

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: P651791

Luminaire Tested: **GALN-SA3A-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 8245.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

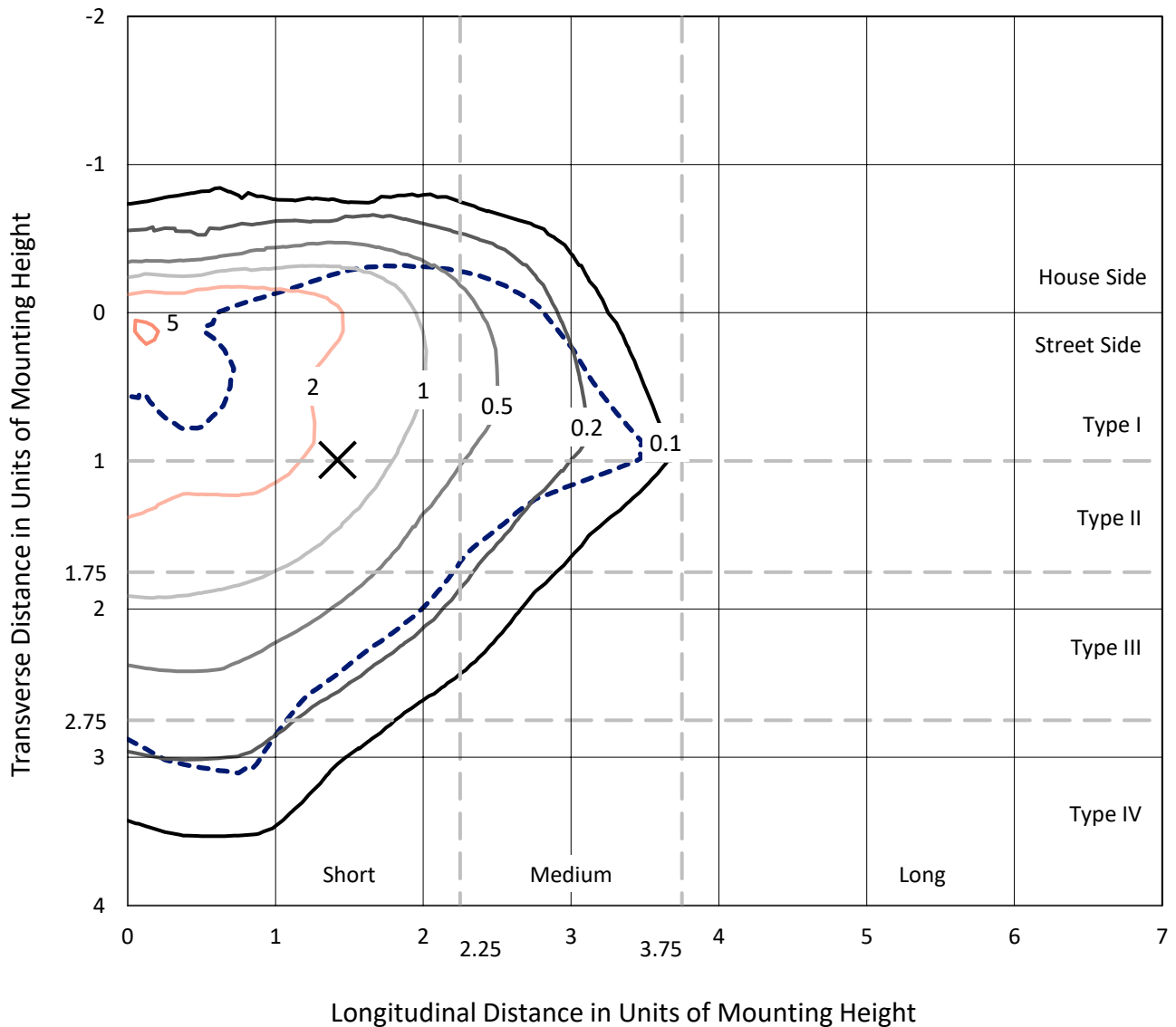
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

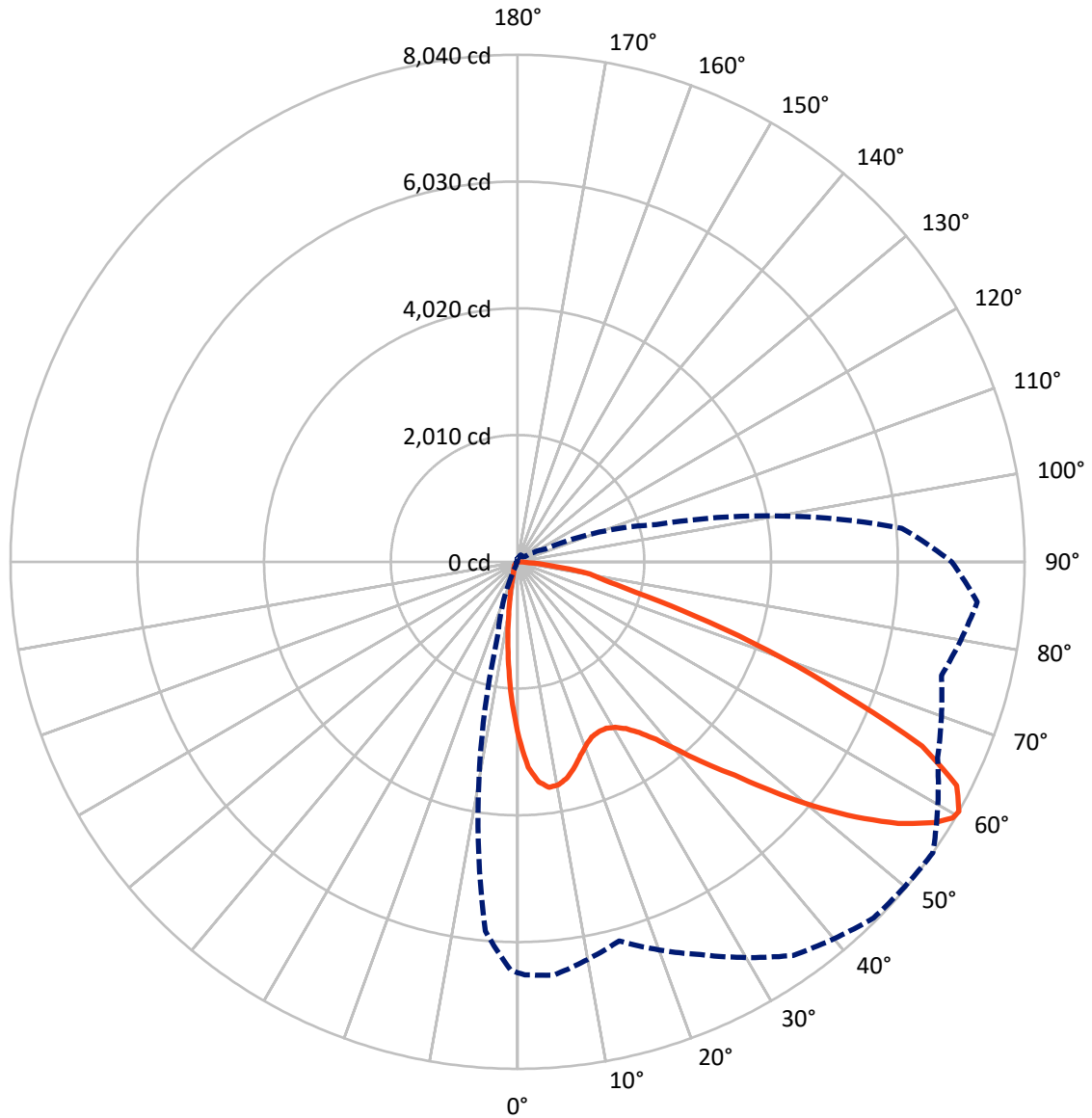
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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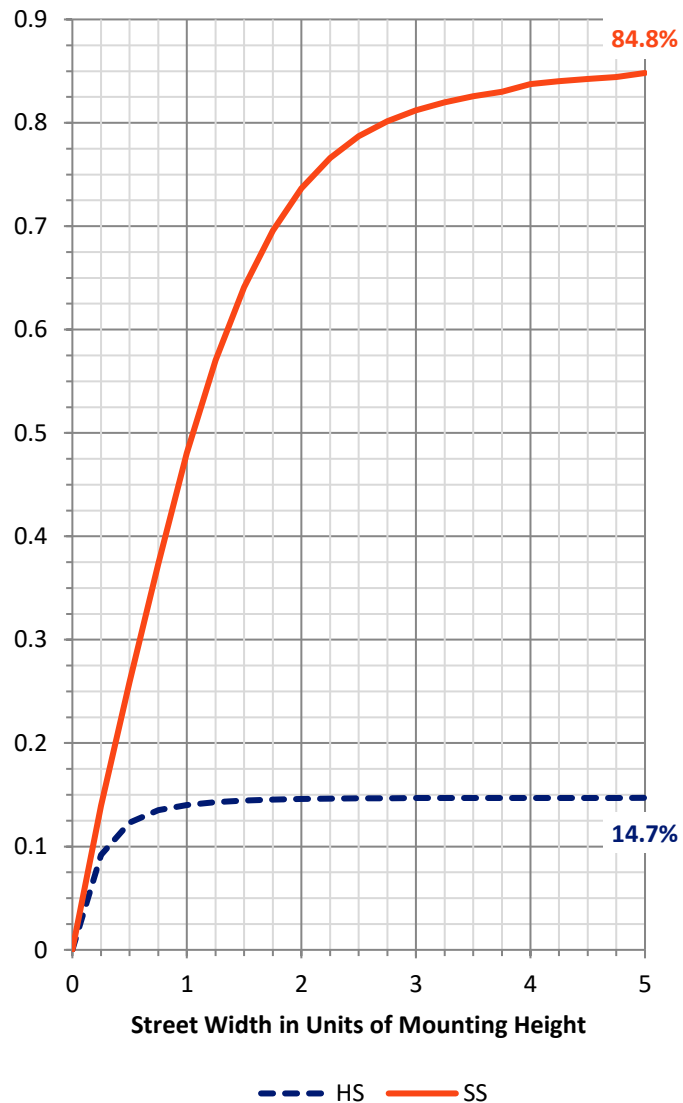
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1223.7	0.0	1223.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	7021.5	0.0	7021.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	8245.2	0.0	8245.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	2.5
10°-20°	407.1	4.9
20°-30°	602.6	7.3
30°-40°	898.2	10.9
40°-50°	1315.5	16.0
50°-60°	1899.1	23.0
60°-70°	1997.8	24.2
70°-80°	821.8	10.0
80°-90°	96.3	1.2
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°	8245.2	100.0
0°-180°	8245.2	100.0

Coefficient of Utilization



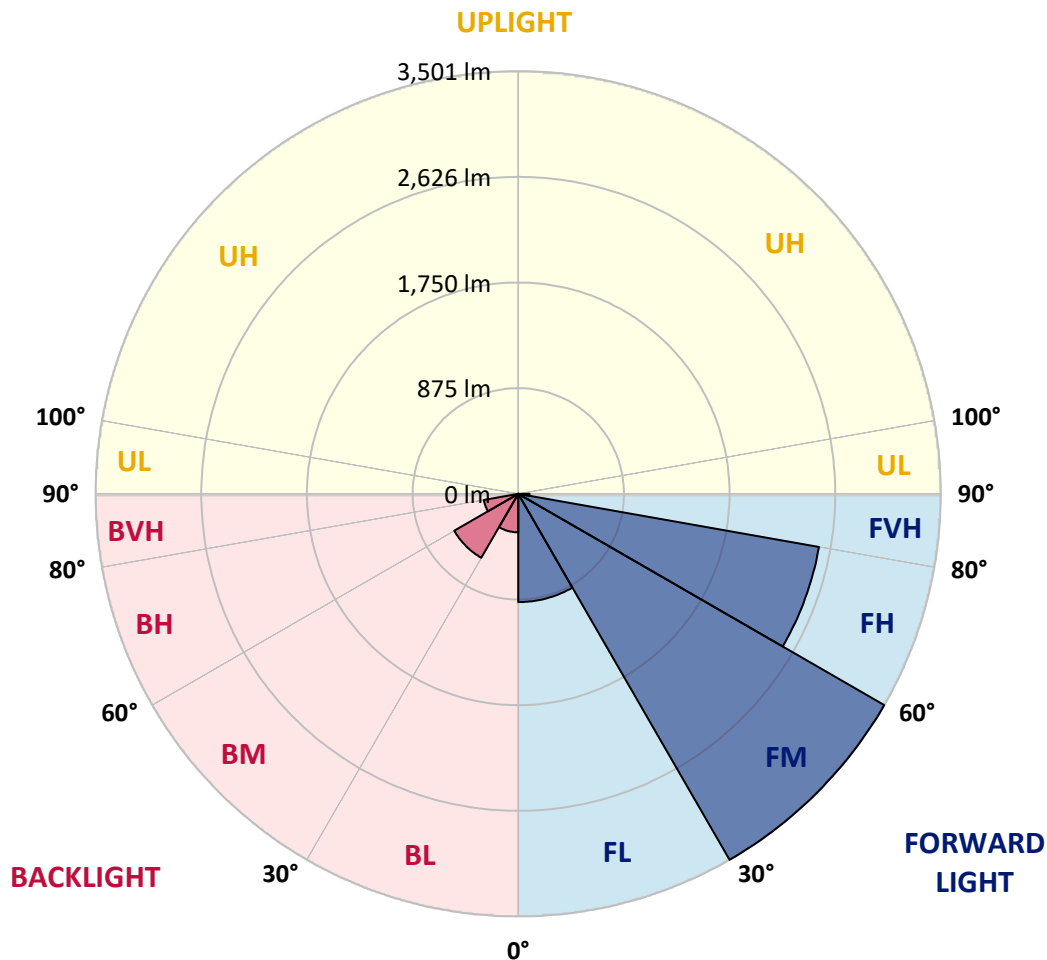
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.2	10.9			
FM (30°-60°)	3500.9	42.5			
FH (60°-80°)	2530.0	30.7			G2/5000
FVH (80°-90°)	93.4	1.1			G1/100
BL (0°-30°)	319.3	3.9	B1/500		
BM (30°-60°)	611.9	7.4	B1/1000		
BH (60°-80°)	289.6	3.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8
