

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: P451739

Luminaire Tested: **GALN-SA2C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451739
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-SA2C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 7464 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

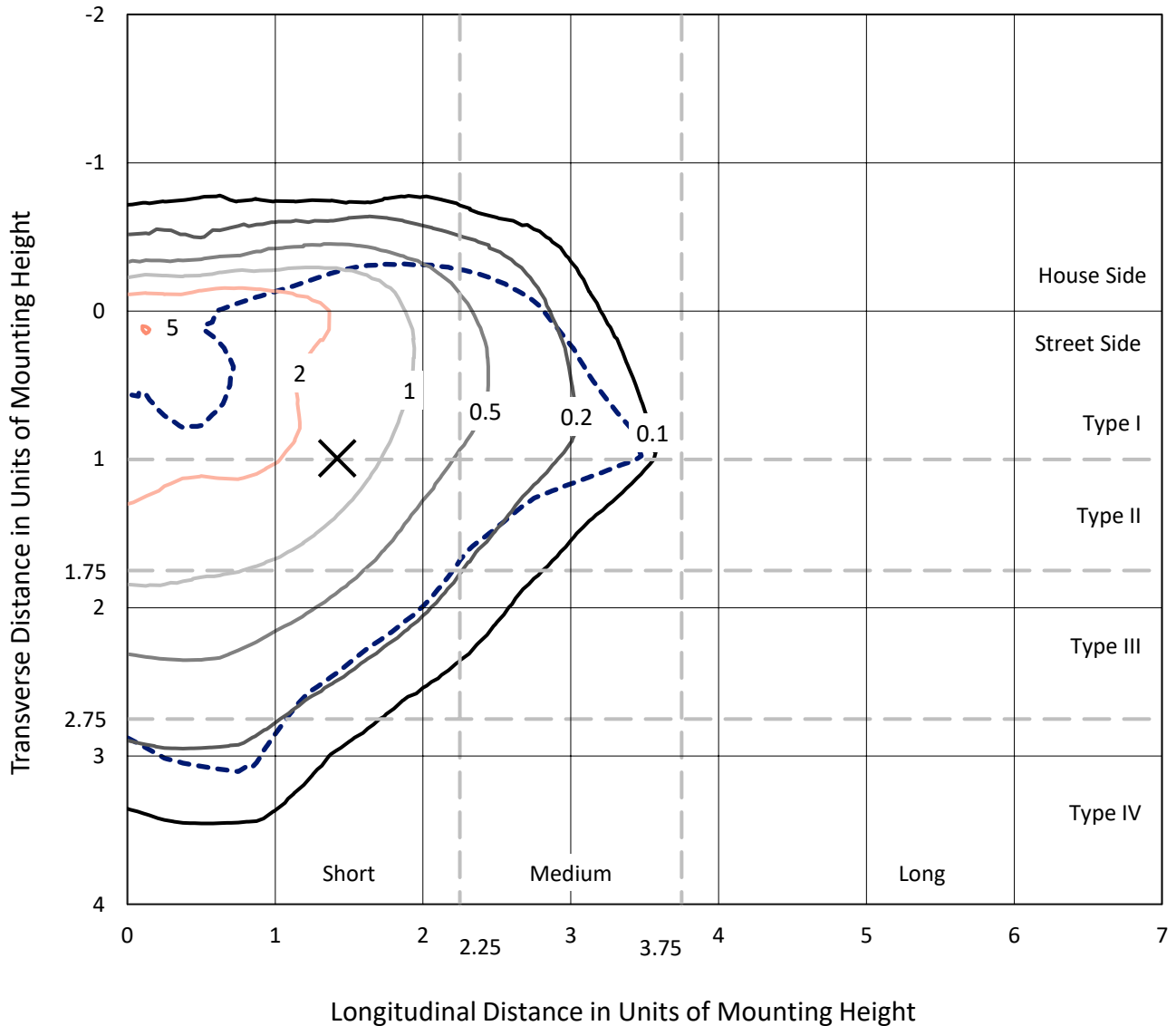
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

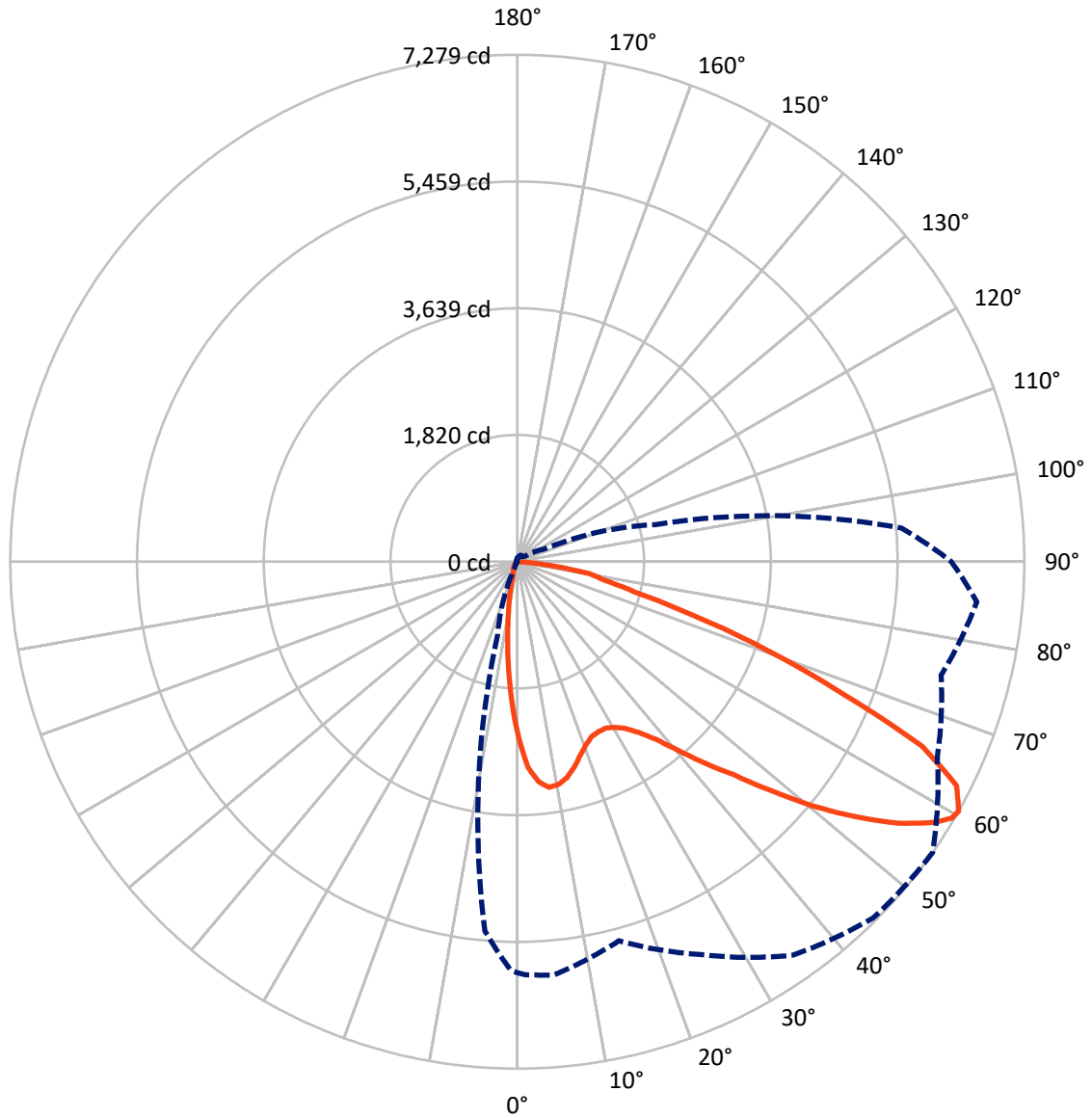
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1107.7	0.0	1107.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6356.3	0.0	6356.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	7464.0	0.0	7464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	2.5
10°-20°	368.5	4.9
20°-30°	545.5	7.3
30°-40°	813.1	10.9
40°-50°	1190.8	16.0
50°-60°	1719.2	23.0
60°-70°	1808.5	24.2
70°-80°	744.0	10.0
80°-90°	87.1	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°	7464.0	100.0
0°-180°	7464.0	100.0

Coefficient of Utilization



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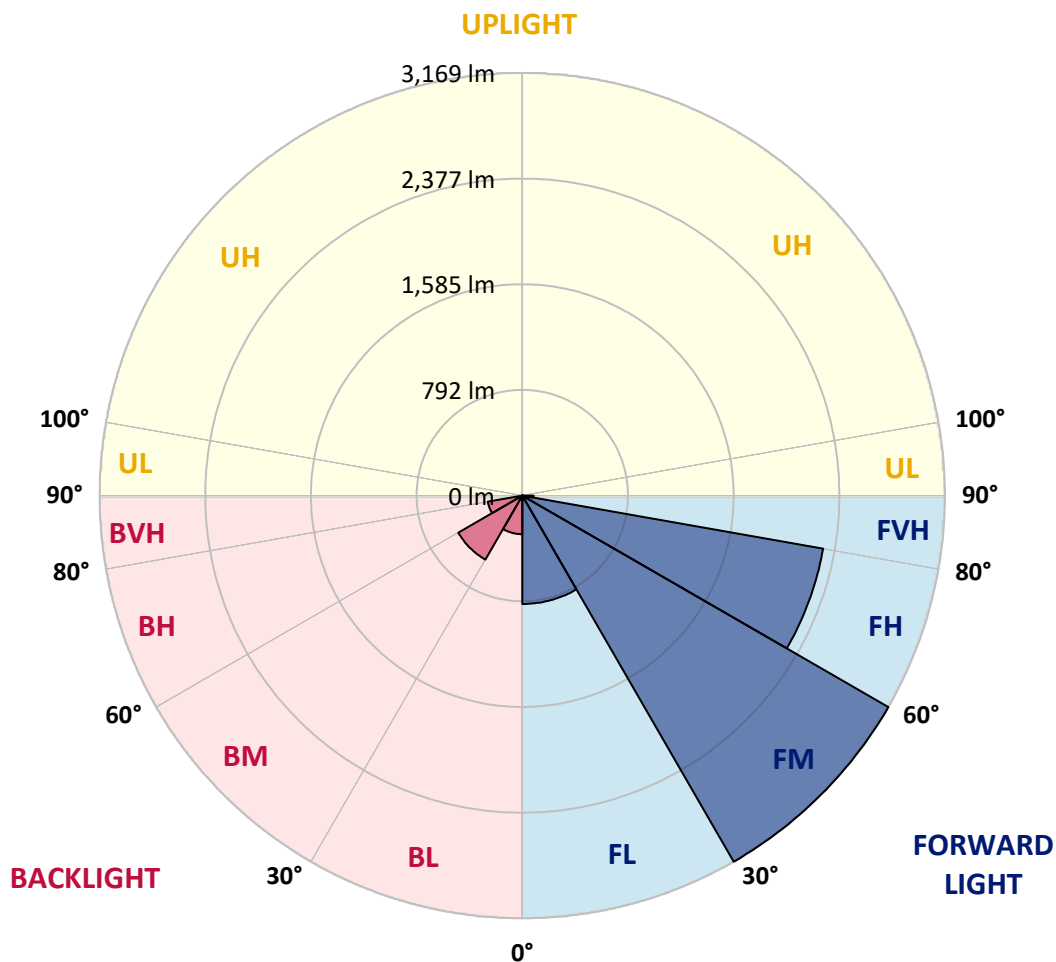
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.2	10.9			
FM	(30°-60°)	3169.2	42.5			
FH	(60°-80°)	2290.3	30.7			G2/5000
FVH	(80°-90°)	84.6	1.1			G1/100
BL	(0°-30°)	289.0	3.9	B1/500		
BM	(30°-60°)	554.0	7.4	B1/1000		
BH	(60°-80°)	262.2	3.5	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3
2.5°	2761.1	2756.5	2797.3	2864.0	2931.2	2966.2	2959.3	2956.5	2900.7	2859.9	2774.3
5°	2755.4	2778.9	2851.9	3032.3	3169.0	3235.1	3254.6	3172.5	3063.9	2906.5	2712.3
7.5°	2590.5	2619.8	2738.7	3020.8	3263.8	3407.4	3402.3	3270.7	3046.7	2803.1	2526.1
