

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: P527897

Luminaire Tested: **GALN-SA3A-722-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5548 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

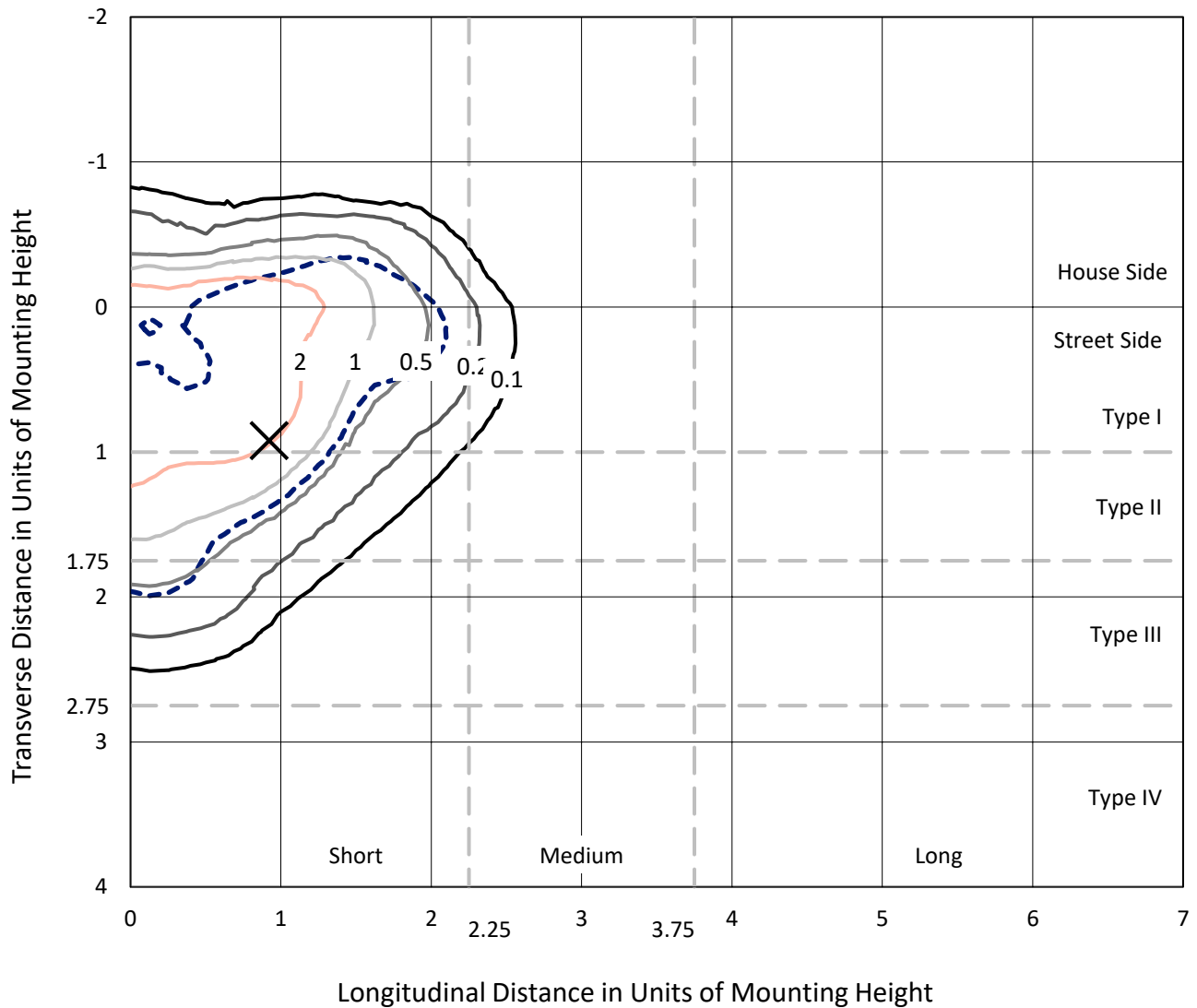
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

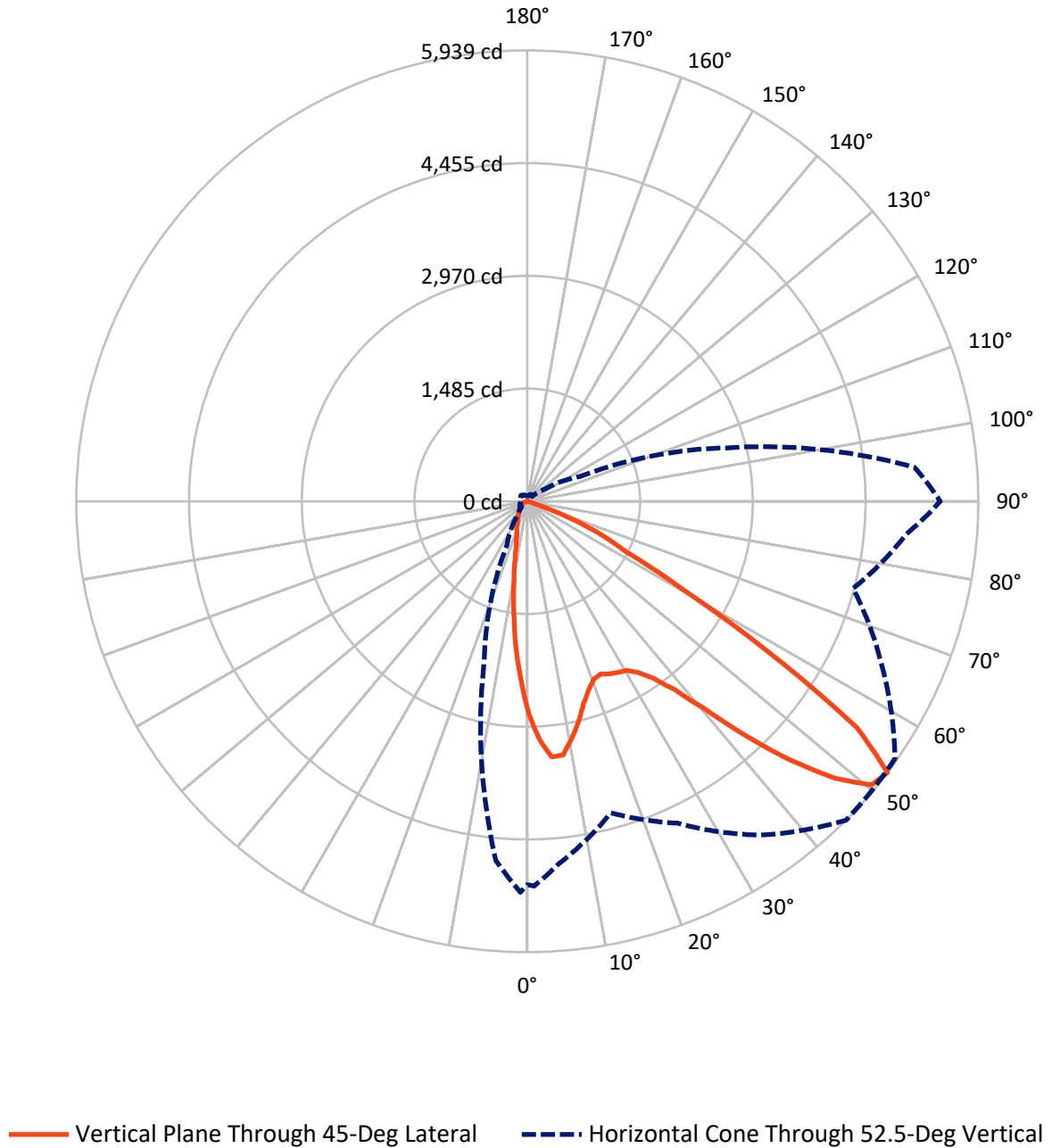
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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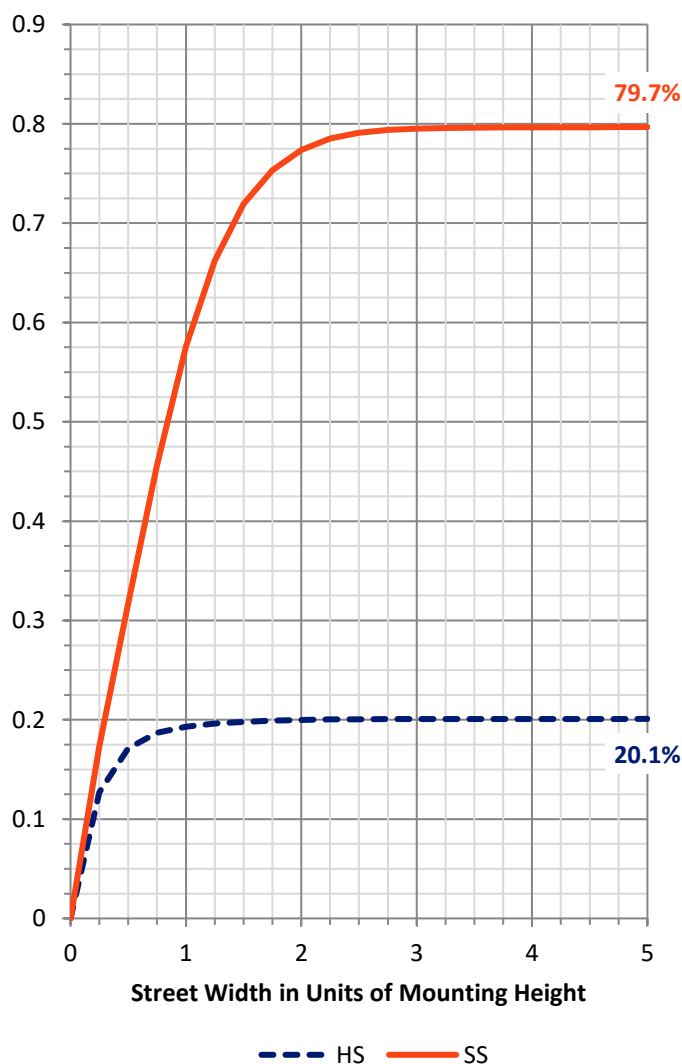
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.0	0.0	1126.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4422.0	0.0	4422.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	5548.0	0.0	5548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	3.7
10°-20°	404.8	7.3
20°-30°	616.0	11.1
30°-40°	920.7	16.6
40°-50°	1311.1	23.6
50°-60°	1409.4	25.4
60°-70°	624.5	11.3
70°-80°	50.5	0.9
80°-90°	5.9	0.1
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°	5548.0	100.0
0°-180°	5548.0	100.0

Coefficient of Utilization



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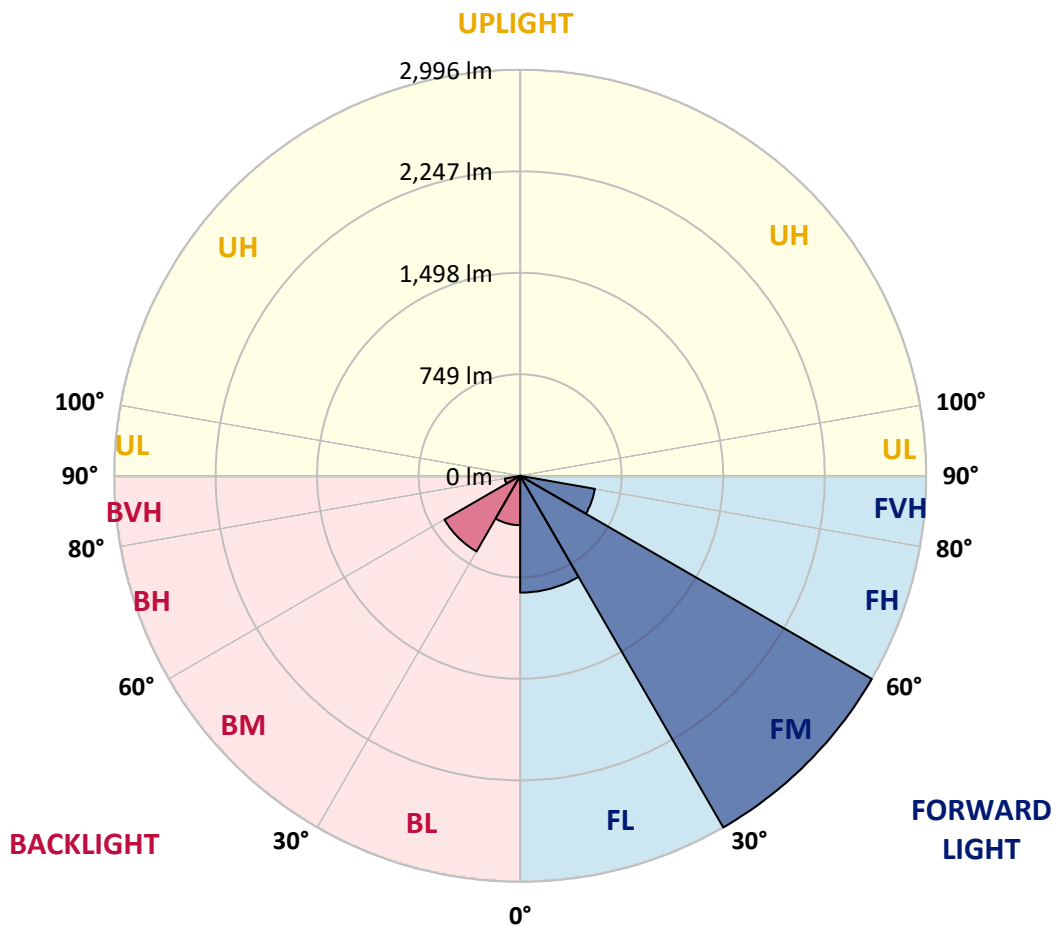
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.7	15.5			
FM (30°-60°)	2996.1	54.0			
FH (60°-80°)	559.9	10.1			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	364.2	6.6	B1/500		
BM (30°-60°)	645.1	11.6	B1/1000		
