

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: P527042

Luminaire Tested: **GALN-SA2A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527042
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-SA2A-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 6380 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

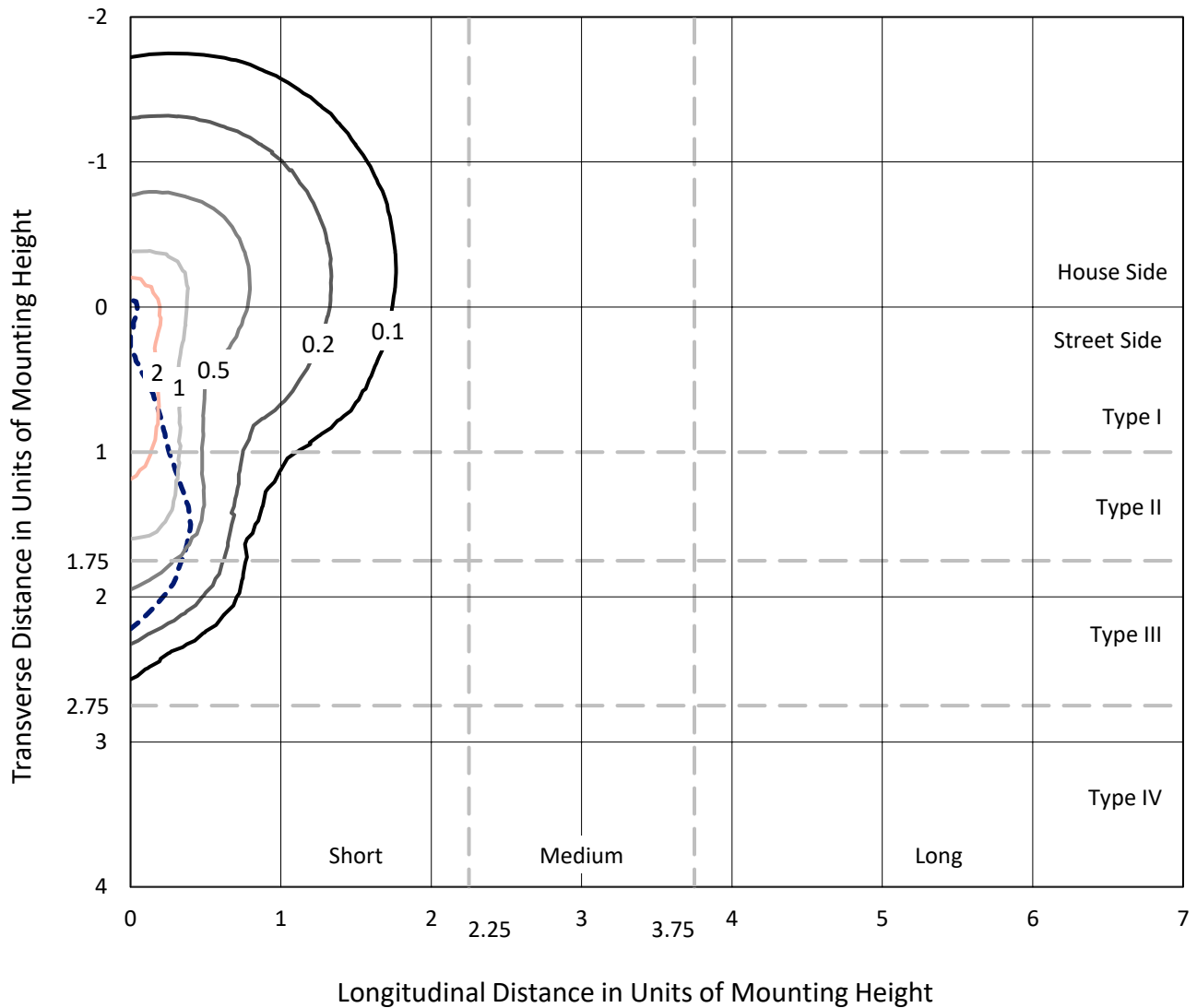
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

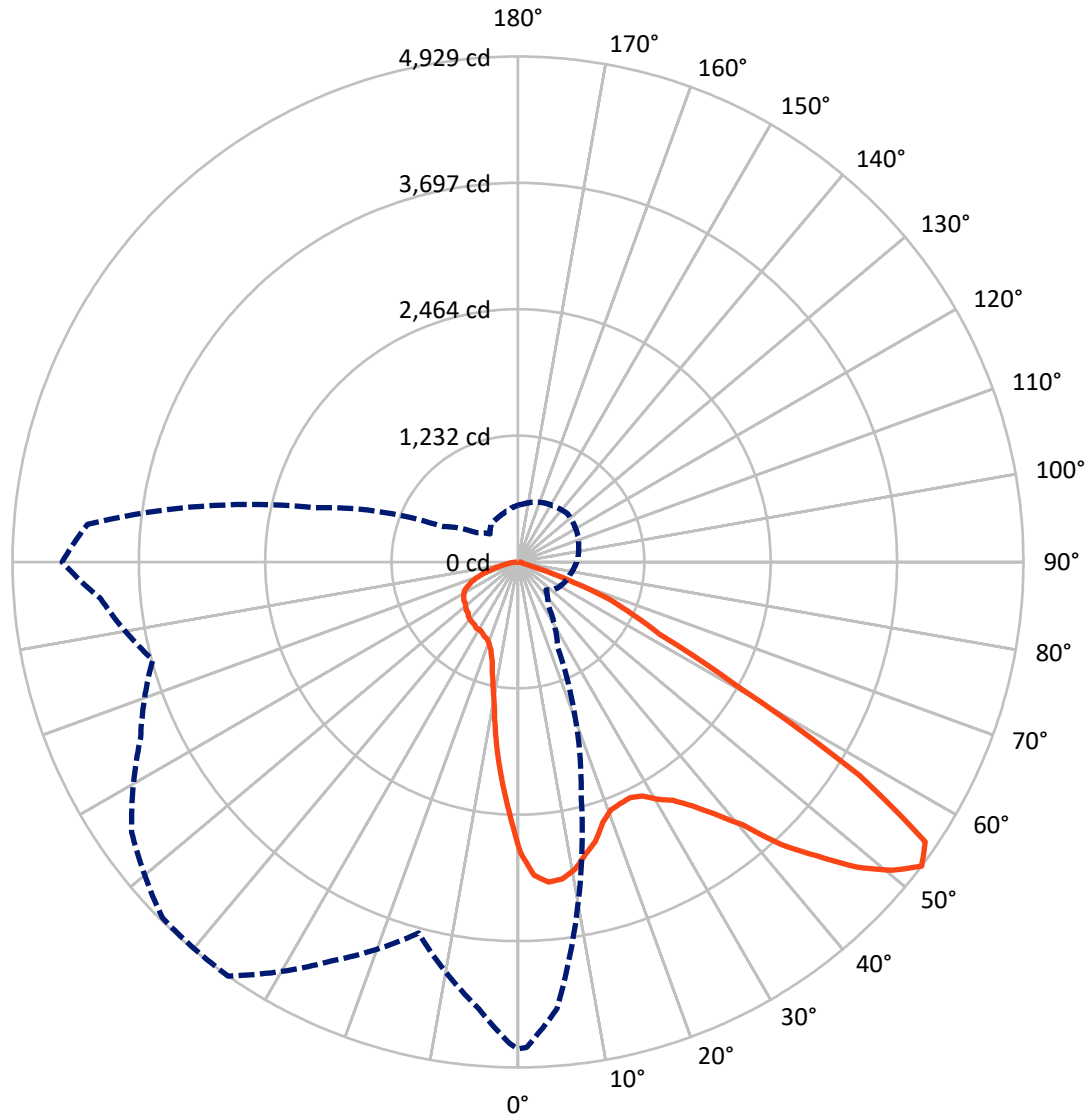
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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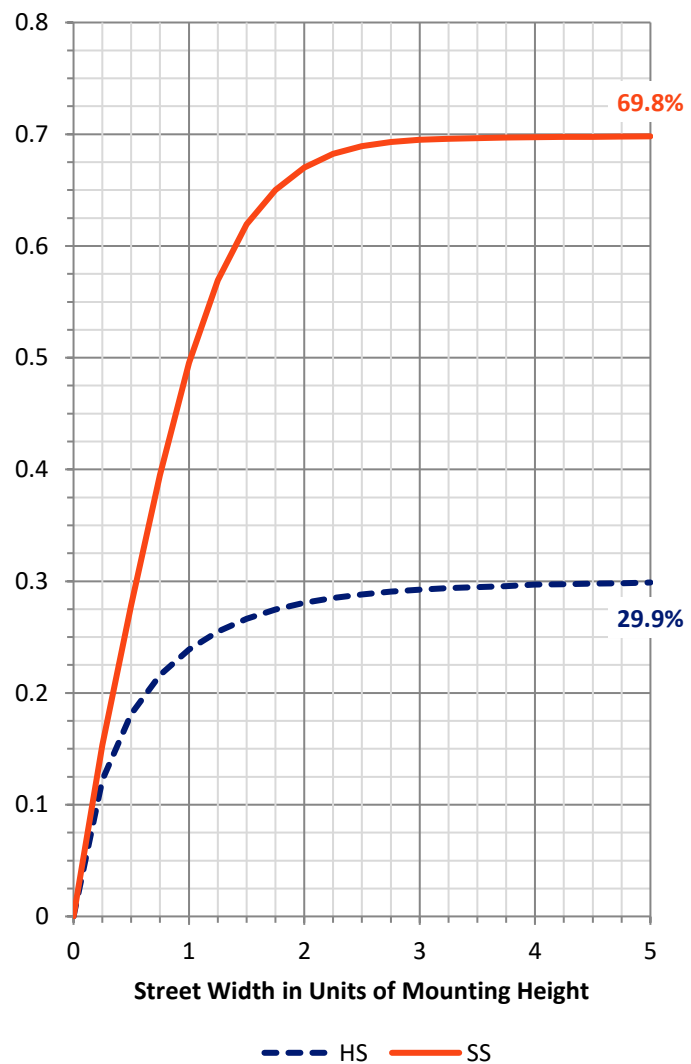
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.3	0.0	1923.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	4456.7	0.0	4456.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	6380.0	0.0	6380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	3.4
10°-20°	468.3	7.3
20°-30°	707.6	11.1
30°-40°	1022.4	16.0
40°-50°	1360.7	21.3
50°-60°	1522.0	23.9
60°-70°	857.8	13.4
70°-80°	191.2	3.0
80°-90°	34.0	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°	6380.0	100.0
0°-180°	6380.0	100.0



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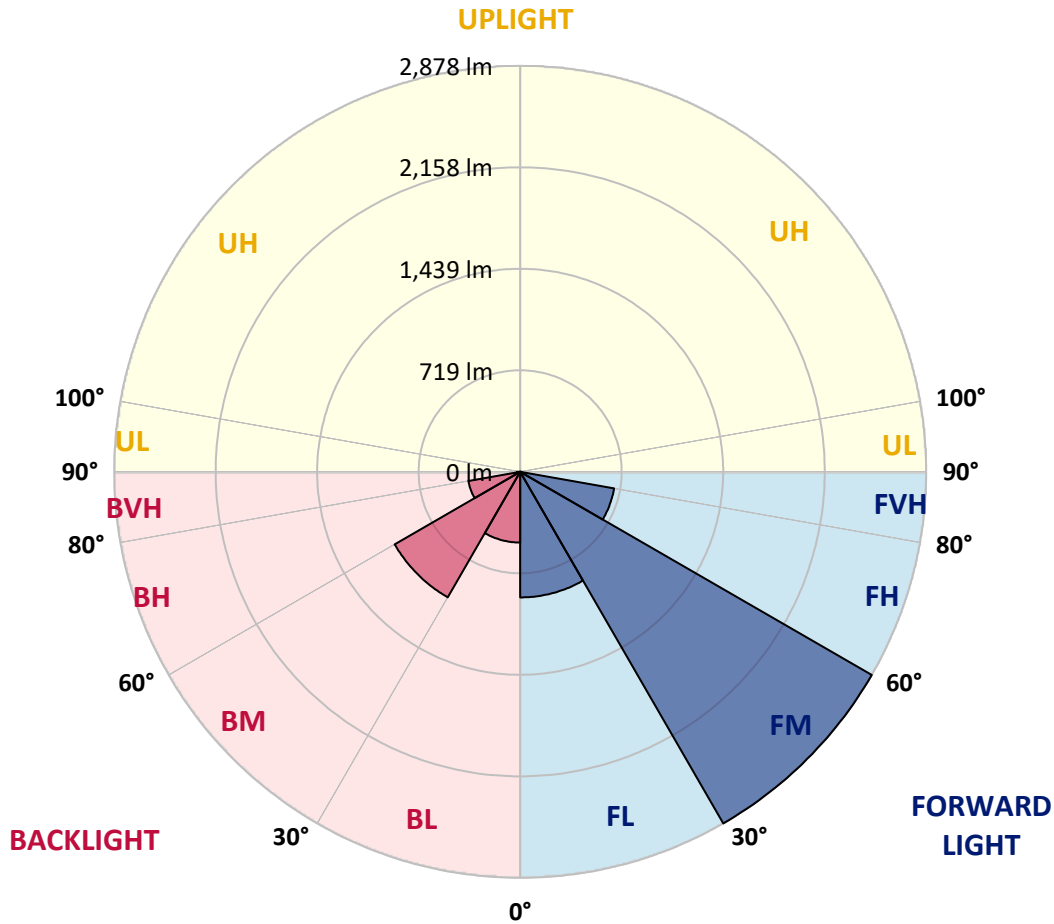
CATALOG NUMBER: GALN-SA2A-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.3	14.0			
FM (30°-60°)	2877.9	45.1			
FH (60°-80°)	676.2	10.6			G1/1800
FVH (80°-90°)	12.3	0.2			G1/100
BL (0°-30°)	501.6	7.9	B2/1000		
BM (30°-60°)	1027.2	16.1	B2/2500		
BH (60°-80°)	372.8	5.8	B1/500		G1/500
