

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: P533724

Luminaire Tested: **GALN-SA9A-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533724
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-SA9A-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 24535 lumens
Efficiency: N/A
Efficacy: 89.5 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): 274
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



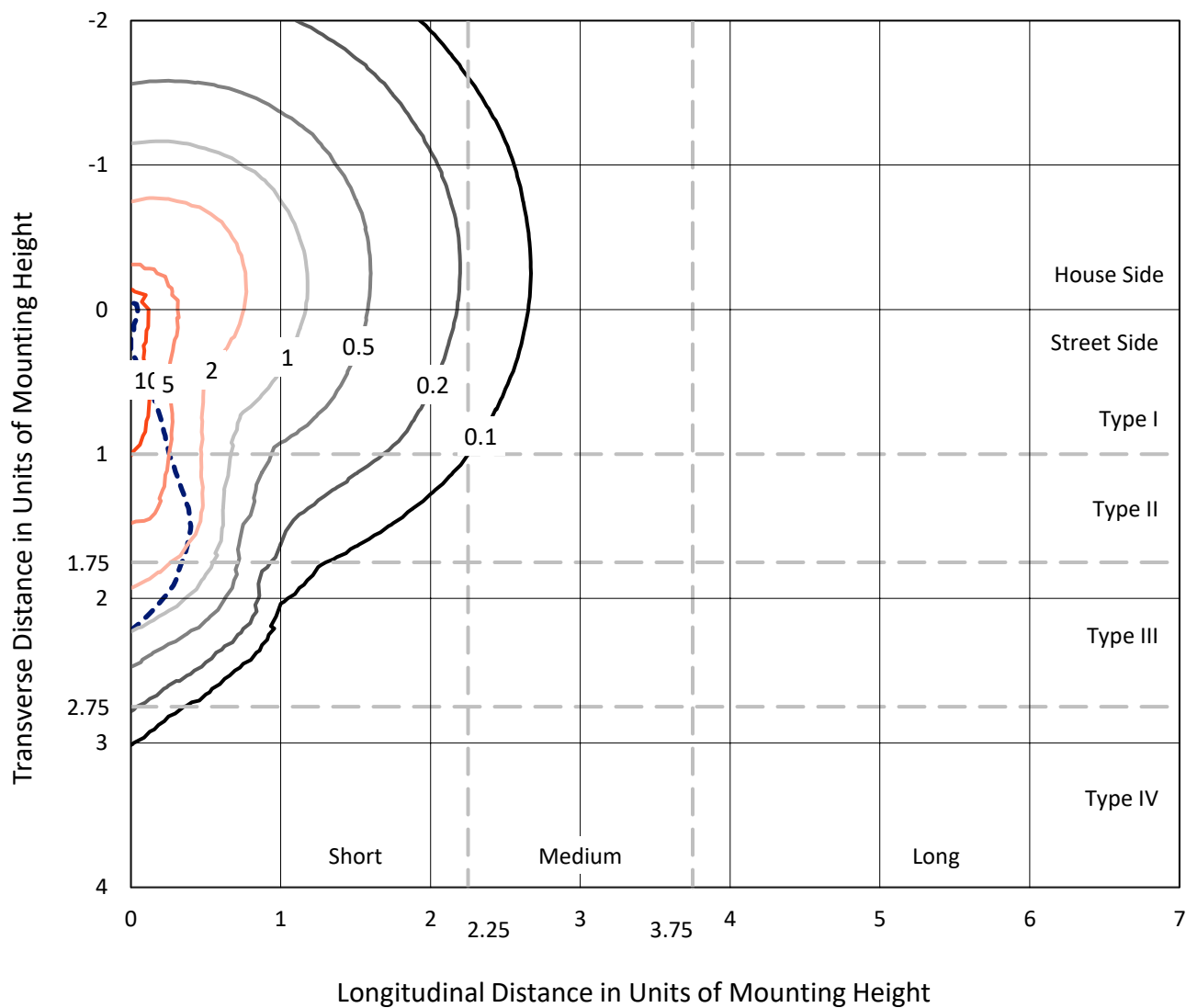
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

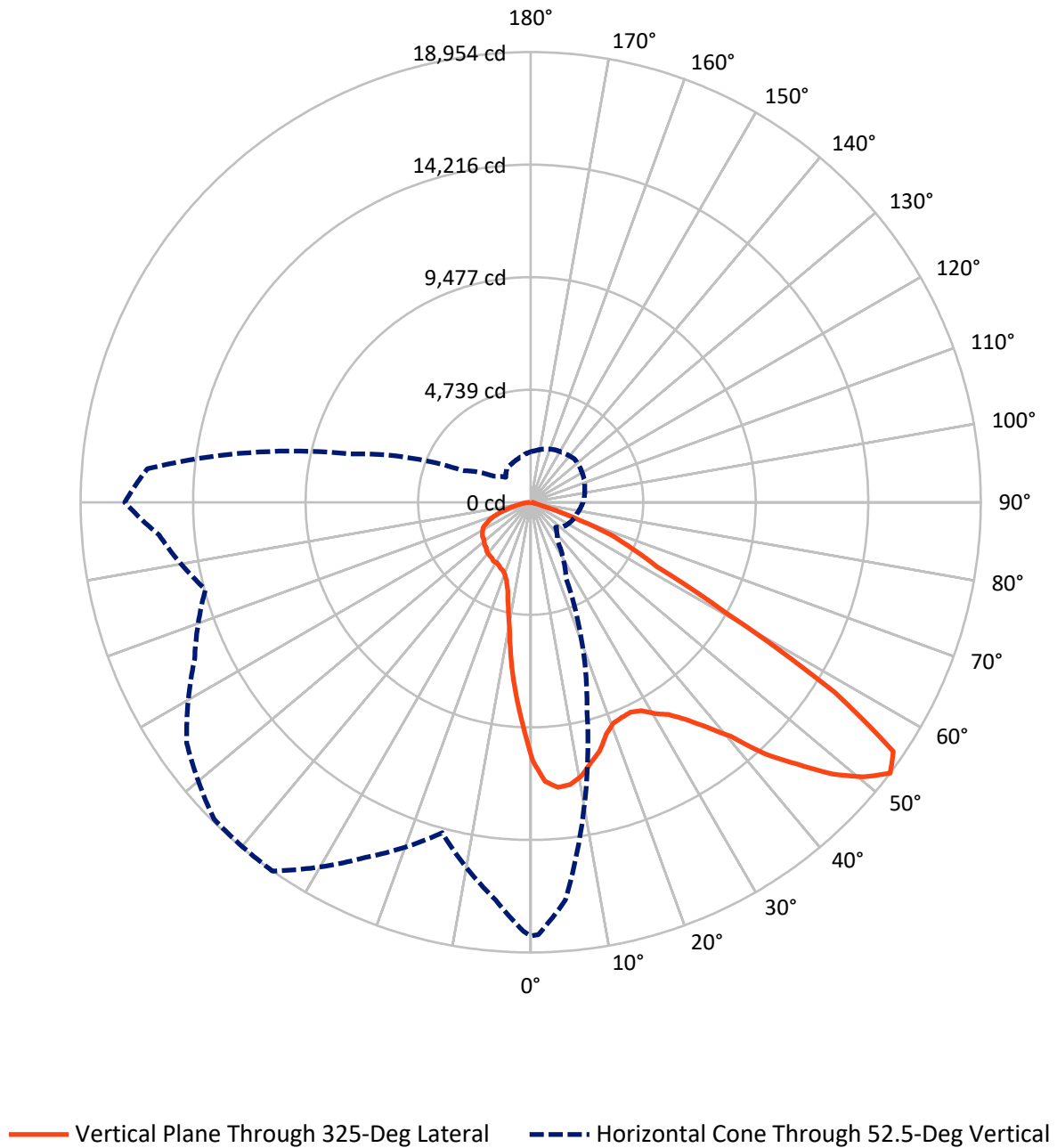


Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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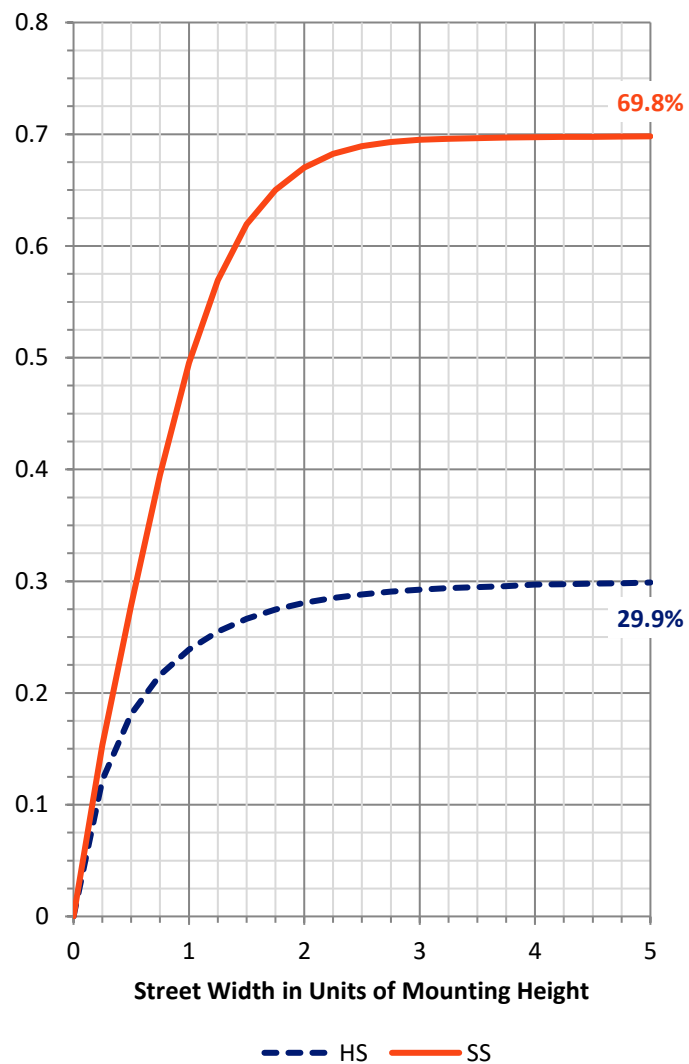
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7396.3	0.0	7396.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	17138.7	0.0	17138.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	24535.0	0.0	24535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.7	3.4
10°-20°	1800.9	7.3
20°-30°	2721.0	11.1
30°-40°	3931.9	16.0
40°-50°	5232.7	21.3
50°-60°	5852.9	23.9
60°-70°	3298.7	13.4
70°-80°	735.3	3.0
80°-90°	130.9	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°	24535.0	100.0
0°-180°	24535.0	100.0

Coefficient of Utilization



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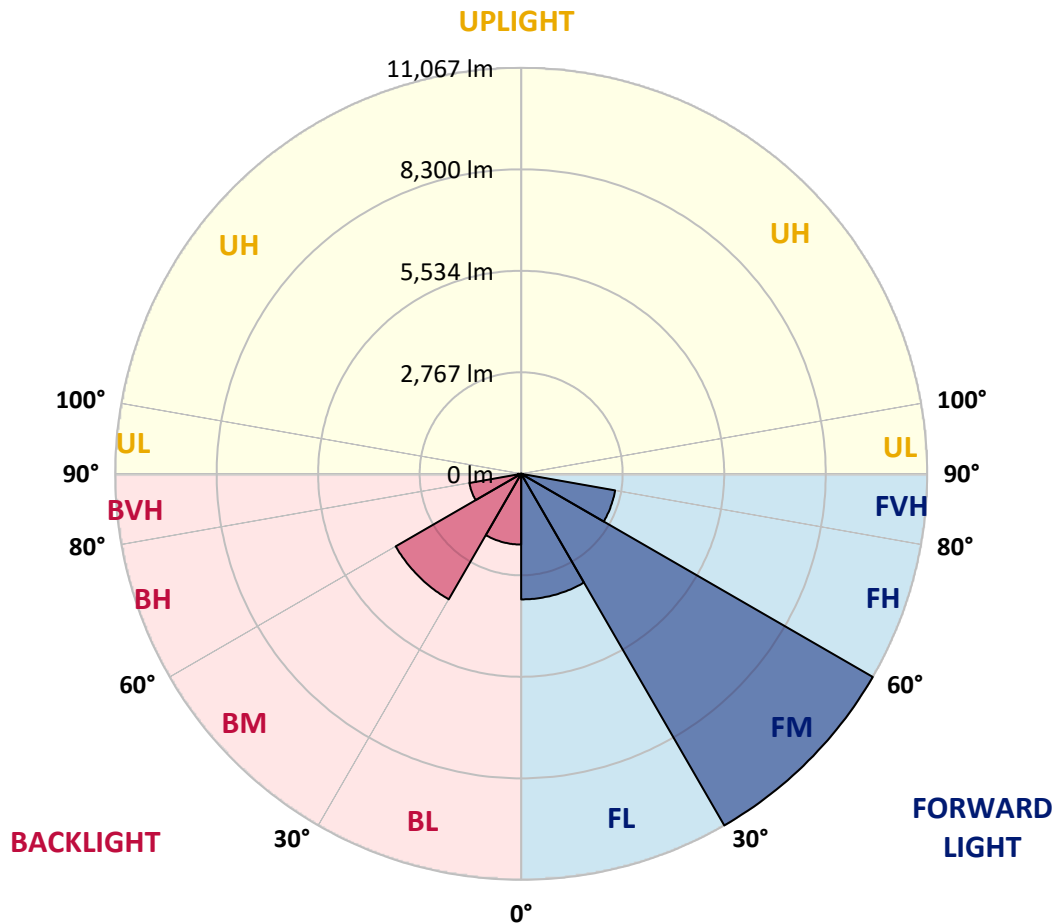
CATALOG NUMBER: GALN-SA9A-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3423.8	14.0			
FM	(30°-60°)	11067.2	45.1			
FH	(60°-80°)	2600.3	10.6			G2/5000
FVH	(80°-90°)	47.4	0.2			G1/100
BL	(0°-30°)	1928.8	7.9	B3/2500		
BM	(30°-60°)	3950.4	16.1	B3/5000		
