

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: P452234

Luminaire Tested: **GALN-SA3A-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452234
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-SA3A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 7791 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

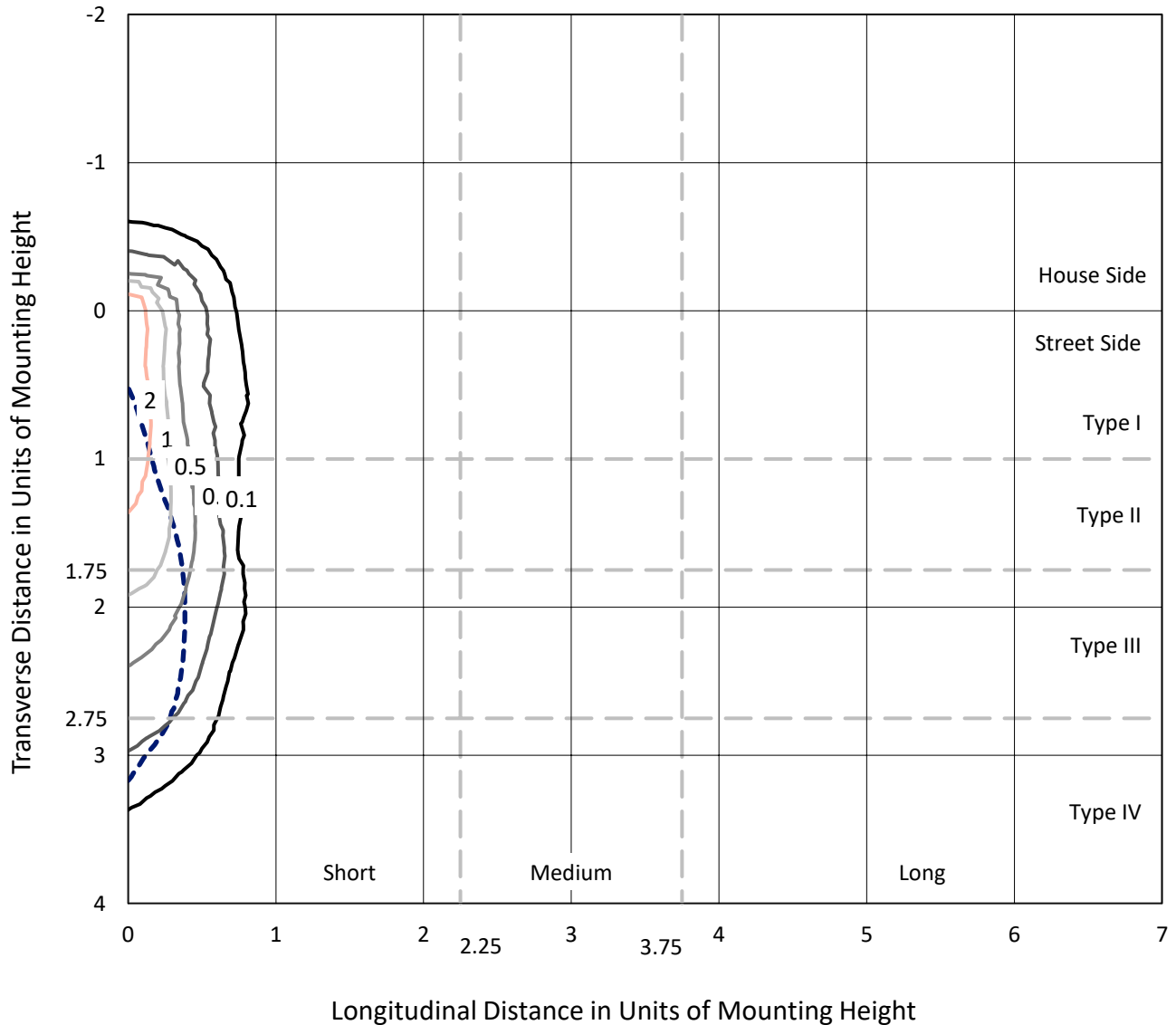
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

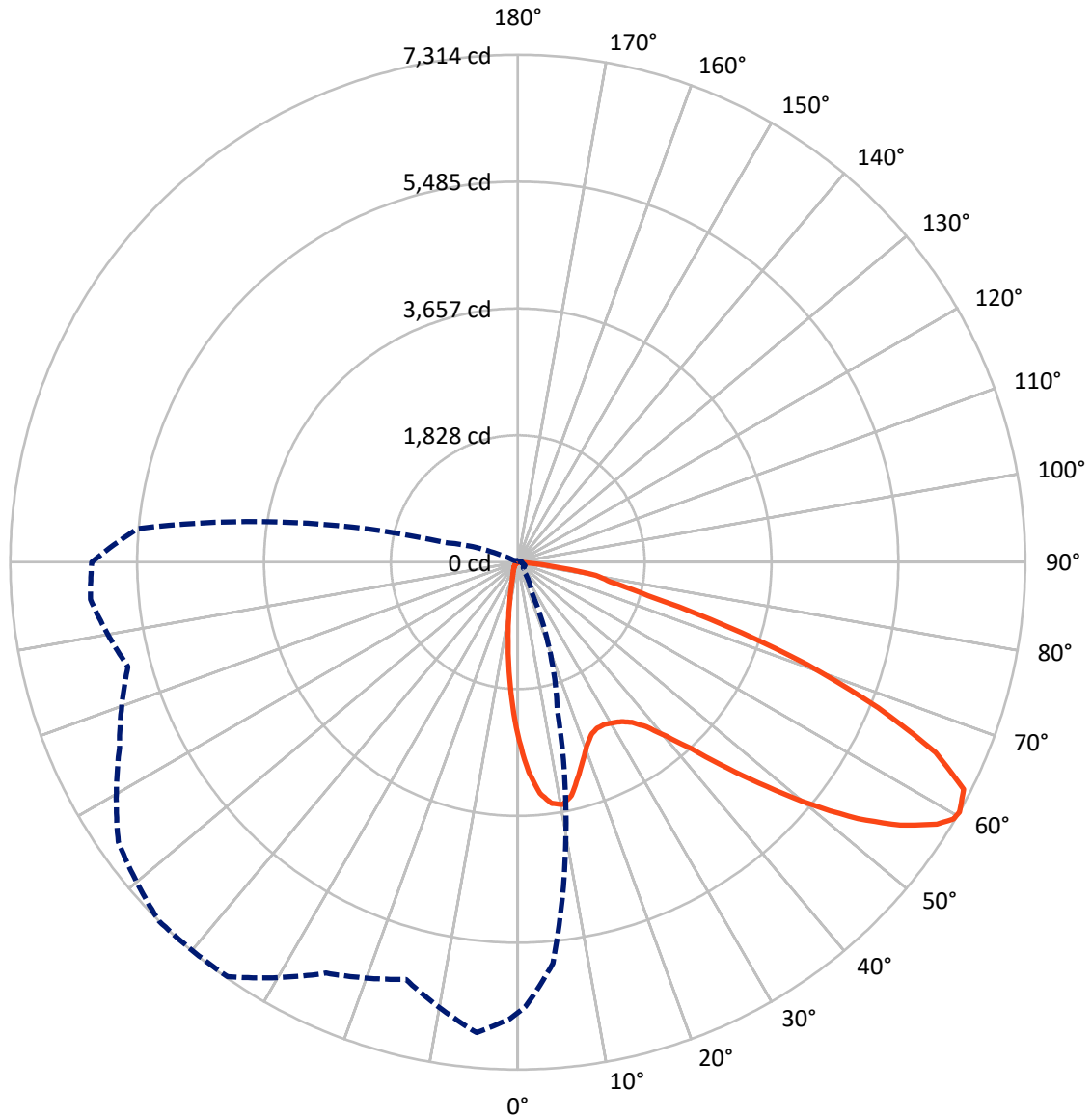
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.9	0.0	960.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6830.1	0.0	6830.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	7791.0	0.0	7791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	2.5
10°-20°	380.4	4.9
20°-30°	557.7	7.2
30°-40°	829.4	10.6
40°-50°	1207.1	15.5
50°-60°	1740.7	22.3
60°-70°	1914.6	24.6
70°-80°	857.6	11.0
80°-90°	112.1	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°	7791.0	100.0
0°-180°	7791.0	100.0



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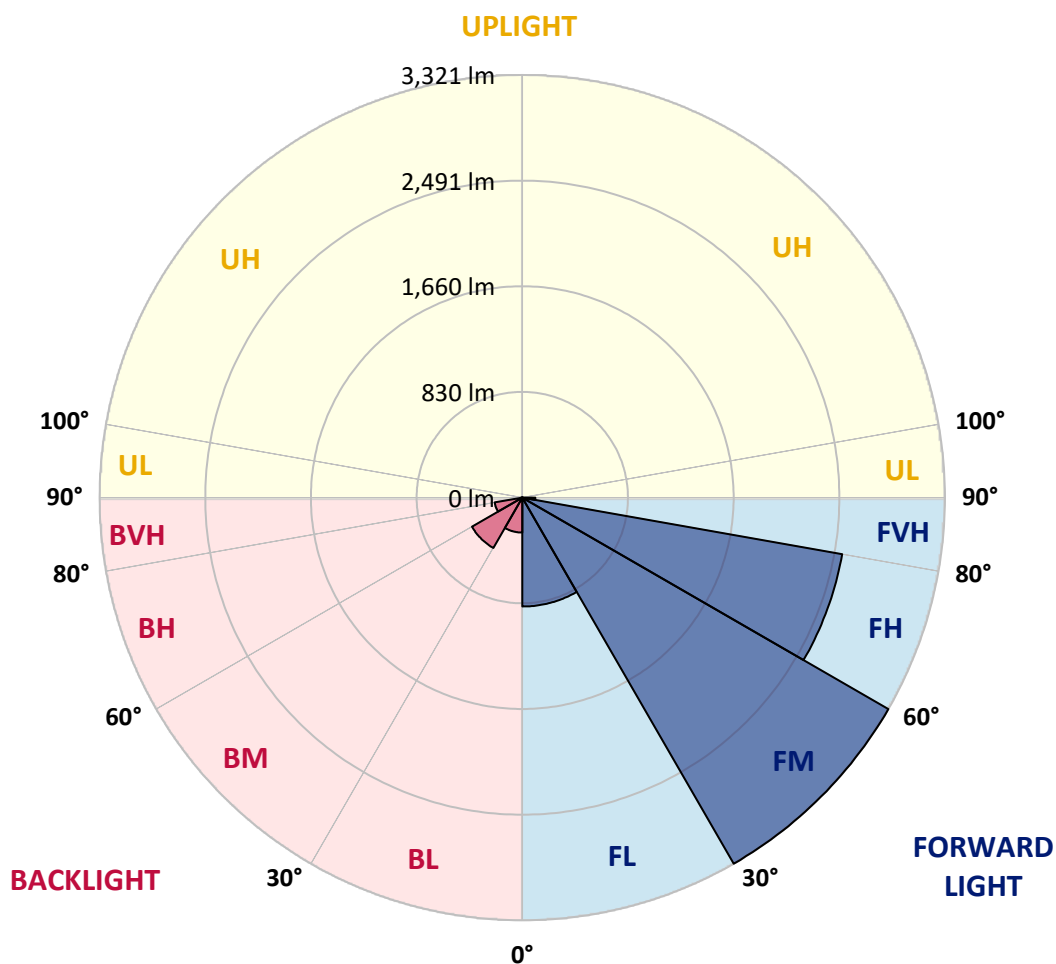
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.0	11.0			
FM (30°-60°)	3320.8	42.6			
FH (60°-80°)	2551.8	32.8			G2/5000
FVH (80°-90°)	102.5	1.3			G2/225
BL (0°-30°)	274.6	3.5	B1/500		
BM (30°-60°)	456.4	5.9	B1/1000		
BH (60°-80°)	220.4	2.8	B1/500		G1/500
BVH (80°-90°)	9.6	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°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2830.9	2818.4	2790.0	2703.6	2628.3	2530.0	2430.5	2352.4	2304.4	2216.1	2175.9
5°	2742.6	2748.6	2666.2	2488.6	2290.8	2155.7	2008.3	1891.0	1761.9	1680.2	1594.3
7.5°	2512.3	2500.4	2411.0	2163.4	1923.0	1727.5	1541.0	1389.4	1294.0	1217.6	1153.7
