

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: P451364

Luminaire Tested: **GALN-SA2B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6873 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): 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

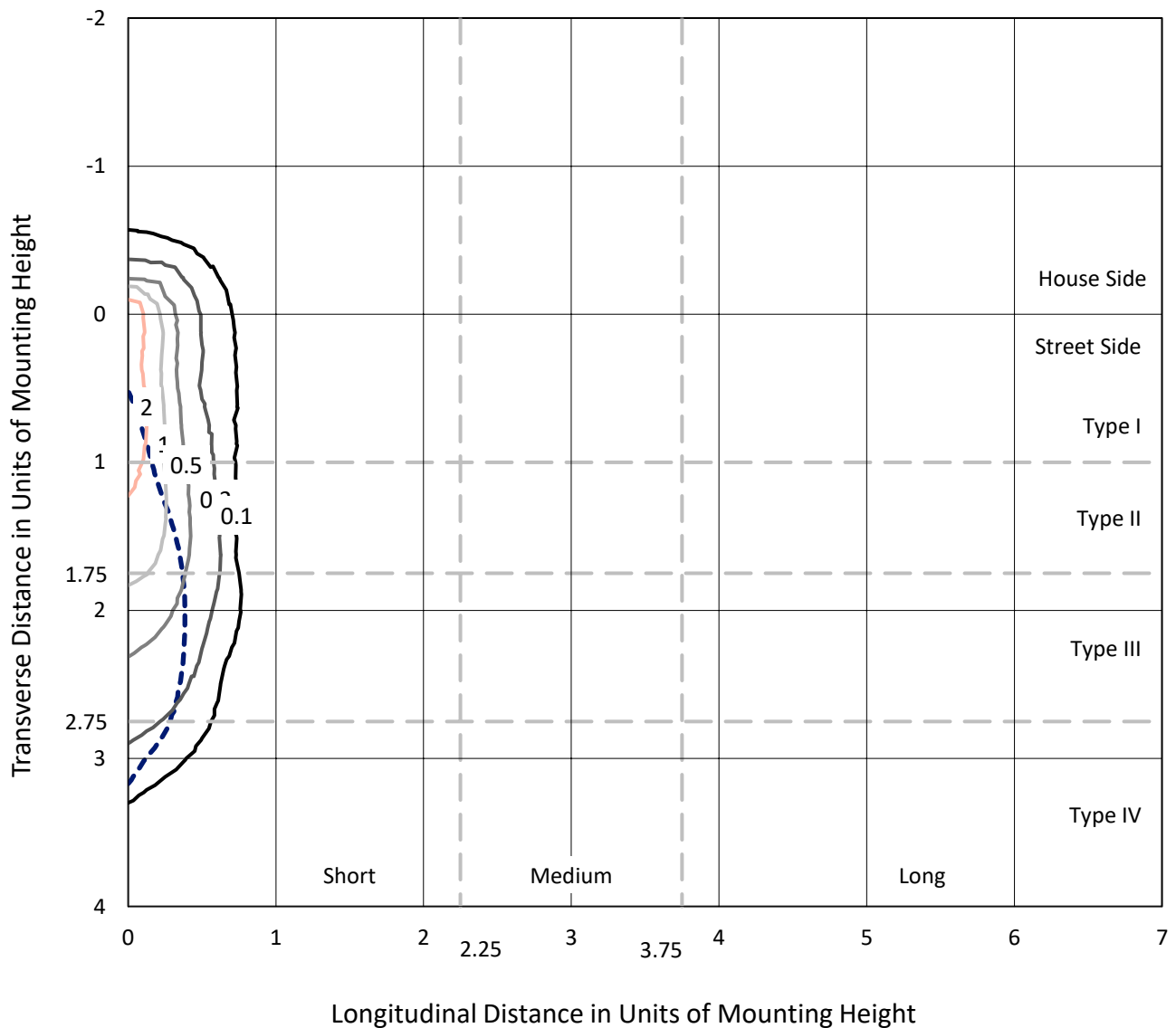




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Iso-Footcandle Lines of Horizontal Illumination

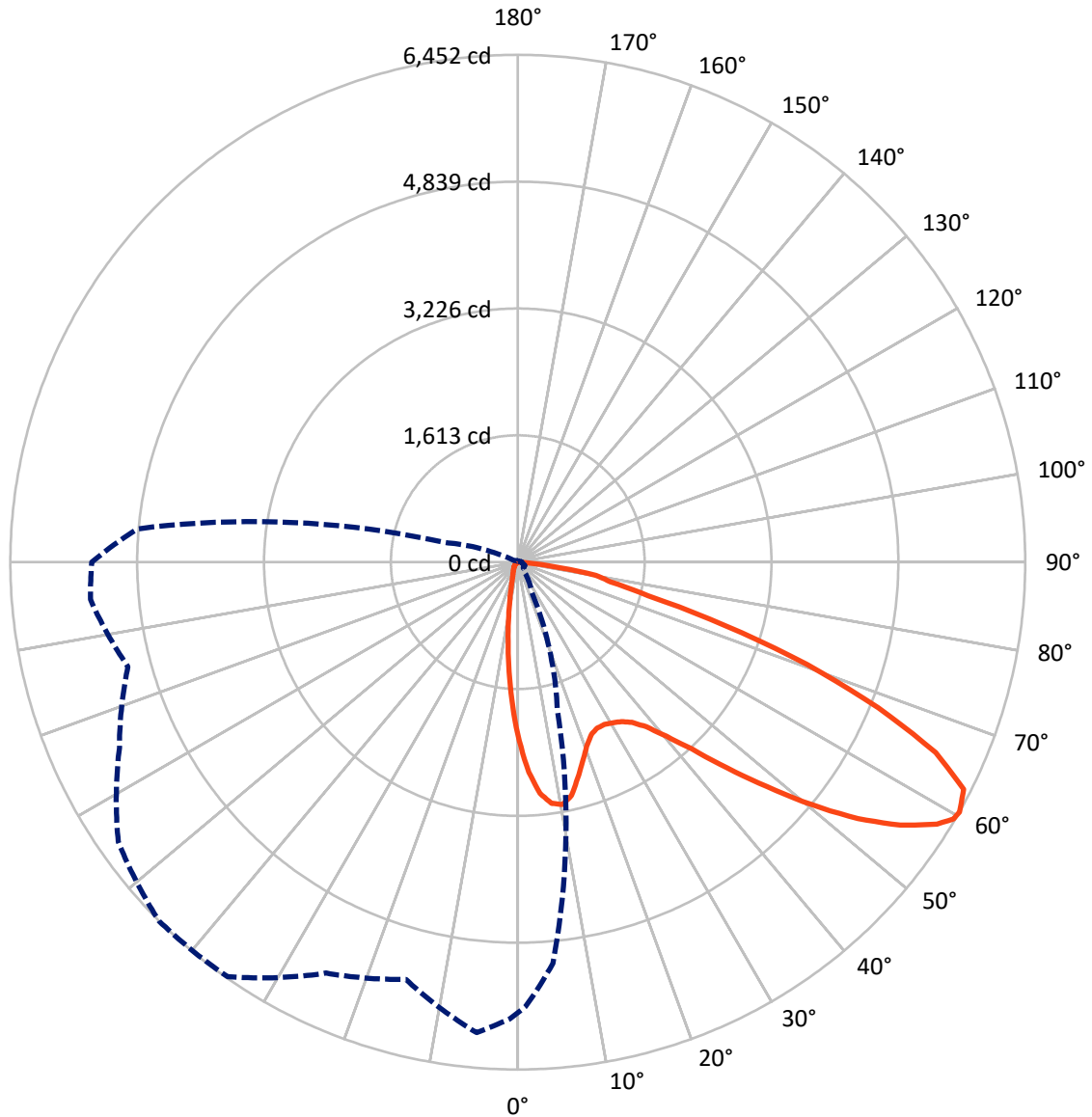
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.7	0.0	847.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6025.3	0.0	6025.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	6873.0	0.0	6873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	2.5
10°-20°	335.5	4.9
20°-30°	492.0	7.2
30°-40°	731.7	10.6
40°-50°	1064.8	15.5
50°-60°	1535.6	22.3
60°-70°	1689.0	24.6
70°-80°	756.5	11.0
80°-90°	98.8	1.4
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°	6873.0	100.0
0°-180°	6873.0	100.0

Coefficient of Utilization



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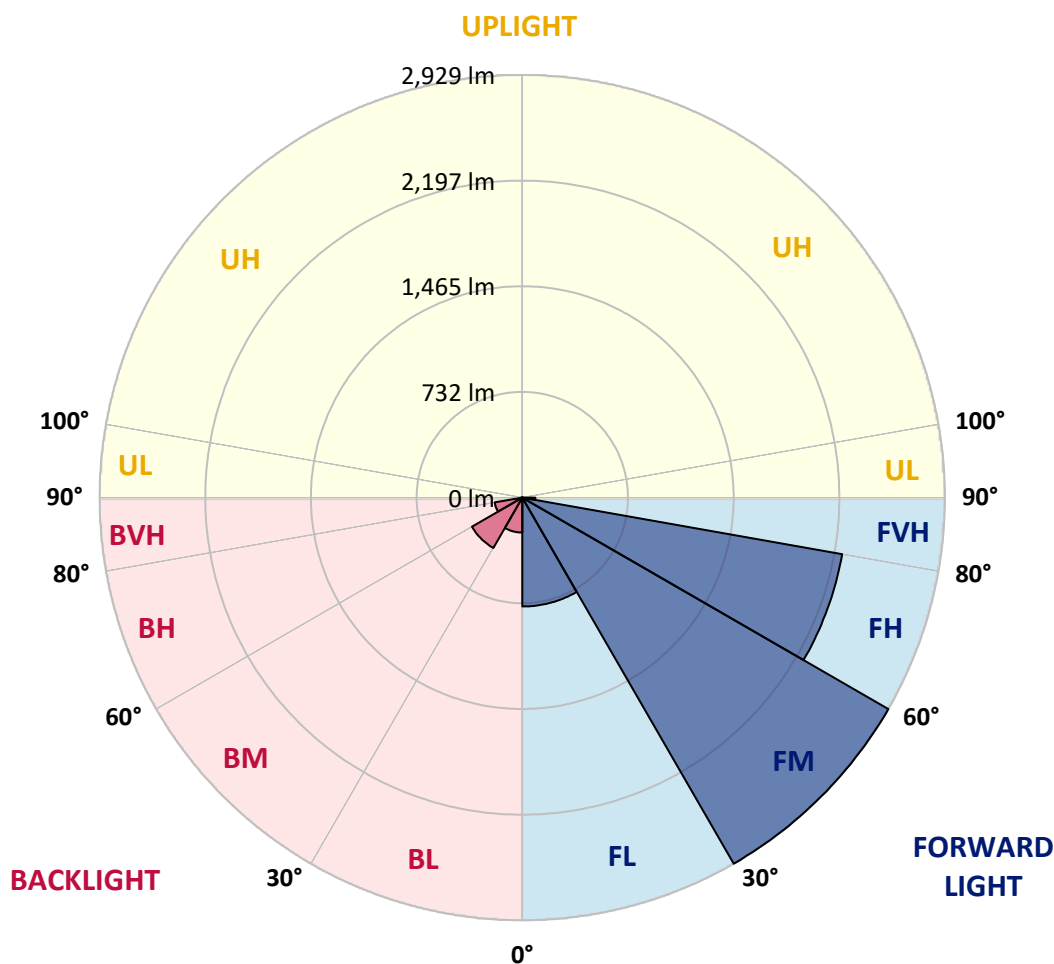
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.3	11.0			
FM (30°-60°)	2929.5	42.6			
FH (60°-80°)	2251.1	32.8			G2/5000
FVH (80°-90°)	90.4	1.3			G1/100
BL (0°-30°)	242.2	3.5	B1/500		
BM (30°-60°)	402.6	5.9	B1/1000		
BH (60°-80°)	194.4	2.8	B1/500		G1/500
BVH (80°-90°)	8.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6
2.5°	2497.3	2486.4	2461.3	2385.0	2318.6	2231.9	2144.1	2075.2	2032.9	1955.0	1919.5
5°	2419.5	2424.7	2352.1	2195.3	2020.8	1901.7	1771.6	1668.2	1554.3	1482.2	1406.4
7.5°	2216.2	2205.8	2126.9	1908.5	1696.4	1524.0	1359.4	1225.7	1141.6	1074.2	1017.7
