

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: P193144

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193144
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 28982.1 lumens
Efficiency: N/A
Efficacy: 116.4 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): 249
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



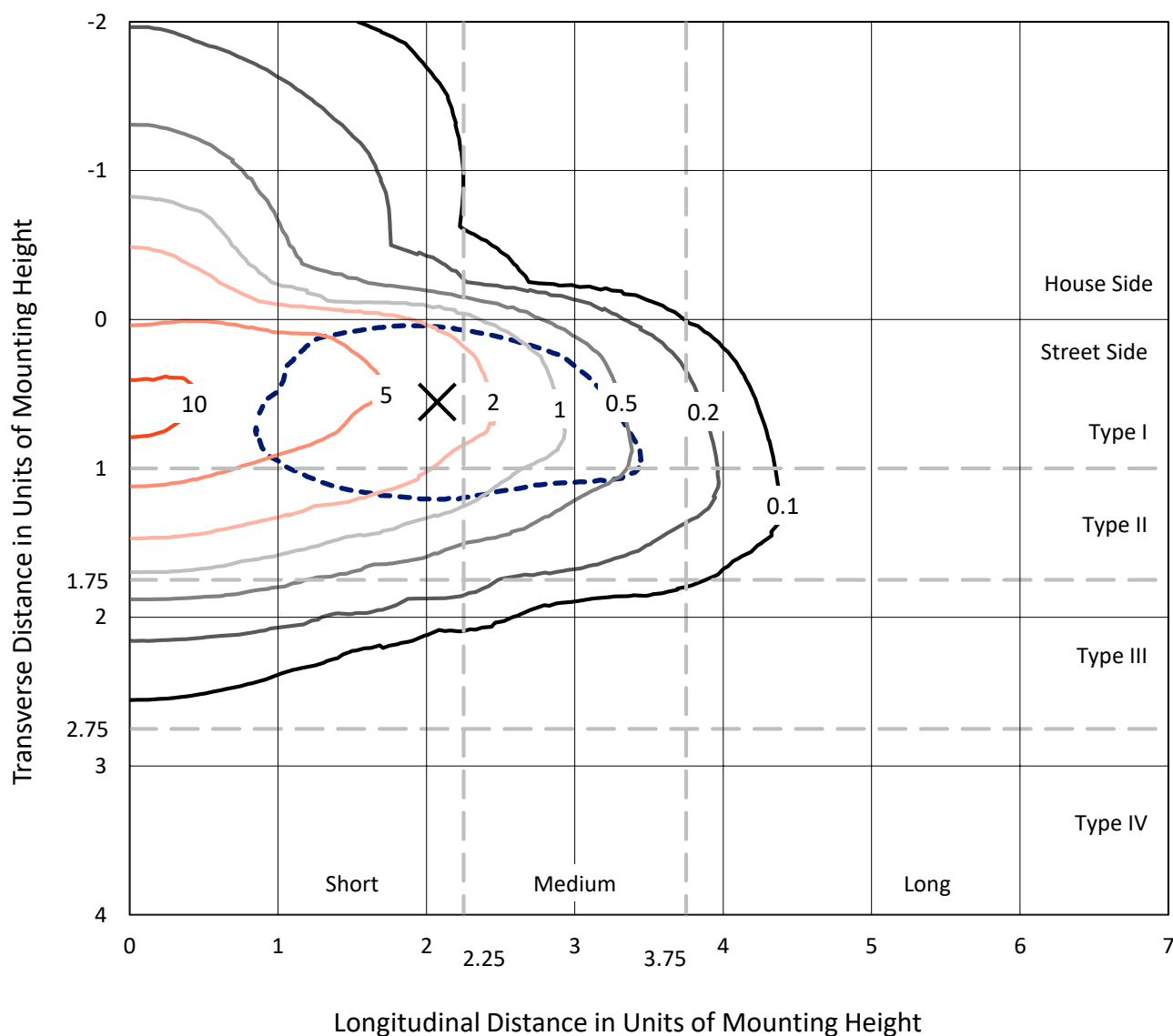
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

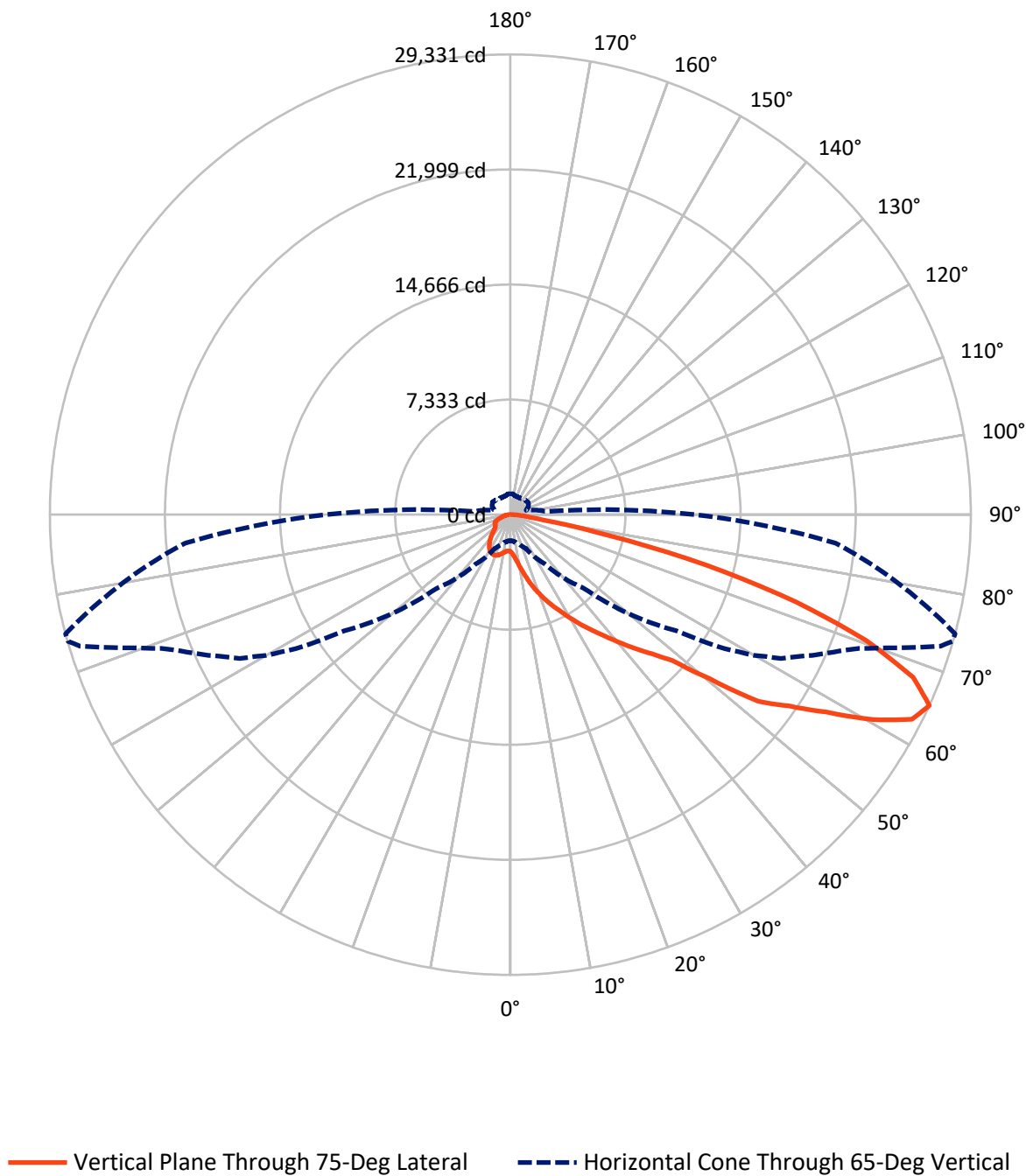


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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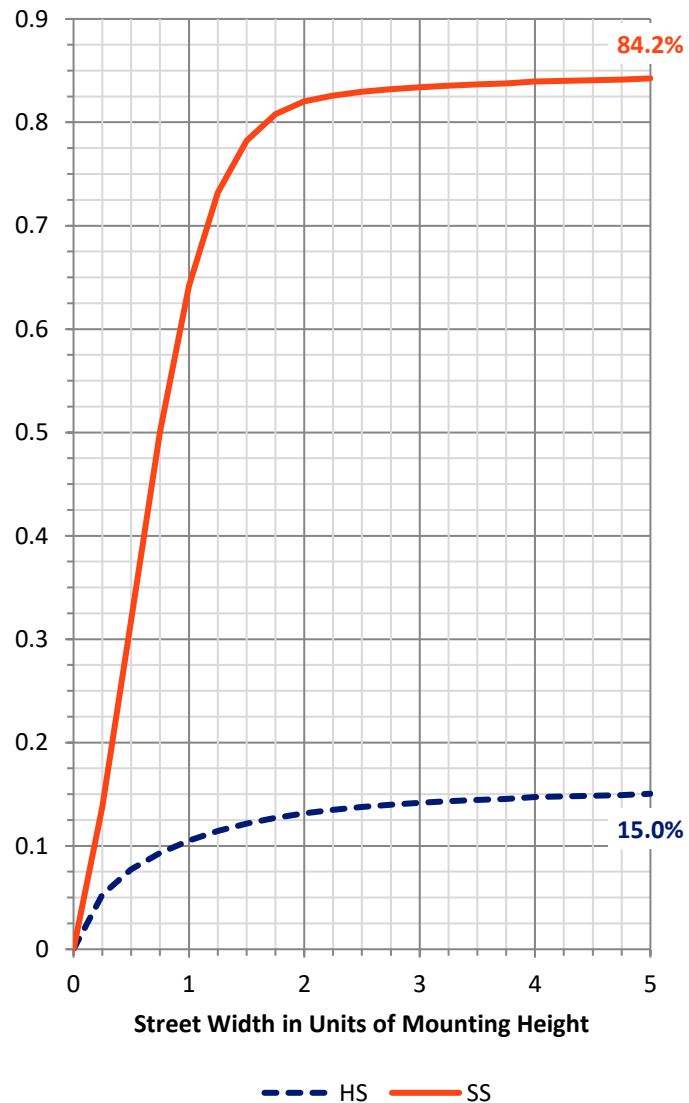
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4468.4	0.0	4468.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24513.7	0.0	24513.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	28982.1	0.0	28982.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	1.0
10°-20°	1137.5	3.9
20°-30°	2333.8	8.1
30°-40°	3926.5	13.5
40°-50°	5425.3	18.7
50°-60°	6772.4	23.4
60°-70°	6094.4	21.0
70°-80°	2554.7	8.8
80°-90°	446.3	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°	28982.1	100.0
0°-180°	28982.1	100.0

Coefficient of Utilization



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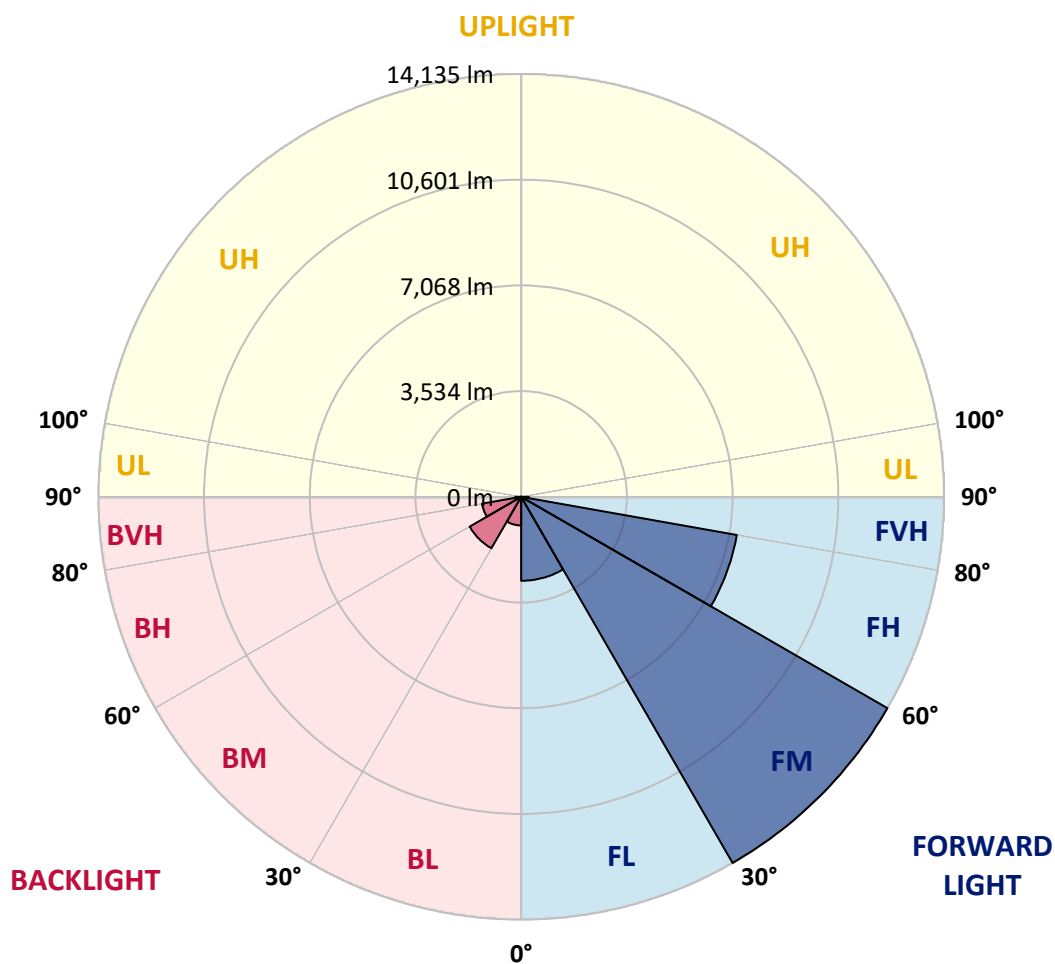
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2806.8	9.7			
FM	(30°-60°)	14135.3	48.8			
FH	(60°-80°)	7320.8	25.3			G3/7500
FVH	(80°-90°)	250.9	0.9			G3/500
BL	(0°-30°)	955.6	3.3	B2/1000		
BM	(30°-60°)	1988.9	6.9	B2/2500		
