

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: P193955

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193955
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-07-LED-E1-T2R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35792 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

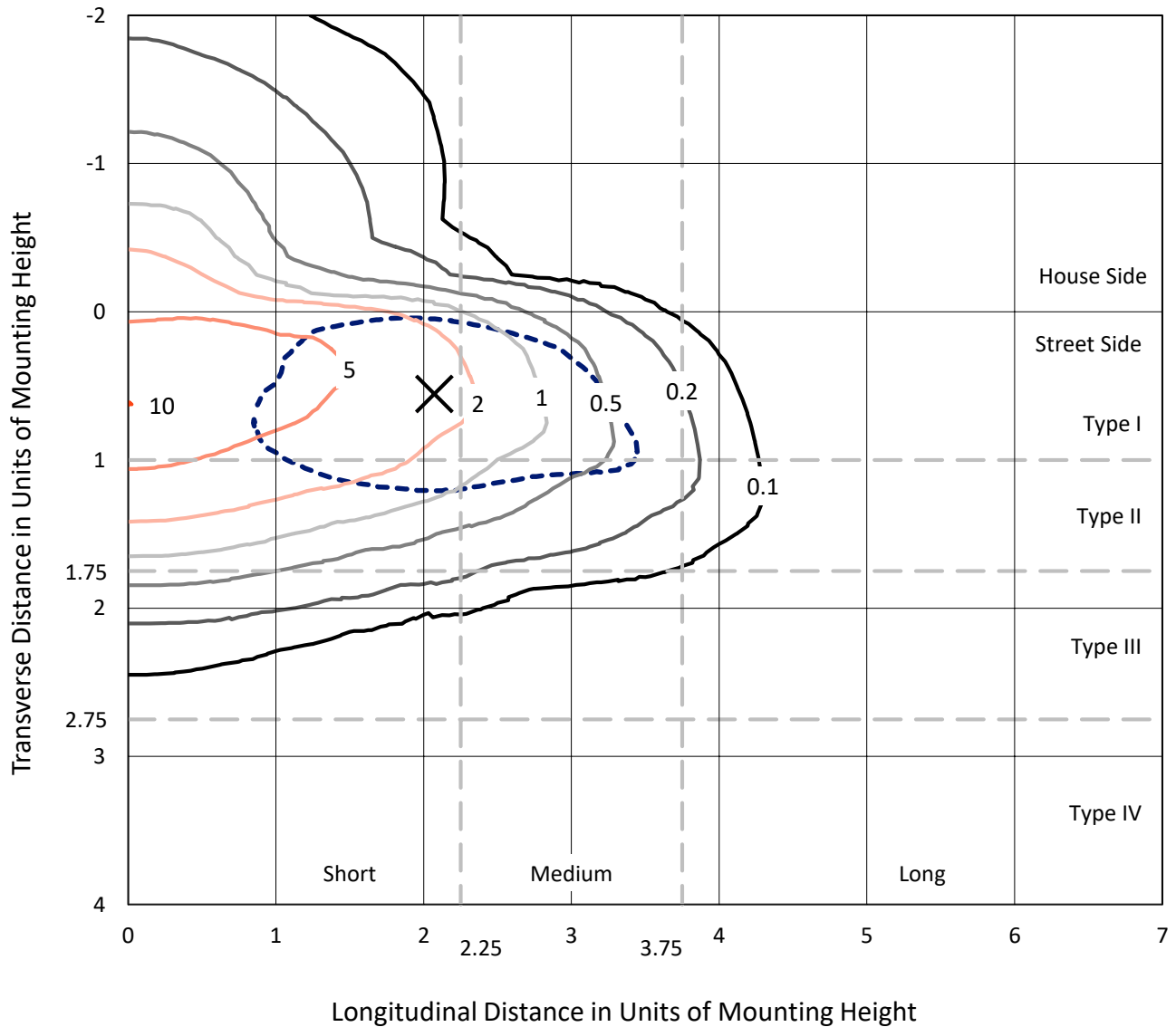
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

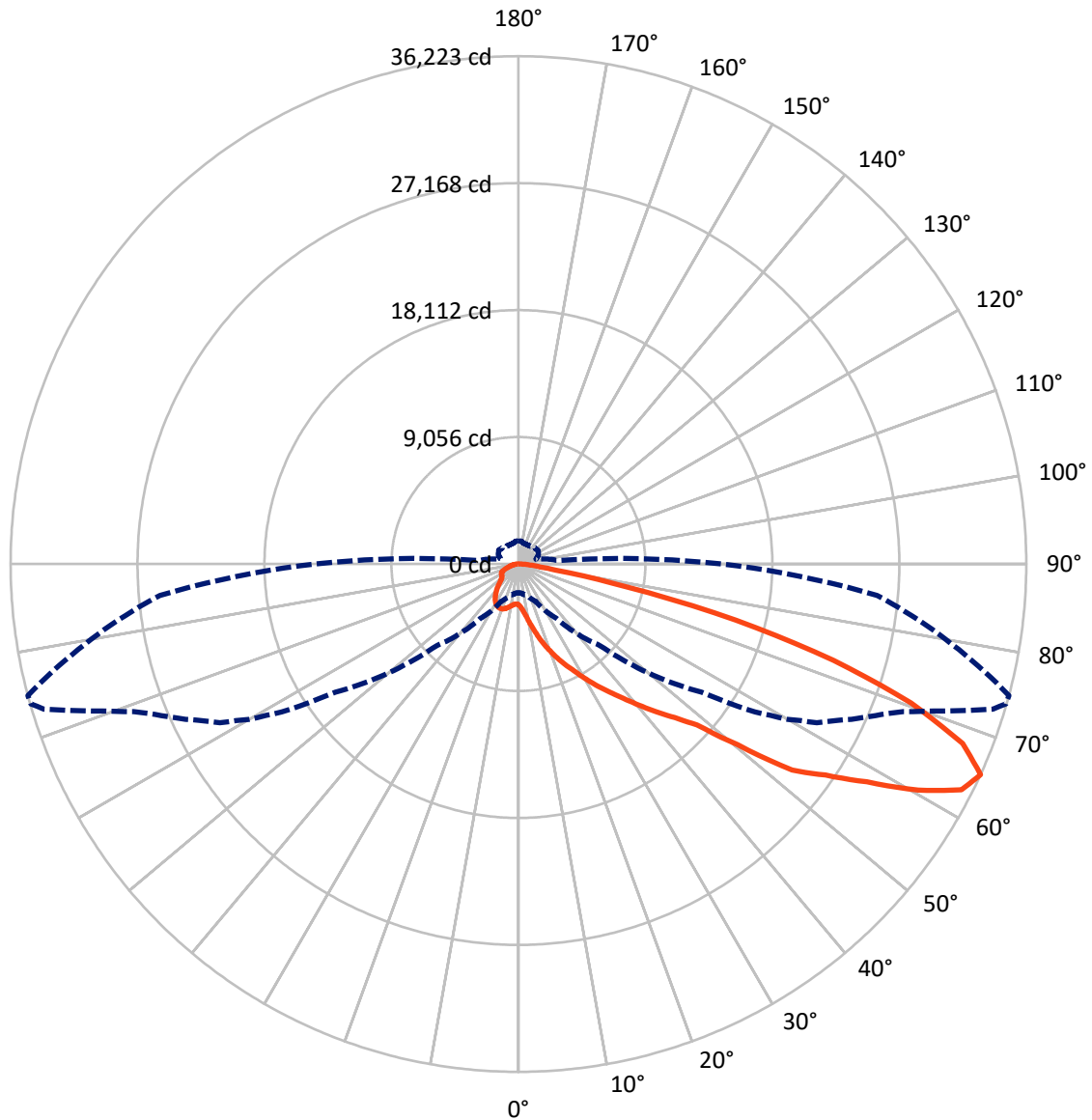
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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	5518.3	0.0	5518.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	30273.7	0.0	30273.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	35792.0	0.0	35792.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	1.0
10°-20°	1404.8	3.9
20°-30°	2882.2	8.1
30°-40°	4849.1	13.5
40°-50°	6700.1	18.7
50°-60°	8363.7	23.4
60°-70°	7526.4	21.0
70°-80°	3155.0	8.8
80°-90°	551.2	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°	35792.0	100.0
0°-180°	35792.0	100.0



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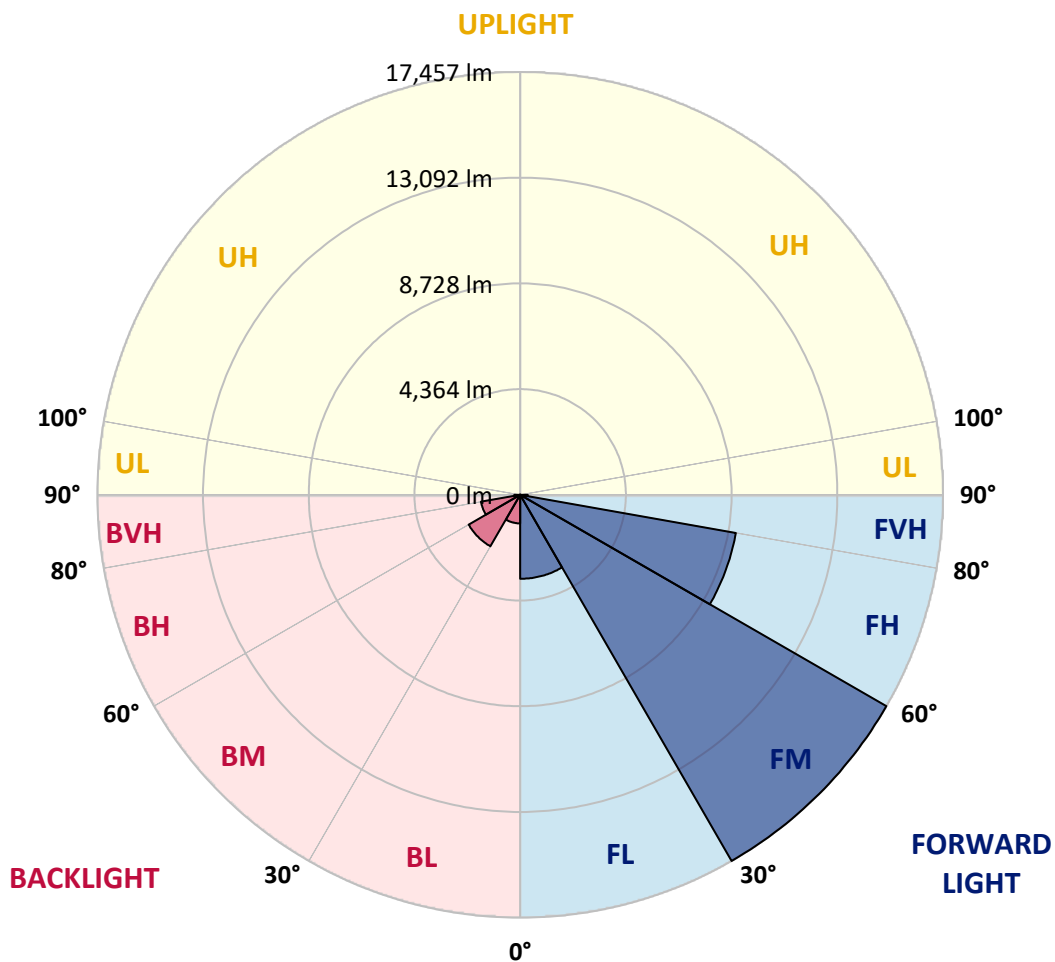
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3466.4	9.7			
FM	(30°-60°)	17456.6	48.8			
FH	(60°-80°)	9040.9	25.3			G4/12000
FVH	(80°-90°)	309.8	0.9			G3/500
BL	(0°-30°)	1180.1	3.3	B3/2500		
BM	(30°-60°)	2456.3	6.9	B2/2500		
BH	(60°-80°)	1640.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	241.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	3693.2	3652.5	3662.7	3594.9	3511.9	3403.5	3283.2	3281.5	3283.2	3271.3	3227.3
5°	5121.3	5072.2	5053.5	4901.1	4677.4	4358.9	4013.3	3976.1	3960.8	3921.9	3832.1
7.5°	6163.2	6136.1	6107.3	5992.1	5788.8	5433.0	4968.8	4889.2	4813.0	4794.3	4692.7
10°	6835.7	6829.0	6768.0	6737.5	6610.4	6302.1	5849.8	5773.5	5690.5	5661.7	5555.0
