

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: P451363

Luminaire Tested: **GALN-SA2B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8249 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

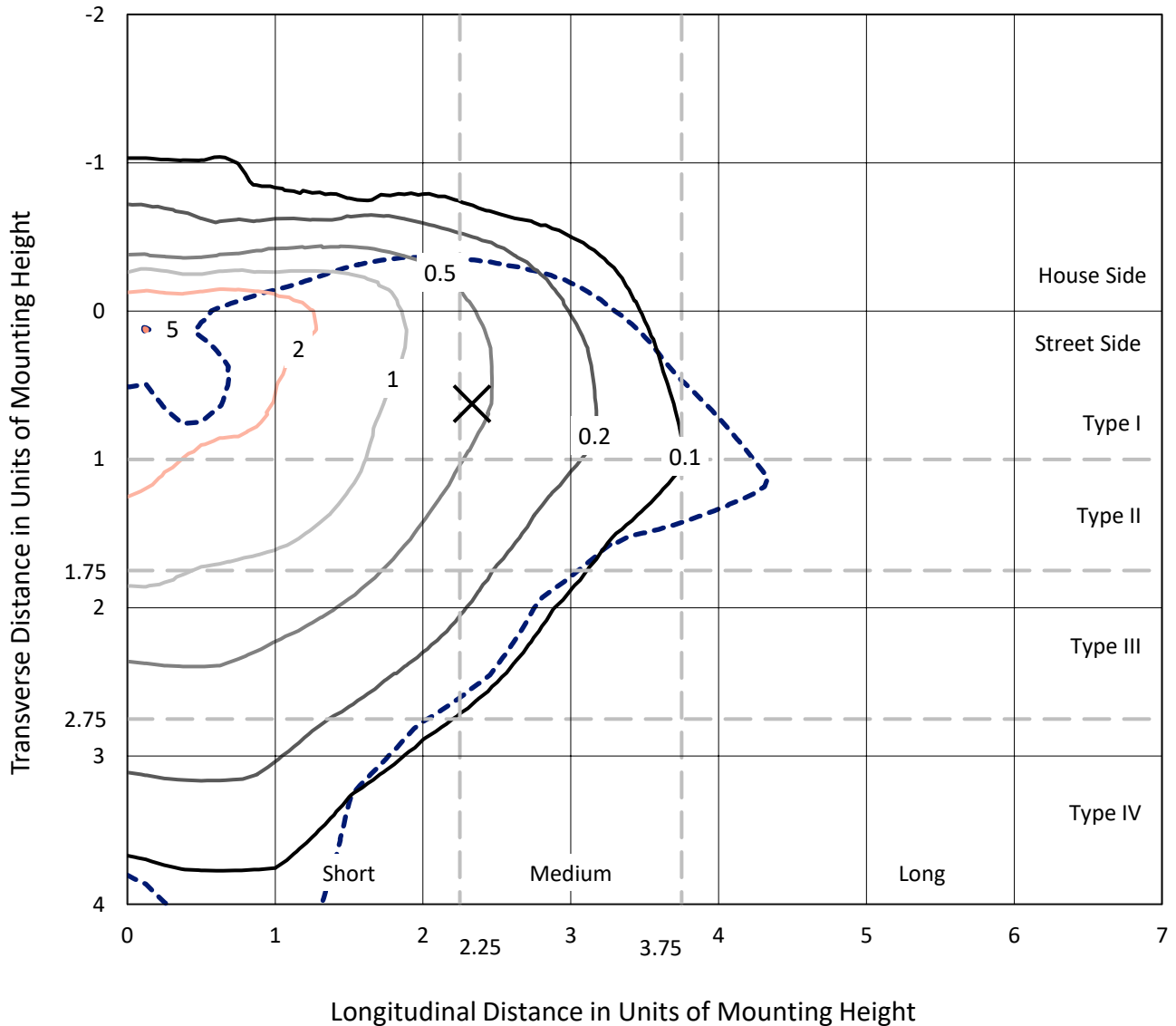
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

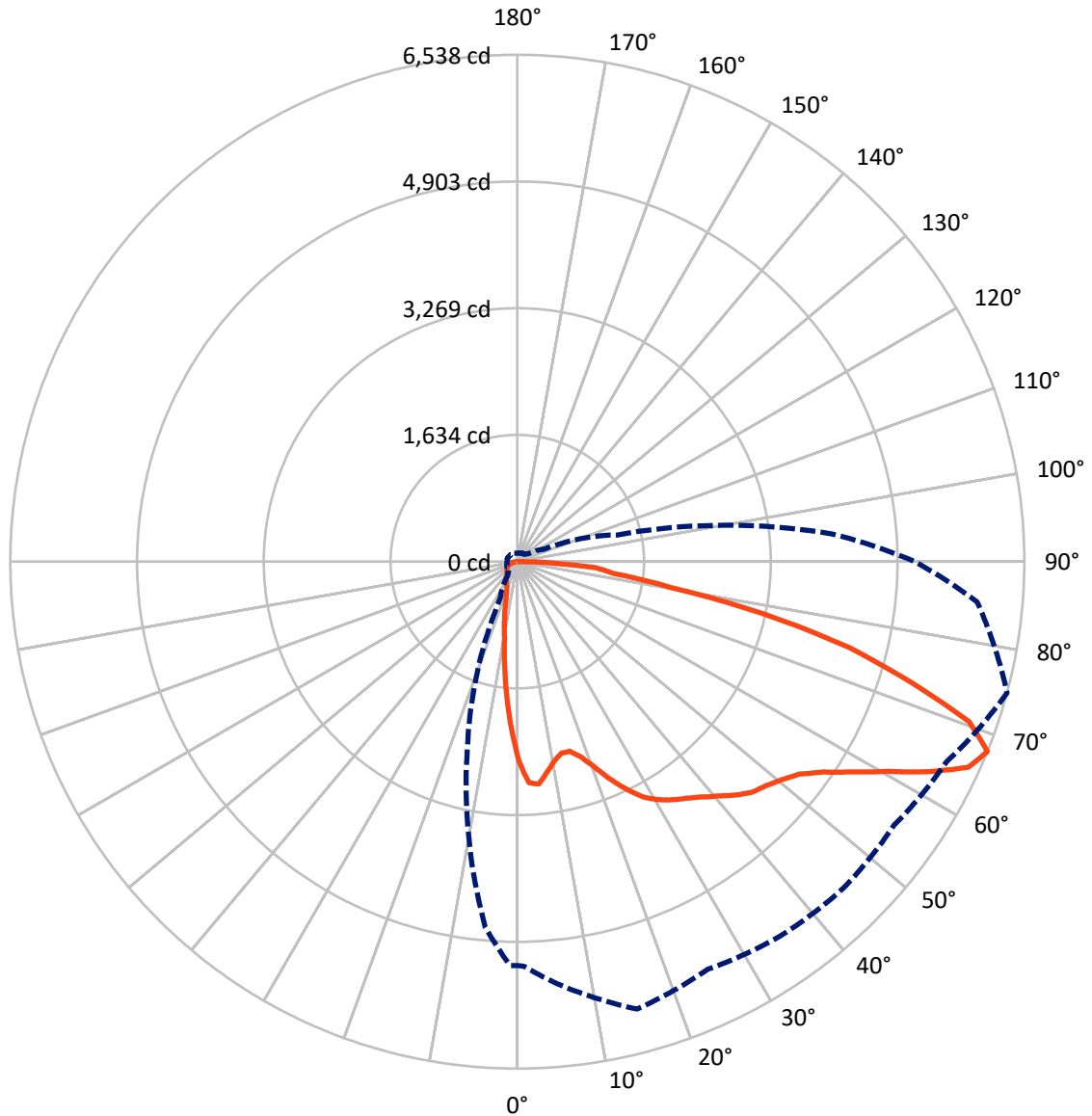
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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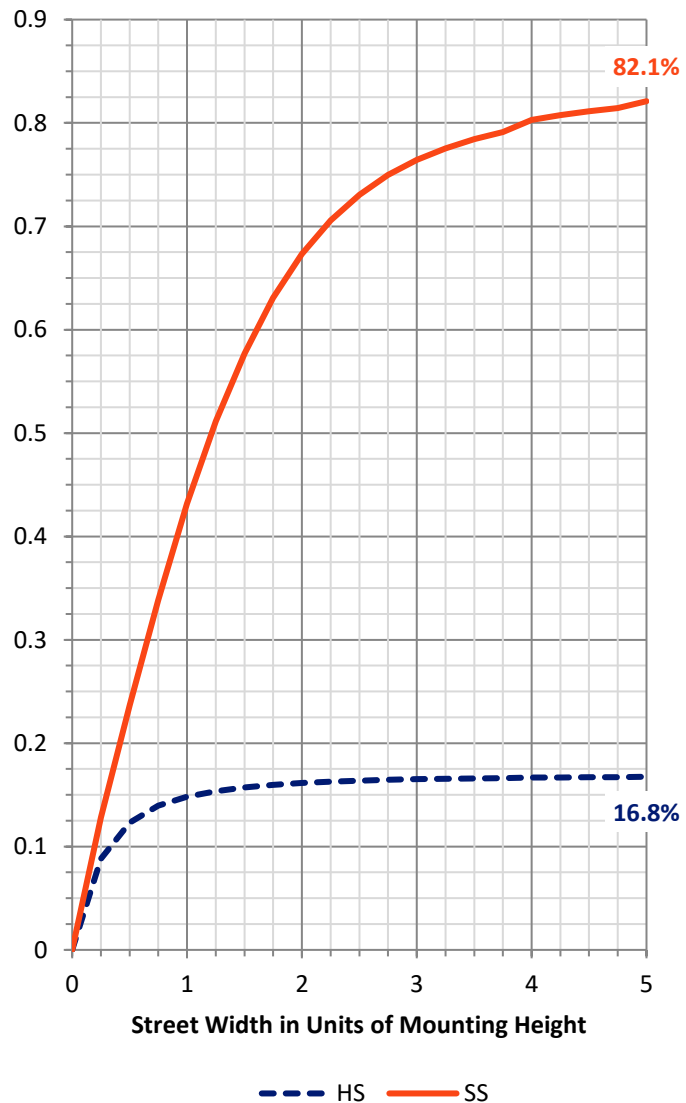
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.3	0.0	1394.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6854.7	0.0	6854.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	8249.0	0.0	8249.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	2.4
10°-20°	407.7	4.9
20°-30°	586.6	7.1
30°-40°	844.9	10.2
40°-50°	1186.9	14.4
50°-60°	1655.3	20.1
60°-70°	1968.0	23.9
70°-80°	1159.1	14.1
80°-90°	245.1	3.0
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°	8249.0	100.0
0°-180°	8249.0	100.0



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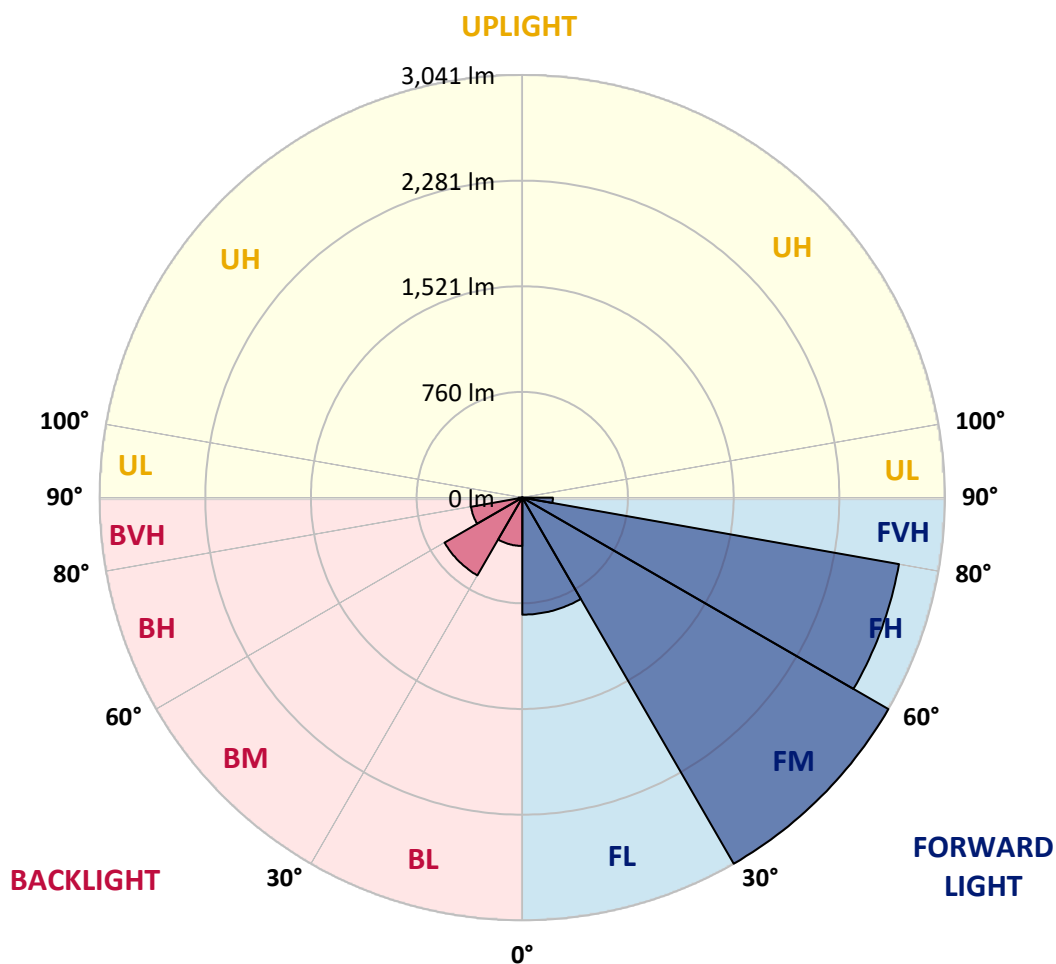
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.0	10.2			
FM (30°-60°)	3041.1	36.9			
FH (60°-80°)	2751.9	33.4			G2/5000
FVH (80°-90°)	219.7	2.7			G2/225
BL (0°-30°)	347.8	4.2	B1/500		
BM (30°-60°)	646.0	7.8	B1/1000		
BH (60°-80°)	375.2	4.5	B1/500		G1/500
BVH (80°-90°)	25.4	0.3			G1/100
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°	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2
