

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: P452089

Luminaire Tested: **GALN-SA3A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452089
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-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 8929 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

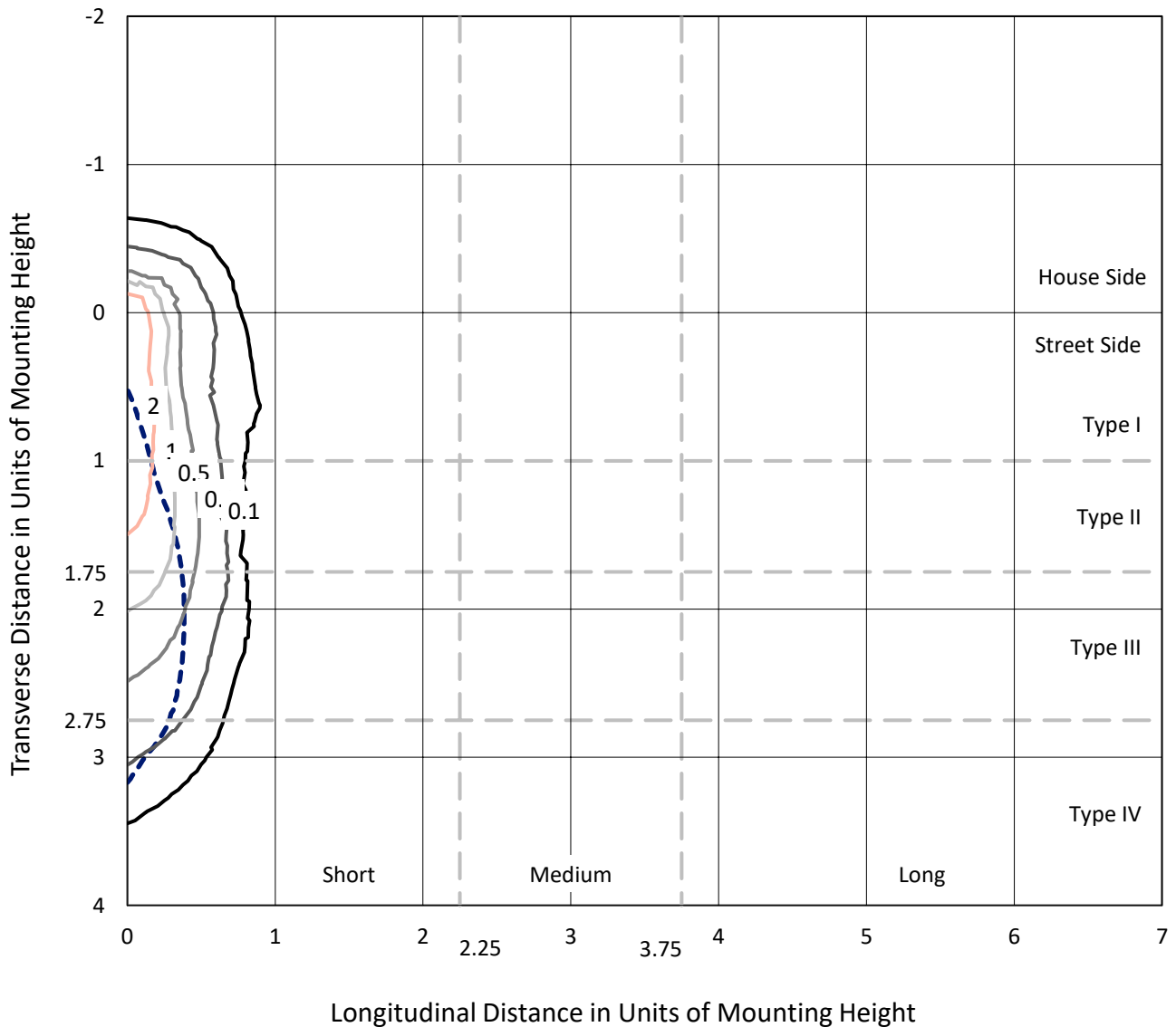
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

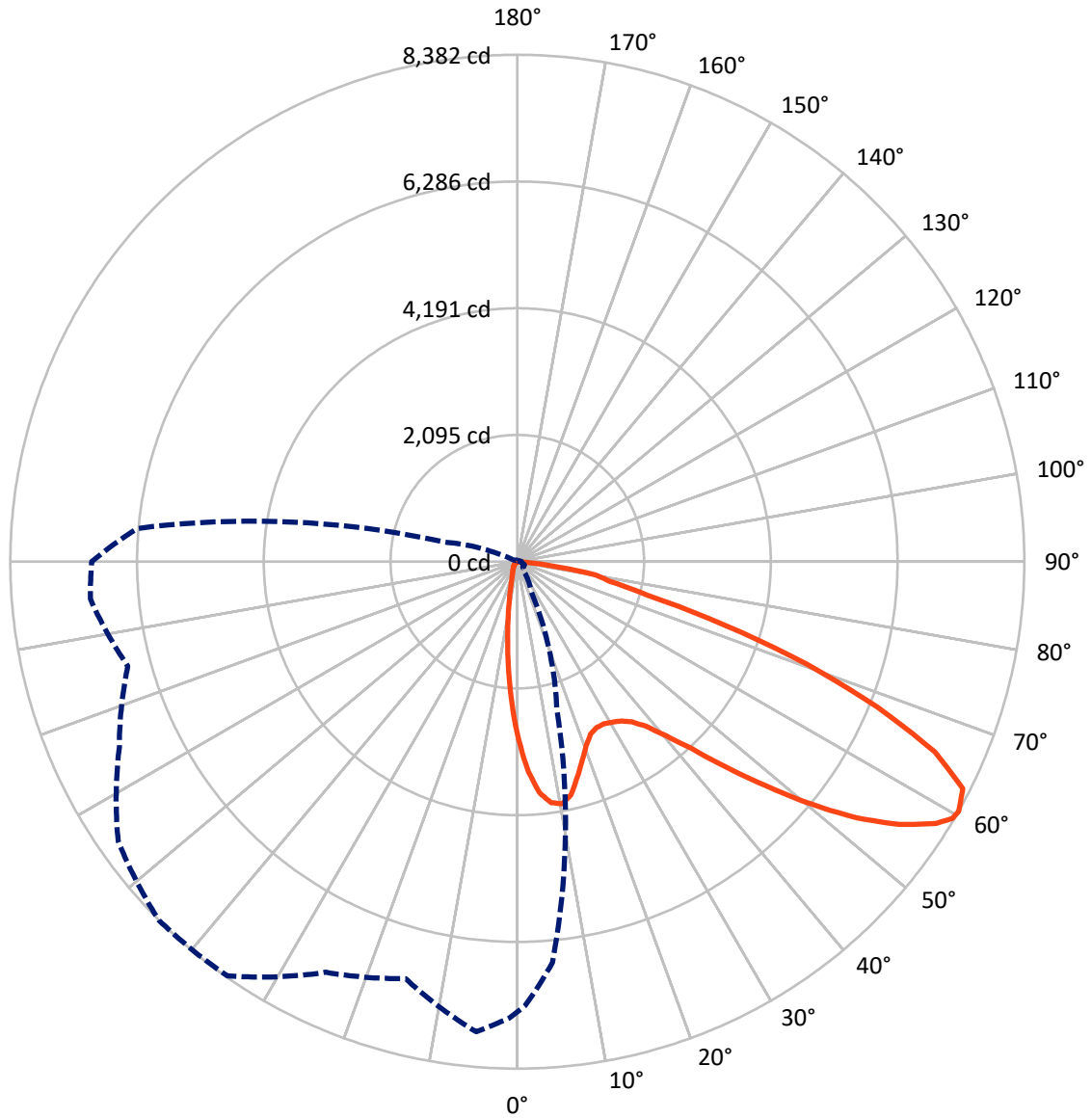
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1101.3	0.0	1101.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7827.7	0.0	7827.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	8929.0	0.0	8929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	2.5
10°-20°	435.9	4.9
20°-30°	639.2	7.2
30°-40°	950.6	10.6
40°-50°	1383.4	15.5
50°-60°	1995.0	22.3
60°-70°	2194.2	24.6
70°-80°	982.8	11.0
80°-90°	128.4	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°	8929.0	100.0
0°-180°	8929.0	100.0

Coefficient of Utilization



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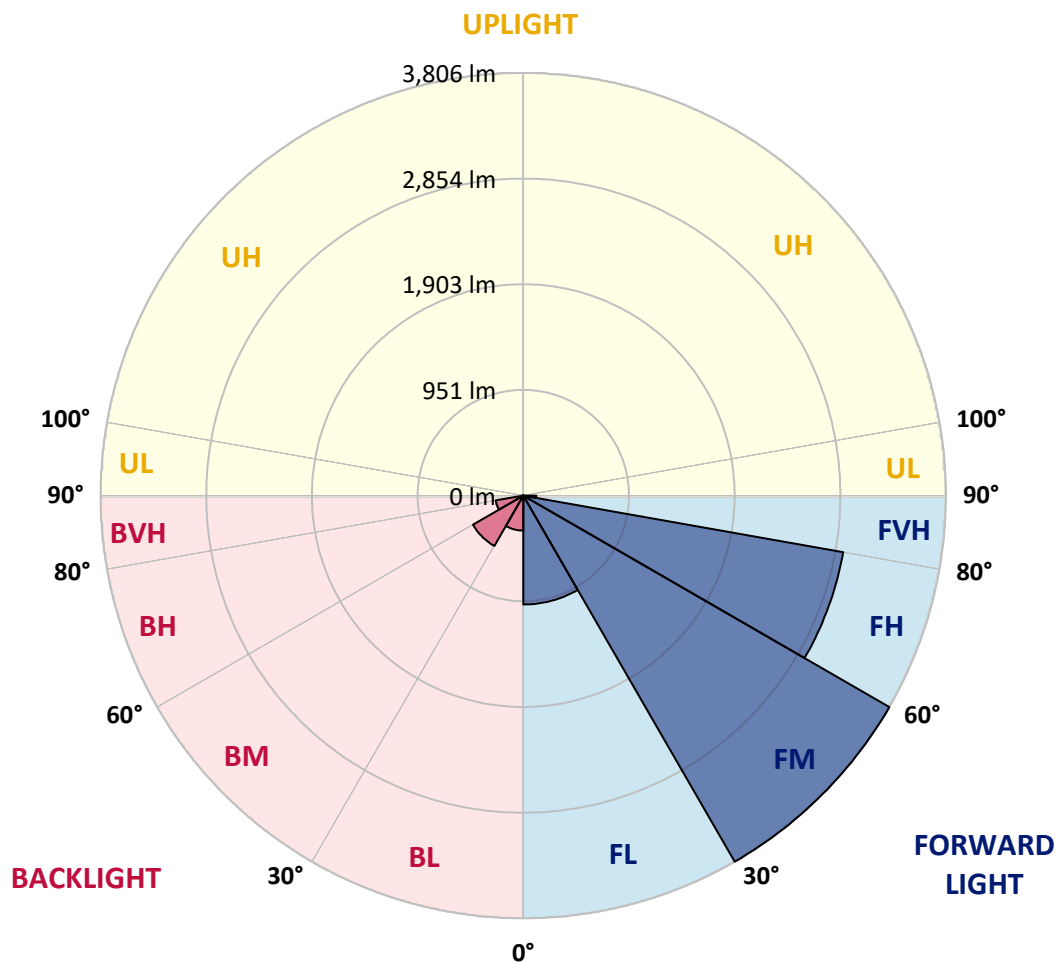
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.9	11.0			
FM (30°-60°)	3805.8	42.6			
FH (60°-80°)	2924.5	32.8			G2/5000
FVH (80°-90°)	117.4	1.3			G2/225
BL (0°-30°)	314.7	3.5	B1/500		
BM (30°-60°)	523.1	5.9	B1/1000		
BH (60°-80°)	252.6	2.8	B1/500		G1/500
BVH (80°-90°)	11.0	0.1			G1/100
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°	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2
2.5°	3244.4	3230.1	3197.5	3098.4	3012.2	2899.6	2785.5	2696.0	2641.0	2539.8	2493.7
5°	3143.2	3150.0	3055.7	2852.1	2625.4	2470.6	2301.6	2167.2	2019.3	1925.6	1827.2
7.5°	2879.2	2865.6	2763.2	2479.4	2203.9	1979.9	1766.1	1592.3	1483.0	1395.5	1322.2
