

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: P532086

Luminaire Tested: **GALN-SA7B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532086
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-SA7B-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 23455 lumens
Efficiency: N/A
Efficacy: 82.0 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): 286
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



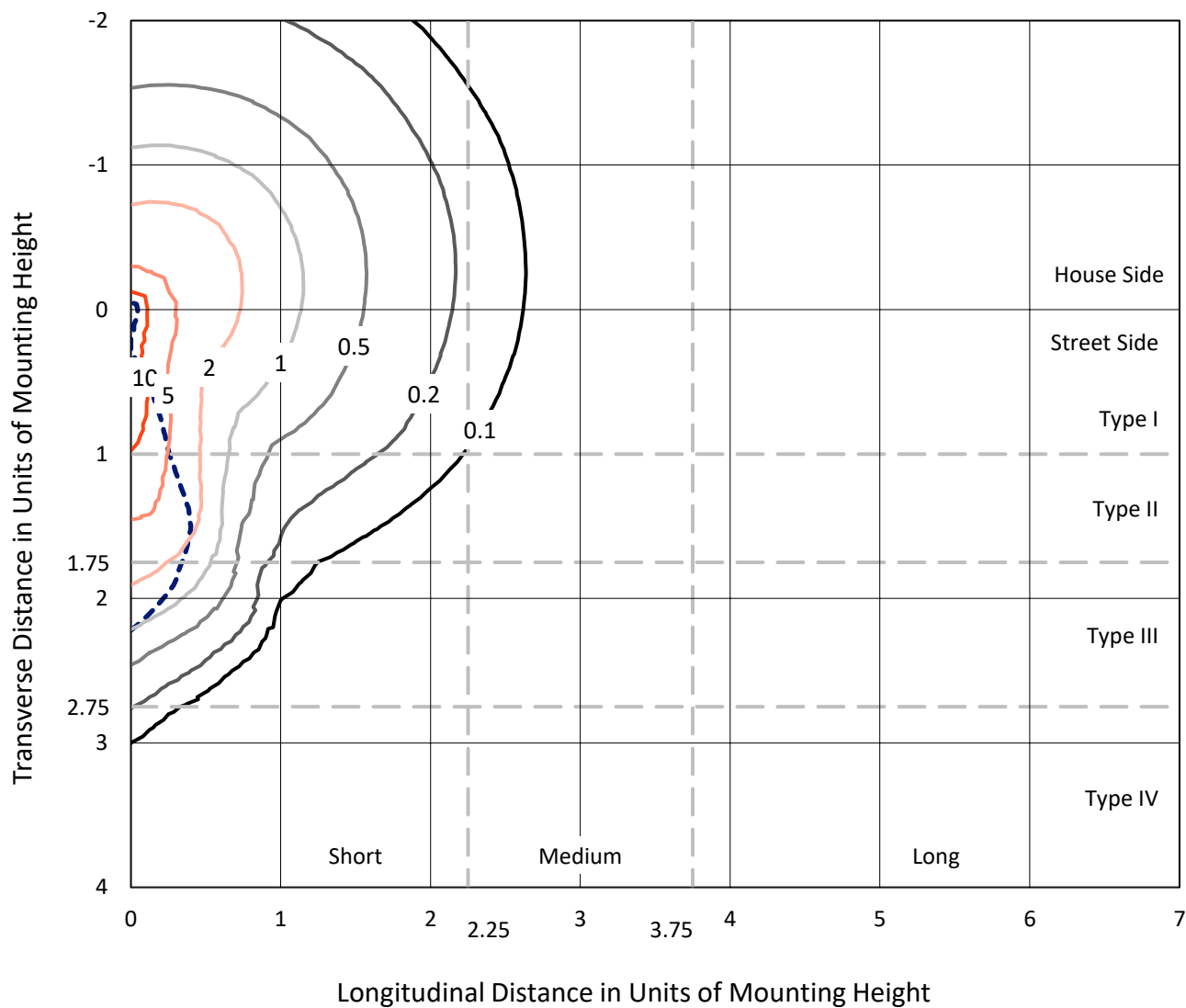
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



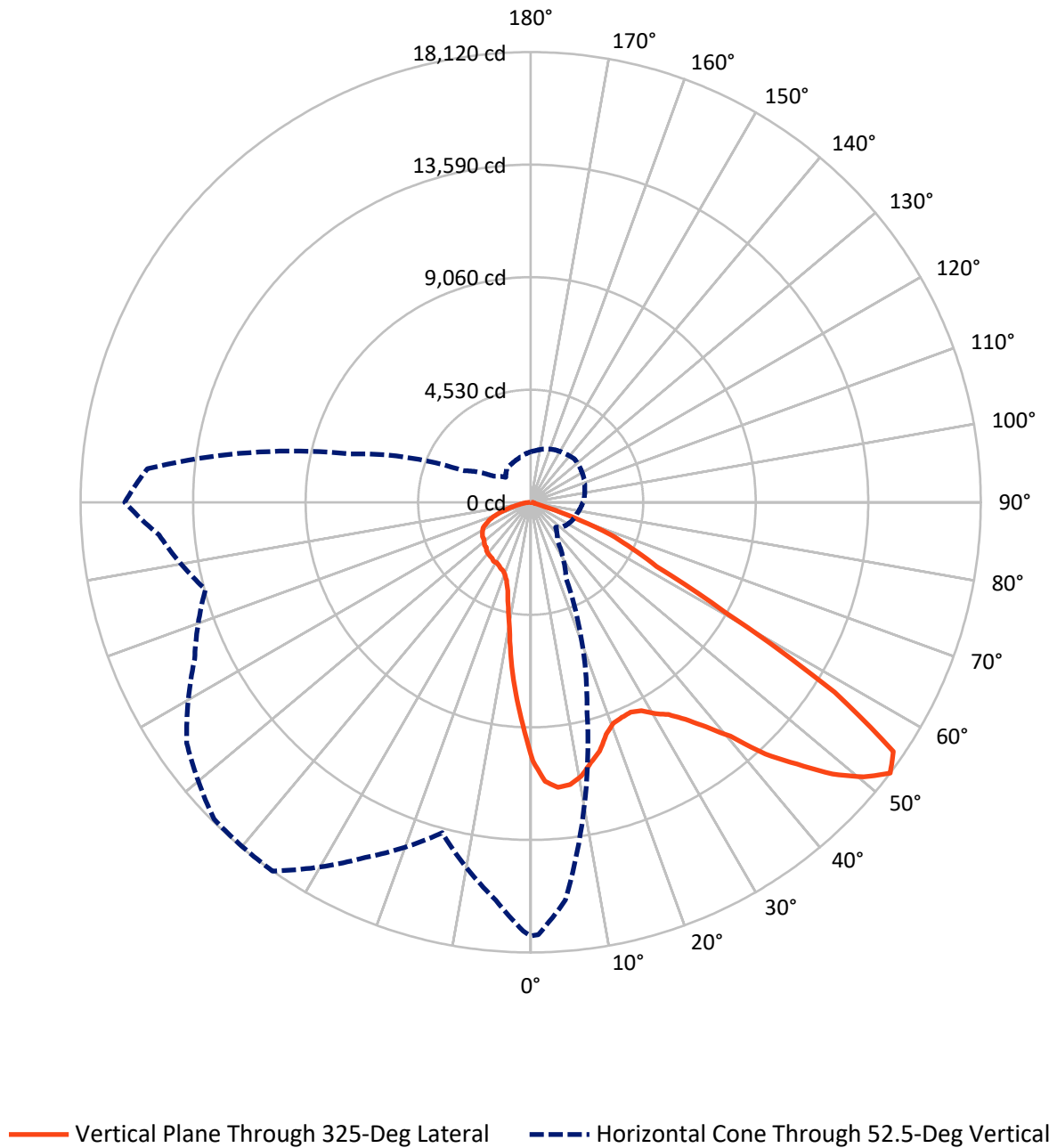
Based on 25 foot mounting height. Maximum calculated value = 16.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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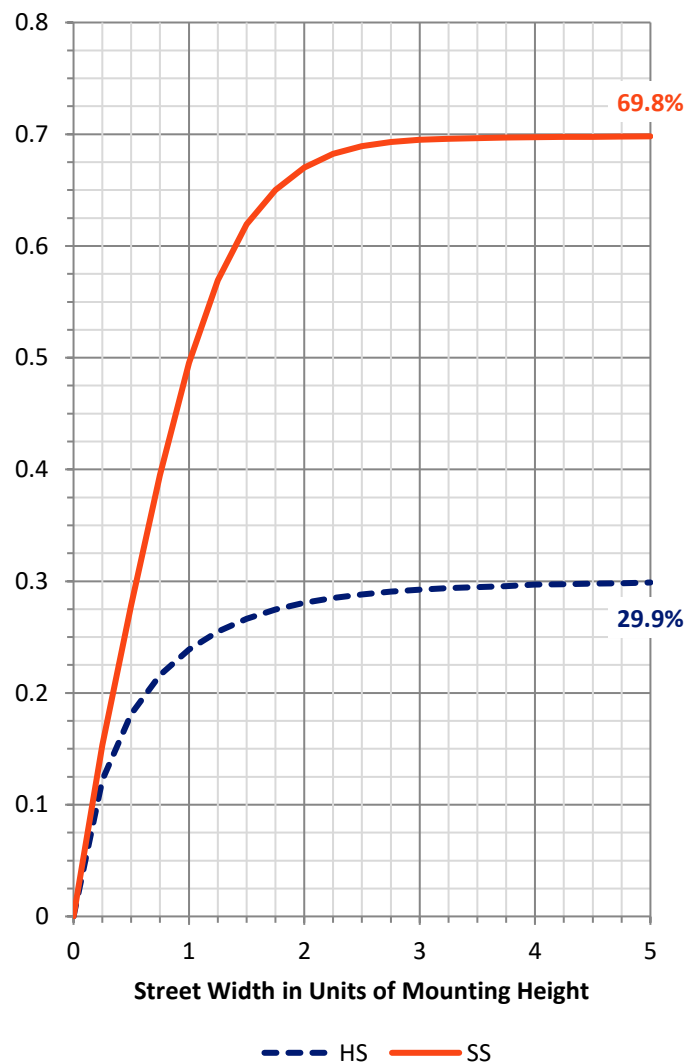
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7070.7	0.0	7070.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	16384.3	0.0	16384.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	23455.0	0.0	23455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.2	3.4
10°-20°	1721.6	7.3
20°-30°	2601.2	11.1
30°-40°	3758.8	16.0
40°-50°	5002.4	21.3
50°-60°	5595.3	23.9
60°-70°	3153.5	13.4
70°-80°	702.9	3.0
80°-90°	125.2	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°	23455.0	100.0
0°-180°	23455.0	100.0

Coefficient of Utilization



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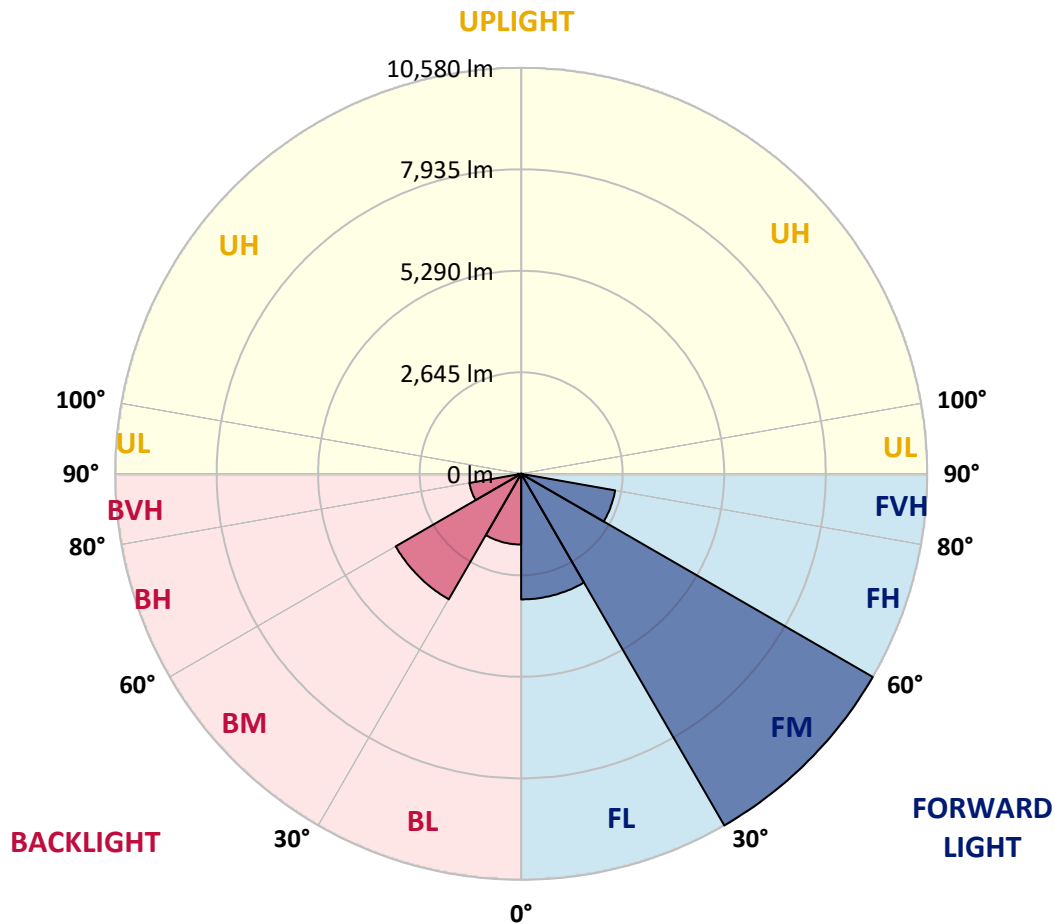
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3273.1	14.0			
FM	(30°-60°)	10580.0	45.1			
FH	(60°-80°)	2485.9	10.6			G2/5000
FVH	(80°-90°)	45.3	0.2			G1/100
BL	(0°-30°)	1843.9	7.9	B3/2500		
BM	(30°-60°)	3776.5	16.1	B3/5000		