BH	(60°-80°)	1433.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	83.5	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°	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8
2.5°	11070.1	11248.0	11055.9	10714.5	10472.7	10252.2	10021.1	9974.9	9672.6	9619.3	9398.8
5°	10440.7	10401.6	10166.9	9718.8	9224.5	8776.5	8445.7	8125.7	7908.8	7656.3	7638.5
7.5°	9676.2	9448.6	9313.4	8634.2	8022.6	7318.5	7016.2	6529.0	6376.1	6148.5	6031.1
10°	8993.4	8826.2	8509.8	7830.5	6977.1	6511.2	6187.6	5924.5	5746.7	5512.0	5216.8
12.5°	8655.6	8588.0	8232.4	7179.8	6546.8	6048.9	5821.3	5565.3	5263.0	4886.1	4740.3
15°	8716.0	8488.4	8218.2	7055.3	6180.5	5700.4	5337.7	5017.7	4630.0	4270.9	4061.1
17.5°	9167.6	8993.4	8452.9	7133.5	6041.8	5348.4	4690.5	4217.5	3869.0	3545.4	3399.6
20°	10056.7	9804.2	9196.1	7233.1	5743.1	4857.6	4103.7	3520.5	3147.2	2976.5	2926.7
22.5°	11041.7	10892.3	9921.5	7457.1	5504.8	4402.5	3481.4	2898.2	2759.5	2713.3	2805.8
25°	12240.1	11852.5	11048.8	7823.4	5319.9	4014.8	2955.1	2631.5	2560.4	2606.6	2713.3
27.5°	13150.5	13047.3	11838.3	8168.4	5067.4	3549.0	2660.0	2446.6	2467.9	2514.2	2613.7
30°	14231.5	13708.8	12602.8	8406.6	4839.9	3228.9	2453.7	2396.8	2418.1	2496.4	2546.2
32.5°	14882.3	14686.7	13082.9	8765.8	4576.7	2951.6	2293.7	2240.3	2272.3	2389.7	2507.1
35°	15710.9	15323.2	13676.8	8858.2	4391.8	2841.3	2179.9	2140.8	2215.5	2297.2	2428.8
37.5°	16678.1	16411.4	14498.2	8794.2	4292.2	2727.5	2083.9	2066.1	2119.4	2233.2	2386.1
40°	17250.6	17168.9	14928.5	8833.4	4135.7	2628.0	1973.6	1995.0	2105.2	2194.1	2343.5
42.5°	17801.8	17268.4	15565.1	8819.1	4036.2	2492.8	1984.3	1959.4	2044.8	2147.9	2290.1
45°	17922.8	17392.9	15714.4	8719.6	3915.3	2361.3	1902.5	1913.2	2016.3	2144.3	2236.8
