

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: P527845

Luminaire Tested: **GALN-SA2D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527845
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-SA2D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 6322 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

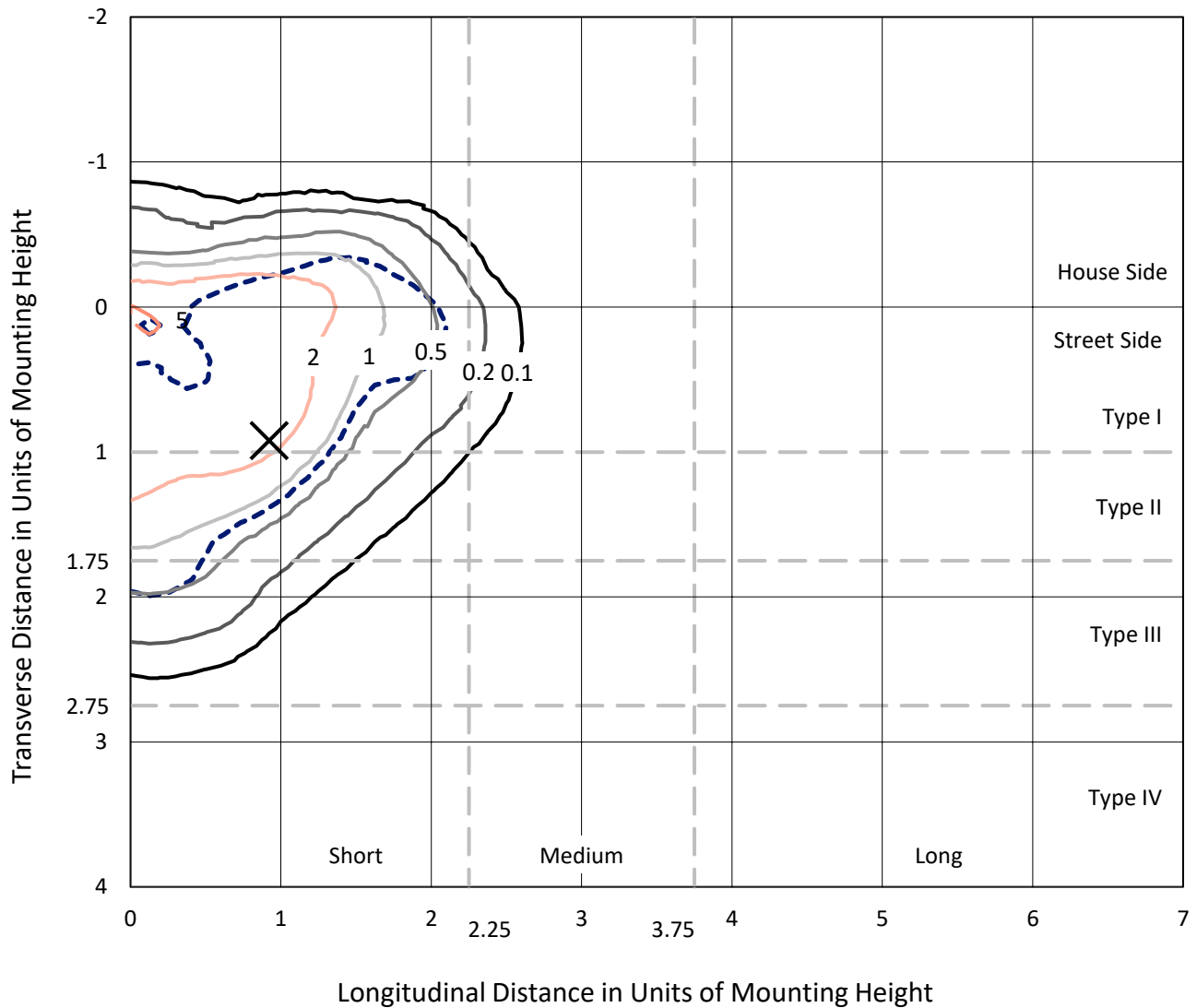
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

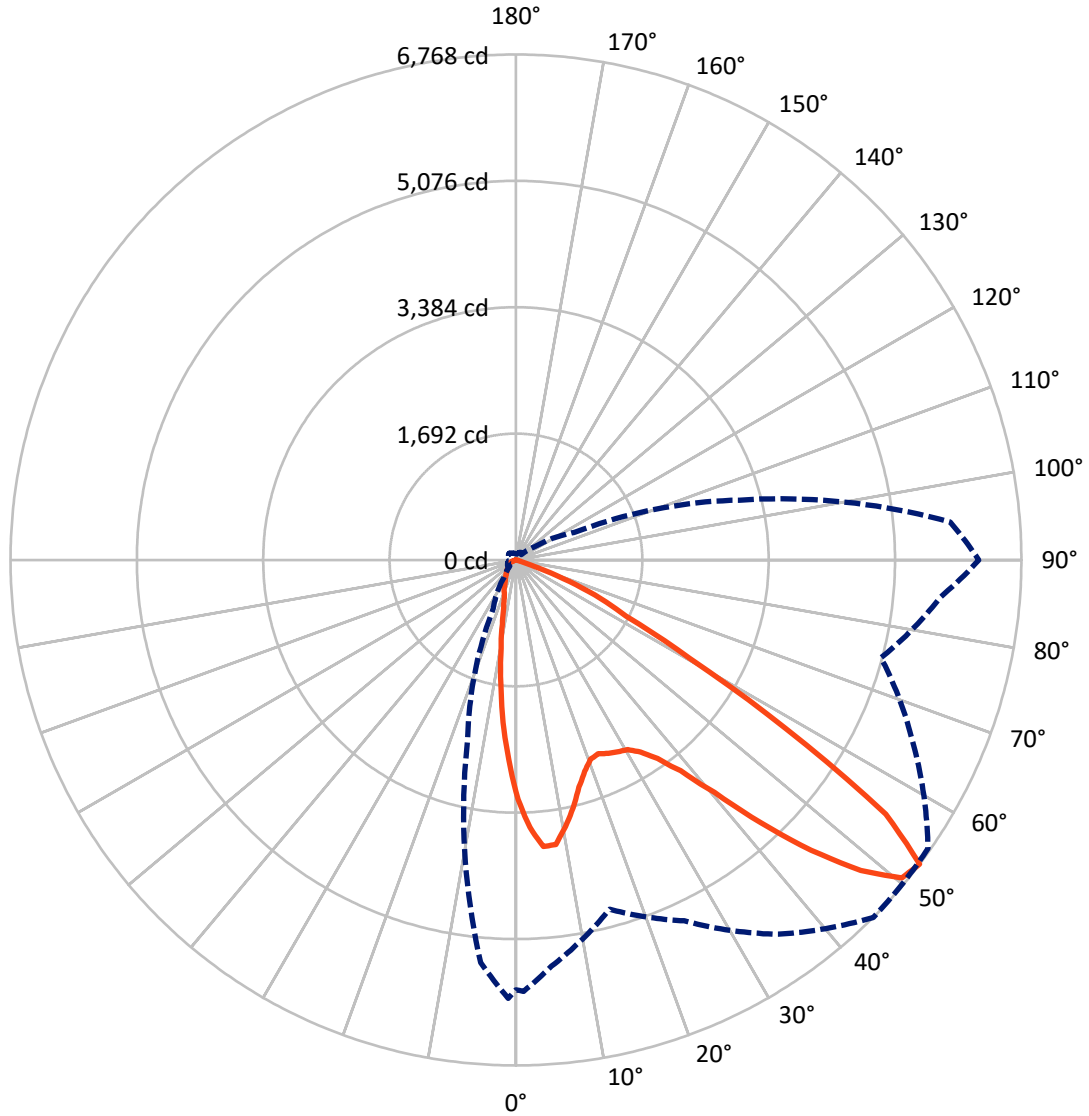
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1283.1	0.0	1283.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5038.9	0.0	5038.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	6322.0	0.0	6322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	3.7
10°-20°	461.2	7.3
20°-30°	701.9	11.1
30°-40°	1049.1	16.6
40°-50°	1494.0	23.6
50°-60°	1606.0	25.4
60°-70°	711.7	11.3
70°-80°	57.6	0.9
80°-90°	6.7	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°	6322.0	100.0
0°-180°	6322.0	100.0

Coefficient of Utilization



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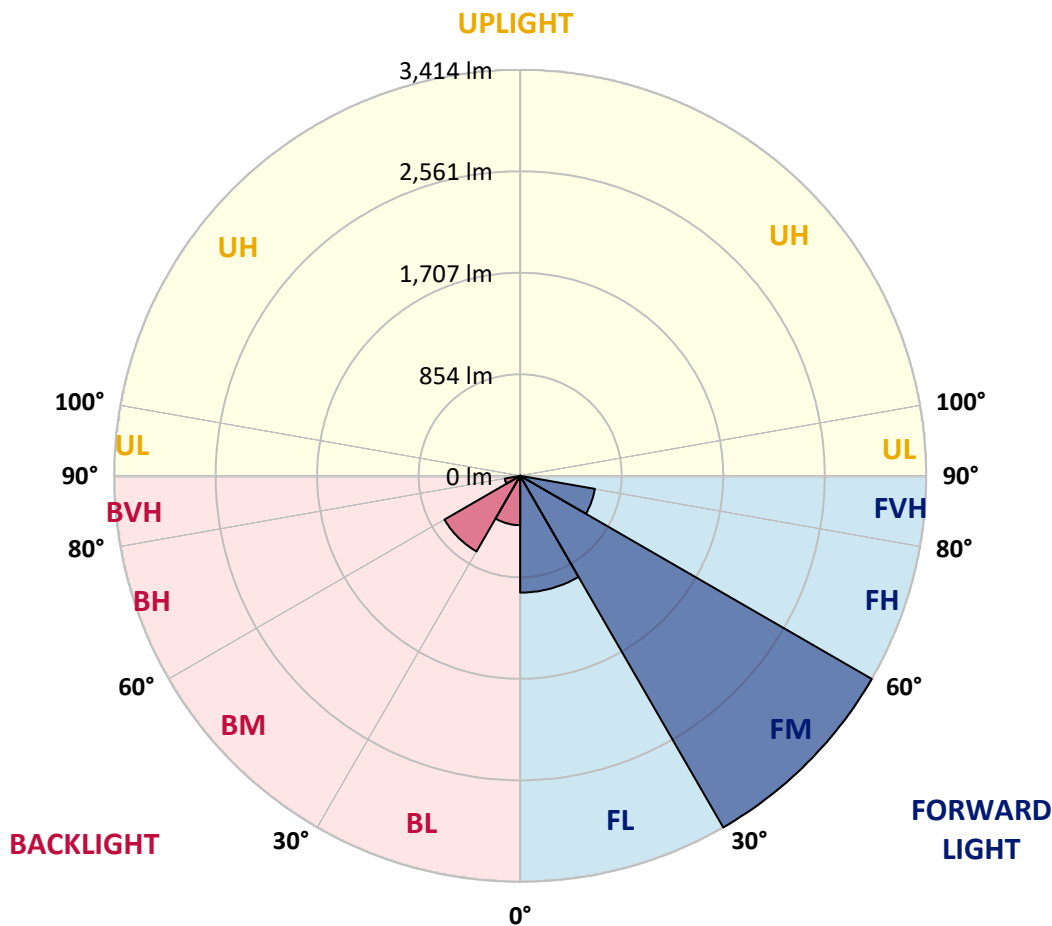
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.9	15.5			
FM (30°-60°)	3414.1	54.0			
FH (60°-80°)	638.0	10.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	415.0	6.6	B1/500		
BM (30°-60°)	735.0	11.6	B1/1000		
BH (60°-80°)	131.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	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°	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5
2.5°	3392.1	3402.0	3456.7	3525.1	3561.2	3643.2	3586.0	3601.0	3569.9	3460.4	3374.7
5°	3288.9	3287.6	3357.2	3526.4	3686.8	3849.6	3854.6	3767.6	3614.6	3446.8	3206.8
