

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: P192213

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192213
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 30994 lumens
Efficiency: N/A
Efficacy: 111.1 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

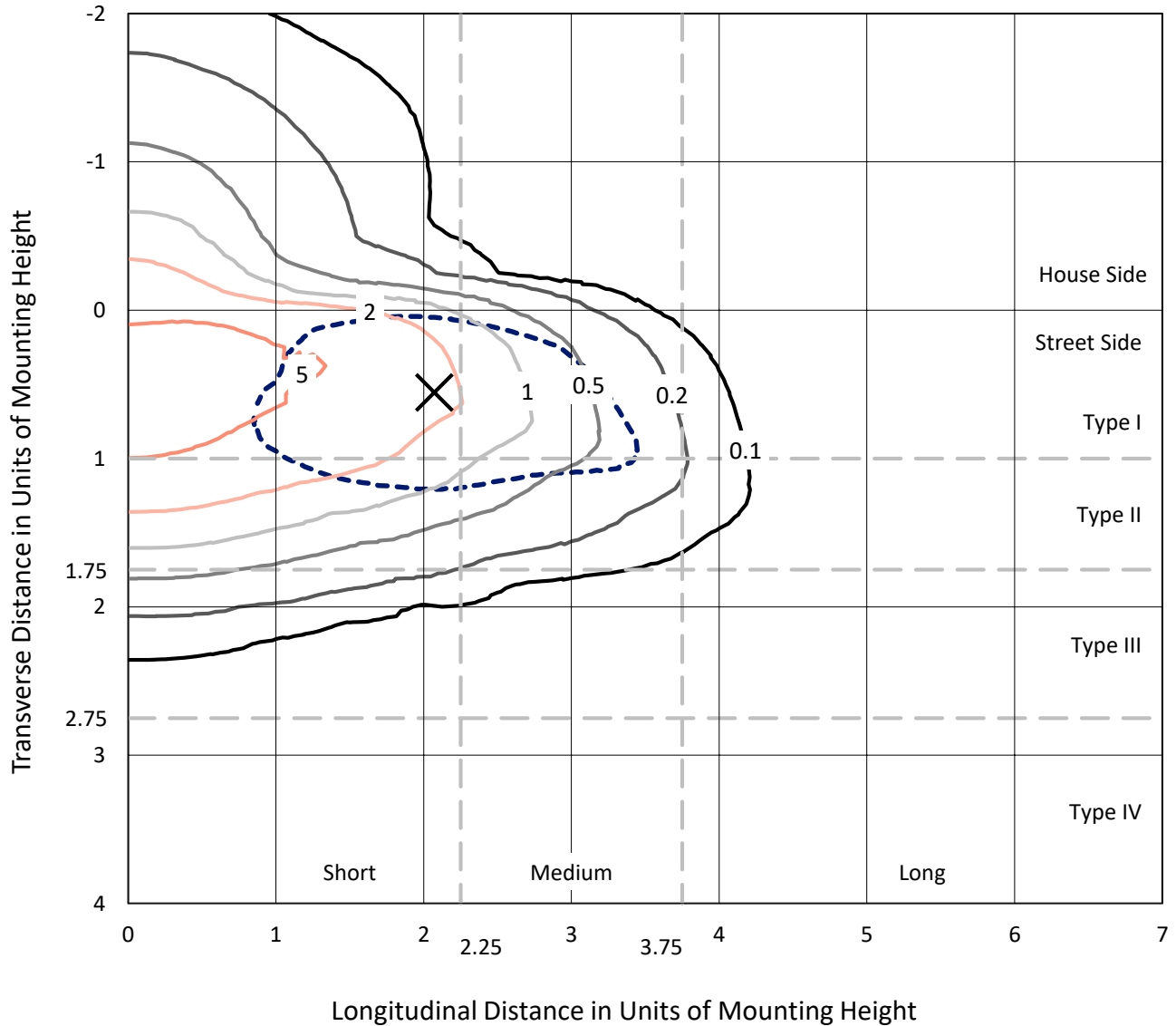
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

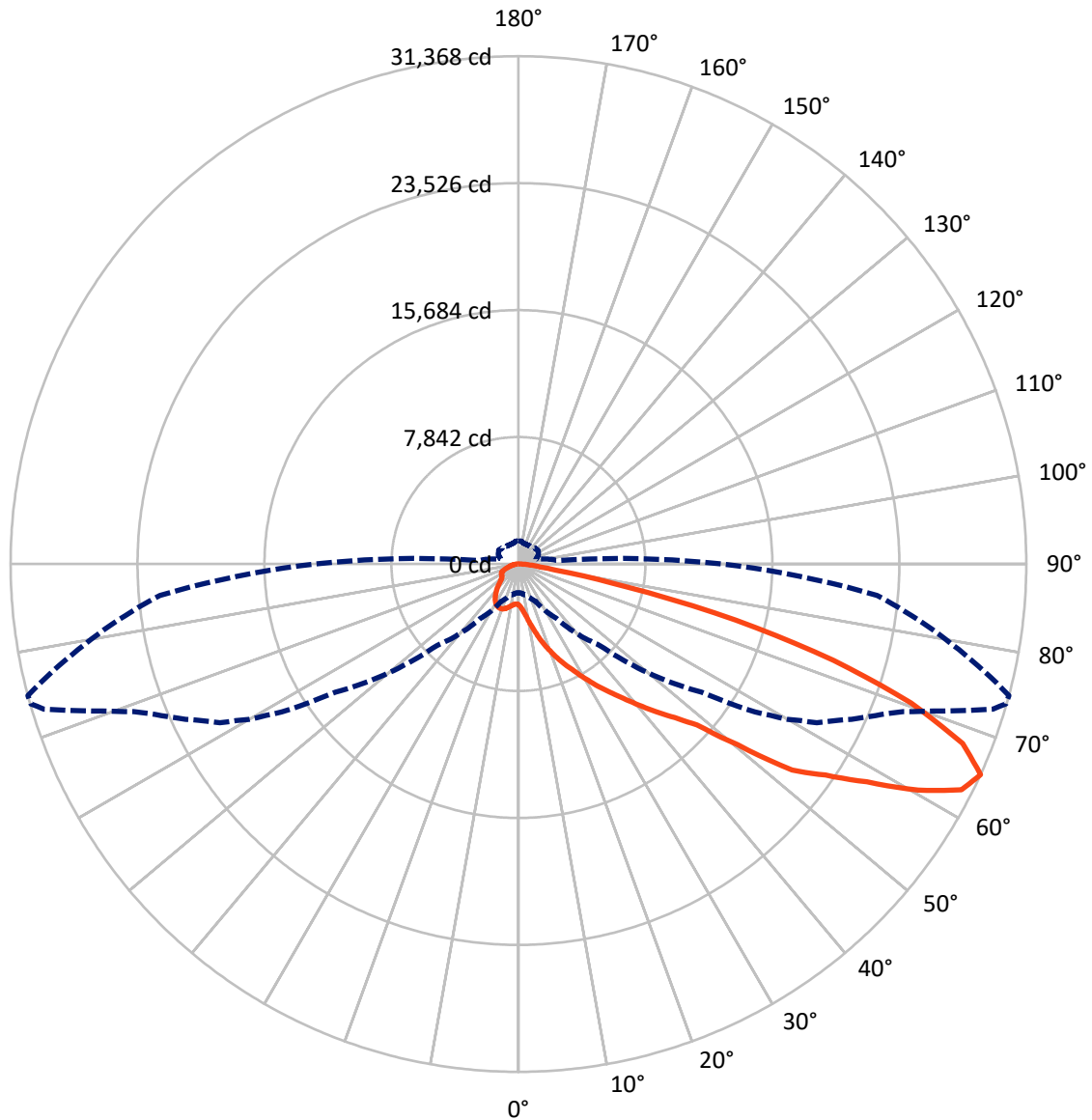
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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	4778.6	0.0	4778.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	26215.5	0.0	26215.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	30994.0	0.0	30994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.3	1.0
10°-20°	1216.5	3.9
20°-30°	2495.8	8.1
30°-40°	4199.1	13.5
40°-50°	5801.9	18.7
50°-60°	7242.5	23.4
60°-70°	6517.5	21.0
70°-80°	2732.1	8.8
80°-90°	477.3	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°	30994.0	100.0
0°-180°	30994.0	100.0

Coefficient of Utilization



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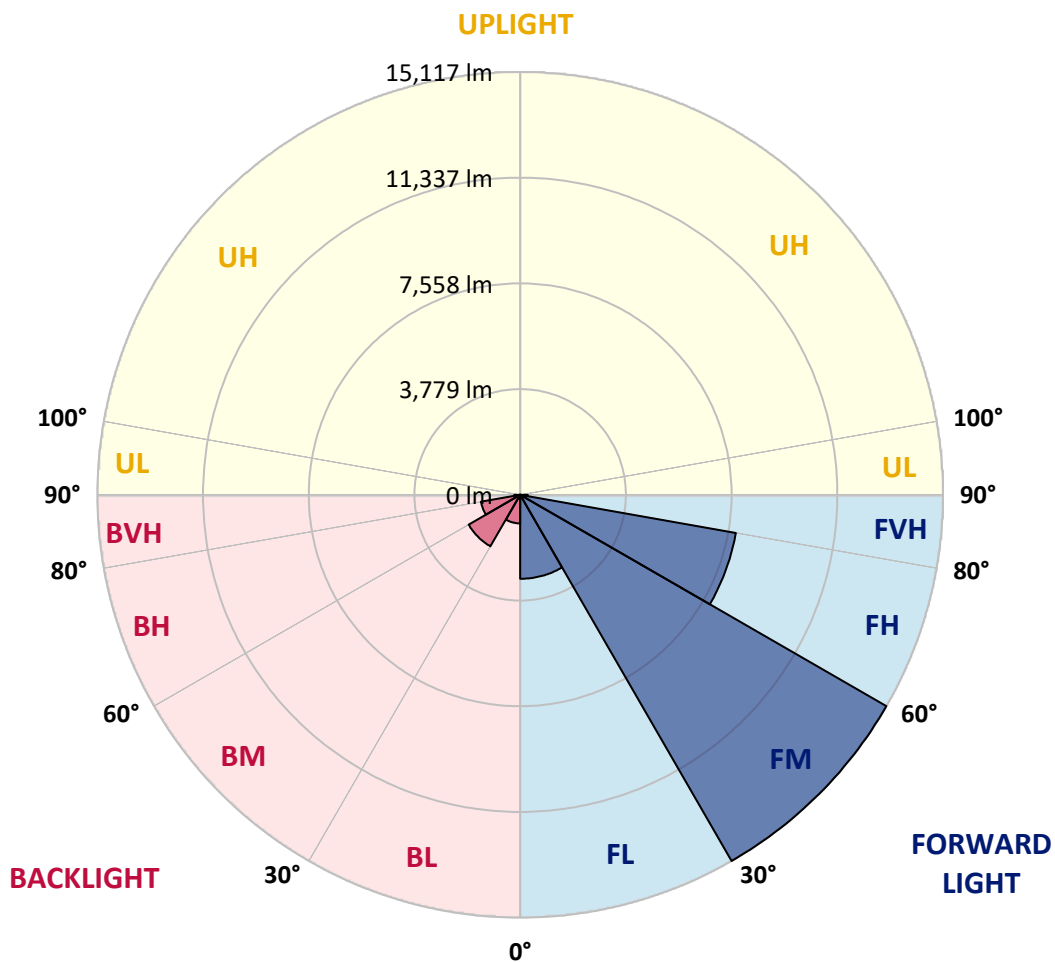
CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3001.7	9.7			
FM	(30°-60°)	15116.5	48.8			
FH	(60°-80°)	7829.0	25.3			G4/12000
FVH	(80°-90°)	268.3	0.9			G3/500
BL	(0°-30°)	1021.9	3.3	B3/2500		
BM	(30°-60°)	2127.0	6.9	B2/2500		
BH	(60°-80°)	1420.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	209.0	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°	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9
2.5°	3198.1	3162.9	3171.7	3113.0	3041.1	2947.2	2843.1	2841.6	2843.1	2832.8	2794.7
5°	4434.8	4392.2	4376.1	4244.1	4050.4	3774.6	3475.3	3443.1	3429.9	3396.1	3318.4
7.5°	5337.0	5313.5	5288.6	5188.8	5012.8	4704.7	4302.7	4233.8	4167.8	4151.6	4063.6