BH	(60°-80°)	1370.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	79.9	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°	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5
2.5°	10582.9	10752.8	10569.3	10242.9	10011.7	9801.0	9580.0	9535.8	9246.8	9195.8	8985.1
5°	9981.1	9943.7	9719.4	9291.0	8818.5	8390.1	8074.0	7768.0	7560.6	7319.3	7302.3
7.5°	9250.2	9032.6	8903.5	8254.1	7669.4	6996.3	6707.3	6241.6	6095.4	5877.9	5765.7
10°	8597.5	8437.7	8135.2	7485.8	6669.9	6224.6	5915.2	5663.7	5493.7	5269.3	4987.2
12.5°	8274.5	8210.0	7870.0	6863.7	6258.6	5782.7	5565.1	5320.3	5031.4	4671.0	4531.6
15°	8332.3	8114.8	7856.4	6744.7	5908.4	5449.5	5102.7	4796.8	4426.2	4082.9	3882.3
17.5°	8764.1	8597.5	8080.8	6819.5	5775.9	5112.9	4484.0	4031.9	3698.7	3389.4	3250.0
20°	9614.0	9372.6	8791.3	6914.7	5490.3	4643.8	3923.1	3365.6	3008.6	2845.4	2797.8
22.5°	10555.7	10412.9	9484.8	7128.9	5262.5	4208.7	3328.2	2770.6	2638.1	2593.9	2682.3
25°	11701.3	11330.8	10562.5	7479.0	5085.8	3838.1	2825.0	2515.7	2447.7	2491.9	2593.9
27.5°	12571.6	12473.0	11317.2	7808.8	4844.4	3392.8	2542.9	2338.9	2359.3	2403.5	2498.7
30°	13605.1	13105.3	12048.1	8036.6	4626.8	3086.8	2345.7	2291.3	2311.7	2386.5	2434.1
32.5°	14227.2	14040.2	12507.0	8379.9	4375.2	2821.6	2192.7	2141.7	2172.3	2284.5	2396.7
35°	15019.3	14648.7	13074.7	8468.3	4198.5	2716.3	2083.9	2046.5	2117.9	2196.1	2321.9
37.5°	15944.0	15689.0	13860.0	8407.1	4103.3	2607.5	1992.1	1975.1	2026.1	2134.9	2281.1
40°	16491.3	16413.1	14271.4	8444.5	3953.7	2512.3	1886.8	1907.2	2012.5	2097.5	2240.3
42.5°	17018.2	16508.3	14879.9	8430.9	3858.5	2383.1	1897.0	1873.2	1954.8	2053.3	2189.3
45°	17133.8	16627.3	15022.7	8335.7	3742.9	2257.3	1818.8	1829.0	1927.6	2049.9	2138.3
