

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: P532656

Luminaire Tested: **GALN-SA8A-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25620 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

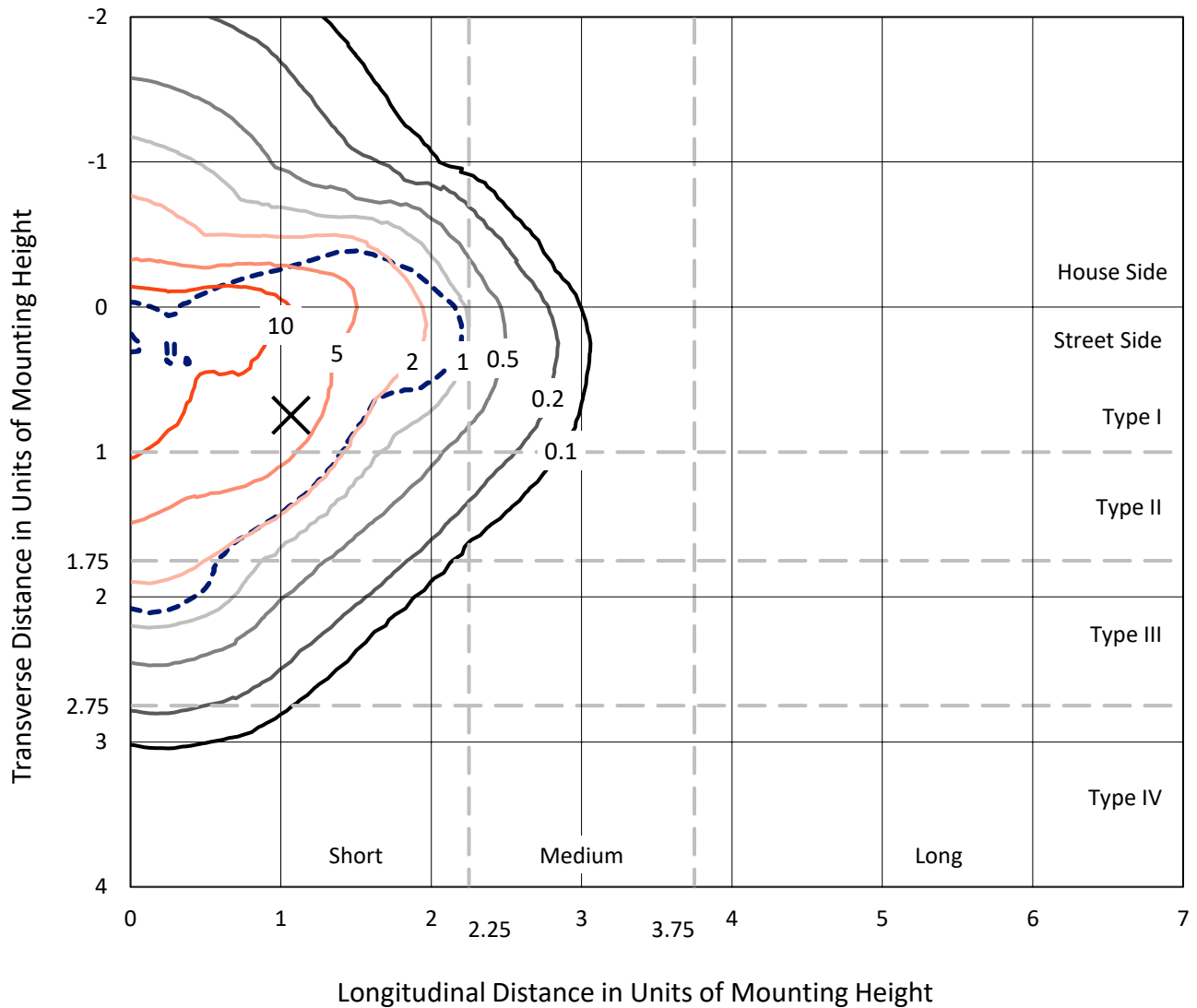
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

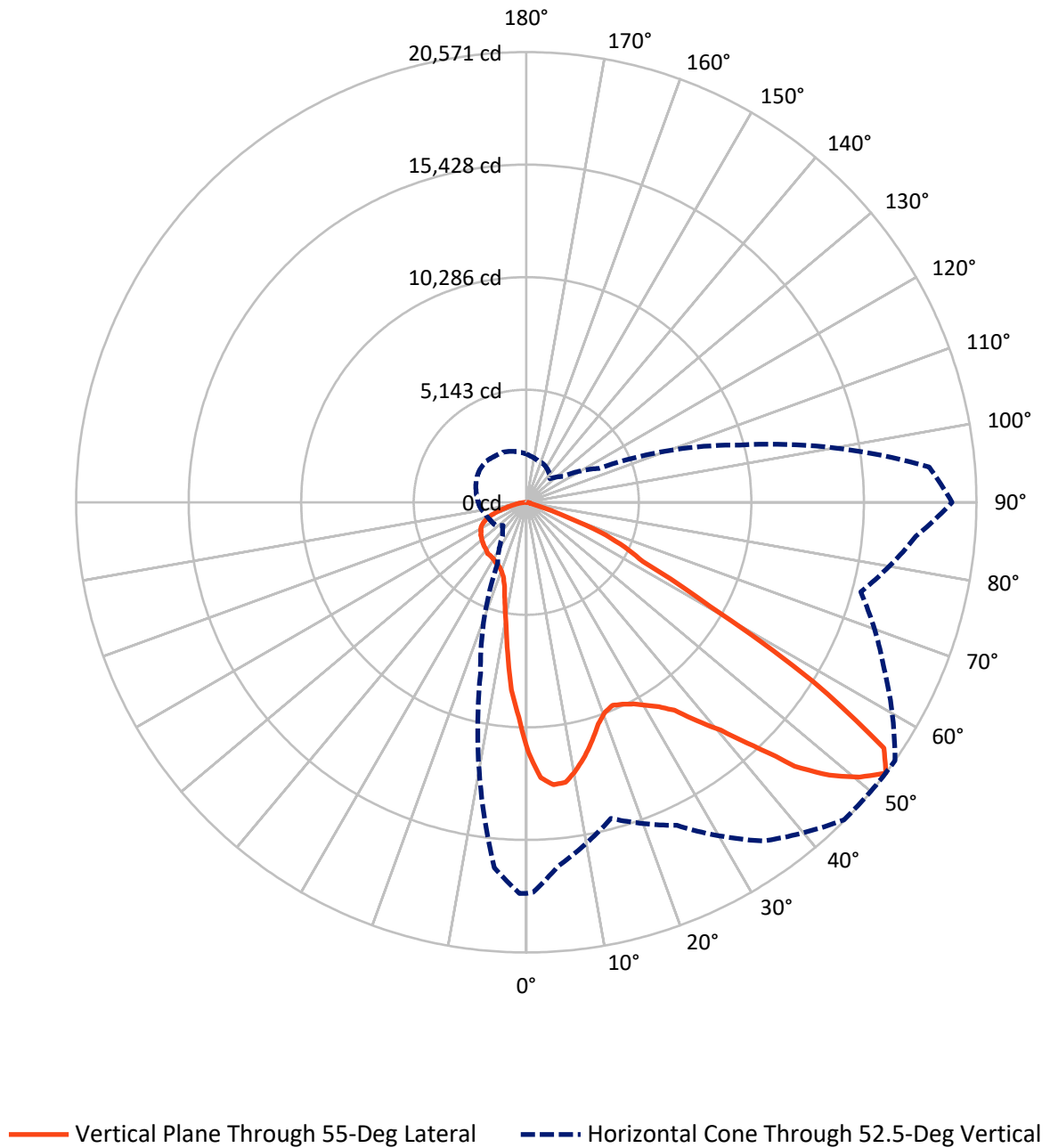
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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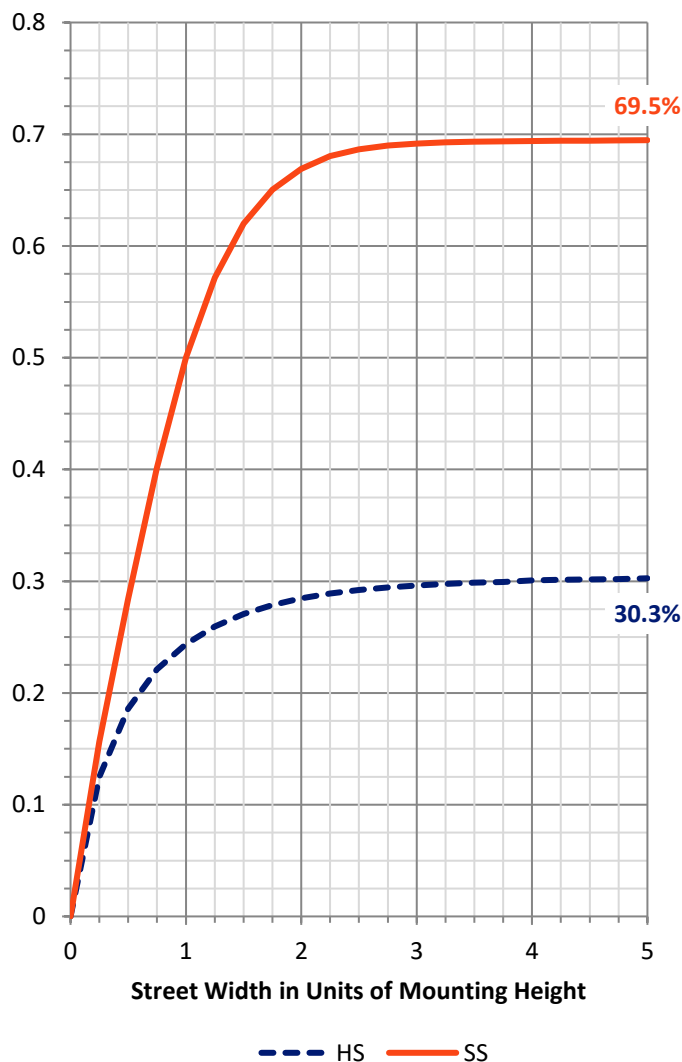
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7815.5	0.0	7815.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	17804.5	0.0	17804.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	25620.0	0.0	25620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.1	3.4
10°-20°	1882.6	7.3
20°-30°	2854.6	11.1
30°-40°	4124.4	16.1
40°-50°	5511.3	21.5
50°-60°	6151.9	24.0
60°-70°	3374.6	13.2
70°-80°	729.6	2.8
80°-90°	118.0	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°	25620.0	100.0
0°-180°	25620.0	100.0

Coefficient of Utilization



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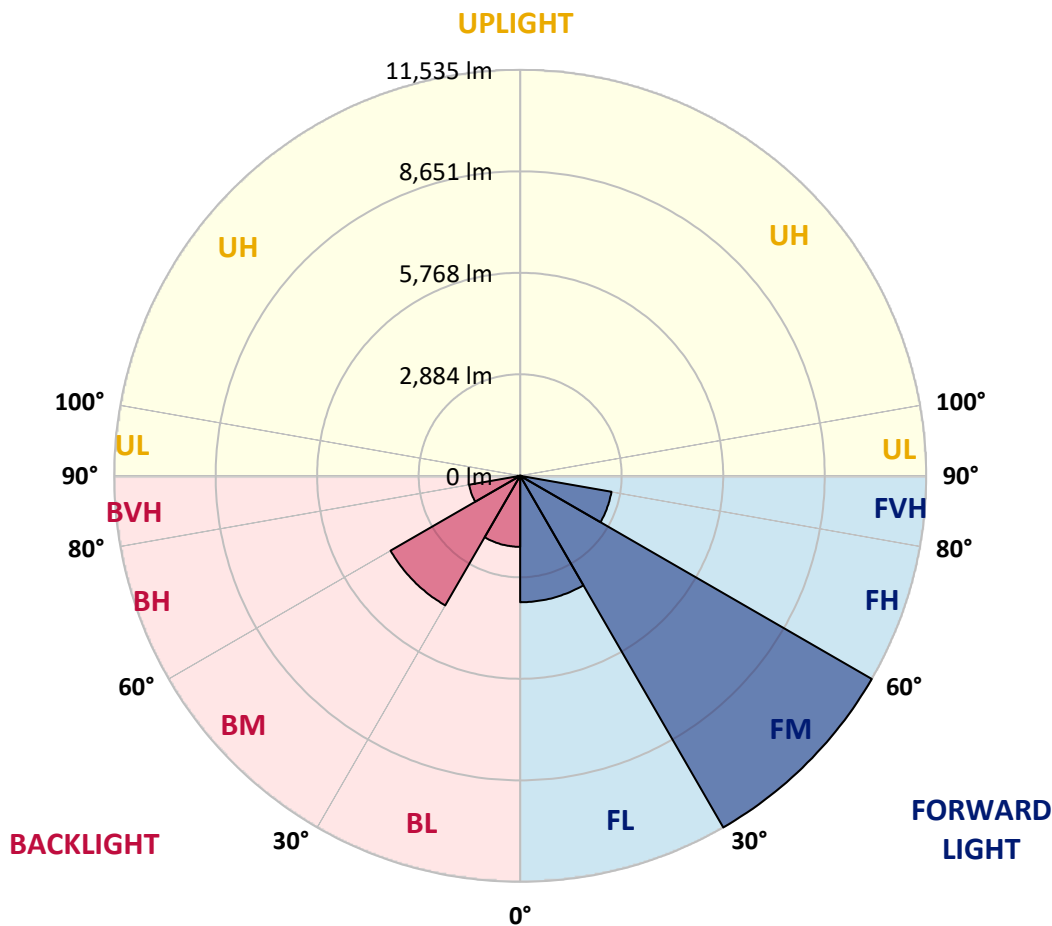
CATALOG NUMBER: GALN-SA8A-735-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3592.4	14.0			
FM (30°-60°)	11535.3	45.0			
FH (60°-80°)	2633.1	10.3			G2/5000
FVH (80°-90°)	43.7	0.2			G1/100
BL (0°-30°)	2017.8	7.9	B3/2500		
BM (30°-60°)	4252.3	16.6	B3/5000		
BH (60°-80°)	1471.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	74.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5
2.5°	11993.4	11926.0	11985.9	12270.2	12434.8	12547.0	12618.1	12606.9	12337.5	12075.7	12075.7
5°	11641.7	11555.7	11679.1	12322.6	12969.8	13025.9	13119.4	12966.0	12569.5	12090.6	11492.1
