

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: P647830

Luminaire Tested: **GALN-SA3A-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7961.5 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

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

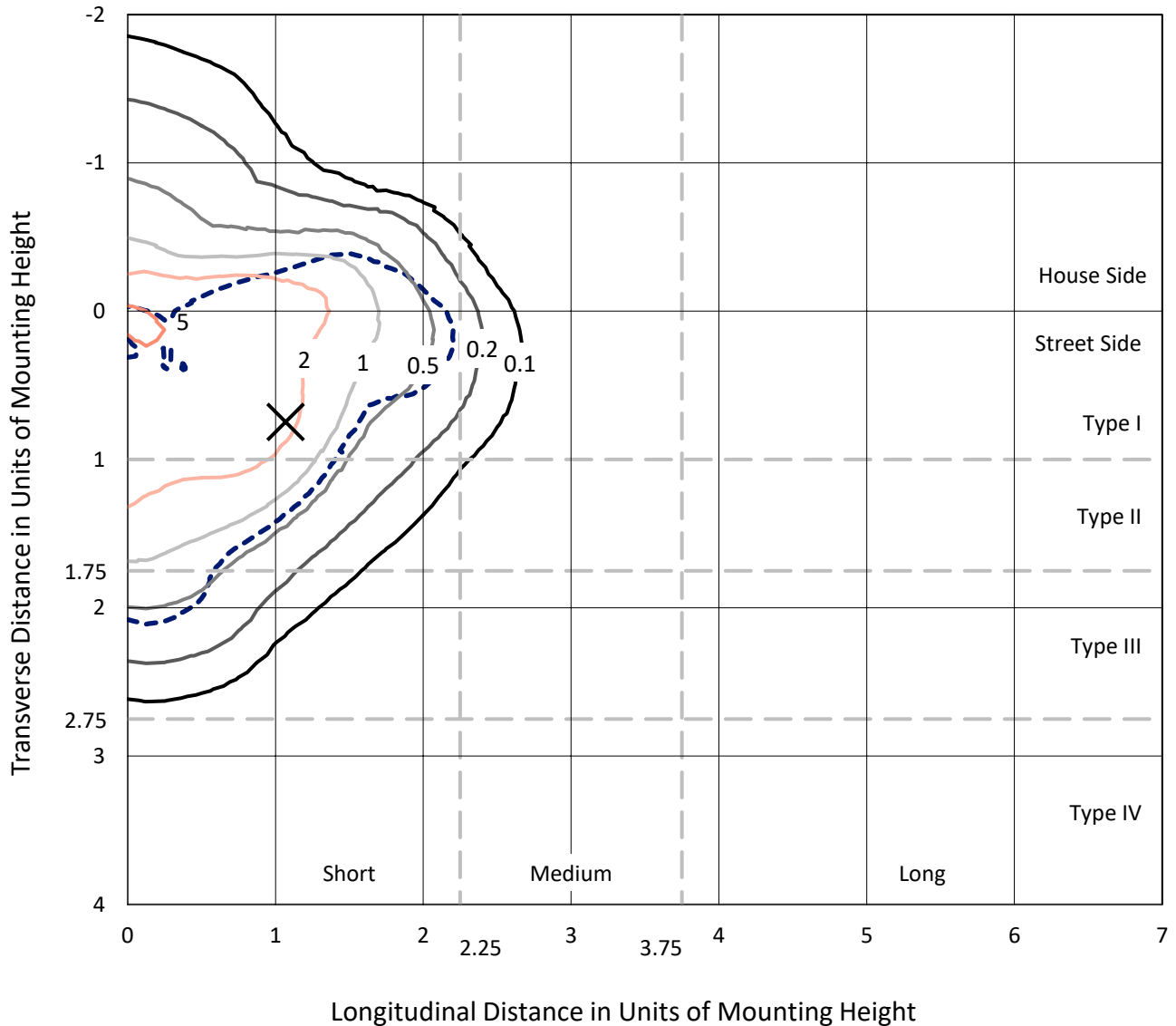




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Iso-Footcandle Lines of Horizontal Illumination

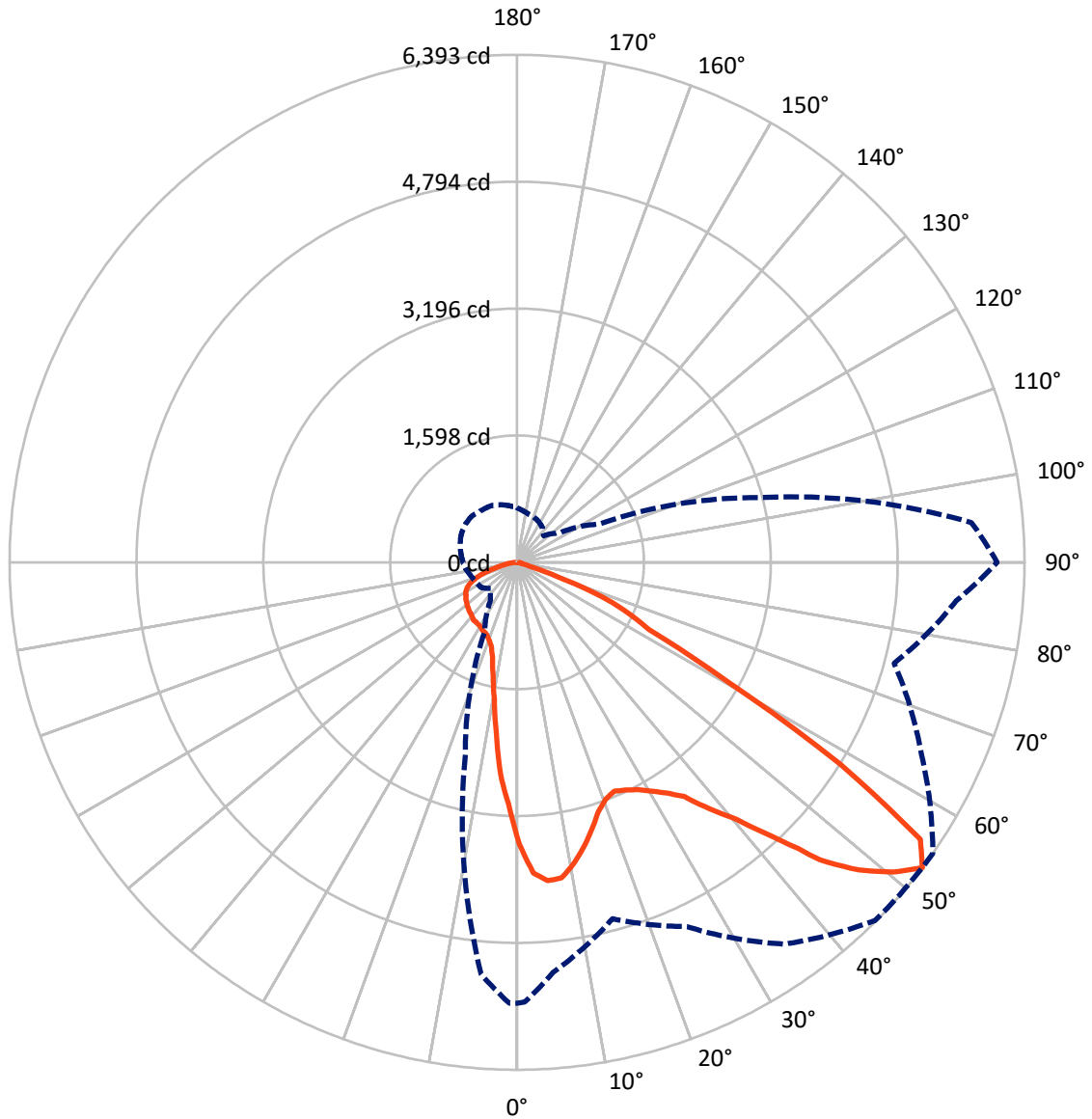
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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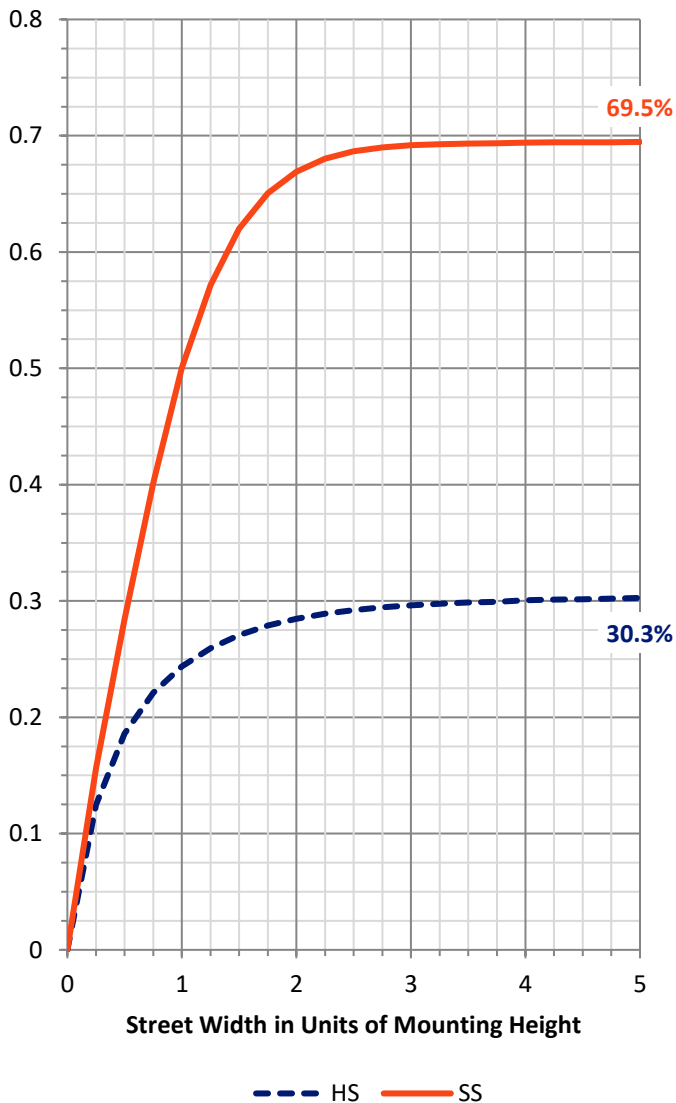
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2428.7	0.0	2428.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5532.8	0.0	5532.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	7961.5	0.0	7961.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	3.4
10°-20°	585.0	7.3
20°-30°	887.1	11.1
30°-40°	1281.7	16.1
40°-50°	1712.7	21.5
50°-60°	1911.7	24.0
60°-70°	1048.7	13.2
70°-80°	226.7	2.8
80°-90°	36.7	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°	7961.5	100.0
0°-180°	7961.5	100.0

Coefficient of Utilization



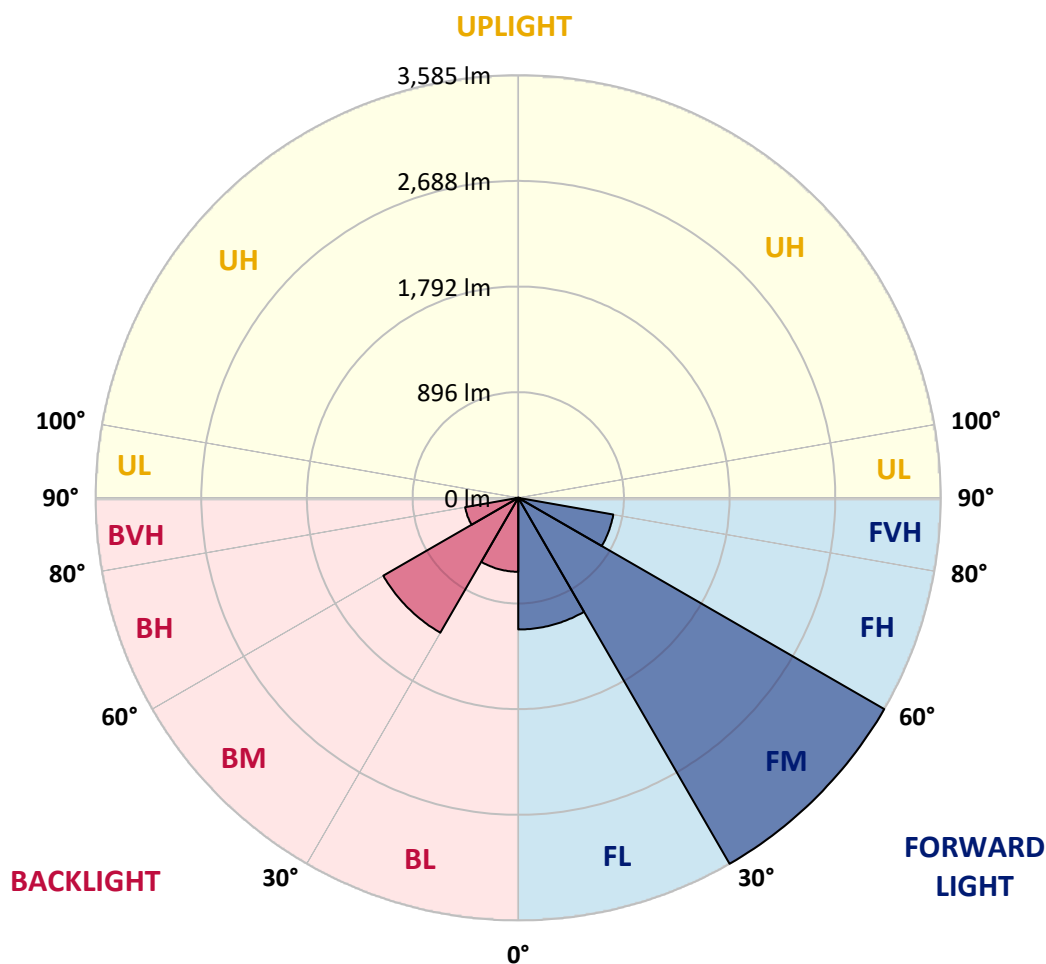
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.4	14.0			
FM (30°-60°)	3584.7	45.0			
FH (60°-80°)	818.2	10.3			G1/1800
FVH (80°-90°)	13.6	0.2			G1/100
BL (0°-30°)	627.1	7.9	B2/1000		
BM (30°-60°)	1321.4	16.6	B2/2500		
BH (60°-80°)	457.1	5.7	B1/500		G1/500
BVH (80°-90°)	23.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5
2.5°	3727.0	3706.1	3724.7	3813.1	3864.2	3899.0	3921.1	3917.7	3834.0	3752.6	3752.6