BH (60°-80°)	115.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.5	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2976.8	2985.5	3033.5	3093.5	3125.2	3197.2	3147.0	3160.1	3132.8	3036.8	2961.5
5°	2886.2	2885.1	2946.2	3094.6	3235.4	3378.3	3382.7	3306.3	3172.1	3024.8	2814.2
7.5°	2613.4	2656.0	2719.3	2956.0	3216.8	3323.8	3375.1	3285.6	3079.3	2868.7	2640.7
10°	2407.2	2429.0	2535.9	2821.8	3012.8	3155.7	3187.4	3136.1	2977.9	2714.9	2459.5
12.5°	2288.2	2299.1	2424.6	2664.7	2866.6	2972.4	2987.7	3011.7	2898.2	2651.6	2345.0
15°	2289.3	2298.1	2467.2	2668.0	2747.6	2719.3	2769.4	2768.4	2817.5	2639.6	2441.0
17.5°	2454.1	2463.9	2616.7	2716.0	2681.1	2614.5	2611.2	2661.4	2765.1	2789.1	2586.1
20°	2737.8	2760.7	2873.1	2867.7	2671.2	2537.0	2499.9	2538.1	2779.3	2915.7	2878.6
22.5°	3119.7	3151.4	3229.9	3079.3	2716.0	2484.6	2472.6	2546.8	2873.1	3198.3	3210.3
25°	3562.7	3616.2	3654.4	3461.3	2875.3	2575.2	2518.5	2646.1	2999.7	3504.9	3632.6
27.5°	3856.3	3911.9	3903.2	3627.1	2982.2	2599.2	2551.2	2670.1	3109.9	3578.0	3853.0
30°	4085.4	4119.3	4180.4	3716.6	3089.2	2666.9	2585.0	2771.6	3145.9	3704.6	4119.3
32.5°	4352.8	4375.7	4380.0	3874.8	3253.9	2752.0	2689.8	2898.2	3305.2	3825.7	4354.9
35°	4622.3	4656.1	4585.2	4070.1	3355.4	2910.2	2864.4	3117.5	3432.9	3951.2	4614.7
37.5°	4914.7	4932.2	4768.5	4150.9	3500.5	3167.7	3142.6	3354.3	3654.4	4178.2	4902.7
40°	5160.2	5176.6	4963.8	4250.2	3653.3	3527.8	3592.2	3806.1	3955.6	4325.5	5046.8
42.5°	5296.6	5334.8	5029.3	4195.6	3959.9	3935.9	4221.8	4297.1	4304.8	4367.0	5175.5