7.5°	10624.2	10687.8	10893.6	11739.0	12580.7	13003.4	13115.7	12921.1	12277.7	11383.6	10504.5
10°	9745.1	9894.7	10369.8	11282.6	12057.0	12606.9	12730.3	12457.3	11948.5	10852.4	10066.8
12.5°	9442.1	9348.6	9876.0	10788.8	11529.5	11825.0	11881.2	11899.9	11555.7	10583.1	9625.4
15°	9404.7	9464.5	9876.0	10568.1	11024.5	11039.4	11133.0	11278.9	11323.8	10766.4	9831.1
17.5°	9943.4	9872.3	10295.0	10844.9	10627.9	10411.0	10433.4	10642.9	11013.3	10923.5	10478.3
20°	10740.2	10901.0	11234.0	11177.9	10594.3	10044.4	10048.1	10246.4	10975.9	11574.4	11379.9
22.5°	12064.5	12221.6	12468.5	11791.4	10594.3	9935.9	9808.7	10078.0	11215.3	12348.8	12397.4
25°	13272.8	13560.8	13628.2	12831.3	11125.5	10036.9	9954.6	10220.2	11454.7	13104.4	13564.6
27.5°	14372.6	14477.3	14772.9	13501.0	11421.0	10104.2	10096.7	10437.2	11757.7	13482.3	14608.3
30°	15240.5	15229.3	15397.6	13923.7	11892.4	10482.0	10119.2	10762.6	12154.2	14107.0	15573.4
32.5°	15831.6	15958.8	16314.1	14511.0	12090.6	10841.2	10556.9	11144.2	12636.8	14402.5	16254.3
35°	16871.5	17092.3	16643.3	14836.5	12719.1	11196.6	10863.6	11664.2	12876.2	14724.2	17088.5
37.5°	17851.7	17683.3	17226.9	15012.3	13126.9	11855.0	11544.5	12670.5	13620.7	15423.8	17642.2
40°	18480.1	18476.4	17664.6	15154.5	13414.9	12861.3	12842.6	13691.8	14533.5	15865.2	18263.2
42.5°	18753.2	19015.1	17844.2	15139.5	14021.0	14080.8	14458.6	15218.1	15180.6	15955.0	18248.2
44°	19127.3	19284.4	18154.7	15173.2	14425.0	14903.8	15794.2	16276.7	15745.5	15906.4	18229.5
45°	19112.3	19123.6	17713.2	15218.1	14769.1	15592.1	16389.0	17204.5	16243.1	15801.6	18476.4
47.5°	18674.7	18547.5	17339.2	14885.1	15842.8	17410.2	18147.2	18641.0	16856.6	15577.2	18169.6
