

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: P193162

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193162
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-04-LED-E1-T2R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26541.3 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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



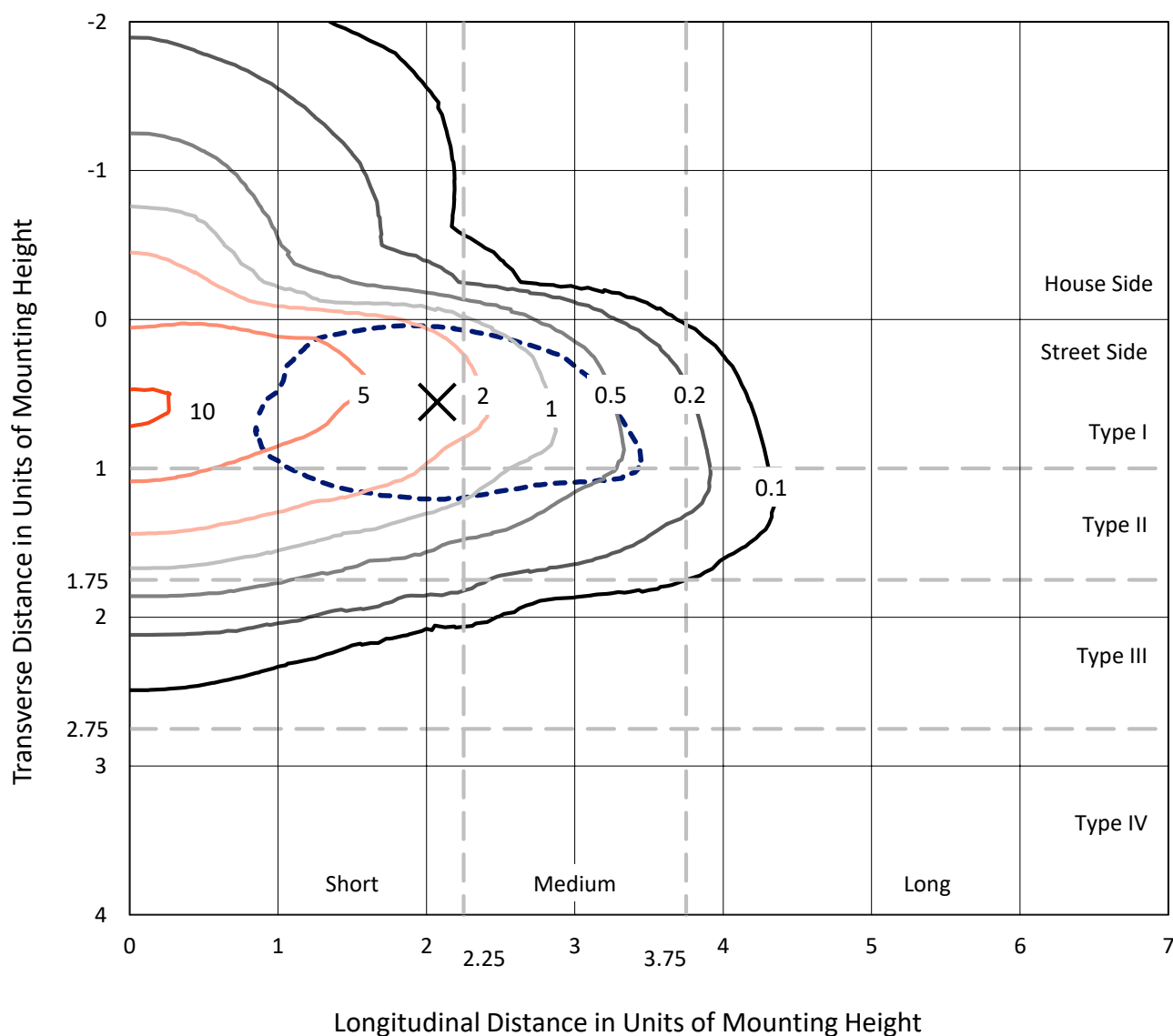
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

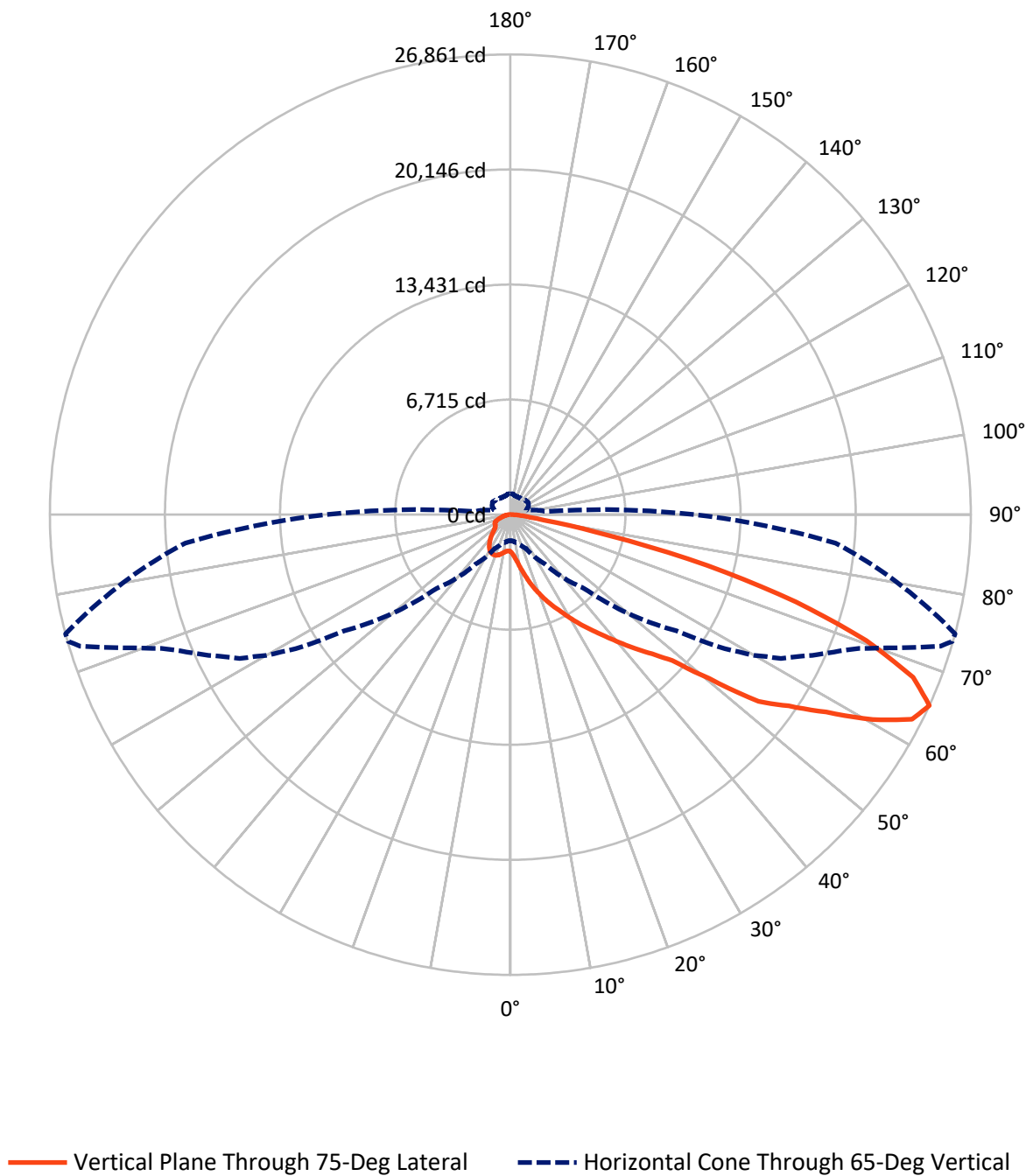


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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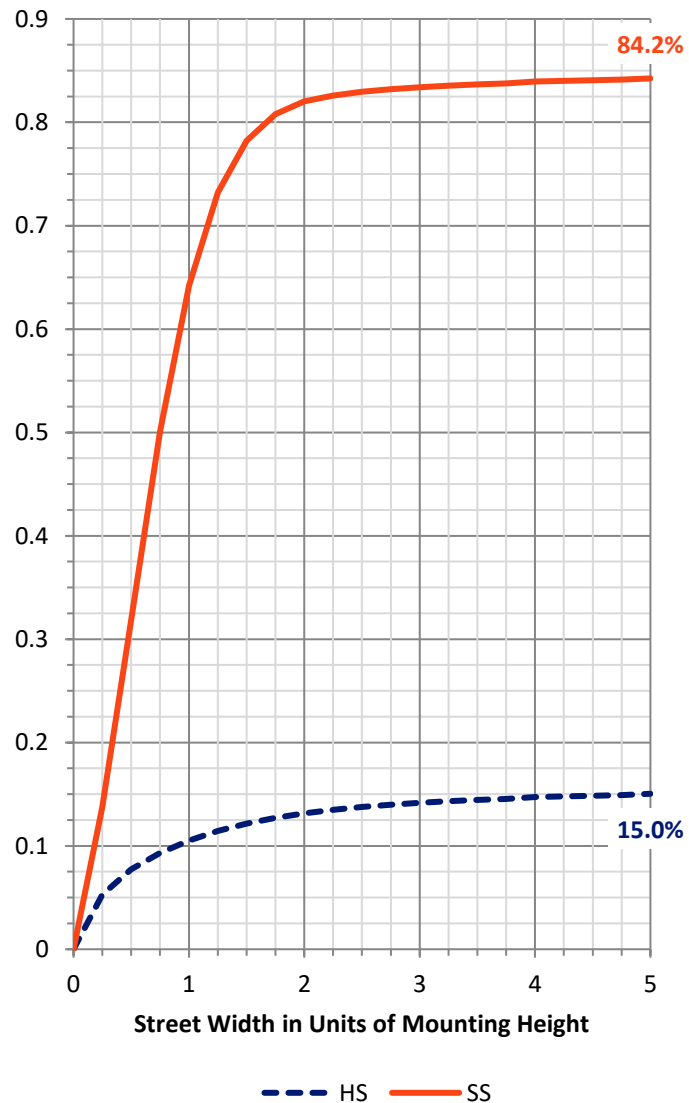
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4092.0	0.0	4092.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	22449.2	0.0	22449.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	26541.3	0.0	26541.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.0
10°-20°	1041.7	3.9
20°-30°	2137.2	8.1
30°-40°	3595.8	13.5
40°-50°	4968.4	18.7
50°-60°	6202.0	23.4
60°-70°	5581.2	21.0
70°-80°	2339.6	8.8
80°-90°	408.7	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°	26541.3	100.0
0°-180°	26541.3	100.0

Coefficient of Utilization



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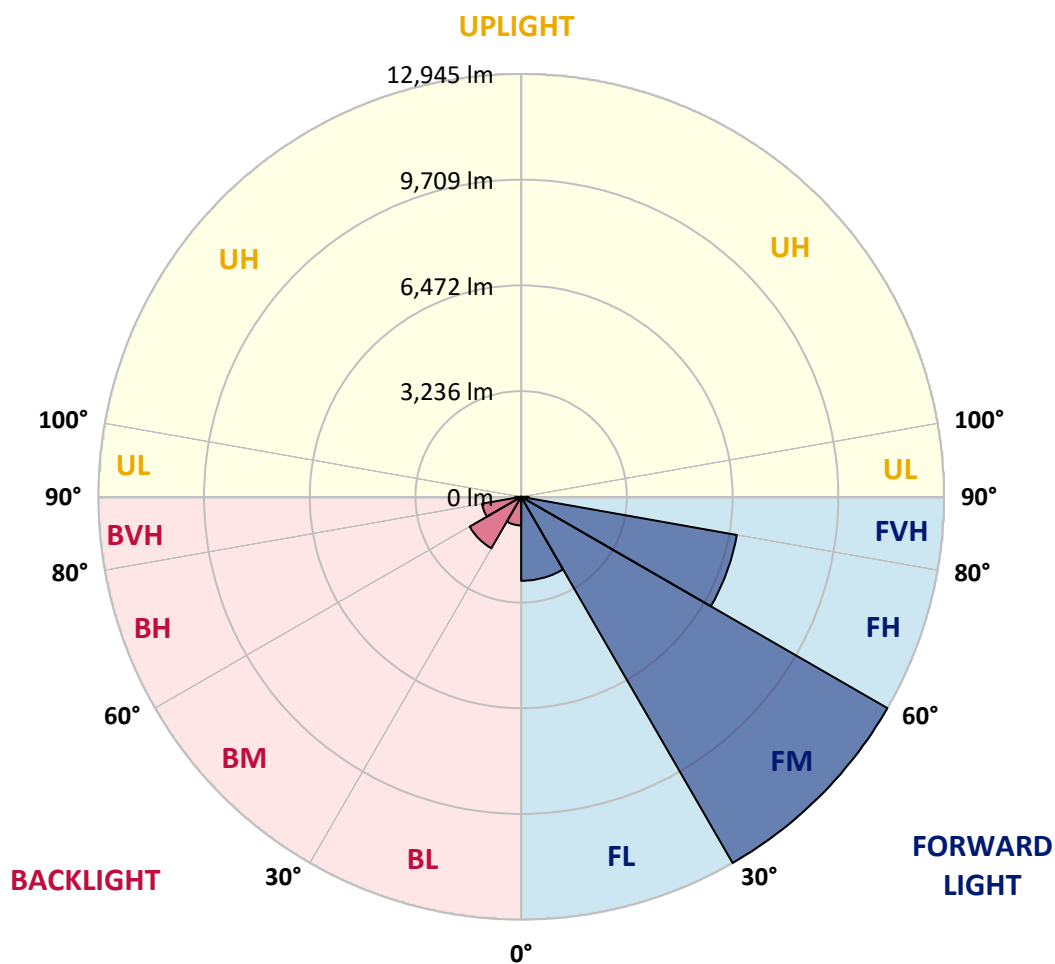
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2570.4	9.7			
FM	(30°-60°)	12944.8	48.8			
FH	(60°-80°)	6704.2	25.3			G3/7500
FVH	(80°-90°)	229.7	0.9			G3/500
BL	(0°-30°)	875.1	3.3	B2/1000		
BM	(30°-60°)	1821.4	6.9	B2/2500		
