

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: P458759

Luminaire Tested: **GALN-SA3A-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458759
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-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 9133 lumens
Efficiency: N/A
Efficacy: 98.2 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 (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

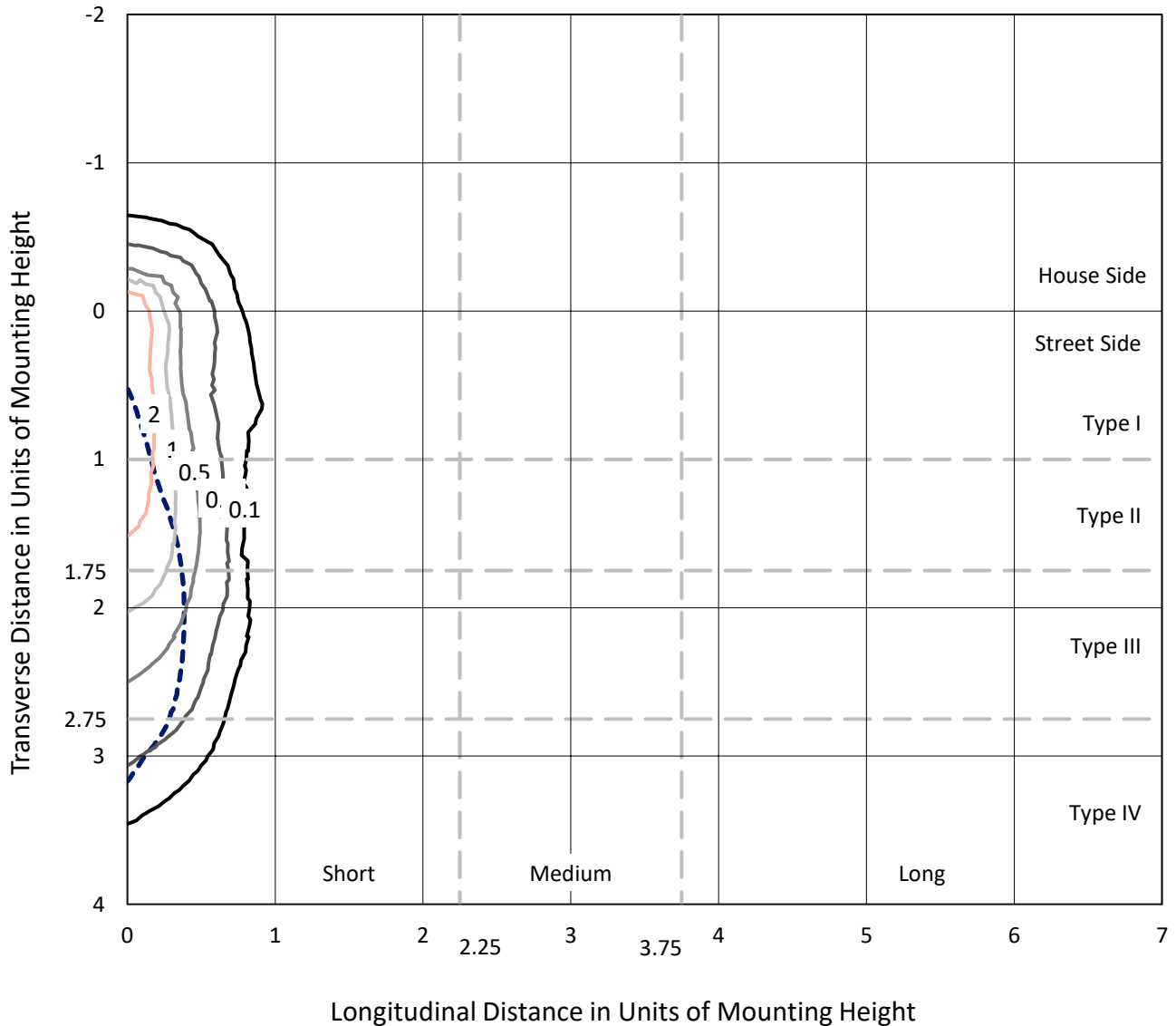




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Iso-Footcandle Lines of Horizontal Illumination

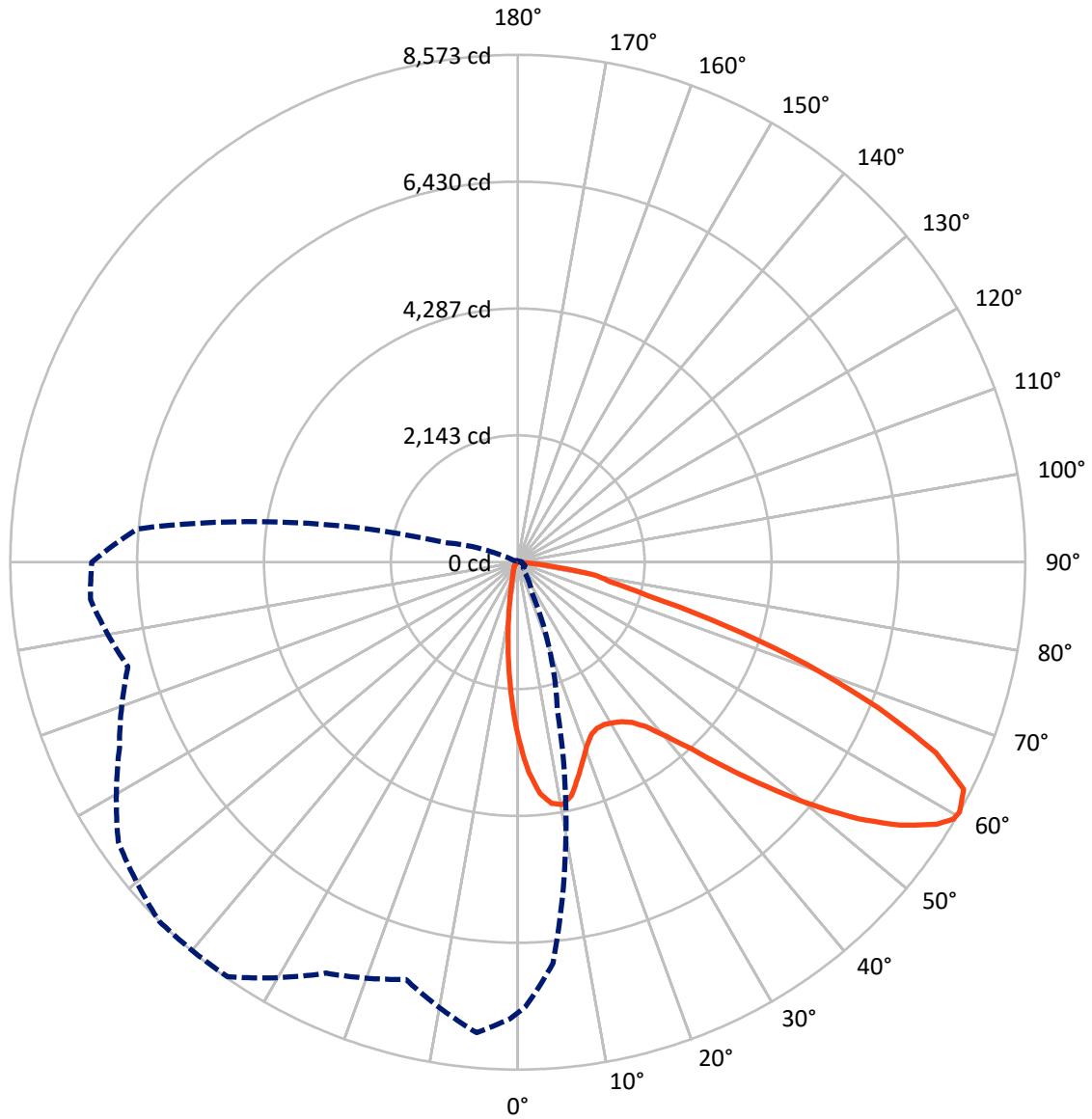
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type 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	1126.5	0.0	1126.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8006.5	0.0	8006.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	9133.0	0.0	9133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	2.5
10°-20°	445.9	4.9
20°-30°	653.8	7.2
30°-40°	972.3	10.6
40°-50°	1415.0	15.5
50°-60°	2040.5	22.3
60°-70°	2244.4	24.6
70°-80°	1005.3	11.0
80°-90°	131.4	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°	9133.0	100.0
0°-180°	9133.0	100.0

Coefficient of Utilization



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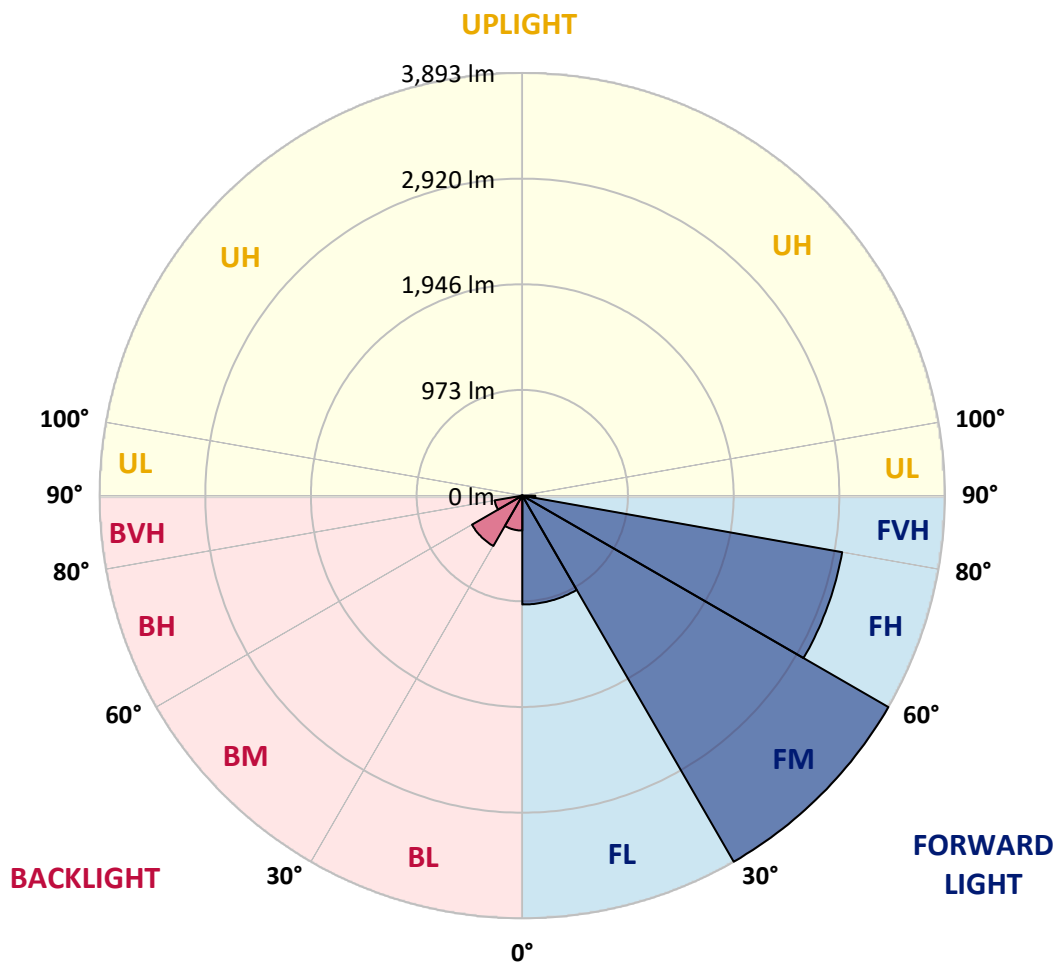
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.3	11.0			
FM (30°-60°)	3892.8	42.6			
FH (60°-80°)	2991.3	32.8			G2/5000
FVH (80°-90°)	120.1	1.3			G2/225
BL (0°-30°)	321.9	3.5	B1/500		
BM (30°-60°)	535.0	5.9	B1/1000		