47.5°	17844.5	17453.3	15991.8	8691.1	3801.5	2268.8	1781.6	1909.6	1970.1	2073.2	2204.8
50°	17791.2	17769.8	16226.5	8826.2	3648.6	2123.0	1635.8	1863.4	1923.9	2027.0	2169.2
52.5°	18260.6	18214.4	16813.2	9181.9	3527.7	1966.5	1486.5	1746.0	1891.8	1991.4	2130.1
55°	18545.1	18342.4	17819.6	9619.3	3325.0	1760.3	1383.3	1600.2	1813.6	1902.5	2044.8
57.5°	16681.7	16543.0	16119.8	8979.2	2983.6	1490.0	1255.3	1450.9	1706.9	1845.6	1991.4
60°	13879.5	13662.5	12577.9	7631.4	2201.2	1159.3	1177.1	1333.5	1678.5	1731.8	1902.5
62.5°	13086.5	12549.5	11073.7	6141.4	1689.1	995.7	1056.2	1226.9	1529.1	1618.0	1788.7
65°	10383.8	9985.5	7923.0	4434.5	1130.8	864.1	963.7	1105.9	1319.3	1493.6	1650.0
67.5°	6500.6	6120.1	4228.2	2098.1	789.5	739.7	860.6	1009.9	1184.2	1340.7	1514.9
70°	3396.1	2980.0	1952.3	757.4	544.1	604.5	718.3	860.6	1031.3	1159.3	1294.4
72.5°	1266.0	1027.7	636.5	327.2	376.9	462.3	583.2	686.3	807.2	963.7	1038.4
75°	195.6	167.1	163.6	199.1	256.0	334.3	416.1	519.2	625.9	725.4	775.2
77.5°	92.5	88.9	99.6	131.6	170.7	238.3	302.3	401.8	487.2	551.2	579.6
80°	60.5	56.9	64.0	88.9	128.0	177.8	241.8	309.4	387.6	441.0	433.8
82.5°	35.6	39.1	39.1	60.5	88.9	128.0	174.2	234.7	288.0	334.3	305.8
85°	21.3	17.8	17.8	35.6	60.5	103.1	145.8	99.6	103.1	103.1	117.4
87.5°	7.1	7.1	7.1	3.6	7.1	7.1	10.7	17.8	21.3	24.9	32.0
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°	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8
2.5°	9391.7	9501.9	9462.8	9324.1	9430.8	9448.6	9377.4	9622.8	9669.0	9594.4	9615.7
5°	7613.6	7642.1	7706.1	7841.2	7937.2	8051.0	8051.0	8058.1	7962.1	8203.9	8132.8
7.5°	5931.6	5949.4	6024.0	6312.1	6393.9	6610.8	6703.3	6639.2	6447.2	6365.4	6433.0
10°	5120.8	5017.7	4992.8	5028.3	5213.2	5305.7	5383.9	5362.6	5330.6	5266.6	5195.5