10°	2653.2	2643.0	2512.0	2146.9	1850.9	1683.3	1538.7	1386.7	1269.2	1141.0	1038.5
12.5°	2511.3	2488.3	2337.6	1956.1	1715.2	1559.1	1401.6	1243.5	1081.2	951.6	827.4
15°	2463.8	2430.6	2262.9	1890.3	1628.3	1430.1	1232.6	1050.7	864.0	720.8	627.2
17.5°	2550.0	2495.0	2316.5	1878.8	1524.5	1261.8	1018.8	781.9	587.8	478.5	420.8
20°	2747.5	2684.4	2452.3	1867.2	1409.1	1073.1	774.4	552.5	406.6	346.8	314.9
22.5°	3040.8	2953.9	2653.2	1885.5	1302.5	889.1	559.3	390.3	323.1	285.7	263.4
25°	3393.0	3320.4	2907.7	1950.7	1218.3	744.6	432.4	319.0	272.2	249.1	232.1
27.5°	3779.2	3663.2	3236.9	2028.8	1141.6	632.6	379.4	285.1	242.3	221.3	212.4
30°	4054.1	3963.8	3512.5	2083.1	1045.9	548.4	346.8	281.0	243.0	217.9	201.6
32.5°	4325.6	4210.2	3743.3	2108.2	976.0	490.1	300.0	245.0	213.1	200.2	183.9
35°	4616.1	4495.3	3973.3	2094.6	923.8	451.4	272.2	218.6	182.6	160.9	144.6
37.5°	4910.0	4782.4	4202.1	2045.7	891.2	435.8	250.5	207.7	172.4	150.0	132.4
40°	5258.9	5088.5	4416.6	2005.7	857.2	427.6	236.2	200.9	164.9	141.2	123.5
42.5°	5543.9	5381.7	4619.5	1984.6	834.2	408.6	236.2	195.5	160.2	133.7	115.4
45°	5814.1	5645.8	4838.7	2001.6	824.7	384.8	238.9	194.8	156.8	128.3	110.0
47.5°	6040.1	5894.2	5064.1	2065.4	812.5	359.1	224.7	204.3	154.8	123.5	104.5
50°	6306.9	6165.7	5362.0	2194.4	790.7	333.3	207.0	219.9	154.1	119.5	99.8
52.5°	6682.9	6530.2	5773.4	2341.0	756.1	293.9	190.7	217.9	151.4	112.7	95.0
55°	7142.4	7018.9	6249.8	2516.8	708.6	249.8	164.9	193.4	143.2	101.1	86.9
57.5°	7437.0	7331.8	6606.9	2592.8	636.0	204.3	145.3	162.2	131.0	90.3	77.4
59°	7471.6	7376.5	6681.5	2567.7	588.5	186.7	135.7	139.1	127.6	84.2	71.9
60°	7442.4	7344.0	6651.7	2518.8	544.3	174.4	127.6	123.5	128.3	80.8	67.9