BH (60°-80°)	258.3	2.8	B1/500		G1/500
BVH (80°-90°)	11.2	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°	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6
2.5°	3318.5	3303.9	3270.6	3169.2	3081.1	2965.8	2849.2	2757.6	2701.3	2597.9	2550.7
5°	3215.1	3222.0	3125.5	2917.2	2685.3	2527.1	2354.2	2216.7	2065.4	1969.6	1868.9
7.5°	2945.0	2931.1	2826.3	2536.1	2254.2	2025.1	1806.4	1628.7	1516.9	1427.4	1352.4
10°	2713.8	2703.4	2569.4	2195.9	1893.2	1721.7	1573.9	1418.3	1298.2	1167.0	1062.2
12.5°	2568.7	2545.1	2391.0	2000.8	1754.4	1594.7	1433.6	1271.9	1105.9	973.3	846.3
15°	2520.1	2486.1	2314.6	1933.5	1665.5	1462.8	1260.8	1074.7	883.8	737.3	641.5
17.5°	2608.3	2552.1	2369.5	1921.7	1559.3	1290.6	1042.1	799.8	601.2	489.4	430.4
20°	2810.3	2745.7	2508.3	1909.9	1441.3	1097.6	792.1	565.1	415.9	354.8	322.1
22.5°	3110.2	3021.4	2713.8	1928.6	1332.3	909.5	572.1	399.2	330.5	292.3	269.4
25°	3470.5	3396.3	2974.2	1995.3	1246.2	761.6	442.2	326.3	278.4	254.8	237.4
27.5°	3865.6	3746.9	3310.9	2075.1	1167.7	647.0	388.1	291.6	247.8	226.3	217.3
30°	4146.7	4054.4	3592.7	2130.6	1069.8	561.0	354.8	287.4	248.5	222.9	206.2
32.5°	4424.4	4306.4	3828.8	2156.3	998.3	501.2	306.9	250.6	218.0	204.8	188.1
35°	4721.6	4598.0	4064.1	2142.4	944.9	461.7	278.4	223.5	186.8	164.5	147.9
37.5°	5022.2	4891.7	4298.1	2092.5	911.5	445.7	256.2	212.4	176.3	153.4	135.4
40°	5379.0	5204.8	4517.5	2051.5	876.8	437.4	241.6	205.5	168.7	144.4	126.4
42.5°	5670.6	5504.7	4725.0	2030.0	853.2	417.9	241.6	199.9	163.8	136.8	118.0