10°	2042.3	2034.4	1933.6	1652.5	1424.7	1295.7	1184.4	1067.4	977.0	878.2	799.4
12.5°	1933.1	1915.3	1799.3	1505.7	1320.2	1200.1	1078.9	957.1	832.3	732.5	636.9
15°	1896.5	1870.9	1741.9	1455.0	1253.4	1100.8	948.8	808.8	665.1	554.8	482.7
17.5°	1962.9	1920.5	1783.1	1446.1	1173.4	971.2	784.2	601.9	452.4	368.3	323.9
20°	2114.9	2066.3	1887.6	1437.3	1084.6	826.0	596.1	425.3	312.9	267.0	242.4
22.5°	2340.6	2273.7	2042.3	1451.4	1002.6	684.4	430.5	300.4	248.7	220.0	202.7
25°	2611.7	2555.8	2238.2	1501.5	937.8	573.1	332.8	245.6	209.5	191.7	178.7
27.5°	2909.0	2819.7	2491.6	1561.6	878.8	486.9	292.1	219.4	186.5	170.3	163.5
30°	3120.6	3051.1	2703.7	1603.4	805.1	422.1	267.0	216.3	187.0	167.7	155.2
32.5°	3329.6	3240.8	2881.3	1622.7	751.3	377.2	230.9	188.6	164.1	154.1	141.6
35°	3553.2	3460.2	3058.4	1612.3	711.1	347.4	209.5	168.2	140.5	123.8	111.3
37.5°	3779.4	3681.2	3234.5	1574.7	686.0	335.4	192.8	159.9	132.7	115.5	101.9
40°	4048.0	3916.8	3399.6	1543.8	659.9	329.1	181.8	154.6	127.0	108.7	95.1
42.5°	4267.4	4142.5	3555.8	1527.7	642.1	314.5	181.8	150.5	123.3	102.9	88.8
45°	4475.3	4345.8	3724.6	1540.7	634.8	296.2	183.9	149.9	120.7	98.7	84.6
47.5°	4649.3	4537.0	3898.0	1589.8	625.4	276.4	172.9	157.3	119.1	95.1	80.5
50°	4854.6	4746.0	4127.4	1689.1	608.7	256.5	159.3	169.3	118.6	92.0	76.8
52.5°	5144.1	5026.5	4444.0	1801.9	582.0	226.2	146.8	167.7	116.5	86.7	73.1
55°	5497.8	5402.7	4810.7	1937.3	545.4	192.3	127.0	148.9	110.2	77.8	66.9
57.5°	5724.5	5643.5	5085.6	1995.8	489.5	157.3	111.8	124.9	100.8	69.5	59.6
59°	5751.2	5678.0	5143.0	1976.4	453.0	143.7	104.5	107.1	98.2	64.8	55.4
60°	5728.7	5652.9	5120.0	1938.8	419.0	134.3	98.2	95.1	98.7	62.2	52.2