2.5°	2778.7	2782.4	2806.2	2875.5	2923.1	2940.6	2952.8	2930.0	2907.8	2853.8	2772.4
5°	2770.3	2791.9	2853.8	3009.4	3132.1	3185.0	3200.8	3132.6	3019.9	2881.3	2714.7
7.5°	2608.4	2637.5	2732.7	2993.5	3209.8	3333.6	3317.2	3194.0	2990.8	2743.8	2511.1
10°	2416.4	2448.6	2563.4	2878.7	3157.5	3327.8	3327.8	3177.6	2907.8	2614.2	2346.0
12.5°	2264.0	2297.9	2429.1	2760.7	3048.5	3209.8	3236.8	3107.7	2848.0	2532.2	2237.6
15°	2213.8	2246.6	2387.8	2689.3	2933.2	3031.6	3040.6	2998.2	2818.9	2538.0	2232.8
17.5°	2276.2	2318.5	2461.3	2710.5	2827.4	2833.2	2840.1	2873.4	2822.1	2644.4	2329.1
20°	2456.6	2502.1	2651.2	2778.7	2734.8	2674.5	2678.2	2763.9	2859.7	2820.0	2559.2
22.5°	2716.8	2756.5	2909.4	2898.8	2695.7	2571.4	2545.4	2665.0	2915.2	3039.0	2804.1
25°	2997.7	3044.3	3219.9	3077.1	2706.8	2510.0	2493.6	2606.8	2972.9	3243.7	3087.1
27.5°	3319.3	3364.8	3503.4	3256.9	2765.0	2505.2	2485.7	2601.5	3024.7	3433.1	3357.4
30°	3558.4	3600.2	3694.4	3408.2	2836.4	2537.0	2512.6	2643.3	3069.1	3562.7	3620.9
32.5°	3746.2	3789.6	3840.9	3502.4	2930.5	2594.6	2549.7	2719.5	3127.3	3661.6	3816.1
35°	3941.9	3993.3	3989.6	3585.9	3018.4	2661.3	2617.4	2829.5	3218.8	3747.8	4063.6
37.5°	4190.0	4210.7	4184.2	3661.1	3123.6	2781.4	2757.0	2993.0	3349.0	3852.0	4353.0
40°	4441.8	4483.1	4347.1	3752.0	3251.6	3007.2	3004.6	3234.7	3503.4	3974.2	4633.3
42.5°	4657.7	4692.6	4499.5	3831.4	3406.6	3282.8	3302.9	3559.0	3706.0	4116.0	4858.7
45°	4820.1	4851.3	4640.2	3908.1	3610.8	3601.3	3719.8	3906.5	3961.5	4243.5	4990.9