7.5°	2978.0	3026.5	3098.6	3368.4	3665.6	3787.5	3845.9	3744.0	3508.9	3269.0	3009.1
10°	2743.0	2767.9	2889.7	3215.5	3433.1	3596.0	3632.0	3573.6	3393.3	3093.6	2802.7
12.5°	2607.5	2619.9	2762.9	3036.4	3266.5	3387.1	3404.5	3431.9	3302.5	3021.5	2672.1
15°	2608.7	2618.7	2811.4	3040.2	3130.9	3098.6	3155.8	3154.6	3210.5	3007.8	2781.5
17.5°	2796.5	2807.7	2981.7	3094.9	3055.1	2979.2	2975.5	3032.7	3150.8	3178.2	2946.9
20°	3119.8	3145.9	3273.9	3267.7	3043.9	2891.0	2848.7	2892.2	3167.0	3322.4	3280.2
22.5°	3555.0	3591.0	3680.5	3508.9	3094.9	2831.3	2817.6	2902.2	3273.9	3644.5	3658.2
25°	4059.8	4120.7	4164.2	3944.1	3276.4	2934.5	2869.8	3015.3	3418.2	3993.9	4139.4
27.5°	4394.3	4457.7	4447.7	4133.1	3398.3	2961.8	2907.1	3042.7	3543.8	4077.2	4390.5
30°	4655.4	4693.9	4763.6	4235.1	3520.1	3038.9	2945.7	3158.3	3584.8	4221.4	4693.9
32.5°	4960.0	4986.1	4991.1	4415.4	3707.9	3135.9	3065.0	3302.5	3766.3	4359.4	4962.5
35°	5267.1	5305.7	5224.9	4638.0	3823.5	3316.2	3264.0	3552.5	3911.8	4502.4	5258.4
37.5°	5600.4	5620.3	5433.8	4730.0	3988.9	3609.7	3581.1	3822.3	4164.2	4761.1	5586.7
40°	5880.2	5898.8	5656.3	4843.1	4163.0	4020.0	4093.4	4337.1	4507.4	4928.9	5750.8
42.5°	6035.6	6079.1	5730.9	4781.0	4512.4	4485.0	4810.8	4896.6	4905.3	4976.2	5897.6
45°	6077.9	6058.0	5607.8	4831.9	4818.3	5249.7	5545.7	5658.8	5300.7	5063.2	5934.9
47.5°	5882.6	5908.8	5426.3	4787.2	5219.9	5829.2	6212.1	6422.3	5595.4	4987.4	5842.9
50°	5724.7	5691.2	5367.9	4754.9	5328.1	6102.7	6693.4	6740.6	5866.5	5080.6	5742.1
52.5°	5755.8	5776.9	5461.1	4840.7	5330.6	6118.9	6768.0	6735.6	5875.2	5059.5	5706.1
55°	5821.7	5728.5	5421.3	4651.7	4973.7	5667.5	6007.0	5957.2	5422.6	4834.4	5617.8
