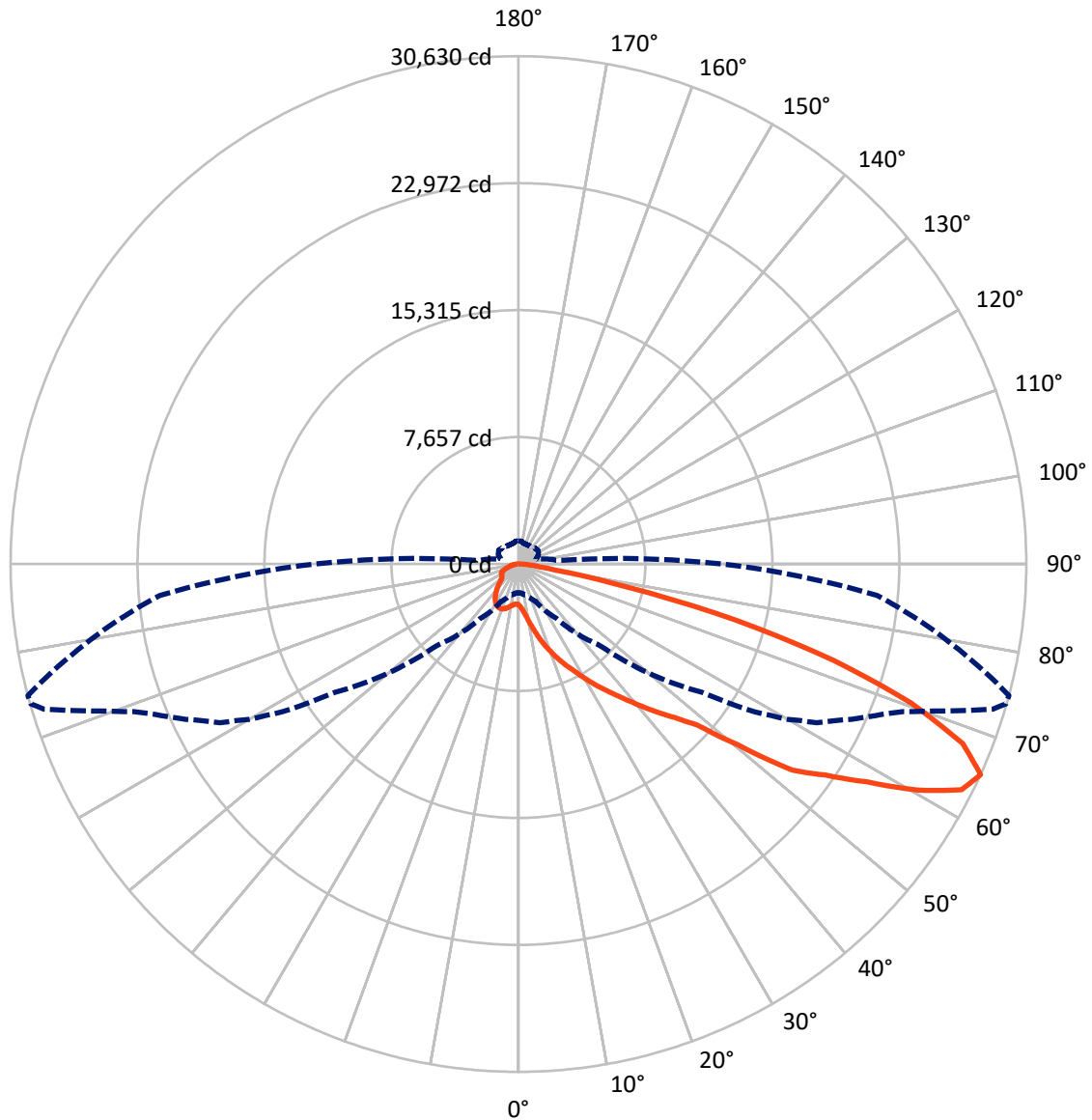
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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	4666.2	0.0	4666.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	25598.8	0.0	25598.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	30265.0	0.0	30265.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	1.0
10°-20°	1187.9	3.9
20°-30°	2437.1	8.1
30°-40°	4100.3	13.5
40°-50°	5665.5	18.7
50°-60°	7072.2	23.4
60°-70°	6364.2	21.0
70°-80°	2667.8	8.8
80°-90°	466.1	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°	30265.0	100.0
0°-180°	30265.0	100.0



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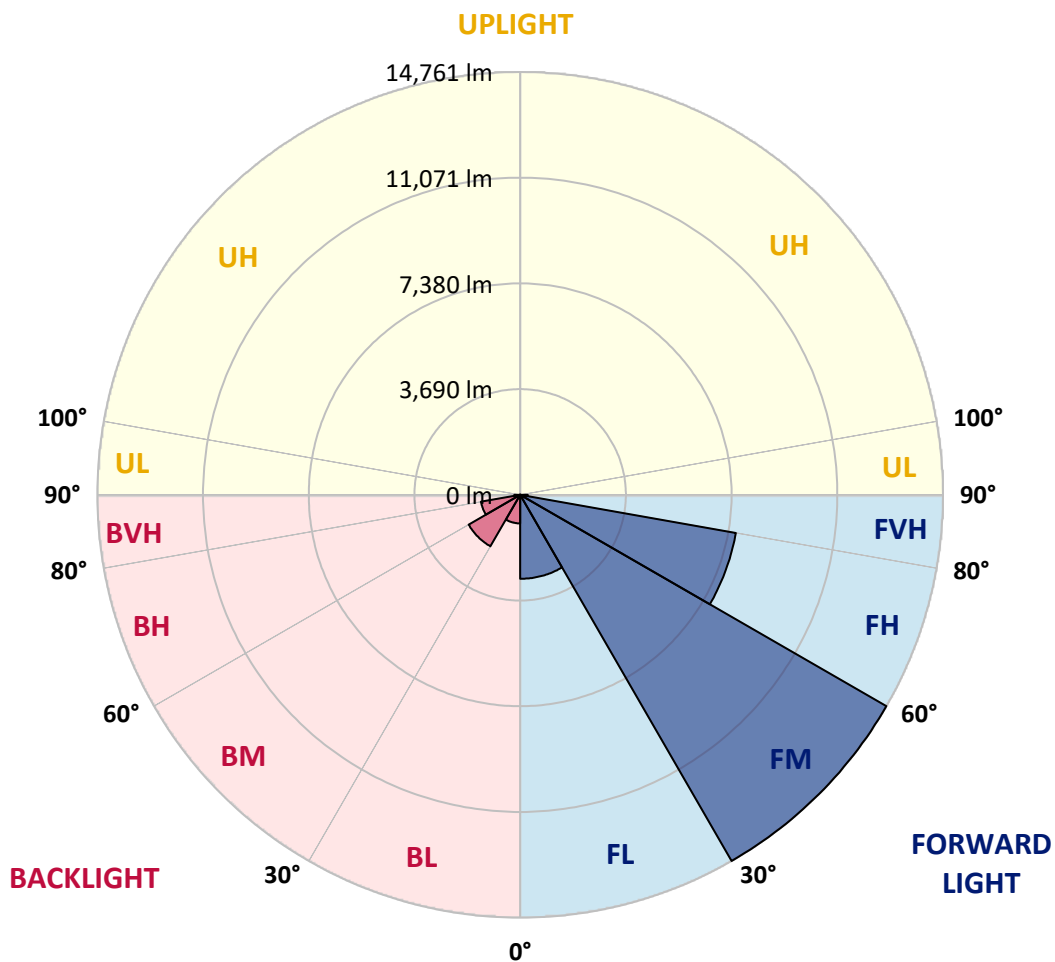
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2931.1	9.7			
FM (30°-60°)	14761.0	48.8			
FH (60°-80°)	7644.8	25.3			G4/12000
FVH (80°-90°)	262.0	0.9			G3/500
BL (0°-30°)	997.9	3.3	B2/1000		
BM (30°-60°)	2077.0	6.9	B2/2500		
BH (60°-80°)	1387.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	204.1	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	3122.9	3088.5	3097.1	3039.8	2969.6	2877.9	2776.2	2774.8	2776.2	2766.2	2728.9
5°	4330.5	4288.9	4273.2	4144.2	3955.1	3685.8	3393.6	3362.1	3349.2	3316.2	3240.3
7.5°	5211.5	5188.5	5164.2	5066.8	4894.9	4594.0	4201.5	4134.2	4069.7	4054.0	3968.0
10°	5780.2	5774.4	5722.9	5697.1	5589.6	5328.9	4946.4	4882.0	4811.8	4787.4	4697.2
12.5°	6230.0	6228.5	6204.2	6211.3	6118.2	5929.1	5599.7	5540.9	5489.4	5414.9	5350.4
15°	6540.8	6542.2	6578.1	6618.2	6603.8	6476.4	6166.9	6141.1	6096.7	6045.2	5969.2
17.5°	6795.8	6803.0	6840.2	6913.3	6992.1	6982.0	6737.1	6715.6	6676.9	6606.7	6566.6
20°	7371.7	7398.9	7327.3	7327.3	7335.9	7374.5	7257.1	7239.9	7185.4	7148.2	7116.7
22.5°	8344.3	8375.9	8214.0	8049.2	7887.4	7769.9	7652.4	7673.9	7636.7	7610.9	7592.3
25°	9607.8	9632.2	9370.0	9092.1	8762.6	8332.9	8042.1	8029.2	8009.1	7993.4	7984.8
27.5°	10796.8	10806.8	10559.0	10152.2	9769.7	9152.3	8437.5	8421.7	8397.3	8367.3	8341.5