5°	3617.7	3591.0	3629.4	3829.3	4030.4	4047.9	4076.9	4029.2	3906.0	3757.2	3571.3
7.5°	3301.5	3321.3	3385.2	3647.9	3909.5	4040.9	4075.7	4015.3	3815.3	3537.5	3264.3
10°	3028.3	3074.8	3222.4	3506.1	3746.7	3917.7	3956.0	3871.2	3713.1	3372.5	3128.3
12.5°	2934.1	2905.1	3069.0	3352.6	3582.9	3674.7	3692.2	3698.0	3591.0	3288.8	2991.1
15°	2922.5	2941.2	3069.0	3284.1	3425.9	3430.6	3459.6	3504.9	3518.9	3345.7	3055.1
17.5°	3090.0	3067.9	3199.3	3370.1	3302.7	3235.3	3242.2	3307.3	3422.4	3394.5	3256.2
20°	3337.5	3387.6	3491.0	3473.5	3292.2	3121.4	3122.5	3184.1	3410.8	3596.8	3536.3
22.5°	3749.1	3797.9	3874.7	3664.2	3292.2	3087.6	3048.1	3131.8	3485.2	3837.4	3852.5
25°	4124.6	4214.1	4235.0	3987.4	3457.3	3119.0	3093.4	3176.0	3559.6	4072.3	4215.3
27.5°	4466.4	4498.9	4590.7	4195.5	3549.1	3139.9	3137.6	3243.4	3653.8	4189.7	4539.6
30°	4736.1	4732.6	4784.9	4326.9	3695.6	3257.4	3144.6	3344.5	3777.0	4383.8	4839.5
32.5°	4919.7	4959.3	5069.7	4509.4	3757.2	3368.9	3280.6	3463.1	3927.0	4475.6	5051.1
35°	5242.9	5311.5	5172.0	4610.5	3952.5	3479.4	3375.9	3624.7	4001.4	4575.6	5310.3
37.5°	5547.5	5495.2	5353.4	4665.1	4079.3	3684.0	3587.5	3937.4	4232.7	4793.1	5482.4
40°	5742.8	5741.7	5489.4	4709.4	4168.8	3996.7	3990.9	4254.7	4516.3	4930.2	5675.3
42.5°	5827.6	5909.1	5545.2	4704.7	4357.1	4375.7	4493.1	4729.1	4717.5	4958.1	5670.7
44°	5943.9	5992.8	5641.7	4715.1	4482.6	4631.4	4908.1	5058.1	4893.0	4943.0	5664.9
45°	5939.3	5942.7	5504.5	4729.1	4589.6	4845.4	5092.9	5346.4	5047.6	4910.4	5741.7
47.5°	5803.3	5763.7	5388.2	4625.7	4923.2	5410.3	5639.3	5792.8	5238.3	4840.7	5646.3
