

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: P451770

Luminaire Tested: **GALN-SA2C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451770
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-SA2C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 8068 lumens
Efficiency: N/A
Efficacy: 74.7 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): 108
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

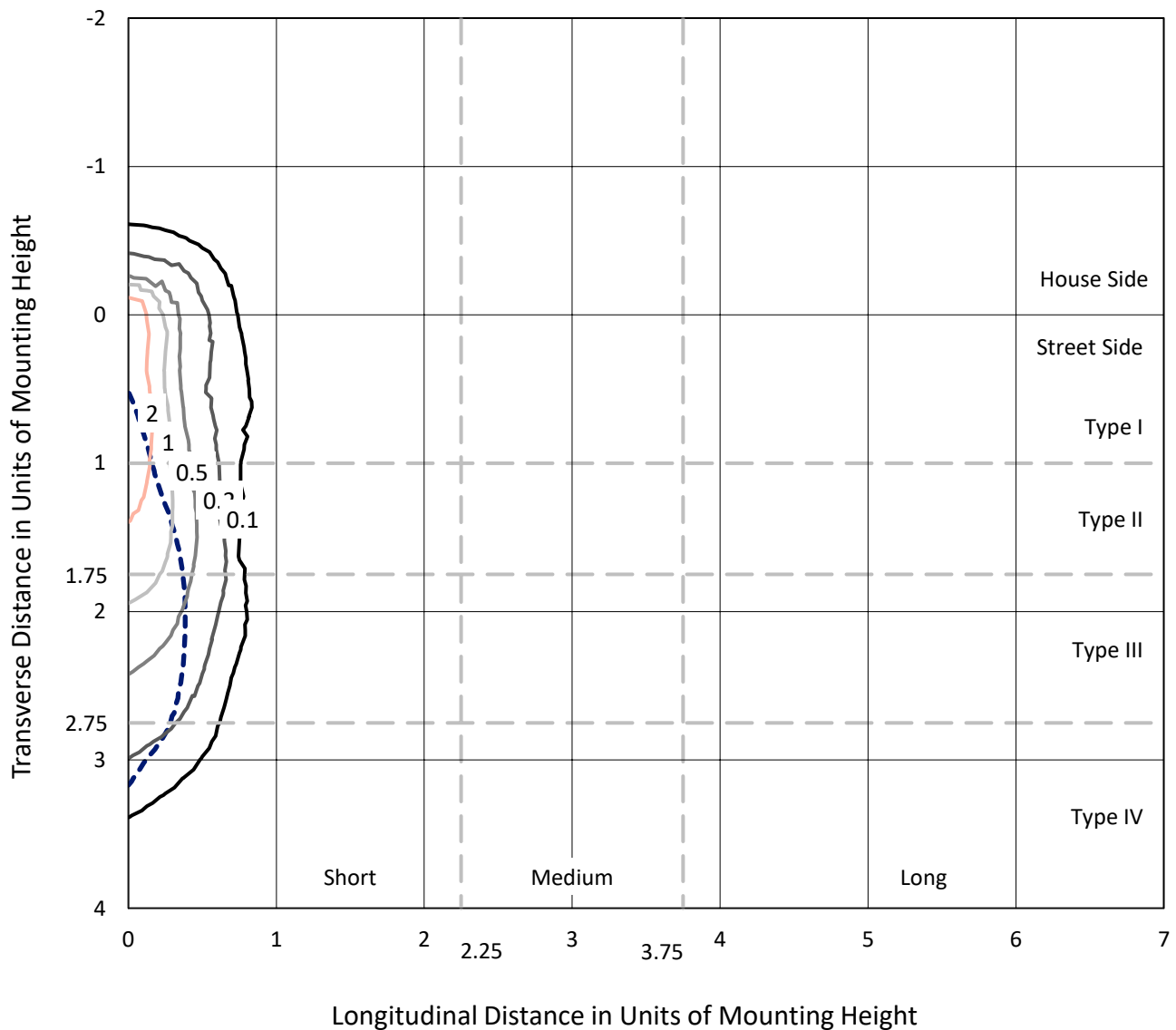


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Iso-Footcandle Lines of Horizontal Illumination

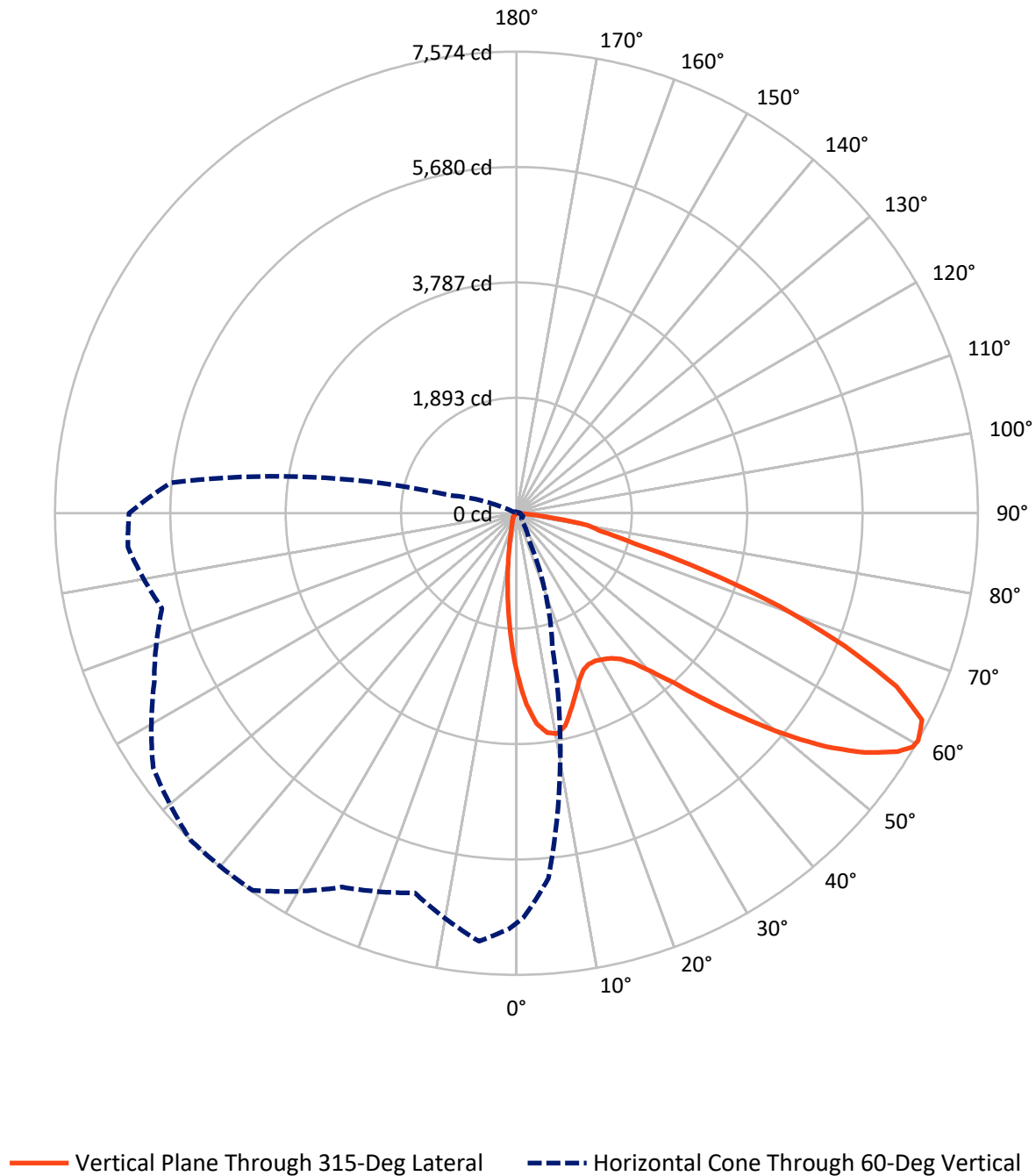
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.1	0.0	995.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7072.9	0.0	7072.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	8068.0	0.0	8068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	2.5
10°-20°	393.9	4.9
20°-30°	577.5	7.2
30°-40°	858.9	10.6
40°-50°	1250.0	15.5
50°-60°	1802.6	22.3
60°-70°	1982.6	24.6
70°-80°	888.1	11.0
80°-90°	116.0	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°	8068.0	100.0
0°-180°	8068.0	100.0

Coefficient of Utilization



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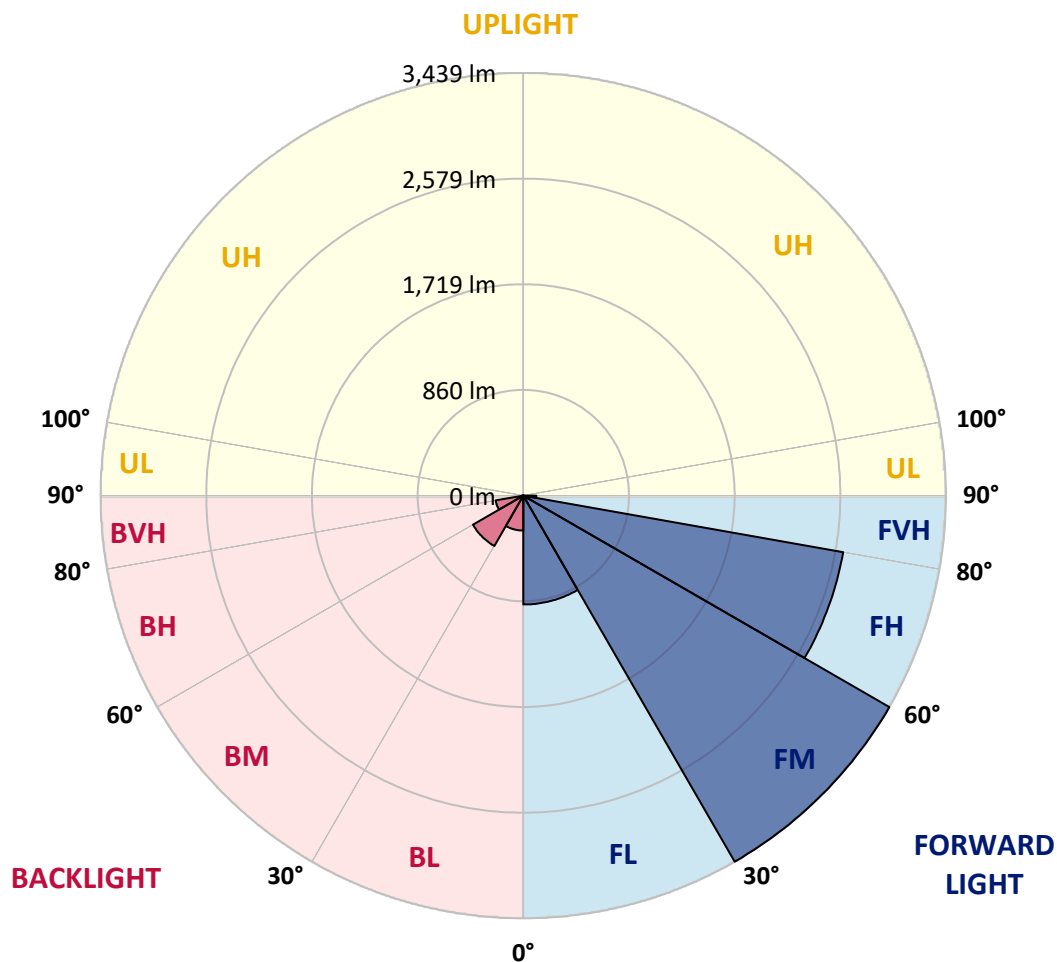
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.4	11.0			
FM	(30°-60°)	3438.8	42.6			
FH	(60°-80°)	2642.5	32.8			G2/5000
FVH	(80°-90°)	106.1	1.3			G2/225
BL	(0°-30°)	284.3	3.5	B1/500		
BM	(30°-60°)	472.7	5.9	B1/1000		
BH	(60°-80°)	228.2	2.8	B1/500		G1/500
