

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: P531618

Luminaire Tested: **GALN-SA6D-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531618
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-SA6D-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 27149 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 368
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



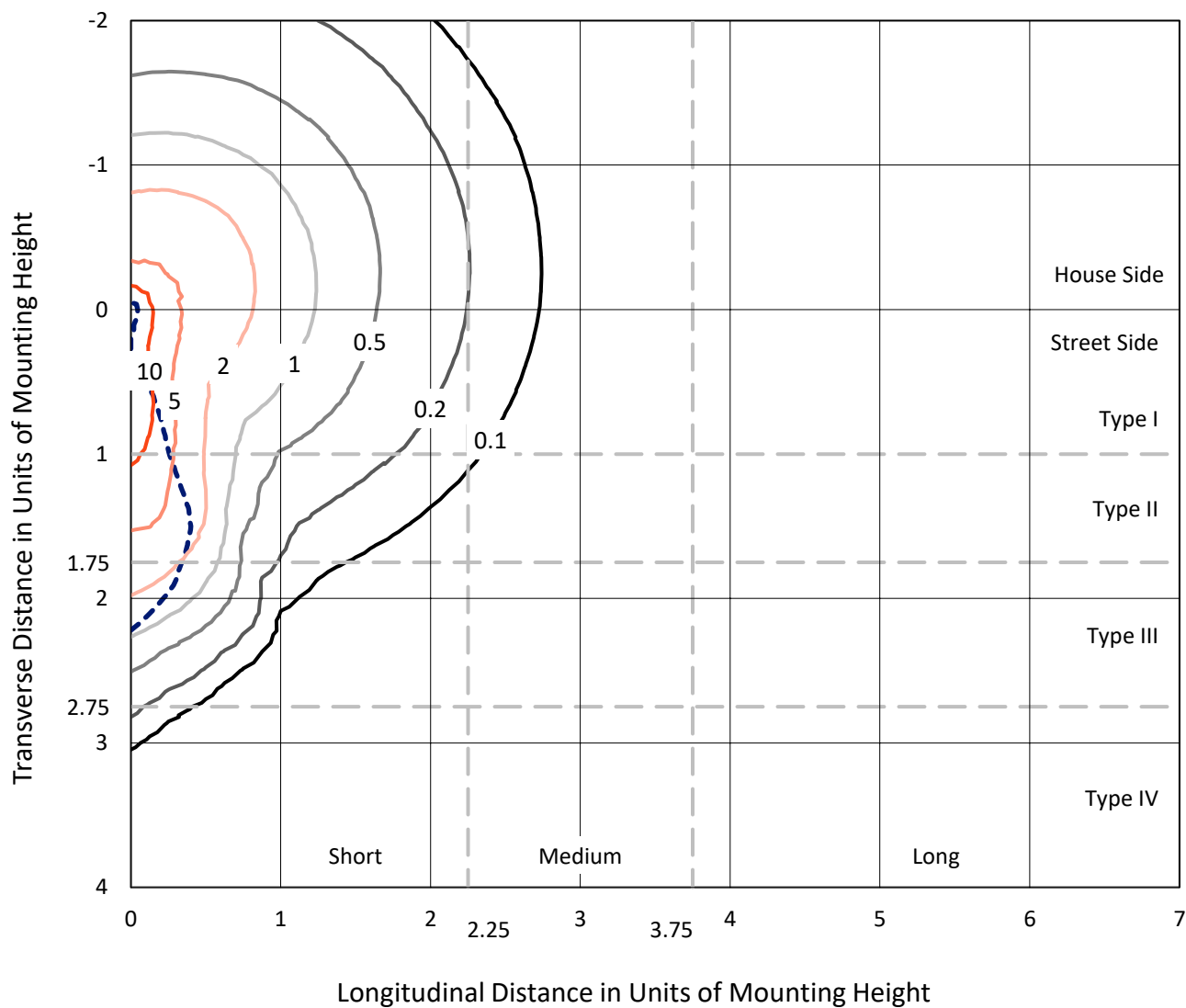
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

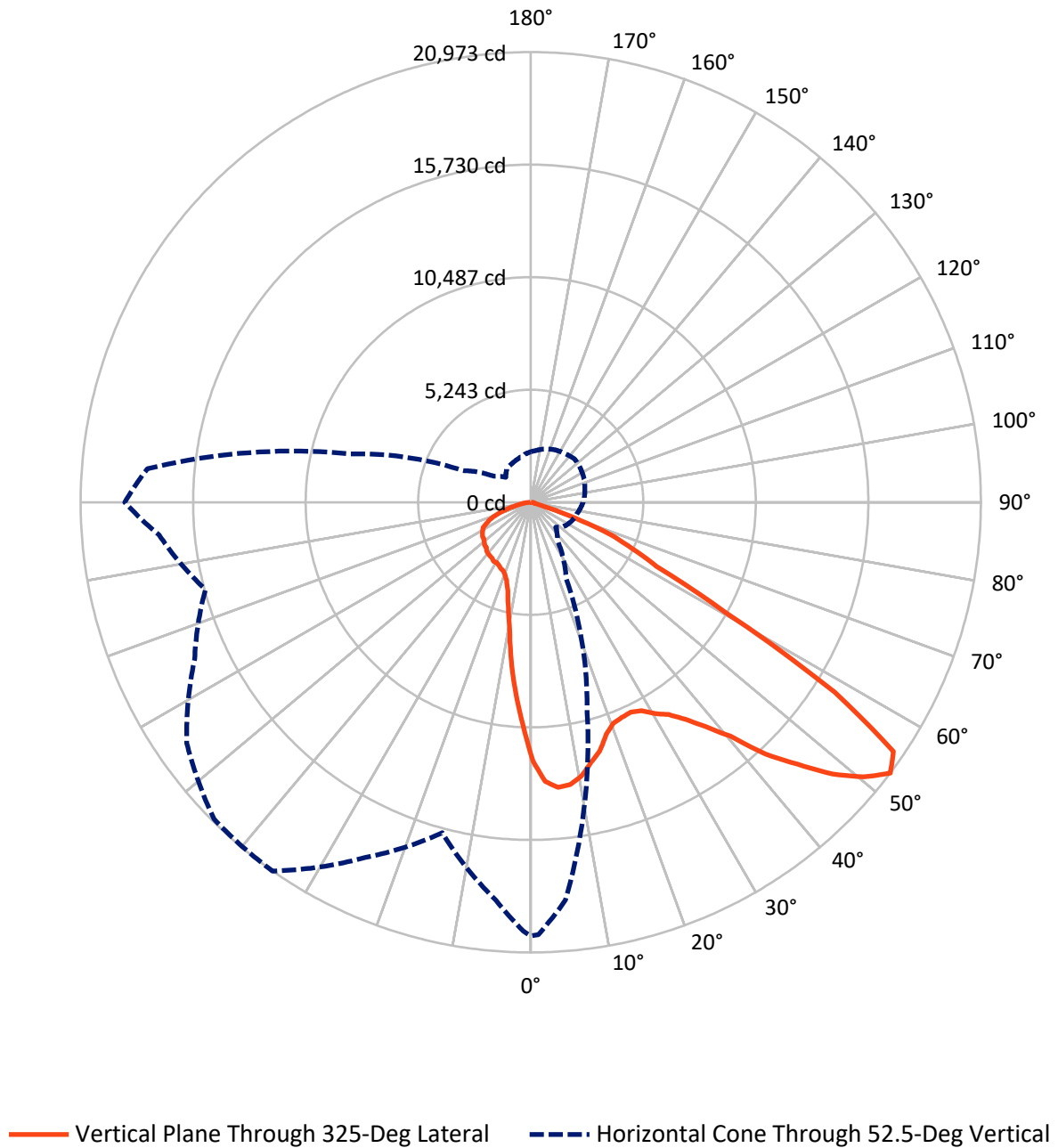


Based on 25 foot mounting height. Maximum calculated value = 19.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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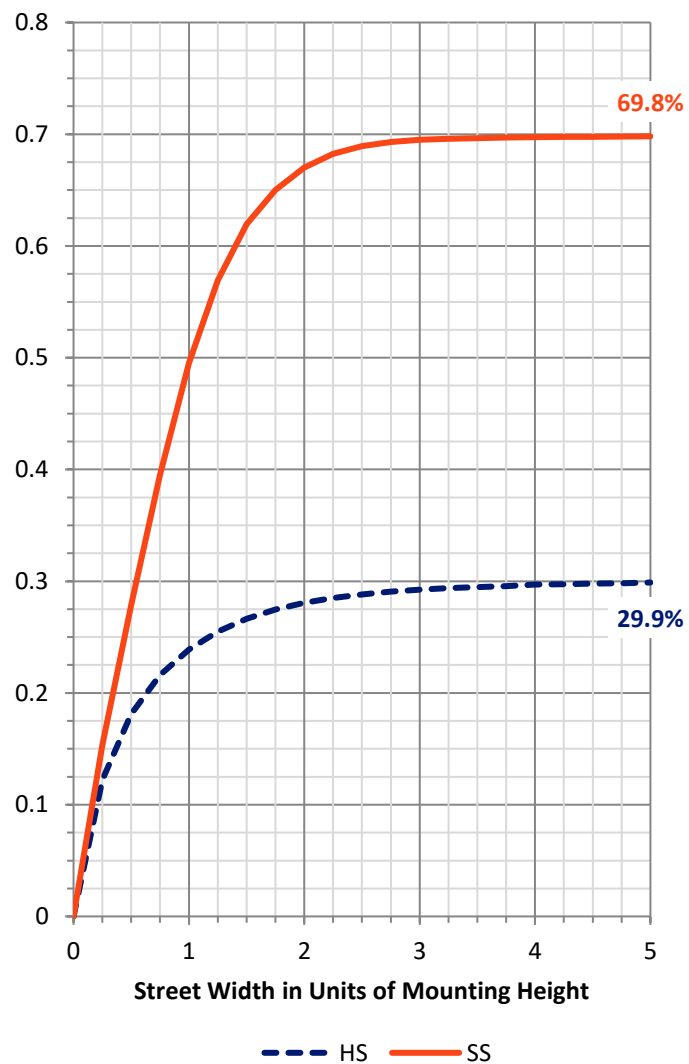
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8184.3	0.0	8184.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	18964.7	0.0	18964.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	27149.0	0.0	27149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.2	3.4
10°-20°	1992.7	7.3
20°-30°	3010.9	11.1
30°-40°	4350.8	16.0
40°-50°	5790.2	21.3
50°-60°	6476.5	23.9
60°-70°	3650.1	13.4
70°-80°	813.7	3.0
80°-90°	144.9	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°	27149.0	100.0
0°-180°	27149.0	100.0

Coefficient of Utilization



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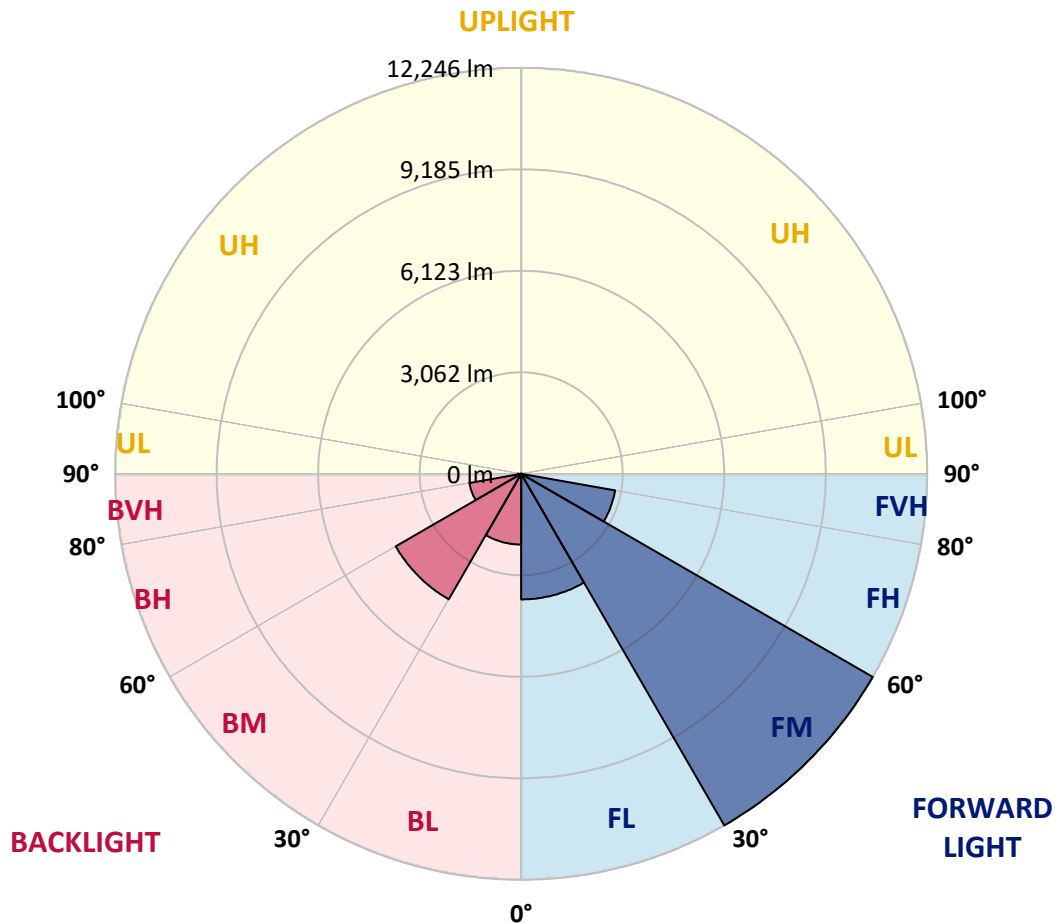
CATALOG NUMBER: GALN-SA6D-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3788.6	14.0			
FM	(30°-60°)	12246.3	45.1			
FH	(60°-80°)	2877.4	10.6			G2/5000
FVH	(80°-90°)	52.5	0.2			G1/100
BL	(0°-30°)	2134.3	7.9	B3/2500		
BM	(30°-60°)	4371.2	16.1	B3/5000		