BH	(60°-80°)	1328.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	195.5	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°	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3
2.5°	2990.5	2957.5	2965.9	2910.8	2843.7	2755.9	2658.5	2657.1	2658.5	2648.9	2613.3
5°	4146.9	4107.2	4092.0	3968.6	3787.5	3529.6	3249.8	3219.6	3207.2	3175.7	3103.0
7.5°	4990.5	4968.6	4945.3	4851.9	4687.3	4399.4	4023.5	3959.0	3897.3	3882.1	3799.8
10°	5535.2	5529.6	5480.2	5455.6	5352.7	5103.1	4736.7	4674.9	4607.8	4584.5	4498.1
12.5°	5965.9	5964.5	5941.2	5948.1	5858.9	5677.7	5362.3	5306.0	5256.7	5185.3	5123.6
15°	6263.5	6264.9	6299.3	6337.6	6323.9	6201.9	5905.6	5880.9	5838.3	5788.9	5716.2
17.5°	6507.7	6514.6	6550.3	6620.2	6695.6	6686.1	6451.5	6430.9	6393.9	6326.6	6288.2
20°	7059.2	7085.3	7016.6	7016.6	7025.0	7062.0	6949.4	6932.9	6880.8	6845.2	6815.0
22.5°	7990.6	8020.8	7865.8	7708.0	7553.0	7440.5	7328.0	7348.7	7312.9	7288.2	7270.4
25°	9200.5	9223.8	8972.8	8706.7	8391.2	7979.6	7701.1	7688.8	7669.7	7654.6	7646.3
27.5°	10339.1	10348.7	10111.4	9721.8	9355.6	8764.3	8079.8	8064.8	8041.4	8012.6	7988.0
30°	11313.1	11310.3	11066.3	10694.4	10302.0	9647.7	8654.5	8608.0	8539.3	8461.1	8400.8
32.5°	12156.7	12152.6	11885.1	11499.6	11088.0	10523.0	9441.9	9345.9	9239.0	9086.6	8994.8
35°	12820.7	12818.0	12565.6	12163.7	11691.8	11347.3	10344.6	10226.6	10090.8	9886.5	9745.2
37.5°	13071.7	13071.7	12930.4	12656.0	12239.0	12003.1	11347.3	11204.7	11059.3	10827.5	10668.4
40°	12925.0	12927.7	12957.8	12907.2	12704.1	12523.0	12282.9	12197.9	12073.0	11864.6	11698.6
42.5°	12432.5	12447.6	12647.9	12893.3	12994.9	12966.2	13112.9	13074.5	12986.7	12826.2	12694.5