BVH	(80°-90°)	9.9	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°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2.5°	2931.5	2918.7	2889.2	2799.7	2721.8	2620.0	2516.9	2436.0	2386.3	2294.9	2253.2
5°	2840.2	2846.3	2761.0	2577.0	2372.2	2232.4	2079.7	1958.2	1824.5	1739.9	1651.0
7.5°	2601.6	2589.3	2496.7	2240.4	1991.4	1789.0	1595.8	1438.8	1340.0	1260.9	1194.7
10°	2397.4	2388.2	2269.8	1939.8	1672.4	1521.0	1390.3	1253.0	1146.9	1030.9	938.3
12.5°	2269.2	2248.3	2112.2	1767.5	1549.8	1408.7	1266.4	1123.5	977.0	859.8	747.6
15°	2226.2	2196.2	2044.7	1708.0	1471.3	1292.2	1113.7	949.4	780.7	651.3	566.7
17.5°	2304.1	2254.5	2093.2	1697.6	1377.5	1140.1	920.5	706.5	531.1	432.4	380.2
20°	2482.6	2425.6	2215.8	1687.2	1273.2	969.6	699.8	499.2	367.4	313.4	284.6
22.5°	2747.5	2669.0	2397.4	1703.7	1176.9	803.4	505.4	352.6	291.9	258.2	238.0
25°	3065.8	3000.2	2627.3	1762.6	1100.9	672.8	390.7	288.2	245.9	225.1	209.7
27.5°	3414.8	3309.9	2924.8	1833.1	1031.6	571.6	342.8	257.6	218.9	199.9	192.0
30°	3663.2	3581.6	3173.8	1882.2	945.1	495.5	313.4	253.9	219.6	196.9	182.1
32.5°	3908.5	3804.2	3382.3	1904.9	881.9	442.8	271.1	221.4	192.6	180.9	166.2
35°	4171.0	4061.8	3590.2	1892.6	834.7	407.8	245.9	197.5	165.0	145.3	130.6
37.5°	4436.5	4321.2	3796.9	1848.5	805.3	393.7	226.3	187.7	155.8	135.5	119.6
40°	4751.8	4597.8	3990.7	1812.3	774.6	386.4	213.4	181.5	149.0	127.6	111.6
42.5°	5009.4	4862.8	4174.1	1793.3	753.7	369.2	213.4	176.6	144.7	120.8	104.3
45°	5253.5	5101.4	4372.2	1808.6	745.1	347.7	215.9	176.0	141.7	115.9	99.4