50°	5534.7	5489.4	5105.7	4581.4	4993.0	5761.4	6077.6	6133.4	5411.5	4772.1	5552.2
52.5°	5553.3	5540.5	5186.0	4647.7	5062.7	5871.8	6378.7	6392.6	5607.9	4916.2	5553.3
55°	5885.8	5841.6	5416.2	4730.3	5011.6	5742.8	6186.9	6162.4	5541.7	4829.1	5655.6
57.5°	5385.9	5415.0	5097.6	4403.6	4386.1	4668.6	4863.9	4803.5	4624.5	4358.3	5261.5
60°	4345.5	4428.0	4458.2	3682.8	3309.7	3164.3	3106.2	2999.3	3029.5	3580.5	4622.1
62.5°	3727.0	3722.4	3911.9	3338.7	2168.0	1864.6	1836.8	1861.2	2209.9	3524.8	4526.8
65°	2955.1	3034.1	3092.3	2829.5	1715.9	1384.6	1383.4	1538.0	1912.3	2945.8	3655.0
67.5°	1876.3	1979.7	2051.9	1810.1	1147.4	985.8	959.1	1145.1	1325.2	1932.1	2200.6
70°	1057.9	1106.7	1139.3	1043.9	730.1	511.5	481.3	525.5	800.9	1250.8	1304.3
72.5°	408.0	430.1	474.3	477.8	275.5	165.1	133.7	160.4	337.2	495.2	472.0
75°	62.8	67.4	95.3	113.9	79.1	60.4	64.0	66.2	94.2	127.9	107.0
77.5°	30.2	30.2	29.0	33.7	39.5	43.0	46.5	51.1	55.8	61.6	59.3
80°	19.7	19.7	19.7	23.3	29.0	34.8	39.5	41.8	44.2	48.9	46.5
82.5°	12.8	12.8	12.8	17.5	23.3	29.0	31.4	37.2	41.8	48.9	45.3
85°	7.0	7.0	7.0	11.6	17.5	24.4	23.3	18.6	10.5	1.2	2.3
87.5°	2.3	2.3	2.3	2.3	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°	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5
2.5°	3655.0	3601.5	3596.8	3487.6	3389.8	3342.2	3303.9	3196.9	3220.2	3158.5	3157.4
5°	3478.2	3368.9	3192.2	3047.0	2901.6	2872.6	2745.8	2635.4	2638.9	2559.9	2573.8
7.5°	3160.9	3085.3	2870.2	2642.4	2449.4	2312.2	2192.5	2120.4	2028.6	1997.2	1980.9