45°	5333.7	5316.3	4921.3	4240.4	4228.4	4607.0	4866.7	4966.0	4651.8	4443.3	5208.3
47.5°	5162.4	5185.3	4762.0	4201.1	4580.8	5115.5	5451.6	5636.0	4910.4	4376.8	5127.5
50°	5023.8	4994.4	4710.7	4172.7	4675.8	5355.6	5873.9	5915.4	5148.2	4458.6	5039.1
52.5°	5051.1	5069.7	4792.5	4248.0	4677.9	5369.8	5939.4	5911.0	5155.9	4440.1	5007.5
55°	5109.0	5027.1	4757.6	4082.2	4364.8	4973.7	5271.6	5227.9	4758.7	4242.6	4930.0
57.5°	4408.4	4535.0	4374.6	3644.6	3582.4	3747.2	3741.7	3875.9	3549.6	3651.1	4488.1
60°	3578.0	3599.8	3659.9	3117.5	2479.2	2422.4	2343.9	2258.8	2388.6	3121.9	4082.2
62.5°	3147.0	3120.8	3334.7	2836.0	1750.3	1465.5	1452.4	1504.8	1843.0	2977.9	3829.0
65°	2287.1	2319.9	2474.8	2200.9	1313.8	1118.5	1098.8	1253.8	1491.7	2386.4	2922.2
67.5°	1396.7	1460.0	1474.2	1357.4	891.5	708.2	679.8	820.6	1077.0	1544.0	1713.2
70°	644.9	721.3	793.3	740.9	516.1	291.3	275.0	344.8	543.4	888.2	909.0
72.5°	195.3	196.4	275.0	287.0	167.0	65.5	57.8	76.4	184.4	293.5	308.8
75°	14.2	15.3	37.1	42.6	31.6	16.4	17.5	20.7	39.3	65.5	49.1
77.5°	1.1	1.1	1.1	5.5	9.8	10.9	14.2	16.4	20.7	24.0	21.8
80°	1.1	0.0	1.1	4.4	7.6	10.9	13.1	15.3	16.4	18.6	16.4
82.5°	0.0	0.0	0.0	3.3	7.6	10.9	12.0	16.4	18.6	21.8	18.6
85°	0.0	0.0	0.0	3.3	7.6	12.0	10.9	5.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2974.6	2932.0	2834.9	2785.8	2670.1	2653.8	2540.3	2521.7	2483.6	2462.8	2412.6
5°	2721.4	2670.1	2511.9	2378.8	2223.9	2115.8	2032.9	1957.6	1914.0	1873.6	1892.1
