

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: P527614

Luminaire Tested: **GALN-SA2C-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7741 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

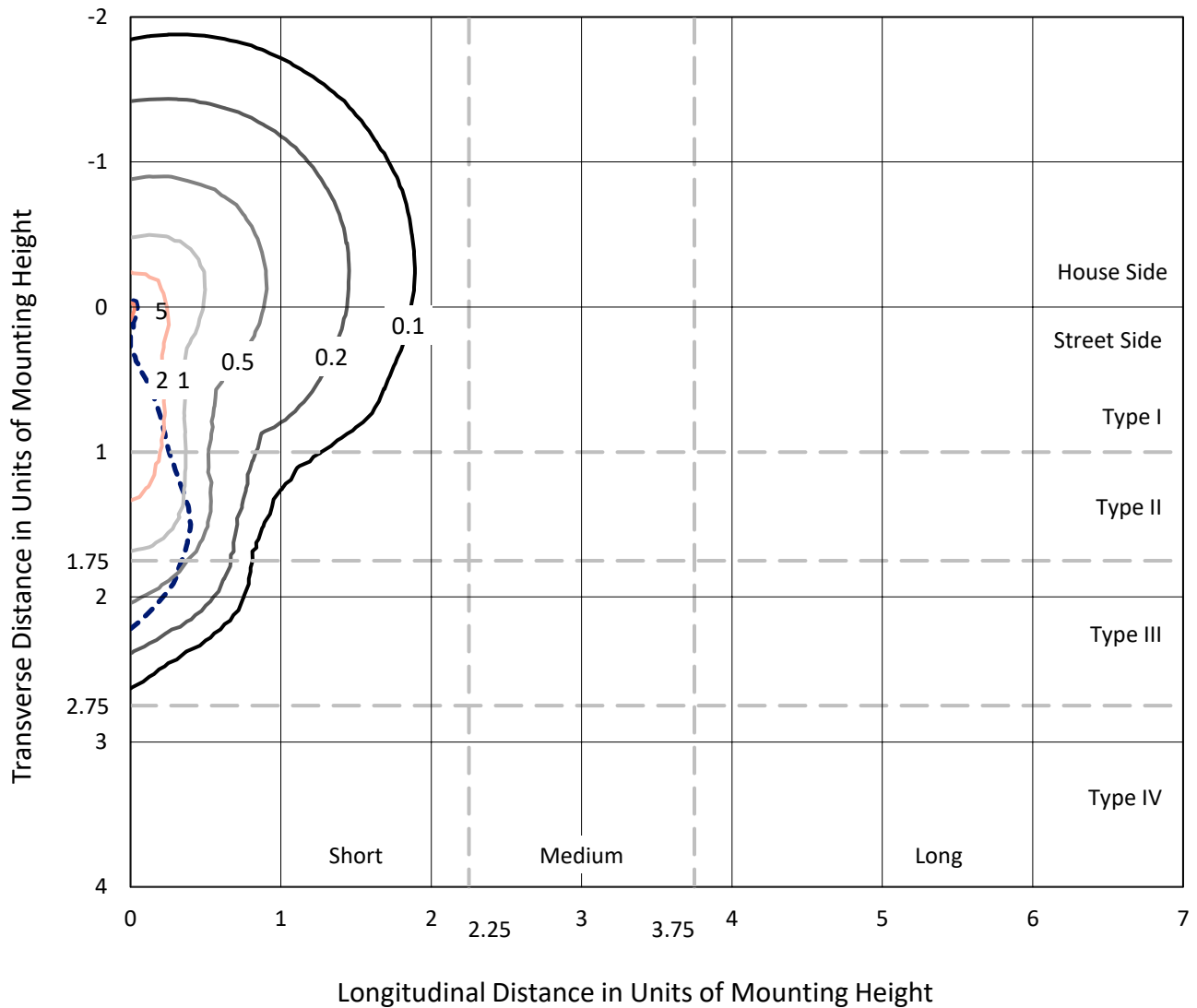
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

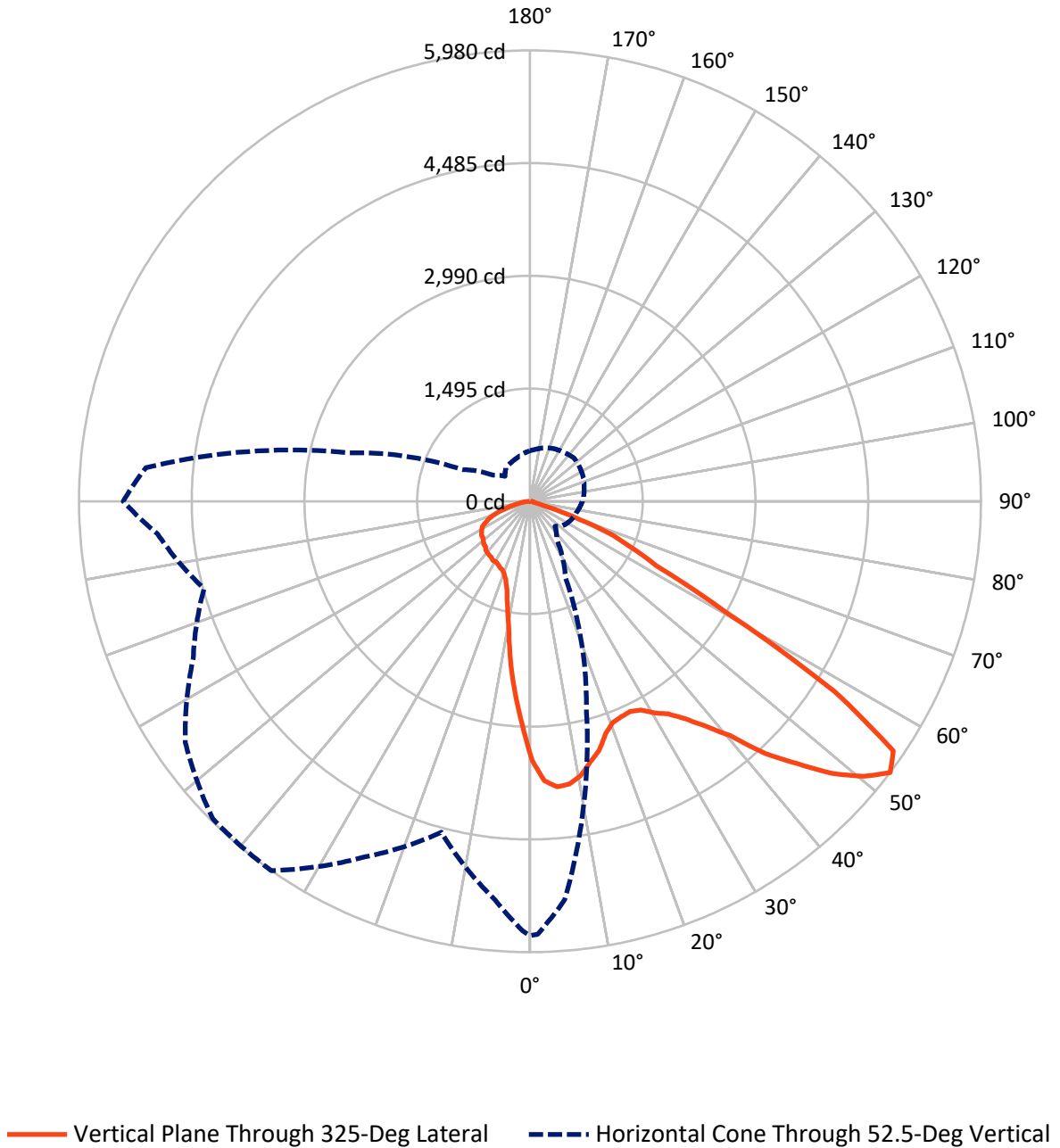
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2333.6	0.0	2333.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5407.4	0.0	5407.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	7741.0	0.0	7741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	3.4
10°-20°	568.2	7.3
20°-30°	858.5	11.1
30°-40°	1240.6	16.0
40°-50°	1651.0	21.3
50°-60°	1846.6	23.9
60°-70°	1040.8	13.4
70°-80°	232.0	3.0
80°-90°	41.3	0.5
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°	7741.0	100.0
0°-180°	7741.0	100.0

Coefficient of Utilization



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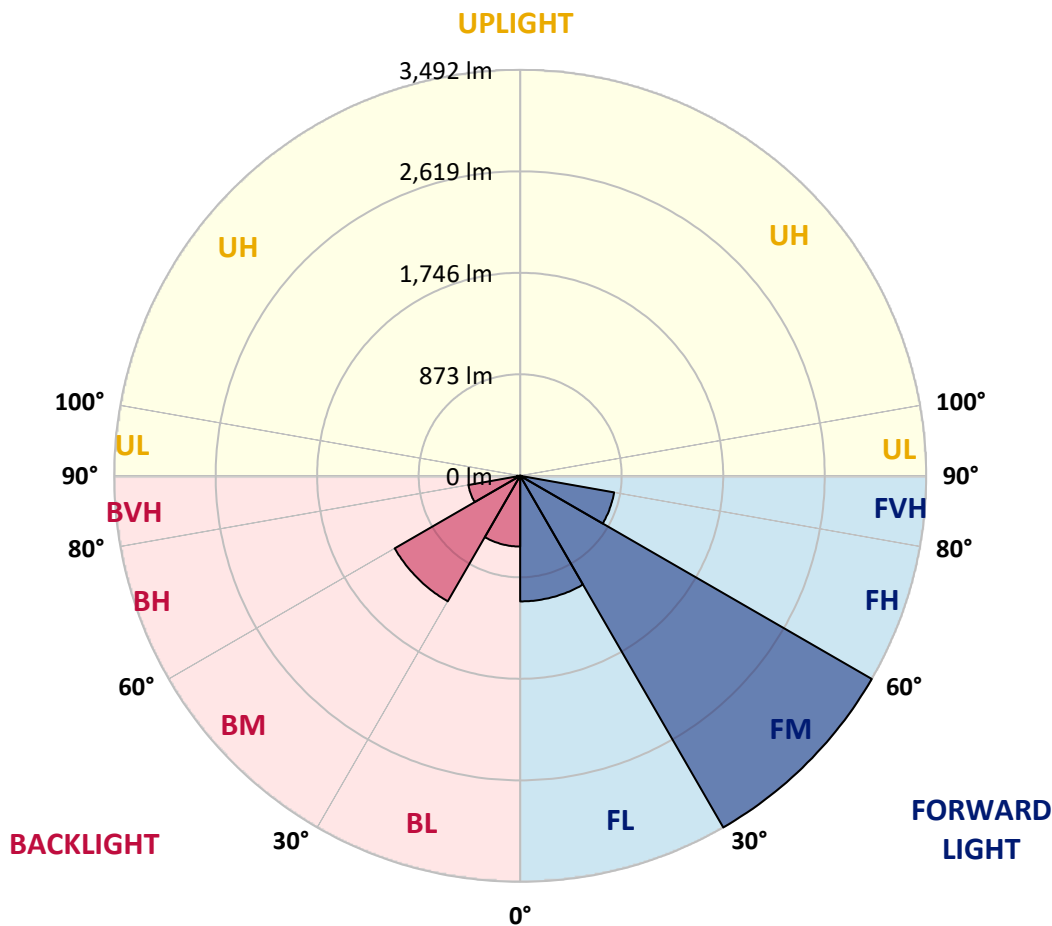
CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1080.2	14.0			
FM (30°-60°)	3491.8	45.1			
FH (60°-80°)	820.4	10.6			G1/1800
FVH (80°-90°)	15.0	0.2			G1/100
BL (0°-30°)	608.5	7.9	B2/1000		
BM (30°-60°)	1246.4	16.1	B2/2500		
BH (60°-80°)	452.3	5.8	B1/500		G1/500
BVH (80°-90°)	26.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5
2.5°	3492.7	3548.8	3488.2	3380.5	3304.2	3234.7	3161.7	3147.2	3051.8	3035.0	2965.4
5°	3294.1	3281.8	3207.7	3066.4	2910.4	2769.0	2664.7	2563.7	2495.3	2415.6	2410.0
7.5°	3052.9	2981.1	2938.5	2724.2	2531.2	2309.0	2213.7	2060.0	2011.7	1939.9	1902.9
10°	2837.5	2784.8	2684.9	2470.6	2201.3	2054.3	1952.2	1869.2	1813.1	1739.1	1645.9
12.5°	2730.9	2709.6	2597.4	2265.3	2065.6	1908.5	1836.7	1755.9	1660.5	1541.6	1495.6