BH	(60°-80°)	1216.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	179.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0
2.5°	2738.6	2708.4	2715.9	2665.8	2604.2	2523.8	2434.7	2433.3	2434.7	2425.8	2393.3
5°	3797.7	3761.2	3747.4	3634.3	3468.6	3232.3	2976.1	2948.5	2937.1	2908.3	2841.7
7.5°	4570.2	4550.1	4528.8	4443.3	4292.6	4028.8	3684.6	3625.6	3569.1	3555.2	3479.8
10°	5069.0	5063.9	5018.8	4996.1	4901.9	4673.2	4337.8	4281.4	4219.7	4198.4	4119.3
12.5°	5463.4	5462.2	5440.8	5447.1	5365.5	5199.6	4910.6	4859.2	4814.0	4748.6	4692.1
15°	5736.0	5737.3	5768.7	5803.9	5791.3	5679.6	5408.2	5385.6	5346.6	5301.4	5234.8
17.5°	5959.6	5966.0	5998.6	6062.7	6131.7	6123.0	5908.2	5889.3	5855.4	5793.8	5758.6
20°	6464.7	6488.6	6425.7	6425.7	6433.3	6467.2	6364.2	6349.0	6301.3	6268.7	6241.1
22.5°	7317.6	7345.3	7203.4	7058.9	6916.8	6814.0	6710.9	6729.8	6697.0	6674.4	6658.2
25°	8425.6	8447.1	8217.2	7973.4	7684.5	7307.6	7052.5	7041.3	7023.7	7009.8	7002.3
27.5°	9468.4	9477.1	9259.8	8903.1	8567.7	8026.1	7399.4	7385.5	7364.2	7337.8	7315.1
30°	10360.3	10357.8	10134.3	9793.8	9434.4	8835.2	7925.6	7882.9	7820.1	7748.5	7693.3
32.5°	11132.9	11129.1	10884.2	10531.2	10154.3	9636.6	8646.8	8558.9	8460.8	8321.4	8237.3
35°	11740.9	11738.4	11507.3	11139.2	10707.1	10391.7	9473.5	9365.3	9241.0	9053.8	8924.4
37.5°	11970.9	11970.9	11841.4	11590.2	11208.3	10992.2	10391.7	10261.1	10127.9	9915.6	9769.9
40°	11836.4	11838.9	11866.5	11820.1	11634.2	11468.3	11248.5	11170.5	11056.3	10865.3	10713.3
42.5°	11385.4	11399.2	11582.7	11807.5	11900.5	11874.1	12008.4	11973.2	11893.0	11745.9	11625.4