2.5°	3050.1	3045.0	3090.1	3163.7	3237.9	3276.6	3269.1	3265.9	3204.3	3159.2	3064.7
5°	3043.7	3069.7	3150.4	3349.6	3500.7	3573.7	3595.3	3504.5	3384.5	3210.7	2996.1
7.5°	2861.6	2894.0	3025.3	3336.9	3605.4	3764.1	3758.3	3613.0	3365.5	3096.4	2790.5
10°	2635.7	2673.7	2827.9	3206.2	3554.7	3764.1	3775.5	3591.4	3283.6	2938.4	2616.6
12.5°	2476.4	2521.4	2692.1	3084.4	3423.9	3630.2	3643.5	3510.2	3222.0	2877.5	2522.1
15°	2422.4	2465.0	2638.2	3022.8	3284.9	3396.0	3392.8	3378.8	3198.0	2892.0	2527.1
17.5°	2515.1	2550.0	2745.4	3050.7	3154.8	3143.4	3159.9	3227.2	3203.0	3014.6	2687.1
20°	2754.4	2789.8	2999.9	3136.4	3055.2	2982.9	2990.4	3102.8	3250.0	3244.9	2937.1
22.5°	3083.7	3144.0	3334.4	3302.7	3041.8	2883.2	2867.3	3013.3	3329.9	3510.2	3274.8
25°	3500.7	3561.6	3710.2	3567.9	3107.2	2859.7	2845.1	2986.0	3427.1	3769.1	3654.9
27.5°	3851.0	3897.4	4045.2	3826.3	3203.7	2869.8	2845.8	2989.8	3505.8	3989.4	3975.4
30°	4131.5	4165.8	4252.8	3946.8	3286.8	2914.3	2886.3	3045.7	3540.7	4096.6	4234.9
32.5°	4357.5	4415.2	4442.5	4075.7	3406.1	2998.1	2950.5	3152.9	3625.7	4229.2	4507.3
35°	4615.7	4682.4	4647.5	4198.8	3563.5	3128.8	3070.4	3326.8	3754.6	4351.8	4823.3
37.5°	4943.2	5020.0	4883.6	4328.3	3729.8	3325.5	3298.2	3571.1	3950.0	4526.9	5162.1
40°	5282.2	5326.6	5112.7	4485.6	3934.1	3611.8	3637.7	3934.1	4205.8	4736.9	5522.7
42.5°	5546.7	5588.7	5348.1	4617.7	4142.9	3951.3	4059.8	4372.0	4499.0	4952.1	5791.7
