

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: P324267

Luminaire Tested: **GLEON-SA3A-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7753 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

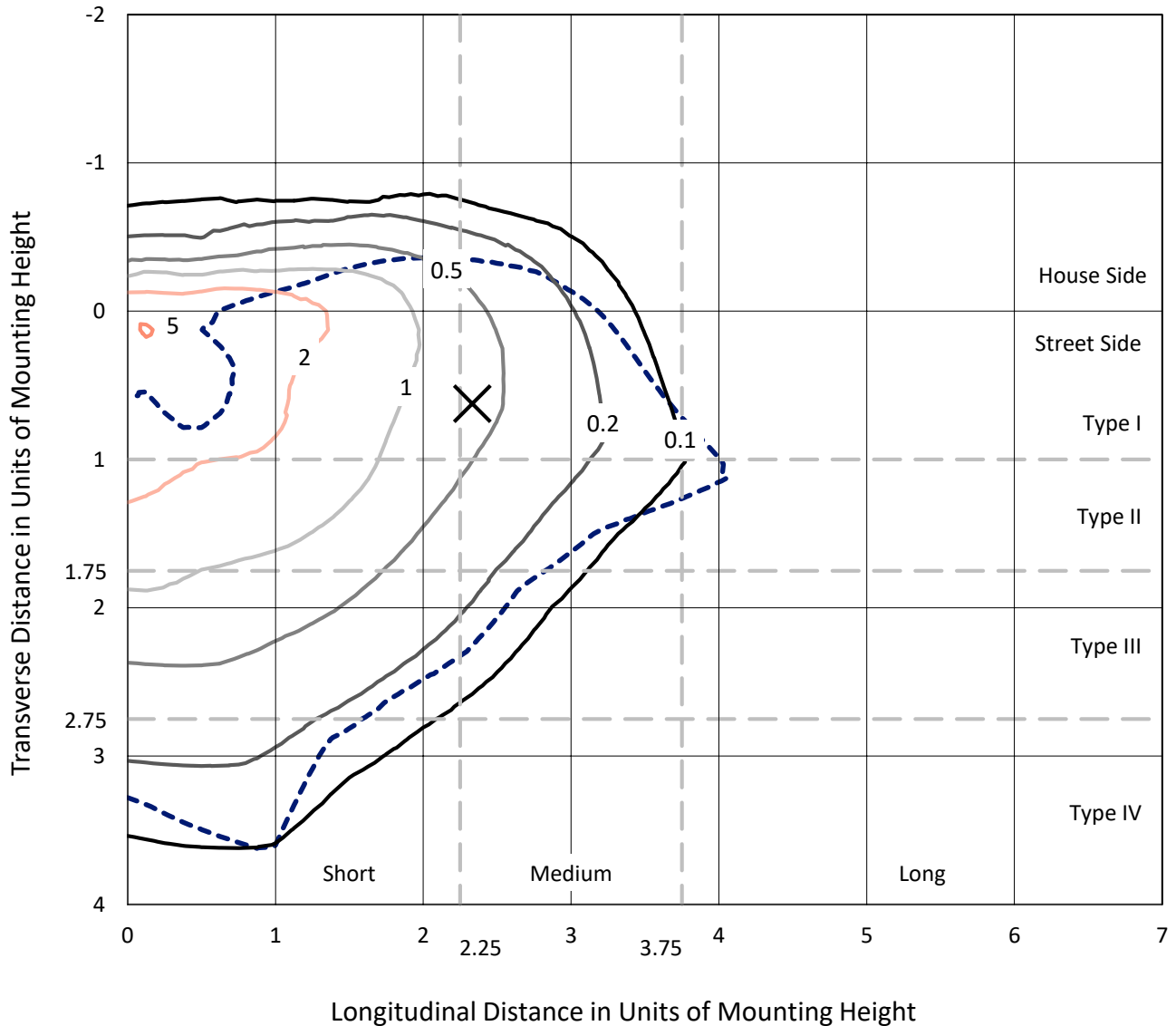
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

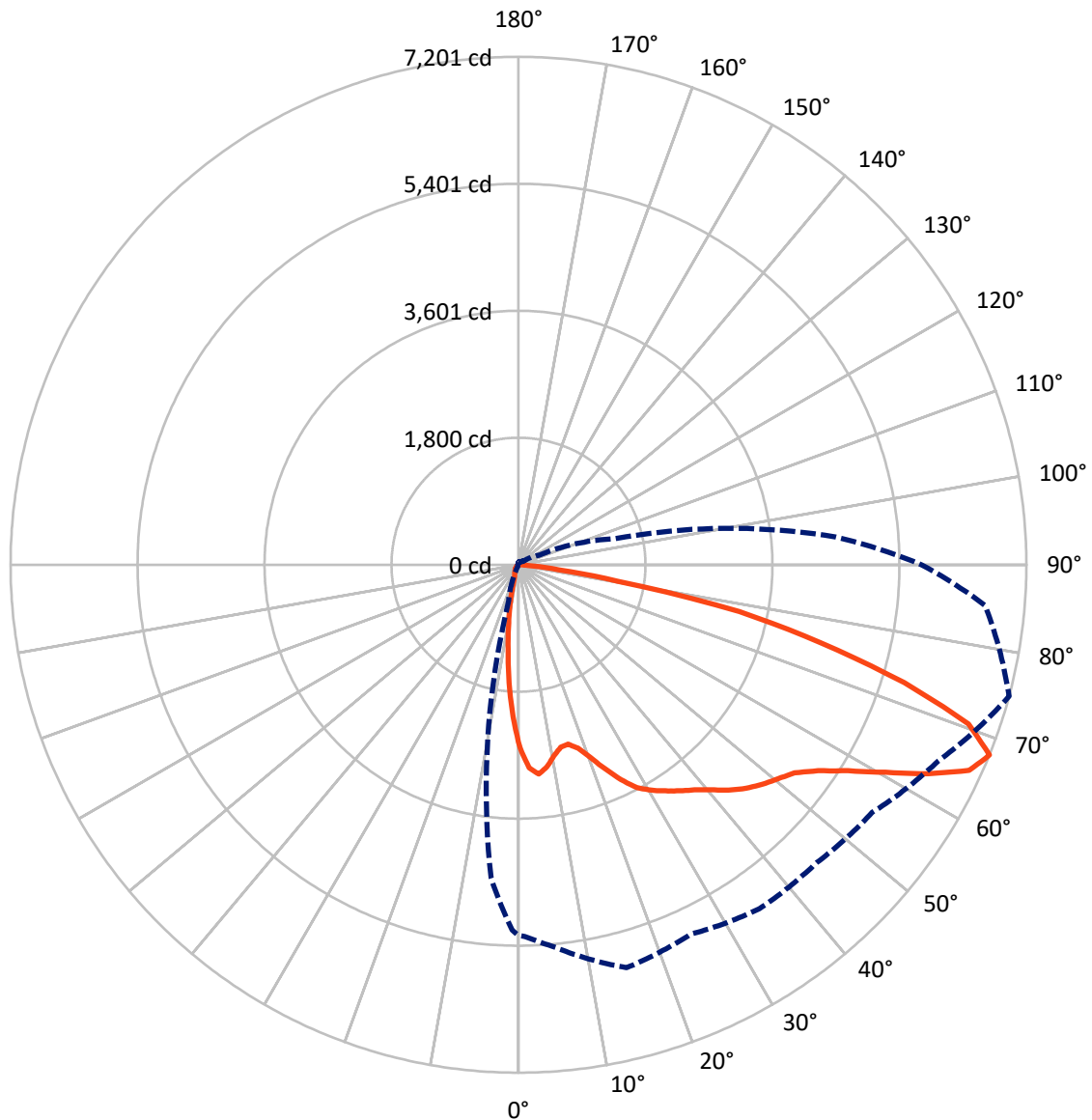
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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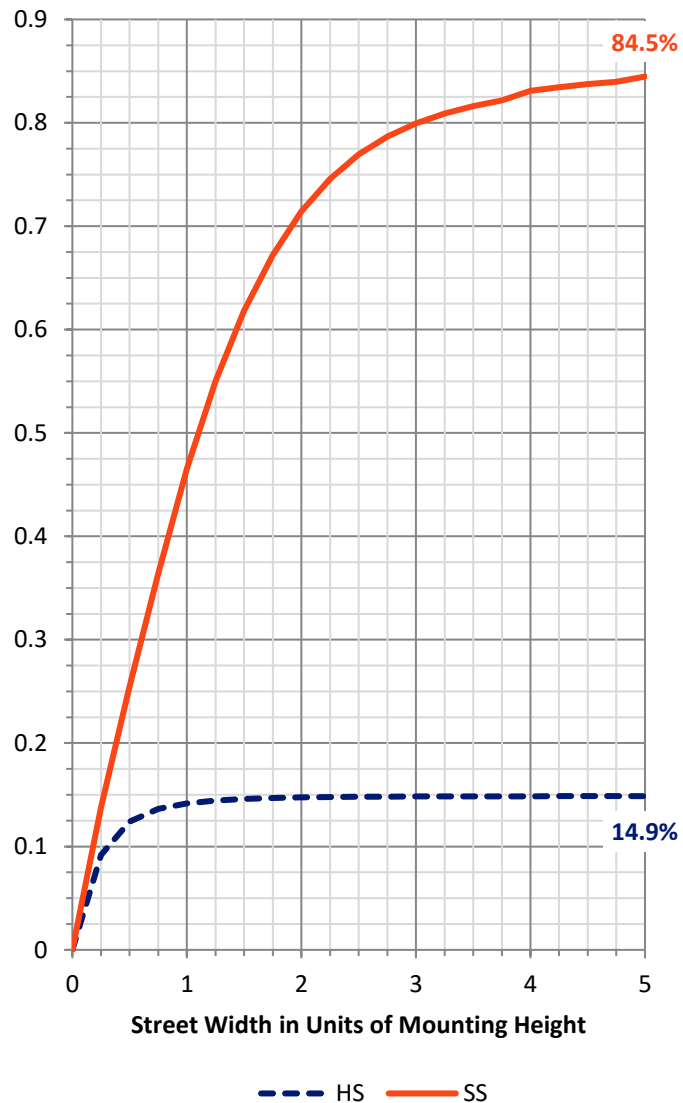
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1163.4	0.0	1163.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6589.6	0.0	6589.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	7753.0	0.0	7753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	2.5
10°-20°	388.5	5.0
20°-30°	549.6	7.1
30°-40°	808.1	10.4
40°-50°	1161.4	15.0
50°-60°	1635.0	21.1
60°-70°	1909.5	24.6
70°-80°	974.2	12.6
80°-90°	129.4	1.7
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°	7753.0	100.0
0°-180°	7753.0	100.0

Coefficient of Utilization

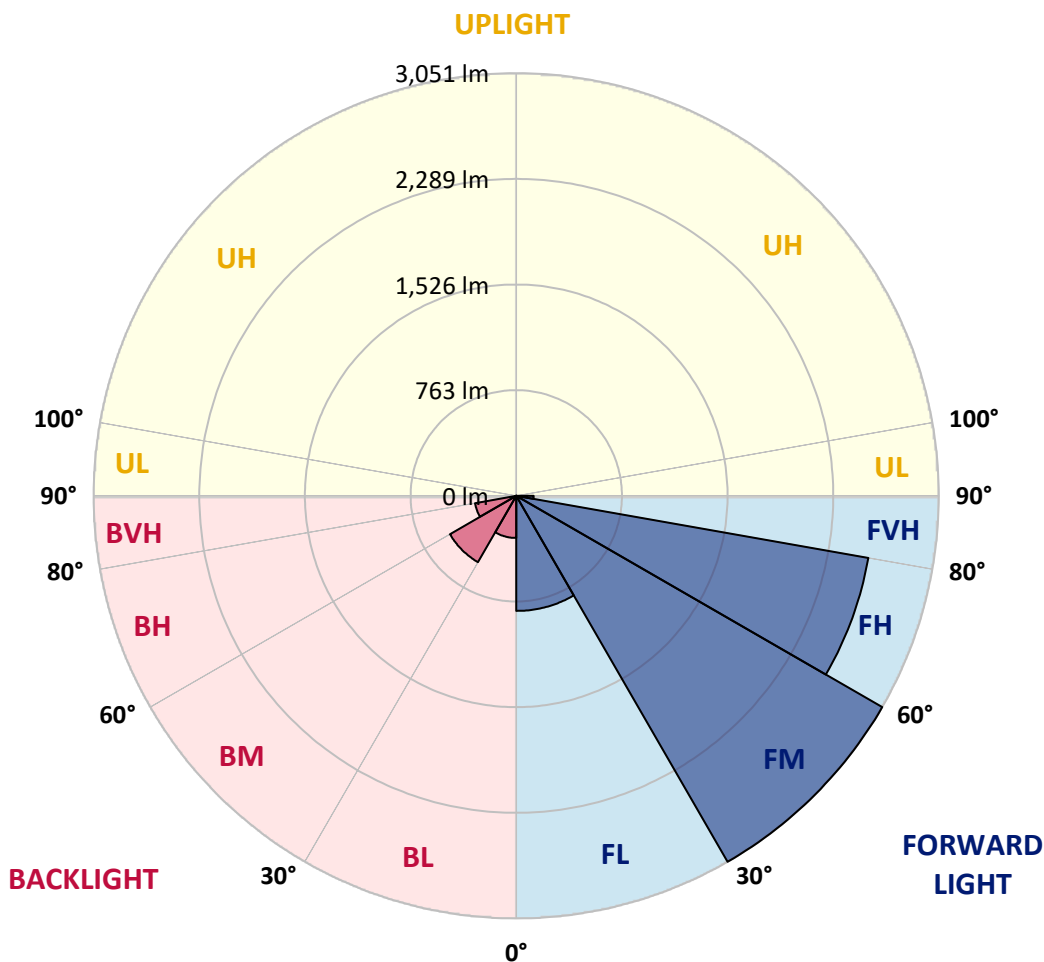


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.1	10.7			
FM (30°-60°)	3051.4	39.4			
FH (60°-80°)	2581.5	33.3			G2/5000
FVH (80°-90°)	125.5	1.6			G2/225
BL (0°-30°)	304.2	3.9	B1/500		
BM (30°-60°)	553.1	7.1	B1/1000		
BH (60°-80°)	302.2	3.9	B1/500		G1/500