45°	5946.9	5774.7	4949.3	2047.3	843.5	393.6	244.4	199.2	160.4	131.2	112.5
47.5°	6178.1	6028.8	5179.8	2112.6	831.0	367.3	229.8	209.0	158.3	126.4	106.9
50°	6450.9	6306.5	5484.6	2244.5	808.8	340.9	211.7	224.9	157.6	122.2	102.1
52.5°	6835.6	6679.4	5905.3	2394.5	773.4	300.6	195.1	222.9	154.8	115.2	97.2
55°	7305.6	7179.2	6392.6	2574.3	724.8	255.5	168.7	197.9	146.5	103.4	88.9
57.5°	7606.9	7499.3	6757.8	2652.0	650.5	209.0	148.6	165.9	134.0	92.3	79.1
59°	7642.3	7545.1	6834.2	2626.3	601.9	190.9	138.8	142.3	130.5	86.1	73.6
60°	7612.4	7511.8	6803.6	2576.4	556.8	178.4	130.5	126.4	131.2	82.6	69.4
62.5°	7420.8	7248.6	6507.2	2323.0	486.7	163.8	115.9	103.4	115.9	74.3	61.8
65°	7050.8	6792.5	5920.5	1966.1	458.9	155.5	98.6	86.8	88.2	65.3	53.5
67.5°	6404.4	6078.8	5139.5	1597.5	447.1	156.2	83.3	77.8	68.0	55.5	47.2
70°	5382.5	5057.6	4123.8	1314.2	441.5	156.2	70.8	66.6	56.9	46.5	41.0
72.5°	3814.2	3464.3	2781.8	1032.3	397.8	155.5	60.4	60.4	46.5	38.9	33.3
75°	2154.9	2157.7	1748.8	730.3	330.5	128.4	48.6	47.9	34.0	29.9	25.0
77.5°	1255.9	1233.7	1178.8	313.8	153.4	58.3	34.0	29.2	23.6	21.5	18.1
80°	645.6	531.1	517.2	113.9	54.8	36.8	23.6	16.7	15.3	13.9	12.5
82.5°	190.9	191.6	170.8	45.8	30.5	24.3	11.8	9.0	8.3	7.6	7.6
85°	13.2	8.3	9.7	13.9	18.7	9.7	0.7	2.1	2.1	2.8	3.5
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°	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6
2.5°	2498.6	2529.1	2472.2	2473.6	2426.4	2441.7	2386.1	2404.2	2371.5	2396.5	2470.1
5°	1880.0	1887.0	1841.1	1826.6	1833.5	1862.0	1873.1	1822.4	1843.9	1801.6	1798.8
