

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: P529017

Luminaire Tested: **GALN-SA4A-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529017
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-SA4A-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 7352 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

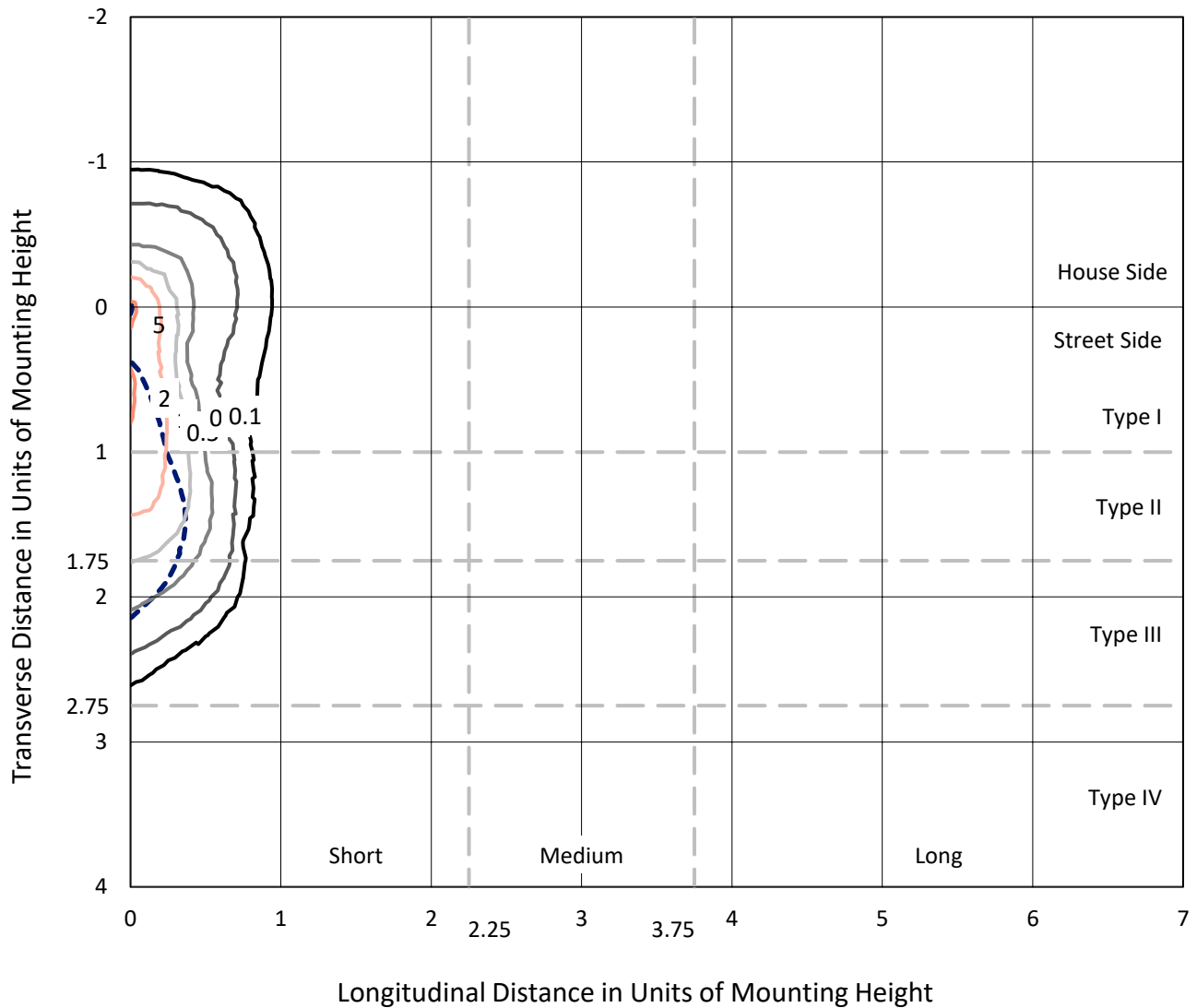
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

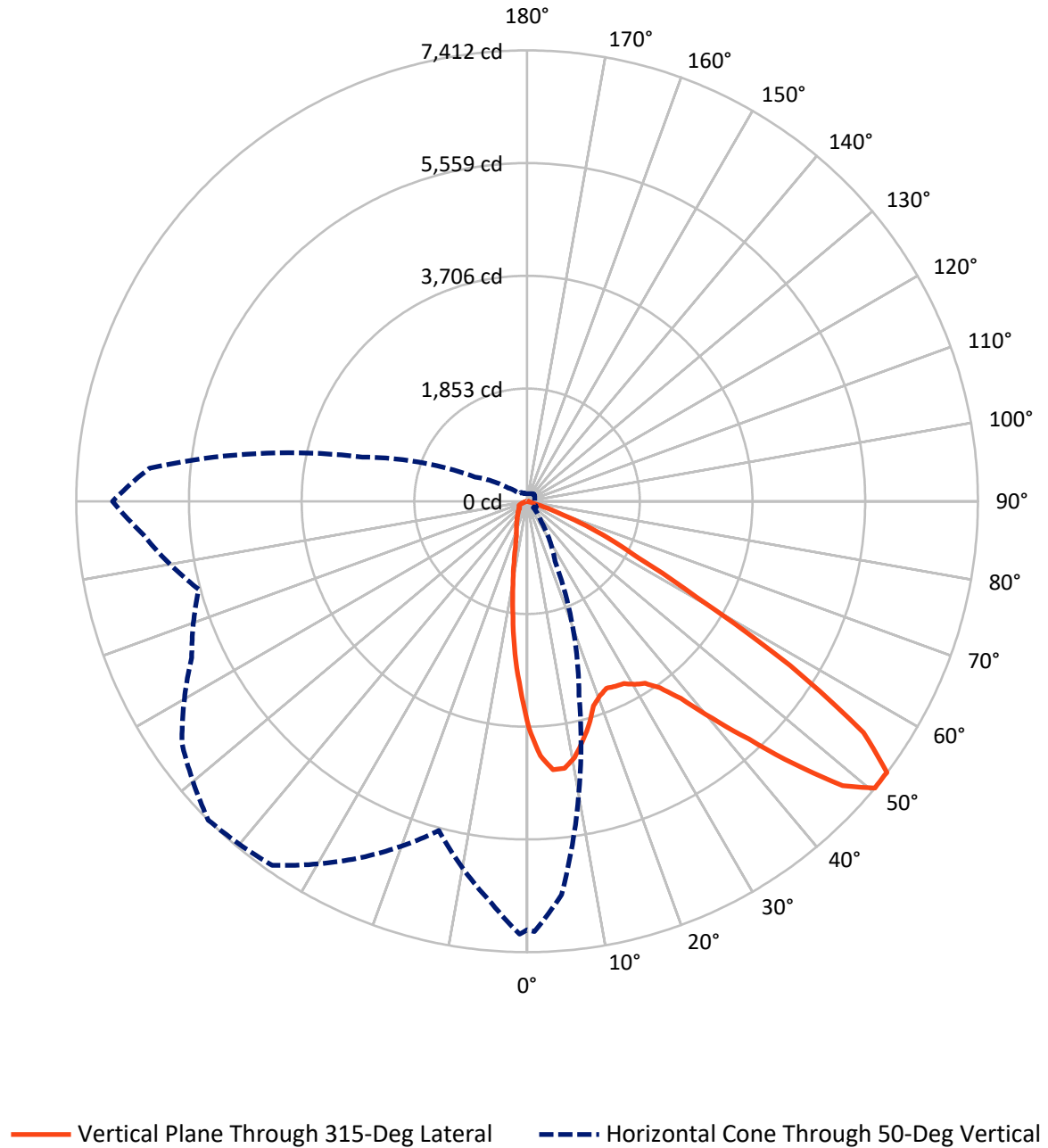
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1472.6	0.0	1472.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5879.4	0.0	5879.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	7352.0	0.0	7352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.8	3.7
10°-20°	540.1	7.3
20°-30°	811.4	11.0
30°-40°	1217.9	16.6
40°-50°	1711.7	23.3
50°-60°	1846.4	25.1
60°-70°	857.3	11.7
70°-80°	80.7	1.1
80°-90°	14.9	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°	7352.0	100.0
0°-180°	7352.0	100.0

Coefficient of Utilization



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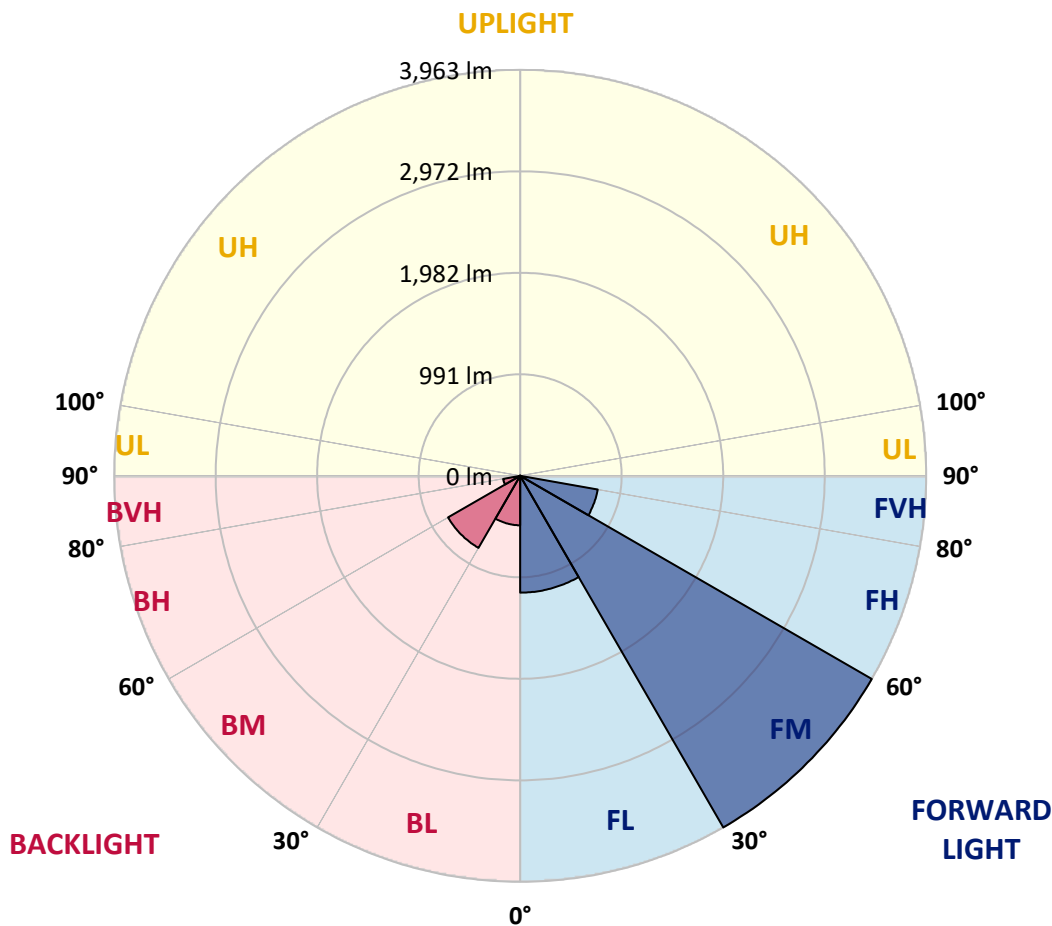
CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.6	15.5			
FM (30°-60°)	3963.3	53.9			
FH (60°-80°)	768.8	10.5			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	482.7	6.6	B1/500		
BM (30°-60°)	812.7	11.1	B1/1000		
BH (60°-80°)	169.1	2.3	B1/500		G1/500
BVH (80°-90°)	8.2	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°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3875.7	3815.9	3740.1	3677.3	3584.0	3395.8	3344.8	3283.5	3232.4	3163.9	3067.6
5°	3524.2	3505.2	3470.2	3233.9	3063.2	2835.7	2649.0	2570.2	2466.6	2382.0	2320.8
7.5°	3255.8	3179.9	3069.1	2831.3	2558.5	2314.9	2107.8	1986.7	1849.6	1802.9	1719.8
