

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: P652069

Luminaire Tested: **GALN-SA8A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652069
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-SA8A-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 23129.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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

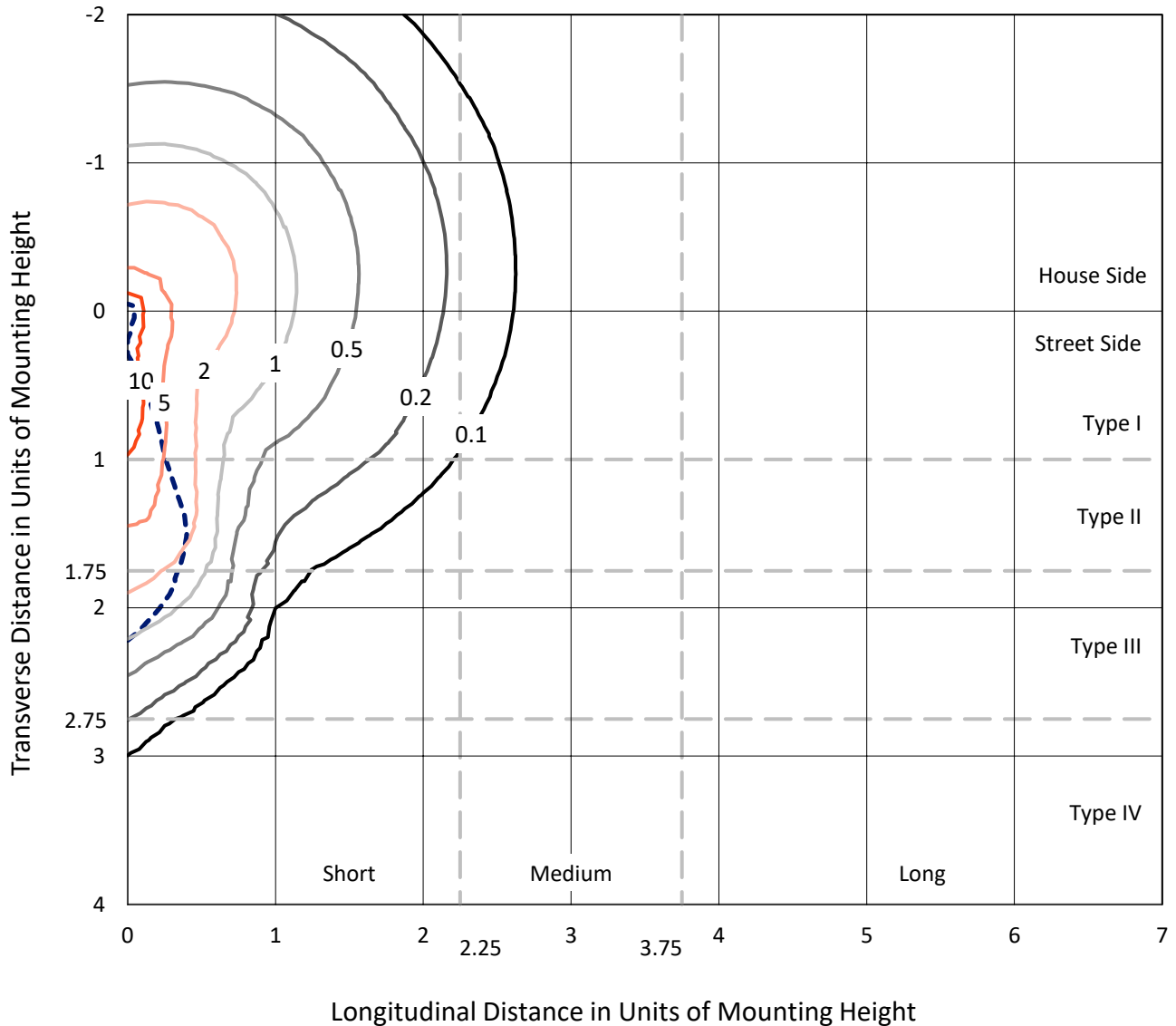




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Iso-Footcandle Lines of Horizontal Illumination

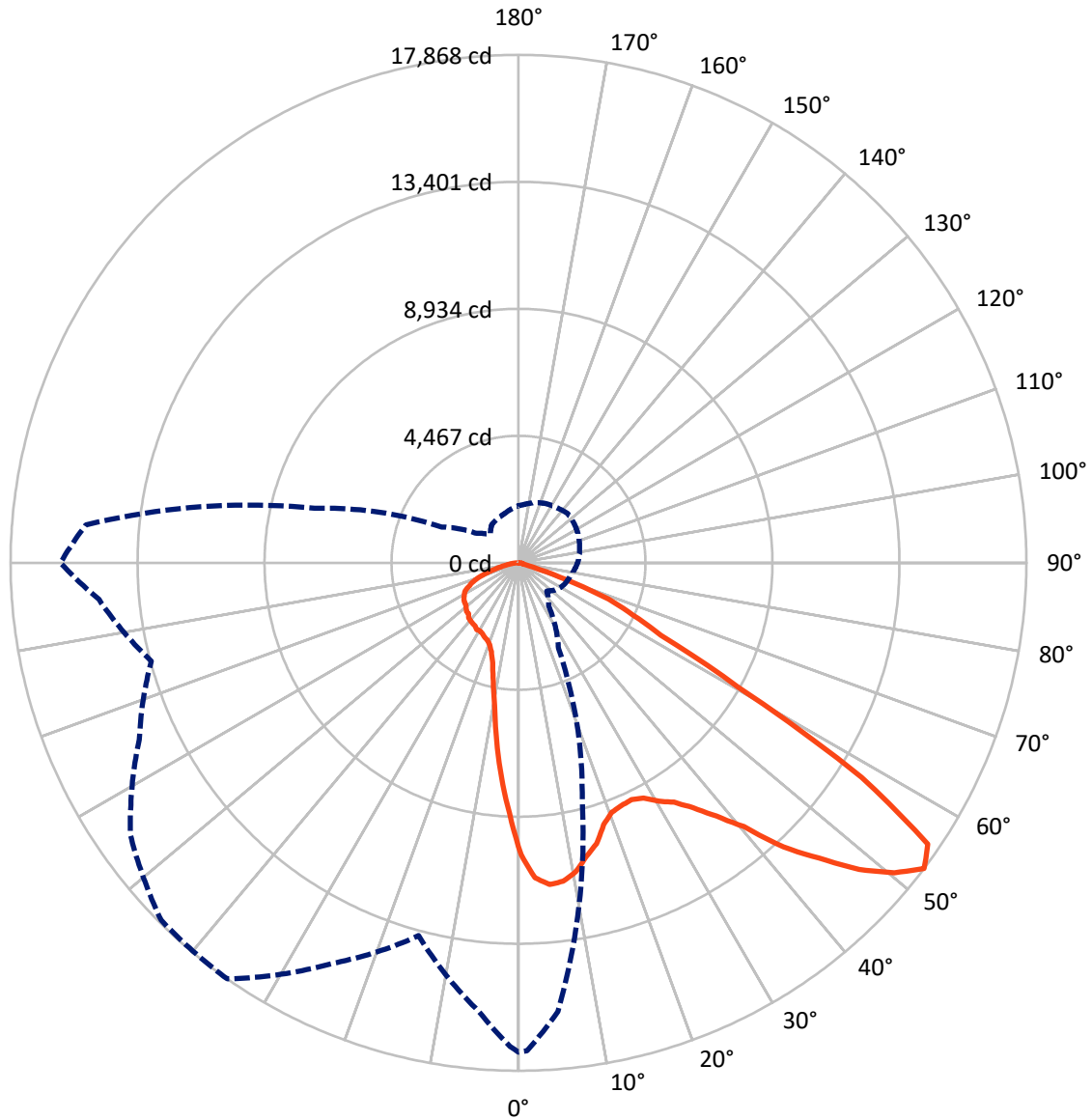
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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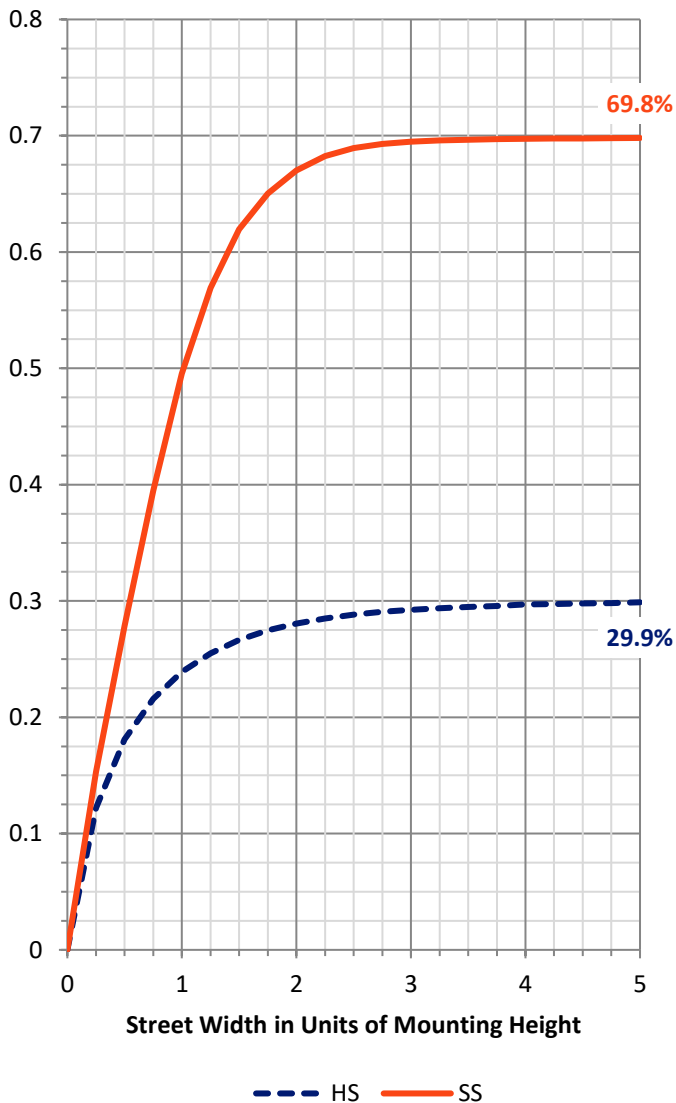
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6972.5	0.0	6972.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	16156.7	0.0	16156.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	23129.2	0.0	23129.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.1	3.4
10°-20°	1697.7	7.3
20°-30°	2565.1	11.1
30°-40°	3706.6	16.0
40°-50°	4932.9	21.3
50°-60°	5517.5	23.9
60°-70°	3109.7	13.4
70°-80°	693.2	3.0
80°-90°	123.4	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°	23129.2	100.0
0°-180°	23129.2	100.0

Coefficient of Utilization



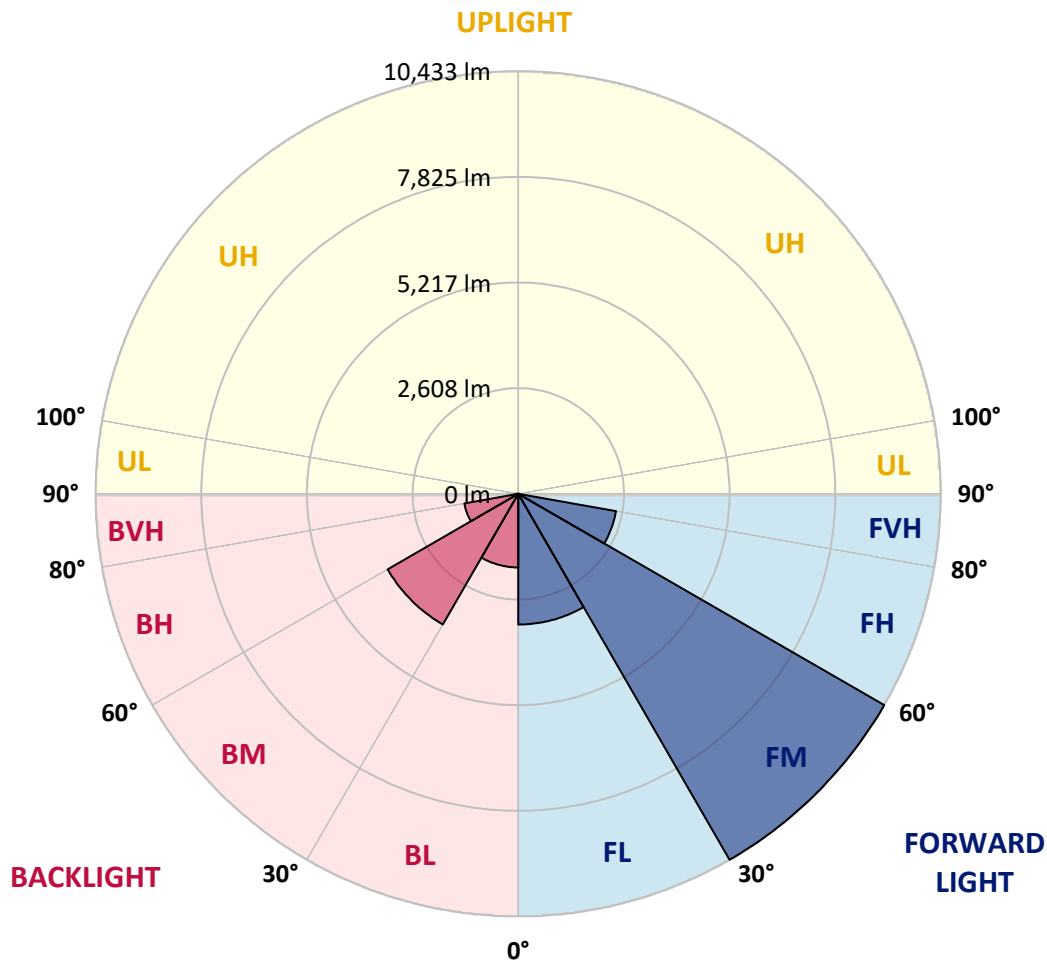
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3227.6	14.0			
FM (30°-60°)	10433.0	45.1			
FH (60°-80°)	2451.3	10.6			G2/5000
FVH (80°-90°)	44.7	0.2			G1/100
BL (0°-30°)	1818.3	7.9	B3/2500		
BM (30°-60°)	3724.0	16.1	B3/5000		
BH (60°-80°)	1351.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	78.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9