30°	11813.9	11811.0	11556.0	11167.8	10758.1	10074.8	9037.7	8989.0	8917.3	8835.7	8772.7
32.5°	12694.9	12690.6	12411.2	12008.7	11578.9	10988.7	9859.9	9759.7	9647.9	9488.9	9392.9
35°	13388.2	13385.3	13121.7	12702.0	12209.2	11849.7	10802.5	10679.3	10537.5	10324.1	10176.5
37.5°	13650.3	13650.3	13502.8	13216.3	12780.8	12534.4	11849.7	11700.7	11548.9	11306.8	11140.6
40°	13497.1	13499.9	13531.4	13478.4	13266.4	13077.3	12826.6	12737.8	12607.5	12389.7	12216.4
42.5°	12982.8	12998.5	13207.7	13464.1	13570.1	13540.0	13693.3	13653.2	13561.5	13393.9	13256.4
45°	12331.0	12379.7	12608.9	13093.1	13654.6	13939.7	14419.6	14423.9	14406.7	14316.4	14210.4
47.5°	11435.7	11504.4	11806.7	12461.4	13456.9	14327.9	15157.3	15196.0	15231.8	15173.1	15124.4
50°	10246.7	10328.4	10781.0	11649.1	13054.4	14730.4	16551.2	16725.9	16889.2	16869.2	16902.1
52.5°	8973.2	9069.2	9623.6	10590.5	12362.5	14823.6	17442.2	17727.2	18012.3	18245.8	18493.6
55°	7824.3	7772.8	8327.1	9345.7	11225.1	14403.8	18242.9	18586.7	18904.8	19191.3	19486.4
57.5°	6267.2	6351.7	6907.5	7914.6	9719.5	13219.2	18794.5	19297.3	19754.2	20228.4	20646.7
60°	4581.1	4665.7	5268.8	6291.6	8085.1	11422.8	18373.3	19135.4	19867.4	20593.7	21161.0
62.5°	2766.2	2829.2	3360.7	4334.8	6234.3	9292.7	16496.7	17496.6	18573.9	19442.0	20311.5
65°	1721.9	1757.7	1953.9	2489.7	4003.8	6937.6	13478.4	14568.6	15728.9	16830.5	17734.4
67.5°	1409.6	1422.5	1458.3	1572.9	2198.9	4523.8	10031.8	10997.3	12044.5	13110.3	14115.9
70°	1267.8	1259.2	1259.2	1266.3	1409.6	2432.4	6568.0	7196.9	8069.3	8996.1	9915.8
72.5°	1144.6	1136.0	1120.2	1098.7	1150.3	1484.1	3395.0	3869.2	4498.1	5321.8	6202.7
75°	1028.5	1017.1	998.5	971.2	1007.1	1120.2	1630.2	1829.3	2135.9	2574.2	3065.6
77.5°	908.2	893.9	876.7	856.6	902.5	871.0	955.5	1027.1	1144.6	1285.0	1469.7
80°	772.1	759.2	753.5	743.5	797.9	663.2	674.7	719.1	787.9	863.8	949.8
82.5°	604.5	604.5	627.4	631.7	691.9	477.0	504.2	542.9	578.7	618.8	659.0
85°	398.2	401.1	478.5	508.5	545.8	320.9	378.2	391.1	419.7	442.6	459.8