10°	2959.7	2866.7	2624.9	2339.0	2122.7	2049.5	1934.4	1870.5	1776.3	1729.8	1697.2
12.5°	2871.4	2735.4	2433.1	2142.5	1998.4	1922.8	1825.2	1708.9	1597.3	1554.3	1495.0
15°	2880.7	2717.9	2377.3	2063.4	1890.2	1743.7	1656.6	1527.6	1413.6	1338.1	1295.0
17.5°	3021.4	2823.7	2402.9	2003.0	1754.2	1570.5	1399.7	1260.2	1169.5	1112.5	1098.5
20°	3353.8	3085.3	2445.9	1905.4	1618.2	1389.2	1178.8	1033.5	963.7	962.5	963.7
22.5°	3630.5	3364.3	2533.1	1847.3	1482.2	1156.7	947.4	900.9	887.0	916.0	919.6
25°	4003.7	3678.1	2683.1	1817.0	1356.6	985.8	856.8	839.3	838.2	875.4	876.6
27.5°	4386.1	3952.5	2772.6	1728.6	1228.8	897.5	802.1	798.7	817.2	856.8	853.3
30°	4646.6	4182.7	2934.1	1622.8	1077.6	819.6	780.0	784.7	810.2	840.5	845.2
32.5°	4950.0	4409.4	2976.0	1564.7	984.6	754.5	726.5	737.0	769.6	817.2	842.8
35°	5297.5	4569.8	3040.0	1485.7	949.8	704.5	690.5	702.2	741.7	773.1	800.9
37.5°	5554.4	4853.5	3051.6	1424.0	911.4	676.6	654.5	692.9	716.1	760.3	774.2
40°	5745.1	5059.3	3081.8	1385.7	881.2	640.6	640.6	666.1	697.5	738.2	766.1
42.5°	5867.2	5209.2	3103.9	1350.8	823.1	630.1	624.3	649.8	691.7	731.2	744.0
44°	5941.6	5273.1	3081.8	1318.3	806.8	617.3	617.3	639.4	671.9	718.4	733.5
45°	5960.2	5353.4	3033.0	1317.1	787.0	602.2	599.9	641.7	663.8	720.8	730.1
47.5°	6032.2	5452.2	3038.8	1279.9	739.4	566.1	606.8	625.5	645.2	695.1	726.5
50°	6030.0	5513.8	3026.0	1225.3	704.5	525.5	592.9	613.8	633.6	684.7	697.5
52.5°	6046.2	5743.9	3143.4	1138.1	641.7	473.2	546.4	592.9	617.3	660.3	687.0
55°	6038.1	5875.3	3259.7	1073.0	553.3	441.8	506.8	561.5	596.3	641.7	654.5
57.5°	5514.9	5192.9	3016.7	951.0	458.1	404.6	451.1	528.9	573.2	619.6	635.9