10°	2315.0	2306.2	2191.9	1873.2	1615.0	1468.7	1342.6	1209.9	1107.5	995.5	906.1
12.5°	2191.3	2171.1	2039.7	1706.8	1496.6	1360.4	1223.0	1085.0	943.4	830.3	721.9
15°	2149.8	2120.8	1974.5	1649.4	1420.8	1247.8	1075.5	916.8	753.9	629.0	547.2
17.5°	2225.0	2177.1	2021.3	1639.3	1330.2	1101.0	888.9	682.3	512.9	417.5	367.2
20°	2397.4	2342.3	2139.7	1629.2	1229.5	936.3	675.7	482.1	354.7	302.6	274.8
22.5°	2653.2	2577.4	2315.0	1645.2	1136.5	775.8	488.0	340.5	281.9	249.3	229.8
25°	2960.6	2897.2	2537.1	1702.1	1063.1	649.7	377.3	278.4	237.5	217.4	202.5
27.5°	3297.6	3196.3	2824.4	1770.2	996.1	552.0	331.1	248.7	211.4	193.1	185.4
30°	3537.4	3458.7	3064.8	1817.6	912.6	478.5	302.6	245.2	212.0	190.1	175.9
32.5°	3774.3	3673.6	3266.2	1839.5	851.6	427.6	261.8	213.8	186.0	174.7	160.5
35°	4027.8	3922.4	3466.9	1827.6	806.0	393.8	237.5	190.7	159.3	140.4	126.1
37.5°	4284.2	4172.9	3666.5	1785.0	777.6	380.2	218.5	181.2	150.4	130.9	115.5
40°	4588.6	4440.0	3853.7	1750.1	748.0	373.1	206.1	175.3	143.9	123.2	107.8
42.5°	4837.4	4695.8	4030.7	1731.7	727.9	356.5	206.1	170.6	139.8	116.7	100.7
45°	5073.1	4926.2	4222.0	1746.5	719.6	335.8	208.5	170.0	136.8	111.9	95.9
47.5°	5270.3	5143.0	4418.7	1802.2	708.9	313.3	196.0	178.3	135.0	107.8	91.2
50°	5503.0	5379.9	4678.7	1914.7	690.0	290.8	180.6	191.9	134.4	104.2	87.1
52.5°	5831.1	5697.9	5037.5	2042.6	659.7	256.4	166.4	190.1	132.1	98.3	82.9
55°	6232.1	6124.3	5453.3	2196.0	618.3	217.9	143.9	168.8	125.0	88.2	75.8
57.5°	6489.1	6397.3	5764.8	2262.3	554.9	178.3	126.7	141.5	114.3	78.8	67.5
59°	6519.3	6436.4	5830.0	2240.4	513.5	162.9	118.4	121.4	111.3	73.4	62.8
60°	6493.9	6408.0	5803.9	2197.8	475.0	152.2	111.3	107.8	111.9	70.5	59.2
62.5°	6330.4	6183.5	5551.0	1981.6	415.2	139.8	98.9	88.2	98.9	63.4	52.7