7.5°	2515.2	2365.7	2190.0	1967.4	1788.5	1672.8	1546.2	1442.6	1381.4	1340.0	1349.8
10°	2299.1	2202.0	1957.6	1707.7	1491.7	1409.8	1310.5	1230.9	1144.7	1070.5	1035.5
12.5°	2231.5	2087.5	1780.8	1526.6	1362.9	1283.2	1169.8	1078.1	967.9	877.3	845.7
15°	2243.5	2104.9	1732.8	1461.1	1268.0	1130.5	995.2	881.7	760.6	697.3	664.5
17.5°	2438.8	2198.8	1764.5	1392.4	1135.9	945.0	778.0	634.0	543.4	477.9	463.8
20°	2678.9	2401.7	1832.1	1342.2	1027.9	751.8	568.5	444.1	368.8	357.9	354.6
22.5°	3030.2	2733.4	1977.2	1308.3	895.9	586.0	389.6	323.0	302.3	300.1	301.2
25°	3521.3	3149.2	2135.5	1280.0	796.6	451.8	318.6	273.9	267.3	264.1	269.5
27.5°	3734.1	3400.2	2219.5	1218.9	706.0	407.0	314.3	271.7	253.2	247.7	251.0
30°	3997.0	3567.1	2351.5	1114.1	572.9	335.0	293.5	295.7	287.0	259.7	251.0
32.5°	4346.2	3775.5	2418.1	1039.9	511.8	277.2	215.0	197.5	220.4	224.8	232.4
35°	4569.9	3987.2	2451.9	996.3	480.1	236.8	182.2	165.9	160.4	161.5	165.9
37.5°	4985.7	4273.1	2494.5	950.4	456.1	206.2	164.8	149.5	141.9	141.9	146.2
40°	5234.4	4500.1	2552.3	925.3	432.1	187.7	149.5	136.4	129.9	129.9	132.0
42.5°	5296.6	4612.5	2532.7	916.6	404.8	183.3	136.4	126.6	118.9	117.8	116.8
45°	5407.9	4783.8	2535.9	906.8	376.5	167.0	128.8	117.8	106.9	105.8	104.8
47.5°	5530.2	4907.1	2542.5	868.6	349.2	139.7	134.2	109.1	96.0	93.8	93.8
50°	5425.4	5005.3	2599.2	830.4	314.3	113.5	132.0	102.6	85.1	81.8	82.9