BH	(60°-80°)	1586.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	92.4	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°	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9
2.5°	12249.6	12446.3	12233.8	11856.1	11588.5	11344.5	11088.8	11037.6	10703.1	10644.1	10400.1
5°	11553.1	11509.8	11250.1	10754.3	10207.3	9711.5	9345.6	8991.4	8751.4	8472.0	8452.3
7.5°	10707.1	10455.2	10305.7	9554.1	8877.3	8098.2	7763.7	7224.6	7055.4	6803.6	6673.7
10°	9951.6	9766.6	9416.4	8664.8	7720.4	7204.9	6846.9	6555.7	6358.9	6099.2	5772.6
12.5°	9577.7	9503.0	9109.5	7944.7	7244.3	6693.4	6441.6	6158.2	5823.8	5406.7	5245.3
15°	9644.6	9392.8	9093.7	7807.0	6839.0	6307.8	5906.4	5552.2	5123.3	4725.9	4493.7
17.5°	10144.4	9951.6	9353.4	7893.6	6685.5	5918.2	5190.2	4666.9	4281.3	3923.2	3761.8
20°	11128.1	10848.7	10175.8	8003.7	6355.0	5375.2	4541.0	3895.6	3482.5	3293.6	3238.5
22.5°	12218.1	12052.8	10978.6	8251.6	6091.3	4871.5	3852.3	3207.0	3053.5	3002.4	3104.7
25°	13544.2	13115.3	12226.0	8656.9	5886.7	4442.6	3270.0	2911.9	2833.2	2884.3	3002.4
27.5°	14551.5	14437.4	13099.5	9038.6	5607.3	3927.1	2943.4	2707.3	2730.9	2782.0	2892.2
30°	15747.8	15169.3	13945.6	9302.3	5355.5	3573.0	2715.1	2652.2	2675.8	2762.4	2817.4
32.5°	16467.9	16251.4	14476.8	9699.7	5064.3	3266.0	2538.1	2479.0	2514.4	2644.3	2774.2
35°	17384.7	16955.8	15133.9	9802.0	4859.7	3144.0	2412.1	2368.9	2451.5	2542.0	2687.6
37.5°	18455.0	18159.9	16042.9	9731.2	4749.5	3018.1	2305.9	2286.2	2345.2	2471.2	2640.4
40°	19088.6	18998.1	16519.0	9774.5	4576.4	2907.9	2183.9	2207.5	2329.5	2427.9	2593.1
42.5°	19698.5	19108.2	17223.4	9758.7	4466.2	2758.4	2195.7	2168.2	2262.6	2376.7	2534.1
45°	19832.3	19246.0	17388.7	9648.6	4332.4	2612.8	2105.2	2117.0	2231.1	2372.8	2475.1