BVH (80°-90°)	21.7	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°	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5
2.5°	2878.6	2924.9	2874.9	2786.2	2723.3	2666.0	2605.9	2593.8	2515.2	2501.4	2444.0
5°	2715.0	2704.8	2643.8	2527.3	2398.7	2282.2	2196.2	2113.0	2056.6	1990.9	1986.3
7.5°	2516.2	2457.0	2421.8	2245.2	2086.2	1903.1	1824.5	1697.8	1658.0	1598.8	1568.3
10°	2338.6	2295.1	2212.8	2036.2	1814.3	1693.2	1609.0	1540.6	1494.3	1433.3	1356.6
12.5°	2250.8	2233.2	2140.7	1867.0	1702.4	1572.9	1513.8	1447.2	1368.6	1270.6	1232.6
15°	2266.5	2207.3	2137.0	1834.6	1607.2	1482.3	1388.0	1304.8	1204.0	1110.6	1056.0
17.5°	2383.9	2338.6	2198.1	1855.0	1571.1	1390.8	1219.7	1096.7	1006.1	921.9	884.0
20°	2615.1	2549.4	2391.3	1880.9	1493.4	1263.2	1067.1	915.5	818.4	774.0	761.0
22.5°	2871.2	2832.4	2580.0	1939.1	1431.5	1144.8	905.3	753.6	717.6	705.6	729.6
25°	3182.9	3082.1	2873.1	2034.4	1383.4	1044.0	768.4	684.3	665.8	677.8	705.6
27.5°	3419.6	3392.8	3078.4	2124.1	1317.7	922.9	691.7	636.2	641.8	653.8	679.7
30°	3700.7	3564.8	3277.2	2186.0	1258.5	839.6	638.1	623.3	628.8	649.2	662.1
32.5°	3869.9	3819.1	3402.0	2279.4	1190.1	767.5	596.4	582.6	590.9	621.4	651.9
35°	4085.4	3984.6	3556.5	2303.5	1142.0	738.8	566.9	556.7	576.1	597.4	631.6
37.5°	4336.9	4267.6	3770.1	2286.8	1116.1	709.3	541.9	537.3	551.1	580.7	620.5
40°	4485.8	4464.5	3882.0	2297.0	1075.4	683.4	513.2	518.8	547.4	570.6	609.4
42.5°	4629.1	4490.4	4047.5	2293.3	1049.6	648.2	516.0	509.5	531.7	558.5	595.5
45°	4660.6	4522.8	4086.3	2267.4	1018.1	614.0	494.7	497.5	524.3	557.6	581.6