65°	6014.7	5794.4	5050.6	1677.2	391.5	132.7	84.1	74.0	75.2	55.7	45.6
67.5°	5463.4	5185.6	4384.3	1362.7	381.4	133.3	71.1	66.3	58.0	47.4	40.3
70°	4591.6	4314.4	3517.9	1121.1	376.7	133.3	60.4	56.9	48.6	39.7	34.9
72.5°	3253.7	2955.3	2373.1	880.7	339.4	132.7	51.5	51.5	39.7	33.2	28.4
75°	1838.3	1840.7	1491.8	623.0	281.9	109.6	41.5	40.9	29.0	25.5	21.3
77.5°	1071.4	1052.4	1005.6	267.7	130.9	49.7	29.0	24.9	20.1	18.4	15.4
80°	550.8	453.1	441.2	97.1	46.8	31.4	20.1	14.2	13.0	11.8	10.7
82.5°	162.9	163.5	145.7	39.1	26.1	20.7	10.1	7.7	7.1	6.5	6.5
85°	11.3	7.1	8.3	11.8	16.0	8.3	0.6	1.8	1.8	2.4	3.0
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°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2131.5	2157.5	2108.9	2110.1	2069.9	2082.9	2035.5	2050.9	2023.1	2044.4	2107.2
5°	1603.8	1609.7	1570.6	1558.2	1564.1	1588.4	1597.8	1554.6	1573.0	1536.8	1534.5
7.5°	1130.0	1137.1	1114.6	1111.6	1154.3	1144.2	1162.6	1118.1	1076.1	1094.4	1060.7
10°	877.7	848.1	801.9	788.9	780.6	785.9	785.9	745.6	739.7	723.7	748.0
12.5°	692.9	656.8	613.0	553.7	538.9	537.7	515.8	480.3	469.0	455.4	475.6
15°	503.4	488.6	451.9	418.7	385.0	378.4	342.9	313.9	275.4	270.1	268.3
17.5°	354.2	332.2	331.7	312.7	293.2	280.1	247.0	213.8	199.0	197.2	197.2
20°	265.3	257.6	245.2	242.8	236.9	222.1	192.5	174.7	167.6	168.2	170.6
22.5°	223.3	217.9	206.7	201.4	199.0	186.0	164.0	152.2	148.7	148.7	149.2
25°	199.6	194.8	182.4	174.1	171.2	161.7	144.5	135.6	132.7	132.7	132.7
27.5°	181.8	175.9	162.9	155.8	150.4	139.8	129.1	120.2	117.3	117.3	117.9
30°	169.4	162.9	151.0	141.5	133.3	123.8	114.9	107.2	103.6	103.0	103.6
32.5°	152.8	146.9	135.0	129.1	119.6	108.4	101.3	94.2	90.6	91.2	90.6