10°	2386.0	2420.4	2560.0	2902.4	3217.9	3407.4	3417.8	3251.2	2972.5	2660.0	2368.7
12.5°	2241.8	2282.5	2437.1	2792.1	3099.5	3286.2	3298.3	3177.6	2916.8	2604.8	2283.1
15°	2192.9	2231.4	2388.3	2736.4	2973.7	3074.2	3071.4	3058.7	2895.0	2618.1	2287.7
17.5°	2276.8	2308.4	2485.4	2761.7	2855.9	2845.6	2860.5	2921.4	2899.6	2728.9	2432.5
20°	2493.4	2525.6	2715.7	2839.3	2765.7	2700.2	2707.1	2808.8	2942.1	2937.5	2658.9
22.5°	2791.6	2846.1	3018.5	2989.8	2753.6	2610.0	2595.7	2727.8	3014.5	3177.6	2964.5
25°	3169.0	3224.2	3358.6	3229.9	2812.8	2588.8	2575.5	2703.1	3102.4	3412.0	3308.6
27.5°	3486.2	3528.1	3662.0	3463.7	2900.1	2598.0	2576.1	2706.5	3173.6	3611.4	3598.8
30°	3740.1	3771.1	3849.8	3572.9	2975.4	2638.2	2612.9	2757.1	3205.2	3708.5	3833.7
32.5°	3944.6	3996.9	4021.6	3689.5	3083.4	2714.0	2670.9	2854.2	3282.2	3828.6	4080.2
35°	4178.4	4238.8	4207.2	3801.0	3225.9	2832.4	2779.5	3011.6	3398.8	3939.4	4366.3
37.5°	4474.9	4544.4	4420.9	3918.2	3376.4	3010.5	2985.8	3232.8	3575.8	4098.0	4673.1
40°	4781.7	4821.9	4628.3	4060.7	3561.4	3269.6	3293.1	3561.4	3807.3	4288.2	4999.4
42.5°	5021.3	5059.2	4841.4	4180.2	3750.4	3576.9	3675.2	3957.8	4072.7	4482.9	5243.0
45°	5204.5	5236.7	4989.1	4310.6	4005.5	4022.2	4207.7	4366.3	4338.7	4601.9	5430.9
47.5°	5347.0	5374.6	5102.8	4450.8	4387.6	4566.8	4850.6	4917.8	4614.5	4730.6	5600.9
50°	5405.6	5413.7	5138.5	4629.4	4821.3	5260.8	5556.7	5515.9	4930.5	4873.6	5781.9
52.5°	5482.0	5480.3	5240.1	4799.5	5229.2	5881.3	6176.6	6084.1	5287.8	5087.9	5985.3
55°	5682.5	5684.8	5457.9	5040.8	5576.8	6382.3	6698.3	6631.0	5664.7	5449.8	6222.6