47.5°	5457.7	5325.8	4575.8	1866.2	734.1	324.4	203.0	184.6	139.8	111.6	94.4
50°	5698.7	5571.1	4845.0	1982.8	714.5	301.1	187.1	198.7	139.2	107.9	90.2
52.5°	6038.5	5900.5	5216.7	2115.2	683.2	265.6	172.3	196.9	136.8	101.8	85.9
55°	6453.7	6342.0	5647.2	2274.1	640.3	225.7	149.0	174.8	129.4	91.4	78.5
57.5°	6719.8	6624.8	5969.8	2342.8	574.7	184.6	131.2	146.6	118.4	81.6	69.9
59°	6751.1	6665.2	6037.2	2320.1	531.7	168.7	122.7	125.7	115.3	76.0	65.0
60°	6724.7	6635.8	6010.3	2275.9	491.9	157.6	115.3	111.6	115.9	73.0	61.3
62.5°	6555.5	6403.4	5748.4	2052.1	429.9	144.7	102.4	91.4	102.4	65.6	54.6
65°	6228.6	6000.4	5230.1	1736.8	405.4	137.4	87.1	76.7	77.9	57.6	47.2
67.5°	5657.6	5370.0	4540.2	1411.2	395.0	138.0	73.6	68.7	60.1	49.1	41.7
70°	4754.8	4467.8	3642.9	1161.0	390.1	138.0	62.6	58.9	50.3	41.1	36.2
72.5°	3369.4	3060.3	2457.5	912.0	351.4	137.4	53.4	53.4	41.1	34.3	29.4
75°	1903.7	1906.1	1544.9	645.2	291.9	113.5	42.9	42.3	30.1	26.4	22.1
77.5°	1109.4	1089.8	1041.4	277.2	135.5	51.5	30.1	25.8	20.9	19.0	15.9
80°	570.4	469.2	456.9	100.6	48.4	32.5	20.9	14.7	13.5	12.3	11.0
82.5°	168.7	169.3	150.9	40.5	27.0	21.5	10.4	8.0	7.4	6.7	6.7
85°	11.7	7.4	8.6	12.3	16.6	8.6	0.6	1.8	1.8	2.5	3.1
87.5°	1.2	0.6	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°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2.5°	2207.2	2234.2	2183.9	2185.2	2143.5	2156.9	2107.9	2123.8	2095.0	2117.1	2182.1
5°	1660.8	1666.9	1626.4	1613.6	1619.7	1644.8	1654.7	1609.9	1628.9	1591.5	1589.0
7.5°	1170.2	1177.5	1154.2	1151.1	1195.3	1184.9	1203.9	1157.9	1114.3	1133.4	1098.4