15°	2750.0	2678.2	2592.9	2226.0	1950.0	1798.5	1684.1	1583.1	1460.8	1347.5	1281.3
17.5°	2892.5	2837.5	2666.9	2250.7	1906.2	1687.5	1479.9	1330.7	1220.7	1118.6	1072.6
20°	3173.0	3093.3	2901.4	2282.1	1812.0	1532.6	1294.8	1110.8	993.0	939.1	923.4
22.5°	3483.7	3436.6	3130.3	2352.8	1736.8	1389.0	1098.4	914.4	870.7	856.1	885.2
25°	3861.9	3739.6	3486.0	2468.4	1678.5	1266.7	932.4	830.3	807.8	822.4	856.1
27.5°	4149.1	4116.5	3735.1	2577.2	1598.8	1119.7	839.2	771.9	778.7	793.2	824.7
30°	4490.2	4325.2	3976.3	2652.4	1527.0	1018.8	774.2	756.2	762.9	787.6	803.3
32.5°	4695.5	4633.8	4127.8	2765.7	1444.0	931.2	723.7	706.8	716.9	754.0	791.0
35°	4956.9	4834.6	4315.1	2794.9	1385.6	896.5	687.8	675.4	699.0	724.8	766.3
37.5°	5262.1	5177.9	4574.3	2774.7	1354.2	860.6	657.5	651.9	668.7	704.6	752.8
40°	5442.7	5416.9	4710.1	2787.0	1304.9	829.1	622.7	629.4	664.2	692.3	739.4
42.5°	5616.6	5448.3	4910.9	2782.5	1273.4	786.5	626.1	618.2	645.1	677.7	722.6
45°	5654.8	5487.6	4958.0	2751.1	1235.3	745.0	600.3	603.6	636.2	676.6	705.7
47.5°	5630.1	5506.7	5045.5	2742.1	1199.4	715.8	562.1	602.5	621.6	654.1	695.6
50°	5613.3	5606.5	5119.6	2784.8	1151.2	669.8	516.1	587.9	607.0	639.5	684.4
52.5°	5761.4	5746.8	5304.7	2897.0	1113.0	620.5	469.0	550.9	596.9	628.3	672.1
55°	5851.1	5787.2	5622.2	3035.0	1049.1	555.4	436.5	504.9	572.2	600.3	645.1
57.5°	5263.2	5219.5	5085.9	2833.0	941.3	470.1	396.1	457.8	538.6	582.3	628.3
60°	4379.1	4310.6	3968.4	2407.8	694.5	365.8	371.4	420.7	529.6	546.4	600.3
62.5°	4128.9	3959.5	3493.8	1937.7	532.9	314.2	333.2	387.1	482.5	510.5	564.4
65°	3276.2	3150.5	2499.8	1399.1	356.8	272.6	304.1	348.9	416.3	471.2	520.6
67.5°	2051.0	1930.9	1334.0	662.0	249.1	233.4	271.5	318.6	373.6	423.0	478.0