62.5°	5584.5	5454.9	4897.0	1748.1	366.2	123.3	87.2	77.8	87.2	55.9	46.5
65°	5306.0	5111.7	4455.5	1479.6	345.3	117.0	74.2	65.3	66.4	49.1	40.2
67.5°	4819.6	4574.6	3867.7	1202.2	336.5	117.6	62.7	58.5	51.2	41.8	35.5
70°	4050.6	3806.1	3103.4	989.0	332.3	117.6	53.3	50.2	42.8	35.0	30.8
72.5°	2870.4	2607.0	2093.5	776.9	299.4	117.0	45.5	45.5	35.0	29.3	25.1
75°	1621.7	1623.8	1316.1	549.6	248.7	96.7	36.6	36.0	25.6	22.5	18.8
77.5°	945.1	928.4	887.1	236.1	115.5	43.9	25.6	21.9	17.8	16.2	13.6
80°	485.9	399.7	389.2	85.7	41.3	27.7	17.8	12.5	11.5	10.4	9.4
82.5°	143.7	144.2	128.5	34.5	23.0	18.3	8.9	6.8	6.3	5.7	5.7
85°	9.9	6.3	7.3	10.4	14.1	7.3	0.5	1.6	1.6	2.1	2.6
87.5°	1.0	0.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6
2.5°	1880.3	1903.3	1860.5	1861.5	1826.0	1837.5	1795.7	1809.3	1784.7	1803.5	1858.9
5°	1414.8	1420.0	1385.5	1374.6	1379.8	1401.2	1409.6	1371.4	1387.6	1355.8	1353.7
7.5°	996.8	1003.1	983.3	980.6	1018.3	1009.4	1025.6	986.4	949.3	965.5	935.7
10°	774.3	748.2	707.4	695.9	688.6	693.3	693.3	657.8	652.5	638.4	659.9
12.5°	611.3	579.4	540.7	488.5	475.4	474.4	455.1	423.7	413.8	401.8	419.5
15°	444.1	431.0	398.6	369.4	339.6	333.8	302.5	276.9	242.9	238.2	236.7
17.5°	312.4	293.1	292.6	275.9	258.6	247.1	217.9	188.6	175.5	174.0	174.0
20°	234.1	227.3	216.3	214.2	209.0	195.9	169.8	154.1	147.9	148.4	150.5
22.5°	197.0	192.3	182.3	177.6	175.5	164.1	144.7	134.3	131.1	131.1	131.7
25°	176.1	171.9	160.9	153.6	151.0	142.6	127.5	119.6	117.0	117.0	117.0
27.5°	160.4	155.2	143.7	137.4	132.7	123.3	113.9	106.1	103.4	103.4	104.0
30°	149.4	143.7	133.2	124.9	117.6	109.2	101.4	94.6	91.4	90.9	91.4
32.5°	134.8	129.6	119.1	113.9	105.5	95.6	89.3	83.1	79.9	80.5	79.9