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	2819.5	2823.9	2846.7	2899.6	2957.2	2961.7	3000.6	2960.6	2947.0	2882.3	2815.5
5°	2840.8	2857.7	2935.9	3091.3	3226.1	3269.4	3300.3	3221.7	3139.0	2981.1	2812.5
7.5°	2669.3	2697.6	2820.6	3112.2	3353.2	3459.7	3479.9	3356.8	3154.5	2894.4	2641.0
10°	2449.7	2482.0	2630.4	2988.8	3319.7	3502.3	3530.2	3369.0	3078.1	2754.2	2455.6
12.5°	2271.9	2309.8	2461.4	2850.0	3204.8	3406.8	3461.9	3328.2	3012.0	2654.6	2328.9
15°	2190.0	2233.4	2392.8	2760.4	3077.3	3236.4	3281.9	3224.3	2975.2	2638.8	2299.5
17.5°	2237.0	2284.0	2448.6	2768.1	2957.6	3025.6	3062.3	3085.8	2975.2	2734.0	2385.4
20°	2429.9	2480.5	2654.6	2846.3	2858.5	2833.1	2872.4	2955.0	3009.8	2914.6	2591.8
22.5°	2696.5	2756.0	2952.5	2980.4	2810.0	2714.1	2719.3	2848.9	3072.6	3143.8	2878.3
25°	3021.5	3094.2	3294.0	3180.2	2830.2	2643.2	2641.4	2761.5	3133.9	3373.4	3197.4
27.5°	3344.4	3424.4	3600.0	3424.0	2913.5	2630.4	2626.7	2735.1	3193.8	3577.6	3546.0
30°	3615.0	3692.9	3844.2	3600.7	3003.5	2660.5	2642.9	2763.3	3229.4	3710.2	3800.1
32.5°	3835.4	3897.8	4020.1	3722.3	3099.8	2718.9	2680.7	2839.0	3290.0	3822.2	4033.7
35°	4077.8	4143.5	4192.4	3838.0	3207.7	2803.0	2748.3	2959.1	3383.3	3936.0	4289.7
37.5°	4354.3	4419.7	4413.8	3943.7	3344.7	2942.2	2907.3	3149.3	3528.4	4048.8	4575.4
40°	4625.0	4691.9	4644.1	4059.4	3505.6	3171.7	3146.0	3435.1	3722.6	4193.1	4910.4
42.5°	4878.4	4950.8	4848.7	4168.9	3697.3	3461.1	3505.2	3803.1	3965.8	4370.9	5199.1