57.5°	5023.4	5167.7	4984.9	4153.0	4082.2	4269.9	4263.7	4416.6	4044.9	4160.5	5114.2
60°	4077.2	4102.1	4170.4	3552.5	2825.1	2760.4	2670.9	2573.9	2721.9	3557.4	4651.7
62.5°	3586.0	3556.2	3799.9	3231.7	1994.5	1669.9	1655.0	1714.7	2100.1	3393.3	4363.2
65°	2606.2	2643.5	2820.1	2508.0	1497.1	1274.5	1252.1	1428.7	1699.8	2719.4	3329.9
67.5°	1591.6	1663.7	1679.9	1546.8	1015.9	807.0	774.7	935.1	1227.3	1759.4	1952.2
70°	734.9	821.9	904.0	844.3	588.1	332.0	313.3	392.9	619.2	1012.1	1035.8
72.5°	222.6	223.8	313.3	327.0	190.2	74.6	65.9	87.0	210.1	334.5	351.9
75°	16.2	17.4	42.3	48.5	36.1	18.7	19.9	23.6	44.8	74.6	56.0
77.5°	1.2	1.2	1.2	6.2	11.2	12.4	16.2	18.7	23.6	27.4	24.9
80°	1.2	0.0	1.2	5.0	8.7	12.4	14.9	17.4	18.7	21.1	18.7
82.5°	0.0	0.0	0.0	3.7	8.7	12.4	13.7	18.7	21.1	24.9	21.1
85°	0.0	0.0	0.0	3.7	8.7	13.7	12.4	6.2	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°	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5
2.5°	3389.6	3341.1	3230.4	3174.5	3042.7	3024.0	2894.7	2873.6	2830.0	2806.4	2749.2
5°	3101.1	3042.7	2862.4	2710.7	2534.1	2411.0	2316.5	2230.7	2181.0	2135.0	2156.1
7.5°	2866.1	2695.7	2495.6	2241.9	2038.0	1906.2	1761.9	1643.8	1574.2	1526.9	1538.1
10°	2619.9	2509.2	2230.7	1946.0	1699.8	1606.5	1493.4	1402.6	1304.4	1219.8	1180.0
12.5°	2542.8	2378.7	2029.3	1739.6	1553.0	1462.3	1333.0	1228.5	1102.9	999.7	963.7
15°	2556.5	2398.6	1974.6	1664.9	1444.9	1288.2	1134.0	1004.7	866.7	794.5	757.2
17.5°	2779.1	2505.5	2010.6	1586.6	1294.4	1076.8	886.6	722.4	619.2	544.6	528.5
20°	3052.6	2736.8	2087.7	1529.4	1171.3	856.7	647.8	506.1	420.3	407.8	404.1
22.5°	3453.0	3114.8	2253.1	1490.9	1020.9	667.7	443.9	368.1	344.4	341.9	343.2