35°	105.0	103.4	96.1	97.7	93.0	84.6	78.9	72.1	68.4	67.9	69.0
37.5°	95.6	89.3	81.0	81.5	79.9	76.8	67.4	60.1	57.5	57.5	58.0
40°	88.3	82.0	72.6	67.9	68.4	68.4	58.5	50.7	48.1	47.5	48.6
42.5°	82.0	75.8	65.3	57.5	55.4	58.0	49.6	41.8	39.2	38.1	39.2
45°	77.8	71.1	59.0	50.2	43.9	47.0	40.8	34.5	31.3	31.3	30.8
47.5°	73.7	67.4	54.3	43.4	36.6	35.0	33.4	27.7	24.6	24.0	24.6
50°	70.0	63.7	49.1	37.6	30.8	27.2	27.2	21.9	19.9	18.8	19.3
52.5°	66.4	59.6	44.4	33.4	26.6	21.9	19.3	17.8	16.2	15.7	16.2
55°	61.1	54.3	39.7	28.7	23.0	18.3	15.2	14.6	13.6	12.5	13.6
57.5°	54.9	48.6	35.0	24.6	18.3	14.1	12.5	12.0	11.0	10.4	10.4
59°	51.2	45.5	32.4	21.4	16.2	12.5	11.5	11.0	9.9	8.9	9.4
60°	49.1	44.4	30.8	19.9	14.6	11.5	10.4	9.9	8.9	8.4	8.9
62.5°	43.4	39.7	27.2	16.2	11.5	8.4	7.3	7.8	7.3	6.8	7.3
65°	38.1	35.0	23.0	12.5	8.9	5.7	5.2	6.8	6.3	5.7	6.3
67.5°	34.0	30.3	19.3	9.4	6.3	3.1	3.7	5.7	5.7	5.2	5.7
70°	29.3	26.1	15.7	6.8	3.1	1.6	2.6	4.2	5.2	4.7	5.2
72.5°	24.0	20.4	12.0	4.7	1.6	0.0	1.6	3.7	5.2	4.7	5.2
75°	18.8	15.2	8.9	2.6	0.0	0.0	0.5	3.1	5.2	4.7	5.2
77.5°	13.6	11.0	5.2	0.5	0.0	0.0	0.5	3.1	5.2	4.7	5.2
80°	8.9	7.8	2.1	0.0	0.0	0.0	0.5	3.1	5.2	5.2	5.7
82.5°	5.7	4.2	0.0	0.0	0.0	0.0	1.0	4.2	5.7	6.3	6.3
85°	2.6	0.0	0.0	0.0	0.0	0.0	2.1	5.2	6.8	6.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.7	6.3	7.8	7.8	7.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6
2.5°	1868.3	1901.2	1947.7	2019.3	2077.3	2168.7	2238.7	2334.3	2431.0	2460.2	2505.7
5°	1375.1	1417.4	1522.9	1619.1	1679.7	1873.0	1995.2	2188.0	2361.0	2444.0	2534.4
7.5°	955.0	1005.2	1085.7	1219.9	1347.4	1504.7	1702.2	1922.6	2176.0	2294.6	2422.1
10°	670.3	733.0	846.4	956.6	1117.0	1266.4	1461.3	1704.8	1984.3	2124.3	2284.2