47.5°	4640.2	4538.5	4158.5	2260.0	988.5	590.0	463.3	496.6	512.3	539.1	573.3
50°	4626.4	4620.8	4219.5	2295.1	948.8	552.1	425.4	484.6	500.3	527.1	564.1
52.5°	4748.4	4736.4	4372.1	2387.6	917.3	511.4	386.5	454.0	491.9	517.8	553.9
55°	4822.4	4769.7	4633.8	2501.4	864.6	457.7	359.7	416.1	471.6	494.7	531.7
57.5°	4337.8	4301.8	4191.7	2334.9	775.8	387.5	326.4	377.3	443.9	479.9	517.8
60°	3609.2	3552.8	3270.7	1984.4	572.4	301.5	306.1	346.8	436.5	450.3	494.7
62.5°	3403.0	3263.3	2879.6	1597.0	439.2	258.9	274.6	319.0	397.6	420.7	465.1
65°	2700.2	2596.6	2060.3	1153.1	294.1	224.7	250.6	287.6	343.1	388.4	429.1
67.5°	1690.4	1591.4	1099.5	545.6	205.3	192.3	223.8	262.6	307.9	348.6	393.9
70°	883.1	774.9	507.7	197.0	141.5	157.2	186.8	223.8	268.2	301.5	336.6
72.5°	329.2	267.2	165.5	85.1	98.0	120.2	151.7	178.5	209.9	250.6	270.0
75°	50.9	43.5	42.5	51.8	66.6	86.9	108.2	135.0	162.8	188.6	201.6
77.5°	24.0	23.1	25.9	34.2	44.4	62.0	78.6	104.5	126.7	143.3	150.7
80°	15.7	14.8	16.6	23.1	33.3	46.2	62.9	80.5	100.8	114.7	112.8
82.5°	9.2	10.2	10.2	15.7	23.1	33.3	45.3	61.0	74.9	86.9	79.5
85°	5.5	4.6	4.6	9.2	15.7	26.8	37.9	25.9	26.8	26.8	30.5
87.5°	1.8	1.8	1.8	0.9	1.8	1.8	2.8	4.6	5.5	6.5	8.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5
2.5°	2442.2	2470.8	2460.7	2424.6	2452.3	2457.0	2438.5	2502.3	2514.3	2494.9	2500.4
5°	1979.8	1987.2	2003.9	2039.0	2064.0	2093.6	2093.6	2095.4	2070.4	2133.3	2114.8
7.5°	1542.4	1547.1	1566.5	1641.4	1662.6	1719.0	1743.1	1726.4	1676.5	1655.2	1672.8