47.5°	17059.0	16685.1	15287.9	8308.5	3634.1	2168.9	1703.2	1825.6	1883.4	1981.9	2107.7
50°	17008.0	16987.6	15512.2	8437.7	3488.0	2029.5	1563.8	1781.4	1839.2	1937.8	2073.7
52.5°	17456.8	17412.6	16073.2	8777.7	3372.4	1880.0	1421.0	1669.2	1808.6	1903.8	2036.3
55°	17728.7	17535.0	17035.2	9195.8	3178.6	1682.8	1322.4	1529.8	1733.8	1818.8	1954.8
57.5°	15947.4	15814.8	15410.2	8583.9	2852.2	1424.4	1200.0	1387.0	1631.8	1764.4	1903.8
60°	13268.5	13061.1	12024.3	7295.5	2104.3	1108.3	1125.3	1274.8	1604.6	1655.6	1818.8
62.5°	12510.4	11997.1	10586.3	5871.1	1614.8	951.9	1009.7	1172.9	1461.8	1546.8	1710.0
65°	9926.7	9546.0	7574.2	4239.3	1081.1	826.1	921.3	1057.3	1261.2	1427.8	1577.4
67.5°	6214.4	5850.7	4042.1	2005.7	754.7	707.1	822.7	965.5	1132.1	1281.6	1448.2
70°	3246.6	2848.8	1866.4	724.1	520.1	577.9	686.7	822.7	985.9	1108.3	1237.4
72.5°	1210.2	982.5	608.5	312.8	360.4	441.9	557.5	656.1	771.7	921.3	992.7
75°	187.0	159.8	156.4	190.4	244.8	319.6	397.7	496.3	598.3	693.5	741.1
77.5°	88.4	85.0	95.2	125.8	163.2	227.8	289.0	384.2	465.7	526.9	554.1
80°	57.8	54.4	61.2	85.0	122.4	170.0	231.2	295.8	370.6	421.5	414.7
82.5°	34.0	37.4	37.4	57.8	85.0	122.4	166.6	224.4	275.4	319.6	292.4
85°	20.4	17.0	17.0	34.0	57.8	98.6	139.4	95.2	98.6	98.6	112.2
87.5°	6.8	6.8	6.8	3.4	6.8	6.8	10.2	17.0	20.4	23.8	30.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5
2.5°	8978.3	9083.6	9046.2	8913.7	9015.7	9032.6	8964.7	9199.2	9243.4	9172.0	9192.4
5°	7278.5	7305.7	7366.9	7496.0	7587.8	7696.6	7696.6	7703.4	7611.6	7842.8	7774.8
7.5°	5670.5	5687.5	5758.9	6034.2	6112.4	6319.8	6408.2	6347.0	6163.4	6085.2	6149.8
10°	4895.4	4796.8	4773.0	4807.0	4983.8	5072.2	5146.9	5126.5	5096.0	5034.8	4966.8