47.5°	4958.1	4988.3	4738.1	4024.5	3863.1	3981.6	4187.9	4268.9	4180.0	4316.5	5139.0
50°	5074.5	5083.5	4805.2	4163.1	4176.3	4447.7	4647.6	4700.0	4395.8	4421.2	5267.6
52.5°	5195.6	5184.0	4921.1	4337.6	4514.8	4889.9	5035.3	5089.8	4602.6	4550.3	5454.8
55°	5467.0	5478.1	5180.8	4557.7	4857.1	5324.2	5515.7	5463.3	4831.7	4787.8	5692.9
57.5°	5795.0	5785.4	5546.3	4902.0	5205.7	5728.3	5871.1	5787.0	5137.4	5114.2	5934.1
60°	5922.4	5935.1	5852.1	5272.3	5549.5	6082.2	6228.2	6097.5	5504.0	5493.4	6116.0
62.5°	5794.4	5865.8	5921.9	5601.9	5842.6	6342.5	6487.4	6338.2	5886.5	5963.2	6243.5
65°	5539.5	5554.8	5745.8	5881.2	5983.8	6385.3	6460.9	6381.6	6206.0	6391.1	6237.7
67.5°	5208.3	5221.5	5445.3	5972.7	5801.8	5898.6	5951.5	5928.3	6107.1	6537.6	5950.5
70°	4893.1	4882.5	5118.9	5739.4	5050.7	4903.6	4947.5	4874.5	5269.7	6179.5	5387.1
72.5°	4279.4	4317.5	4571.4	5090.9	3999.1	3760.0	3855.7	3666.9	4053.0	5292.4	4372.5
75°	3352.1	3361.1	3784.8	4272.6	3016.8	2639.6	2769.2	2690.4	3104.6	4414.9	3019.4
77.5°	2321.2	2301.1	2756.5	3263.3	2151.4	1932.4	1934.5	1896.9	2167.8	3250.6	2051.4
80°	1474.3	1443.6	1725.5	2015.9	1478.5	1581.6	1529.8	1528.2	1411.3	2005.4	1240.5
82.5°	796.6	830.5	1090.2	1263.7	1060.6	1222.5	1120.4	1087.6	968.6	1255.3	793.5
85°	362.9	394.6	581.3	859.6	805.6	814.6	544.3	642.2	801.4	1019.3	423.7
87.5°	35.4	45.5	120.1	405.7	275.1	216.9	80.9	156.0	201.5	362.4	33.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2
2.5°	2739.1	2711.5	2617.9	2540.7	2458.7	2396.3	2314.8	2260.3	2222.8	2166.2	2159.3