45°	5082.6	5156.5	5020.2	4275.4	3899.3	3812.3	3944.8	4210.7	4258.1	4521.1	5394.1
47.5°	5231.0	5300.8	5139.2	4381.9	4157.9	4241.6	4472.6	4638.2	4522.2	4651.5	5532.5
50°	5325.8	5380.1	5174.1	4515.2	4497.2	4742.5	5022.4	5103.2	4770.8	4769.0	5700.7
52.5°	5386.0	5410.6	5199.8	4654.4	4851.3	5287.9	5560.8	5586.2	5026.8	4898.3	5927.4
55°	5593.5	5613.3	5382.0	4823.0	5144.0	5765.8	6047.8	6024.3	5316.6	5151.3	6194.7
57.5°	5947.6	5968.5	5758.4	5065.4	5380.9	6061.0	6400.8	6443.0	5656.3	5506.8	6481.2
60°	6125.3	6164.2	6089.3	5372.4	5610.4	6249.8	6641.3	6776.1	6080.9	5975.5	6758.9
62.5°	5964.1	6020.6	6129.4	5712.9	5838.5	6353.8	6716.2	6895.5	6515.7	6521.6	6930.0
65°	5642.4	5687.5	5871.9	5899.4	5970.7	6340.9	6531.1	6728.7	6782.0	7023.3	6920.8
67.5°	5253.8	5270.7	5427.1	5914.1	5779.0	5954.5	5975.1	6121.3	6571.5	7201.0	6642.8
70°	4694.4	4703.6	4840.2	5422.4	4966.2	5004.8	4974.3	5004.0	5649.7	6768.0	5940.9
72.5°	3778.1	3801.2	3995.5	4503.1	3618.0	3506.7	3746.1	3732.9	4351.0	5718.0	4412.4
75°	2781.7	2821.7	3115.2	3627.1	2539.3	2296.9	2471.7	2518.4	3093.1	4423.0	2759.3
77.5°	1947.6	1977.4	2261.6	2666.4	1837.8	1642.4	1579.3	1634.7	2041.6	3199.6	1390.1
80°	1122.0	1133.0	1314.5	1539.6	1238.4	1416.9	1283.6	1321.8	1223.4	1423.5	597.9
82.5°	734.2	736.0	806.9	916.3	771.3	896.1	663.3	848.0	752.5	571.8	194.7
85°	396.7	398.9	467.9	650.4	436.7	246.8	145.1	297.9	465.3	131.1	53.3