10°	2968.4	2985.9	2822.5	2488.5	2158.8	1961.9	1833.6	1716.9	1592.9	1511.2	1393.0
12.5°	2876.5	2819.6	2694.2	2281.4	1999.9	1816.1	1660.0	1515.6	1384.3	1253.0	1139.2
15°	2936.3	2848.8	2673.8	2237.6	1877.3	1648.3	1452.8	1257.4	1136.3	968.6	850.4
17.5°	3150.8	3080.7	2845.9	2284.3	1814.6	1487.9	1197.6	996.3	811.0	659.3	599.5
20°	3508.1	3408.9	3114.3	2344.1	1721.2	1293.9	971.5	723.5	548.5	484.3	450.7
22.5°	3858.2	3804.2	3432.3	2459.3	1638.1	1121.7	729.3	487.2	409.9	398.2	376.3
25°	4524.8	4362.9	3918.0	2667.9	1573.9	959.8	549.9	392.4	347.2	338.4	341.3
27.5°	4921.6	4785.9	4367.3	2806.5	1502.4	835.8	465.3	360.3	329.7	310.7	303.4
30°	5302.3	5144.8	4590.5	2888.2	1349.3	704.5	412.8	345.7	338.4	310.7	301.9
32.5°	5595.5	5440.9	4912.8	3010.7	1286.6	619.9	339.9	269.9	250.9	248.0	274.2
35°	6044.8	5879.9	5188.5	3077.8	1238.4	576.2	294.7	240.7	218.8	210.1	211.5
37.5°	6463.4	6351.1	5443.8	3104.1	1187.4	563.1	264.0	215.9	196.9	191.1	189.6
40°	6813.5	6562.6	5685.9	3131.8	1165.5	538.3	245.1	196.9	183.8	175.0	175.0
42.5°	6974.0	6718.7	5957.3	3115.7	1159.7	498.9	245.1	180.9	170.7	161.9	160.5
45°	6938.9	6835.4	6078.3	3108.5	1159.7	459.5	223.2	176.5	161.9	150.2	147.3
47.5°	7029.4	6893.7	6230.0	3139.1	1136.3	431.8	188.2	185.3	153.2	138.6	135.7
50°	7045.4	7071.7	6494.1	3298.1	1085.3	396.8	147.3	182.3	147.3	125.4	122.5
52°	7150.5	6987.1	6574.3	3382.7	1031.3	370.5	124.0	156.1	141.5	116.7	113.8
52.5°	7006.0	7112.5	6593.2	3413.3	1037.1	353.0	119.6	153.2	138.6	116.7	109.4
55°	6844.1	6946.2	6515.9	3479.0	951.1	277.1	93.4	110.9	125.4	102.1	97.7
57.5°	5948.5	6052.1	5662.6	3185.8	774.6	195.5	77.3	83.1	110.9	94.8	90.4
60°	5287.7	5213.3	4752.4	2657.7	549.9	109.4	61.3	64.2	121.1	87.5	86.1