45°	10813.8	10856.5	11057.6	11482.2	11974.6	12224.6	12645.4	12649.2	12634.0	12555.0	12462.0
47.5°	10028.7	10089.0	10354.1	10928.1	11801.2	12565.1	13292.4	13326.4	13357.7	13306.2	13263.5
50°	8985.9	9057.6	9454.5	10215.8	11448.1	12918.0	14514.8	14667.9	14811.1	14793.6	14822.5
52.5°	7869.2	7953.3	8439.5	9287.5	10841.5	12999.6	15296.1	15546.2	15796.1	16000.9	16218.2
55°	6861.7	6816.4	7302.6	8195.7	9844.0	12631.6	15998.4	16299.9	16578.8	16830.0	17088.8
57.5°	5496.1	5570.2	6057.7	6940.8	8523.7	11592.7	16482.0	16922.9	17323.7	17739.6	18106.3
60°	4017.5	4091.6	4620.5	5517.5	7090.3	10017.3	16112.7	16781.0	17422.9	18059.9	18557.3
62.5°	2425.8	2481.1	2947.2	3801.4	5467.3	8149.3	14467.0	15343.9	16288.6	17049.9	17812.4
65°	1510.0	1541.4	1713.5	2183.3	3511.3	6084.0	11820.1	12776.1	13793.7	14759.8	15552.4
67.5°	1236.2	1247.4	1278.9	1379.4	1928.3	3967.2	8797.5	9644.2	10562.5	11497.3	12379.1
70°	1111.8	1104.3	1104.3	1110.5	1236.2	2133.1	5759.9	6311.4	7076.5	7889.3	8695.7
72.5°	1003.8	996.2	982.4	963.5	1008.8	1301.5	2977.4	3393.1	3944.6	4667.0	5439.6
75°	901.9	892.0	875.6	851.7	883.2	982.4	1429.6	1604.3	1873.0	2257.6	2688.5
77.5°	796.5	783.9	768.8	751.2	791.5	763.8	837.9	900.8	1003.8	1126.9	1288.9
80°	677.1	665.8	660.8	651.9	699.7	581.7	591.7	630.7	690.9	757.5	832.9
82.5°	530.1	530.1	550.2	554.1	606.7	418.4	442.2	476.2	507.5	542.7	577.9
85°	349.2	351.7	419.5	446.0	478.7	281.5	331.6	343.0	368.1	388.2	403.2
87.5°	109.3	118.1	256.3	284.0	275.2	159.5	203.5	208.5	226.1	240.0	252.5
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°	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0