47.5°	19745.7	19312.9	17695.6	9617.1	4206.5	2510.5	1971.4	2113.1	2180.0	2294.1	2439.7
50°	19686.7	19663.1	17955.3	9766.6	4037.3	2349.2	1810.1	2061.9	2128.8	2242.9	2400.3
52.5°	20206.1	20154.9	18604.6	10160.1	3903.5	2176.0	1644.8	1932.1	2093.4	2203.6	2357.0
55°	20520.9	20296.6	19718.2	10644.1	3679.2	1947.8	1530.7	1770.7	2006.8	2105.2	2262.6
57.5°	18459.0	18305.5	17837.2	9935.8	3301.4	1648.8	1389.0	1605.5	1888.8	2042.3	2203.6
60°	15358.2	15118.2	13918.0	8444.5	2435.7	1282.8	1302.5	1475.6	1857.3	1916.3	2105.2
62.5°	14480.7	13886.5	12253.5	6795.7	1869.1	1101.8	1168.7	1357.6	1692.0	1790.4	1979.3
65°	11490.1	11049.4	8767.1	4906.9	1251.3	956.2	1066.4	1223.8	1459.9	1652.7	1825.8
67.5°	7193.1	6772.1	4678.7	2321.6	873.6	818.5	952.3	1117.5	1310.3	1483.5	1676.3
70°	3757.9	3297.5	2160.3	838.1	602.1	668.9	794.9	952.3	1141.1	1282.8	1432.3
72.5°	1400.9	1137.2	704.4	362.0	417.1	511.5	645.3	759.5	893.2	1066.4	1149.0
75°	216.4	184.9	181.0	220.4	283.3	369.9	460.4	574.5	692.6	802.7	857.8
77.5°	102.3	98.4	110.2	145.6	188.9	263.6	334.5	444.7	539.1	609.9	641.4
80°	66.9	63.0	70.8	98.4	141.7	196.7	267.6	342.3	428.9	487.9	480.1
82.5°	39.3	43.3	43.3	66.9	98.4	141.7	192.8	259.7	318.7	369.9	338.4
85°	23.6	19.7	19.7	39.3	66.9	114.1	161.3	110.2	114.1	114.1	129.9
87.5°	7.9	7.9	7.9	3.9	7.9	7.9	11.8	19.7	23.6	27.5	35.4
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°	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9
2.5°	10392.3	10514.3	10471.0	10317.5	10435.6	10455.2	10376.5	10648.0	10699.2	10616.6	10640.2
5°	8424.8	8456.3	8527.1	8676.6	8782.9	8908.8	8908.8	8916.7	8810.4	9078.0	8999.3
7.5°	6563.5	6583.2	6665.8	6984.6	7075.1	7315.1	7417.4	7346.6	7134.1	7043.6	7118.4