62.5°	4832.6	4673.6	3972.0	2052.4	335.5	72.9	48.1	49.6	93.4	81.7	81.7
65°	3575.2	3397.3	2638.8	1241.3	164.8	51.1	36.5	39.4	58.3	70.0	70.0
67.5°	2040.7	1972.1	1274.9	560.1	68.6	32.1	27.7	30.6	45.2	56.9	54.0
70°	937.9	841.7	490.1	118.2	32.1	21.9	21.9	24.8	36.5	42.3	39.4
72.5°	274.2	259.6	119.6	19.0	13.1	13.1	14.6	19.0	27.7	32.1	29.2
75°	20.4	13.1	8.8	5.8	5.8	8.8	11.7	19.0	27.7	30.6	24.8
77.5°	1.5	2.9	1.5	1.5	4.4	8.8	13.1	23.3	36.5	37.9	27.7
80°	1.5	1.5	0.0	1.5	4.4	8.8	14.6	26.3	40.8	43.8	23.3
82.5°	0.0	0.0	0.0	1.5	5.8	11.7	17.5	27.7	37.9	46.7	24.8
85°	0.0	0.0	0.0	1.5	8.8	16.0	20.4	7.3	4.4	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°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3136.2	3098.2	3083.7	3096.8	3092.4	3088.0	3168.3	3150.8	3147.8	3174.1	3168.3
5°	2354.3	2287.2	2471.0	2396.6	2473.9	2520.6	2529.4	2533.7	2587.7	2530.8	2605.2
7.5°	1677.5	1695.0	1693.5	1743.1	1832.1	1910.9	1957.6	1921.1	1918.2	1910.9	1878.8
10°	1340.5	1309.9	1304.1	1292.4	1320.1	1387.2	1444.1	1398.9	1366.8	1410.5	1397.4
12.5°	1095.5	1053.2	1029.8	983.2	984.6	1029.8	1029.8	1029.8	1061.9	1086.7	1105.7
15°	840.2	805.2	805.2	758.5	748.3	749.8	773.1	776.0	827.1	841.7	849.0
17.5°	587.8	568.9	590.8	609.7	598.1	601.0	609.7	612.6	619.9	614.1	628.7
20°	452.2	449.3	455.1	488.7	513.5	528.0	517.8	503.2	494.5	474.1	474.1
22.5°	383.6	389.5	399.7	427.4	459.5	468.2	456.6	423.0	396.8	393.8	395.3
25°	341.3	347.2	363.2	380.7	398.2	412.8	401.1	376.3	361.8	348.6	348.6
27.5°	315.1	318.0	326.7	339.9	354.5	366.1	361.8	348.6	332.6	326.7	313.6
30°	294.7	299.0	309.2	312.2	325.3	331.1	323.8	320.9	310.7	303.4	299.0
32.5°	284.4	283.0	290.3	293.2	294.7	299.0	290.3	294.7	293.2	281.5	277.1
35°	214.4	226.1	245.1	261.1	265.5	271.3	269.9	264.0	248.0	234.8	218.8