2.5°	2393.3	2378.1	2364.3	2363.1	2353.0	2339.1	2344.1	2322.9	2324.1	2312.8	2300.2
5°	2814.0	2803.9	2753.7	2739.9	2702.2	2678.4	2674.5	2624.3	2618.1	2589.1	2557.8
7.5°	3419.5	3386.8	3316.4	3282.5	3218.6	3170.8	3148.2	3081.5	3048.9	2973.6	2939.6
10°	4053.9	4012.4	3925.8	3878.0	3816.5	3739.8	3698.4	3601.6	3564.0	3494.8	3411.9
12.5°	4641.9	4600.4	4511.2	4474.8	4393.1	4311.5	4266.2	4157.0	4107.9	3997.4	3932.0
15°	5185.8	5144.4	5066.5	5028.7	4947.2	4880.5	4820.2	4712.3	4654.5	4551.4	4466.0
17.5°	5713.3	5669.5	5601.6	5567.8	5488.5	5420.7	5355.5	5253.6	5194.6	5091.6	5015.0
20°	6203.4	6170.8	6121.7	6076.5	5997.3	5935.8	5857.9	5770.0	5684.5	5609.2	5536.2
22.5°	6630.5	6618.0	6565.2	6545.0	6477.2	6424.5	6356.6	6270.0	6208.4	6112.9	6045.1
25°	6998.6	6994.8	6969.6	6963.4	6915.7	6865.5	6850.3	6778.8	6722.1	6638.0	6567.7
27.5°	7315.1	7318.9	7312.6	7330.2	7317.6	7295.0	7296.4	7272.4	7239.7	7169.5	7107.9
30°	7666.9	7646.8	7658.1	7683.2	7690.8	7693.3	7734.8	7748.5	7746.1	7699.6	7669.5
32.5°	8164.4	8116.7	8072.7	8068.9	8094.0	8104.1	8174.4	8210.9	8242.3	8253.6	8258.6
35°	8798.7	8703.3	8611.6	8562.6	8519.9	8531.2	8581.4	8640.6	8709.6	8757.3	8813.8
37.5°	9597.8	9481.0	9318.8	9203.4	9174.4	9111.5	9144.2	9190.8	9258.6	9332.7	9430.7
40°	10566.4	10389.3	10207.0	10053.8	9970.9	9855.3	9854.1	9845.3	9886.7	9955.8	10094.0
42.5°	11498.5	11341.4	11147.9	10987.2	10879.2	10724.7	10693.2	10611.6	10630.4	10690.7	10825.1
45°	12371.5	12242.2	12124.1	11938.2	11846.4	11679.4	11626.6	11529.9	11475.8	11503.5	11638.0