62.5°	7255.1	7086.7	6361.8	2271.1	475.8	160.2	113.3	101.1	113.3	72.6	60.4
65°	6893.3	6640.8	5788.3	1922.2	448.6	152.0	96.4	84.8	86.2	63.8	52.3
67.5°	6261.4	5943.0	5024.7	1561.8	437.1	152.7	81.4	76.0	66.5	54.3	46.2
70°	5262.3	4944.6	4031.7	1284.9	431.7	152.7	69.2	65.2	55.7	45.5	40.0
72.5°	3729.0	3386.9	2719.7	1009.3	388.9	152.0	59.1	59.1	45.5	38.0	32.6
75°	2106.8	2109.5	1709.7	714.0	323.1	125.6	47.5	46.8	33.3	29.2	24.4
77.5°	1227.8	1206.1	1152.5	306.8	150.0	57.0	33.3	28.5	23.1	21.0	17.6
80°	631.2	519.2	505.7	111.3	53.6	36.0	23.1	16.3	14.9	13.6	12.2
82.5°	186.7	187.3	167.0	44.8	29.9	23.8	11.5	8.8	8.1	7.5	7.5
85°	12.9	8.1	9.5	13.6	18.3	9.5	0.7	2.0	2.0	2.7	3.4
87.5°	1.4	0.7	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°	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2
2.5°	2442.8	2472.7	2417.0	2418.4	2372.2	2387.1	2332.8	2350.5	2318.6	2343.0	2415.0
5°	1838.0	1844.8	1800.0	1785.8	1792.6	1820.4	1831.2	1781.7	1802.7	1761.3	1758.6
7.5°	1295.0	1303.2	1277.4	1274.0	1322.9	1311.3	1332.4	1281.5	1233.3	1254.3	1215.6
10°	1005.9	972.0	919.0	904.1	894.6	900.7	900.7	854.5	847.7	829.4	857.2
12.5°	794.1	752.7	702.5	634.6	617.7	616.3	591.2	550.5	537.6	522.0	545.0
15°	576.9	560.0	517.9	479.9	441.2	433.7	393.0	359.7	315.6	309.5	307.5
17.5°	405.9	380.8	380.1	358.4	336.0	321.0	283.0	245.0	228.1	226.0	226.0
20°	304.1	295.3	281.0	278.3	271.5	254.5	220.6	200.2	192.1	192.8	195.5
22.5°	255.9	249.8	236.9	230.8	228.1	213.1	188.0	174.4	170.4	170.4	171.0
25°	228.7	223.3	209.1	199.5	196.2	185.3	165.6	155.4	152.0	152.0	152.0
27.5°	208.4	201.6	186.7	178.5	172.4	160.2	148.0	137.8	134.4	134.4	135.1
30°	194.1	186.7	173.1	162.2	152.7	141.9	131.7	122.9	118.8	118.1	118.8
32.5°	175.1	168.3	154.8	148.0	137.1	124.2	116.1	107.9	103.8	104.5	103.8