12.5°	4378.6	4307.3	4249.5	4167.9	4178.1	4263.1	4320.8	4273.3	4286.9	4300.5	4320.8
15°	3817.7	3766.7	3736.1	3613.7	3600.1	3657.9	3678.3	3705.5	3756.5	3759.9	3736.1
17.5°	3222.8	3178.6	3246.6	3314.6	3267.0	3270.4	3307.8	3331.6	3318.0	3256.8	3226.2
20°	2814.8	2862.4	2930.4	2995.0	3046.0	3076.6	3090.2	3052.8	3008.6	2882.8	2879.4
22.5°	2695.9	2757.0	2814.8	2913.4	2961.0	3039.2	2967.8	2882.8	2821.6	2760.4	2689.1
25°	2607.5	2658.5	2774.0	2811.4	2903.2	2967.8	2916.8	2831.8	2726.5	2638.1	2583.7
27.5°	2542.9	2600.7	2675.5	2777.4	2848.8	2886.2	2835.2	2801.2	2692.5	2587.1	2508.9
30°	2502.1	2563.3	2699.3	2784.2	2845.4	2876.0	2787.6	2746.8	2668.7	2580.3	2512.3
32.5°	2474.9	2529.3	2644.9	2753.6	2794.4	2794.4	2808.0	2760.4	2651.7	2502.1	2444.3
35°	2386.5	2461.3	2556.5	2682.3	2757.0	2801.2	2733.3	2678.9	2607.5	2454.5	2349.1
37.5°	2335.5	2386.5	2508.9	2627.9	2692.5	2740.1	2712.9	2617.7	2522.5	2396.7	2311.7
40°	2281.1	2362.7	2471.5	2583.7	2655.1	2702.7	2682.3	2570.1	2454.5	2335.5	2277.7
42.5°	2243.7	2298.1	2410.3	2536.1	2621.1	2712.9	2651.7	2512.3	2430.7	2267.5	2202.9
45°	2213.1	2301.5	2420.5	2471.5	2559.9	2655.1	2546.3	2461.3	2366.1	2247.1	2192.7
47.5°	2175.7	2257.3	2335.5	2471.5	2512.3	2556.5	2536.1	2400.1	2318.5	2189.3	2151.9
50°	2162.1	2192.7	2335.5	2410.3	2468.1	2512.3	2457.9	2355.9	2277.7	2145.1	2063.5
52.5°	2107.7	2165.5	2257.3	2355.9	2427.3	2481.7	2393.3	2328.7	2223.3	2083.9	2032.9
55°	2039.7	2073.7	2236.9	2338.9	2376.3	2413.7	2379.7	2274.3	2165.5	2022.7	1971.7
57.5°	1951.4	2029.5	2162.1	2304.9	2352.5	2372.9	2318.5	2233.5	2097.5	1971.7	1890.2
60°	1859.6	1941.2	2087.3	2202.9	2250.5	2325.3	2243.7	2192.7	2036.3	1897.0	1808.6