10°	5919.4	5913.5	5860.7	5834.3	5724.3	5457.3	5065.6	4999.6	4927.7	4902.7	4810.3
12.5°	6380.0	6378.6	6353.6	6361.0	6265.6	6072.0	5734.5	5674.4	5621.6	5545.3	5479.3
15°	6698.4	6699.8	6736.5	6777.6	6762.9	6632.4	6315.5	6289.1	6243.6	6190.8	6113.0
17.5°	6959.5	6966.8	7005.0	7079.8	7160.5	7150.2	6899.3	6877.3	6837.7	6765.8	6724.8
20°	7549.2	7577.1	7503.8	7503.8	7512.6	7552.2	7431.9	7414.3	7358.5	7320.4	7288.1
22.5°	8545.3	8577.6	8411.8	8243.1	8077.4	7957.1	7836.8	7858.8	7820.6	7794.2	7775.2
25°	9839.2	9864.2	9595.7	9311.1	8973.7	8533.6	8235.8	8222.6	8202.1	8185.9	8177.1
27.5°	11056.9	11067.1	10813.3	10396.7	10005.0	9372.7	8640.7	8624.5	8599.6	8568.8	8542.4
30°	12098.4	12095.5	11834.4	11436.8	11017.2	10317.5	9255.4	9205.5	9132.1	9048.5	8984.0
32.5°	13000.6	12996.2	12710.2	12297.9	11857.8	11253.4	10097.4	9994.7	9880.3	9717.5	9619.2
35°	13710.7	13707.7	13437.8	13008.0	12503.3	12135.1	11062.7	10936.6	10791.3	10572.7	10421.6
37.5°	13979.1	13979.1	13828.0	13534.6	13088.7	12836.3	12135.1	11982.5	11827.0	11579.1	11408.9
40°	13822.2	13825.1	13857.4	13803.1	13586.0	13392.3	13135.6	13044.6	12911.2	12688.2	12510.7
42.5°	13295.5	13311.6	13525.8	13788.4	13897.0	13866.2	14023.1	13982.1	13888.2	13716.5	13575.7
45°	12628.0	12677.9	12912.6	13408.5	13983.5	14275.5	14766.9	14771.3	14753.7	14661.3	14552.7
47.5°	11711.1	11781.6	12091.1	12761.5	13781.1	14673.0	15522.4	15562.0	15598.7	15538.6	15488.7
50°	10493.5	10577.1	11040.7	11929.7	13368.9	15085.3	16949.8	17128.8	17296.0	17275.5	17309.2
52.5°	9189.3	9287.6	9855.4	10845.6	12660.3	15180.6	17862.3	18154.2	18446.2	18685.3	18939.1
55°	8012.8	7960.0	8527.7	9570.8	11495.5	14750.8	18682.4	19034.4	19360.1	19653.5	19955.7
57.5°	6418.2	6504.7	7073.9	8105.2	9953.7	13537.6	19247.2	19762.1	20230.1	20715.6	21144.0