35°	136.4	134.4	124.9	126.9	120.8	110.0	102.5	93.7	88.9	88.2	89.6
37.5°	124.2	116.1	105.2	105.9	103.8	99.8	87.6	78.1	74.7	74.7	75.3
40°	114.7	106.6	94.3	88.2	88.9	88.9	76.0	65.8	62.4	61.8	63.1
42.5°	106.6	98.4	84.8	74.7	71.9	75.3	64.5	54.3	50.9	49.5	50.9
45°	101.1	92.3	76.7	65.2	57.0	61.1	52.9	44.8	40.7	40.7	40.0
47.5°	95.7	87.6	70.6	56.3	47.5	45.5	43.4	36.0	31.9	31.2	31.9
50°	91.0	82.8	63.8	48.9	40.0	35.3	35.3	28.5	25.8	24.4	25.1
52.5°	86.2	77.4	57.7	43.4	34.6	28.5	25.1	23.1	21.0	20.4	21.0
55°	79.4	70.6	51.6	37.3	29.9	23.8	19.7	19.0	17.6	16.3	17.6
57.5°	71.3	63.1	45.5	31.9	23.8	18.3	16.3	15.6	14.3	13.6	13.6
59°	66.5	59.1	42.1	27.8	21.0	16.3	14.9	14.3	12.9	11.5	12.2
60°	63.8	57.7	40.0	25.8	19.0	14.9	13.6	12.9	11.5	10.9	11.5
62.5°	56.3	51.6	35.3	21.0	14.9	10.9	9.5	10.2	9.5	8.8	9.5
65°	49.5	45.5	29.9	16.3	11.5	7.5	6.8	8.8	8.1	7.5	8.1
67.5°	44.1	39.4	25.1	12.2	8.1	4.1	4.8	7.5	7.5	6.8	7.5
70°	38.0	33.9	20.4	8.8	4.1	2.0	3.4	5.4	6.8	6.1	6.8
72.5°	31.2	26.5	15.6	6.1	2.0	0.0	2.0	4.8	6.8	6.1	6.8
75°	24.4	19.7	11.5	3.4	0.0	0.0	0.7	4.1	6.8	6.1	6.8
77.5°	17.6	14.3	6.8	0.7	0.0	0.0	0.7	4.1	6.8	6.1	6.8
80°	11.5	10.2	2.7	0.0	0.0	0.0	0.7	4.1	6.8	6.8	7.5
82.5°	7.5	5.4	0.0	0.0	0.0	0.0	1.4	5.4	7.5	8.1	8.1
85°	3.4	0.0	0.0	0.0	0.0	0.0	2.7	6.8	8.8	8.8	8.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.8	8.1	10.2	10.2	10.2
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°	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2
2.5°	2427.2	2469.9	2530.3	2623.3	2698.7	2817.5	2908.4	3032.6	3158.2	3196.2	3255.2
5°	1786.4	1841.4	1978.5	2103.4	2182.1	2433.3	2592.1	2842.6	3067.2	3175.1	3292.6
7.5°	1240.7	1305.9	1410.4	1584.9	1750.5	1954.8	2211.3	2497.8	2827.0	2981.0	3146.6