52.5°	5438.5	5121.0	2719.3	776.9	270.6	90.6	106.9	97.1	77.5	72.0	73.1
55°	5229.0	4998.8	2735.6	720.2	211.7	69.8	81.8	85.1	65.5	63.3	63.3
57.5°	4501.2	4232.7	2413.7	583.8	139.7	57.8	58.9	74.2	56.7	54.6	55.7
60°	3851.9	3398.0	1942.3	385.2	87.3	45.8	42.6	75.3	50.2	49.1	52.4
62.5°	3511.5	2792.4	1473.1	239.0	60.0	34.9	29.5	61.1	43.6	43.6	48.0
65°	2537.0	1875.8	856.6	125.5	42.6	27.3	21.8	34.9	36.0	37.1	39.3
67.5°	1571.3	947.2	361.2	61.1	28.4	18.6	14.2	21.8	24.0	24.0	26.2
70°	775.8	377.6	120.0	34.9	21.8	15.3	9.8	12.0	12.0	10.9	12.0
72.5°	240.1	113.5	30.6	21.8	15.3	9.8	5.5	4.4	2.2	0.0	1.1
75°	27.3	21.8	19.6	15.3	9.8	4.4	1.1	0.0	0.0	0.0	0.0
77.5°	16.4	18.6	18.6	15.3	9.8	3.3	0.0	0.0	0.0	0.0	0.0
80°	13.1	14.2	15.3	14.2	8.7	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	18.6	20.7	18.6	12.0	5.5	2.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.3	1.1	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°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2391.9	2367.9	2401.7	2351.5	2350.4	2351.5	2337.3	2324.2	2345.0	2400.6	2406.1
5°	1825.6	1876.9	1893.2	1946.7	1917.2	1873.6	1882.3	1852.8	1924.9	1956.5	1931.4
7.5°	1329.1	1325.8	1436.0	1442.6	1456.7	1457.8	1455.7	1397.8	1338.9	1352.0	1391.3
10°	1031.2	975.5	1029.0	1023.5	1058.5	1048.6	1062.8	1000.6	1021.4	1021.4	1046.5
12.5°	840.2	781.3	771.5	757.3	771.5	776.9	782.4	770.4	805.3	821.7	839.1
15°	641.6	608.9	600.2	572.9	577.2	592.5	605.6	611.1	600.2	625.3	627.4