12.5°	4580.3	4505.6	4445.1	4359.8	4370.4	4459.4	4519.8	4470.0	4484.2	4498.5	4519.8
15°	3993.5	3940.2	3908.2	3780.1	3765.9	3826.4	3847.7	3876.2	3929.5	3933.0	3908.2
17.5°	3371.2	3325.0	3396.1	3467.2	3417.4	3421.0	3460.1	3485.0	3470.8	3406.7	3374.7
20°	2944.5	2994.2	3065.4	3132.9	3186.3	3218.3	3232.5	3193.4	3147.2	3015.6	3012.0
22.5°	2820.0	2884.0	2944.5	3047.6	3097.4	3179.2	3104.5	3015.6	2951.6	2887.6	2812.9
25°	2727.5	2780.9	2901.8	2940.9	3036.9	3104.5	3051.1	2962.2	2852.0	2759.5	2702.6
27.5°	2660.0	2720.4	2798.7	2905.3	2980.0	3019.1	2965.8	2930.2	2816.4	2706.2	2624.4
30°	2617.3	2681.3	2823.5	2912.4	2976.5	3008.5	2916.0	2873.3	2791.5	2699.1	2628.0
32.5°	2588.8	2645.7	2766.6	2880.4	2923.1	2923.1	2937.3	2887.6	2773.8	2617.3	2556.8
35°	2496.4	2574.6	2674.2	2805.8	2884.0	2930.2	2859.1	2802.2	2727.5	2567.5	2457.3
37.5°	2443.0	2496.4	2624.4	2748.9	2816.4	2866.2	2837.8	2738.2	2638.6	2507.1	2418.1
40°	2386.1	2471.5	2585.3	2702.6	2777.3	2827.1	2805.8	2688.4	2567.5	2443.0	2382.6
42.5°	2347.0	2403.9	2521.3	2652.9	2741.8	2837.8	2773.8	2628.0	2542.6	2371.9	2304.4
45°	2315.0	2407.5	2531.9	2585.3	2677.7	2777.3	2663.5	2574.6	2475.0	2350.6	2293.7
47.5°	2275.9	2361.3	2443.0	2585.3	2628.0	2674.2	2652.9	2510.6	2425.3	2290.1	2251.0
50°	2261.7	2293.7	2443.0	2521.3	2581.7	2628.0	2571.1	2464.4	2382.6	2243.9	2158.6
52.5°	2204.8	2265.2	2361.3	2464.4	2539.1	2596.0	2503.5	2435.9	2325.7	2179.9	2126.5
55°	2133.7	2169.2	2339.9	2446.6	2485.7	2524.8	2489.3	2379.0	2265.2	2115.9	2062.5
57.5°	2041.2	2123.0	2261.7	2411.0	2460.8	2482.2	2425.3	2336.4	2194.1	2062.5	1977.2
60°	1945.2	2030.5	2183.4	2304.4	2354.1	2432.4	2347.0	2293.7	2130.1	1984.3	1891.8