10°	870.8	952.3	1099.6	1242.8	1451.1	1645.3	1898.4	2214.7	2577.9	2759.8	2967.5
12.5°	549.8	622.4	817.2	978.1	1238.0	1463.4	1696.9	1983.3	2404.1	2590.8	2808.6
15°	314.3	375.3	466.3	672.6	961.1	1259.1	1550.2	1882.8	2315.2	2545.3	2780.8
17.5°	234.2	250.5	291.2	407.9	670.6	1018.8	1415.2	1852.3	2375.6	2645.7	2914.5
20°	196.8	207.7	226.7	272.9	427.6	784.6	1283.5	1857.7	2571.1	2910.4	3165.6
22.5°	176.5	183.3	198.9	228.7	291.9	571.5	1129.4	1889.6	2807.9	3235.6	3530.1
25°	154.8	163.6	177.2	202.9	243.0	396.4	977.4	1960.9	3139.9	3648.2	3925.2
27.5°	137.8	145.9	159.5	183.3	213.1	302.7	800.2	2022.0	3490.1	4063.6	4290.3
30°	120.8	129.0	142.5	161.5	188.7	245.0	609.5	2057.9	3830.1	4375.2	4549.6
32.5°	106.6	113.3	126.2	143.2	165.6	207.7	480.5	2020.6	4090.1	4658.2	4774.9
35°	92.3	100.5	111.3	126.9	146.6	177.2	399.8	1891.6	4313.4	4949.4	4991.5
37.5°	77.4	86.9	98.4	112.7	128.3	162.9	321.0	1749.1	4552.3	5312.5	5243.3
40°	65.2	74.0	84.8	100.5	114.7	149.3	247.1	1597.1	4810.2	5653.2	5518.2
42.5°	52.9	62.4	75.3	89.6	113.3	130.3	191.4	1439.6	5041.7	5949.8	5766.6
45°	42.1	50.2	63.8	82.1	112.7	112.0	148.0	1284.2	5216.1	6161.6	5951.9
47.5°	33.3	40.0	53.6	80.1	103.8	95.0	118.8	1187.8	5399.4	6352.3	6093.7
50°	26.5	33.3	46.2	83.5	91.0	81.4	99.8	1203.4	5576.5	6449.4	6152.1
52.5°	22.4	29.2	40.0	65.8	69.9	71.3	87.6	1275.4	5805.3	6553.2	6268.2
55°	19.7	25.8	33.9	46.2	54.3	63.8	80.1	1327.6	6111.4	6775.9	6524.1
57.5°	15.6	22.4	30.5	39.4	44.8	55.7	74.0	1331.7	6388.3	7061.6	6864.1
59°	14.3	20.4	28.5	37.3	40.0	50.2	69.9	1297.1	6398.5	7104.4	7020.2
60°	12.9	19.7	27.1	34.6	38.0	47.5	66.5	1257.0	6306.2	7036.5	7084.7
62.5°	10.9	17.0	23.8	27.8	32.6	39.4	57.7	1111.8	5858.9	6729.0	6965.2
65°	9.5	14.9	20.4	23.1	27.1	33.9	50.9	889.8	5364.8	6312.3	6623.1