10°	5666.4	5552.2	5524.7	5564.1	5768.7	5871.0	5957.6	5933.9	5898.5	5827.7	5749.0
12.5°	5068.2	4985.6	4918.7	4824.3	4836.1	4934.5	5001.4	4946.3	4962.0	4977.7	5001.4
15°	4419.0	4360.0	4324.5	4182.9	4167.1	4234.0	4257.6	4289.1	4348.1	4352.1	4324.5
17.5°	3730.4	3679.2	3757.9	3836.6	3781.5	3785.4	3828.7	3856.3	3840.5	3769.7	3734.3
20°	3258.2	3313.2	3391.9	3466.7	3525.7	3561.2	3576.9	3533.6	3482.5	3336.9	3332.9
22.5°	3120.4	3191.3	3258.2	3372.3	3427.4	3517.9	3435.2	3336.9	3266.0	3195.2	3112.6
25°	3018.1	3077.2	3210.9	3254.2	3360.5	3435.2	3376.2	3277.8	3155.8	3053.5	2990.6
27.5°	2943.4	3010.3	3096.8	3214.9	3297.5	3340.8	3281.8	3242.4	3116.5	2994.5	2904.0
30°	2896.1	2967.0	3124.4	3222.7	3293.6	3329.0	3226.7	3179.5	3089.0	2986.6	2907.9
32.5°	2864.7	2927.6	3061.4	3187.3	3234.5	3234.5	3250.3	3195.2	3069.3	2896.1	2829.2
35°	2762.4	2848.9	2959.1	3104.7	3191.3	3242.4	3163.7	3100.8	3018.1	2841.1	2719.1
37.5°	2703.3	2762.4	2904.0	3041.7	3116.5	3171.6	3140.1	3029.9	2919.8	2774.2	2675.8
40°	2640.4	2734.8	2860.7	2990.6	3073.2	3128.3	3104.7	2974.8	2841.1	2703.3	2636.4
42.5°	2597.1	2660.0	2789.9	2935.5	3033.9	3140.1	3069.3	2907.9	2813.5	2624.6	2549.9
45°	2561.7	2664.0	2801.7	2860.7	2963.0	3073.2	2947.3	2848.9	2738.7	2601.0	2538.1
47.5°	2518.4	2612.8	2703.3	2860.7	2907.9	2959.1	2935.5	2778.1	2683.7	2534.1	2490.8
50°	2502.6	2538.1	2703.3	2789.9	2856.8	2907.9	2845.0	2726.9	2636.4	2483.0	2388.5
52.5°	2439.7	2506.6	2612.8	2726.9	2809.6	2872.5	2770.2	2695.5	2573.5	2412.1	2353.1
55°	2361.0	2400.3	2589.2	2707.3	2750.5	2793.8	2754.5	2632.5	2506.6	2341.3	2282.3
57.5°	2258.7	2349.2	2502.6	2667.9	2723.0	2746.6	2683.7	2585.3	2427.9	2282.3	2187.8
60°	2152.4	2246.9	2416.1	2549.9	2605.0	2691.5	2597.1	2538.1	2357.0	2195.7	2093.4