62.5°	1849.2	1945.2	2059.0	2211.9	2254.6	2286.6	2265.2	2190.6	2059.0	1895.4	1781.6
65°	1735.4	1806.5	1948.7	2027.0	2055.4	2130.1	2055.4	2027.0	1909.6	1753.2	1657.1
67.5°	1564.7	1625.1	1749.6	1824.3	1845.6	1877.6	1874.1	1842.1	1710.5	1603.8	1518.5
70°	1369.1	1422.4	1500.7	1589.6	1600.2	1639.4	1603.8	1596.7	1511.3	1365.5	1319.3
72.5°	1098.8	1148.6	1251.7	1290.9	1294.4	1308.6	1290.9	1266.0	1244.6	1091.7	1045.5
75°	842.8	871.2	921.0	956.6	956.6	974.4	963.7	938.8	881.9	785.9	739.7
77.5°	586.8	615.2	679.2	700.6	697.0	704.1	672.1	647.2	561.9	512.1	473.0
80°	426.7	444.5	476.5	490.7	494.3	505.0	465.8	444.5	394.7	337.8	320.0
82.5°	309.4	320.0	323.6	341.4	341.4	323.6	312.9	291.6	256.0	220.5	206.3
85°	128.0	131.6	135.1	156.5	160.0	192.0	177.8	167.1	145.8	124.5	113.8
87.5°	32.0	35.6	46.2	39.1	46.2	46.2	49.8	56.9	56.9	46.2	46.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8
2.5°	9697.5	9725.9	10088.7	10134.9	10312.7	10494.1	10860.3	11123.5	11336.9	11475.5	11514.7
5°	8207.5	8388.8	8556.0	8826.2	9071.6	9420.1	9822.0	10319.8	10945.7	11265.7	11393.8
7.5°	6425.9	6639.2	6881.1	7144.2	7503.4	8129.2	8666.2	9242.3	10042.4	10373.1	10874.6
10°	5245.3	5483.5	5803.6	6006.3	6440.1	7037.5	7663.4	8328.4	9093.0	9569.5	10149.1
12.5°	4637.2	4832.7	5127.9	5554.6	5878.2	6265.9	6731.7	7570.9	8666.2	9117.8	9516.1
15°	3965.1	4182.0	4523.4	4996.3	5383.9	5846.2	6369.0	7282.9	8449.3	9146.3	9484.1
17.5°	3410.3	3566.8	3925.9	4334.9	4779.4	5284.4	6034.7	7268.7	8676.9	9569.5	10120.7
20°	3026.2	3047.6	3243.2	3591.7	4196.2	4854.1	5828.5	7197.6	9405.9	10298.5	10995.5
22.5°	2784.4	2763.1	2766.6	3061.8	3485.0	4430.9	5504.8	7439.4	10234.5	11457.8	11927.2
