

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: P527275

Luminaire Tested: **GALN-SA2B-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5893 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

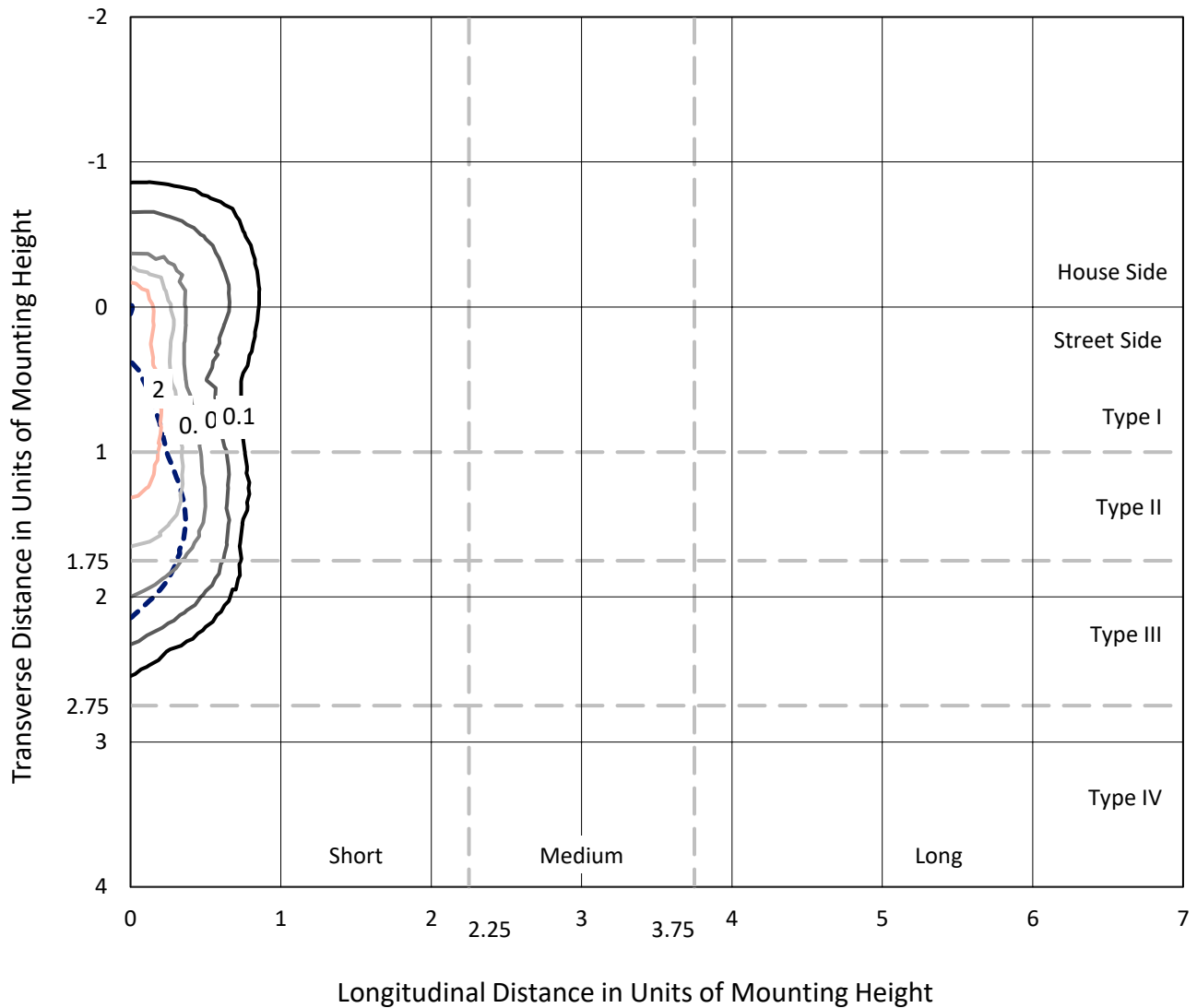
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

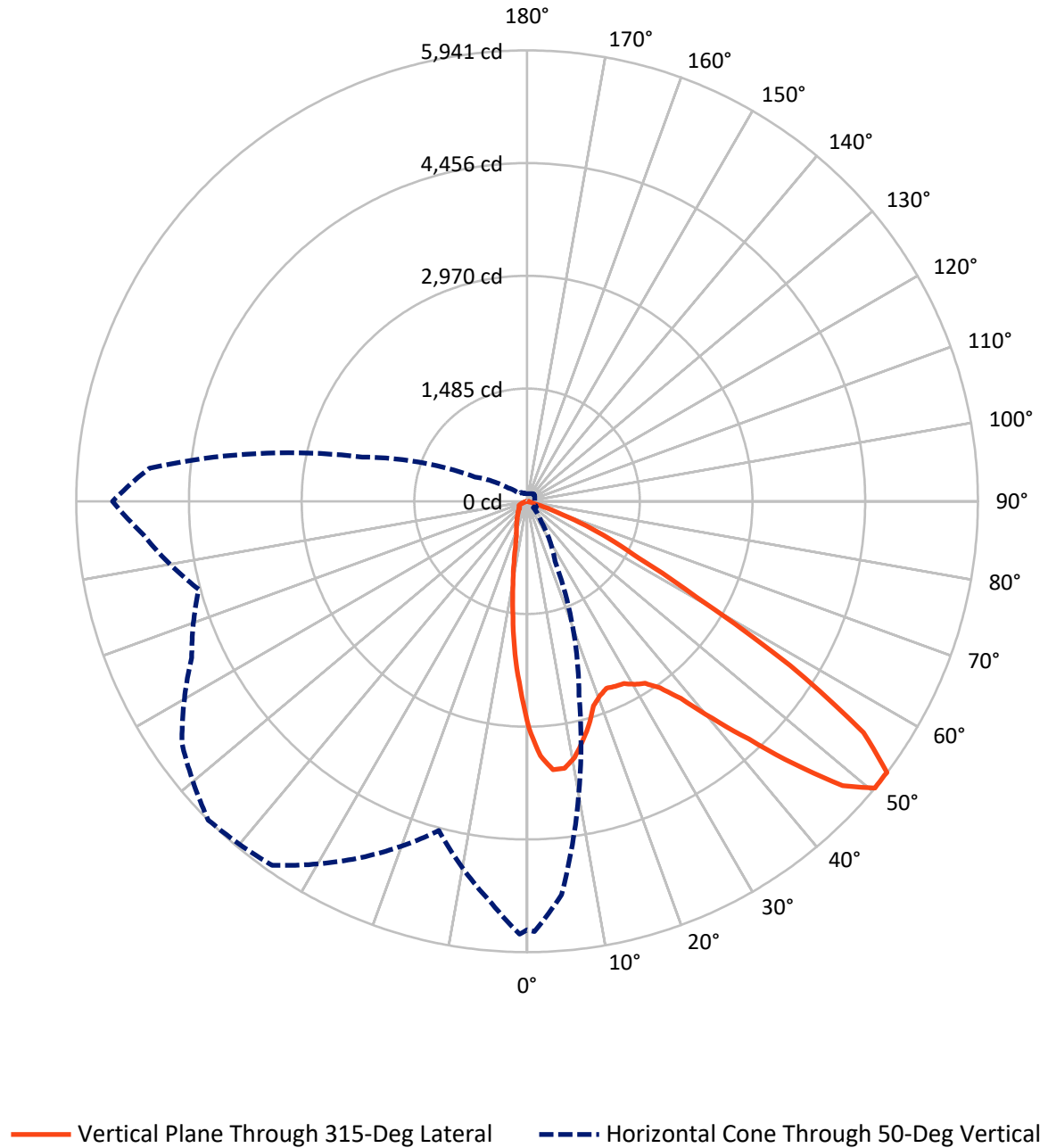
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1180.4	0.0	1180.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4712.6	0.0	4712.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	5893.0	0.0	5893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	3.7
10°-20°	432.9	7.3
20°-30°	650.4	11.0
30°-40°	976.2	16.6
40°-50°	1372.0	23.3
50°-60°	1479.9	25.1
60°-70°	687.1	11.7
70°-80°	64.7	1.1
80°-90°	11.9	0.2
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°	5893.0	100.0
0°-180°	5893.0	100.0

Coefficient of Utilization



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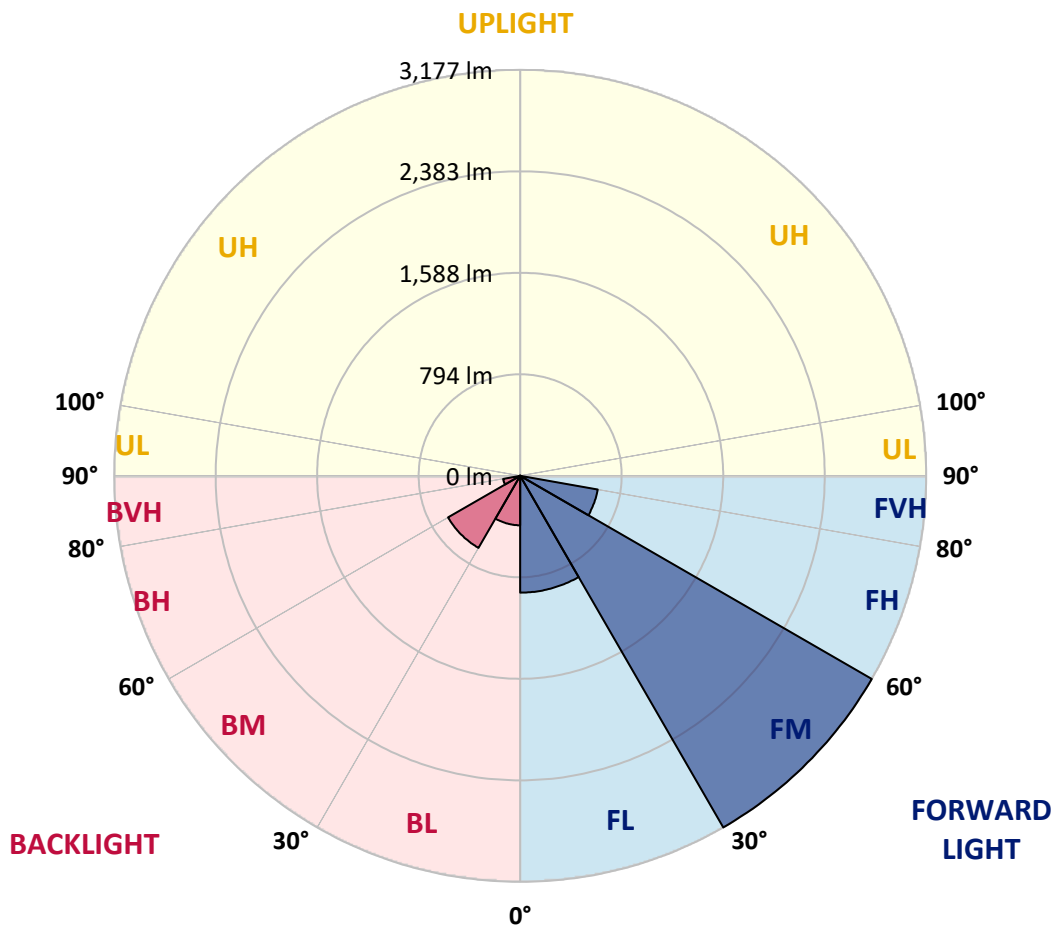
CATALOG NUMBER: GALN-SA2B-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.2	15.5			
FM (30°-60°)	3176.8	53.9			
FH (60°-80°)	616.2	10.5			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	386.9	6.6	B1/500		
BM (30°-60°)	651.4	11.1	B1/1000		
BH (60°-80°)	135.5	2.3	B1/500		G1/500
BVH (80°-90°)	6.5	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5
2.5°	3106.6	3058.6	2997.8	2947.6	2872.7	2721.9	2681.0	2631.9	2591.0	2536.0	2458.8
5°	2824.8	2809.6	2781.5	2592.1	2455.3	2272.9	2123.3	2060.1	1977.1	1909.3	1860.2
7.5°	2609.7	2548.9	2460.0	2269.4	2050.8	1855.5	1689.5	1592.5	1482.6	1445.1	1378.5
10°	2379.3	2393.4	2262.4	1994.7	1730.4	1572.6	1469.7	1376.2	1276.8	1211.3	1116.6