62.5°	2046.2	2152.4	2278.4	2447.6	2494.8	2530.2	2506.6	2423.9	2278.4	2097.3	1971.4
65°	1920.3	1999.0	2156.4	2242.9	2274.4	2357.0	2274.4	2242.9	2113.1	1939.9	1833.7
67.5°	1731.4	1798.3	1936.0	2018.6	2042.3	2077.7	2073.7	2038.3	1892.7	1774.7	1680.2
70°	1515.0	1574.0	1660.6	1758.9	1770.7	1814.0	1774.7	1766.8	1672.4	1511.0	1459.9
72.5°	1215.9	1271.0	1385.1	1428.4	1432.3	1448.1	1428.4	1400.9	1377.2	1208.0	1156.9
75°	932.6	964.1	1019.2	1058.5	1058.5	1078.2	1066.4	1038.8	975.9	869.6	818.5
77.5°	649.3	680.8	751.6	775.2	771.3	779.1	743.7	716.2	621.7	566.6	523.4
80°	472.2	491.9	527.3	543.0	547.0	558.8	515.5	491.9	436.8	373.8	354.1
82.5°	342.3	354.1	358.1	377.8	377.8	358.1	346.3	322.7	283.3	244.0	228.2
85°	141.7	145.6	149.5	173.1	177.1	212.5	196.7	184.9	161.3	137.7	125.9
87.5°	35.4	39.3	51.2	43.3	51.2	51.2	55.1	63.0	63.0	51.2	51.2
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°	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9
2.5°	10730.7	10762.2	11163.5	11214.7	11411.4	11612.1	12017.4	12308.6	12544.7	12698.2	12741.4
5°	9081.9	9282.6	9467.5	9766.6	10038.1	10423.7	10868.4	11419.3	12111.9	12466.0	12607.7
7.5°	7110.5	7346.6	7614.2	7905.4	8302.8	8995.4	9589.5	10227.0	11112.4	11478.3	12033.2
10°	5804.1	6067.7	6421.9	6646.2	7126.2	7787.3	8479.9	9215.7	10061.7	10589.0	11230.4
12.5°	5131.2	5347.6	5674.2	6146.4	6504.5	6933.4	7448.9	8377.6	9589.5	10089.3	10530.0
15°	4387.5	4627.5	5005.3	5528.6	5957.6	6469.1	7047.5	8058.8	9349.5	10120.8	10494.6
17.5°	3773.6	3946.8	4344.2	4796.7	5288.6	5847.4	6677.7	8043.1	9601.3	10589.0	11198.9
20°	3348.7	3372.3	3588.7	3974.3	4643.3	5371.2	6449.4	7964.4	10408.0	11395.7	12166.9