25°	2663.5	2606.6	2571.1	2635.1	3019.1	3929.5	5259.5	7759.4	11127.0	12414.4	12990.4
27.5°	2599.5	2499.9	2428.8	2439.5	2720.4	3677.0	5106.6	7898.1	12012.5	13747.9	13950.6
30°	2574.6	2450.2	2347.0	2311.5	2496.4	3325.0	4779.4	8136.4	12805.5	14480.4	14654.7
32.5°	2485.7	2332.8	2233.2	2201.2	2275.9	3015.6	4544.7	8307.1	13506.1	15277.0	15216.6
35°	2382.6	2254.6	2130.1	2069.7	2123.0	2816.4	4356.2	8225.3	14331.1	15895.8	15863.8
37.5°	2371.9	2204.8	2101.7	2002.1	1998.5	2571.1	4100.2	8303.5	14857.4	17005.3	16567.9
40°	2279.5	2172.8	2037.6	1955.9	1909.6	2446.6	3851.3	8118.6	15629.1	17453.3	17023.1
42.5°	2283.0	2123.0	2005.6	1909.6	1863.4	2265.2	3680.6	8068.8	15899.3	18182.3	17236.4
45°	2226.1	2069.7	1970.1	1856.3	1831.4	2126.5	3517.0	7837.6	16375.8	18217.9	16969.7
47.5°	2169.2	2030.5	1923.9	1788.7	1731.8	2076.8	3389.0	7645.6	16126.9	17883.6	16599.9
50°	2130.1	1970.1	1870.5	1774.5	1614.5	1991.4	3221.8	7599.4	15778.4	17432.0	15913.6
52.5°	2062.5	1920.3	1817.2	1742.5	1486.5	1913.2	3157.8	7869.7	16205.2	17094.2	15714.4
55°	1998.5	1852.7	1721.2	1575.4	1379.8	1706.9	2980.0	8122.1	16827.5	17873.0	16617.7
57.5°	1931.0	1792.3	1650.0	1475.8	1276.6	1493.6	2795.1	8168.4	15661.1	16518.1	15774.9
60°	1842.1	1664.3	1557.6	1330.0	1166.4	1237.5	2215.5	7201.1	12147.6	13794.1	13819.0
62.5°	1742.5	1550.5	1458.0	1191.3	1052.6	1066.8	1806.5	6052.5	9854.0	11418.6	12097.9
65°	1610.9	1426.0	1315.8	1102.4	970.8	924.6	1322.9	4434.5	7485.6	9263.6	10035.3
67.5°	1440.2	1266.0	1127.3	960.1	867.7	793.0	903.2	2496.4	4420.2	6219.6	6454.3
70°	1258.9	1109.5	963.7	825.0	721.9	668.5	661.4	1105.9	2112.3	3346.3	3808.6
72.5°	992.2	885.5	768.1	665.0	597.4	519.2	473.0	458.7	714.8	1362.0	1881.2