10°	1331.6	1304.8	1298.3	1307.5	1355.6	1379.7	1400.0	1394.5	1386.2	1369.5	1351.0
12.5°	1191.0	1171.6	1155.9	1133.7	1136.5	1159.6	1175.3	1162.4	1166.1	1169.8	1175.3
15°	1038.5	1024.6	1016.3	983.0	979.3	995.0	1000.5	1007.9	1021.8	1022.7	1016.3
17.5°	876.6	864.6	883.1	901.6	888.7	889.6	899.7	906.2	902.5	885.9	877.6
20°	765.7	778.6	797.1	814.7	828.5	836.9	840.6	830.4	818.4	784.2	783.2
22.5°	733.3	749.9	765.7	792.5	805.4	826.7	807.3	784.2	767.5	750.9	731.5
25°	709.3	723.1	754.6	764.7	789.7	807.3	793.4	770.3	741.6	717.6	702.8
27.5°	691.7	707.4	727.8	755.5	774.9	785.1	771.2	762.0	732.4	703.7	682.4
30°	680.6	697.2	734.2	757.3	774.0	782.3	758.3	747.2	725.9	701.9	683.4
32.5°	673.2	688.0	719.4	749.0	760.1	760.1	763.8	750.9	721.3	680.6	664.9
35°	649.2	669.5	695.4	729.6	749.9	762.0	743.5	728.7	709.3	667.6	639.0
37.5°	635.3	649.2	682.4	714.8	732.4	745.3	737.9	712.0	686.1	651.9	628.8
40°	620.5	642.7	672.3	702.8	722.2	735.1	729.6	699.1	667.6	635.3	619.6
42.5°	610.3	625.1	655.6	689.8	713.0	737.9	721.3	683.4	661.2	616.8	599.2
45°	602.0	626.0	658.4	672.3	696.3	722.2	692.6	669.5	643.6	611.2	596.4
47.5°	591.8	614.0	635.3	672.3	683.4	695.4	689.8	652.9	630.7	595.5	585.3
50°	588.1	596.4	635.3	655.6	671.3	683.4	668.6	640.8	619.6	583.5	561.3
52.5°	573.3	589.0	614.0	640.8	660.2	675.0	651.0	633.4	604.8	566.9	553.0
55°	554.8	564.1	608.5	636.2	646.4	656.5	647.3	618.6	589.0	550.2	536.3
57.5°	530.8	552.1	588.1	627.0	639.9	645.5	630.7	607.5	570.6	536.3	514.1
60°	505.8	528.0	567.8	599.2	612.2	632.5	610.3	596.4	553.9	516.0	491.9