45°	5749.2	5784.7	5511.2	4761.7	4424.8	4443.1	4648.1	4823.3	4792.8	5083.5	5999.3
47.5°	5906.6	5937.0	5636.9	4916.6	4846.8	5044.7	5358.3	5432.5	5097.5	5225.6	6187.2
50°	5971.4	5980.3	5676.2	5114.0	5325.9	5811.4	6138.3	6093.2	5446.5	5383.7	6387.1
52.5°	6055.8	6053.9	5788.6	5301.8	5776.5	6496.8	6823.0	6720.9	5841.2	5620.4	6611.7
55°	6277.2	6279.7	6029.1	5568.3	6160.5	7050.3	7399.3	7325.0	6257.5	6020.2	6873.8
57.5°	6546.3	6555.8	6371.2	5879.9	6527.3	7451.3	7829.5	7801.0	6820.5	6465.1	7121.3
59°	6581.2	6600.3	6533.0	6099.5	6745.0	7574.5	7976.8	8004.7	7121.9	6758.3	7255.2
60°	6517.8	6549.5	6580.0	6223.9	6872.6	7618.9	7985.7	8040.3	7348.5	6957.6	7316.1
62.5°	6241.1	6291.2	6444.2	6606.6	7031.9	7480.5	7702.0	7816.3	7629.0	7481.2	7321.8
65°	5878.7	5904.7	6125.6	6674.5	6722.8	6834.5	6903.0	7049.6	7292.1	7683.0	7059.8
67.5°	5284.7	5361.5	5631.8	6280.4	5810.8	5678.8	5661.6	5515.7	6145.3	7201.9	6413.7
70°	4365.7	4399.9	4733.1	5148.9	4385.4	4182.3	4263.5	4209.0	4763.6	6199.9	5162.1
72.5°	3301.4	3378.8	3704.4	4104.2	2984.1	2720.7	2944.8	2924.4	3578.1	4982.6	3546.4
75°	2348.8	2399.0	2814.0	3211.9	2089.9	1770.6	1851.2	1926.7	2497.9	3934.1	2095.6
77.5°	1613.9	1657.0	1968.7	2124.1	1524.4	1460.3	1335.9	1408.9	1636.8	2334.2	1140.5
80°	973.5	971.6	1176.6	1214.7	1061.8	1233.1	1034.4	1161.4	989.4	998.9	441.7
82.5°	632.1	625.8	719.6	784.4	590.9	621.3	417.0	601.0	644.8	278.6	139.6