2.5°	10435.8	10603.5	10422.4	10100.6	9872.7	9664.8	9446.9	9403.3	9118.4	9068.1	8860.3
5°	9842.5	9805.6	9584.4	9161.9	8695.9	8273.6	7961.8	7660.1	7455.6	7217.6	7200.8
7.5°	9121.7	8907.2	8779.8	8139.5	7562.9	6899.1	6614.2	6154.9	6010.7	5796.2	5685.6
10°	8478.0	8320.5	8022.1	7381.9	6577.3	6138.1	5833.1	5585.0	5417.4	5196.1	4917.9
12.5°	8159.6	8095.9	7760.7	6768.4	6171.7	5702.3	5487.8	5246.4	4961.5	4606.2	4468.7
15°	8216.6	8002.0	7747.3	6651.0	5826.4	5373.8	5031.9	4730.1	4364.8	4026.2	3828.4
17.5°	8642.4	8478.0	7968.6	6724.8	5695.6	5042.0	4421.7	3975.9	3647.3	3342.3	3204.8
20°	9480.4	9242.4	8669.2	6818.7	5414.0	4579.3	3868.6	3318.8	2966.8	2805.9	2759.0
22.5°	10409.1	10268.2	9353.0	7029.8	5189.4	4150.2	3281.9	2732.2	2601.4	2557.8	2645.0
25°	11538.8	11173.4	10415.7	7375.1	5015.1	3784.8	2785.8	2480.7	2413.7	2457.2	2557.8
27.5°	12396.9	12299.7	11160.0	7700.4	4777.0	3345.7	2507.5	2306.4	2326.5	2370.1	2464.0
30°	13416.1	12923.3	11880.7	7924.9	4562.5	3043.9	2313.1	2259.5	2279.6	2353.4	2400.3
32.5°	14029.6	13845.2	12333.3	8263.5	4314.5	2782.4	2162.3	2112.0	2142.1	2252.8	2363.4
35°	14810.7	14445.3	12893.1	8350.7	4140.2	2678.5	2055.0	2018.1	2088.5	2165.6	2289.6
37.5°	15722.5	15471.0	13667.5	8290.3	4046.3	2571.3	1964.5	1947.7	1998.0	2105.3	2249.4
40°	16262.2	16185.1	14073.1	8327.2	3898.8	2477.4	1860.5	1880.6	1984.6	2068.4	2209.2
42.5°	16781.8	16279.0	14673.2	8313.8	3804.9	2350.0	1870.6	1847.2	1927.6	2024.8	2158.9
45°	16895.8	16396.3	14814.0	8219.9	3690.9	2226.0	1793.5	1803.5	1900.7	2021.4	2108.6
47.5°	16822.0	16453.3	15075.5	8193.1	3583.7	2138.8	1679.6	1800.2	1857.2	1954.4	2078.4