12.5°	2305.7	2260.1	2159.5	1828.6	1603.0	1455.7	1330.6	1214.8	1109.6	1004.3	913.2
15°	2353.6	2283.5	2143.2	1793.6	1504.8	1321.2	1164.5	1007.9	910.8	776.4	681.6
17.5°	2525.5	2469.4	2281.1	1831.0	1454.5	1192.6	959.9	798.6	650.1	528.5	480.5
20°	2811.9	2732.4	2496.3	1878.9	1379.7	1037.1	778.7	579.9	439.6	388.2	361.3
22.5°	3092.6	3049.3	2751.1	1971.3	1313.0	899.1	584.6	390.5	328.5	319.2	301.7
25°	3626.9	3497.1	3140.5	2138.5	1261.6	769.3	440.8	314.5	278.3	271.3	273.6
27.5°	3944.9	3836.2	3500.6	2249.6	1204.3	670.0	373.0	288.8	264.2	249.0	243.2
30°	4250.1	4123.8	3679.5	2315.0	1081.5	564.7	330.9	277.1	271.3	249.0	242.0
32.5°	4485.1	4361.1	3937.9	2413.2	1031.2	496.9	272.4	216.3	201.1	198.8	219.8
35°	4845.2	4713.1	4158.9	2467.0	992.7	461.8	236.2	192.9	175.4	168.4	169.5
37.5°	5180.8	5090.7	4363.5	2488.1	951.7	451.3	211.6	173.0	157.8	153.2	152.0
40°	5461.4	5260.3	4557.6	2510.3	934.2	431.4	196.4	157.8	147.3	140.3	140.3
42.5°	5590.0	5385.4	4775.0	2497.4	929.5	399.9	196.4	145.0	136.8	129.8	128.6
45°	5561.9	5478.9	4872.1	2491.6	929.5	368.3	178.9	141.5	129.8	120.4	118.1
47.5°	5634.4	5525.7	4993.7	2516.1	910.8	346.1	150.8	148.5	122.8	111.1	108.7
50°	5647.3	5668.3	5205.3	2643.6	869.9	318.0	118.1	146.2	118.1	100.6	98.2
52°	5731.5	5600.5	5269.6	2711.4	826.6	297.0	99.4	125.1	113.4	93.5	91.2
52.5°	5615.7	5701.1	5284.8	2735.9	831.3	282.9	95.9	122.8	111.1	93.5	87.7
55°	5485.9	5567.8	5222.8	2788.6	762.3	222.1	74.8	88.9	100.6	81.8	78.3
57.5°	4768.0	4851.0	4538.9	2553.5	620.8	156.7	62.0	66.6	88.9	76.0	72.5
60°	4238.4	4178.7	3809.3	2130.3	440.8	87.7	49.1	51.4	97.0	70.2	69.0
62.5°	3873.6	3746.1	3183.8	1645.1	268.9	58.5	38.6	39.8	74.8	65.5	65.5
65°	2865.7	2723.1	2115.1	995.0	132.1	40.9	29.2	31.6	46.8	56.1	56.1