75°	711.2	622.3	554.8	487.2	437.4	394.7	359.2	327.2	298.7	341.4	469.4
77.5°	448.1	416.1	362.7	344.9	316.5	305.8	291.6	273.8	252.5	238.3	238.3
80°	302.3	280.9	263.2	259.6	248.9	245.4	248.9	231.1	209.8	192.0	199.1
82.5°	202.7	199.1	195.6	192.0	195.6	199.1	206.3	202.7	184.9	174.2	177.8
85°	120.9	128.0	135.1	142.2	156.5	138.7	113.8	96.0	85.3	78.2	74.7
87.5°	46.2	64.0	56.9	53.3	56.9	53.3	49.8	46.2	39.1	35.6	35.6
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°	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8	10888.8
2.5°	11774.3	11845.4	11905.8	11891.6	11767.1	11600.0	11532.4	11187.5	11116.4	11070.1
5°	11934.3	12346.8	12435.7	12382.3	12058.7	11649.8	11251.5	10746.5	10451.4	10440.7
7.5°	11639.1	12147.6	12307.7	12428.6	11998.3	11287.1	10604.3	9846.8	9661.9	9676.2
10°	10888.8	11699.6	12094.3	12218.8	11724.5	11109.3	10163.3	9395.2	9000.5	8993.4
12.5°	10472.7	11109.3	11219.5	11393.8	11248.0	10625.6	9907.3	9046.7	8662.7	8655.6
15°	10102.9	10522.5	10554.5	10799.9	10878.1	10458.5	9974.9	9057.4	8748.0	8716.0
17.5°	10426.5	10134.9	10014.0	10046.0	10277.1	10430.0	10366.0	9661.9	9345.4	9167.6
20°	10643.4	9992.6	9626.4	9661.9	9935.7	10494.1	10949.2	10536.7	10035.3	10056.7
22.5°	11223.1	10014.0	9441.5	9402.3	9836.2	10828.3	11607.1	11642.7	11159.0	11041.7
25°	12090.7	10259.4	9384.6	9373.9	9789.9	11187.5	12375.2	12951.3	12457.0	12240.1
27.5°	12787.7	10643.4	9562.4	9597.9	9935.7	11479.1	13029.6	13794.1	13417.2	13150.5
30°	13399.4	11041.7	9811.3	9647.7	10326.9	11632.0	13310.5	14754.3	14452.0	14231.5
32.5°	13651.9	11607.1	10206.0	9935.7	10650.5	11816.9	13893.7	15686.0	15426.4	14882.3
35°	14078.6	11923.6	10419.4	10398.0	11215.9	12261.4	14167.5	16301.2	16194.5	15710.9