50°	16771.8	16751.6	15296.8	8320.5	3439.5	2001.3	1542.1	1756.6	1813.6	1910.8	2044.9
52.5°	17214.3	17170.7	15849.9	8655.7	3325.5	1853.8	1401.3	1646.0	1783.4	1877.3	2008.1
55°	17482.5	17291.4	16798.6	9068.1	3134.4	1659.4	1304.1	1508.6	1709.7	1793.5	1927.6
57.5°	15725.9	15595.1	15196.2	8464.7	2812.6	1404.6	1183.4	1367.7	1609.1	1739.9	1877.3
60°	13084.2	12879.7	11857.3	7194.2	2075.1	1092.9	1109.6	1257.1	1582.3	1632.5	1793.5
62.5°	12336.6	11830.4	10439.2	5789.5	1592.3	938.6	995.7	1156.5	1441.5	1525.3	1686.2
65°	9788.8	9413.4	7469.0	4180.4	1066.1	814.6	908.4	1042.6	1243.8	1408.0	1555.5
67.5°	6128.1	5769.3	3985.9	1977.9	744.2	697.3	811.2	952.1	1116.3	1263.9	1428.1
70°	3201.5	2809.3	1840.4	714.0	512.9	569.9	677.2	811.2	972.2	1092.9	1220.3
72.5°	1193.5	968.8	600.1	308.4	355.3	435.8	549.8	647.0	761.0	908.4	978.9
75°	184.3	157.5	154.2	187.7	241.4	315.1	392.2	489.5	590.0	683.9	730.8
77.5°	87.1	83.8	93.9	124.0	160.9	224.6	284.9	378.8	459.3	519.7	546.4
80°	57.0	53.7	60.4	83.8	120.7	167.6	228.0	291.7	365.4	415.7	409.0
82.5°	33.6	36.8	36.8	57.0	83.8	120.7	164.2	221.3	271.6	315.1	288.3
85°	20.1	16.7	16.7	33.6	57.0	97.2	137.4	93.9	97.2	97.2	110.6
87.5°	6.7	6.7	6.7	3.4	6.7	6.7	10.1	16.7	20.1	23.5	30.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9
2.5°	8853.5	8957.5	8920.6	8789.9	8890.4	8907.2	8840.1	9071.4	9115.0	9044.6	9064.7
5°	7177.3	7204.2	7264.6	7391.9	7482.5	7589.7	7589.7	7596.4	7505.9	7733.8	7666.8
7.5°	5591.7	5608.5	5678.9	5950.4	6027.5	6232.0	6319.2	6258.8	6077.8	6000.7	6064.4
10°	4827.3	4730.1	4706.7	4740.2	4914.6	5001.7	5075.4	5055.3	5025.1	4964.8	4897.7
12.5°	4317.8	4247.4	4190.5	4110.0	4120.1	4203.8	4260.8	4213.9	4227.3	4240.7	4260.8