62.5°	480.9	505.8	535.4	575.2	586.3	594.6	589.0	569.6	535.4	492.9	463.3
65°	451.3	469.8	506.7	527.1	534.5	553.9	534.5	527.1	496.6	455.9	430.9
67.5°	406.9	422.6	455.0	474.4	479.9	488.3	487.3	479.0	444.8	417.0	394.9
70°	356.0	369.9	390.2	413.3	416.1	426.3	417.0	415.2	393.0	355.1	343.1
72.5°	285.7	298.7	325.5	335.7	336.6	340.3	335.7	329.2	323.7	283.9	271.9
75°	219.2	226.6	239.5	248.7	248.7	253.4	250.6	244.1	229.3	204.4	192.3
77.5°	152.6	160.0	176.6	182.2	181.2	183.1	174.8	168.3	146.1	133.2	123.0
80°	111.0	115.6	123.9	127.6	128.5	131.3	121.1	115.6	102.6	87.8	83.2
82.5°	80.5	83.2	84.1	88.8	88.8	84.1	81.4	75.8	66.6	57.3	53.6
85°	33.3	34.2	35.1	40.7	41.6	49.9	46.2	43.5	37.9	32.4	29.6
87.5°	8.3	9.2	12.0	10.2	12.0	12.0	12.9	14.8	14.8	12.0	12.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5
2.5°	2521.7	2529.1	2623.4	2635.4	2681.7	2728.8	2824.1	2892.5	2948.0	2984.1	2994.2
5°	2134.2	2181.4	2224.9	2295.1	2359.0	2449.6	2554.1	2683.5	2846.3	2929.5	2962.8
7.5°	1671.0	1726.4	1789.3	1857.8	1951.2	2113.9	2253.5	2403.3	2611.4	2697.4	2827.8
10°	1364.0	1425.9	1509.1	1561.8	1674.7	1830.0	1992.8	2165.7	2364.5	2488.4	2639.1
12.5°	1205.8	1256.7	1333.4	1444.4	1528.6	1629.4	1750.5	1968.7	2253.5	2371.0	2474.5
15°	1031.1	1087.5	1176.2	1299.2	1400.0	1520.2	1656.2	1893.8	2197.1	2378.4	2466.2
17.5°	886.8	927.5	1020.9	1127.2	1242.8	1374.1	1569.2	1890.1	2256.3	2488.4	2631.7
20°	786.9	792.5	843.3	934.0	1091.2	1262.2	1515.6	1871.6	2445.9	2678.0	2859.2
22.5°	724.1	718.5	719.4	796.2	906.2	1152.2	1431.5	1934.5	2661.3	2979.4	3101.5