85°	283.1	295.1	345.9	456.3	258.9	137.8	85.0	184.7	274.8	140.3	0.0
87.5°	29.2	22.9	60.9	111.1	35.6	3.8	12.7	6.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8
2.5°	3020.9	2984.1	2874.3	2771.5	2683.3	2575.4	2505.6	2395.8	2329.1	2308.8	2312.0
5°	2899.7	2793.7	2584.9	2418.0	2232.0	2126.0	1964.8	1810.0	1726.2	1695.1	1681.2
7.5°	2645.8	2532.3	2280.3	2018.1	1818.9	1633.0	1513.0	1376.5	1283.3	1206.4	1193.1
10°	2457.3	2308.2	1995.9	1714.1	1556.8	1417.2	1297.2	1160.7	1051.0	963.4	939.2
12.5°	2344.4	2177.4	1829.0	1592.9	1443.8	1300.4	1144.3	986.2	873.9	779.4	735.5
15°	2324.0	2130.5	1782.1	1506.0	1322.0	1148.7	941.2	770.4	655.0	565.5	538.2
17.5°	2446.6	2214.9	1775.1	1415.2	1162.7	917.0	701.3	559.8	429.7	379.5	359.9
20°	2664.9	2364.1	1774.4	1309.9	998.9	706.4	492.5	364.9	312.3	288.1	276.7
22.5°	2962.5	2567.2	1808.1	1219.1	828.8	521.0	351.6	290.6	260.2	240.5	236.1
25°	3326.2	2868.0	1890.6	1157.6	698.7	408.7	290.1	248.8	223.4	214.5	210.7
27.5°	3649.2	3156.1	1981.3	1094.1	605.4	361.7	269.1	227.8	207.6	200.6	194.9
30°	3927.8	3417.6	2025.1	1010.4	530.6	331.3	272.9	243.7	217.1	196.1	186.6
32.5°	4160.1	3618.1	2053.7	934.2	467.1	271.0	215.8	188.5	176.4	168.8	162.5
35°	4450.7	3835.1	2036.6	891.0	434.7	246.9	196.7	162.5	142.1	126.9	120.6
37.5°	4755.4	4052.2	2006.7	855.5	420.2	229.1	187.2	154.2	132.0	116.1	107.9
40°	5070.8	4253.4	1971.8	822.5	406.8	217.7	181.5	147.3	125.1	107.9	99.0