15°	3764.7	3714.4	3684.3	3563.6	3550.1	3607.1	3627.2	3654.1	3704.4	3707.7	3684.3
17.5°	3178.1	3134.4	3201.5	3268.5	3221.6	3225.0	3261.8	3285.3	3271.9	3211.5	3181.3
20°	2775.7	2822.6	2889.8	2953.4	3003.7	3033.9	3047.3	3010.4	2966.8	2842.7	2839.5
22.5°	2658.4	2718.8	2775.7	2872.9	2919.9	2997.0	2926.6	2842.7	2782.4	2722.1	2651.7
25°	2571.3	2621.6	2735.5	2772.4	2862.9	2926.6	2876.3	2792.5	2688.6	2601.4	2547.8
27.5°	2507.5	2564.5	2638.3	2738.9	2809.3	2846.1	2795.8	2762.3	2655.0	2551.2	2474.1
30°	2467.3	2527.6	2661.8	2745.5	2805.9	2836.1	2748.9	2708.7	2631.6	2544.4	2477.4
32.5°	2440.5	2494.2	2608.1	2715.4	2755.6	2755.6	2769.1	2722.1	2614.8	2467.3	2410.3
35°	2353.4	2427.1	2521.0	2645.0	2718.8	2762.3	2695.3	2641.7	2571.3	2420.4	2316.5
37.5°	2303.1	2353.4	2474.1	2591.4	2655.0	2702.0	2675.1	2581.3	2487.4	2363.4	2279.6
40°	2249.4	2329.9	2437.1	2547.8	2618.2	2665.1	2645.0	2534.4	2420.4	2303.1	2246.1
42.5°	2212.6	2266.2	2376.8	2500.9	2584.6	2675.1	2614.8	2477.4	2396.9	2236.1	2172.3
45°	2182.4	2269.5	2386.8	2437.1	2524.3	2618.2	2510.9	2427.1	2333.3	2215.9	2162.3
47.5°	2145.5	2226.0	2303.1	2437.1	2477.4	2521.0	2500.9	2366.7	2286.3	2158.9	2122.0
50°	2132.1	2162.3	2303.1	2376.8	2433.8	2477.4	2423.8	2323.2	2246.1	2115.4	2034.9
52.5°	2078.4	2135.5	2226.0	2323.2	2393.6	2447.2	2360.0	2296.4	2192.4	2055.0	2004.7
55°	2011.4	2044.9	2205.9	2306.4	2343.3	2380.2	2346.6	2242.7	2135.5	1994.7	1944.4
57.5°	1924.2	2001.3	2132.1	2272.9	2319.8	2339.9	2286.3	2202.5	2068.4	1944.4	1863.9
60°	1833.7	1914.2	2058.3	2172.3	2219.2	2293.0	2212.6	2162.3	2008.1	1870.6	1783.4
62.5°	1743.2	1833.7	1941.0	2085.2	2125.4	2155.6	2135.5	2065.1	1941.0	1786.8	1679.6