17.5°	465.9	464.8	470.3	469.2	464.8	461.6	460.5	446.3	441.9	444.1	452.8
20°	353.5	362.3	380.8	399.4	409.2	397.2	380.8	356.8	347.0	349.2	350.3
22.5°	302.3	315.4	340.5	361.2	371.0	349.2	319.7	299.0	294.6	293.5	292.4
25°	273.9	289.2	307.7	314.3	313.2	300.1	278.3	269.5	267.3	265.2	255.3
27.5°	258.6	264.1	267.3	275.0	278.3	269.5	264.1	251.0	248.8	248.8	242.2
30°	249.9	246.6	251.0	245.5	249.9	243.3	244.4	244.4	239.0	241.2	241.2
32.5°	232.4	233.5	233.5	222.6	225.9	218.2	225.9	232.4	233.5	234.6	243.3
35°	170.2	189.9	199.7	199.7	203.0	197.5	196.4	188.8	179.0	169.1	164.8
37.5°	149.5	157.1	170.2	177.9	183.3	179.0	169.1	157.1	151.7	147.3	142.9
40°	133.1	139.7	148.4	157.1	168.0	162.6	147.3	141.9	135.3	135.3	130.9
42.5°	120.0	123.3	128.8	141.9	153.9	142.9	132.0	127.7	124.4	123.3	122.2
45°	108.0	109.1	114.6	125.5	139.7	128.8	117.8	112.4	113.5	114.6	113.5
47.5°	97.1	99.3	102.6	115.7	124.4	118.9	106.9	103.7	103.7	103.7	104.8
50°	84.0	89.5	96.0	106.9	113.5	110.2	100.4	96.0	93.8	93.8	94.9
52.5°	75.3	79.7	88.4	101.5	110.2	104.8	94.9	88.4	84.0	82.9	85.1
55°	65.5	73.1	87.3	97.1	109.1	103.7	92.8	85.1	77.5	76.4	76.4
57.5°	58.9	70.9	84.0	96.0	105.8	101.5	92.8	82.9	73.1	72.0	72.0
60°	55.7	68.7	81.8	92.8	105.8	99.3	91.7	80.7	69.8	69.8	68.7
62.5°	52.4	64.4	77.5	88.4	101.5	96.0	88.4	77.5	66.6	66.6	64.4
65°	43.6	55.7	64.4	74.2	88.4	82.9	75.3	67.7	58.9	56.7	57.8
67.5°	30.6	38.2	46.9	56.7	65.5	63.3	60.0	54.6	46.9	45.8	44.7