62.5°	1767.8	1859.6	1968.3	2114.5	2155.3	2185.9	2165.5	2094.1	1968.3	1812.0	1703.2
65°	1659.0	1727.0	1863.0	1937.8	1964.9	2036.3	1964.9	1937.8	1825.6	1676.0	1584.2
67.5°	1495.8	1553.6	1672.6	1744.0	1764.4	1795.0	1791.6	1761.0	1635.2	1533.2	1451.6
70°	1308.8	1359.8	1434.6	1519.6	1529.8	1567.2	1533.2	1526.4	1444.8	1305.4	1261.2
72.5°	1050.5	1098.1	1196.6	1234.0	1237.4	1251.0	1234.0	1210.2	1189.8	1043.7	999.5
75°	805.7	832.9	880.5	914.5	914.5	931.5	921.3	897.5	843.1	751.3	707.1
77.5°	560.9	588.1	649.3	669.7	666.3	673.1	642.5	618.7	537.1	489.5	452.1
80°	407.9	424.9	455.5	469.1	472.5	482.7	445.3	424.9	377.4	323.0	306.0
82.5°	295.8	306.0	309.4	326.4	326.4	309.4	299.2	278.8	244.8	210.8	197.2
85°	122.4	125.8	129.2	149.6	153.0	183.6	170.0	159.8	139.4	119.0	108.8
87.5°	30.6	34.0	44.2	37.4	44.2	44.2	47.6	54.4	54.4	44.2	44.2
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°	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5
2.5°	9270.6	9297.8	9644.6	9688.8	9858.7	10032.1	10382.3	10633.8	10837.8	10970.4	11007.8
5°	7846.2	8019.6	8179.4	8437.7	8672.3	9005.5	9389.6	9865.5	10463.9	10769.8	10892.2
7.5°	6143.0	6347.0	6578.2	6829.7	7173.1	7771.4	8284.7	8835.5	9600.4	9916.5	10395.9
10°	5014.4	5242.1	5548.1	5741.9	6156.6	6727.7	7326.1	7961.8	8692.7	9148.2	9702.4
12.5°	4433.0	4620.0	4902.2	5310.1	5619.5	5990.0	6435.4	7237.7	8284.7	8716.5	9097.2
15°	3790.5	3997.9	4324.2	4776.4	5146.9	5588.9	6088.6	6962.3	8077.4	8743.7	9066.6
17.5°	3260.2	3409.8	3753.1	4144.1	4569.0	5051.8	5769.1	6948.7	8294.9	9148.2	9675.2
20°	2893.0	2913.4	3100.4	3433.6	4011.5	4640.4	5571.9	6880.7	8991.9	9845.1	10511.5
22.5°	2661.9	2641.5	2644.9	2927.0	3331.6	4235.9	5262.5	7111.9	9784.0	10953.4	11402.1