12.5°	7367.7	7366.0	7337.2	7345.7	7235.5	7011.9	6622.3	6552.8	6491.8	6403.7	6327.5
15°	7735.3	7737.0	7779.3	7826.8	7809.8	7659.1	7293.1	7262.6	7210.1	7149.1	7059.4
17.5°	8036.9	8045.3	8089.4	8175.8	8268.9	8257.1	7967.4	7942.0	7896.2	7813.2	7765.8
20°	8717.9	8750.1	8665.4	8665.4	8675.5	8721.3	8582.4	8562.0	8497.6	8453.6	8416.3
22.5°	9868.2	9905.5	9714.0	9519.2	9327.8	9188.8	9049.9	9075.3	9031.3	9000.8	8978.8
25°	11362.4	11391.2	11081.2	10752.5	10362.9	9854.6	9510.7	9495.5	9471.8	9453.1	9443.0
27.5°	12768.5	12780.4	12487.3	12006.1	11553.8	10823.7	9978.3	9959.7	9930.9	9895.3	9864.8
30°	13971.3	13967.9	13666.4	13207.3	12722.8	11914.7	10688.1	10630.5	10545.8	10449.3	10374.7
32.5°	15013.2	15008.1	14677.8	14201.7	13693.5	12995.5	11660.6	11542.0	11409.8	11221.8	11108.3
35°	15833.1	15829.8	15518.0	15021.7	14438.9	14013.7	12775.3	12629.6	12461.9	12209.4	12034.9
37.5°	16143.2	16143.2	15968.7	15629.8	15114.8	14823.5	14013.7	13837.5	13657.9	13371.6	13175.1
40°	15961.9	15965.3	16002.6	15939.9	15689.1	15465.5	15169.0	15064.0	14909.9	14652.3	14447.4
42.5°	15353.7	15372.3	15619.7	15922.9	16048.3	16012.7	16194.0	16146.6	16038.1	15839.9	15677.3
45°	14582.9	14640.5	14911.5	15484.2	16148.2	16485.4	17052.9	17058.0	17037.7	16930.9	16805.6
47.5°	13524.1	13605.4	13962.8	14737.1	15914.5	16944.5	17925.4	17971.1	18013.5	17944.0	17886.4
50°	12118.0	12214.5	12749.9	13776.5	15438.4	17420.5	19573.7	19780.4	19973.5	19949.8	19988.8
52.5°	10611.9	10725.4	11381.0	12524.5	14620.2	17530.6	20627.5	20964.6	21301.7	21577.9	21870.9
55°	9253.2	9192.2	9847.9	11052.4	13275.0	17034.3	21574.5	21981.1	22357.2	22696.0	23045.0
57.5°	7411.7	7511.7	8169.0	9360.0	11494.5	15633.2	22226.7	22821.3	23361.8	23922.5	24417.2
60°	5417.8	5517.7	6230.9	7440.5	9561.5	13508.8	21728.6	22629.9	23495.6	24354.5	25025.4