50°	17810.5	17664.6	16430.1	14743.0	16067.2	18540.0	19557.5	19737.1	17414.0	15356.5	17866.6
52.5°	17870.4	17829.2	16688.2	14956.2	16291.7	18895.4	20526.4	20571.3	18046.2	15820.3	17870.4
55°	18940.3	18798.1	17428.9	15221.8	16127.1	18480.1	19909.2	19830.6	17833.0	15539.8	18199.6
57.5°	17331.7	17425.2	16403.9	14170.6	14114.5	15023.5	15652.0	15457.5	14881.4	14024.7	16931.4
60°	13983.5	14249.2	14346.4	11851.2	10650.4	10182.8	9995.7	9651.6	9748.8	11522.0	14873.9
62.5°	11993.4	11978.4	12588.2	10743.9	6976.8	6000.4	5910.6	5989.2	7111.5	11342.5	14567.1
65°	9509.4	9763.8	9950.8	9105.4	5521.6	4455.4	4451.7	4949.2	6153.8	9479.5	11761.4
67.5°	6037.8	6370.8	6602.7	5824.6	3692.3	3172.3	3086.3	3684.8	4264.6	6217.4	7081.6
70°	3404.2	3561.4	3666.1	3359.3	2349.3	1646.0	1548.7	1690.9	2577.5	4025.2	4197.3
72.5°	1313.1	1384.1	1526.3	1537.5	886.6	531.2	430.2	516.2	1084.9	1593.6	1518.8
75°	202.0	217.0	306.8	366.6	254.4	194.5	205.8	213.2	303.0	411.5	344.2
77.5°	97.3	97.3	93.5	108.5	127.2	138.4	149.6	164.6	179.6	198.3	190.8
80°	63.6	63.6	63.6	74.8	93.5	112.2	127.2	134.7	142.2	157.1	149.6
82.5°	41.2	41.2	41.2	56.1	74.8	93.5	101.0	119.7	134.7	157.1	145.9
85°	22.4	22.4	22.4	37.4	56.1	78.6	74.8	59.9	33.7	3.7	7.5
87.5°	7.5	7.5	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5
2.5°	11761.4	11589.4	11574.4	11222.8	10908.5	10755.1	10631.7	10287.5	10362.3	10164.1	10160.3
5°	11192.8	10841.2	10272.6	9804.9	9337.3	9243.8	8836.0	8480.7	8491.9	8237.5	8282.4
7.5°	10171.6	9928.4	9236.3	8503.1	7882.1	7440.7	7055.4	6823.4	6527.9	6426.9	6374.5
10°	9524.4	9225.1	8447.0	7526.7	6830.9	6595.2	6224.9	6019.1	5716.1	5566.5	5461.7