70°	1071.5	940.2	616.0	239.0	171.7	190.7	226.6	271.5	325.4	365.8	408.4
72.5°	399.4	324.3	200.8	103.2	118.9	145.9	184.0	216.5	254.7	304.1	327.6
75°	61.7	52.7	51.6	62.8	80.8	105.5	131.3	163.8	197.5	228.9	244.6
77.5°	29.2	28.0	31.4	41.5	53.9	75.2	95.4	126.8	153.7	173.9	182.9
80°	19.1	18.0	20.2	28.0	40.4	56.1	76.3	97.6	122.3	139.1	136.9
82.5°	11.2	12.3	12.3	19.1	28.0	40.4	55.0	74.1	90.9	105.5	96.5
85°	6.7	5.6	5.6	11.2	19.1	32.5	46.0	31.4	32.5	32.5	37.0
87.5°	2.2	2.2	2.2	1.1	2.2	2.2	3.4	5.6	6.7	7.9	10.1
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°	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5
2.5°	2963.1	2997.9	2985.6	2941.8	2975.5	2981.1	2958.7	3036.1	3050.7	3027.1	3033.8
5°	2402.2	2411.1	2431.3	2474.0	2504.3	2540.2	2540.2	2542.4	2512.1	2588.4	2566.0
7.5°	1871.5	1877.1	1900.6	1991.5	2017.3	2085.8	2114.9	2094.7	2034.2	2008.3	2029.7
10°	1615.7	1583.1	1575.3	1586.5	1644.8	1674.0	1698.7	1691.9	1681.8	1661.7	1639.2
12.5°	1445.1	1421.5	1402.5	1375.5	1378.9	1407.0	1426.0	1410.3	1414.8	1419.3	1426.0
15°	1260.0	1243.2	1233.1	1192.7	1188.2	1207.3	1214.0	1223.0	1239.8	1240.9	1233.1
17.5°	1063.6	1049.1	1071.5	1093.9	1078.2	1079.3	1091.7	1099.5	1095.1	1074.9	1064.8
20°	929.0	944.7	967.1	988.5	1005.3	1015.4	1019.9	1007.5	993.0	951.4	950.3
22.5°	889.7	909.9	929.0	961.5	977.2	1003.1	979.5	951.4	931.2	911.0	887.5
25°	860.6	877.4	915.5	927.9	958.2	979.5	962.7	934.6	899.8	870.7	852.7
27.5°	839.2	858.3	883.0	916.7	940.2	952.6	935.7	924.5	888.6	853.8	828.0
30°	825.8	846.0	890.9	918.9	939.1	949.2	920.0	906.6	880.8	851.6	829.1
32.5°	816.8	834.8	872.9	908.8	922.3	922.3	926.8	911.0	875.1	825.8	806.7
35°	787.6	812.3	843.7	885.2	909.9	924.5	902.1	884.1	860.6	810.1	775.3
37.5°	770.8	787.6	828.0	867.3	888.6	904.3	895.3	863.9	832.5	791.0	762.9