35°	119.0	117.3	109.0	110.7	105.4	95.9	89.4	81.7	77.6	77.0	78.2
37.5°	108.4	101.3	91.8	92.4	90.6	87.1	76.4	68.1	65.1	65.1	65.7
40°	100.1	93.0	82.3	77.0	77.6	77.6	66.3	57.4	54.5	53.9	55.1
42.5°	93.0	85.9	74.0	65.1	62.8	65.7	56.3	47.4	44.4	43.2	44.4
45°	88.2	80.5	66.9	56.9	49.7	53.3	46.2	39.1	35.5	35.5	34.9
47.5°	83.5	76.4	61.6	49.2	41.5	39.7	37.9	31.4	27.8	27.2	27.8
50°	79.4	72.3	55.7	42.6	34.9	30.8	30.8	24.9	22.5	21.3	21.9
52.5°	75.2	67.5	50.3	37.9	30.2	24.9	21.9	20.1	18.4	17.8	18.4
55°	69.3	61.6	45.0	32.6	26.1	20.7	17.2	16.6	15.4	14.2	15.4
57.5°	62.2	55.1	39.7	27.8	20.7	16.0	14.2	13.6	12.4	11.8	11.8
59°	58.0	51.5	36.7	24.3	18.4	14.2	13.0	12.4	11.3	10.1	10.7
60°	55.7	50.3	34.9	22.5	16.6	13.0	11.8	11.3	10.1	9.5	10.1
62.5°	49.2	45.0	30.8	18.4	13.0	9.5	8.3	8.9	8.3	7.7	8.3
65°	43.2	39.7	26.1	14.2	10.1	6.5	5.9	7.7	7.1	6.5	7.1
67.5°	38.5	34.3	21.9	10.7	7.1	3.6	4.1	6.5	6.5	5.9	6.5
70°	33.2	29.6	17.8	7.7	3.6	1.8	3.0	4.7	5.9	5.3	5.9
72.5°	27.2	23.1	13.6	5.3	1.8	0.0	1.8	4.1	5.9	5.3	5.9
75°	21.3	17.2	10.1	3.0	0.0	0.0	0.6	3.6	5.9	5.3	5.9
77.5°	15.4	12.4	5.9	0.6	0.0	0.0	0.6	3.6	5.9	5.3	5.9
80°	10.1	8.9	2.4	0.0	0.0	0.0	0.6	3.6	5.9	5.9	6.5
82.5°	6.5	4.7	0.0	0.0	0.0	0.0	1.2	4.7	6.5	7.1	7.1
85°	3.0	0.0	0.0	0.0	0.0	0.0	2.4	5.9	7.7	7.7	7.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.1	7.1	8.9	8.9	8.9
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°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2117.8	2155.1	2207.9	2289.0	2354.7	2458.4	2537.7	2646.1	2755.7	2788.8	2840.4
5°	1558.8	1606.7	1726.4	1835.3	1904.0	2123.2	2261.7	2480.3	2676.3	2770.5	2872.9
7.5°	1082.6	1139.5	1230.7	1382.9	1527.4	1705.6	1929.5	2179.4	2466.7	2601.1	2745.6
10°	759.8	830.9	959.4	1084.4	1266.2	1435.6	1656.5	1932.5	2249.3	2408.0	2589.3