12.5°	423.2	479.1	629.0	752.9	953.0	1126.4	1306.1	1526.6	1850.5	1994.2	2161.9
15°	241.9	288.9	358.9	517.8	739.8	969.1	1193.3	1449.3	1782.1	1959.2	2140.5
17.5°	180.2	192.8	224.1	314.0	516.2	784.2	1089.3	1425.8	1828.6	2036.5	2243.4
20°	151.5	159.9	174.5	210.0	329.1	604.0	988.0	1430.0	1979.1	2240.3	2436.7
22.5°	135.8	141.1	153.1	176.1	224.7	439.9	869.4	1454.5	2161.4	2490.5	2717.3
25°	119.1	125.9	136.4	156.2	187.0	305.1	752.3	1509.4	2416.9	2808.2	3021.3
27.5°	106.1	112.3	122.8	141.1	164.1	233.0	616.0	1556.4	2686.5	3127.9	3302.4
30°	93.0	99.3	109.7	124.3	145.2	188.6	469.2	1584.1	2948.2	3367.7	3502.0
32.5°	82.0	87.2	97.2	110.2	127.5	159.9	369.9	1555.3	3148.3	3585.6	3675.5
35°	71.1	77.3	85.7	97.7	112.8	136.4	307.7	1456.1	3320.2	3809.7	3842.1
37.5°	59.6	66.9	75.8	86.7	98.7	125.4	247.1	1346.4	3504.1	4089.2	4035.9
40°	50.2	56.9	65.3	77.3	88.3	114.9	190.2	1229.3	3702.6	4351.5	4247.5
42.5°	40.8	48.1	58.0	69.0	87.2	100.3	147.3	1108.1	3880.8	4579.8	4438.8
45°	32.4	38.7	49.1	63.2	86.7	86.2	113.9	988.5	4015.0	4742.8	4581.4
47.5°	25.6	30.8	41.3	61.6	79.9	73.1	91.4	914.3	4156.1	4889.6	4690.6
50°	20.4	25.6	35.5	64.3	70.0	62.7	76.8	926.3	4292.5	4964.3	4735.5
52.5°	17.2	22.5	30.8	50.7	53.8	54.9	67.4	981.7	4468.5	5044.3	4824.9
55°	15.2	19.9	26.1	35.5	41.8	49.1	61.6	1021.9	4704.2	5215.6	5021.8
57.5°	12.0	17.2	23.5	30.3	34.5	42.8	56.9	1025.1	4917.3	5435.6	5283.6
59°	11.0	15.7	21.9	28.7	30.8	38.7	53.8	998.4	4925.2	5468.5	5403.7
60°	9.9	15.2	20.9	26.6	29.3	36.6	51.2	967.6	4854.1	5416.3	5453.4
62.5°	8.4	13.1	18.3	21.4	25.1	30.3	44.4	855.8	4509.8	5179.6	5361.4
65°	7.3	11.5	15.7	17.8	20.9	26.1	39.2	684.9	4129.5	4858.8	5098.1
67.5°	6.8	10.4	13.6	15.2	18.3	24.0	35.0	483.8	3636.8	4451.8	4702.6