25°	4012.5	3588.5	2433.4	1458.5	907.7	514.8	363.1	312.1	304.6	300.9	307.1
27.5°	4255.0	3874.5	2529.1	1388.9	804.5	463.8	358.1	309.6	288.5	282.3	286.0
30°	4554.7	4064.8	2679.6	1269.5	652.8	381.7	334.5	337.0	327.0	295.9	286.0
32.5°	4952.6	4302.2	2755.4	1185.0	583.2	315.8	245.0	225.1	251.2	256.1	264.8
35°	5207.5	4543.5	2794.0	1135.2	547.1	269.8	207.7	189.0	182.8	184.0	189.0
37.5°	5681.2	4869.2	2842.5	1083.0	519.8	235.0	187.8	170.3	161.6	161.6	166.6
40°	5964.7	5127.9	2908.4	1054.4	492.4	213.9	170.3	155.4	148.0	148.0	150.5
42.5°	6035.6	5256.0	2886.0	1044.5	461.3	208.9	155.4	144.2	135.5	134.3	133.0
45°	6162.4	5451.2	2889.7	1033.3	429.0	190.2	146.7	134.3	121.9	120.6	119.4
47.5°	6301.7	5591.7	2897.2	989.8	397.9	159.2	152.9	124.3	109.4	106.9	106.9
50°	6182.3	5703.6	2961.8	946.2	358.1	129.3	150.5	116.9	97.0	93.3	94.5
52.5°	6197.2	5835.4	3098.6	885.3	308.4	103.2	121.9	110.7	88.3	82.1	83.3
55°	5958.5	5696.1	3117.3	820.7	241.2	79.6	93.3	97.0	74.6	72.1	72.1
57.5°	5129.1	4823.2	2750.5	665.2	159.2	65.9	67.1	84.6	64.7	62.2	63.4
60°	4389.3	3872.0	2213.3	438.9	99.5	52.2	48.5	85.8	57.2	56.0	59.7
62.5°	4001.3	3181.9	1678.6	272.3	68.4	39.8	33.6	69.6	49.7	49.7	54.7
65°	2891.0	2137.4	976.1	143.0	48.5	31.1	24.9	39.8	41.0	42.3	44.8
67.5°	1790.5	1079.3	411.6	69.6	32.3	21.1	16.2	24.9	27.4	27.4	29.8
70°	884.1	430.2	136.8	39.8	24.9	17.4	11.2	13.7	13.7	12.4	13.7
72.5°	273.6	129.3	34.8	24.9	17.4	11.2	6.2	5.0	2.5	0.0	1.2
75°	31.1	24.9	22.4	17.4	11.2	5.0	1.2	0.0	0.0	0.0	0.0
77.5°	18.7	21.1	21.1	17.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0