12.5°	479.7	543.1	713.1	853.4	1080.2	1276.9	1480.6	1730.5	2097.7	2260.6	2450.7
15°	274.2	327.5	406.9	586.9	838.6	1098.6	1352.7	1642.9	2020.1	2220.9	2426.4
17.5°	204.3	218.5	254.1	355.9	585.1	888.9	1234.8	1616.2	2072.8	2308.5	2543.1
20°	171.7	181.2	197.8	238.1	373.1	684.6	1119.9	1620.9	2243.4	2539.5	2762.2
22.5°	154.0	159.9	173.5	199.6	254.7	498.7	985.5	1648.8	2450.1	2823.2	3080.2
25°	135.0	142.7	154.6	177.1	212.0	345.9	852.8	1711.0	2739.7	3183.3	3424.9
27.5°	120.2	127.3	139.2	159.9	186.0	264.1	698.2	1764.3	3045.3	3545.7	3743.5
30°	105.4	112.5	124.4	141.0	164.6	213.8	531.8	1795.7	3342.0	3817.5	3969.7
32.5°	93.0	98.9	110.2	125.0	144.5	181.2	419.3	1763.1	3568.8	4064.5	4166.4
35°	80.5	87.7	97.1	110.7	127.9	154.6	348.8	1650.6	3763.7	4318.6	4355.3
37.5°	67.5	75.8	85.9	98.3	111.9	142.1	280.1	1526.2	3972.1	4635.4	4575.0
40°	56.9	64.6	74.0	87.7	100.1	130.3	215.6	1393.5	4197.2	4932.7	4814.9
42.5°	46.2	54.5	65.7	78.2	98.9	113.7	167.0	1256.1	4399.1	5191.5	5031.6
45°	36.7	43.8	55.7	71.7	98.3	97.7	129.1	1120.5	4551.3	5376.3	5193.3
47.5°	29.0	34.9	46.8	69.9	90.6	82.9	103.6	1036.4	4711.2	5542.7	5317.1
50°	23.1	29.0	40.3	72.8	79.4	71.1	87.1	1050.0	4865.8	5627.4	5368.0
52.5°	19.5	25.5	34.9	57.4	61.0	62.2	76.4	1112.8	5065.4	5718.0	5469.3
55°	17.2	22.5	29.6	40.3	47.4	55.7	69.9	1158.4	5332.5	5912.3	5692.6
57.5°	13.6	19.5	26.7	34.3	39.1	48.6	64.6	1162.0	5574.1	6161.6	5989.3
59°	12.4	17.8	24.9	32.6	34.9	43.8	61.0	1131.8	5583.0	6198.9	6125.5
60°	11.3	17.2	23.7	30.2	33.2	41.5	58.0	1096.8	5502.5	6139.7	6181.7
62.5°	9.5	14.8	20.7	24.3	28.4	34.3	50.3	970.1	5112.2	5871.4	6077.5
65°	8.3	13.0	17.8	20.1	23.7	29.6	44.4	776.4	4681.0	5507.8	5779.0