5°	2613.2	2546.0	2383.0	2216.9	2073.6	1965.7	1856.2	1755.7	1696.4	1677.9	1654.1
7.5°	2401.0	2287.8	2078.4	1887.9	1723.4	1562.6	1438.8	1351.0	1292.3	1257.9	1216.7
10°	2226.5	2095.3	1840.3	1607.0	1471.6	1371.6	1262.7	1168.5	1096.0	1034.2	1000.3
12.5°	2109.0	1960.9	1674.2	1484.8	1380.1	1273.8	1146.3	1040.5	933.6	863.3	833.1
15°	2073.6	1917.0	1622.9	1424.0	1273.8	1134.7	991.8	853.8	748.0	681.3	659.1
17.5°	2160.3	1971.0	1622.4	1343.1	1148.9	982.8	799.8	670.2	561.8	512.1	496.2
20°	2322.2	2074.7	1627.1	1263.2	1013.5	779.7	581.9	475.6	423.7	402.6	394.6
22.5°	2548.1	2232.8	1641.4	1184.4	865.4	598.8	435.9	381.9	363.4	359.7	358.1
25°	2826.3	2428.5	1689.6	1113.5	740.6	457.0	364.5	340.1	329.6	325.9	325.3
27.5°	3082.4	2681.4	1747.7	1052.7	620.0	394.1	329.6	308.9	298.3	297.8	298.9
30°	3313.5	2893.0	1796.4	984.4	528.4	350.2	306.8	286.2	276.1	275.6	278.8
32.5°	3513.5	3067.0	1832.4	917.2	477.7	323.2	286.2	264.0	255.5	253.9	255.5
35°	3727.2	3240.5	1816.0	864.9	448.6	301.0	270.8	249.1	239.1	234.3	234.3
37.5°	3971.0	3419.3	1787.9	821.5	435.3	282.5	257.6	236.5	226.4	221.6	221.1
40°	4237.1	3598.1	1749.3	782.9	422.1	271.4	248.6	226.4	214.2	209.5	208.4
42.5°	4472.0	3751.0	1717.6	757.5	400.4	273.5	240.7	219.0	203.7	197.3	196.8
45°	4676.2	3904.9	1711.8	742.7	382.5	270.3	238.6	213.2	195.2	188.3	187.3
47.5°	4835.9	4065.2	1745.1	734.2	362.9	253.4	252.3	209.5	187.8	180.4	179.3
50°	5030.6	4292.7	1821.3	716.8	344.9	237.5	266.6	208.9	182.0	172.4	169.8
52.5°	5289.8	4588.9	1924.4	685.6	319.0	222.7	254.4	208.9	175.1	165.6	162.4