25°	2546.3	2491.9	2457.9	2519.1	2886.2	3756.5	5028.0	7417.9	10637.2	11867.9	12418.6
27.5°	2485.1	2389.9	2321.9	2332.1	2600.7	3515.2	4881.8	7550.4	11483.7	13142.7	13336.5
30°	2461.3	2342.3	2243.7	2209.7	2386.5	3178.6	4569.0	7778.2	12241.8	13843.0	14009.6
32.5°	2376.3	2230.1	2134.9	2104.3	2175.7	2882.8	4344.6	7941.4	12911.6	14604.5	14546.7
35°	2277.7	2155.3	2036.3	1978.5	2029.5	2692.5	4164.5	7863.2	13700.3	15196.1	15165.5
37.5°	2267.5	2107.7	2009.1	1914.0	1910.6	2457.9	3919.7	7938.0	14203.4	16256.7	15838.6
40°	2179.1	2077.1	1948.0	1869.8	1825.6	2338.9	3681.7	7761.2	14941.1	16685.1	16273.7
42.5°	2182.5	2029.5	1917.4	1825.6	1781.4	2165.5	3518.6	7713.6	15199.5	17382.0	16477.7
45°	2128.1	1978.5	1883.4	1774.6	1750.8	2032.9	3362.2	7492.6	15655.0	17416.0	16222.7
47.5°	2073.7	1941.2	1839.2	1710.0	1655.6	1985.3	3239.8	7309.1	15417.0	17096.4	15869.2
50°	2036.3	1883.4	1788.2	1696.4	1543.4	1903.8	3080.0	7264.9	15083.9	16664.7	15213.1
52.5°	1971.7	1835.8	1737.2	1665.8	1421.0	1829.0	3018.8	7523.2	15491.8	16341.7	15022.7
55°	1910.6	1771.2	1645.4	1506.0	1319.0	1631.8	2848.8	7764.6	16086.7	17086.2	15886.2
57.5°	1846.0	1713.4	1577.4	1410.8	1220.4	1427.8	2672.1	7808.8	14971.7	15791.0	15080.5
60°	1761.0	1591.0	1489.0	1271.4	1115.1	1183.0	2117.9	6884.1	11612.9	13186.9	13210.7
62.5°	1665.8	1482.2	1393.8	1138.9	1006.3	1019.9	1727.0	5786.1	9420.2	10916.0	11565.3
65°	1540.0	1363.2	1257.8	1053.9	928.1	883.9	1264.6	4239.3	7156.1	8855.9	9593.6
67.5°	1376.8	1210.2	1077.7	917.9	829.5	758.1	863.5	2386.5	4225.7	5945.8	6170.2
70°	1203.4	1060.7	921.3	788.7	690.1	639.1	632.3	1057.3	2019.3	3199.0	3640.9
72.5°	948.5	846.5	734.3	635.7	571.1	496.3	452.1	438.5	683.3	1302.0	1798.4