60°	4505.9	4002.5	2487.7	699.8	376.6	372.0	419.7	518.5	537.1	577.8	605.7
62.5°	4164.1	3510.8	1972.8	534.8	322.0	340.6	387.1	468.5	497.5	547.6	573.2
65°	3258.5	2332.0	1221.8	361.5	283.7	305.8	349.9	410.4	458.1	504.6	534.8
67.5°	1929.8	1274.1	604.5	253.5	247.6	270.8	316.2	361.5	416.2	467.3	482.4
70°	1050.9	626.6	258.1	193.0	210.4	231.4	275.5	306.9	359.2	398.7	424.3
72.5°	337.2	190.7	129.0	143.0	160.4	184.9	211.6	249.9	287.1	310.4	331.3
75°	81.4	80.2	91.8	100.0	116.3	134.8	156.9	176.7	205.8	227.9	246.5
77.5°	56.9	61.6	70.9	82.5	88.3	95.3	109.3	124.4	137.2	153.5	165.1
80°	44.2	47.7	54.7	60.4	66.2	72.1	79.1	84.9	93.0	103.4	109.3
82.5°	41.8	44.2	51.1	54.7	52.3	51.1	55.8	58.1	59.3	62.8	66.2
85°	3.5	0.0	2.3	8.1	19.7	29.0	31.4	31.4	30.2	32.6	32.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.6	3.5
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°	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5
2.5°	3143.4	3103.9	3119.0	3137.6	3110.9	3049.2	3065.5	3058.6	3121.4	3116.7	3179.4
5°	2635.4	2573.8	2580.8	2671.4	2642.4	2673.8	2611.0	2602.8	2614.5	2620.3	2630.7
7.5°	2016.9	2008.8	2078.6	2155.3	2191.3	2154.1	2092.5	2078.6	2065.8	2040.2	2098.4
10°	1646.1	1648.4	1643.8	1701.9	1742.6	1734.5	1697.2	1692.6	1668.2	1658.9	1691.4
12.5°	1469.4	1438.1	1422.9	1404.3	1435.7	1456.6	1440.3	1428.7	1429.9	1441.5	1446.1
15°	1298.5	1278.8	1246.2	1225.3	1240.4	1229.9	1224.1	1247.4	1241.5	1239.3	1267.1
17.5°	1106.7	1123.0	1120.6	1097.4	1117.2	1109.0	1107.9	1091.6	1069.5	1053.2	1062.5
20°	980.0	1010.2	1033.5	1034.7	1045.1	1043.9	1026.5	976.5	960.3	956.7	959.1