87.5°	124.6	134.7	292.2	323.7	313.7	181.9	232.1	237.8	257.9	273.6	287.9
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2728.9	2711.7	2696.0	2694.5	2683.1	2667.3	2673.1	2648.7	2650.1	2637.2	2622.9
5°	3208.8	3197.3	3140.0	3124.3	3081.3	3054.1	3049.8	2992.5	2985.3	2952.4	2916.6
7.5°	3899.3	3862.0	3781.8	3743.1	3670.1	3615.6	3589.9	3513.9	3476.7	3390.7	3352.1
10°	4622.7	4575.4	4476.6	4422.1	4351.9	4264.6	4217.3	4107.0	4064.0	3985.2	3890.7
12.5°	5293.1	5245.8	5144.1	5102.6	5009.5	4916.4	4864.8	4740.2	4684.3	4558.2	4483.7
15°	5913.4	5866.1	5777.3	5734.3	5641.2	5565.3	5496.5	5373.3	5307.4	5190.0	5092.6
17.5°	6515.0	6464.9	6387.5	6348.9	6258.6	6181.3	6106.8	5990.7	5923.4	5805.9	5718.6
20°	7073.7	7036.5	6980.6	6929.0	6838.8	6768.6	6679.8	6579.5	6482.1	6396.1	6313.0
22.5°	7560.8	7546.4	7486.3	7463.3	7386.0	7325.8	7248.5	7149.6	7079.4	6970.6	6893.2
25°	7980.5	7976.2	7947.5	7940.4	7885.9	7828.6	7811.4	7729.8	7665.3	7569.4	7489.1
27.5°	8341.5	8345.8	8338.6	8358.7	8344.3	8318.6	8320.0	8292.8	8255.5	8175.3	8105.1
30°	8742.6	8719.7	8732.5	8761.2	8769.8	8772.7	8819.9	8835.7	8832.8	8779.8	8745.4
32.5°	9309.8	9255.4	9205.3	9201.0	9229.6	9241.1	9321.3	9362.8	9398.7	9411.6	9417.3
35°	10033.3	9924.4	9819.8	9764.0	9715.2	9728.1	9785.4	9852.8	9931.6	9986.0	10050.5
37.5°	10944.3	10811.1	10626.3	10494.5	10461.6	10390.0	10427.2	10480.2	10557.6	10642.1	10753.8
40°	12048.8	11846.8	11639.1	11464.3	11369.8	11238.0	11236.6	11226.5	11273.8	11352.6	11510.2
42.5°	13111.7	12932.7	12712.0	12528.7	12405.5	12229.3	12193.5	12100.4	12121.9	12190.6	12343.9
45°	14107.3	13959.8	13825.1	13613.1	13508.5	13318.0	13257.8	13147.5	13085.9	13117.4	13270.7
47.5°	15071.4	14976.8	14836.4	14698.9	14618.7	14448.2	14370.9	14292.1	14213.3	14210.4	14370.9
50°	16950.8	16900.7	16734.5	16591.3	16629.9	16420.8	16433.7	16221.7	16317.7	16329.1	16665.8
52.5°	18717.1	18891.9	19015.1	19165.5	19262.9	19281.5	19346.0	19442.0	19558.0	19787.2	20099.5