22.5°	3081.1	3057.5	3061.4	3388.0	3856.3	4903.0	6091.3	8232.0	11324.9	12678.5	13197.9
25°	2947.3	2884.3	2845.0	2915.8	3340.8	4348.1	5819.8	8586.1	12312.5	13737.0	14374.5
27.5°	2876.5	2766.3	2687.6	2699.4	3010.3	4068.8	5650.6	8739.6	13292.3	15212.6	15436.9
30°	2848.9	2711.2	2597.1	2557.7	2762.4	3679.2	5288.6	9003.2	14169.8	16023.2	16216.0
32.5°	2750.5	2581.3	2471.2	2435.7	2518.4	3336.9	5028.9	9192.1	14945.0	16904.7	16837.8
35°	2636.4	2494.8	2357.0	2290.2	2349.2	3116.5	4820.3	9101.6	15857.9	17589.3	17553.9
37.5°	2624.6	2439.7	2325.6	2215.4	2211.5	2845.0	4537.0	9188.2	16440.3	18817.0	18333.0
40°	2522.3	2404.3	2254.7	2164.2	2113.1	2707.3	4261.6	8983.5	17294.2	19312.9	18836.7
42.5°	2526.3	2349.2	2219.3	2113.1	2061.9	2506.6	4072.7	8928.5	17593.3	20119.5	19072.8
45°	2463.3	2290.2	2180.0	2054.1	2026.5	2353.1	3891.7	8672.7	18120.6	20158.9	18777.7
47.5°	2400.3	2246.9	2128.8	1979.3	1916.3	2298.0	3750.0	8460.2	17845.1	19789.0	18368.5
50°	2357.0	2180.0	2069.8	1963.6	1786.5	2203.6	3565.1	8409.0	17459.5	19289.2	17609.0
52.5°	2282.3	2124.9	2010.8	1928.1	1644.8	2117.0	3494.3	8708.1	17931.7	18915.4	17388.7
55°	2211.5	2050.1	1904.5	1743.2	1526.8	1888.8	3297.5	8987.5	18620.3	19777.2	18388.1
57.5°	2136.7	1983.2	1825.8	1633.0	1412.7	1652.7	3092.9	9038.6	17329.6	18278.0	17455.5
60°	2038.3	1841.6	1723.5	1471.7	1290.7	1369.4	2451.5	7968.3	13441.9	15263.8	15291.3
62.5°	1928.1	1715.6	1613.3	1318.2	1164.8	1180.5	1999.0	6697.3	10903.8	12635.2	13386.8
65°	1782.5	1577.9	1455.9	1219.8	1074.2	1023.1	1463.8	4906.9	8283.1	10250.6	11104.5
67.5°	1593.7	1400.9	1247.4	1062.4	960.1	877.5	999.5	2762.4	4891.2	6882.3	7142.0
70°	1393.0	1227.7	1066.4	912.9	798.8	739.8	731.9	1223.8	2337.4	3702.8	4214.4