10°	908.9	878.2	830.4	816.9	808.3	813.8	813.8	772.1	766.0	749.4	774.6
12.5°	717.6	680.1	634.8	573.4	558.1	556.9	534.2	497.4	485.7	471.6	492.5
15°	521.3	506.0	467.9	433.6	398.6	391.9	355.1	325.0	285.2	279.7	277.8
17.5°	366.7	344.1	343.4	323.8	303.6	290.1	255.7	221.4	206.1	204.2	204.2
20°	274.8	266.8	253.9	251.4	245.3	230.0	199.3	180.9	173.6	174.2	176.6
22.5°	231.2	225.7	214.0	208.5	206.1	192.6	169.9	157.6	153.9	153.9	154.5
25°	206.7	201.8	188.9	180.3	177.2	167.4	149.6	140.4	137.4	137.4	137.4
27.5°	188.3	182.1	168.7	161.3	155.8	144.7	133.7	124.5	121.4	121.4	122.0
30°	175.4	168.7	156.4	146.6	138.0	128.2	119.0	111.0	107.3	106.7	107.3
32.5°	158.2	152.1	139.8	133.7	123.9	112.2	104.9	97.5	93.8	94.4	93.8
35°	123.3	121.4	112.8	114.7	109.2	99.4	92.6	84.6	80.3	79.7	81.0
37.5°	112.2	104.9	95.1	95.7	93.8	90.2	79.1	70.5	67.5	67.5	68.1
40°	103.6	96.3	85.2	79.7	80.3	80.3	68.7	59.5	56.4	55.8	57.0
42.5°	96.3	88.9	76.7	67.5	65.0	68.1	58.3	49.1	46.0	44.8	46.0
45°	91.4	83.4	69.3	58.9	51.5	55.2	47.8	40.5	36.8	36.8	36.2
47.5°	86.5	79.1	63.8	50.9	42.9	41.1	39.3	32.5	28.8	28.2	28.8
50°	82.2	74.8	57.6	44.2	36.2	31.9	31.9	25.8	23.3	22.1	22.7
52.5°	77.9	69.9	52.1	39.3	31.3	25.8	22.7	20.9	19.0	18.4	19.0
55°	71.8	63.8	46.6	33.7	27.0	21.5	17.8	17.2	15.9	14.7	15.9
57.5°	64.4	57.0	41.1	28.8	21.5	16.6	14.7	14.1	12.9	12.3	12.3
59°	60.1	53.4	38.0	25.1	19.0	14.7	13.5	12.9	11.7	10.4	11.0
60°	57.6	52.1	36.2	23.3	17.2	13.5	12.3	11.7	10.4	9.8	10.4
62.5°	50.9	46.6	31.9	19.0	13.5	9.8	8.6	9.2	8.6	8.0	8.6