22.5°	934.7	951.0	978.8	1018.4	1018.4	999.7	978.8	920.7	905.6	889.3	882.4
25°	898.6	930.0	966.1	970.7	989.3	971.9	938.1	909.1	877.7	855.6	855.6
27.5°	880.0	914.9	941.6	949.8	975.4	961.4	926.5	889.3	852.1	851.0	831.2
30°	871.9	904.4	921.9	941.6	953.2	931.1	920.7	881.2	844.0	834.7	802.1
32.5°	847.4	894.0	926.5	921.9	931.1	921.9	906.8	874.2	832.3	811.4	808.0
35°	819.6	866.1	900.9	925.3	931.1	911.4	902.1	857.9	800.9	790.5	754.5
37.5°	804.5	832.3	875.4	914.9	923.0	912.6	881.2	835.9	778.9	767.3	735.9
40°	785.8	821.9	855.6	888.2	912.6	887.0	851.0	806.8	781.2	746.4	737.0
42.5°	771.9	812.6	840.5	876.6	904.4	870.7	828.9	798.7	762.6	739.4	712.6
44°	767.3	804.5	823.1	867.3	890.5	864.9	830.1	798.7	756.8	735.9	712.6
45°	751.0	802.1	821.9	861.5	881.2	860.3	816.0	784.7	754.5	728.9	704.5
47.5°	734.7	769.6	803.3	834.7	848.6	841.6	804.5	766.1	730.1	715.0	691.7
50°	730.1	764.9	796.3	825.4	841.6	827.7	794.0	756.8	715.0	690.5	670.8
52.5°	706.8	749.8	784.7	794.0	814.9	806.8	781.2	740.5	701.0	680.0	663.8
55°	673.1	718.4	766.1	777.8	808.0	795.1	756.8	718.4	684.7	653.3	632.4
57.5°	660.3	704.5	751.0	766.1	784.7	763.7	754.5	713.8	660.3	644.0	611.4
60°	627.7	683.6	721.9	756.8	757.9	752.1	735.9	689.4	645.2	615.0	591.7
62.5°	602.2	654.5	684.7	717.3	737.0	720.8	704.5	661.5	613.8	580.1	553.3
65°	565.0	612.6	638.2	658.0	680.0	677.8	649.8	618.5	568.5	541.8	516.2
67.5°	508.0	549.9	584.7	603.4	617.3	613.8	592.9	570.8	519.7	492.9	474.3
70°	439.4	482.4	504.6	515.0	528.9	535.9	519.7	509.2	463.8	428.9	411.5