55°	19728.5	19947.6	20075.1	20189.7	20378.8	20418.9	20526.4	20653.8	20755.6	21013.4	21278.4
57.5°	20930.3	21337.2	21534.8	21716.8	21971.8	22069.2	22248.2	22387.2	22519.0	22824.1	23145.0
60°	21670.9	22166.6	22569.1	22857.0	23176.5	23405.7	23676.4	23894.2	24203.6	24568.9	25047.3
62.5°	21082.2	21809.9	22344.2	22838.4	23272.5	23710.8	24099.0	24505.9	24975.7	25528.7	26270.7
65°	18737.2	19477.8	20393.1	20906.0	21480.4	22156.5	22746.7	23405.7	24046.0	24851.1	25948.4
67.5°	15084.3	15945.2	16973.7	17490.9	18151.3	18906.2	19568.0	20373.1	21120.8	22096.4	23453.0
70°	10872.7	11985.8	12851.0	13391.1	14161.7	14939.6	15578.5	16515.3	17134.2	18134.1	19536.5
72.5°	6884.6	7762.7	8822.8	9503.2	10188.0	10975.8	11629.1	12437.0	13014.3	13925.4	15196.0
75°	3701.6	4349.1	5280.2	5926.3	6659.7	7333.0	8097.9	8639.4	9066.3	9786.9	10818.3
77.5°	1734.8	2128.7	2600.0	3097.1	3594.2	4112.7	4617.0	5055.3	5238.7	5651.2	6260.0
80°	1052.9	1180.4	1317.9	1471.2	1678.9	1846.5	2068.5	2229.0	2240.4	2370.8	2557.0
82.5°	703.4	750.6	792.2	830.9	883.9	925.4	972.7	1028.5	1051.5	1081.5	1141.7
85°	479.9	502.8	511.4	535.8	530.0	544.4	563.0	581.6	591.6	590.2	617.4
87.5°	295.1	306.6	312.3	318.0	313.7	308.0	316.6	326.6	329.5	320.9	323.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2625.8	2612.9	2600.0	2591.4	2588.5	2512.6	2479.7	2458.2	2412.3	2375.1	2345.0
5°	2896.5	2869.3	2847.8	2822.0	2807.7	2615.8	2545.6	2496.9	2416.6	2369.4	2326.4
7.5°	3332.0	3256.1	3211.7	3161.5	3118.6	2771.9	2655.9	2579.9	2468.2	2405.2	2356.5
10°	3826.2	3747.4	3677.2	3599.9	3532.6	2979.6	2810.6	2693.1	2545.6	2463.9	2399.4
12.5°	4377.7	4300.4	4211.6	4112.7	4026.8	3243.2	3008.3	2840.7	2638.7	2529.8	2439.6
15°	5029.5	4893.4	4786.0	4671.4	4571.1	3558.3	3238.9	3006.8	2737.5	2590.0	2469.6
17.5°	5635.5	5492.2	5346.1	5245.8	5129.8	3912.2	3471.0	3175.9	2819.2	2628.6	2475.4
20°	6227.1	6071.0	5944.9	5810.2	5688.5	4278.9	3718.8	3324.8	2872.2	2630.1	2439.6
22.5°	6748.5	6651.1	6510.7	6364.6	6241.4	4645.6	3950.8	3450.9	2892.2	2597.1	2376.5