57.5°	5926.1	5934.7	5767.6	5322.9	5908.9	6745.4	7087.8	7061.9	6174.3	5852.6	6446.6
59°	5957.7	5975.0	5914.1	5521.7	6105.9	6856.8	7221.1	7246.4	6447.2	6118.0	6567.9
60°	5900.3	5929.0	5956.6	5634.3	6221.4	6897.0	7229.1	7278.5	6652.3	6298.4	6623.0
62.5°	5649.8	5695.2	5833.6	5980.7	6365.6	6771.8	6972.3	7075.7	6906.2	6772.4	6628.2
65°	5321.7	5345.3	5545.2	6042.2	6085.8	6186.9	6249.0	6381.7	6601.2	6955.1	6390.9
67.5°	4784.0	4853.5	5098.2	5685.4	5260.3	5140.8	5125.2	4993.1	5563.0	6519.6	5806.0
70°	3952.1	3983.1	4284.7	4661.0	3969.9	3786.1	3859.6	3810.2	4312.3	5612.4	4673.1
72.5°	2988.6	3058.7	3353.4	3715.4	2701.4	2462.9	2665.7	2647.4	3239.1	4510.5	3210.4
75°	2126.3	2171.7	2547.4	2907.6	1891.9	1602.9	1675.9	1744.2	2261.3	3561.4	1897.0
77.5°	1461.0	1500.1	1782.1	1922.9	1380.0	1322.0	1209.4	1275.4	1481.7	2113.1	1032.4
80°	881.3	879.6	1065.2	1099.6	961.2	1116.3	936.5	1051.4	895.7	904.3	399.9
82.5°	572.2	566.5	651.5	710.1	534.9	562.4	377.5	544.1	583.7	252.2	126.4
85°	256.2	267.1	313.1	413.1	234.4	124.7	77.0	167.2	248.8	127.0	0.0
87.5°	26.4	20.7	55.2	100.5	32.2	3.4	11.5	5.7	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°	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3
2.5°	2734.7	2701.4	2602.0	2508.9	2429.0	2331.4	2268.2	2168.8	2108.5	2090.1	2093.0
5°	2625.0	2529.0	2340.0	2188.9	2020.6	1924.6	1778.7	1638.5	1562.7	1534.5	1521.9
7.5°	2395.2	2292.3	2064.2	1827.0	1646.6	1478.2	1369.6	1246.1	1161.7	1092.2	1080.1
10°	2224.5	2089.5	1806.8	1551.8	1409.3	1282.9	1174.3	1050.8	951.4	872.1	850.3
12.5°	2122.3	1971.2	1655.8	1442.0	1307.0	1177.2	1035.8	892.8	791.1	705.5	665.9
15°	2103.9	1928.6	1613.2	1363.3	1196.7	1039.9	852.0	697.5	592.9	511.9	487.2