7.5°	1324.6	1333.0	1306.6	1303.1	1353.1	1341.3	1362.8	1310.7	1261.4	1283.0	1243.4
10°	1028.9	994.2	940.0	924.7	915.0	921.3	921.3	874.1	867.1	848.4	876.8
12.5°	812.3	769.9	718.5	649.1	631.8	630.4	604.7	563.0	549.8	533.9	557.5
15°	590.1	572.8	529.7	490.8	451.3	443.6	402.0	368.0	322.8	316.6	314.5
17.5°	415.2	389.5	388.8	366.6	343.7	328.4	289.5	250.6	233.3	231.2	231.2
20°	311.0	302.0	287.4	284.6	277.7	260.3	225.6	204.8	196.5	197.2	199.9
22.5°	261.7	255.5	242.3	236.0	233.3	218.0	192.3	178.4	174.3	174.3	175.0
25°	234.0	228.4	213.8	204.1	200.6	189.5	169.4	159.0	155.5	155.5	155.5
27.5°	213.1	206.2	190.9	182.6	176.3	163.8	151.3	140.9	137.5	137.5	138.2
30°	198.6	190.9	177.0	165.9	156.2	145.1	134.7	125.7	121.5	120.8	121.5
32.5°	179.1	172.2	158.3	151.3	140.2	127.0	118.7	110.4	106.2	106.9	106.2
35°	139.5	137.5	127.7	129.8	123.6	112.5	104.8	95.8	90.9	90.3	91.6
37.5°	127.0	118.7	107.6	108.3	106.2	102.1	89.6	79.8	76.4	76.4	77.1
40°	117.3	109.0	96.5	90.3	90.9	90.9	77.8	67.3	63.9	63.2	64.6
42.5°	109.0	100.7	86.8	76.4	73.6	77.1	66.0	55.5	52.1	50.7	52.1
45°	103.4	94.4	78.4	66.6	58.3	62.5	54.2	45.8	41.7	41.7	41.0
47.5°	97.9	89.6	72.2	57.6	48.6	46.5	44.4	36.8	32.6	31.9	32.6
50°	93.0	84.7	65.3	50.0	41.0	36.1	36.1	29.2	26.4	25.0	25.7
52.5°	88.2	79.1	59.0	44.4	35.4	29.2	25.7	23.6	21.5	20.8	21.5
55°	81.2	72.2	52.8	38.2	30.5	24.3	20.1	19.4	18.1	16.7	18.1
57.5°	72.9	64.6	46.5	32.6	24.3	18.7	16.7	16.0	14.6	13.9	13.9
59°	68.0	60.4	43.0	28.5	21.5	16.7	15.3	14.6	13.2	11.8	12.5
60°	65.3	59.0	41.0	26.4	19.4	15.3	13.9	13.2	11.8	11.1	11.8