60°	4691.5	4778.1	5395.7	6443.1	8279.8	11697.9	18815.9	19596.3	20346.0	21089.7	21670.7
62.5°	2832.8	2897.3	3441.6	4439.2	6384.4	9516.5	16894.1	17918.1	19021.2	19910.3	20800.7
65°	1763.3	1800.0	2001.0	2549.7	4100.3	7104.7	13803.1	14919.5	16107.8	17235.9	18161.6
67.5°	1443.5	1456.7	1493.4	1610.8	2251.9	4632.8	10273.5	11262.2	12334.6	13426.1	14455.9
70°	1298.3	1289.5	1289.5	1296.8	1443.5	2491.0	6726.2	7370.3	8263.7	9212.8	10154.6
72.5°	1172.1	1163.3	1147.2	1125.2	1178.0	1519.8	3476.8	3962.4	4606.4	5449.9	6352.2
75°	1053.3	1041.6	1022.5	994.6	1031.3	1147.2	1669.5	1873.4	2187.3	2636.2	3139.4
77.5°	930.1	915.4	897.8	877.3	924.2	891.9	978.5	1051.8	1172.1	1315.9	1505.2
80°	790.7	777.5	771.6	761.4	817.1	679.2	691.0	736.4	806.9	884.6	972.6
82.5°	619.1	619.1	642.6	647.0	708.6	488.5	516.4	556.0	592.7	633.7	674.8
85°	407.8	410.8	490.0	520.8	558.9	328.6	387.3	400.5	429.8	453.3	470.9
87.5°	127.6	137.9	299.3	331.5	321.3	186.3	237.7	243.5	264.1	280.2	294.9
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°	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9
2.5°	2794.7	2777.0	2760.9	2759.4	2747.7	2731.6	2737.4	2712.5	2714.0	2700.8	2686.1
5°	3286.1	3274.4	3215.7	3199.5	3155.5	3127.7	3123.3	3064.6	3057.2	3023.5	2986.8
7.5°	3993.2	3955.1	3872.9	3833.3	3758.5	3702.7	3676.3	3598.6	3560.4	3472.4	3432.8
10°	4734.0	4685.6	4584.4	4528.7	4456.8	4367.3	4318.9	4205.9	4161.9	4081.2	3984.4
12.5°	5420.6	5372.2	5268.0	5225.5	5130.1	5034.8	4982.0	4854.3	4797.1	4668.0	4591.7
15°	6055.8	6007.4	5916.4	5872.4	5777.1	5699.3	5628.9	5502.8	5435.3	5315.0	5215.2
17.5°	6672.0	6620.6	6541.4	6501.8	6409.4	6330.1	6253.9	6135.0	6066.1	5945.8	5856.3
20°	7244.1	7206.0	7148.7	7095.9	7003.5	6931.6	6840.7	6738.0	6638.2	6550.2	6465.1
22.5°	7742.9	7728.2	7666.6	7643.1	7563.9	7502.3	7423.1	7321.8	7250.0	7138.5	7059.2