67.5°	7.7	11.8	15.4	17.2	20.7	27.2	39.7	548.4	4122.5	5046.4	5330.7
70°	7.1	11.3	13.6	16.0	18.4	23.1	33.8	319.8	3175.6	4237.4	4537.7
72.5°	7.1	10.7	11.8	13.6	16.0	20.7	31.4	172.9	2171.1	3232.4	3620.3
75°	7.1	10.1	10.7	11.8	14.2	19.0	27.8	90.6	1403.6	2245.8	2771.7
77.5°	7.1	9.5	10.7	11.3	13.6	16.6	24.3	56.9	935.1	1573.0	1873.2
80°	7.7	9.5	10.1	11.3	13.0	15.4	20.1	37.9	549.6	946.4	1140.1
82.5°	8.3	9.5	10.7	11.8	13.6	14.8	17.8	23.7	253.5	626.0	708.3
85°	8.9	10.1	11.3	12.4	14.2	14.8	16.6	17.2	41.5	282.5	382.0
87.5°	9.5	10.7	11.8	13.0	15.4	15.4	15.4	15.4	14.2	30.2	77.0
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°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2905.5	2972.4	3019.2	3031.1	2997.3	2981.9	2939.3	2872.9	2832.7	2830.9
5°	3061.9	3218.8	3327.8	3346.1	3281.0	3170.8	3039.9	2871.2	2772.3	2742.6
7.5°	3035.2	3310.0	3485.3	3510.8	3401.2	3191.0	2937.5	2665.6	2557.9	2512.3
10°	2925.6	3260.8	3511.4	3551.6	3405.4	3109.2	2787.1	2483.8	2350.0	2315.0
12.5°	2832.1	3170.8	3393.5	3449.2	3338.4	3042.9	2697.0	2367.2	2223.8	2191.3
15°	2791.2	3064.2	3200.4	3228.9	3210.5	3001.4	2687.6	2349.4	2185.3	2149.8
17.5°	2832.1	2973.6	2990.8	3019.8	3060.7	2997.3	2778.8	2445.9	2268.9	2225.0
20°	2939.3	2894.8	2823.8	2836.2	2929.8	3014.5	2941.0	2659.7	2444.2	2397.4
22.5°	3121.7	2875.3	2714.2	2703.6	2822.0	3071.9	3179.1	2949.3	2699.4	2653.2
25°	3345.5	2924.5	2673.9	2650.8	2780.0	3156.0	3437.9	3304.1	3031.1	2960.6
27.5°	3589.5	3026.3	2673.9	2651.4	2776.4	3230.6	3659.4	3618.0	3374.6	3297.6
30°	3723.4	3110.4	2712.4	2687.0	2820.2	3273.9	3777.9	3896.9	3632.8	3537.4
32.5°	3843.0	3227.1	2787.6	2739.7	2912.0	3337.8	3883.9	4133.8	3838.3	3774.3
35°	3953.2	3352.0	2891.3	2835.6	3032.8	3425.5	4001.1	4382.5	4124.3	4027.8