55°	5681.8	4966.6	2025.5	641.7	282.5	203.1	229.6	202.6	165.0	156.6	154.5
57.5°	5941.5	5242.7	2090.0	580.8	237.0	188.8	197.8	192.5	155.0	146.0	146.0
60°	5954.7	5316.8	2059.3	504.1	208.4	175.6	171.9	194.1	146.0	136.5	135.4
62.5°	5802.4	5135.3	1899.6	435.3	193.1	161.3	155.5	170.3	137.0	127.5	125.9
65°	5564.3	4672.5	1622.4	402.6	184.6	148.6	140.2	139.7	127.5	118.5	116.4
67.5°	5126.9	4083.2	1333.0	383.5	180.4	134.4	126.4	123.8	116.4	109.0	107.9
70°	4482.0	3419.8	1069.1	375.6	178.3	119.5	113.2	110.0	103.7	97.9	97.3
72.5°	3487.0	2774.0	882.3	370.3	177.2	105.8	98.9	94.7	91.0	85.7	85.7
75°	2504.7	2040.8	673.4	333.8	164.0	91.0	83.6	80.9	75.6	71.4	72.5
77.5°	1579.0	1374.3	443.3	245.4	127.0	73.0	66.7	65.1	60.8	55.0	58.7
80°	1066.4	966.4	258.7	154.5	79.9	53.4	51.3	50.8	46.0	39.7	40.2
82.5°	725.8	712.0	134.4	87.8	46.0	31.2	30.2	31.2	25.9	21.2	21.2
85°	283.5	387.2	63.5	34.4	14.8	4.8	6.9	7.4	4.2	2.1	2.6
87.5°	5.3	39.7	1.6	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°	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2
2.5°	2148.7	2143.9	2151.9	2118.0	2124.9	2137.6	2143.9	2147.7	2200.0	2187.9	2221.2
5°	1676.3	1671.6	1702.3	1706.5	1722.4	1719.2	1734.5	1738.2	1757.3	1764.1	1810.7
7.5°	1219.3	1239.9	1274.8	1292.8	1319.8	1328.3	1320.3	1339.9	1300.2	1328.8	1337.3
10°	979.7	954.8	940.0	981.3	986.5	1025.7	1009.8	997.1	1020.4	1021.5	1043.7
12.5°	815.7	762.3	726.8	738.5	751.1	768.1	770.7	796.1	813.0	828.9	842.1
15°	639.5	621.0	588.8	572.9	590.9	597.7	614.1	635.3	653.3	658.0	676.0