45°	11808.3	11854.9	12074.5	12538.0	13075.8	13348.9	13808.4	13812.4	13796.0	13709.7	13608.1
47.5°	10950.9	11016.8	11306.2	11933.2	12886.5	13720.6	14514.9	14551.9	14586.1	14530.0	14483.3
50°	9812.3	9890.5	10324.0	11155.4	12501.0	14106.0	15849.5	16017.0	16173.3	16154.1	16185.6
52.5°	8592.8	8684.8	9215.7	10141.6	11838.5	14195.2	16702.8	16975.8	17248.8	17472.4	17709.8
55°	7492.7	7443.3	7974.2	8949.5	10749.3	13793.3	17469.7	17798.9	18103.3	18377.7	18660.4
57.5°	6001.5	6082.5	6614.8	7579.1	9307.6	12658.8	17997.8	18479.2	18916.9	19370.9	19771.5
60°	4387.0	4467.9	5045.4	6024.9	7742.3	10938.6	17594.4	18324.3	19025.2	19720.8	20264.0
62.5°	2648.9	2709.3	3218.2	4151.0	5970.0	8898.7	15797.5	16754.9	17786.6	18617.9	19450.6
65°	1648.8	1683.1	1871.1	2384.1	3834.1	6643.5	12907.2	13951.0	15062.2	16117.1	16982.7
67.5°	1349.8	1362.1	1396.5	1506.2	2105.7	4332.1	9606.6	10531.2	11534.0	12554.6	13517.5
70°	1214.0	1205.7	1205.7	1212.7	1349.8	2329.3	6289.6	6891.8	7727.3	8614.8	9495.5
72.5°	1096.1	1087.7	1072.7	1052.1	1101.6	1421.1	3251.1	3705.2	4307.4	5096.2	5939.8
75°	985.0	973.9	956.1	930.1	964.3	1072.7	1561.1	1751.8	2045.4	2465.1	2935.6
77.5°	869.7	856.0	839.5	820.3	864.2	834.0	914.9	983.6	1096.1	1230.5	1407.5
80°	739.3	727.0	721.5	712.0	764.0	635.2	646.2	688.7	754.4	827.2	909.5
82.5°	578.8	578.8	600.8	605.0	662.5	456.8	482.8	519.8	554.2	592.6	631.0
85°	381.4	384.0	458.2	487.0	522.7	307.2	362.2	374.5	402.0	423.9	440.4
87.5°	119.3	128.9	279.8	310.0	300.5	174.3	222.3	227.7	246.9	262.0	275.8
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°	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3