37.5°	4074.6	3497.1	3053.0	3005.6	3234.8	3596.0	4140.3	4709.5	4405.6	4284.2
40°	4206.6	3665.3	3318.9	3298.7	3555.8	3789.1	4316.2	5058.3	4726.6	4588.6
42.5°	4341.1	3859.0	3644.6	3677.8	3919.4	4059.8	4496.8	5326.6	4989.6	4837.4
45°	4463.1	4106.6	4068.1	4232.1	4343.4	4323.9	4630.7	5515.5	5218.8	5073.1
47.5°	4617.1	4467.2	4580.3	4833.2	4836.2	4611.1	4732.0	5670.1	5416.0	5270.3
50°	4789.4	4893.0	5241.9	5499.5	5430.2	4893.6	4850.4	5853.1	5619.7	5503.0
52.5°	4989.0	5369.8	5853.1	6139.1	5977.4	5201.6	5047.6	6050.9	5943.1	5831.1
55°	5221.1	5694.9	6462.5	6690.5	6527.6	5584.2	5347.3	6319.1	6308.5	6232.1
57.5°	5483.5	6038.4	6815.4	7124.0	6978.9	6033.1	5766.0	6572.0	6531.8	6489.1
59°	5690.8	6214.9	6971.2	7291.0	7203.4	6347.6	6047.3	6729.6	6583.3	6519.3
60°	5816.3	6334.5	7028.6	7313.5	7293.4	6534.7	6225.6	6806.6	6582.7	6493.9
62.5°	6188.9	6543.6	7006.7	7213.4	7292.2	6893.6	6748.5	6891.2	6460.7	6330.4
65°	6321.5	6474.3	6643.7	6618.2	6685.7	6875.3	7082.5	6798.3	6200.1	6014.7
67.5°	6063.3	5714.5	5774.3	5604.3	5571.2	6112.5	6946.9	6343.4	5690.2	5463.4
70°	5111.0	4377.8	4347.6	4425.8	4211.4	4948.7	6238.0	5467.5	4848.6	4591.6
72.5°	4023.1	3093.8	2839.2	3127.0	3120.5	3775.5	5182.1	3879.7	3275.7	3253.7
75°	3163.7	2154.0	1890.4	1937.2	2027.2	2733.2	4127.3	2463.7	2017.2	1838.3
77.5°	2123.8	1526.2	1423.7	1366.3	1463.4	1754.8	2611.2	1336.1	1131.2	1071.4
80°	1224.1	1108.7	1259.1	1143.0	1195.1	1105.7	1298.8	613.0	508.7	550.8
82.5°	796.6	631.3	672.8	499.8	683.4	689.4	416.9	181.2	153.4	162.9
85°	498.1	296.1	166.4	118.4	235.7	433.5	130.3	11.3	13.0	11.3
87.5°	129.1	49.2	20.7	30.8	37.9	33.8	30.2	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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