87.5°	43.7	40.0	141.0	236.5	121.2	22.4	7.7	33.4	74.6	8.4	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	2781.3	2750.8	2674.8	2594.4	2529.7	2469.1	2408.2	2333.6	2276.0	2264.2	2245.1
5°	2721.8	2625.2	2465.8	2305.7	2176.8	2014.1	1910.9	1830.5	1751.9	1747.1	1731.3
7.5°	2514.0	2386.9	2162.5	1941.0	1759.6	1604.6	1448.1	1343.5	1261.2	1232.2	1214.9
10°	2314.2	2171.3	1891.1	1638.4	1476.4	1339.4	1229.2	1119.8	1020.6	952.3	921.5
12.5°	2174.6	2016.7	1707.8	1490.0	1374.0	1243.9	1109.5	972.9	858.7	776.4	726.1
15°	2120.6	1952.0	1646.5	1431.2	1288.0	1123.5	951.6	795.5	668.8	594.2	549.1
17.5°	2184.9	1988.8	1641.7	1359.6	1159.5	954.9	765.0	580.7	461.3	404.7	375.7
20°	2348.0	2105.6	1639.9	1271.9	1006.7	755.1	518.2	382.0	309.6	278.0	264.4
22.5°	2578.6	2254.7	1654.5	1185.2	847.7	539.5	357.7	280.6	243.5	226.6	218.9
25°	2875.3	2464.0	1696.0	1106.6	698.2	402.5	278.8	235.1	209.0	195.8	190.2
27.5°	3191.6	2704.9	1760.7	1038.3	576.6	321.0	238.7	201.3	182.5	173.4	168.2
30°	3452.3	2984.1	1826.1	962.2	488.5	279.9	218.5	183.6	162.0	156.1	151.3
32.5°	3680.4	3195.2	1872.3	893.6	430.8	248.6	197.6	164.2	149.5	138.1	133.0
35°	3916.6	3371.2	1870.9	845.5	391.1	225.1	180.0	146.9	129.3	116.1	112.0
37.5°	4172.2	3569.9	1838.9	804.3	373.9	206.4	170.0	137.7	120.1	106.9	101.7
40°	4471.5	3778.5	1806.2	765.8	369.1	191.3	163.1	130.4	111.6	98.8	93.7
42.5°	4763.1	3966.5	1777.6	737.1	348.5	191.0	156.8	124.9	105.0	92.6	86.7