2.5°	2613.3	2596.8	2581.7	2580.3	2569.3	2554.3	2559.7	2536.5	2537.8	2525.4	2511.8
5°	3072.8	3061.8	3007.0	2991.8	2950.6	2924.7	2920.5	2865.7	2858.8	2827.2	2793.0
7.5°	3734.1	3698.3	3621.5	3584.5	3514.6	3462.4	3437.8	3364.9	3329.3	3246.9	3209.9
10°	4426.7	4381.6	4286.8	4234.7	4167.4	4083.8	4038.6	3932.9	3891.7	3816.3	3725.7
12.5°	5068.7	5023.5	4926.1	4886.3	4797.1	4708.0	4658.6	4539.1	4485.7	4365.0	4293.7
15°	5662.7	5617.4	5532.5	5491.3	5402.1	5329.3	5263.6	5145.6	5082.4	4969.9	4876.7
17.5°	6238.9	6190.8	6116.8	6079.7	5993.3	5919.2	5847.9	5736.7	5672.3	5559.8	5476.2
20°	6773.8	6738.2	6684.7	6635.4	6548.9	6481.7	6396.6	6300.6	6207.3	6125.0	6045.5
22.5°	7240.3	7226.5	7168.9	7146.9	7072.9	7015.3	6941.2	6846.5	6779.3	6675.0	6601.0
25°	7642.2	7638.1	7610.7	7603.8	7551.7	7496.9	7480.3	7402.1	7340.4	7248.5	7171.7
27.5°	7988.0	7992.0	7985.1	8004.4	7990.6	7966.0	7967.3	7941.3	7905.6	7828.8	7761.6
30°	8372.0	8350.0	8362.3	8389.8	8398.1	8400.8	8446.1	8461.1	8458.5	8407.6	8374.7
32.5°	8915.2	8863.1	8815.0	8811.0	8838.4	8849.4	8926.2	8966.0	9000.2	9012.6	9018.1
35°	9607.9	9503.7	9403.6	9350.1	9303.4	9315.8	9370.6	9435.1	9510.6	9562.7	9624.4
37.5°	10480.3	10352.9	10175.9	10049.6	10018.1	9949.5	9985.2	10036.0	10110.1	10190.9	10298.0
40°	11538.1	11344.6	11145.7	10978.4	10887.8	10761.6	10760.3	10750.7	10795.9	10871.4	11022.3
42.5°	12556.0	12384.4	12173.2	11997.6	11879.6	11711.0	11676.6	11587.5	11608.0	11674.0	11820.6
45°	13509.4	13368.0	13239.1	13036.0	12935.9	12753.5	12695.8	12590.3	12531.3	12561.4	12708.2