67.5°	1635.7	1580.8	1021.9	449.0	55.0	25.7	22.2	24.6	36.2	45.6	43.3
70°	751.8	674.6	392.9	94.7	25.7	17.5	17.5	19.9	29.2	33.9	31.6
72.5°	219.8	208.1	95.9	15.2	10.5	10.5	11.7	15.2	22.2	25.7	23.4
75°	16.4	10.5	7.0	4.7	4.7	7.0	9.4	15.2	22.2	24.6	19.9
77.5°	1.2	2.3	1.2	1.2	3.5	7.0	10.5	18.7	29.2	30.4	22.2
80°	1.2	1.2	0.0	1.2	3.5	7.0	11.7	21.0	32.7	35.1	18.7
82.5°	0.0	0.0	0.0	1.2	4.7	9.4	14.0	22.2	30.4	37.4	19.9
85°	0.0	0.0	0.0	1.2	7.0	12.9	16.4	5.8	3.5	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°	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5
2.5°	2513.8	2483.4	2471.7	2482.2	2478.7	2475.2	2539.5	2525.5	2523.1	2544.2	2539.5
5°	1887.1	1833.3	1980.6	1921.0	1983.0	2020.4	2027.4	2030.9	2074.2	2028.6	2088.2
7.5°	1344.6	1358.6	1357.4	1397.2	1468.5	1531.7	1569.1	1539.8	1537.5	1531.7	1505.9
10°	1074.5	1049.9	1045.3	1035.9	1058.1	1111.9	1157.5	1121.3	1095.5	1130.6	1120.1
12.5°	878.1	844.2	825.5	788.0	789.2	825.5	825.5	825.5	851.2	871.1	886.3
15°	673.5	645.4	645.4	608.0	599.8	601.0	619.7	622.0	662.9	674.6	680.5
17.5°	471.2	456.0	473.5	488.7	479.4	481.7	488.7	491.1	496.9	492.2	503.9
20°	362.5	360.1	364.8	391.7	411.6	423.3	415.1	403.4	396.4	380.0	380.0
22.5°	307.5	312.2	320.4	342.6	368.3	375.3	366.0	339.1	318.0	315.7	316.9
25°	273.6	278.3	291.1	305.2	319.2	330.9	321.5	301.7	290.0	279.4	279.4
27.5°	252.5	254.9	261.9	272.4	284.1	293.5	290.0	279.4	266.6	261.9	251.4
30°	236.2	239.7	247.9	250.2	260.7	265.4	259.6	257.2	249.0	243.2	239.7
32.5°	228.0	226.8	232.7	235.0	236.2	239.7	232.7	236.2	235.0	225.7	222.1
35°	171.9	181.2	196.4	209.3	212.8	217.5	216.3	211.6	198.8	188.2	175.4
37.5°	154.3	160.2	168.4	178.9	192.9	198.8	196.4	184.7	169.5	162.5	160.2