62.5°	3271.3	3345.9	3974.4	5126.4	7372.8	10989.7	19509.4	20691.8	21965.8	22992.4	24020.8
65°	2036.3	2078.7	2310.8	2944.4	4735.0	8204.6	15939.9	17229.1	18601.3	19904.1	20973.1
67.5°	1667.0	1682.2	1724.6	1860.1	2600.5	5350.0	11863.8	13005.7	14244.1	15504.5	16693.7
70°	1499.3	1489.1	1489.1	1497.6	1667.0	2876.6	7767.5	8511.2	9542.9	10639.0	11726.6
72.5°	1353.6	1343.4	1324.8	1299.4	1360.4	1755.1	4015.0	4575.8	5319.5	6293.6	7335.5
75°	1216.4	1202.8	1180.8	1148.6	1191.0	1324.8	1927.9	2163.4	2525.9	3044.3	3625.4
77.5°	1074.1	1057.1	1036.8	1013.1	1067.3	1030.0	1130.0	1214.7	1353.6	1519.6	1738.2
80°	913.1	897.9	891.1	879.2	943.6	784.4	797.9	850.4	931.8	1021.5	1123.2
82.5°	714.9	714.9	742.0	747.1	818.3	564.1	596.3	642.1	684.4	731.9	779.3
85°	471.0	474.4	565.8	601.4	645.5	379.5	447.2	462.5	496.4	523.5	543.8
87.5°	147.4	159.2	345.6	382.9	371.0	215.2	274.4	281.2	304.9	323.6	340.5
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	3227.3	3206.9	3188.3	3186.6	3173.1	3154.4	3161.2	3132.4	3134.1	3118.9	3101.9
5°	3794.8	3781.3	3713.5	3694.9	3644.0	3611.8	3606.8	3539.0	3530.5	3491.6	3449.2
7.5°	4611.4	4567.3	4472.4	4426.7	4340.3	4275.9	4245.4	4155.6	4111.6	4010.0	3964.2
10°	5466.9	5411.0	5294.1	5229.7	5146.7	5043.4	4987.5	4857.0	4806.2	4713.0	4601.2
12.5°	6259.7	6203.8	6083.5	6034.4	5924.3	5814.2	5753.2	5605.8	5539.7	5390.7	5302.6
15°	6993.3	6937.4	6832.3	6781.5	6671.4	6581.6	6500.3	6354.6	6276.7	6137.8	6022.6
17.5°	7704.8	7645.5	7554.0	7508.3	7401.6	7310.1	7222.0	7084.8	7005.1	6866.2	6762.9
20°	8365.5	8321.5	8255.4	8194.4	8087.7	8004.7	7899.6	7781.0	7665.8	7564.2	7465.9
22.5°	8941.5	8924.6	8853.4	8826.3	8734.8	8663.7	8572.2	8455.3	8372.3	8243.5	8152.1
25°	9437.9	9432.8	9398.9	9390.4	9326.1	9258.3	9238.0	9141.4	9065.2	8951.7	8856.8