47.5°	14432.5	14342.0	14207.5	14075.9	13999.1	13835.8	13761.7	13686.3	13610.9	13608.1	13761.7
50°	16232.3	16184.2	16025.2	15887.9	15925.0	15724.7	15737.0	15534.1	15625.9	15636.9	15959.3
52.5°	17923.8	18091.0	18209.0	18353.1	18446.4	18464.2	18525.9	18617.9	18729.0	18948.4	19247.4
55°	18892.2	19102.2	19224.1	19333.9	19515.1	19553.4	19656.3	19778.3	19875.8	20122.8	20376.5
57.5°	20043.1	20432.7	20622.0	20796.2	21040.4	21133.7	21305.1	21438.2	21564.4	21856.7	22163.9
60°	20752.3	21227.0	21612.5	21888.1	22194.1	22413.6	22672.8	22881.3	23177.6	23527.5	23985.5
62.5°	20188.5	20885.4	21397.2	21870.3	22285.9	22705.7	23077.5	23467.1	23917.1	24446.5	25157.2
65°	17942.9	18652.0	19528.7	20019.8	20569.9	21217.4	21782.6	22413.6	23026.7	23797.6	24848.5
67.5°	14444.8	15269.3	16254.3	16749.5	17381.8	18104.8	18738.5	19509.5	20225.5	21159.7	22458.8
70°	10411.9	11477.6	12306.3	12823.4	13561.5	14306.3	14918.1	15815.3	16407.9	17365.4	18708.4
72.5°	6592.8	7433.7	8448.8	9100.4	9756.1	10510.6	11136.1	11909.8	12462.6	13335.1	14551.9
75°	3544.7	4164.8	5056.4	5675.0	6377.5	7022.2	7754.6	8273.2	8682.0	9372.0	10359.8
77.5°	1661.2	2038.4	2489.8	2965.9	3441.7	3938.4	4421.2	4841.1	5016.6	5411.7	5994.7
80°	1008.3	1130.4	1262.1	1408.8	1607.7	1768.3	1980.9	2134.5	2145.5	2270.3	2448.6
82.5°	673.6	718.8	758.6	795.6	846.4	886.2	931.4	985.0	1007.0	1035.7	1093.3
85°	459.6	481.5	489.7	513.1	507.5	521.2	539.0	556.9	566.5	565.2	591.2
87.5°	282.6	293.6	299.1	304.5	300.5	294.9	303.2	312.8	315.5	307.2	310.0
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°	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3