17.5°	490.9	494.1	488.8	479.3	490.4	495.7	496.7	497.2	502.0	498.8	525.3
20°	395.1	406.3	419.5	421.6	425.3	427.9	423.2	405.2	405.7	416.8	425.3
22.5°	357.6	359.7	374.5	379.3	390.9	386.2	372.4	363.9	362.9	365.5	369.8
25°	328.0	331.1	341.7	349.1	358.1	349.7	339.6	331.7	330.6	333.3	337.5
27.5°	301.5	306.3	315.8	323.2	331.7	323.7	314.2	307.3	306.8	306.3	308.9
30°	280.4	285.6	292.5	301.0	306.8	299.9	290.9	287.2	286.7	285.6	286.7
32.5°	259.2	267.7	274.5	278.8	284.6	279.3	272.4	270.3	266.6	263.4	261.8
35°	235.4	244.4	255.0	260.3	266.1	260.8	256.0	247.0	240.7	240.2	241.2
37.5°	221.6	225.3	233.8	242.8	248.6	246.0	237.0	228.0	226.4	226.4	227.5
40°	209.5	211.1	214.8	226.4	237.0	229.0	217.9	215.3	215.3	214.8	215.3
42.5°	197.3	198.9	198.9	207.9	224.8	212.1	203.7	203.7	203.7	204.2	205.8
45°	186.2	186.7	186.2	192.5	208.4	197.8	192.0	193.6	194.7	195.7	196.8
47.5°	176.7	177.2	176.7	182.0	189.9	185.7	182.5	184.6	186.7	188.3	189.4
50°	168.2	167.7	168.7	171.9	175.6	176.7	174.6	177.7	178.8	180.9	183.6
52.5°	160.8	160.3	161.3	162.9	168.2	168.2	168.2	170.9	173.0	175.1	178.8
55°	152.3	152.9	154.5	156.6	163.5	162.4	162.9	165.0	167.2	170.3	172.4
57.5°	144.4	145.5	147.6	150.8	157.6	157.1	157.6	158.7	161.3	162.9	165.0
60°	135.4	137.5	140.2	142.3	149.2	148.6	151.3	153.4	155.0	155.0	156.0
62.5°	126.4	129.6	132.2	133.8	141.2	141.8	145.5	147.1	148.1	147.1	148.6
65°	117.4	122.2	123.3	125.4	132.8	133.3	137.5	141.2	140.2	139.1	141.8
67.5°	108.4	114.3	113.7	116.4	123.8	124.8	128.5	134.9	132.8	131.7	133.8