45°	4996.3	4141.7	1772.1	719.8	326.9	197.6	153.5	121.2	99.9	87.4	81.9
47.5°	5190.2	4331.9	1807.3	707.7	306.3	180.3	161.6	118.6	95.1	83.0	76.8
50°	5420.9	4565.5	1890.3	687.9	284.6	162.3	185.1	119.4	91.1	78.6	72.0
52.5°	5742.6	4888.7	2012.3	654.5	254.9	145.8	182.2	120.1	86.7	73.8	67.2
55°	6103.3	5292.3	2143.4	599.0	213.4	124.1	156.1	115.0	78.2	68.7	62.4
57.5°	6482.3	5658.5	2221.2	532.9	169.7	107.2	124.9	104.7	69.0	61.7	57.7
60°	6541.8	5797.7	2185.6	451.7	134.8	93.3	92.6	106.5	61.7	54.4	51.4
62.5°	6393.8	5622.9	2013.4	379.4	112.8	81.9	76.0	92.9	55.8	48.5	45.5
65°	6109.2	5150.2	1734.2	341.9	104.7	70.1	63.2	65.4	48.8	42.2	39.7
67.5°	5713.2	4519.2	1423.9	320.6	103.6	60.2	54.0	49.6	42.2	36.7	34.5
70°	4903.8	3764.9	1136.0	308.9	100.6	50.7	45.5	40.4	35.3	31.2	29.4
72.5°	3609.2	2667.8	883.6	296.0	101.4	40.4	39.7	33.4	28.3	24.2	23.5
75°	2085.4	1524.2	579.6	239.8	96.6	31.2	33.1	23.5	19.8	16.9	16.9
77.5°	1111.4	929.6	220.7	99.9	35.3	19.8	18.7	14.0	12.5	10.3	9.9
80°	484.4	409.1	66.5	27.9	19.5	10.7	7.0	6.2	5.5	4.4	4.0
82.5°	171.5	148.0	21.7	13.6	8.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.9	27.9	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	2206.2	2198.1	2150.4	2152.2	2160.6	2172.8	2144.1	2157.3	2193.0	2227.1	2240.0
5°	1706.0	1707.8	1678.8	1696.8	1712.9	1724.0	1677.7	1678.4	1706.7	1745.3	1765.5