2.5°	2514.5	2502.1	2489.8	2481.6	2478.8	2406.1	2374.5	2354.0	2310.1	2274.4	2245.6
5°	2773.8	2747.7	2727.1	2702.4	2688.7	2504.9	2437.7	2391.0	2314.2	2268.9	2227.8
7.5°	3190.8	3118.0	3075.5	3027.6	2986.4	2654.5	2543.3	2470.6	2363.6	2303.1	2256.5
10°	3664.0	3588.6	3521.3	3447.2	3382.7	2853.3	2691.4	2578.9	2437.7	2359.5	2297.7
12.5°	4192.2	4118.1	4033.1	3938.4	3856.1	3105.7	2880.7	2720.2	2526.8	2422.6	2336.2
15°	4816.3	4686.0	4583.1	4473.4	4377.4	3407.5	3101.7	2879.4	2621.4	2480.1	2364.9
17.5°	5396.7	5259.4	5119.5	5023.5	4912.4	3746.4	3323.7	3041.2	2699.7	2517.3	2370.5
20°	5963.2	5813.5	5692.9	5563.9	5447.3	4097.5	3561.2	3184.0	2750.4	2518.7	2336.2
22.5°	6462.4	6369.2	6234.8	6094.8	5976.8	4448.7	3783.4	3304.6	2769.6	2487.1	2275.8
25°	7030.4	6931.6	6767.0	6649.1	6517.4	4806.8	4001.5	3397.9	2758.7	2428.1	2182.5
27.5°	7636.6	7527.0	7358.3	7234.8	7075.6	5178.5	4201.8	3465.1	2717.5	2332.0	2057.7
30°	8269.1	8169.0	8003.0	7878.1	7717.6	5572.2	4425.3	3510.4	2635.3	2199.0	1912.2
32.5°	8948.2	8864.4	8699.9	8569.5	8398.1	5998.8	4633.9	3524.1	2510.3	2041.2	1758.6
35°	9592.9	9535.3	9396.8	9274.6	9096.3	6402.1	4854.7	3517.3	2362.1	1868.4	1618.6
37.5°	10318.6	10284.2	10215.6	10060.7	9842.5	6949.4	5119.5	3488.4	2181.2	1696.9	1511.7
40°	11092.2	11094.9	11020.9	10915.3	10712.3	7613.4	5435.0	3432.2	1983.6	1546.0	1414.4
42.5°	11911.2	11953.7	11918.0	11842.6	11647.8	8282.8	5812.3	3363.6	1791.6	1399.2	1318.3
45°	12849.4	12901.7	12956.5	12845.4	12656.0	9166.3	6308.8	3274.4	1584.4	1277.1	1252.4
47.5°	13931.8	14014.1	14063.6	14064.8	13875.6	10261.0	7115.4	3221.0	1400.6	1194.9	1220.9