80°	14.9	16.2	17.4	16.2	9.9	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	21.1	23.6	21.1	13.7	6.2	2.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.7	1.2	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°	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5
2.5°	2725.6	2698.2	2736.8	2679.6	2678.3	2679.6	2663.4	2648.5	2672.1	2735.5	2741.8
5°	2080.2	2138.7	2157.3	2218.3	2184.7	2135.0	2144.9	2111.3	2193.4	2229.5	2200.9
7.5°	1514.5	1510.8	1636.3	1643.8	1660.0	1661.2	1658.7	1592.8	1525.7	1540.6	1585.4
10°	1175.0	1111.6	1172.5	1166.3	1206.1	1194.9	1211.1	1140.2	1163.8	1163.8	1192.4
12.5°	957.4	890.3	879.1	862.9	879.1	885.3	891.5	877.9	917.6	936.3	956.2
15°	731.1	693.8	683.9	652.8	657.8	675.2	690.1	696.3	683.9	712.5	715.0
17.5°	530.9	529.7	535.9	534.7	529.7	526.0	524.7	508.6	503.6	506.1	516.0
20°	402.9	412.8	434.0	455.1	466.3	452.6	434.0	406.6	395.4	397.9	399.1
22.5°	344.4	359.3	387.9	411.6	422.8	397.9	364.3	340.7	335.7	334.5	333.2
25°	312.1	329.5	350.6	358.1	356.9	341.9	317.1	307.1	304.6	302.2	291.0
27.5°	294.7	300.9	304.6	313.3	317.1	307.1	300.9	286.0	283.5	283.5	276.0
30°	284.7	281.0	286.0	279.8	284.7	277.3	278.5	278.5	272.3	274.8	274.8
32.5°	264.8	266.1	266.1	253.7	257.4	248.7	257.4	264.8	266.1	267.3	277.3
35°	194.0	216.4	227.5	227.5	231.3	225.1	223.8	215.1	203.9	192.7	187.8
37.5°	170.3	179.1	194.0	202.7	208.9	203.9	192.7	179.1	172.8	167.9	162.9
40°	151.7	159.2	169.1	179.1	191.5	185.3	167.9	161.6	154.2	154.2	149.2
42.5°	136.8	140.5	146.7	161.6	175.3	162.9	150.5	145.5	141.8	140.5	139.3
45°	123.1	124.3	130.6	143.0	159.2	146.7	134.3	128.1	129.3	130.6	129.3
47.5°	110.7	113.2	116.9	131.8	141.8	135.5	121.9	118.1	118.1	118.1	119.4
50°	95.7	102.0	109.4	121.9	129.3	125.6	114.4	109.4	106.9	106.9	108.2
52.5°	85.8	90.8	100.7	115.6	125.6	119.4	108.2	100.7	95.7	94.5	97.0