42.5°	5359.5	4449.5	1957.8	800.9	385.3	219.6	177.0	144.1	118.1	100.2	92.7
45°	5593.1	4635.4	1976.9	789.5	361.7	216.4	178.4	140.3	112.4	95.2	87.5
47.5°	5842.5	4898.2	2038.5	778.1	338.9	201.2	187.9	139.6	109.8	92.0	83.8
50°	6132.6	5234.6	2179.4	750.2	311.0	184.7	199.9	139.0	106.6	88.2	80.0
52.5°	6519.0	5616.6	2324.7	701.3	270.4	168.8	191.0	137.1	100.2	83.8	75.5
55°	6866.2	6019.0	2447.8	643.5	218.9	146.0	172.0	128.8	89.5	76.2	68.5
57.5°	7009.7	6246.1	2444.0	563.6	175.2	128.2	141.5	118.1	78.0	67.3	60.9
59°	6956.9	6217.6	2362.1	504.5	160.0	118.7	117.4	116.8	73.0	60.9	55.8
60°	6882.7	6113.5	2273.9	475.3	150.4	112.4	107.9	115.5	68.5	57.1	52.1
62.5°	6598.4	5682.0	1981.3	425.9	137.8	95.2	86.3	97.7	60.9	49.5	45.1
65°	6186.5	5018.8	1677.4	411.9	133.9	78.7	71.7	69.8	52.1	41.9	38.1
67.5°	5383.1	4247.0	1358.8	402.3	135.1	66.0	62.8	52.6	43.1	34.9	32.4
70°	4309.9	3311.5	1112.6	391.6	136.4	53.9	52.6	41.9	34.9	29.2	26.7
72.5°	2618.5	1963.0	875.8	340.2	132.6	43.1	46.9	31.7	25.4	20.9	19.7
75°	1619.0	1343.5	543.3	264.7	87.5	31.7	33.0	19.7	17.2	13.3	13.3
77.5°	938.0	848.5	194.2	95.2	38.7	19.0	14.6	10.2	9.5	5.7	5.7
80°	389.0	311.6	67.3	32.4	20.9	8.9	3.2	0.7	0.0	0.0	0.0
82.5°	113.6	100.9	18.4	14.6	6.3	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8
2.5°	2258.1	2237.1	2227.6	2259.9	2230.2	2268.2	2239.0	2251.7	2289.1	2305.7	2348.2
5°	1690.1	1668.5	1658.3	1707.1	1704.6	1728.8	1726.2	1748.4	1767.4	1725.0	1768.7