47.5°	13217.0	13134.2	13011.0	12890.4	12820.1	12670.6	12602.7	12533.6	12464.6	12462.0	12602.7
50°	14865.3	14821.2	14675.4	14549.9	14583.8	14400.4	14411.8	14225.8	14310.0	14320.1	14615.3
52.5°	16414.2	16567.4	16675.4	16807.4	16892.8	16909.2	16965.7	17049.9	17151.6	17352.7	17626.5
55°	17301.1	17493.3	17605.2	17705.6	17871.4	17906.6	18000.8	18112.7	18201.8	18428.0	18660.4
57.5°	18355.1	18711.8	18885.3	19044.8	19268.4	19353.8	19510.9	19632.7	19748.3	20015.9	20297.3
60°	19004.5	19439.3	19792.2	20044.8	20325.0	20525.9	20763.3	20954.3	21225.7	21546.0	21965.6
62.5°	18488.3	19126.5	19595.0	20028.5	20409.1	20793.4	21133.9	21490.8	21902.7	22387.7	23038.4
65°	16431.8	17081.3	17884.0	18333.7	18837.5	19430.4	19948.0	20525.9	21087.5	21793.5	22755.8
67.5°	13228.3	13983.3	14885.4	15338.8	15918.0	16580.0	17160.4	17866.4	18522.1	19377.6	20567.4
70°	9534.9	10511.1	11269.9	11743.4	12419.3	13101.5	13661.8	14483.3	15026.0	15902.9	17132.7
72.5°	6037.5	6807.6	7737.3	8334.0	8934.4	9625.4	10198.3	10906.8	11413.0	12212.0	13326.4
75°	3246.2	3814.0	4630.5	5197.1	5840.4	6430.8	7101.7	7576.5	7950.8	8582.8	9487.2
77.5°	1521.3	1866.8	2280.1	2715.9	3151.9	3606.6	4048.9	4433.3	4594.2	4955.9	5489.8
80°	923.4	1035.1	1155.8	1290.2	1472.4	1619.3	1814.0	1954.7	1964.8	2079.1	2242.4
82.5°	616.8	658.3	694.7	728.6	775.0	811.6	853.0	901.9	922.0	948.5	1001.3
85°	420.8	441.0	448.5	469.9	464.8	477.4	493.8	510.0	518.9	517.6	541.5
87.5°	258.8	268.9	273.9	278.9	275.2	270.1	277.6	286.5	289.0	281.5	284.0
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°	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0