72.5°	1097.9	979.8	850.0	735.8	661.1	574.5	523.4	507.6	790.9	1507.1	2081.6
75°	787.0	688.6	613.9	539.1	484.0	436.8	397.4	362.0	330.5	377.8	519.4
77.5°	495.8	460.4	401.4	381.7	350.2	338.4	322.7	303.0	279.4	263.6	263.6
80°	334.5	310.9	291.2	287.3	275.4	271.5	275.4	255.8	232.2	212.5	220.4
82.5°	224.3	220.4	216.4	212.5	216.4	220.4	228.2	224.3	204.6	192.8	196.7
85°	133.8	141.7	149.5	157.4	173.1	153.5	125.9	106.2	94.4	86.6	82.6
87.5°	51.2	70.8	63.0	59.0	63.0	59.0	55.1	51.2	43.3	39.3	39.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9	12048.9
2.5°	13028.7	13107.4	13174.3	13158.6	13020.8	12835.9	12761.1	12379.4	12300.7	12249.6
5°	13205.8	13662.2	13760.6	13701.6	13343.5	12891.0	12450.3	11891.5	11564.9	11553.1
7.5°	12879.2	13441.9	13618.9	13752.7	13276.6	12489.6	11734.1	10895.9	10691.3	10707.1
10°	12048.9	12946.1	13382.8	13520.6	12973.6	12292.9	11246.2	10396.2	9959.4	9951.6
12.5°	11588.5	12292.9	12414.8	12607.7	12446.3	11757.7	10962.8	10010.6	9585.6	9577.7
15°	11179.3	11643.6	11679.0	11950.5	12037.1	11572.8	11037.6	10022.4	9680.0	9644.6
17.5°	11537.3	11214.7	11080.9	11116.3	11372.1	11541.3	11470.5	10691.3	10341.1	10144.4
20°	11777.4	11057.3	10652.0	10691.3	10994.3	11612.1	12115.8	11659.3	11104.5	11128.1
22.5°	12418.8	11080.9	10447.4	10404.1	10884.1	11982.0	12843.8	12883.1	12348.0	12218.1
25°	13378.9	11352.4	10384.4	10372.6	10833.0	12379.4	13693.7	14331.2	13784.2	13544.2
27.5°	14150.2	11777.4	10581.1	10620.5	10994.3	12702.1	14417.7	15263.8	14846.7	14551.5
30°	14827.0	12218.1	10856.6	10675.6	11427.2	12871.3	14728.6	16326.2	15991.7	15747.8
32.5°	15106.4	12843.8	11293.4	10994.3	11785.2	13075.9	15373.9	17357.2	17069.9	16467.9