40°	752.8	779.8	815.7	852.7	876.3	892.0	885.2	848.2	810.1	770.8	751.7
42.5°	740.5	758.5	795.5	837.0	865.0	895.3	875.1	829.1	802.2	748.4	727.0
45°	730.4	759.6	798.8	815.7	844.9	876.3	840.4	812.3	780.9	741.6	723.7
47.5°	718.1	745.0	770.8	815.7	829.1	843.7	837.0	792.1	765.2	722.6	710.2
50°	713.6	723.7	770.8	795.5	814.6	829.1	811.2	777.5	751.7	708.0	681.0
52.5°	695.6	714.7	745.0	777.5	801.1	819.0	789.9	768.6	733.8	687.8	670.9
55°	673.2	684.4	738.3	771.9	784.3	796.6	785.4	750.6	714.7	667.6	650.7
57.5°	644.0	669.8	713.6	760.7	776.4	783.1	765.2	737.1	692.3	650.7	623.8
60°	613.7	640.7	688.9	727.0	742.8	767.4	740.5	723.7	672.1	626.1	596.9
62.5°	583.4	613.7	649.6	697.9	711.3	721.4	714.7	691.1	649.6	598.0	562.1
65°	547.5	570.0	614.8	639.5	648.5	672.1	648.5	639.5	602.5	553.1	522.8
67.5°	493.7	512.7	552.0	575.6	582.3	592.4	591.3	581.2	539.7	506.0	479.1
70°	432.0	448.8	473.5	501.5	504.9	517.2	506.0	503.8	476.8	430.8	416.3
72.5°	346.7	362.4	394.9	407.3	408.4	412.9	407.3	399.4	392.7	344.4	329.9
75°	265.9	274.9	290.6	301.8	301.8	307.4	304.1	296.2	278.3	248.0	233.4
77.5°	185.1	194.1	214.3	221.0	219.9	222.2	212.1	204.2	177.3	161.6	149.2
80°	134.6	140.2	150.3	154.8	156.0	159.3	147.0	140.2	124.5	106.6	101.0
82.5°	97.6	101.0	102.1	107.7	107.7	102.1	98.7	92.0	80.8	69.6	65.1
85°	40.4	41.5	42.6	49.4	50.5	60.6	56.1	52.7	46.0	39.3	35.9
87.5°	10.1	11.2	14.6	12.3	14.6	14.6	15.7	18.0	18.0	14.6	14.6
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°	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5
2.5°	3059.6	3068.6	3183.1	3197.6	3253.7	3311.0	3426.5	3509.6	3576.9	3620.6	3633.0
5°	2589.5	2646.8	2699.5	2784.8	2862.2	2972.1	3098.9	3256.0	3453.5	3554.4	3594.8