7.5°	1177.2	1162.7	1186.8	1224.8	1265.5	1252.2	1252.2	1222.3	1232.5	1226.1	1224.2
10°	895.5	845.4	832.7	831.4	846.6	849.7	832.7	791.4	806.6	811.1	837.7
12.5°	704.4	665.7	606.7	580.0	573.1	578.8	522.3	486.1	503.3	493.1	519.1
15°	505.2	473.5	438.5	408.7	400.5	389.0	327.5	284.3	279.2	281.1	285.6
17.5°	360.5	338.9	338.9	307.1	290.1	255.7	224.6	205.6	203.7	205.6	208.8
20°	265.9	254.5	253.2	245.0	225.9	203.1	181.5	177.7	176.4	179.6	180.9
22.5°	229.1	217.1	206.9	206.3	188.5	169.5	159.3	154.2	154.8	156.1	159.3
25°	205.0	192.3	181.5	175.2	162.5	149.1	139.6	137.1	137.1	139.0	139.6
27.5°	187.9	172.0	162.5	153.6	142.1	130.8	122.4	120.6	119.3	120.6	123.8
30°	175.8	160.0	147.8	134.6	125.6	114.9	107.9	105.4	104.7	105.4	107.9
32.5°	150.4	140.9	131.4	119.3	108.5	101.5	93.9	89.5	89.5	90.7	93.3
35°	113.6	108.5	107.9	104.7	95.8	88.2	79.3	74.8	74.8	77.5	78.7
37.5°	100.2	90.7	89.5	88.2	84.4	74.3	66.0	62.2	61.6	63.5	66.0
40°	91.4	80.6	74.8	73.6	74.3	62.8	53.9	50.1	50.1	50.8	53.3
42.5°	84.4	71.7	61.6	60.3	62.8	52.6	43.8	39.9	39.9	39.9	43.1
45°	78.7	64.1	52.1	45.7	49.5	43.1	35.6	31.7	30.4	31.7	33.0
47.5°	74.8	58.4	45.7	36.8	36.8	34.2	28.6	24.1	22.9	23.5	25.4
50°	71.7	53.3	38.7	29.9	26.7	27.2	21.6	18.4	17.2	17.2	19.0
52.5°	66.6	48.3	33.6	25.4	20.3	18.4	15.9	13.3	12.7	13.3	14.6
55°	60.3	43.8	29.2	20.9	15.9	12.7	11.4	9.5	8.9	9.5	11.4
57.5°	53.3	36.8	23.5	16.5	10.8	8.2	7.7	6.3	5.0	5.7	7.0