2.5°	2302.7	2291.3	2280.1	2272.6	2270.1	2203.4	2174.6	2155.6	2115.5	2082.9	2056.5
5°	2540.2	2516.2	2497.4	2474.8	2462.2	2293.9	2232.3	2189.7	2119.3	2077.9	2040.2
7.5°	2922.0	2855.5	2816.4	2772.6	2734.9	2430.8	2329.1	2262.5	2164.5	2109.2	2066.5
10°	3355.5	3286.4	3224.8	3156.9	3097.9	2613.1	2464.8	2361.7	2232.3	2160.7	2104.3
12.5°	3839.2	3771.3	3693.4	3606.6	3531.4	2844.1	2638.2	2491.1	2314.0	2218.5	2139.4
15°	4410.7	4291.3	4197.0	4096.6	4008.7	3120.6	2840.4	2636.9	2400.7	2271.3	2165.7
17.5°	4942.2	4816.4	4688.4	4600.4	4498.6	3430.8	3043.9	2785.1	2472.3	2305.3	2170.8
20°	5460.9	5323.9	5213.5	5095.3	4988.6	3752.4	3261.3	2915.8	2518.8	2306.5	2139.4
22.5°	5918.2	5832.8	5709.7	5581.5	5473.5	4074.1	3464.7	3026.3	2536.4	2277.6	2084.1
25°	6438.3	6347.9	6197.0	6089.0	5968.5	4401.9	3664.4	3111.7	2526.3	2223.5	1998.7
27.5°	6993.5	6893.0	6738.6	6625.5	6479.7	4742.4	3847.9	3173.3	2488.6	2135.6	1884.4
30°	7572.6	7481.0	7329.0	7214.6	7067.7	5102.9	4052.7	3214.7	2413.2	2013.7	1751.2
32.5°	8194.6	8117.9	7967.1	7847.8	7690.8	5493.5	4243.6	3227.3	2299.0	1869.3	1610.5
35°	8785.0	8732.2	8605.4	8493.5	8330.3	5863.0	4445.9	3221.1	2163.3	1711.0	1482.4
37.5°	9449.5	9418.1	9355.4	9213.4	9013.6	6364.2	4688.4	3194.6	1997.5	1554.0	1384.5
40°	10158.1	10160.6	10092.8	9996.0	9810.1	6972.2	4977.3	3143.2	1816.6	1415.8	1295.2
42.5°	10908.0	10947.0	10914.4	10845.2	10666.9	7585.3	5322.8	3080.3	1640.6	1281.4	1207.2
45°	11767.3	11815.1	11865.3	11763.5	11590.2	8394.3	5777.5	2998.6	1451.0	1169.6	1147.0
47.5°	12758.5	12833.9	12879.1	12880.3	12707.0	9396.8	6516.2	2949.7	1282.6	1094.2	1118.0