25°	8172.7	8168.3	8139.0	8131.6	8075.9	8017.2	7999.6	7916.0	7850.0	7751.7	7669.5
27.5°	8542.4	8546.8	8539.5	8560.0	8545.3	8518.9	8520.4	8492.5	8454.4	8372.2	8300.3
30°	8953.2	8929.7	8942.9	8972.2	8981.0	8984.0	9032.4	9048.5	9045.6	8991.3	8956.1
32.5°	9534.1	9478.3	9427.0	9422.6	9451.9	9463.7	9545.8	9588.4	9625.0	9638.3	9644.1
35°	10274.9	10163.4	10056.4	9999.1	9949.3	9962.5	10021.1	10090.1	10170.8	10226.5	10292.5
37.5°	11208.0	11071.5	10882.3	10747.3	10713.6	10640.2	10678.4	10732.6	10811.9	10898.4	11012.8
40°	12339.0	12132.2	11919.5	11740.5	11643.7	11508.7	11507.2	11497.0	11545.4	11626.1	11787.4
42.5°	13427.5	13244.2	13018.2	12830.5	12704.3	12523.9	12487.2	12391.8	12413.8	12484.3	12641.2
45°	14447.1	14296.0	14158.1	13941.0	13833.9	13638.8	13577.2	13464.2	13401.1	13433.4	13590.4
47.5°	15434.4	15337.6	15193.8	15053.0	14970.8	14796.3	14717.0	14636.4	14555.7	14552.7	14717.0
50°	17359.1	17307.8	17137.6	16990.9	17030.5	16816.3	16829.5	16612.4	16710.7	16722.4	17067.2
52.5°	19167.9	19346.9	19473.1	19627.1	19726.9	19745.9	19812.0	19910.3	20029.1	20263.8	20583.6
55°	20203.7	20428.1	20558.7	20676.0	20869.7	20910.8	21020.8	21151.3	21255.5	21519.6	21791.0
57.5°	21434.5	21851.1	22053.6	22239.9	22501.0	22600.7	22784.1	22926.4	23061.4	23373.9	23702.5
60°	22192.9	22700.5	23112.7	23407.6	23734.7	23969.5	24246.7	24469.7	24786.6	25160.7	25650.7
62.5°	21590.0	22335.2	22882.4	23388.5	23833.0	24281.9	24679.5	25096.1	25577.3	26143.6	26903.5
65°	19188.5	19946.9	20884.3	21409.5	21997.8	22690.2	23294.6	23969.5	24625.2	25449.7	26573.4
67.5°	15447.6	16329.3	17382.6	17912.2	18588.5	19361.6	20039.4	20863.8	21629.6	22628.6	24017.9
70°	11134.6	12274.5	13160.5	13713.6	14502.9	15299.4	15953.7	16913.2	17546.9	18570.9	20007.1
72.5°	7050.4	7949.7	9035.3	9732.1	10433.4	11240.2	11909.2	12736.6	13327.8	14260.8	15562.0