72.5°	353.4	381.3	413.8	423.1	428.9	433.6	433.6	424.3	377.8	363.9	333.6
75°	260.4	282.5	306.9	306.9	317.3	318.5	320.9	315.0	280.2	261.6	254.6
77.5°	176.7	193.0	212.7	220.9	227.9	226.7	225.5	209.2	190.7	182.5	175.5
80°	115.1	131.4	140.6	151.1	158.1	156.9	159.3	147.7	139.5	125.5	127.9
82.5°	68.6	81.4	90.7	103.4	103.4	107.0	107.0	103.4	95.3	88.3	88.3
85°	32.6	43.0	48.9	56.9	61.6	62.8	55.8	47.7	39.5	36.0	39.5
87.5°	5.8	8.1	11.6	10.5	12.8	11.6	11.6	11.6	11.6	9.3	10.5
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°	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5	3551.5
2.5°	3156.2	3214.4	3255.0	3322.4	3438.7	3531.7	3627.0	3698.0	3706.1	3727.0
5°	2669.1	2700.5	2804.0	2938.8	3034.1	3191.1	3292.2	3475.9	3544.5	3617.7
7.5°	2084.3	2135.6	2273.8	2364.6	2573.8	2770.3	2973.7	3200.4	3291.0	3301.5
10°	1757.7	1832.1	1926.3	2071.6	2185.5	2404.0	2657.5	2909.8	3010.9	3028.3
12.5°	1543.8	1639.1	1764.7	1869.3	1978.6	2169.2	2412.2	2723.7	2855.1	2934.1
15°	1338.1	1436.9	1575.2	1720.5	1817.0	2044.9	2330.8	2681.9	2852.8	2922.5
17.5°	1126.5	1218.3	1332.2	1489.2	1683.3	1939.1	2318.1	2821.4	3008.6	3090.0
20°	945.1	996.3	1128.8	1290.4	1533.3	1831.0	2322.7	3027.2	3301.5	3337.5
22.5°	874.2	885.8	938.1	1087.0	1353.2	1720.5	2405.2	3319.0	3630.5	3749.1
25°	819.6	817.2	831.2	931.1	1221.8	1677.5	2486.6	3587.5	3995.6	4124.6
27.5°	789.3	766.1	767.3	861.5	1128.8	1607.7	2591.3	3895.6	4409.4	4466.4
30°	774.2	769.6	755.6	794.0	1027.7	1503.1	2608.6	4199.0	4653.5	4736.1
32.5°	764.9	719.6	702.2	716.1	932.3	1389.2	2673.8	4399.0	4955.8	4919.7
35°	718.4	677.8	666.1	680.0	864.9	1325.2	2630.7	4573.3	5182.4	5242.9