37.5°	192.5	199.8	210.1	223.2	240.7	248.0	245.1	230.5	211.5	202.8	199.8
40°	178.0	182.3	191.1	199.8	217.3	230.5	220.3	207.1	192.5	185.3	180.9
42.5°	164.8	166.3	170.7	179.4	192.5	213.0	195.5	178.0	172.1	167.7	164.8
45°	150.2	150.2	156.1	160.5	175.0	194.0	176.5	160.5	157.5	154.6	153.2
47.5°	138.6	140.0	143.0	148.8	160.5	173.6	161.9	148.8	141.5	140.0	137.1
50°	124.0	125.4	131.3	137.1	151.7	159.0	151.7	137.1	129.8	125.4	125.4
52°	112.3	116.7	122.5	134.2	144.4	156.1	147.3	131.3	122.5	118.2	115.2
52.5°	110.9	113.8	119.6	132.7	144.4	154.6	145.9	129.8	119.6	116.7	113.8
55°	99.2	103.6	113.8	129.8	143.0	154.6	143.0	128.4	113.8	106.5	103.6
57.5°	94.8	97.7	110.9	131.3	141.5	154.6	143.0	128.4	113.8	100.6	97.7
60°	90.4	96.3	110.9	126.9	140.0	156.1	144.4	126.9	110.9	94.8	94.8
62.5°	86.1	90.4	109.4	124.0	134.2	150.2	138.6	124.0	106.5	90.4	89.0
65°	74.4	81.7	96.3	103.6	115.2	129.8	118.2	107.9	93.4	80.2	78.8
67.5°	56.9	59.8	71.5	80.2	87.5	100.6	94.8	81.7	71.5	61.3	61.3
70°	39.4	42.3	51.1	55.4	62.7	70.0	65.6	55.4	48.1	42.3	40.8
72.5°	27.7	29.2	32.1	35.0	37.9	40.8	39.4	32.1	27.7	26.3	24.8
75°	21.9	24.8	26.3	24.8	23.3	21.9	21.9	19.0	16.0	14.6	14.6
77.5°	21.9	23.3	21.9	19.0	16.0	14.6	13.1	11.7	8.8	7.3	8.8
80°	19.0	19.0	19.0	16.0	14.6	13.1	11.7	10.2	8.8	7.3	7.3
82.5°	20.4	20.4	19.0	16.0	16.0	13.1	13.1	11.7	10.2	7.3	7.3
85°	0.0	0.0	0.0	2.9	7.3	13.1	13.1	11.7	10.2	8.8	8.8
87.5°	0.0	0.0	0.0	0.0	1.5	2.9	5.8	7.3	8.8	8.8	8.8
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°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3220.8	3276.2	3381.2	3486.2	3550.4	3626.3	3763.4	3836.3	3931.1	3977.8	4069.7
5°	2595.0	2726.3	2773.0	2892.6	3020.9	3149.3	3353.5	3578.1	3764.9	3893.2	4059.5
7.5°	1893.4	1924.0	2104.9	2185.1	2395.2	2628.5	2907.2	3190.1	3426.4	3636.5	3763.4