7.5°	1202.1	1199.1	1200.6	1243.6	1274.1	1252.0	1269.3	1209.4	1213.1	1240.6	1220.1
10°	893.6	853.2	830.4	862.7	896.1	884.0	854.3	834.8	848.4	878.9	876.7
12.5°	702.2	644.2	610.0	586.9	614.4	591.7	590.9	574.0	555.7	559.0	607.8
15°	528.1	485.9	445.5	408.4	407.7	400.0	360.7	316.6	312.9	315.1	340.5
17.5°	363.2	348.9	332.4	300.4	292.0	259.7	221.5	203.8	195.0	199.1	207.5
20°	255.3	249.7	251.6	234.3	222.2	191.3	168.9	162.0	160.5	164.5	168.6
22.5°	211.5	201.6	200.5	192.8	180.7	158.3	146.2	142.1	140.3	144.0	146.9
25°	185.1	175.2	171.1	166.4	153.5	138.1	130.7	127.1	125.2	127.4	129.3
27.5°	163.1	153.9	150.2	146.9	134.4	123.4	117.5	114.2	112.8	113.5	115.3
30°	146.5	138.5	133.7	129.6	119.0	111.3	106.1	102.8	101.4	101.4	103.2
32.5°	129.3	124.9	120.5	115.3	105.4	100.3	95.1	91.4	90.0	90.3	91.8
35°	107.6	106.1	107.2	102.5	94.0	89.6	84.5	80.4	79.3	79.7	81.2
37.5°	95.5	88.9	92.9	90.3	85.6	79.7	73.1	69.4	67.6	68.7	69.4
40°	87.8	79.7	76.8	79.3	78.6	69.0	63.2	59.5	58.0	58.4	59.1
42.5°	81.2	71.6	65.0	64.6	69.0	60.2	54.0	50.7	48.8	48.8	49.6
45°	74.9	64.6	56.6	50.3	58.0	51.1	45.2	42.2	40.0	40.0	40.4
47.5°	70.1	58.8	49.2	41.1	43.7	41.9	37.1	34.2	32.0	32.0	32.3
50°	65.7	52.9	42.6	34.5	32.7	34.5	30.1	26.8	25.3	25.0	25.7
52.5°	61.0	47.0	36.4	29.4	25.7	26.1	23.5	21.3	19.5	19.5	20.2
55°	56.2	42.2	31.6	25.0	21.3	19.5	18.7	17.3	15.8	15.8	16.5
57.5°	51.4	37.1	26.8	20.6	16.9	15.4	15.4	14.3	13.2	13.2	14.0