37.5°	701.0	664.9	641.7	630.1	802.1	1271.7	2608.6	4841.8	5402.2	5547.5
40°	684.7	646.4	618.5	606.8	753.3	1200.9	2601.7	5048.8	5655.6	5742.8
42.5°	666.1	641.7	610.3	589.4	694.1	1129.9	2521.5	5112.7	5733.5	5827.6
44°	660.3	623.1	590.5	583.6	670.8	1093.9	2505.2	5170.9	5800.9	5943.9
45°	654.5	619.6	582.4	573.2	662.7	1074.1	2483.1	5184.8	5912.5	5939.3
47.5°	638.2	616.1	580.1	554.5	645.2	1031.1	2416.9	5105.7	5798.6	5803.3
50°	625.5	599.9	562.7	512.6	621.9	995.1	2447.1	5076.7	5524.2	5534.7
52.5°	611.4	573.2	552.2	466.2	583.6	964.9	2511.0	5208.0	5555.6	5553.3
55°	595.2	553.3	502.2	426.7	519.7	926.5	2665.6	5467.3	5846.3	5885.8
57.5°	569.6	533.6	460.3	391.7	446.4	853.3	2615.6	4970.9	5378.9	5385.9
60°	535.9	502.2	417.3	365.0	366.2	673.1	2339.0	3873.5	4244.3	4345.5
62.5°	503.4	484.8	381.3	326.7	311.6	535.9	1977.5	3219.0	3643.3	3727.0
65°	465.0	419.7	349.9	297.6	267.4	375.5	1400.8	2405.2	2842.4	2955.1
67.5°	416.2	367.4	308.0	261.6	229.0	251.1	723.1	1367.1	1810.1	1876.3
70°	363.9	318.5	259.3	220.9	184.9	173.2	318.5	652.2	989.3	1057.9
72.5°	298.8	256.9	206.9	174.4	138.4	119.7	107.0	174.4	351.1	408.0
75°	216.3	187.1	155.7	124.4	97.6	76.7	62.8	52.3	58.1	62.8
77.5°	159.3	136.0	115.1	88.3	68.6	54.7	43.0	32.6	31.4	30.2
80°	124.4	110.4	91.8	70.9	53.5	40.7	30.2	22.1	19.7	19.7
82.5°	97.6	90.7	75.6	58.1	44.2	32.6	22.1	15.1	12.8	12.8
85°	37.2	37.2	54.7	47.7	33.7	23.3	15.1	8.1	7.0	7.0
87.5°	9.3	9.3	9.3	9.3	8.1	7.0	7.0	3.5	2.3	2.3
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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