75°	3790.8	4453.8	5407.4	6069.0	6820.1	7509.6	8293.0	8847.5	9284.7	10022.6	11078.9
77.5°	1776.5	2180.0	2662.6	3171.7	3680.7	4211.8	4728.2	5177.1	5364.9	5787.4	6410.8
80°	1078.3	1208.8	1349.6	1506.6	1719.3	1891.0	2118.4	2282.7	2294.4	2427.9	2618.6
82.5°	720.3	768.7	811.3	850.9	905.1	947.7	996.1	1053.3	1076.8	1107.6	1169.2
85°	491.4	514.9	523.7	548.7	542.8	557.5	576.5	595.6	605.9	604.4	632.3
87.5°	302.2	313.9	319.8	325.7	321.3	315.4	324.2	334.5	337.4	328.6	331.5
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°	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9
2.5°	2689.0	2675.8	2662.6	2653.8	2650.9	2573.1	2539.4	2517.4	2470.4	2432.3	2401.5
5°	2966.3	2938.4	2916.4	2890.0	2875.3	2678.8	2606.9	2557.0	2474.8	2426.4	2382.4
7.5°	3412.3	3334.5	3289.0	3237.7	3193.7	2838.7	2719.8	2642.1	2527.7	2463.1	2413.2
10°	3918.4	3837.7	3765.8	3686.6	3617.6	3051.4	2878.3	2758.0	2606.9	2523.3	2457.2
12.5°	4483.2	4404.0	4313.0	4211.8	4123.8	3321.3	3080.7	2909.1	2702.2	2590.7	2498.3
15°	5150.7	5011.3	4901.3	4783.9	4681.2	3644.1	3316.9	3079.3	2803.5	2652.4	2529.1
17.5°	5771.2	5624.5	5474.9	5372.2	5253.4	4006.4	3554.6	3252.4	2887.1	2692.0	2535.0
20°	6377.1	6217.2	6088.1	5950.2	5825.5	4382.0	3808.4	3404.9	2941.4	2693.4	2498.3
22.5°	6911.1	6811.3	6667.6	6517.9	6391.8	4757.5	4046.0	3534.0	2961.9	2659.7	2433.8
25°	7518.4	7412.8	7236.8	7110.6	6969.8	5140.4	4279.3	3633.8	2950.2	2596.6	2334.0
27.5°	8166.8	8049.5	7869.0	7737.0	7566.8	5538.0	4493.5	3705.7	2906.1	2493.9	2200.5
30°	8843.1	8736.0	8558.5	8425.0	8253.4	5959.0	4732.6	3754.1	2818.1	2351.6	2045.0
32.5°	9569.3	9479.8	9303.8	9164.4	8981.0	6415.2	4955.6	3768.7	2684.6	2182.9	1880.7
35°	10258.8	10197.2	10049.0	9918.5	9727.7	6846.5	5191.7	3761.4	2526.2	1998.1	1731.1