65°	1635.9	1703.0	1837.1	1910.8	1937.7	2008.1	1937.7	1910.8	1800.2	1652.7	1562.2
67.5°	1475.0	1532.0	1649.4	1719.8	1739.9	1770.1	1766.7	1736.5	1612.4	1511.9	1431.5
70°	1290.7	1341.0	1414.7	1498.5	1508.6	1545.4	1511.9	1505.2	1424.7	1287.3	1243.8
72.5°	1035.9	1082.8	1180.0	1216.9	1220.3	1233.7	1216.9	1193.5	1173.3	1029.1	985.6
75°	794.5	821.3	868.2	901.8	901.8	918.5	908.4	885.0	831.4	740.8	697.3
77.5°	553.1	580.0	640.3	660.4	657.1	663.8	633.6	610.1	529.7	482.7	445.9
80°	402.3	419.1	449.2	462.6	466.0	476.0	439.2	419.1	372.1	318.5	301.8
82.5°	291.7	301.8	305.0	321.9	321.9	305.0	295.0	274.9	241.4	207.8	194.4
85°	120.7	124.0	127.4	147.5	150.9	181.1	167.6	157.5	137.4	117.3	107.3
87.5°	30.2	33.6	43.6	36.8	43.6	43.6	46.9	53.7	53.7	43.6	43.6
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°	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9
2.5°	9141.8	9168.7	9510.6	9554.2	9721.8	9892.8	10238.1	10486.1	10687.3	10818.0	10854.9
5°	7737.2	7908.2	8065.7	8320.5	8551.8	8880.4	9259.2	9728.5	10318.5	10620.2	10740.9
7.5°	6057.7	6258.8	6486.8	6734.9	7073.5	7663.4	8169.6	8712.8	9467.1	9778.8	10251.5
10°	4944.7	5169.3	5471.0	5662.1	6071.1	6634.3	7224.3	7851.2	8572.0	9021.2	9567.6
12.5°	4371.4	4555.9	4834.1	5236.3	5541.4	5906.8	6346.0	7137.1	8169.6	8595.4	8970.9
15°	3737.8	3942.4	4264.2	4710.0	5075.4	5511.2	6004.1	6865.6	7965.2	8622.2	8940.7
17.5°	3214.9	3362.4	3701.0	4086.5	4505.6	4981.6	5688.9	6852.2	8179.7	9021.2	9540.8
20°	2852.8	2872.9	3057.4	3385.9	3955.7	4576.0	5494.5	6785.1	8866.9	9708.4	10365.4
22.5°	2624.8	2604.7	2608.1	2886.4	3285.3	4177.0	5189.4	7013.1	9648.0	10801.2	11243.7