25°	7341.6	7238.4	7066.5	6943.3	6805.8	5019.5	4178.6	3548.3	2880.8	2535.5	2279.1
27.5°	7974.8	7860.2	7684.0	7555.0	7388.9	5407.7	4387.8	3618.5	2837.8	2435.3	2148.8
30°	8635.1	8530.6	8357.2	8226.9	8059.3	5818.8	4621.3	3665.8	2751.8	2296.3	1996.9
32.5°	9344.2	9256.8	9084.9	8948.9	8769.8	6264.3	4839.0	3680.1	2621.5	2131.6	1836.5
35°	10017.5	9957.3	9812.7	9685.2	9498.9	6685.5	5069.6	3672.9	2466.8	1951.1	1690.4
37.5°	10775.3	10739.5	10667.9	10506.0	10278.2	7257.1	5346.1	3642.9	2277.7	1772.0	1578.6
40°	11583.2	11586.1	11508.7	11398.4	11186.4	7950.4	5675.6	3584.1	2071.4	1614.4	1476.9
42.5°	12438.4	12482.8	12445.6	12366.8	12163.4	8649.5	6069.5	3512.5	1870.9	1461.2	1376.6
45°	13418.3	13472.7	13530.0	13414.0	13216.3	9572.0	6588.1	3419.4	1654.5	1333.7	1307.9
47.5°	14548.5	14634.5	14686.0	14687.5	14489.8	10715.1	7430.4	3363.5	1462.6	1247.7	1274.9
50°	16933.6	16960.9	17082.6	17294.6	17142.8	13361.0	8901.6	3329.1	1332.2	1194.7	1250.6
52.5°	20370.2	20669.6	20880.2	20865.9	20659.6	15041.3	9712.4	3151.5	1254.9	1174.7	1239.1
55°	21769.8	22143.7	22533.3	22636.4	22476.0	16475.2	10478.8	2973.9	1217.6	1189.0	1243.4
57.5°	23634.9	24265.2	24799.5	25024.4	24792.4	18310.3	11487.3	2880.8	1206.2	1227.7	1270.6
60°	25813.7	26593.0	27294.9	27698.9	27698.9	20418.9	12533.0	2842.1	1190.4	1285.0	1316.5
62.5°	27213.3	28357.9	29417.9	30009.5	29992.3	21887.2	12997.1	2710.3	1154.6	1325.1	1379.5
65°	27219.0	28579.9	29930.7	30595.4	30629.8	21706.7	12230.7	2393.7	1088.7	1330.8	1442.5
67.5°	24949.9	26401.1	27975.4	28718.8	28890.8	19982.0	10587.6	1968.3	981.3	1273.5	1465.5
70°	21072.1	22488.9	24096.2	24826.7	25131.9	17033.9	8527.7	1517.0	843.7	1147.4	1418.2
72.5°	16601.3	17990.8	19109.6	19643.9	19881.7	13020.0	6209.9	1146.0	691.9	966.9	1290.7
75°	11753.7	12796.6	13391.1	13509.9	13547.2	7848.7	3773.2	852.3	570.1	752.1	1090.1
77.5°	6633.9	7080.9	7032.2	7085.2	6644.0	3029.7	1643.1	610.2	469.9	571.6	845.2
80°	2590.0	2670.2	2508.3	2458.2	2254.8	1127.4	724.8	425.5	375.3	432.6	591.6