12.5°	9240.1	8802.4	7829.7	6894.5	6430.6	6187.5	5873.2	5499.1	5140.0	5001.6	4810.8
15°	9270.0	8746.3	7650.2	6640.1	6082.7	5611.4	5330.8	4915.6	4549.0	4305.8	4167.4
17.5°	9722.6	9086.7	7732.5	6445.6	5645.0	5054.0	4504.1	4055.2	3763.4	3580.1	3535.2
20°	10792.5	9928.4	7870.9	6131.4	5207.4	4470.4	3793.3	3325.7	3101.2	3097.5	3101.2
22.5°	11682.9	10826.2	8151.5	5944.3	4769.7	3722.2	3048.8	2899.2	2854.3	2947.8	2959.1
25°	12883.7	11836.3	8634.0	5847.1	4365.7	3172.3	2757.1	2700.9	2697.2	2816.9	2820.7
27.5°	14114.5	12719.1	8922.1	5562.7	3954.1	2888.0	2581.2	2570.0	2629.9	2757.1	2745.8
30°	14952.4	13459.8	9442.1	5222.3	3467.8	2637.3	2510.2	2525.1	2607.4	2704.7	2719.6
32.5°	15928.8	14189.3	9576.7	5035.3	3168.6	2427.9	2338.1	2371.7	2476.5	2629.9	2712.2
35°	17047.4	14705.5	9782.5	4780.9	3056.3	2267.0	2222.1	2259.5	2386.7	2487.7	2577.5
37.5°	17874.1	15618.3	9819.9	4582.6	2932.9	2177.2	2106.1	2229.6	2304.4	2446.6	2491.5
40°	18487.6	16280.5	9917.2	4459.2	2835.6	2061.2	2061.2	2143.5	2244.6	2375.5	2465.3
42.5°	18880.4	16763.0	9988.2	4346.9	2648.6	2027.6	2008.9	2091.2	2225.8	2353.0	2394.2
44°	19119.8	16968.8	9917.2	4242.2	2596.2	1986.4	1986.4	2057.5	2162.3	2311.9	2360.5
45°	19179.7	17226.9	9760.1	4238.5	2532.6	1937.8	1930.3	2065.0	2136.1	2319.4	2349.3
47.5°	19411.6	17544.9	9778.8	4118.7	2379.2	1821.8	1952.8	2012.6	2076.2	2237.1	2338.1
50°	19404.1	17743.2	9737.6	3942.9	2267.0	1690.9	1907.9	1975.2	2038.8	2203.4	2244.6
52.5°	19456.5	18483.9	10115.4	3662.4	2065.0	1522.6	1758.2	1907.9	1986.4	2124.8	2210.9
55°	19430.3	18906.6	10489.5	3452.9	1780.7	1421.5	1631.0	1806.9	1919.1	2065.0	2106.1
57.5°	17746.9	16710.7	9707.7	3060.1	1473.9	1301.8	1451.5	1702.1	1844.3	1993.9	2046.3