25°	692.6	677.8	668.6	685.2	785.1	1021.8	1367.7	2017.7	2893.4	3228.2	3378.0
27.5°	676.0	650.1	631.6	634.4	707.4	956.2	1327.9	2053.8	3123.7	3575.0	3627.7
30°	669.5	637.1	610.3	601.1	649.2	864.6	1242.8	2115.8	3329.9	3765.4	3810.8
32.5°	646.4	606.6	580.7	572.4	591.8	784.2	1181.8	2160.1	3512.1	3972.6	3956.9
35°	619.6	586.3	553.9	538.2	552.1	732.4	1132.8	2138.9	3726.6	4133.5	4125.2
37.5°	616.8	573.3	546.5	520.6	519.7	668.6	1066.2	2159.2	3863.5	4422.0	4308.3
40°	592.7	565.0	529.9	508.6	496.6	636.2	1001.5	2111.1	4064.1	4538.5	4426.6
42.5°	593.7	552.1	521.5	496.6	484.6	589.0	957.1	2098.2	4134.4	4728.1	4482.1
45°	578.9	538.2	512.3	482.7	476.2	553.0	914.5	2038.1	4258.3	4737.3	4412.7
47.5°	564.1	528.0	500.3	465.1	450.3	540.0	881.3	1988.1	4193.6	4650.4	4316.6
50°	553.9	512.3	486.4	461.4	419.8	517.8	837.8	1976.1	4103.0	4533.0	4138.1
52.5°	536.3	499.3	472.5	453.1	386.5	497.5	821.1	2046.4	4213.9	4445.1	4086.3
55°	519.7	481.8	447.6	409.6	358.8	443.9	774.9	2112.1	4375.8	4647.6	4321.2
57.5°	502.1	466.1	429.1	383.8	332.0	388.4	726.8	2124.1	4072.5	4295.3	4102.0
60°	479.0	432.8	405.0	345.8	303.3	321.8	576.1	1872.6	3158.8	3587.0	3593.4
62.5°	453.1	403.2	379.1	309.8	273.7	277.4	469.8	1573.9	2562.4	2969.3	3145.9
65°	418.9	370.8	342.1	286.7	252.4	240.4	344.0	1153.1	1946.5	2408.9	2609.6
67.5°	374.5	329.2	293.1	249.7	225.6	206.2	234.9	649.2	1149.4	1617.3	1678.4
70°	327.3	288.5	250.6	214.5	187.7	173.8	172.0	287.6	549.3	870.2	990.4
72.5°	258.0	230.3	199.7	172.9	155.4	135.0	123.0	119.3	185.9	354.2	489.2