25°	2510.9	2457.2	2423.8	2484.1	2846.1	3704.4	4958.1	7314.8	10489.5	11703.0	12246.1
27.5°	2450.6	2356.7	2289.6	2299.7	2564.5	3466.3	4814.0	7445.5	11324.2	12960.1	13151.2
30°	2427.1	2309.7	2212.6	2179.0	2353.4	3134.4	4505.6	7670.2	12071.8	13650.8	13815.0
32.5°	2343.3	2199.1	2105.3	2075.1	2145.5	2842.7	4284.3	7831.1	12732.2	14401.7	14344.7
35°	2246.1	2125.4	2008.1	1951.0	2001.3	2655.0	4106.6	7753.9	13509.9	14984.9	14954.8
37.5°	2236.1	2078.4	1981.2	1887.4	1884.0	2423.8	3865.2	7827.7	14006.1	16030.9	15618.5
40°	2148.8	2048.3	1920.9	1843.8	1800.2	2306.4	3630.6	7653.4	14733.6	16453.3	16047.6
42.5°	2152.2	2001.3	1890.7	1800.2	1756.6	2135.5	3469.7	7606.4	14988.3	17140.5	16248.8
45°	2098.5	1951.0	1857.2	1750.0	1726.5	2004.7	3315.5	7388.5	15437.6	17174.1	15997.4
47.5°	2044.9	1914.2	1813.6	1686.2	1632.5	1957.8	3194.8	7207.5	15202.8	16858.9	15648.7
50°	2008.1	1857.2	1763.3	1672.8	1522.0	1877.3	3037.2	7164.0	14874.3	16433.2	15001.8
52.5°	1944.4	1810.3	1713.0	1642.6	1401.3	1803.5	2976.9	7418.7	15276.6	16114.7	14814.0
55°	1884.0	1746.6	1622.5	1485.1	1300.7	1609.1	2809.3	7656.7	15863.3	16848.8	15665.5
57.5°	1820.3	1689.6	1555.5	1391.2	1203.5	1408.0	2634.9	7700.4	14763.8	15571.6	14871.0
60°	1736.5	1568.9	1468.3	1253.8	1099.6	1166.6	2088.5	6788.5	11451.6	13003.7	13027.2
62.5°	1642.6	1461.7	1374.4	1123.1	992.3	1005.7	1703.0	5705.7	9289.3	10764.4	11404.6
65°	1518.6	1344.3	1240.4	1039.2	915.2	871.6	1247.0	4180.4	7056.7	8732.9	9460.3
67.5°	1357.7	1193.5	1062.7	905.2	818.0	747.6	851.5	2353.4	4167.0	5863.3	6084.5
70°	1186.7	1046.0	908.4	777.8	680.5	630.2	623.5	1042.6	1991.3	3154.6	3590.4
72.5°	935.3	834.7	724.1	626.9	563.2	489.5	445.9	432.4	673.8	1284.0	1773.4