70°	98.4	102.6	103.2	104.7	114.8	113.2	119.0	124.8	123.3	123.8	123.8
72.5°	87.3	91.0	91.0	94.2	104.7	102.1	106.9	113.2	113.2	112.7	112.7
75°	74.1	76.2	78.3	83.0	94.2	91.0	94.2	100.0	101.0	100.0	100.0
77.5°	59.8	62.9	64.0	70.4	78.3	77.8	80.9	83.6	85.7	84.6	84.6
80°	42.3	45.5	49.7	56.6	61.4	62.9	64.5	66.7	67.7	67.7	68.8
82.5°	23.8	28.6	32.3	39.1	41.3	49.2	48.7	50.3	48.7	42.8	47.6
85°	5.3	10.1	14.3	18.0	20.6	28.6	30.2	33.9	28.0	25.9	25.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	8.5	11.6	10.1	8.5	8.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2
2.5°	2249.2	2295.2	2350.8	2446.5	2513.7	2586.2	2659.2	2736.9	2757.6	2778.7
5°	1823.4	1913.8	1963.0	2091.6	2226.5	2397.9	2538.0	2691.4	2755.4	2770.3
7.5°	1381.2	1442.5	1571.6	1701.7	1868.9	2048.7	2263.5	2502.6	2577.2	2608.4
10°	1095.0	1178.6	1291.8	1431.4	1577.9	1771.5	2013.8	2293.1	2398.9	2416.4
12.5°	932.1	1025.2	1148.4	1296.0	1434.6	1580.6	1825.0	2113.3	2226.5	2264.0
15°	745.3	858.0	1000.3	1155.8	1306.6	1466.3	1713.9	2039.2	2169.9	2213.8
17.5°	585.6	676.6	830.5	999.2	1178.0	1380.1	1690.6	2074.7	2235.5	2276.2
20°	448.0	513.1	642.7	821.0	1030.4	1294.9	1696.4	2208.5	2401.0	2456.6
22.5°	387.2	420.5	499.4	669.2	903.5	1220.9	1720.2	2392.0	2624.3	2716.8
25°	350.7	368.2	412.6	523.7	782.4	1148.9	1774.7	2639.1	2936.4	2997.7
27.5°	319.5	332.2	359.7	439.6	672.3	1082.3	1838.2	2913.1	3227.8	3319.3
30°	289.9	306.8	332.7	390.4	602.0	1021.5	1918.1	3135.3	3473.3	3558.4
32.5°	267.1	284.1	307.9	356.0	542.2	957.5	1965.7	3330.4	3673.8	3746.2