17.5°	2214.8	2005.1	1606.9	1281.2	1052.5	830.2	634.8	506.7	388.9	343.6	325.7
20°	2412.4	2140.1	1606.3	1185.8	904.3	639.4	445.8	330.3	282.7	260.8	250.5
22.5°	2681.8	2323.9	1636.8	1103.6	750.3	471.7	318.3	263.1	235.6	217.7	213.7
25°	3011.0	2596.2	1711.5	1047.9	632.5	370.0	262.6	225.2	202.2	194.2	190.7
27.5°	3303.5	2857.1	1793.6	990.5	548.1	327.5	243.6	206.3	187.9	181.5	176.4
30°	3555.7	3093.8	1833.3	914.6	480.3	299.9	247.0	220.6	196.5	177.5	168.9
32.5°	3765.9	3275.3	1859.1	845.7	422.8	245.3	195.3	170.6	159.7	152.8	147.1
35°	4029.1	3471.8	1843.6	806.6	393.5	223.5	178.1	147.1	128.7	114.9	109.2
37.5°	4304.8	3668.3	1816.6	774.4	380.3	207.4	169.5	139.6	119.5	105.1	97.7
40°	4590.4	3850.4	1785.0	744.6	368.3	197.1	164.3	133.3	113.2	97.7	89.6
42.5°	4851.8	4027.9	1772.4	725.0	348.7	198.8	160.3	130.4	106.9	90.8	83.9
45°	5063.2	4196.3	1789.6	714.7	327.5	195.9	161.4	127.0	101.7	86.2	79.3
47.5°	5289.0	4434.1	1845.3	704.4	306.8	182.1	170.1	126.4	99.4	83.3	75.8
50°	5551.5	4738.6	1972.9	679.1	281.5	167.2	181.0	125.8	96.5	79.9	72.4
52.5°	5901.4	5084.5	2104.4	634.8	244.7	152.8	172.9	124.1	90.8	75.8	68.4
55°	6215.7	5448.7	2215.9	582.6	198.2	132.1	155.7	116.6	81.0	68.9	62.0
57.5°	6345.5	5654.4	2212.5	510.2	158.6	116.1	128.1	106.9	70.7	60.9	55.2
59°	6297.8	5628.5	2138.3	456.7	144.8	107.4	106.3	105.7	66.1	55.2	50.6
60°	6230.6	5534.3	2058.5	430.3	136.2	101.7	97.7	104.6	62.0	51.7	47.1
62.5°	5973.2	5143.6	1793.6	385.5	124.7	86.2	78.1	88.5	55.2	44.8	40.8
65°	5600.4	4543.3	1518.4	372.9	121.2	71.2	64.9	63.2	47.1	37.9	34.5
67.5°	4873.0	3844.7	1230.0	364.2	122.4	59.7	56.9	47.7	39.1	31.6	29.3