37.5°	11034.8	10998.2	10924.8	10759.0	10525.8	7431.9	5474.9	3730.6	2332.5	1814.7	1616.6
40°	11862.2	11865.2	11786.0	11673.0	11455.9	8141.9	5812.3	3670.5	2121.3	1653.3	1512.5
42.5°	12738.0	12783.5	12745.4	12664.7	12456.4	8857.8	6215.7	3597.1	1915.9	1496.3	1409.8
45°	13741.5	13797.2	13855.9	13737.1	13534.6	9802.6	6746.8	3501.8	1694.4	1365.8	1339.4
47.5°	14898.9	14987.0	15039.8	15041.2	14838.8	10973.2	7609.4	3444.5	1497.8	1277.8	1305.6
50°	17341.5	17369.4	17494.1	17711.2	17555.7	13682.8	9116.0	3409.3	1364.3	1223.5	1280.7
52.5°	20860.9	21167.5	21383.1	21368.5	21157.2	15403.6	9946.3	3227.4	1285.1	1202.9	1269.0
55°	22294.1	22677.0	23076.1	23181.7	23017.4	16872.1	10731.2	3045.5	1247.0	1217.6	1273.4
57.5°	24204.2	24849.7	25396.9	25627.2	25389.5	18751.3	11763.9	2950.2	1235.2	1257.2	1301.2
60°	26435.5	27233.6	27952.4	28366.1	28366.1	20910.8	12834.9	2910.5	1219.1	1315.9	1348.2
62.5°	27868.8	29040.9	30126.5	30732.4	30714.8	22414.4	13310.2	2775.6	1182.4	1357.0	1412.7
65°	27874.6	29268.3	30651.7	31332.4	31367.6	22229.6	12525.3	2451.4	1114.9	1362.9	1477.3
67.5°	25550.9	27037.0	28649.2	29410.6	29586.6	20463.3	10842.7	2015.7	1004.9	1304.2	1500.8
70°	21579.7	23030.6	24676.6	25424.7	25737.2	17444.2	8733.1	1553.6	864.1	1175.1	1452.3
72.5°	17001.2	18424.2	19569.9	20117.1	20360.6	13333.6	6359.5	1173.6	708.6	990.2	1321.8
75°	12036.8	13104.8	13713.6	13835.4	13873.5	8037.7	3864.1	872.9	583.9	770.2	1116.4
77.5°	6793.7	7251.4	7201.5	7255.8	6804.0	3102.7	1682.7	624.9	481.2	585.3	865.5
80°	2652.4	2734.5	2568.7	2517.4	2309.1	1154.5	742.3	435.7	384.4	443.0	605.9
82.5°	1169.2	1207.3	1172.1	1180.9	1129.6	595.6	444.5	315.4	293.4	324.2	402.0
85°	644.0	655.8	652.8	671.9	644.0	237.7	211.2	193.6	205.4	220.1	258.2
87.5°	313.9	316.9	306.6	322.7	312.5	120.3	104.2	110.0	120.3	123.2	123.2
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):