62.5°	57.6	52.8	36.1	21.5	15.3	11.1	9.7	10.4	9.7	9.0	9.7
65°	50.7	46.5	30.5	16.7	11.8	7.6	6.9	9.0	8.3	7.6	8.3
67.5°	45.1	40.3	25.7	12.5	8.3	4.2	4.9	7.6	7.6	6.9	7.6
70°	38.9	34.7	20.8	9.0	4.2	2.1	3.5	5.6	6.9	6.2	6.9
72.5°	31.9	27.1	16.0	6.2	2.1	0.0	2.1	4.9	6.9	6.2	6.9
75°	25.0	20.1	11.8	3.5	0.0	0.0	0.7	4.2	6.9	6.2	6.9
77.5°	18.1	14.6	6.9	0.7	0.0	0.0	0.7	4.2	6.9	6.2	6.9
80°	11.8	10.4	2.8	0.0	0.0	0.0	0.7	4.2	6.9	6.9	7.6
82.5°	7.6	5.6	0.0	0.0	0.0	0.0	1.4	5.6	7.6	8.3	8.3
85°	3.5	0.0	0.0	0.0	0.0	0.0	2.8	6.9	9.0	9.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.9	8.3	10.4	10.4	10.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6
2.5°	2482.6	2526.4	2588.2	2683.3	2760.3	2881.8	2974.8	3101.9	3230.3	3269.2	3329.6
5°	1827.3	1883.5	2023.7	2151.5	2232.0	2488.9	2651.3	2907.5	3137.3	3247.7	3367.8
7.5°	1269.1	1335.7	1442.6	1621.1	1790.5	1999.4	2261.9	2554.8	2891.5	3049.1	3218.5
10°	890.7	974.0	1124.7	1271.2	1484.3	1682.9	1941.8	2265.3	2636.8	2822.8	3035.2
12.5°	562.3	636.6	835.9	1000.4	1266.3	1496.8	1735.6	2028.6	2459.0	2649.9	2872.8
15°	321.4	383.9	476.9	688.0	983.1	1287.8	1585.7	1925.8	2368.1	2603.4	2844.3
17.5°	239.5	256.2	297.8	417.2	685.9	1042.1	1447.5	1894.6	2429.9	2706.2	2981.1
20°	201.3	212.4	231.9	279.1	437.4	802.5	1312.8	1900.2	2629.8	2976.9	3238.0
22.5°	180.5	187.4	203.4	234.0	298.5	584.6	1155.2	1932.8	2872.1	3309.5	3610.8
25°	158.3	167.3	181.2	207.6	248.5	405.4	999.7	2005.7	3211.6	3731.6	4014.8
27.5°	140.9	149.3	163.1	187.4	218.0	309.6	818.5	2068.2	3569.8	4156.5	4388.3