40°	142.6	146.2	153.2	160.2	174.2	184.7	176.6	166.0	154.3	148.5	145.0
42.5°	132.1	133.3	136.8	143.8	154.3	170.7	156.7	142.6	138.0	134.5	132.1
45°	120.4	120.4	125.1	128.6	140.3	155.5	141.5	128.6	126.3	123.9	122.8
47.5°	111.1	112.2	114.6	119.3	128.6	139.1	129.8	119.3	113.4	112.2	109.9
50°	99.4	100.6	105.2	109.9	121.6	127.4	121.6	109.9	104.1	100.6	100.6
52°	90.0	93.5	98.2	107.6	115.8	125.1	118.1	105.2	98.2	94.7	92.4
52.5°	88.9	91.2	95.9	106.4	115.8	123.9	116.9	104.1	95.9	93.5	91.2
55°	79.5	83.0	91.2	104.1	114.6	123.9	114.6	102.9	91.2	85.4	83.0
57.5°	76.0	78.3	88.9	105.2	113.4	123.9	114.6	102.9	91.2	80.7	78.3
60°	72.5	77.2	88.9	101.7	112.2	125.1	115.8	101.7	88.9	76.0	76.0
62.5°	69.0	72.5	87.7	99.4	107.6	120.4	111.1	99.4	85.4	72.5	71.3
65°	59.6	65.5	77.2	83.0	92.4	104.1	94.7	86.5	74.8	64.3	63.1
67.5°	45.6	47.9	57.3	64.3	70.2	80.7	76.0	65.5	57.3	49.1	49.1
70°	31.6	33.9	40.9	44.4	50.3	56.1	52.6	44.4	38.6	33.9	32.7
72.5°	22.2	23.4	25.7	28.1	30.4	32.7	31.6	25.7	22.2	21.0	19.9
75°	17.5	19.9	21.0	19.9	18.7	17.5	17.5	15.2	12.9	11.7	11.7
77.5°	17.5	18.7	17.5	15.2	12.9	11.7	10.5	9.4	7.0	5.8	7.0
80°	15.2	15.2	15.2	12.9	11.7	10.5	9.4	8.2	7.0	5.8	5.8
82.5°	16.4	16.4	15.2	12.9	12.9	10.5	10.5	9.4	8.2	5.8	5.8
85°	0.0	0.0	0.0	2.3	5.8	10.5	10.5	9.4	8.2	7.0	7.0
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	5.8	7.0	7.0	7.0
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°	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5
2.5°	2581.6	2626.0	2710.2	2794.4	2845.9	2906.6	3016.6	3075.0	3151.0	3188.4	3262.1
5°	2080.0	2185.2	2222.7	2318.5	2421.4	2524.3	2688.0	2868.1	3017.7	3120.6	3253.9
7.5°	1517.6	1542.2	1687.2	1751.5	1919.8	2106.9	2330.2	2557.1	2746.5	2914.8	3016.6