27.5°	9864.8	9869.9	9861.4	9885.1	9868.2	9837.7	9839.4	9807.2	9763.1	9668.3	9585.3
30°	10339.1	10312.0	10327.3	10361.2	10371.3	10374.7	10430.6	10449.3	10445.9	10383.2	10342.5
32.5°	11010.0	10945.6	10886.3	10881.3	10915.1	10928.7	11023.6	11072.7	11115.0	11130.3	11137.1
35°	11865.5	11736.8	11613.1	11547.0	11489.4	11504.7	11572.5	11652.1	11745.3	11809.6	11885.9
37.5°	12943.0	12785.4	12566.9	12411.0	12372.1	12287.4	12331.4	12394.1	12485.6	12585.5	12717.7
40°	14249.1	14010.3	13764.6	13558.0	13446.1	13290.3	13288.6	13276.7	13332.6	13425.8	13612.2
42.5°	15506.2	15294.4	15033.5	14816.7	14671.0	14462.6	14420.3	14310.1	14335.5	14416.9	14598.1
45°	16683.6	16509.1	16349.8	16099.1	15975.4	15750.1	15679.0	15548.5	15475.7	15513.0	15694.2
47.5°	17823.7	17711.9	17545.9	17383.2	17288.4	17086.8	16995.3	16902.1	16808.9	16805.6	16995.3
50°	20046.4	19987.1	19790.6	19621.2	19666.9	19419.6	19434.8	19184.1	19297.6	19311.1	19709.3
52.5°	22135.2	22341.9	22487.6	22665.5	22780.7	22802.7	22878.9	22992.4	23129.7	23400.7	23770.0
55°	23331.3	23590.5	23741.2	23876.8	24100.4	24147.8	24274.9	24425.7	24545.9	24850.9	25164.3
57.5°	24752.6	25233.7	25467.5	25682.7	25984.2	26099.4	26311.2	26475.5	26631.4	26992.2	27371.7
60°	25628.5	26214.6	26690.7	27031.2	27409.0	27680.0	28000.2	28257.7	28623.7	29055.7	29621.5
62.5°	24932.2	25792.8	26424.7	27009.2	27522.5	28040.9	28500.0	28981.1	29536.8	30190.7	31068.3
65°	22158.9	23034.8	24117.3	24723.8	25403.2	26202.8	26900.8	27680.0	28437.3	29389.4	30687.1
67.5°	17839.0	18857.1	20073.5	20685.1	21466.1	22358.8	23141.5	24093.6	24977.9	26131.6	27735.9
70°	12858.3	14174.6	15197.8	15836.5	16748.0	17667.9	18423.4	19531.4	20263.2	21445.7	23104.3
72.5°	8141.9	9180.4	10434.0	11238.7	12048.5	12980.3	13752.8	14708.3	15391.0	16468.4	17971.1