65°	44.8	41.1	27.0	14.7	10.4	6.7	6.1	8.0	7.4	6.7	7.4
67.5°	39.9	35.6	22.7	11.0	7.4	3.7	4.3	6.7	6.7	6.1	6.7
70°	34.3	30.7	18.4	8.0	3.7	1.8	3.1	4.9	6.1	5.5	6.1
72.5°	28.2	23.9	14.1	5.5	1.8	0.0	1.8	4.3	6.1	5.5	6.1
75°	22.1	17.8	10.4	3.1	0.0	0.0	0.6	3.7	6.1	5.5	6.1
77.5°	15.9	12.9	6.1	0.6	0.0	0.0	0.6	3.7	6.1	5.5	6.1
80°	10.4	9.2	2.5	0.0	0.0	0.0	0.6	3.7	6.1	6.1	6.7
82.5°	6.7	4.9	0.0	0.0	0.0	0.0	1.2	4.9	6.7	7.4	7.4
85°	3.1	0.0	0.0	0.0	0.0	0.0	2.5	6.1	8.0	8.0	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.3	7.4	9.2	9.2	9.2
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°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2.5°	2193.1	2231.8	2286.3	2370.4	2438.4	2545.8	2628.0	2740.2	2853.6	2888.0	2941.3
5°	1614.2	1663.9	1787.7	1900.6	1971.7	2198.6	2342.2	2568.5	2771.5	2869.0	2975.1
7.5°	1121.1	1180.0	1274.4	1432.0	1581.7	1766.3	1998.1	2256.9	2554.4	2693.6	2843.2
10°	786.9	860.4	993.5	1122.9	1311.2	1486.6	1715.4	2001.2	2329.3	2493.6	2681.3
12.5°	496.8	562.4	738.4	883.8	1118.6	1322.3	1533.2	1792.0	2172.3	2340.9	2537.8
15°	284.0	339.1	421.3	607.8	868.4	1137.7	1400.8	1701.3	2091.9	2299.8	2512.7
17.5°	211.6	226.3	263.1	368.6	605.9	920.5	1278.7	1673.7	2146.5	2390.6	2633.5
20°	177.9	187.7	204.8	246.5	386.4	709.0	1159.7	1678.6	2323.1	2629.8	2860.4
22.5°	159.5	165.6	179.7	206.7	263.7	516.4	1020.5	1707.4	2537.2	2923.6	3189.7
25°	139.8	147.8	160.1	183.4	219.6	358.2	883.1	1771.8	2837.1	3296.4	3546.7
27.5°	124.5	131.9	144.1	165.6	192.6	273.5	723.1	1827.0	3153.5	3671.8	3876.6