50°	14850.2	14874.0	14980.7	15166.8	15033.5	11717.1	7806.3	2919.5	1168.3	1047.7	1096.8
52.5°	17863.9	18126.4	18311.1	18298.5	18117.7	13190.7	8517.5	2763.7	1100.5	1030.1	1086.7
55°	19091.3	19419.2	19760.8	19851.4	19710.6	14448.1	9189.5	2608.0	1067.8	1042.7	1090.4
57.5°	20726.9	21279.7	21748.3	21945.5	21741.9	16057.4	10073.9	2526.3	1057.7	1076.6	1114.3
60°	22637.7	23321.1	23936.6	24290.8	24290.8	17906.6	10990.9	2492.4	1044.0	1126.9	1154.6
62.5°	23865.1	24868.7	25798.4	26317.3	26302.2	19194.2	11397.9	2376.8	1012.5	1162.1	1209.7
65°	23870.1	25063.5	26248.1	26831.1	26861.2	19036.0	10725.9	2099.2	954.7	1167.1	1265.0
67.5°	21880.1	23152.7	24533.4	25185.4	25336.1	17523.4	9285.0	1726.1	860.5	1116.8	1285.1
70°	18479.4	19722.0	21131.4	21772.1	22039.7	14938.2	7478.5	1330.3	739.9	1006.3	1243.7
72.5°	14558.7	15777.2	16758.4	17227.0	17435.5	11418.0	5445.8	1004.9	606.7	848.0	1131.9
75°	10307.5	11222.1	11743.4	11847.7	11880.5	6883.0	3308.9	747.5	500.0	659.5	956.0
77.5°	5817.7	6209.6	6166.9	6213.5	5826.5	2656.9	1440.9	535.2	412.0	501.3	741.3
80°	2271.3	2341.7	2199.7	2155.6	1977.4	988.7	635.7	373.1	329.1	379.3	518.9
82.5°	1001.3	1033.9	1003.8	1011.3	967.3	510.0	380.7	270.1	251.3	277.6	344.1
85°	551.5	561.6	559.1	575.4	551.5	203.5	181.0	165.8	175.9	188.5	221.1
87.5°	268.9	271.4	262.6	276.4	267.5	103.0	89.1	94.2	103.0	105.6	105.6
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°	2157.0	2157.0	2157.0	2157.0	2157.0	2157.0
2.5°	2037.6	2027.7	2028.8	2026.3	2021.3	2021.3
5°	2020.1	2010.1	2010.1	2007.5	2001.2	2002.5