75°	679.9	594.9	530.3	465.7	418.1	377.4	343.4	312.8	285.6	326.4	448.7
77.5°	428.3	397.7	346.8	329.8	302.6	292.4	278.8	261.8	241.4	227.8	227.8
80°	289.0	268.6	251.6	248.2	238.0	234.6	238.0	221.0	200.6	183.6	190.4
82.5°	193.8	190.4	187.0	183.6	187.0	190.4	197.2	193.8	176.8	166.6	170.0
85°	115.6	122.4	129.2	136.0	149.6	132.6	108.8	91.8	81.6	74.8	71.4
87.5°	44.2	61.2	54.4	51.0	54.4	51.0	47.6	44.2	37.4	34.0	34.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5	10409.5
2.5°	11256.0	11324.0	11381.7	11368.2	11249.2	11089.4	11024.8	10695.0	10627.0	10582.9
5°	11408.9	11803.3	11888.3	11837.3	11527.9	11137.0	10756.2	10273.5	9991.3	9981.1
7.5°	11126.8	11612.9	11765.9	11881.5	11470.1	10790.2	10137.5	9413.4	9236.6	9250.2
10°	10409.5	11184.6	11561.9	11680.9	11208.4	10620.2	9716.0	8981.7	8604.3	8597.5
12.5°	10011.7	10620.2	10725.6	10892.2	10752.8	10157.9	9471.2	8648.5	8281.3	8274.5
15°	9658.2	10059.3	10089.9	10324.5	10399.3	9998.1	9535.8	8658.7	8362.9	8332.3
17.5°	9967.5	9688.8	9573.2	9603.8	9824.7	9970.9	9909.7	9236.6	8934.1	8764.1
20°	10174.9	9552.8	9202.6	9236.6	9498.4	10032.1	10467.3	10072.9	9593.6	9614.0
22.5°	10729.0	9573.2	9025.8	8988.5	9403.2	10351.7	11096.2	11130.2	10667.8	10555.7
25°	11558.5	9807.7	8971.5	8961.3	9359.0	10695.0	11830.5	12381.2	11908.7	11701.3
27.5°	12224.8	10174.9	9141.4	9175.4	9498.4	10973.8	12456.0	13186.9	12826.6	12571.6
30°	12809.6	10555.7	9379.4	9223.0	9872.3	11120.0	12724.6	14104.8	13815.8	13605.1
32.5°	13050.9	11096.2	9756.8	9498.4	10181.7	11296.8	13282.1	14995.5	14747.3	14227.2
35°	13458.9	11398.7	9960.7	9940.3	10722.2	11721.7	13543.9	15583.6	15481.6	15019.3