75°	670.4	586.7	522.9	459.3	412.3	372.1	338.6	308.4	281.6	321.9	442.5
77.5°	422.4	392.2	342.0	325.2	298.4	288.3	274.9	258.1	238.0	224.6	224.6
80°	284.9	264.8	248.1	244.7	234.6	231.3	234.6	217.9	197.8	181.1	187.7
82.5°	191.1	187.7	184.3	181.1	184.3	187.7	194.4	191.1	174.3	164.2	167.6
85°	114.0	120.7	127.4	134.1	147.5	130.8	107.3	90.5	80.5	73.8	70.4
87.5°	43.6	60.4	53.7	50.3	53.7	50.3	46.9	43.6	36.8	33.6	33.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9	10264.9
2.5°	11099.6	11166.6	11223.6	11210.2	11092.9	10935.4	10871.6	10546.5	10479.4	10435.8
5°	11250.5	11639.4	11723.1	11672.8	11367.8	10982.3	10606.8	10130.8	9852.6	9842.5
7.5°	10972.2	11451.6	11602.4	11716.5	11310.8	10640.3	9996.7	9282.6	9108.3	9121.7
10°	10264.9	11029.2	11401.4	11518.7	11052.7	10472.7	9581.0	8856.9	8484.8	8478.0
12.5°	9872.7	10472.7	10576.7	10740.9	10603.5	10016.8	9339.6	8528.3	8166.3	8159.6
15°	9524.0	9919.6	9949.8	10181.1	10254.8	9859.2	9403.3	8538.4	8246.8	8216.6
17.5°	9829.1	9554.2	9440.2	9470.3	9688.2	9832.4	9772.1	9108.3	8810.0	8642.4
20°	10033.6	9420.0	9074.8	9108.3	9366.5	9892.8	10321.8	9933.0	9460.3	9480.4
22.5°	10580.0	9440.2	8900.5	8863.6	9272.6	10207.9	10942.1	10975.6	10519.6	10409.1
25°	11398.0	9671.5	8846.8	8836.8	9229.0	10546.5	11666.2	12209.2	11743.2	11538.8
27.5°	12055.1	10033.6	9014.4	9048.0	9366.5	10821.4	12283.0	13003.7	12648.4	12396.9
30°	12631.7	10409.1	9249.1	9094.9	9735.2	10965.5	12547.8	13908.9	13623.9	13416.1
32.5°	12869.7	10942.1	9621.2	9366.5	10040.3	11139.8	13097.6	14787.2	14542.5	14029.6
35°	13271.9	11240.4	9822.4	9802.3	10573.3	11558.9	13355.8	15367.2	15266.6	14810.7
37.5°	13593.8	11542.1	10536.4	10315.1	11304.1	12262.9	13771.5	16168.3	15937.0	15722.5