35°	15578.6	13194.0	11529.5	11505.9	12410.9	13567.8	15676.9	18037.9	17919.9	17384.7
37.5°	15956.3	13548.1	12367.6	12107.9	13268.7	14394.1	16164.9	18978.4	18706.9	18455.0
40°	16247.5	14181.6	13150.7	13493.0	14323.3	15145.7	16613.5	19037.4	19820.5	19088.6
42.5°	15979.9	14748.3	14437.4	15255.9	16042.9	16003.5	16664.6	19493.9	20080.2	19698.5
45°	15913.0	15708.4	16471.8	17215.5	17396.5	16715.8	16298.7	18990.2	20001.5	19832.3
47.5°	15751.7	16652.8	17982.8	19194.8	18919.4	17191.9	15861.9	18899.7	20048.7	19745.7
50°	15696.6	16857.4	19100.4	20280.9	20115.6	17605.1	15657.3	18317.3	19714.2	19686.7
52.5°	15692.7	17278.5	19564.7	20871.1	20973.4	18258.3	15936.6	18612.4	19973.9	20206.1
55°	15869.8	17144.7	19505.7	20544.5	20505.2	17967.1	15968.1	18809.2	20292.7	20520.9
57.5°	14968.6	15358.2	16098.0	16920.4	16707.9	14882.1	14260.3	17388.7	18624.2	18459.0
60°	12926.4	11706.6	10872.3	10833.0	10419.8	9849.2	11671.1	15519.5	15519.5	15358.2
62.5°	11320.9	7685.0	6602.9	6296.0	6591.1	7248.2	11258.0	15094.6	14665.7	14480.7
65°	9900.4	5867.0	4773.1	4686.6	5198.1	6189.7	10179.8	12859.5	12104.0	11490.1
67.5°	6370.7	4297.0	3549.3	3395.9	4013.7	4544.9	6776.0	7909.3	7433.2	7193.1
70°	4108.1	2797.8	1975.4	1853.4	2093.4	2801.7	4328.5	4611.8	3919.2	3757.9
72.5°	1943.9	1208.0	692.6	570.6	641.4	1070.3	1711.7	1841.6	1530.7	1400.9
75°	617.8	444.7	283.3	244.0	232.2	275.4	393.5	303.0	220.4	216.4
77.5°	275.4	263.6	224.3	188.9	165.3	137.7	114.1	94.4	98.4	102.3
80°	228.2	208.6	184.9	165.3	137.7	106.2	82.6	63.0	63.0	66.9
82.5°	200.7	181.0	161.3	137.7	118.0	86.6	63.0	43.3	39.3	39.3
85°	86.6	102.3	110.2	118.0	94.4	70.8	43.3	27.5	23.6	23.6
87.5°	35.4	31.5	27.5	23.6	19.7	19.7	15.7	11.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)