70°	15.3	20.7	28.4	38.2	45.8	43.6	41.5	37.1	32.7	31.6	31.6
72.5°	2.2	6.5	12.0	17.5	24.0	25.1	24.0	22.9	21.8	20.7	21.8
75°	0.0	0.0	0.0	4.4	9.8	12.0	14.2	16.4	16.4	14.2	17.5
77.5°	0.0	0.0	0.0	0.0	1.1	5.5	10.9	14.2	17.5	15.3	20.7
80°	0.0	0.0	0.0	0.0	1.1	6.5	10.9	15.3	17.5	15.3	21.8
82.5°	0.0	0.0	0.0	0.0	1.1	7.6	10.9	14.2	16.4	15.3	19.6
85°	0.0	0.0	0.0	0.0	3.3	6.5	4.4	2.2	1.1	1.1	3.3
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°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2436.6	2514.1	2597.0	2628.7	2726.9	2801.1	2851.3	2959.3	2975.7	2976.8
5°	1957.6	1996.9	2138.7	2205.3	2351.5	2465.0	2586.1	2760.7	2877.5	2886.2
7.5°	1391.3	1500.4	1560.4	1733.9	1914.0	2091.8	2271.9	2474.8	2610.1	2613.4
10°	1119.6	1190.5	1297.4	1427.3	1579.0	1760.1	2000.2	2235.9	2373.3	2407.2
12.5°	901.3	1025.7	1147.9	1282.2	1397.8	1534.2	1792.8	2107.1	2220.6	2288.2
15°	694.0	807.5	951.5	1108.7	1239.6	1421.8	1716.4	2075.4	2266.4	2289.3
17.5°	511.8	613.3	746.4	894.8	1091.2	1349.8	1729.5	2235.9	2415.9	2454.1
20°	367.7	426.7	531.4	703.8	953.7	1265.8	1742.6	2398.4	2672.3	2737.8
22.5°	291.3	315.4	384.1	536.9	799.8	1177.4	1835.4	2709.4	3024.8	3119.7
25°	253.2	266.3	299.0	423.4	702.7	1168.7	1983.8	3082.6	3494.0	3562.7
27.5°	244.4	246.6	275.0	388.5	650.4	1110.8	2040.5	3347.8	3786.4	3856.3
30°	257.5	292.4	294.6	328.4	553.2	996.3	2070.0	3604.2	4034.1	4085.4
32.5°	222.6	211.7	219.3	254.2	486.7	929.7	2125.6	3827.9	4316.8	4352.8