10°	1419.3	1531.6	1645.4	1798.6	1967.8	2208.4	2475.4	2787.5	3093.9	3303.9	3464.4
12.5°	1140.7	1229.7	1381.4	1546.2	1754.8	1913.8	2182.2	2491.4	2888.2	3093.9	3305.4
15°	863.5	977.3	1149.4	1320.1	1540.4	1708.1	1979.4	2368.9	2879.4	3162.4	3344.8
17.5°	640.4	717.7	872.3	1063.4	1288.0	1524.3	1890.5	2355.8	2977.2	3314.1	3502.3
20°	490.1	516.4	614.1	784.8	1028.4	1337.6	1746.0	2412.7	3266.0	3683.2	3874.3
22.5°	396.8	408.4	446.4	564.5	800.8	1174.2	1677.5	2452.0	3591.3	4125.2	4380.4
25°	345.7	342.8	367.6	418.6	625.8	1021.1	1590.0	2600.8	3989.5	4644.4	4873.5
27.5°	315.1	315.1	326.7	363.2	519.3	921.9	1534.5	2707.3	4390.6	5101.0	5225.0
30°	299.0	301.9	335.5	347.2	431.8	803.7	1442.6	2815.3	4774.3	5392.7	5563.4
32.5°	277.1	265.5	258.2	287.4	363.2	697.2	1350.7	2860.5	5085.0	5750.1	5896.0
35°	213.0	207.1	215.9	237.8	312.2	606.8	1248.6	2911.5	5442.3	6164.4	6193.6
37.5°	192.5	191.1	196.9	215.9	262.6	528.0	1175.7	2898.4	5715.1	6507.2	6428.4
40°	178.0	178.0	182.3	198.4	234.8	472.6	1099.8	2886.7	5979.1	6892.3	6661.8
42.5°	166.3	166.3	173.6	183.8	223.2	436.1	1043.0	2870.7	6200.9	7128.6	6798.9
45°	150.2	154.6	166.3	176.5	226.1	411.3	1000.7	2809.4	6276.7	7125.7	6733.3
47.5°	138.6	144.4	156.1	170.7	204.2	404.1	971.5	2755.4	6250.5	6950.6	6527.6
50°	125.4	132.7	148.8	173.6	173.6	389.5	940.8	2803.6	6231.5	6815.0	6330.7
52°	116.7	122.5	143.0	169.2	151.7	358.8	921.9	2896.9	6308.8	6797.5	6243.2
52.5°	115.2	119.6	138.6	166.3	144.4	353.0	908.8	2918.8	6333.6	6753.7	6303.0
55°	102.1	107.9	126.9	129.8	118.2	290.3	866.5	2968.4	6211.1	6667.6	6246.1
57.5°	96.3	99.2	112.3	106.5	102.1	218.8	745.4	2891.1	5516.7	5922.2	5811.4
60°	89.0	91.9	105.0	83.1	86.1	153.2	560.1	2510.4	4430.0	4934.7	5134.6