59°	48.9	33.0	20.3	13.3	8.2	5.7	5.7	4.5	3.2	3.8	5.7
60°	46.9	30.4	17.2	11.4	7.0	4.5	4.5	3.2	1.9	2.5	4.5
62.5°	39.9	25.4	13.3	7.0	3.2	0.7	1.9	0.7	0.0	0.7	1.9
65°	33.6	20.3	8.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	27.9	15.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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°	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8	2791.8
2.5°	2350.7	2441.5	2497.3	2602.6	2710.5	2793.7	2897.7	2991.1	3029.8	3050.1
5°	1813.2	1939.4	2046.7	2207.3	2356.4	2538.0	2722.0	2939.0	3022.1	3043.7
7.5°	1272.4	1401.3	1513.6	1699.6	1912.2	2155.2	2430.7	2706.1	2827.4	2861.6
10°	919.0	1056.7	1193.8	1379.7	1578.4	1841.7	2128.6	2469.4	2609.0	2635.7
12.5°	580.0	728.0	950.7	1180.4	1390.5	1602.4	1902.7	2273.3	2427.5	2476.4
15°	336.4	446.8	614.9	914.5	1181.7	1462.2	1789.7	2199.6	2372.3	2422.4
17.5°	225.3	263.4	378.9	608.0	960.8	1332.7	1761.1	2259.9	2451.0	2515.1
20°	189.7	206.9	247.5	370.6	740.0	1217.3	1768.7	2423.7	2674.4	2754.4
22.5°	166.9	182.7	208.8	266.5	516.6	1073.8	1805.0	2657.9	2981.5	3083.7
25°	147.3	163.1	185.9	220.8	347.2	908.2	1884.3	3000.6	3388.4	3500.7
27.5°	130.8	145.3	165.0	194.9	267.2	723.5	1954.7	3334.4	3759.6	3851.0
30°	115.5	127.6	146.6	169.5	222.1	557.8	1990.2	3626.3	4030.0	4131.5
32.5°	100.2	111.7	130.1	148.5	182.7	425.2	1965.5	3840.8	4292.7	4357.5
35°	85.7	97.7	112.9	130.1	158.0	343.4	1841.7	4082.0	4564.9	4615.7