7.5°	2027.4	2094.7	2171.0	2254.1	2367.4	2564.8	2734.3	2916.0	3168.5	3272.8	3431.0
10°	1654.9	1730.1	1831.1	1895.0	2031.9	2220.4	2417.9	2627.7	2868.9	3019.2	3202.1
12.5°	1463.1	1524.8	1617.9	1752.5	1854.6	1976.9	2123.9	2388.7	2734.3	2876.8	3002.4
15°	1251.0	1319.4	1427.2	1576.4	1698.7	1844.5	2009.5	2297.8	2665.8	2885.7	2992.3
17.5°	1076.0	1125.3	1238.7	1367.7	1507.9	1667.3	1904.0	2293.3	2737.6	3019.2	3193.2
20°	954.8	961.5	1023.2	1133.2	1323.9	1531.5	1838.9	2270.9	2967.6	3249.3	3469.2
22.5°	878.5	871.8	872.9	966.0	1099.5	1398.0	1736.8	2347.2	3229.1	3615.0	3763.1
25°	840.4	822.4	811.2	831.4	952.6	1239.8	1659.4	2448.2	3510.7	3916.8	4098.6
27.5°	820.2	788.8	766.3	769.7	858.3	1160.1	1611.2	2491.9	3790.0	4337.6	4401.5
30°	812.3	773.0	740.5	729.3	787.6	1049.1	1507.9	2567.1	4040.3	4568.7	4623.7
32.5°	784.3	736.0	704.6	694.5	718.1	951.4	1433.9	2620.9	4261.3	4820.0	4801.0
35°	751.7	711.3	672.1	653.0	669.8	888.6	1374.4	2595.1	4521.6	5015.3	5005.2
37.5°	748.4	695.6	663.1	631.7	630.6	811.2	1293.6	2619.8	4687.6	5365.3	5227.3
40°	719.2	685.5	642.9	617.1	602.5	771.9	1215.1	2561.5	4931.1	5506.7	5370.9
42.5°	720.3	669.8	632.8	602.5	587.9	714.7	1161.2	2545.8	5016.4	5736.7	5438.2
45°	702.4	653.0	621.6	585.7	577.8	670.9	1109.6	2472.8	5166.7	5747.9	5354.1
47.5°	684.4	640.7	607.0	564.4	546.4	655.2	1069.2	2412.3	5088.2	5642.4	5237.4
50°	672.1	621.6	590.2	559.9	509.4	628.3	1016.5	2397.7	4978.2	5499.9	5020.9
52.5°	650.7	605.9	573.3	549.8	469.0	603.6	996.3	2482.9	5112.9	5393.4	4958.0
55°	630.6	584.6	543.0	497.0	435.3	538.6	940.2	2562.6	5309.2	5639.1	5243.0
57.5°	609.2	565.5	520.6	465.6	402.8	471.2	881.9	2577.2	4941.2	5211.6	4977.1
60°	581.2	525.1	491.4	419.6	368.0	390.4	699.0	2272.0	3832.7	4352.2	4360.0