10°	1137.6	1227.7	1318.9	1441.6	1577.3	1770.2	1984.1	2234.4	2479.9	2648.3	2776.9
12.5°	914.3	985.6	1107.2	1239.4	1406.6	1534.0	1749.1	1997.0	2315.0	2479.9	2649.4
15°	692.2	783.4	921.3	1058.1	1234.7	1369.1	1586.6	1898.8	2308.0	2534.8	2681.0
17.5°	513.3	575.2	699.2	852.4	1032.4	1221.8	1515.3	1888.3	2386.4	2656.4	2807.3
20°	392.9	413.9	492.2	629.0	824.3	1072.2	1399.5	1933.9	2617.9	2952.2	3105.4
22.5°	318.0	327.4	357.8	452.5	641.9	941.2	1344.6	1965.4	2878.6	3306.5	3511.1
25°	277.1	274.8	294.6	335.6	501.6	818.4	1274.4	2084.7	3197.8	3722.8	3906.3
27.5°	252.5	252.5	261.9	291.1	416.2	738.9	1230.0	2170.0	3519.3	4088.7	4188.1
30°	239.7	242.0	268.9	278.3	346.1	644.2	1156.3	2256.6	3826.8	4322.6	4459.4
32.5°	222.1	212.8	206.9	230.3	291.1	558.9	1082.7	2292.8	4075.9	4609.0	4725.9
35°	170.7	166.0	173.0	190.6	250.2	486.4	1000.8	2333.7	4362.3	4941.1	4964.5
37.5°	154.3	153.2	157.8	173.0	210.5	423.3	942.4	2323.2	4581.0	5215.8	5152.7
40°	142.6	142.6	146.2	159.0	188.2	378.8	881.6	2313.9	4792.6	5524.5	5339.8
42.5°	133.3	133.3	139.1	147.3	178.9	349.6	836.0	2301.0	4970.3	5713.9	5449.7
45°	120.4	123.9	133.3	141.5	181.2	329.7	802.1	2251.9	5031.1	5711.6	5397.1
47.5°	111.1	115.8	125.1	136.8	163.7	323.9	778.7	2208.6	5010.1	5571.3	5232.2
50°	100.6	106.4	119.3	139.1	139.1	312.2	754.1	2247.2	4994.9	5462.5	5074.4
52°	93.5	98.2	114.6	135.6	121.6	287.6	738.9	2322.0	5056.8	5448.5	5004.2
52.5°	92.4	95.9	111.1	133.3	115.8	282.9	728.4	2339.6	5076.7	5413.4	5052.1
55°	81.8	86.5	101.7	104.1	94.7	232.7	694.5	2379.3	4978.5	5344.4	5006.5
57.5°	77.2	79.5	90.0	85.4	81.8	175.4	597.5	2317.4	4421.9	4747.0	4658.1
60°	71.3	73.7	84.2	66.6	69.0	122.8	449.0	2012.2	3550.9	3955.4	4115.6
62.5°	69.0	67.8	79.5	53.8	58.5	88.9	316.9	1635.7	2735.9	3256.2	3533.3