30°	109.2	116.5	128.8	146.0	170.5	221.4	550.7	1859.5	3460.8	3953.3	4110.9
32.5°	96.3	102.4	114.1	129.4	149.6	187.7	434.2	1825.8	3695.7	4209.0	4314.5
35°	83.4	90.8	100.6	114.7	132.5	160.1	361.2	1709.2	3897.5	4472.1	4510.1
37.5°	69.9	78.5	88.9	101.8	115.9	147.2	290.1	1580.5	4113.3	4800.2	4737.7
40°	58.9	66.8	76.7	90.8	103.6	134.9	223.2	1443.1	4346.4	5108.1	4986.1
42.5°	47.8	56.4	68.1	81.0	102.4	117.8	172.9	1300.8	4555.5	5376.1	5210.5
45°	38.0	45.4	57.6	74.2	101.8	101.2	133.7	1160.3	4713.1	5567.5	5377.9
47.5°	30.1	36.2	48.4	72.4	93.8	85.9	107.3	1073.3	4878.7	5739.8	5506.1
50°	23.9	30.1	41.7	75.4	82.2	73.6	90.2	1087.4	5038.8	5827.5	5558.9
52.5°	20.2	26.4	36.2	59.5	63.2	64.4	79.1	1152.4	5245.5	5921.3	5663.7
55°	17.8	23.3	30.7	41.7	49.1	57.6	72.4	1199.6	5522.1	6122.5	5895.0
57.5°	14.1	20.2	27.6	35.6	40.5	50.3	66.8	1203.3	5772.3	6380.7	6202.2
59°	12.9	18.4	25.8	33.7	36.2	45.4	63.2	1172.0	5781.5	6419.3	6343.3
60°	11.7	17.8	24.5	31.3	34.3	42.9	60.1	1135.8	5698.1	6358.0	6401.5
62.5°	9.8	15.3	21.5	25.1	29.4	35.6	52.1	1004.6	5293.9	6080.2	6293.6
65°	8.6	13.5	18.4	20.9	24.5	30.7	46.0	804.0	4847.5	5703.6	5984.5
67.5°	8.0	12.3	15.9	17.8	21.5	28.2	41.1	567.9	4269.1	5225.9	5520.2
70°	7.4	11.7	14.1	16.6	19.0	23.9	35.0	331.2	3288.5	4388.1	4699.0
72.5°	7.4	11.0	12.3	14.1	16.6	21.5	32.5	179.1	2248.3	3347.3	3749.0
75°	7.4	10.4	11.0	12.3	14.7	19.6	28.8	93.8	1453.5	2325.6	2870.2
77.5°	7.4	9.8	11.0	11.7	14.1	17.2	25.1	58.9	968.4	1628.9	1939.8
80°	8.0	9.8	10.4	11.7	13.5	15.9	20.9	39.3	569.1	980.0	1180.6