75°	4377.6	5143.3	6244.5	7008.5	7875.9	8672.1	9576.8	10217.2	10722.0	11574.2	12793.9
77.5°	2051.6	2517.4	3074.8	3662.7	4250.5	4863.8	5460.1	5978.5	6195.4	6683.3	7403.3
80°	1245.2	1395.9	1558.6	1739.8	1985.5	2183.7	2446.3	2636.0	2649.6	2803.7	3024.0
82.5°	831.8	887.7	936.8	982.6	1045.3	1094.4	1150.3	1216.4	1243.5	1279.1	1350.2
85°	567.5	594.6	604.8	633.6	626.8	643.8	665.8	687.8	699.7	698.0	730.2
87.5°	349.0	362.5	369.3	376.1	371.0	364.2	374.4	386.3	389.6	379.5	382.9
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°	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	3105.3	3090.1	3074.8	3064.6	3061.3	2971.5	2932.5	2907.1	2852.9	2808.8	2773.3
5°	3425.5	3393.3	3367.9	3337.4	3320.5	3093.4	3010.4	2952.8	2858.0	2802.1	2751.2
7.5°	3940.5	3850.7	3798.2	3738.9	3688.1	3278.1	3140.9	3051.1	2918.9	2844.4	2786.8
10°	4525.0	4431.8	4348.8	4257.3	4177.7	3523.7	3323.8	3184.9	3010.4	2913.9	2837.6
12.5°	5177.2	5085.7	4980.7	4863.8	4762.1	3835.5	3557.6	3359.4	3120.5	2991.8	2885.1
15°	5948.0	5787.1	5660.0	5524.5	5405.9	4208.2	3830.4	3555.9	3237.4	3062.9	2920.6
17.5°	6664.6	6495.2	6322.4	6203.8	6066.6	4626.6	4104.8	3755.8	3334.0	3108.7	2927.4
20°	7364.3	7179.6	7030.6	6871.3	6727.3	5060.3	4397.9	3932.0	3396.7	3110.4	2885.1
22.5°	7980.9	7865.7	7699.7	7526.9	7381.2	5494.0	4672.4	4081.1	3420.4	3071.4	2810.5
25°	8682.3	8560.3	8357.0	8211.3	8048.7	5936.2	4941.7	4196.3	3406.9	2998.6	2695.3
27.5°	9431.1	9295.6	9087.2	8934.7	8738.2	6395.3	5189.1	4279.3	3356.0	2880.0	2541.2
30°	10212.1	10088.4	9883.4	9729.3	9531.1	6881.5	5465.2	4335.2	3254.4	2715.7	2361.6
32.5°	11050.7	10947.3	10744.0	10583.1	10371.3	7408.3	5722.7	4352.2	3100.2	2520.8	2171.8
35°	11846.9	11775.7	11604.6	11453.9	11233.6	7906.4	5995.5	4343.7	2917.3	2307.4	1999.0