30°	123.6	131.9	145.8	165.2	193.0	250.6	623.4	2105.0	3917.6	4475.1	4653.5
32.5°	109.0	115.9	129.1	146.5	169.4	212.4	491.5	2066.8	4183.5	4764.6	4884.0
35°	94.4	102.7	113.9	129.8	150.0	181.2	408.9	1934.9	4411.9	5062.5	5105.5
37.5°	79.1	88.9	100.7	115.2	131.2	166.6	328.4	1789.1	4656.3	5433.9	5363.1
40°	66.6	75.7	86.8	102.7	117.3	152.7	252.7	1633.6	4920.1	5782.4	5644.2
42.5°	54.2	63.9	77.1	91.6	115.9	133.3	195.8	1472.5	5156.9	6085.8	5898.3
45°	43.0	51.4	65.3	84.0	115.2	114.6	151.3	1313.5	5335.3	6302.4	6087.9
47.5°	34.0	41.0	54.8	81.9	106.2	97.2	121.5	1214.9	5522.7	6497.5	6233.0
50°	27.1	34.0	47.2	85.4	93.0	83.3	102.1	1230.9	5703.9	6596.7	6292.7
52.5°	22.9	29.9	41.0	67.3	71.5	72.9	89.6	1304.5	5937.9	6703.0	6411.4
55°	20.1	26.4	34.7	47.2	55.5	65.3	81.9	1357.9	6251.0	6930.7	6673.1
57.5°	16.0	22.9	31.2	40.3	45.8	56.9	75.7	1362.1	6534.3	7222.9	7020.9
59°	14.6	20.8	29.2	38.2	41.0	51.4	71.5	1326.7	6544.7	7266.7	7180.6
60°	13.2	20.1	27.8	35.4	38.9	48.6	68.0	1285.7	6450.3	7197.3	7246.6
62.5°	11.1	17.4	24.3	28.5	33.3	40.3	59.0	1137.2	5992.7	6882.8	7124.4
65°	9.7	15.3	20.8	23.6	27.8	34.7	52.1	910.2	5487.3	6456.5	6774.5
67.5°	9.0	13.9	18.1	20.1	24.3	31.9	46.5	642.9	4832.7	5915.7	6248.9
70°	8.3	13.2	16.0	18.7	21.5	27.1	39.6	374.9	3722.6	4967.3	5319.3
72.5°	8.3	12.5	13.9	16.0	18.7	24.3	36.8	202.7	2545.1	3789.2	4243.9
75°	8.3	11.8	12.5	13.9	16.7	22.2	32.6	106.2	1645.4	2632.6	3249.1
77.5°	8.3	11.1	12.5	13.2	16.0	19.4	28.5	66.6	1096.2	1843.9	2195.9
80°	9.0	11.1	11.8	13.2	15.3	18.1	23.6	44.4	644.3	1109.4	1336.4