67.5°	8.8	13.6	17.6	19.7	23.8	31.2	45.5	628.5	4724.7	5783.5	6109.3
70°	8.1	12.9	15.6	18.3	21.0	26.5	38.7	366.5	3639.4	4856.4	5200.5
72.5°	8.1	12.2	13.6	15.6	18.3	23.8	36.0	198.2	2488.3	3704.6	4149.1
75°	8.1	11.5	12.2	13.6	16.3	21.7	31.9	103.8	1608.6	2573.8	3176.5
77.5°	8.1	10.9	12.2	12.9	15.6	19.0	27.8	65.2	1071.7	1802.7	2146.9
80°	8.8	10.9	11.5	12.9	14.9	17.6	23.1	43.4	629.9	1084.6	1306.6
82.5°	9.5	10.9	12.2	13.6	15.6	17.0	20.4	27.1	290.5	717.4	811.8
85°	10.2	11.5	12.9	14.3	16.3	17.0	19.0	19.7	47.5	323.8	437.8
87.5°	10.9	12.2	13.6	14.9	17.6	17.6	17.6	17.6	16.3	34.6	88.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2
2.5°	3329.9	3406.6	3460.2	3473.8	3435.1	3417.5	3368.6	3292.6	3246.4	3244.4
5°	3509.1	3689.0	3813.8	3834.9	3760.2	3634.0	3484.0	3290.5	3177.2	3143.2
7.5°	3478.5	3793.5	3994.4	4023.6	3898.0	3657.1	3366.6	3055.0	2931.5	2879.2
10°	3353.0	3737.1	4024.3	4070.4	3902.8	3563.4	3194.2	2846.6	2693.2	2653.2
12.5°	3245.7	3634.0	3889.2	3953.0	3826.1	3487.4	3091.0	2712.9	2548.7	2511.3
15°	3198.9	3511.8	3667.9	3700.5	3679.5	3439.9	3080.1	2692.6	2504.6	2463.8
17.5°	3245.7	3408.0	3427.6	3460.9	3507.7	3435.1	3184.6	2803.2	2600.3	2550.0
20°	3368.6	3317.7	3236.2	3250.5	3357.7	3454.8	3370.6	3048.2	2801.2	2747.5
22.5°	3577.6	3295.3	3110.7	3098.4	3234.2	3520.6	3643.5	3380.1	3093.7	3040.8
25°	3834.2	3351.6	3064.5	3038.0	3186.0	3617.0	3940.1	3786.7	3473.8	3393.0
27.5°	4113.8	3468.4	3064.5	3038.7	3181.9	3702.5	4193.9	4146.4	3867.5	3779.2
30°	4267.2	3564.7	3108.6	3079.4	3232.2	3752.1	4329.7	4466.1	4163.4	4054.1
32.5°	4404.3	3698.5	3194.8	3139.9	3337.4	3825.4	4451.2	4737.6	4398.9	4325.6
35°	4530.6	3841.7	3313.6	3249.8	3475.8	3925.8	4585.6	5022.7	4726.7	4616.1