70°	6.3	9.9	12.0	14.1	16.2	20.4	29.8	282.1	2801.4	3738.1	4003.0
72.5°	6.3	9.4	10.4	12.0	14.1	18.3	27.7	152.6	1915.3	2851.5	3193.8
75°	6.3	8.9	9.4	10.4	12.5	16.7	24.6	79.9	1238.2	1981.1	2445.1
77.5°	6.3	8.4	9.4	9.9	12.0	14.6	21.4	50.2	825.0	1387.6	1652.5
80°	6.8	8.4	8.9	9.9	11.5	13.6	17.8	33.4	484.8	834.9	1005.7
82.5°	7.3	8.4	9.4	10.4	12.0	13.1	15.7	20.9	223.6	552.2	624.9
85°	7.8	8.9	9.9	11.0	12.5	13.1	14.6	15.2	36.6	249.2	337.0
87.5°	8.4	9.4	10.4	11.5	13.6	13.6	13.6	13.6	12.5	26.6	67.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6	2271.6
2.5°	2563.2	2622.2	2663.5	2673.9	2644.1	2630.5	2592.9	2534.4	2498.9	2497.3
5°	2701.1	2839.5	2935.7	2951.9	2894.4	2797.2	2681.8	2532.9	2445.6	2419.5
7.5°	2677.6	2920.0	3074.6	3097.1	3000.4	2815.0	2591.4	2351.6	2256.5	2216.2
10°	2580.9	2876.6	3097.6	3133.1	3004.1	2742.9	2458.7	2191.2	2073.1	2042.3
12.5°	2498.4	2797.2	2993.7	3042.8	2945.1	2684.4	2379.3	2088.2	1961.8	1933.1
15°	2462.3	2703.2	2823.3	2848.4	2832.2	2647.8	2370.9	2072.6	1927.9	1896.5
17.5°	2498.4	2623.2	2638.4	2664.0	2700.0	2644.1	2451.3	2157.7	2001.5	1962.9
20°	2592.9	2553.7	2491.1	2502.0	2584.6	2659.3	2594.5	2346.3	2156.2	2114.9
22.5°	2753.8	2536.5	2394.4	2385.0	2489.5	2710.0	2804.5	2601.8	2381.3	2340.6
25°	2951.3	2579.9	2358.9	2338.5	2452.4	2784.2	3032.8	2914.8	2673.9	2611.7
27.5°	3166.6	2669.7	2358.9	2339.0	2449.3	2850.0	3228.2	3191.7	2976.9	2909.0
30°	3284.7	2743.9	2392.8	2370.4	2487.9	2888.1	3332.7	3437.7	3204.7	3120.6
32.5°	3390.2	2846.8	2459.2	2416.9	2568.9	2944.5	3426.2	3646.7	3386.0	3329.6
35°	3487.4	2957.1	2550.6	2501.5	2675.5	3021.9	3529.7	3866.2	3638.4	3553.2
37.5°	3594.5	3085.1	2693.2	2651.4	2853.6	3172.3	3652.5	4154.5	3886.5	3779.4