37.5°	12743.1	12700.7	12616.0	12424.6	12155.2	8582.4	6322.4	4308.1	2693.6	2095.6	1866.9
40°	13698.6	13702.0	13610.5	13480.0	13229.3	9402.3	6712.1	4238.7	2449.7	1909.3	1746.6
42.5°	14709.9	14762.5	14718.4	14625.2	14384.7	10229.0	7177.9	4154.0	2212.5	1728.0	1628.0
45°	15868.7	15933.1	16000.9	15863.6	15629.8	11320.0	7791.2	4043.8	1956.7	1577.2	1546.7
47.5°	17205.4	17307.0	17368.0	17369.7	17135.9	12671.9	8787.3	3977.8	1729.7	1475.6	1507.8
50°	20026.1	20058.2	20202.2	20453.0	20273.4	15801.0	10527.2	3937.1	1575.5	1412.9	1479.0
52.5°	24090.2	24444.3	24693.3	24676.4	24432.4	17788.1	11486.1	3727.0	1484.0	1389.2	1465.4
55°	25745.4	26187.5	26648.3	26770.3	26580.6	19483.9	12392.4	3517.0	1440.0	1406.1	1470.5
57.5°	27951.1	28696.5	29328.4	29594.4	29319.9	21654.1	13585.1	3406.9	1426.4	1451.9	1502.7
60°	30527.8	31449.4	32279.5	32757.3	32757.3	24147.8	14821.8	3361.1	1407.8	1519.6	1556.9
62.5°	32183.0	33536.6	34790.2	35489.9	35469.6	25884.3	15370.6	3205.3	1365.5	1567.1	1631.4
65°	32189.8	33799.2	35396.7	36182.8	36223.4	25670.8	14464.3	2830.9	1287.5	1573.8	1706.0
67.5°	29506.3	31222.4	33084.2	33963.5	34166.8	23631.1	12521.2	2327.7	1160.5	1506.1	1733.1
70°	24920.3	26595.8	28496.6	29360.6	29721.4	20144.6	10085.0	1794.1	997.8	1357.0	1677.2
72.5°	19633.0	21276.3	22599.4	23231.3	23512.5	15397.8	7344.0	1355.3	818.3	1143.5	1526.4
75°	13900.2	15133.5	15836.5	15977.1	16021.2	9282.0	4462.3	1008.0	674.3	889.4	1289.2
77.5°	7845.4	8374.0	8316.4	8379.1	7857.3	3583.0	1943.1	721.7	555.7	675.9	999.5
80°	3062.9	3157.8	2966.4	2907.1	2666.5	1333.3	857.2	503.2	443.9	511.6	699.7
82.5°	1350.2	1394.3	1353.6	1363.8	1304.5	687.8	513.3	364.2	338.8	374.4	464.2
85°	743.7	757.3	753.9	775.9	743.7	274.4	244.0	223.6	237.2	254.1	298.2
87.5°	362.5	365.9	354.1	372.7	360.8	138.9	120.3	127.1	138.9	142.3	142.3