	135°	145°	155°	165°	175°	180°
0°	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9
2.5°	2379.5	2367.8	2369.2	2366.3	2360.4	2360.4
5°	2359.0	2347.2	2347.2	2344.3	2336.9	2338.4
7.5°	2379.5	2360.4	2353.1	2342.8	2332.5	2332.5
10°	2403.0	2369.2	2348.7	2331.1	2317.9	2317.9
12.5°	2420.6	2367.8	2334.0	2310.5	2297.3	2297.3
15°	2426.4	2357.5	2310.5	2282.7	2270.9	2269.5
17.5°	2407.4	2317.9	2260.7	2228.4	2213.7	2209.3
20°	2348.7	2246.0	2177.0	2140.4	2119.8	2112.5
22.5°	2260.7	2143.3	2062.6	2024.5	1998.1	1993.7
25°	2137.4	2011.3	1932.1	1895.4	1880.7	1876.3
27.5°	1993.7	1876.3	1808.8	1785.4	1772.1	1770.7
30°	1857.2	1757.5	1707.6	1690.0	1673.9	1670.9
32.5°	1729.6	1666.5	1647.5	1622.5	1584.4	1580.0
35°	1638.6	1632.8	1619.6	1563.8	1516.9	1503.7
37.5°	1582.9	1637.2	1569.7	1459.7	1425.9	1423.0
40°	1550.6	1591.7	1475.8	1437.7	1440.6	1437.7
42.5°	1477.3	1519.8	1478.7	1461.1	1472.9	1475.8
45°	1403.9	1450.9	1500.8	1489.0	1516.9	1516.9
47.5°	1362.9	1433.3	1499.3	1499.3	1540.4	1555.0
50°	1315.9	1418.6	1475.8	1496.3	1528.6	1516.9
52.5°	1313.0	1393.7	1442.1	1478.7	1493.4	1480.2
55°	1317.4	1373.1	1408.3	1449.4	1467.0	1468.5
57.5°	1323.2	1361.4	1384.9	1403.9	1456.7	1456.7
60°	1337.9	1351.1	1364.3	1374.6	1443.5	1445.0
62.5°	1361.4	1340.8	1337.9	1348.2	1436.2	1430.3
65°	1398.1	1326.2	1304.2	1314.4	1428.9	1411.3
67.5°	1447.9	1304.2	1261.6	1269.0	1423.0	1384.9
70°	1493.4	1269.0	1208.8	1201.5	1367.3	1299.8
72.5°	1497.8	1227.9	1135.5	1113.5	1188.3	1123.7
75°	1424.5	1200.0	1054.8	990.2	981.4	972.6
77.5°	1283.6	1183.9	960.9	859.7	842.1	847.9
80°	1073.9	1123.7	847.9	727.6	823.0	812.7
82.5°	802.5	991.7	720.3	644.0	642.6	567.7
85°	446.0	773.1	586.8	482.6	335.9	325.7
87.5°	124.7	429.8	410.8	272.9	186.3	193.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)