62.5°	549.8	489.2	460.0	375.9	332.1	336.6	570.0	1909.6	3109.0	3602.7	3817.0
65°	508.3	449.9	415.1	347.8	306.3	291.7	417.4	1399.1	2361.8	2922.8	3166.2
67.5°	454.4	399.4	355.7	302.9	273.8	250.2	285.0	787.6	1394.6	1962.3	2036.4
70°	397.2	350.1	304.1	260.3	227.8	210.9	208.7	348.9	666.5	1055.8	1201.6
72.5°	313.0	279.4	242.3	209.8	188.5	163.8	149.2	144.7	225.5	429.7	593.5
75°	224.4	196.3	175.0	153.7	138.0	124.5	113.3	103.2	94.2	107.7	148.1
77.5°	141.4	131.3	114.4	108.8	99.9	96.5	92.0	86.4	79.7	75.2	75.2
80°	95.4	88.6	83.0	81.9	78.5	77.4	78.5	72.9	66.2	60.6	62.8
82.5°	64.0	62.8	61.7	60.6	61.7	62.8	65.1	64.0	58.3	55.0	56.1
85°	38.1	40.4	42.6	44.9	49.4	43.8	35.9	30.3	26.9	24.7	23.6
87.5°	14.6	20.2	18.0	16.8	18.0	16.8	15.7	14.6	12.3	11.2	11.2
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°	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5	3435.5
2.5°	3714.9	3737.3	3756.4	3751.9	3712.6	3659.9	3638.6	3529.7	3507.3	3492.7
5°	3765.4	3895.5	3923.6	3906.7	3804.6	3675.6	3549.9	3390.6	3297.5	3294.1
7.5°	3672.2	3832.7	3883.2	3921.3	3785.6	3561.2	3345.7	3106.8	3048.4	3052.9
10°	3435.5	3691.3	3815.9	3855.1	3699.2	3505.1	3206.6	2964.3	2839.7	2837.5
12.5°	3304.2	3505.1	3539.8	3594.8	3548.8	3352.5	3125.8	2854.3	2733.1	2730.9
15°	3187.5	3319.9	3330.0	3407.5	3432.1	3299.7	3147.2	2857.7	2760.1	2750.0
17.5°	3289.6	3197.6	3159.5	3169.6	3242.5	3290.8	3270.6	3048.4	2948.6	2892.5
20°	3358.1	3152.8	3037.2	3048.4	3134.8	3311.0	3454.6	3324.4	3166.2	3173.0
22.5°	3541.0	3159.5	2978.9	2966.5	3103.4	3416.4	3662.1	3673.4	3520.8	3483.7
25°	3814.7	3236.9	2960.9	2957.5	3088.8	3529.7	3904.5	4086.3	3930.3	3861.9
27.5°	4034.6	3358.1	3017.0	3028.2	3134.8	3621.8	4110.9	4352.2	4233.2	4149.1
30°	4227.6	3483.7	3095.5	3043.9	3258.2	3670.0	4199.6	4655.1	4559.7	4490.2