50°	16215.8	16241.9	16358.6	16561.5	16416.1	12794.6	8524.3	3188.0	1275.7	1144.1	1197.6
52.5°	19506.7	19793.4	19995.1	19981.4	19783.9	14403.7	9300.7	3018.0	1201.7	1124.9	1186.5
55°	20847.0	21205.0	21578.1	21676.9	21523.3	15776.8	10034.6	2847.9	1166.1	1138.6	1190.7
57.5°	22633.0	23236.6	23748.3	23963.8	23741.5	17534.2	11000.3	2758.7	1155.1	1175.6	1216.8
60°	24719.5	25465.8	26138.0	26524.8	26524.8	19553.4	12001.7	2721.6	1139.9	1230.5	1260.7
62.5°	26059.8	27155.9	28171.0	28737.5	28721.0	20959.4	12446.2	2595.5	1105.7	1268.9	1321.1
65°	26065.2	27368.5	28662.0	29298.5	29331.4	20786.6	11712.3	2292.3	1042.6	1274.4	1381.4
67.5°	23892.4	25281.9	26789.5	27501.5	27666.1	19135.0	10138.8	1884.8	939.6	1219.6	1403.3
70°	20178.9	21535.6	23074.8	23774.4	24066.5	16311.9	8166.2	1452.7	808.0	1098.8	1358.1
72.5°	15897.6	17228.2	18299.7	18811.2	19039.0	12468.1	5946.7	1097.4	662.5	926.0	1235.9
75°	11255.5	12254.1	12823.4	12937.3	12972.9	7516.0	3613.3	816.1	546.0	720.2	1044.0
77.5°	6352.8	6780.7	6734.0	6784.9	6362.2	2901.3	1573.5	584.4	449.9	547.4	809.4
80°	2480.1	2557.0	2401.9	2354.0	2159.2	1079.6	694.2	407.4	359.4	414.3	566.5
82.5°	1093.3	1128.9	1096.1	1104.3	1056.3	556.9	415.6	294.9	274.3	303.2	375.9
85°	602.2	613.2	610.4	628.2	602.2	222.3	197.5	181.1	192.1	205.7	241.5
87.5°	293.6	296.3	286.7	301.8	292.2	112.5	97.4	102.9	112.5	115.3	115.3
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°	2355.3	2355.3	2355.3	2355.3	2355.3	2355.3
2.5°	2225.1	2214.0	2215.4	2212.7	2207.1	2207.1
5°	2205.8	2194.8	2194.8	2192.1	2185.3	2186.6