35°	248.6	262.9	287.8	328.5	496.7	908.8	1956.2	3485.4	3867.9	3941.9
37.5°	235.4	247.6	272.4	302.6	462.3	858.0	1951.4	3690.2	4104.3	4190.0
40°	223.2	235.9	258.7	285.6	427.9	798.2	1954.0	3893.3	4356.1	4441.8
42.5°	213.7	228.0	246.5	280.9	392.5	750.1	1954.0	4070.0	4575.1	4657.7
45°	205.8	221.1	239.1	280.4	364.5	713.6	1940.8	4221.8	4749.7	4820.1
47.5°	198.9	215.8	241.7	270.8	357.6	687.1	1929.2	4343.4	4892.0	4958.1
50°	194.1	214.2	257.1	259.7	359.7	679.2	1985.3	4496.8	5017.4	5074.5
52.5°	190.4	214.8	256.6	243.3	356.0	684.5	2102.2	4736.5	5191.4	5195.6
55°	183.0	214.2	243.3	224.8	340.7	693.5	2252.4	5084.5	5463.8	5467.0
57.5°	175.6	208.4	225.9	208.9	309.5	693.5	2433.3	5414.1	5792.3	5795.0
60°	168.2	216.9	198.4	195.2	268.7	680.8	2624.3	5559.0	5895.5	5922.4
62.5°	160.8	218.5	177.2	183.0	239.1	650.1	2766.6	5398.8	5755.8	5794.4
65°	152.3	176.1	163.5	170.3	223.8	598.8	2721.6	5105.2	5493.4	5539.5
67.5°	142.3	149.2	148.6	157.1	218.5	523.2	2484.6	4733.8	5211.0	5208.3
70°	130.1	133.8	135.4	144.4	208.4	464.4	2070.4	4251.9	4833.8	4893.1
72.5°	117.4	120.6	122.2	130.1	198.4	431.1	1607.0	3588.1	4186.9	4279.4
75°	103.7	105.8	107.9	114.8	187.8	381.9	1144.7	2739.1	3206.7	3352.1
77.5°	89.4	89.4	92.0	98.9	158.2	315.3	768.1	1921.2	2172.5	2321.2
80°	72.5	73.0	71.9	79.3	116.4	215.8	436.4	1283.3	1445.7	1474.3
82.5°	55.5	54.0	54.5	58.2	86.8	147.1	232.8	797.2	812.5	796.6
85°	34.9	34.9	33.9	38.1	55.5	76.7	127.0	488.2	381.4	362.9
87.5°	14.3	11.6	13.2	15.3	26.4	31.2	49.7	100.5	38.6	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)