32.5°	4307.3	3662.1	3220.1	3134.8	3360.3	3728.3	4383.6	4949.1	4867.2	4695.5
35°	4441.9	3762.0	3287.4	3280.7	3538.7	3868.6	4470.0	5143.2	5109.5	4956.9
37.5°	4549.6	3863.0	3526.4	3452.3	3783.3	4104.2	4609.1	5411.3	5333.9	5262.1
40°	4632.7	4043.6	3749.7	3847.3	4084.0	4318.5	4737.0	5428.1	5651.4	5442.7
42.5°	4556.4	4205.2	4116.5	4349.9	4574.3	4563.1	4751.6	5558.3	5725.5	5616.6
45°	4537.3	4478.9	4696.6	4908.7	4960.3	4766.2	4647.2	5414.7	5703.0	5654.8
47.5°	4491.3	4748.2	5127.4	5473.0	5394.5	4901.9	4522.7	5388.9	5716.5	5630.1
50°	4475.6	4806.6	5446.1	5782.7	5735.6	5019.7	4464.4	5222.8	5621.1	5613.3
52.5°	4474.5	4926.6	5578.5	5951.0	5980.2	5206.0	4544.0	5307.0	5695.2	5761.4
55°	4524.9	4888.5	5561.7	5857.9	5846.6	5123.0	4553.0	5363.1	5786.1	5851.1
57.5°	4268.0	4379.1	4590.0	4824.5	4763.9	4243.3	4066.1	4958.0	5310.3	5263.2
60°	3685.7	3337.9	3100.0	3088.8	2971.0	2808.3	3327.8	4425.1	4425.1	4379.1
62.5°	3227.9	2191.2	1882.7	1795.2	1879.3	2066.7	3210.0	4303.9	4181.6	4128.9
65°	2822.9	1672.9	1361.0	1336.3	1482.1	1764.9	2902.6	3666.6	3451.2	3276.2
67.5°	1816.5	1225.2	1012.0	968.3	1144.4	1295.9	1932.0	2255.2	2119.4	2051.0
70°	1171.3	797.7	563.2	528.5	596.9	798.8	1234.2	1315.0	1117.5	1071.5
72.5°	554.3	344.4	197.5	162.7	182.9	305.2	488.1	525.1	436.5	399.4
75°	176.2	126.8	80.8	69.6	66.2	78.5	112.2	86.4	62.8	61.7
77.5°	78.5	75.2	64.0	53.9	47.1	39.3	32.5	26.9	28.0	29.2
80°	65.1	59.5	52.7	47.1	39.3	30.3	23.6	18.0	18.0	19.1
82.5°	57.2	51.6	46.0	39.3	33.7	24.7	18.0	12.3	11.2	11.2
85°	24.7	29.2	31.4	33.7	26.9	20.2	12.3	7.9	6.7	6.7
87.5°	10.1	9.0	7.9	6.7	5.6	5.6	4.5	3.4	2.2	2.2
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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