62.5°	86.1	84.6	99.2	67.1	72.9	110.9	395.3	2040.7	3413.3	4062.4	4408.1
65°	75.9	74.4	71.5	56.9	62.7	86.1	236.3	1331.8	2405.4	3073.4	3263.1
67.5°	58.3	61.3	52.5	45.2	52.5	67.1	131.3	596.6	1261.8	1843.8	1996.9
70°	40.8	43.8	42.3	39.4	46.7	55.4	75.9	204.2	522.2	968.6	1067.8
72.5°	24.8	30.6	32.1	33.5	40.8	48.1	54.0	65.6	138.6	342.8	425.9
75°	14.6	20.4	24.8	29.2	33.5	40.8	45.2	46.7	48.1	64.2	103.6
77.5°	10.2	14.6	21.9	27.7	33.5	40.8	48.1	51.1	48.1	45.2	48.1
80°	8.8	14.6	20.4	26.3	35.0	42.3	48.1	48.1	46.7	40.8	43.8
82.5°	8.8	14.6	21.9	27.7	33.5	40.8	46.7	48.1	43.8	40.8	42.3
85°	10.2	16.0	23.3	29.2	36.5	33.5	30.6	24.8	23.3	19.0	20.4
87.5°	10.2	14.6	14.6	16.0	17.5	17.5	17.5	16.0	13.1	11.7	11.7
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°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	4074.1	4190.8	4186.4	4189.3	4171.8	4053.7	3996.8	3852.4	3893.2	3875.7
5°	4230.2	4345.4	4444.6	4432.9	4298.7	4138.3	3900.5	3675.9	3614.6	3524.2
7.5°	4074.1	4351.2	4443.1	4430.0	4231.6	4026.0	3646.7	3422.1	3315.6	3255.8
10°	3826.1	4147.0	4260.8	4284.1	4149.9	3837.8	3489.2	3128.9	3072.0	2968.4
12.5°	3684.6	3918.0	3988.0	4050.8	4004.1	3770.7	3369.6	3023.8	2945.1	2876.5
15°	3569.4	3708.0	3737.1	3808.6	3836.3	3710.9	3432.3	3137.6	2943.6	2936.3
17.5°	3675.9	3619.0	3512.5	3534.4	3621.9	3712.3	3594.2	3362.3	3174.1	3150.8
20°	3852.4	3601.5	3360.8	3414.8	3487.7	3764.9	3839.3	3675.9	3567.9	3508.1
22.5°	4055.1	3632.1	3312.7	3338.9	3477.5	3883.0	4236.0	4145.6	3944.3	3858.2
25°	4430.0	3716.7	3350.6	3368.1	3557.7	4047.8	4594.8	4661.9	4542.3	4524.8
27.5°	4796.1	3935.5	3433.7	3394.4	3598.6	4208.3	4812.2	5172.5	4962.4	4921.6
30°	4982.9	4113.5	3557.7	3490.6	3767.8	4306.0	4943.5	5505.1	5321.3	5302.3