55°	74.6	83.3	99.5	110.7	124.3	118.1	105.7	97.0	88.3	87.0	87.0
57.5°	67.1	80.8	95.7	109.4	120.6	115.6	105.7	94.5	83.3	82.1	82.1
60°	63.4	78.3	93.3	105.7	120.6	113.2	104.4	92.0	79.6	79.6	78.3
62.5°	59.7	73.4	88.3	100.7	115.6	109.4	100.7	88.3	75.8	75.8	73.4
65°	49.7	63.4	73.4	84.6	100.7	94.5	85.8	77.1	67.1	64.7	65.9
67.5°	34.8	43.5	53.5	64.7	74.6	72.1	68.4	62.2	53.5	52.2	51.0
70°	17.4	23.6	32.3	43.5	52.2	49.7	47.3	42.3	37.3	36.1	36.1
72.5°	2.5	7.5	13.7	19.9	27.4	28.6	27.4	26.1	24.9	23.6	24.9
75°	0.0	0.0	0.0	5.0	11.2	13.7	16.2	18.7	18.7	16.2	19.9
77.5°	0.0	0.0	0.0	0.0	1.2	6.2	12.4	16.2	19.9	17.4	23.6
80°	0.0	0.0	0.0	0.0	1.2	7.5	12.4	17.4	19.9	17.4	24.9
82.5°	0.0	0.0	0.0	0.0	1.2	8.7	12.4	16.2	18.7	17.4	22.4
85°	0.0	0.0	0.0	0.0	3.7	7.5	5.0	2.5	1.2	1.2	3.7
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°	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5	3205.5
2.5°	2776.6	2864.8	2959.3	2995.4	3107.3	3191.9	3249.1	3372.2	3390.8	3392.1
5°	2230.7	2275.5	2437.1	2513.0	2679.6	2808.9	2946.9	3145.9	3278.9	3288.9
7.5°	1585.4	1709.7	1778.1	1975.8	2181.0	2383.6	2588.8	2820.1	2974.3	2978.0
10°	1275.8	1356.6	1478.4	1626.4	1799.2	2005.6	2279.2	2547.8	2704.4	2743.0
12.5°	1027.1	1168.8	1308.1	1461.0	1592.8	1748.3	2042.9	2401.1	2530.4	2607.5
15°	790.8	920.1	1084.3	1263.3	1412.5	1620.2	1955.9	2365.0	2582.6	2608.7
17.5°	583.2	698.8	850.5	1019.6	1243.4	1538.1	1970.8	2547.8	2752.9	2796.5
20°	419.0	486.2	605.5	802.0	1086.8	1442.4	1985.7	2733.0	3045.1	3119.8
22.5°	332.0	359.3	437.7	611.8	911.4	1341.7	2091.4	3087.4	3446.8	3555.0
25°	288.5	303.4	340.7	482.4	800.8	1331.7	2260.5	3512.7	3981.4	4059.8