82.5°	8.6	9.8	11.0	12.3	14.1	15.3	18.4	24.5	262.5	648.2	733.5
85°	9.2	10.4	11.7	12.9	14.7	15.3	17.2	17.8	42.9	292.5	395.6
87.5°	9.8	11.0	12.3	13.5	15.9	15.9	15.9	15.9	14.7	31.3	79.7
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°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2.5°	3008.8	3078.1	3126.6	3138.8	3103.9	3087.9	3043.8	2975.1	2933.4	2931.5
5°	3170.7	3333.2	3446.1	3465.1	3397.6	3283.6	3148.0	2973.2	2870.8	2840.2
7.5°	3143.1	3427.7	3609.2	3635.6	3522.1	3304.4	3041.9	2760.4	2648.8	2601.6
10°	3029.7	3376.8	3636.2	3677.9	3526.4	3219.8	2886.1	2572.1	2433.5	2397.4
12.5°	2932.8	3283.6	3514.2	3571.8	3457.1	3151.1	2792.9	2451.3	2302.9	2269.2
15°	2890.4	3173.2	3314.2	3343.7	3324.7	3108.2	2783.1	2432.9	2263.0	2226.2
17.5°	2932.8	3079.3	3097.1	3127.2	3169.5	3103.9	2877.6	2532.9	2349.5	2304.1
20°	3043.8	2997.8	2924.2	2937.1	3034.0	3121.7	3045.6	2754.3	2531.1	2482.6
22.5°	3232.7	2977.5	2810.7	2799.7	2922.3	3181.1	3292.1	3054.2	2795.4	2747.5
25°	3464.5	3028.4	2769.0	2745.1	2878.8	3268.2	3560.2	3421.6	3138.8	3065.8
27.5°	3717.2	3133.9	2769.0	2745.7	2875.1	3345.5	3789.5	3746.6	3494.5	3414.8
30°	3855.8	3221.0	2808.9	2782.5	2920.5	3390.3	3912.2	4035.5	3761.9	3663.2
32.5°	3979.6	3341.8	2886.8	2837.1	3015.6	3456.5	4022.0	4280.8	3974.7	3908.5
35°	4093.7	3471.2	2994.1	2936.4	3140.7	3547.3	4143.4	4538.4	4271.0	4171.0
37.5°	4219.4	3621.5	3161.5	3112.5	3349.8	3723.9	4287.5	4876.9	4562.3	4436.5
40°	4356.2	3795.7	3436.9	3416.0	3682.2	3923.8	4469.7	5238.1	4894.7	4751.8
42.5°	4495.4	3996.2	3774.2	3808.5	4058.8	4204.1	4656.7	5515.9	5167.0	5009.4