40°	3711.0	3233.5	2927.8	2910.1	3136.8	3342.7	3807.6	4462.3	4169.7	4048.0
42.5°	3829.6	3404.3	3215.2	3244.4	3457.6	3581.4	3967.0	4698.9	4401.7	4267.4
45°	3937.2	3622.7	3588.7	3733.4	3831.7	3814.4	4085.1	4865.6	4603.9	4475.3
47.5°	4073.0	3940.9	4040.6	4263.7	4266.3	4067.8	4174.4	5002.0	4777.8	4649.3
50°	4225.1	4316.5	4624.2	4851.5	4790.4	4317.0	4278.9	5163.4	4957.6	4854.6
52.5°	4401.1	4737.1	5163.4	5415.7	5273.1	4588.7	4452.9	5337.9	5242.8	5144.1
55°	4605.9	5023.9	5701.0	5902.1	5758.5	4926.2	4717.2	5574.6	5565.2	5497.8
57.5°	4837.4	5326.9	6012.4	6284.6	6156.6	5322.2	5086.6	5797.7	5762.1	5724.5
59°	5020.2	5482.6	6149.8	6431.9	6354.6	5599.6	5334.8	5936.6	5807.6	5751.2
60°	5131.0	5588.2	6200.5	6451.8	6434.0	5764.7	5492.0	6004.5	5807.1	5728.7
62.5°	5459.6	5772.6	6181.1	6363.5	6433.0	6081.4	5953.3	6079.3	5699.4	5584.5
65°	5576.7	5711.5	5860.9	5838.4	5898.0	6065.2	6248.0	5997.2	5469.6	5306.0
67.5°	5348.9	5041.1	5093.9	4944.0	4914.7	5392.2	6128.4	5596.0	5019.7	4819.6
70°	4508.8	3862.0	3835.3	3904.3	3715.2	4365.6	5503.0	4823.3	4277.3	4050.6
72.5°	3549.0	2729.3	2504.6	2758.6	2752.8	3330.6	4571.5	3422.6	2889.7	2870.4
75°	2790.9	1900.2	1667.7	1708.9	1788.4	2411.1	3641.0	2173.4	1779.5	1621.7
77.5°	1873.5	1346.4	1256.0	1205.3	1291.0	1548.0	2303.5	1178.7	997.9	945.1
80°	1079.9	978.0	1110.7	1008.3	1054.3	975.4	1145.7	540.7	448.8	485.9
82.5°	702.7	556.9	593.5	441.0	602.9	608.1	367.8	159.9	135.3	143.7
85°	439.4	261.2	146.8	104.5	207.9	382.4	114.9	9.9	11.5	9.9
87.5°	113.9	43.4	18.3	27.2	33.4	29.8	26.6	1.6	0.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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