37.5°	4669.7	4008.0	3498.9	3444.6	3707.3	4121.3	4745.1	5397.3	5049.1	4910.0
40°	4821.1	4200.7	3803.7	3780.6	4075.2	4342.6	4946.7	5797.1	5417.0	5258.9
42.5°	4975.2	4422.7	4177.0	4215.0	4491.9	4652.8	5153.7	6104.6	5718.4	5543.9
45°	5115.0	4706.4	4662.3	4850.3	4977.9	4955.5	5307.1	6321.1	5981.1	5814.1
47.5°	5291.5	5119.7	5249.4	5539.2	5542.6	5284.7	5423.1	6498.3	6207.1	6040.1
50°	5489.0	5607.8	6007.5	6302.8	6223.4	5608.4	5558.9	6708.0	6440.6	6306.9
52.5°	5717.7	6154.1	6708.0	7035.8	6850.5	5961.4	5784.9	6934.7	6811.2	6682.9
55°	5983.8	6526.8	7406.4	7667.7	7481.1	6399.8	6128.3	7242.2	7229.9	7142.4
57.5°	6284.5	6920.4	7810.9	8164.6	7998.3	6914.3	6608.2	7532.0	7485.8	7437.0
59°	6522.0	7122.7	7989.5	8356.0	8255.5	7274.7	6930.6	7712.5	7544.9	7471.6
60°	6665.9	7259.8	8055.3	8381.8	8358.7	7489.2	7134.9	7800.8	7544.2	7442.4
62.5°	7092.8	7499.4	8030.2	8267.1	8357.3	7900.5	7734.2	7897.8	7404.4	7255.1
65°	7244.9	7420.0	7614.1	7584.9	7662.3	7879.5	8117.1	7791.3	7105.7	6893.3
67.5°	6948.9	6549.2	6617.7	6422.9	6384.9	7005.3	7961.6	7270.0	6521.3	6261.4
70°	5857.5	5017.2	4982.6	5072.2	4826.5	5671.6	7149.2	6266.1	5556.8	5262.3
72.5°	4610.7	3545.7	3253.9	3583.7	3576.3	4327.0	5939.0	4446.4	3754.1	3729.0
75°	3625.8	2468.6	2166.5	2220.2	2323.3	3132.4	4730.1	2823.6	2311.8	2106.8
77.5°	2434.0	1749.1	1631.7	1565.9	1677.2	2011.1	2992.6	1531.2	1296.4	1227.8
80°	1403.0	1270.6	1443.0	1310.0	1369.7	1267.2	1488.5	702.5	583.0	631.2
82.5°	912.9	723.5	771.0	572.9	783.3	790.1	477.8	207.7	175.8	186.7
85°	570.8	339.4	190.7	135.7	270.1	496.8	149.3	12.9	14.9	12.9
87.5°	148.0	56.3	23.8	35.3	43.4	38.7	34.6	2.0	0.7	1.4
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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