27.5°	278.5	281.0	313.3	442.7	741.1	1265.8	2325.2	3814.8	4314.7	4394.3
30°	293.4	333.2	335.7	374.3	630.4	1135.2	2358.8	4107.0	4596.9	4655.4
32.5°	253.7	241.2	249.9	289.7	554.6	1059.4	2422.2	4361.9	4919.0	4960.0
35°	176.6	185.3	205.2	251.2	484.9	979.8	2438.4	4642.9	5224.9	5267.1
37.5°	162.9	167.9	184.0	213.9	426.5	935.1	2416.0	4848.1	5541.9	5600.4
40°	151.7	157.9	166.6	194.0	383.0	885.3	2384.9	5033.4	5735.9	5880.2
42.5°	143.0	148.0	155.4	185.3	345.7	835.6	2341.4	5294.5	5910.0	6035.6
45°	133.0	140.5	149.2	180.3	324.5	802.0	2309.0	5278.3	6010.7	6077.9
47.5°	123.1	135.5	145.5	167.9	318.3	785.8	2322.7	5217.4	5928.6	5882.6
50°	113.2	129.3	146.7	139.3	303.4	753.5	2338.9	5300.7	5733.4	5724.7
52.5°	104.4	123.1	136.8	114.4	269.8	722.4	2495.6	5410.1	5871.4	5755.8
55°	92.0	110.7	109.4	92.0	218.8	698.8	2618.7	5412.6	5778.2	5821.7
57.5°	83.3	98.2	85.8	77.1	161.6	584.4	2418.5	4538.5	4946.3	5023.4
60°	77.1	95.7	64.7	60.9	105.7	421.5	2111.3	3515.2	3931.7	4077.2
62.5°	70.9	90.8	51.0	49.7	73.4	299.7	1735.8	2941.9	3388.3	3586.0
65°	62.2	64.7	41.0	38.5	52.2	161.6	1056.9	2025.5	2532.9	2606.2
67.5°	51.0	49.7	33.6	31.1	34.8	78.3	466.3	1014.6	1468.5	1591.6
70°	41.0	41.0	28.6	24.9	24.9	36.1	121.9	404.1	664.0	734.9
72.5°	29.8	31.1	22.4	19.9	18.7	17.4	19.9	80.8	174.1	222.6
75°	26.1	27.4	22.4	17.4	13.7	11.2	8.7	7.5	9.9	16.2
77.5°	28.6	28.6	23.6	16.2	12.4	8.7	5.0	2.5	2.5	1.2
80°	36.1	37.3	31.1	21.1	14.9	9.9	6.2	2.5	1.2	1.2
82.5°	38.5	42.3	34.8	26.1	18.7	11.2	6.2	1.2	0.0	0.0
85°	9.9	16.2	27.4	23.6	18.7	11.2	6.2	1.2	0.0	0.0
87.5°	0.0	1.2	3.7	3.7	5.0	5.0	3.7	1.2	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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