70°	3901.5	2997.8	1007.1	354.5	123.5	48.8	47.7	37.9	31.6	26.4	24.1
72.5°	2370.4	1777.0	792.8	307.9	120.1	39.1	42.5	28.7	23.0	19.0	17.8
75°	1465.6	1216.2	491.8	239.6	79.3	28.7	29.9	17.8	15.5	12.1	12.1
77.5°	849.1	768.1	175.8	86.2	35.0	17.2	13.2	9.2	8.6	5.2	5.2
80°	352.2	282.1	60.9	29.3	19.0	8.0	2.9	0.6	0.0	0.0	0.0
82.5°	102.8	91.3	16.7	13.2	5.7	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°	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3
2.5°	2044.1	2025.2	2016.5	2045.8	2018.8	2053.3	2026.9	2038.4	2072.3	2087.2	2125.7
5°	1529.9	1510.4	1501.2	1545.4	1543.1	1565.0	1562.7	1582.8	1600.0	1561.5	1601.2
7.5°	1065.7	1052.5	1074.3	1108.8	1145.6	1133.5	1133.5	1106.5	1115.7	1110.0	1108.2
10°	810.6	765.3	753.8	752.6	766.4	769.3	753.8	716.4	730.2	734.2	758.4
12.5°	637.7	602.7	549.2	525.1	518.8	524.0	472.8	440.1	455.6	446.4	470.0
15°	457.3	428.6	397.0	370.0	362.5	352.2	296.4	257.4	252.8	254.5	258.5
17.5°	326.3	306.8	306.8	278.1	262.6	231.5	203.4	186.1	184.4	186.1	189.0
20°	240.7	230.4	229.2	221.8	204.5	183.8	164.3	160.9	159.7	162.6	163.7
22.5°	207.4	196.5	187.3	186.7	170.6	153.4	144.2	139.6	140.2	141.3	144.2
25°	185.6	174.1	164.3	158.6	147.1	135.0	126.4	124.1	124.1	125.8	126.4
27.5°	170.1	155.7	147.1	139.0	128.7	118.4	110.9	109.2	108.0	109.2	112.0
30°	159.1	144.8	133.9	121.8	113.8	104.0	97.7	95.4	94.8	95.4	97.7
32.5°	136.2	127.5	118.9	108.0	98.2	91.9	85.0	81.0	81.0	82.2	84.5
35°	102.8	98.2	97.7	94.8	86.8	79.9	71.8	67.8	67.8	70.1	71.2
37.5°	90.8	82.2	81.0	79.9	76.4	67.2	59.7	56.3	55.7	57.5	59.7
40°	82.7	73.0	67.8	66.6	67.2	56.9	48.8	45.4	45.4	46.0	48.3
42.5°	76.4	64.9	55.7	54.6	56.9	47.7	39.6	36.2	36.2	36.2	39.1