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°	2908.8	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	2747.8	2734.3	2736.0	2732.6	2725.8	2725.8
5°	2724.1	2710.6	2710.6	2707.2	2698.7	2700.4
7.5°	2747.8	2725.8	2717.4	2705.5	2693.6	2693.6
10°	2775.0	2736.0	2712.3	2691.9	2676.7	2676.7
12.5°	2795.3	2734.3	2695.3	2668.2	2653.0	2653.0
15°	2802.1	2722.4	2668.2	2636.0	2622.5	2620.8
17.5°	2780.0	2676.7	2610.6	2573.4	2556.4	2551.3
20°	2712.3	2593.7	2514.1	2471.7	2448.0	2439.5
22.5°	2610.6	2475.1	2381.9	2337.9	2307.4	2302.3
25°	2468.3	2322.6	2231.1	2188.8	2171.8	2166.8
27.5°	2302.3	2166.8	2088.8	2061.7	2046.5	2044.8
30°	2144.7	2029.5	1971.9	1951.6	1933.0	1929.6
32.5°	1997.4	1924.5	1902.5	1873.7	1829.6	1824.6
35°	1892.3	1885.5	1870.3	1805.9	1751.7	1736.5
37.5°	1827.9	1890.6	1812.7	1685.6	1646.7	1643.3
40°	1790.7	1838.1	1704.3	1660.2	1663.6	1660.2
42.5°	1706.0	1755.1	1707.7	1687.3	1700.9	1704.3
45°	1621.3	1675.5	1733.1	1719.5	1751.7	1751.7
47.5°	1573.8	1655.1	1731.4	1731.4	1778.8	1795.8
50°	1519.6	1638.2	1704.3	1728.0	1765.3	1751.7
52.5°	1516.2	1609.4	1665.3	1707.7	1724.6	1709.4
55°	1521.3	1585.7	1626.3	1673.8	1694.1	1695.8
57.5°	1528.1	1572.1	1599.2	1621.3	1682.2	1682.2
60°	1545.0	1560.3	1575.5	1587.4	1667.0	1668.7
62.5°	1572.1	1548.4	1545.0	1556.9	1658.5	1651.8
65°	1614.5	1531.5	1506.1	1517.9	1650.1	1629.7
67.5°	1672.1	1506.1	1456.9	1465.4	1643.3	1599.2
70°	1724.6	1465.4	1395.9	1387.5	1578.9	1501.0
72.5°	1729.7	1418.0	1311.2	1285.8	1372.2	1297.7
75°	1645.0	1385.8	1218.1	1143.5	1133.4	1123.2
77.5°	1482.3	1367.1	1109.6	992.7	972.4	979.2
80°	1240.1	1297.7	979.2	840.3	950.4	938.5
82.5°	926.7	1145.2	831.8	743.7	742.0	655.6
85°	515.0	892.8	677.6	557.4	388.0	376.1
87.5°	144.0	496.4	474.4	315.1	215.2	223.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)