82.5°	9.7	11.1	12.5	13.9	16.0	17.4	20.8	27.8	297.1	733.8	830.3
85°	10.4	11.8	13.2	14.6	16.7	17.4	19.4	20.1	48.6	331.2	447.8
87.5°	11.1	12.5	13.9	15.3	18.1	18.1	18.1	18.1	16.7	35.4	90.3
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°	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6	3018.6
2.5°	3406.0	3484.4	3539.3	3553.2	3513.6	3495.5	3445.5	3367.8	3320.6	3318.5
5°	3589.3	3773.2	3901.0	3922.5	3846.1	3717.0	3563.6	3365.7	3249.8	3215.1
7.5°	3558.0	3880.1	4085.6	4115.5	3987.1	3740.6	3443.5	3124.8	2998.5	2945.0
10°	3429.6	3822.5	4116.2	4163.4	3991.9	3644.8	3267.1	2911.7	2754.8	2713.8
12.5°	3319.9	3717.0	3978.0	4043.3	3913.5	3567.0	3161.6	2774.9	2606.9	2568.7
15°	3272.0	3592.0	3751.7	3785.0	3763.5	3518.4	3150.5	2754.1	2561.8	2520.1
17.5°	3319.9	3485.8	3505.9	3540.0	3587.9	3513.6	3257.4	2867.2	2659.7	2608.3
20°	3445.5	3393.5	3310.2	3324.8	3434.4	3533.7	3447.6	3117.9	2865.2	2810.3
22.5°	3659.4	3370.6	3181.7	3169.2	3308.1	3601.1	3726.7	3457.4	3164.4	3110.2
25°	3921.8	3428.2	3134.5	3107.5	3258.8	3699.6	4030.1	3873.2	3553.2	3470.5
27.5°	4207.8	3547.6	3134.5	3108.1	3254.6	3787.1	4289.8	4241.2	3955.8	3865.6
30°	4364.7	3646.2	3179.7	3149.8	3306.0	3837.8	4428.6	4568.1	4258.5	4146.7
32.5°	4505.0	3783.0	3267.8	3211.6	3413.6	3912.8	4552.9	4845.8	4499.4	4424.4
35°	4634.1	3929.4	3389.3	3324.1	3555.2	4015.5	4690.3	5137.4	4834.7	4721.6
37.5°	4776.4	4099.5	3578.8	3523.3	3792.0	4215.5	4853.5	5520.7	5164.5	5022.2
40°	4931.2	4296.7	3890.6	3867.0	4168.3	4441.8	5059.7	5929.6	5540.8	5379.0