7.5°	2037.6	2021.3	2015.1	2006.2	1997.5	1997.5
10°	2057.8	2028.8	2011.3	1996.1	1984.9	1984.9
12.5°	2072.8	2027.7	1998.7	1978.5	1967.3	1967.3
15°	2077.9	2018.8	1978.5	1954.7	1944.7	1943.4
17.5°	2061.5	1984.9	1935.8	1908.2	1895.6	1892.0
20°	2011.3	1923.3	1864.3	1832.9	1815.3	1809.0
22.5°	1935.8	1835.3	1766.2	1733.6	1711.0	1707.2
25°	1830.3	1722.4	1654.5	1623.0	1610.5	1606.7
27.5°	1707.2	1606.7	1549.0	1528.9	1517.5	1516.3
30°	1590.4	1504.9	1462.3	1447.2	1433.4	1430.9
32.5°	1481.1	1427.2	1410.7	1389.4	1356.8	1352.9
35°	1403.2	1398.2	1386.9	1339.2	1299.0	1287.6
37.5°	1355.5	1402.1	1344.2	1249.9	1221.1	1218.6
40°	1327.8	1363.0	1263.8	1231.2	1233.6	1231.2
42.5°	1265.0	1301.5	1266.4	1251.2	1261.3	1263.8
45°	1202.2	1242.4	1285.1	1275.0	1299.0	1299.0
47.5°	1167.1	1227.3	1283.9	1283.9	1319.1	1331.7
50°	1126.9	1214.8	1263.8	1281.4	1309.0	1299.0
52.5°	1124.4	1193.4	1234.8	1266.4	1278.9	1267.5
55°	1128.1	1175.8	1206.0	1241.1	1256.3	1257.5
57.5°	1133.1	1165.8	1185.9	1202.2	1247.4	1247.4
60°	1145.7	1157.0	1168.3	1177.2	1236.2	1237.4
62.5°	1165.8	1148.2	1145.7	1154.6	1229.8	1224.8
65°	1197.3	1135.6	1116.8	1125.6	1223.6	1208.5
67.5°	1239.9	1116.8	1080.3	1086.7	1218.6	1185.9
70°	1278.9	1086.7	1035.1	1028.9	1170.8	1113.1
72.5°	1282.6	1051.5	972.3	953.5	1017.5	962.2
75°	1219.8	1027.6	903.2	848.0	840.4	832.9
77.5°	1099.2	1013.8	822.8	736.2	721.1	726.1
80°	919.5	962.2	726.1	623.1	704.7	696.0
82.5°	687.1	849.3	616.8	551.5	550.2	486.2
85°	381.9	662.0	502.5	413.3	287.7	278.9
87.5°	106.7	368.1	351.7	233.7	159.5	165.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)