60°	47.0	32.0	22.0	16.9	13.2	12.9	13.2	12.1	11.4	11.4	12.1
62.5°	41.9	27.2	18.0	14.0	10.7	10.3	11.4	10.7	9.9	9.9	10.7
65°	35.6	23.1	14.3	10.7	8.1	8.1	9.5	8.8	8.1	8.1	8.8
67.5°	30.1	19.5	11.0	7.7	5.9	6.2	8.1	7.3	7.0	7.0	7.7
70°	25.0	15.1	7.7	4.8	3.3	4.8	6.2	6.2	6.2	6.2	7.0
72.5°	18.7	10.3	4.4	1.8	1.5	3.3	5.1	5.9	5.5	5.5	6.6
75°	12.1	5.9	1.5	0.0	0.0	1.8	4.0	4.8	4.8	4.4	5.5
77.5°	7.0	1.8	0.0	0.0	0.0	0.0	2.6	2.2	1.8	1.5	2.6
80°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	2291.8	2335.1	2396.1	2460.7	2560.2	2639.2	2716.7	2783.2	2808.9	2819.5
5°	1813.9	1877.5	1966.7	2081.3	2260.9	2422.5	2586.3	2751.2	2822.8	2840.8
7.5°	1301.6	1382.8	1496.3	1639.9	1850.3	2059.6	2288.5	2530.5	2641.4	2669.3
10°	963.3	1062.5	1192.5	1343.8	1544.7	1760.0	2009.3	2285.9	2412.6	2449.7
12.5°	683.5	817.5	991.6	1175.6	1349.7	1541.8	1794.1	2098.9	2231.9	2271.9
15°	401.4	531.1	737.1	983.5	1206.5	1401.1	1657.5	2003.1	2149.6	2190.0
17.5°	230.3	294.9	450.6	725.4	1028.0	1297.6	1614.5	2027.0	2199.6	2237.0
20°	175.9	196.5	259.7	467.2	819.4	1195.8	1614.5	2162.1	2374.8	2429.9
22.5°	153.9	168.9	194.7	278.8	603.1	1086.7	1633.2	2357.5	2635.5	2696.5
25°	136.6	150.2	172.2	209.7	411.3	957.1	1677.7	2597.3	2942.6	3021.5
27.5°	122.3	135.2	155.0	183.6	281.3	800.6	1737.5	2878.7	3281.2	3344.4
30°	109.4	121.6	139.6	159.8	217.1	623.3	1788.6	3143.8	3547.1	3615.0
32.5°	97.3	108.3	124.5	139.6	177.8	460.9	1794.1	3353.9	3767.8	3835.4