60°	14499.8	12880.0	8005.6	2252.0	1212.1	1197.1	1350.5	1668.4	1728.3	1859.2	1949.0
62.5°	13400.0	11297.6	6348.3	1720.8	1036.2	1096.1	1245.7	1507.6	1601.1	1762.0	1844.3
65°	10485.8	7504.3	3931.7	1163.4	912.8	983.9	1126.0	1320.5	1473.9	1623.6	1720.8
67.5°	6209.9	4100.0	1945.3	815.5	796.8	871.6	1017.5	1163.4	1339.2	1503.8	1552.5
70°	3381.8	2016.4	830.5	621.0	677.1	744.4	886.6	987.6	1155.9	1283.1	1365.4
72.5°	1084.9	613.5	415.2	460.1	516.2	594.8	680.8	804.3	924.0	998.8	1066.2
75°	261.9	258.1	295.5	321.7	374.1	433.9	505.0	568.6	662.1	733.2	793.1
77.5°	183.3	198.3	228.2	265.6	284.3	306.8	351.6	400.3	441.4	493.8	531.2
80°	142.2	153.4	175.8	194.5	213.2	231.9	254.4	273.1	299.3	332.9	351.6
82.5°	134.7	142.2	164.6	175.8	168.3	164.6	179.6	187.0	190.8	202.0	213.2
85°	11.2	0.0	7.5	26.2	63.6	93.5	101.0	101.0	97.3	104.7	104.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	15.0	11.2
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°	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5
2.5°	10115.4	9988.2	10036.9	10096.7	10010.7	9812.4	9864.8	9842.4	10044.4	10029.4	10231.4
5°	8480.7	8282.4	8304.8	8596.6	8503.1	8604.1	8402.1	8375.9	8413.3	8432.0	8465.7
7.5°	6490.5	6464.3	6688.8	6935.7	7051.6	6931.9	6733.7	6688.8	6647.6	6565.3	6752.4
10°	5297.1	5304.6	5289.7	5476.7	5607.6	5581.4	5461.7	5446.8	5368.2	5338.3	5443.0
12.5°	4728.5	4627.5	4578.9	4519.0	4620.0	4687.4	4635.0	4597.6	4601.3	4638.7	4653.7
15°	4178.6	4115.0	4010.3	3942.9	3991.6	3957.9	3939.2	4014.0	3995.3	3987.8	4077.6
17.5°	3561.4	3613.7	3606.2	3531.4	3595.0	3568.8	3565.1	3512.7	3441.6	3389.3	3419.2
20°	3153.6	3250.9	3325.7	3329.4	3363.1	3359.3	3303.2	3142.4	3090.0	3078.8	3086.3
22.5°	3007.7	3060.1	3149.9	3277.0	3277.0	3217.2	3149.9	2962.8	2914.2	2861.8	2839.4