7.5°	2225.1	2207.1	2200.4	2190.7	2181.2	2181.2
10°	2247.0	2215.4	2196.2	2179.7	2167.3	2167.3
12.5°	2263.5	2214.0	2182.5	2160.6	2148.2	2148.2
15°	2268.9	2204.5	2160.6	2134.5	2123.6	2122.2
17.5°	2251.1	2167.3	2113.9	2083.7	2070.0	2065.9
20°	2196.2	2100.2	2035.7	2001.4	1982.2	1975.4
22.5°	2113.9	2004.2	1928.8	1893.0	1868.4	1864.3
25°	1998.7	1880.7	1806.6	1772.3	1758.6	1754.4
27.5°	1864.3	1754.4	1691.5	1669.5	1657.1	1655.8
30°	1736.6	1643.4	1596.8	1580.3	1565.2	1562.4
32.5°	1617.4	1558.4	1540.5	1517.2	1481.5	1477.4
35°	1532.3	1526.8	1514.5	1462.3	1418.4	1406.0
37.5°	1480.1	1530.9	1467.8	1364.9	1333.4	1330.7
40°	1450.0	1488.3	1380.1	1344.3	1347.0	1344.3
42.5°	1381.4	1421.1	1382.7	1366.3	1377.3	1380.1
45°	1312.8	1356.7	1403.3	1392.4	1418.4	1418.4
47.5°	1274.4	1340.3	1402.1	1402.1	1440.4	1454.1
50°	1230.5	1326.5	1380.1	1399.2	1429.4	1418.4
52.5°	1227.7	1303.3	1348.5	1382.7	1396.5	1384.1
55°	1231.9	1284.1	1316.9	1355.4	1371.8	1373.2
57.5°	1237.4	1273.0	1294.9	1312.8	1362.1	1362.1
60°	1251.0	1263.4	1275.7	1285.3	1349.8	1351.2
62.5°	1273.0	1253.9	1251.0	1260.7	1343.1	1337.5
65°	1307.3	1240.1	1219.6	1229.1	1336.1	1319.7
67.5°	1353.9	1219.6	1179.8	1186.5	1330.7	1294.9
70°	1396.5	1186.5	1130.4	1123.5	1278.6	1215.4
72.5°	1400.6	1148.2	1061.8	1041.1	1111.1	1050.7
75°	1332.0	1122.1	986.3	926.0	917.7	909.5
77.5°	1200.3	1107.1	898.5	803.8	787.4	792.9
80°	1004.1	1050.7	792.9	680.3	769.6	760.0
82.5°	750.4	927.3	673.6	602.2	600.8	530.9
85°	417.1	723.0	548.7	451.4	314.1	304.5
87.5°	116.6	402.0	384.0	255.1	174.3	181.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)