32.5°	5268.8	4275.4	3654.0	3567.9	3862.6	4427.1	5188.5	5868.3	5690.3	5595.5
35°	5388.4	4451.9	3865.5	3764.9	4133.9	4596.3	5314.0	6192.1	6136.7	6044.8
37.5°	5618.8	4641.5	4114.9	4109.1	4462.1	4816.6	5540.1	6632.6	6622.4	6463.4
40°	5637.8	4848.7	4508.8	4692.6	4969.7	5200.2	5738.5	6755.2	6921.4	6813.5
42.5°	5667.0	5211.9	5190.0	5341.7	5579.5	5529.9	5745.7	6784.3	7038.1	6974.0
45°	5680.1	5575.1	5882.9	6162.9	6262.1	5961.6	5677.2	6728.9	7099.4	6938.9
47.5°	5575.1	5887.2	6443.0	6984.2	7013.3	6227.1	5648.0	6672.0	7135.9	7029.4
50°	5589.7	6082.7	6927.3	7411.6	7305.1	6462.0	5602.8	6637.0	7116.9	7045.4
52°	5554.7	6087.1	6995.8	7402.8	7328.4	6332.1	5525.5	6502.8	7099.4	7150.5
52.5°	5594.0	6060.8	6924.4	7408.6	7312.4	6396.3	5515.3	6577.2	7109.6	7006.0
55°	5458.4	5748.7	6505.7	6711.4	6696.8	5805.6	5201.7	6330.7	6842.7	6844.1
57.5°	4933.3	4982.9	5102.5	5098.1	5031.0	4564.2	4449.0	5821.6	6100.2	5948.5
60°	4346.9	3648.2	3325.8	3194.5	3120.1	3044.3	3935.5	5325.6	5351.9	5287.7
62.5°	3756.1	2529.4	2100.5	2064.0	2081.5	2358.7	3804.2	5128.7	4971.2	4832.6
65°	3031.1	1843.8	1525.8	1477.6	1648.3	1947.3	3079.3	3932.6	3690.5	3575.2
67.5°	1903.6	1344.9	1031.3	940.8	1146.5	1340.5	2023.2	2471.0	2199.7	2040.7
70°	1129.0	751.2	466.8	418.6	471.2	714.8	1133.4	1232.6	1019.6	937.9
72.5°	444.9	275.7	129.8	110.9	115.2	250.9	417.2	407.0	307.8	274.2
75°	119.6	83.1	45.2	36.5	30.6	46.7	67.1	43.8	16.0	20.4
77.5°	55.4	49.6	39.4	30.6	23.3	17.5	8.8	2.9	2.9	1.5
80°	48.1	42.3	36.5	30.6	23.3	14.6	7.3	1.5	1.5	1.5
82.5°	45.2	39.4	33.5	27.7	21.9	14.6	7.3	1.5	0.0	0.0
85°	19.0	24.8	27.7	26.3	23.3	14.6	7.3	1.5	0.0	0.0
87.5°	10.2	8.8	7.3	5.8	4.4	2.9	2.9	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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