35°	154.9	162.6	180.0	220.4	425.6	859.9	2139.8	4074.5	4585.2	4622.3
37.5°	142.9	147.3	161.5	187.7	374.3	820.6	2120.2	4254.6	4863.4	4914.7
40°	133.1	138.6	146.2	170.2	336.1	776.9	2092.9	4417.1	5033.7	5160.2
42.5°	125.5	129.9	136.4	162.6	303.4	733.3	2054.7	4646.3	5186.4	5296.6
45°	116.8	123.3	130.9	158.2	284.8	703.8	2026.3	4632.1	5274.8	5333.7
47.5°	108.0	118.9	127.7	147.3	279.3	689.6	2038.3	4578.6	5202.8	5162.4
50°	99.3	113.5	128.8	122.2	266.3	661.3	2052.5	4651.8	5031.5	5023.8
52.5°	91.7	108.0	120.0	100.4	236.8	634.0	2190.0	4747.8	5152.6	5051.1
55°	80.7	97.1	96.0	80.7	192.0	613.3	2298.1	4750.0	5070.8	5109.0
57.5°	73.1	86.2	75.3	67.7	141.9	512.9	2122.4	3982.9	4340.8	4408.4
60°	67.7	84.0	56.7	53.5	92.8	369.9	1852.8	3084.8	3450.4	3578.0
62.5°	62.2	79.7	44.7	43.6	64.4	263.0	1523.3	2581.8	2973.5	3147.0
65°	54.6	56.7	36.0	33.8	45.8	141.9	927.5	1777.6	2222.8	2287.1
67.5°	44.7	43.6	29.5	27.3	30.6	68.7	409.2	890.4	1288.7	1396.7
70°	36.0	36.0	25.1	21.8	21.8	31.6	106.9	354.6	582.7	644.9
72.5°	26.2	27.3	19.6	17.5	16.4	15.3	17.5	70.9	152.8	195.3
75°	22.9	24.0	19.6	15.3	12.0	9.8	7.6	6.5	8.7	14.2
77.5°	25.1	25.1	20.7	14.2	10.9	7.6	4.4	2.2	2.2	1.1
80°	31.6	32.7	27.3	18.6	13.1	8.7	5.5	2.2	1.1	1.1
82.5°	33.8	37.1	30.6	22.9	16.4	9.8	5.5	1.1	0.0	0.0
85°	8.7	14.2	24.0	20.7	16.4	9.8	5.5	1.1	0.0	0.0
87.5°	0.0	1.1	3.3	3.3	4.4	4.4	3.3	1.1	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

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