45°	71.2	58.0	47.1	41.4	44.8	39.1	32.2	28.7	27.6	28.7	29.9
47.5°	67.8	52.9	41.4	33.3	33.3	31.0	25.9	21.8	20.7	21.3	23.0
50°	64.9	48.3	35.0	27.0	24.1	24.7	19.5	16.7	15.5	15.5	17.2
52.5°	60.3	43.7	30.4	23.0	18.4	16.7	14.4	12.1	11.5	12.1	13.2
55°	54.6	39.6	26.4	19.0	14.4	11.5	10.3	8.6	8.0	8.6	10.3
57.5°	48.3	33.3	21.3	14.9	9.8	7.5	6.9	5.7	4.6	5.2	6.3
59°	44.2	29.9	18.4	12.1	7.5	5.2	5.2	4.0	2.9	3.4	5.2
60°	42.5	27.6	15.5	10.3	6.3	4.0	4.0	2.9	1.7	2.3	4.0
62.5°	36.2	23.0	12.1	6.3	2.9	0.6	1.7	0.6	0.0	0.6	1.7
65°	30.4	18.4	8.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	25.3	13.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.1	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.4	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°	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3	2527.3
2.5°	2128.0	2210.2	2260.7	2356.1	2453.8	2529.0	2623.2	2707.7	2742.7	2761.1
5°	1641.4	1755.7	1852.8	1998.2	2133.2	2297.5	2464.1	2660.6	2735.8	2755.4
7.5°	1151.9	1268.5	1370.2	1538.6	1731.0	1951.1	2200.4	2449.7	2559.5	2590.5
10°	831.9	956.6	1080.7	1249.0	1428.8	1667.2	1926.9	2235.4	2361.8	2386.0
12.5°	525.1	659.0	860.6	1068.6	1258.8	1450.6	1722.4	2057.9	2197.5	2241.8
15°	304.5	404.5	556.7	827.9	1069.7	1323.7	1620.1	1991.3	2147.5	2192.9
17.5°	204.0	238.4	343.0	550.4	869.8	1206.5	1594.3	2045.8	2218.8	2276.8
20°	171.8	187.3	224.1	335.5	669.9	1101.9	1601.2	2194.1	2421.0	2493.4
22.5°	151.1	165.5	189.0	241.3	467.7	972.1	1633.9	2406.1	2699.1	2791.6
25°	133.3	147.7	168.3	199.9	314.3	822.1	1705.7	2716.3	3067.3	3169.0
27.5°	118.4	131.6	149.4	176.4	241.9	654.9	1769.5	3018.5	3403.4	3486.2