65°	60.8	59.6	57.3	45.6	50.3	69.0	189.4	1067.5	1928.0	2463.5	2615.5
67.5°	46.8	49.1	42.1	36.2	42.1	53.8	105.2	478.2	1011.4	1477.9	1600.6
70°	32.7	35.1	33.9	31.6	37.4	44.4	60.8	163.7	418.6	776.4	855.9
72.5°	19.9	24.6	25.7	26.9	32.7	38.6	43.3	52.6	111.1	274.8	341.4
75°	11.7	16.4	19.9	23.4	26.9	32.7	36.2	37.4	38.6	51.4	83.0
77.5°	8.2	11.7	17.5	22.2	26.9	32.7	38.6	40.9	38.6	36.2	38.6
80°	7.0	11.7	16.4	21.0	28.1	33.9	38.6	38.6	37.4	32.7	35.1
82.5°	7.0	11.7	17.5	22.2	26.9	32.7	37.4	38.6	35.1	32.7	33.9
85°	8.2	12.9	18.7	23.4	29.2	26.9	24.6	19.9	18.7	15.2	16.4
87.5°	8.2	11.7	11.7	12.9	14.0	14.0	14.0	12.9	10.5	9.4	9.4
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°	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5
2.5°	3265.6	3359.1	3355.6	3358.0	3343.9	3249.2	3203.6	3087.9	3120.6	3106.6
5°	3390.7	3483.1	3562.6	3553.2	3445.7	3317.0	3126.5	2946.4	2897.3	2824.8
7.5°	3265.6	3487.7	3561.4	3550.9	3391.9	3227.0	2923.0	2743.0	2657.6	2609.7
10°	3066.8	3324.1	3415.3	3434.0	3326.4	3076.2	2796.7	2507.9	2462.4	2379.3
12.5°	2953.4	3140.5	3196.6	3246.9	3209.5	3022.4	2700.9	2423.8	2360.6	2305.7
15°	2861.1	2972.1	2995.5	3052.8	3075.0	2974.5	2751.1	2515.0	2359.5	2353.6
17.5°	2946.4	2900.8	2815.5	2833.0	2903.1	2975.6	2880.9	2695.0	2544.2	2525.5
20°	3087.9	2886.8	2693.9	2737.1	2795.6	3017.7	3077.4	2946.4	2859.9	2811.9
22.5°	3250.4	2911.3	2655.3	2676.3	2787.4	3112.4	3395.4	3322.9	3161.5	3092.6
25°	3550.9	2979.1	2685.7	2699.7	2851.7	3244.6	3683.0	3736.8	3640.9	3626.9
27.5°	3844.4	3154.5	2752.3	2720.7	2884.4	3373.2	3857.2	4146.0	3977.6	3944.9
30°	3994.0	3297.2	2851.7	2797.9	3020.1	3451.5	3962.4	4412.6	4265.3	4250.1
32.5°	4223.2	3426.9	2928.9	2859.9	3096.1	3548.5	4158.9	4703.7	4561.1	4485.1