35°	85.9	95.9	110.5	122.3	147.3	364.0	1708.5	3536.1	3988.5	4077.8
37.5°	74.9	84.5	97.3	106.1	129.6	296.8	1577.8	3739.2	4271.7	4354.3
40°	64.6	73.1	86.3	92.2	122.7	228.1	1435.7	3952.2	4549.4	4625.0
42.5°	55.1	63.2	76.0	87.4	107.6	170.4	1282.1	4152.0	4799.1	4878.4
45°	45.9	54.4	67.2	92.6	89.2	127.4	1118.0	4284.6	4996.3	5082.6
47.5°	37.1	46.6	64.3	88.1	71.3	93.7	988.0	4410.2	5145.8	5231.0
50°	29.7	39.3	72.4	78.6	58.4	71.6	933.6	4522.6	5243.9	5325.8
52.5°	24.2	33.1	68.3	60.2	48.8	59.1	963.0	4704.7	5334.6	5386.0
55°	20.2	26.1	41.1	41.9	41.5	50.3	999.3	4966.2	5569.3	5593.5
57.5°	17.6	20.9	28.6	32.3	34.9	44.8	1000.1	5341.6	5932.5	5947.6
60°	15.1	18.4	23.9	26.1	30.1	40.0	963.7	5472.7	6075.4	6125.3
62.5°	13.2	16.2	19.8	21.7	25.3	36.0	878.5	5282.8	5879.2	5964.1
65°	11.8	14.7	16.5	18.4	22.4	32.3	738.2	4903.0	5553.8	5642.4
67.5°	10.3	12.9	14.7	16.5	20.2	28.6	543.6	4462.0	5180.3	5253.8
70°	9.2	11.4	13.2	14.7	17.6	24.2	329.8	3786.2	4663.9	4694.4
72.5°	8.8	10.3	12.1	13.2	15.4	21.3	167.1	2782.4	3728.5	3778.1
75°	7.7	9.2	11.0	11.8	13.6	18.4	67.9	1827.5	2702.0	2781.7
77.5°	6.2	8.4	9.9	10.7	11.8	15.1	34.5	1167.9	1896.2	1947.6
80°	2.2	6.2	8.4	8.8	9.9	11.0	22.8	639.4	1100.0	1122.0
82.5°	0.0	4.0	6.6	6.2	7.0	8.4	14.7	304.1	726.1	734.2
85°	0.0	1.8	5.1	4.0	2.9	5.9	5.1	66.5	380.9	396.7
87.5°	0.0	0.0	0.4	1.8	1.5	2.2	0.7	0.4	34.5	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)