30°	104.6	115.5	132.7	153.4	201.1	505.0	1801.7	3282.8	3648.2	3740.1
32.5°	90.8	101.1	117.8	134.4	165.5	384.9	1779.3	3477.0	3886.0	3944.6
35°	77.6	88.5	102.3	117.8	143.1	310.8	1667.2	3695.3	4132.5	4178.4
37.5°	66.6	75.8	90.2	102.3	129.3	248.8	1531.7	3891.8	4408.8	4474.9
40°	56.3	65.5	79.9	90.8	118.9	195.9	1409.3	4110.1	4700.1	4781.7
42.5°	46.0	56.9	69.5	87.3	102.3	149.4	1261.1	4287.0	4919.0	5021.3
45°	36.8	48.8	62.6	86.8	89.0	113.8	1118.0	4424.9	5112.6	5204.5
47.5°	29.3	41.4	60.3	81.0	73.0	90.2	1036.4	4569.1	5273.5	5347.0
50°	23.6	34.5	63.2	71.2	60.9	76.4	1034.1	4730.0	5356.8	5405.6
52.5°	19.0	28.2	53.4	54.6	51.7	67.2	1096.2	4911.0	5441.8	5482.0
55°	16.1	23.6	35.0	40.2	46.5	60.9	1142.7	5189.6	5644.6	5682.5
57.5°	12.6	20.1	27.0	32.2	41.4	55.7	1149.0	5404.5	5901.4	5926.1
59°	10.9	17.2	24.1	28.7	37.9	52.3	1123.2	5417.7	5918.1	5957.7
60°	9.2	15.5	21.3	27.0	35.0	49.4	1095.0	5321.7	5856.0	5900.3
62.5°	6.9	12.1	15.5	21.8	28.7	42.5	961.7	4986.8	5618.8	5649.8
65°	4.6	8.6	11.5	16.1	22.4	36.8	783.6	4552.5	5252.2	5321.7
67.5°	2.9	6.3	9.2	12.1	18.4	31.0	558.4	3903.8	4739.2	4784.0
70°	1.7	4.0	6.9	9.8	14.4	24.7	331.5	3085.7	3942.9	3952.1
72.5°	1.1	2.9	4.6	6.9	11.5	22.4	160.9	2011.4	2878.9	2988.6
75°	0.6	1.7	2.9	5.2	9.2	18.4	77.0	1343.8	2094.7	2126.3
77.5°	0.0	0.6	1.7	3.4	6.9	14.4	44.8	882.5	1428.2	1461.0
80°	0.0	0.0	1.1	2.9	5.2	9.2	27.0	520.5	865.2	881.3
82.5°	0.0	0.0	0.6	2.3	3.4	6.9	13.8	228.7	566.5	572.2
85°	0.0	0.0	0.6	2.3	2.9	4.6	5.2	31.0	251.6	256.2
87.5°	0.0	0.0	0.6	2.9	2.9	2.9	2.9	1.7	21.3	26.4
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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