37.5°	14420.0	12243.7	11176.8	10942.1	11991.2	13008.2	14608.5	17151.1	16905.7	16678.1
40°	14683.1	12816.2	11884.5	12193.9	12944.2	13687.4	15013.9	17204.4	17912.1	17250.6
42.5°	14441.3	13328.3	13047.3	13787.0	14498.2	14462.7	15060.1	17616.9	18146.8	17801.8
45°	14380.9	14196.0	14885.8	15557.9	15721.5	15106.3	14729.4	17161.7	18075.7	17922.8
47.5°	14235.1	15049.4	16251.4	17346.7	17097.7	15536.6	14334.6	17080.0	18118.3	17844.5
50°	14185.3	15234.3	17261.3	18328.1	18178.8	15910.0	14149.7	16553.7	17816.1	17791.2
52.5°	14181.7	15614.8	17680.9	18861.6	18954.0	16500.3	14402.2	16820.4	18050.8	18260.6
55°	14341.8	15493.9	17627.6	18566.4	18530.8	16237.2	14430.7	16998.2	18338.8	18545.1
57.5°	13527.4	13879.5	14548.0	15291.2	15099.2	13449.2	12887.3	15714.4	16831.0	16681.7
60°	11681.8	10579.4	9825.5	9789.9	9416.6	8900.9	10547.4	14025.3	14025.3	13879.5
62.5°	10230.9	6945.1	5967.1	5689.8	5956.5	6550.3	10174.0	13641.2	13253.6	13086.5
65°	8947.2	5302.1	4313.6	4235.3	4697.6	5593.7	9199.6	11621.3	10938.6	10383.8
67.5°	5757.3	3883.3	3207.6	3068.9	3627.2	4107.3	6123.6	7147.8	6717.5	6500.6
70°	3712.6	2528.4	1785.2	1674.9	1891.8	2531.9	3911.7	4167.8	3541.9	3396.1
72.5°	1756.7	1091.7	625.9	515.6	579.6	967.3	1546.9	1664.3	1383.3	1266.0
75°	558.3	401.8	256.0	220.5	209.8	248.9	355.6	273.8	199.1	195.6
77.5°	248.9	238.3	202.7	170.7	149.4	124.5	103.1	85.3	88.9	92.5
80°	206.3	188.5	167.1	149.4	124.5	96.0	74.7	56.9	56.9	60.5
82.5°	181.4	163.6	145.8	124.5	106.7	78.2	56.9	39.1	35.6	35.6
85°	78.2	92.5	99.6	106.7	85.3	64.0	39.1	24.9	21.3	21.3
87.5°	32.0	28.4	24.9	21.3	17.8	17.8	14.2	10.7	7.1	7.1
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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