40°	13841.9	12081.8	11203.5	11495.2	12202.5	12903.1	14153.6	16218.6	16885.8	16262.2
42.5°	13613.9	12564.5	12299.7	12997.1	13667.5	13634.0	14197.2	16607.5	17107.0	16781.8
45°	13556.8	13382.6	14032.9	14666.5	14820.7	14240.7	13885.4	16178.4	17039.9	16895.8
47.5°	13419.4	14187.1	15320.2	16352.7	16118.1	14646.4	13513.3	16101.3	17080.2	16822.0
50°	13372.5	14361.4	16272.3	17278.0	17137.1	14998.4	13338.9	15605.2	16795.3	16771.8
52.5°	13369.1	14720.1	16667.9	17780.8	17868.0	15554.9	13577.0	15856.6	17016.5	17214.3
55°	13520.0	14606.2	16617.6	17502.6	17469.1	15306.8	13603.8	16024.2	17288.0	17482.5
57.5°	12752.3	13084.2	13714.4	14415.1	14234.0	12678.6	12148.9	14814.0	15866.6	15725.9
60°	11012.5	9973.3	9262.5	9229.0	8877.0	8390.9	9943.1	13221.6	13221.6	13084.2
62.5°	9644.7	6547.1	5625.2	5363.7	5615.2	6175.0	9591.0	12859.6	12494.1	12336.6
65°	8434.5	4998.3	4066.4	3992.6	4428.5	5273.2	8672.5	10955.5	10311.8	9788.8
67.5°	5427.5	3660.8	3023.8	2893.0	3419.4	3872.0	5772.7	6738.2	6332.6	6128.1
70°	3499.8	2383.5	1682.8	1579.0	1783.4	2386.8	3687.6	3929.0	3338.9	3201.5
72.5°	1656.1	1029.1	590.0	486.1	546.4	911.8	1458.3	1568.9	1304.1	1193.5
75°	526.3	378.8	241.4	207.8	197.8	234.6	335.2	258.1	187.7	184.3
77.5°	234.6	224.6	191.1	160.9	140.8	117.3	97.2	80.5	83.8	87.1
80°	194.4	177.7	157.5	140.8	117.3	90.5	70.4	53.7	53.7	57.0
82.5°	171.0	154.2	137.4	117.3	100.6	73.8	53.7	36.8	33.6	33.6
85°	73.8	87.1	93.9	100.6	80.5	60.4	36.8	23.5	20.1	20.1
87.5°	30.2	26.8	23.5	20.1	16.7	16.7	13.4	10.1	6.7	6.7
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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