75°	184.9	161.8	144.3	126.7	113.7	102.6	93.4	85.1	77.7	88.8	122.1
77.5°	116.5	108.2	94.3	89.7	82.3	79.5	75.8	71.2	65.7	62.0	62.0
80°	78.6	73.1	68.4	67.5	64.7	63.8	64.7	60.1	54.6	49.9	51.8
82.5°	52.7	51.8	50.9	49.9	50.9	51.8	53.6	52.7	48.1	45.3	46.2
85°	31.4	33.3	35.1	37.0	40.7	36.1	29.6	25.0	22.2	20.3	19.4
87.5°	12.0	16.6	14.8	13.9	14.8	13.9	12.9	12.0	10.2	9.2	9.2
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°	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5
2.5°	3061.7	3080.2	3096.0	3092.3	3059.9	3016.4	2998.9	2909.2	2890.7	2878.6
5°	3103.3	3210.6	3233.7	3219.9	3135.7	3029.4	2925.8	2794.5	2717.7	2715.0
7.5°	3026.6	3158.8	3200.4	3231.9	3120.0	2935.1	2757.5	2560.5	2512.5	2516.2
10°	2831.5	3042.3	3145.0	3177.3	3048.8	2888.8	2642.8	2443.1	2340.5	2338.6
12.5°	2723.3	2888.8	2917.5	2962.8	2924.9	2763.1	2576.3	2352.5	2252.6	2250.8
15°	2627.1	2736.2	2744.6	2808.4	2828.7	2719.6	2593.8	2355.3	2274.8	2266.5
17.5°	2711.3	2635.4	2604.0	2612.3	2672.4	2712.2	2695.5	2512.5	2430.2	2383.9
20°	2767.7	2598.5	2503.2	2512.5	2583.7	2728.8	2847.2	2739.9	2609.6	2615.1
22.5°	2918.4	2604.0	2455.1	2445.0	2557.8	2815.8	3018.3	3027.5	2901.8	2871.2
25°	3144.0	2667.8	2440.3	2437.6	2545.7	2909.2	3218.0	3367.8	3239.3	3182.9
27.5°	3325.3	2767.7	2486.6	2495.8	2583.7	2985.0	3388.2	3587.0	3489.0	3419.6
30°	3484.3	2871.2	2551.3	2508.8	2685.4	3024.7	3461.2	3836.7	3758.0	3700.7
32.5°	3550.0	3018.3	2653.9	2583.7	2769.5	3072.8	3612.9	4078.9	4011.4	3869.9
35°	3661.0	3100.6	2709.4	2703.9	2916.6	3188.4	3684.1	4238.9	4211.2	4085.4