37.5°	13785.2	11704.7	10684.8	10460.5	11463.3	12435.6	13965.4	16396.1	16161.5	15944.0
40°	14036.8	12252.0	11361.4	11657.1	12374.4	13084.9	14353.0	16447.1	17123.6	16491.3
42.5°	13805.6	12741.6	12473.0	13180.1	13860.0	13826.0	14397.2	16841.5	17348.0	17018.2
45°	13747.8	13571.1	14230.6	14873.1	15029.5	14441.4	14081.0	16406.3	17280.0	17133.8
47.5°	13608.5	14387.0	15536.0	16583.1	16345.1	14852.7	13703.7	16328.1	17320.8	17059.0
50°	13560.9	14563.7	16501.5	17521.4	17378.6	15209.7	13526.9	15825.0	17031.8	17008.0
52.5°	13557.5	14927.5	16902.6	18031.3	18119.7	15774.0	13768.2	16080.0	17256.2	17456.8
55°	13710.5	14811.9	16851.7	17749.1	17715.1	15522.4	13795.4	16249.9	17531.6	17728.7
57.5°	12932.0	13268.5	13907.6	14618.1	14434.6	12857.2	12320.0	15022.7	16090.1	15947.4
60°	11167.6	10113.7	9393.0	9359.0	9002.1	8509.1	10083.1	13407.9	13407.9	13268.5
62.5°	9780.6	6639.4	5704.5	5439.3	5694.3	6262.0	9726.2	13040.7	12670.2	12510.4
65°	8553.3	5068.8	4123.7	4048.9	4490.8	5347.5	8794.7	11109.8	10457.1	9926.7
67.5°	5503.9	3712.3	3066.4	2933.8	3467.6	3926.5	5854.1	6833.1	6421.8	6214.4
70°	3549.1	2417.1	1706.6	1601.2	1808.6	2420.5	3739.5	3984.3	3386.0	3246.6
72.5°	1679.4	1043.7	598.3	492.9	554.1	924.7	1478.8	1591.0	1322.4	1210.2
75°	533.7	384.2	244.8	210.8	200.6	238.0	340.0	261.8	190.4	187.0
77.5°	238.0	227.8	193.8	163.2	142.8	119.0	98.6	81.6	85.0	88.4
80°	197.2	180.2	159.8	142.8	119.0	91.8	71.4	54.4	54.4	57.8
82.5°	173.4	156.4	139.4	119.0	102.0	74.8	54.4	37.4	34.0	34.0
85°	74.8	88.4	95.2	102.0	81.6	61.2	37.4	23.8	20.4	20.4
87.5°	30.6	27.2	23.8	20.4	17.0	17.0	13.6	10.2	6.8	6.8
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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