42.5°	5088.8	4523.7	4272.4	4311.3	4594.5	4759.1	5271.4	6244.1	5849.0	5670.6
45°	5231.8	4813.9	4768.8	4961.1	5091.6	5068.7	5428.3	6465.5	6117.7	5946.9
47.5°	5412.4	5236.7	5369.3	5665.8	5669.2	5405.4	5547.0	6646.7	6348.9	6178.1
50°	5614.4	5735.9	6144.8	6446.8	6365.6	5736.6	5685.9	6861.2	6587.7	6450.9
52.5°	5848.3	6294.7	6861.2	7196.6	7007.0	6097.6	5917.1	7093.1	6966.8	6835.6
55°	6120.5	6675.9	7575.6	7842.9	7652.0	6546.1	6268.4	7407.6	7395.1	7305.6
57.5°	6428.0	7078.5	7989.4	8351.1	8181.0	7072.3	6759.2	7704.1	7656.9	7606.9
59°	6671.0	7285.4	8172.0	8546.9	8444.1	7440.9	7089.0	7888.7	7717.3	7642.3
60°	6818.2	7425.7	8239.3	8573.3	8549.7	7660.3	7297.9	7979.0	7716.6	7612.4
62.5°	7254.9	7670.7	8213.6	8455.9	8548.3	8081.0	7910.9	8078.3	7573.5	7420.8
65°	7410.4	7589.5	7788.1	7758.2	7837.4	8059.5	8302.5	7969.3	7268.1	7050.8
67.5°	7107.7	6698.8	6768.9	6569.7	6530.8	7165.3	8143.5	7436.1	6670.3	6404.4
70°	5991.4	5131.9	5096.5	5188.1	4936.8	5801.1	7312.5	6409.3	5683.8	5382.5
72.5°	4716.0	3626.7	3328.2	3665.6	3658.0	4425.8	6074.7	4548.0	3839.9	3814.2
75°	3708.7	2525.0	2216.0	2270.9	2376.4	3204.0	4838.2	2888.1	2364.6	2154.9
77.5°	2489.6	1789.1	1669.0	1601.6	1715.5	2057.1	3060.9	1566.2	1326.0	1255.9
80°	1435.0	1299.6	1476.0	1339.9	1401.0	1296.2	1522.5	718.5	596.4	645.6
82.5°	933.8	740.1	788.7	585.9	801.2	808.1	488.8	212.4	179.8	190.9
85°	583.9	347.1	195.1	138.8	276.3	508.2	152.7	13.2	15.3	13.2
87.5°	151.3	57.6	24.3	36.1	44.4	39.6	35.4	2.1	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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