45°	4621.8	4252.6	4212.7	4382.6	4497.9	4477.6	4795.3	5711.6	5404.3	5253.5
47.5°	4781.2	4626.1	4743.2	5005.1	5008.1	4775.1	4900.2	5871.6	5608.5	5457.7
50°	4959.7	5067.0	5428.2	5695.0	5623.3	5067.6	5022.9	6061.2	5819.5	5698.7
52.5°	5166.4	5560.7	6061.2	6357.4	6189.9	5386.5	5227.1	6266.0	6154.4	6038.5
55°	5406.8	5897.4	6692.2	6928.3	6759.7	5782.7	5537.4	6543.8	6532.8	6453.7
57.5°	5678.5	6253.1	7057.8	7377.3	7227.0	6247.6	5971.0	6805.7	6764.0	6719.8
59°	5893.1	6435.9	7219.0	7550.2	7459.5	6573.3	6262.3	6968.8	6817.3	6751.1
60°	6023.1	6559.8	7278.5	7573.5	7552.7	6767.1	6446.9	7048.6	6816.7	6724.7
62.5°	6408.9	6776.3	7255.8	7469.9	7551.5	7138.7	6988.5	7136.3	6690.4	6555.5
65°	6546.3	6704.5	6879.9	6853.5	6923.4	7119.7	7334.3	7040.0	6420.5	6228.6
67.5°	6278.9	5917.6	5979.6	5803.6	5769.2	6329.8	7193.9	6569.0	5892.5	5657.6
70°	5292.7	4533.4	4502.2	4583.1	4361.1	5124.7	6459.8	5661.9	5021.0	4754.8
72.5°	4166.1	3203.8	2940.1	3238.2	3231.4	3909.7	5366.3	4017.7	3392.1	3369.4
75°	3276.2	2230.5	1957.6	2006.1	2099.3	2830.3	4274.0	2551.3	2088.9	1903.7
77.5°	2199.3	1580.5	1474.4	1414.9	1515.4	1817.2	2704.0	1383.6	1171.4	1109.4
80°	1267.7	1148.1	1303.9	1183.7	1237.6	1145.0	1344.9	634.8	526.8	570.4
82.5°	824.9	653.8	696.7	517.6	707.7	713.9	431.8	187.7	158.8	168.7
85°	515.8	306.6	172.3	122.7	244.1	448.9	134.9	11.7	13.5	11.7
87.5°	133.7	50.9	21.5	31.9	39.3	35.0	31.3	1.8	0.6	1.2
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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