25°	2891.7	2992.7	3108.7	3123.7	3183.5	3127.4	3018.9	2925.4	2824.4	2753.3	2753.3
27.5°	2831.9	2944.1	3030.1	3056.3	3138.6	3093.7	2981.5	2861.8	2742.1	2738.4	2674.8
30°	2805.7	2910.4	2966.5	3030.1	3067.6	2996.5	2962.8	2835.6	2715.9	2686.0	2581.2
32.5°	2727.1	2876.8	2981.5	2966.5	2996.5	2966.5	2917.9	2813.2	2678.5	2611.2	2599.9
35°	2637.3	2787.0	2899.2	2977.8	2996.5	2932.9	2903.0	2760.8	2577.5	2543.8	2427.9
37.5°	2588.7	2678.5	2816.9	2944.1	2970.3	2936.6	2835.6	2689.7	2506.4	2469.0	2368.0
40°	2528.9	2644.8	2753.3	2858.1	2936.6	2854.3	2738.4	2596.2	2513.9	2401.7	2371.7
42.5°	2484.0	2614.9	2704.7	2820.7	2910.4	2801.9	2667.3	2570.0	2454.0	2379.2	2293.2
44°	2469.0	2588.7	2648.6	2790.7	2865.5	2783.2	2671.0	2570.0	2435.3	2368.0	2293.2
45°	2416.6	2581.2	2644.8	2772.0	2835.6	2768.3	2626.1	2525.1	2427.9	2345.6	2267.0
47.5°	2364.3	2476.5	2585.0	2686.0	2730.9	2708.4	2588.7	2465.3	2349.3	2300.7	2225.8
50°	2349.3	2461.5	2562.5	2656.1	2708.4	2663.5	2555.0	2435.3	2300.7	2222.1	2158.5
52.5°	2274.5	2412.9	2525.1	2555.0	2622.4	2596.2	2513.9	2383.0	2255.8	2188.4	2136.1
55°	2166.0	2311.9	2465.3	2502.7	2599.9	2558.8	2435.3	2311.9	2203.4	2102.4	2035.1
57.5°	2124.8	2267.0	2416.6	2465.3	2525.1	2457.8	2427.9	2296.9	2124.8	2072.5	1967.7
60°	2020.1	2199.7	2323.1	2435.3	2439.1	2420.4	2368.0	2218.4	2076.2	1978.9	1904.1
62.5°	1937.8	2106.1	2203.4	2308.1	2371.7	2319.4	2267.0	2128.6	1975.2	1866.7	1780.7
65°	1818.1	1971.5	2053.8	2117.4	2188.4	2181.0	2091.2	1990.2	1829.3	1743.3	1661.0
67.5°	1634.8	1769.5	1881.7	1941.5	1986.4	1975.2	1907.9	1836.8	1672.2	1586.1	1526.3
70°	1414.1	1552.5	1623.6	1657.2	1702.1	1724.6	1672.2	1638.5	1492.6	1380.4	1324.3