37.5°	3749.7	3183.8	2906.4	2845.4	3118.1	3382.6	3798.7	4459.9	4396.1	4336.9
40°	3818.2	3332.7	3090.4	3170.9	3366.0	3559.2	3904.2	4473.8	4657.8	4485.8
42.5°	3755.3	3465.8	3392.8	3585.1	3770.1	3760.8	3916.2	4581.0	4718.8	4629.1
45°	3739.6	3691.5	3870.9	4045.6	4088.2	3928.2	3830.2	4462.7	4700.3	4660.6
47.5°	3701.6	3913.4	4226.0	4510.8	4446.0	4040.1	3727.5	4441.4	4711.4	4640.2
50°	3688.7	3961.5	4488.6	4766.0	4727.2	4137.2	3679.4	4304.6	4632.8	4626.4
52.5°	3687.8	4060.4	4597.7	4904.7	4928.7	4290.7	3745.1	4373.9	4693.9	4748.4
55°	3729.4	4029.0	4583.8	4827.9	4818.7	4222.3	3752.5	4420.1	4768.8	4822.4
57.5°	3517.6	3609.2	3783.0	3976.3	3926.3	3497.3	3351.2	4086.3	4376.7	4337.8
60°	3037.7	2751.0	2555.0	2545.7	2448.7	2314.6	2742.7	3647.1	3647.1	3609.2
62.5°	2660.4	1806.0	1551.7	1479.5	1548.9	1703.3	2645.6	3547.2	3446.4	3403.0
65°	2326.6	1378.8	1121.7	1101.3	1221.6	1454.6	2392.2	3022.0	2844.4	2700.2
67.5°	1497.1	1009.8	834.1	798.0	943.2	1068.0	1592.4	1858.7	1746.8	1690.4
70°	965.4	657.5	464.2	435.5	491.9	658.4	1017.2	1083.8	921.0	883.1
72.5°	456.8	283.9	162.8	134.1	150.7	251.5	402.3	432.8	359.7	329.2
75°	145.2	104.5	66.6	57.3	54.6	64.7	92.5	71.2	51.8	50.9
77.5°	64.7	62.0	52.7	44.4	38.8	32.4	26.8	22.2	23.1	24.0
80°	53.6	49.0	43.5	38.8	32.4	25.0	19.4	14.8	14.8	15.7
82.5°	47.2	42.5	37.9	32.4	27.7	20.3	14.8	10.2	9.2	9.2
85°	20.3	24.0	25.9	27.7	22.2	16.6	10.2	6.5	5.5	5.5
87.5°	8.3	7.4	6.5	5.5	4.6	4.6	3.7	2.8	1.8	1.8
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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