35°	4319.1	3568.4	3098.4	3017.7	3313.5	3684.2	4259.4	4963.3	4918.9	4845.2
37.5°	4503.8	3720.4	3298.3	3293.7	3576.6	3860.7	4440.6	5316.4	5308.2	5180.8
40°	4519.0	3886.4	3614.0	3761.3	3983.5	4168.2	4599.7	5414.6	5547.9	5461.4
42.5°	4542.4	4177.6	4160.0	4281.6	4472.2	4432.5	4605.5	5438.0	5641.4	5590.0
45°	4552.9	4468.7	4715.4	4939.9	5019.4	4778.6	4550.6	5393.6	5690.5	5561.9
47.5°	4468.7	4718.9	5164.4	5598.2	5621.5	4991.3	4527.2	5348.0	5719.8	5634.4
50°	4480.4	4875.6	5552.6	5940.7	5855.4	5179.6	4490.9	5319.9	5704.6	5647.3
52°	4452.3	4879.1	5607.5	5933.7	5874.1	5075.5	4429.0	5212.3	5690.5	5731.5
52.5°	4483.9	4858.1	5550.2	5938.4	5861.2	5127.0	4420.8	5272.0	5698.7	5615.7
55°	4375.2	4607.8	5214.7	5379.5	5367.8	4653.4	4169.4	5074.4	5484.8	5485.9
57.5°	3954.3	3994.0	4089.9	4086.4	4032.6	3658.4	3566.1	4666.3	4889.6	4768.0
60°	3484.2	2924.2	2665.8	2560.6	2500.9	2440.1	3154.5	4268.8	4289.8	4238.4
62.5°	3010.7	2027.4	1683.7	1654.4	1668.5	1890.6	3049.3	4110.9	3984.7	3873.6
65°	2429.6	1477.9	1223.0	1184.4	1321.2	1560.9	2468.2	3152.2	2958.1	2865.7
67.5°	1525.8	1078.0	826.6	754.1	919.0	1074.5	1621.7	1980.6	1763.2	1635.7
70°	905.0	602.1	374.1	335.6	377.7	572.9	908.5	988.0	817.3	751.8
72.5°	356.6	221.0	104.1	88.9	92.4	201.1	334.4	326.2	246.7	219.8
75°	95.9	66.6	36.2	29.2	24.6	37.4	53.8	35.1	12.9	16.4
77.5°	44.4	39.8	31.6	24.6	18.7	14.0	7.0	2.3	2.3	1.2
80°	38.6	33.9	29.2	24.6	18.7	11.7	5.8	1.2	1.2	1.2
82.5°	36.2	31.6	26.9	22.2	17.5	11.7	5.8	1.2	0.0	0.0
85°	15.2	19.9	22.2	21.0	18.7	11.7	5.8	1.2	0.0	0.0
87.5°	8.2	7.0	5.8	4.7	3.5	2.3	2.3	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

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