72.5°	1137.2	1227.0	1331.8	1361.7	1380.4	1395.4	1395.4	1365.4	1215.8	1170.9	1073.6
75°	838.0	909.0	987.6	987.6	1021.3	1025.0	1032.5	1013.8	901.6	841.7	819.3
77.5°	568.6	621.0	684.6	710.8	733.2	729.5	725.7	673.4	613.5	587.3	564.9
80°	370.4	422.7	452.7	486.3	508.8	505.0	512.5	475.1	448.9	404.0	411.5
82.5°	220.7	261.9	291.8	332.9	332.9	344.2	344.2	332.9	306.8	284.3	284.3
85°	104.7	138.4	157.1	183.3	198.3	202.0	179.6	153.4	127.2	116.0	127.2
87.5°	18.7	26.2	37.4	33.7	41.2	37.4	37.4	37.4	37.4	29.9	33.7
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°	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5	11428.5
2.5°	10156.6	10343.6	10474.6	10691.5	11065.6	11364.9	11671.7	11899.9	11926.0	11993.4
5°	8589.1	8690.2	9023.1	9457.0	9763.8	10268.8	10594.3	11185.3	11406.1	11641.7
7.5°	6707.5	6872.1	7317.2	7609.0	8282.4	8914.6	9569.3	10298.7	10590.5	10624.2
10°	5656.3	5895.7	6198.7	6666.3	7032.9	7736.2	8551.7	9363.5	9689.0	9745.1
12.5°	4967.9	5274.7	5678.7	6015.4	6367.0	6980.6	7762.4	8765.0	9187.7	9442.1
15°	4305.8	4623.8	5068.9	5536.6	5847.1	6580.3	7500.5	8630.3	9180.2	9404.7
17.5°	3624.9	3920.5	4287.1	4792.1	5416.8	6239.8	7459.4	9079.2	9681.5	9943.4
20°	3041.4	3206.0	3632.4	4152.4	4934.3	5891.9	7474.4	9741.3	10624.2	10740.2
22.5°	2813.2	2850.6	3018.9	3497.8	4354.4	5536.6	7740.0	10680.3	11682.9	12064.5
25°	2637.3	2629.9	2674.8	2996.5	3931.7	5398.1	8001.8	11544.5	12857.5	13272.8
27.5°	2540.1	2465.3	2469.0	2772.0	3632.4	5173.7	8338.5	12535.8	14189.3	14372.6
30°	2491.5	2476.5	2431.6	2555.0	3307.0	4837.0	8394.6	13512.2	14974.9	15240.5
32.5°	2461.5	2315.6	2259.5	2304.4	3000.2	4470.4	8604.1	14155.6	15947.5	15831.6