82.5°	1141.7	1179.0	1144.6	1153.2	1103.0	581.6	434.0	308.0	286.5	316.6	392.5
85°	628.9	640.3	637.5	656.1	628.9	232.1	206.3	189.1	200.6	214.9	252.1
87.5°	306.6	309.4	299.4	315.2	305.1	117.5	101.7	107.4	117.5	120.3	120.3
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°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2323.5	2312.1	2313.5	2310.6	2304.9	2304.9
5°	2303.5	2292.0	2292.0	2289.1	2282.0	2283.4
7.5°	2323.5	2304.9	2297.7	2287.7	2277.7	2277.7
10°	2346.4	2313.5	2293.4	2276.2	2263.4	2263.4
12.5°	2363.6	2312.1	2279.1	2256.2	2243.3	2243.3
15°	2369.4	2302.0	2256.2	2229.0	2217.5	2216.1
17.5°	2350.7	2263.4	2207.5	2176.0	2161.6	2157.4
20°	2293.4	2193.2	2125.8	2090.0	2070.0	2062.8
22.5°	2207.5	2092.9	2014.1	1976.9	1951.1	1946.8
25°	2087.2	1964.0	1886.6	1850.8	1836.5	1832.2
27.5°	1946.8	1832.2	1766.3	1743.4	1730.5	1729.0
30°	1813.6	1716.1	1667.4	1650.2	1634.5	1631.6
32.5°	1688.9	1627.3	1608.7	1584.3	1547.1	1542.8
35°	1600.1	1594.4	1581.5	1527.0	1481.2	1468.3
37.5°	1545.7	1598.7	1532.8	1425.3	1392.4	1389.5
40°	1514.2	1554.3	1441.1	1403.9	1406.7	1403.9
42.5°	1442.5	1484.1	1444.0	1426.8	1438.2	1441.1
45°	1370.9	1416.7	1465.5	1454.0	1481.2	1481.2
47.5°	1330.8	1399.6	1464.0	1464.0	1504.1	1518.5
50°	1285.0	1385.2	1441.1	1461.2	1492.7	1481.2
52.5°	1282.1	1360.9	1408.2	1444.0	1458.3	1445.4
55°	1286.4	1340.8	1375.2	1415.3	1432.5	1433.9
57.5°	1292.1	1329.4	1352.3	1370.9	1422.5	1422.5
60°	1306.4	1319.3	1332.2	1342.3	1409.6	1411.0
62.5°	1329.4	1309.3	1306.4	1316.5	1402.4	1396.7
65°	1365.2	1295.0	1273.5	1283.5	1395.3	1378.1
67.5°	1413.9	1273.5	1232.0	1239.1	1389.5	1352.3
70°	1458.3	1239.1	1180.4	1173.2	1335.1	1269.2
72.5°	1462.6	1199.0	1108.8	1087.3	1160.3	1097.3
75°	1391.0	1171.8	1030.0	966.9	958.3	949.8
77.5°	1253.4	1156.0	938.3	839.4	822.3	828.0
80°	1048.6	1097.3	828.0	710.5	803.6	793.6
82.5°	783.6	968.4	703.4	628.9	627.4	554.4
85°	435.5	754.9	573.0	471.3	328.0	318.0
87.5°	121.8	419.7	401.1	266.4	181.9	189.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)