37.5°	73.6	83.8	99.7	112.9	142.8	274.8	1691.9	4299.0	4870.2	4943.2
40°	62.2	72.3	88.2	100.2	131.4	216.4	1556.8	4540.2	5192.0	5282.2
42.5°	50.8	62.8	76.8	96.5	112.9	165.0	1393.0	4735.7	5433.8	5546.7
45°	40.6	53.9	69.2	95.8	98.4	125.6	1235.0	4888.0	5647.7	5749.2
47.5°	32.4	45.7	66.6	89.5	80.6	99.7	1144.9	5047.3	5825.4	5906.6
50°	26.0	38.1	69.8	78.7	67.3	84.4	1142.3	5225.0	5917.4	5971.4
52.5°	20.9	31.1	59.0	60.3	57.1	74.3	1210.9	5425.0	6011.3	6055.8
55°	17.7	26.0	38.7	44.4	51.4	67.3	1262.3	5732.8	6235.3	6277.2
57.5°	14.0	22.2	29.9	35.6	45.7	61.6	1269.3	5970.1	6519.0	6546.3
59°	12.0	19.0	26.7	31.7	41.9	57.8	1240.7	5984.6	6537.4	6581.2
60°	10.2	17.2	23.5	29.9	38.7	54.6	1209.6	5878.7	6468.9	6517.8
62.5°	7.7	13.3	17.2	24.1	31.7	46.9	1062.4	5508.7	6206.8	6241.1
65°	5.0	9.5	12.7	17.7	24.7	40.6	865.6	5028.9	5801.9	5878.7
67.5°	3.2	7.0	10.2	13.3	20.3	34.2	616.9	4312.4	5235.1	5284.7
70°	1.9	4.5	7.7	10.8	15.9	27.2	366.2	3408.7	4355.5	4365.7
72.5°	1.3	3.2	5.0	7.7	12.7	24.7	177.7	2221.9	3180.2	3301.4
75°	0.7	1.9	3.2	5.7	10.2	20.3	85.0	1484.4	2313.9	2348.8
77.5°	0.0	0.7	1.9	3.8	7.7	15.9	49.5	974.8	1577.7	1613.9
80°	0.0	0.0	1.3	3.2	5.7	10.2	29.9	575.0	955.8	973.5
82.5°	0.0	0.0	0.7	2.5	3.8	7.7	15.2	252.6	625.8	632.1
85°	0.0	0.0	0.7	2.5	3.2	5.0	5.7	34.2	278.0	283.1
87.5°	0.0	0.0	0.7	3.2	3.2	3.2	3.2	1.9	23.5	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)