35°	2311.9	2181.0	2143.5	2188.4	2783.2	4264.6	8465.7	14716.8	16677.0	16871.5
37.5°	2255.8	2139.8	2065.0	2027.6	2581.2	4092.6	8394.6	15580.9	17384.0	17851.7
40°	2203.4	2079.9	1990.2	1952.8	2424.1	3864.4	8372.2	16246.8	18199.6	18480.1
42.5°	2143.5	2065.0	1964.0	1896.6	2233.3	3636.2	8114.0	16452.6	18450.2	18753.2
44°	2124.8	2005.1	1900.4	1877.9	2158.5	3520.2	8061.7	16639.6	18667.2	19127.3
45°	2106.1	1993.9	1874.2	1844.3	2132.3	3456.6	7990.6	16684.5	19026.3	19112.3
47.5°	2053.8	1982.7	1866.7	1784.4	2076.2	3318.2	7777.4	16430.1	18659.7	18674.7
50°	2012.6	1930.3	1810.6	1649.7	2001.4	3202.2	7874.6	16336.6	17776.8	17810.5
52.5°	1967.7	1844.3	1776.9	1500.1	1877.9	3105.0	8080.4	16759.3	17877.8	17870.4
55°	1915.3	1780.7	1616.1	1372.9	1672.2	2981.5	8577.9	17593.5	18813.1	18940.3
57.5°	1833.0	1717.1	1481.4	1260.7	1436.5	2745.8	8417.1	15996.2	17309.2	17331.7
60°	1724.6	1616.1	1343.0	1174.6	1178.4	2166.0	7526.7	12464.7	13658.1	13983.5
62.5°	1619.8	1560.0	1227.0	1051.2	1002.6	1724.6	6363.3	10358.6	11724.0	11993.4
65°	1496.4	1350.5	1126.0	957.7	860.4	1208.3	4507.8	7740.0	9146.5	9509.4
67.5°	1339.2	1182.1	991.3	841.7	737.0	808.0	2326.9	4399.3	5824.6	6037.8
70°	1170.9	1025.0	834.2	710.8	594.8	557.4	1025.0	2098.7	3183.5	3404.2
72.5°	961.4	826.7	665.9	561.1	445.2	385.3	344.2	561.1	1129.8	1313.1
75°	695.8	602.3	501.3	400.3	314.2	246.9	202.0	168.3	187.0	202.0
77.5°	512.5	437.7	370.4	284.3	220.7	175.8	138.4	104.7	101.0	97.3
80°	400.3	355.4	295.5	228.2	172.1	130.9	97.3	71.1	63.6	63.6
82.5°	314.2	291.8	243.2	187.0	142.2	104.7	71.1	48.6	41.2	41.2
85°	119.7	119.7	175.8	153.4	108.5	74.8	48.6	26.2	22.4	22.4
87.5°	29.9	29.9	29.9	29.9	26.2	22.4	22.4	11.2	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)