

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: P531488

Luminaire Tested: **GALN-SA6D-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531488
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 31826 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

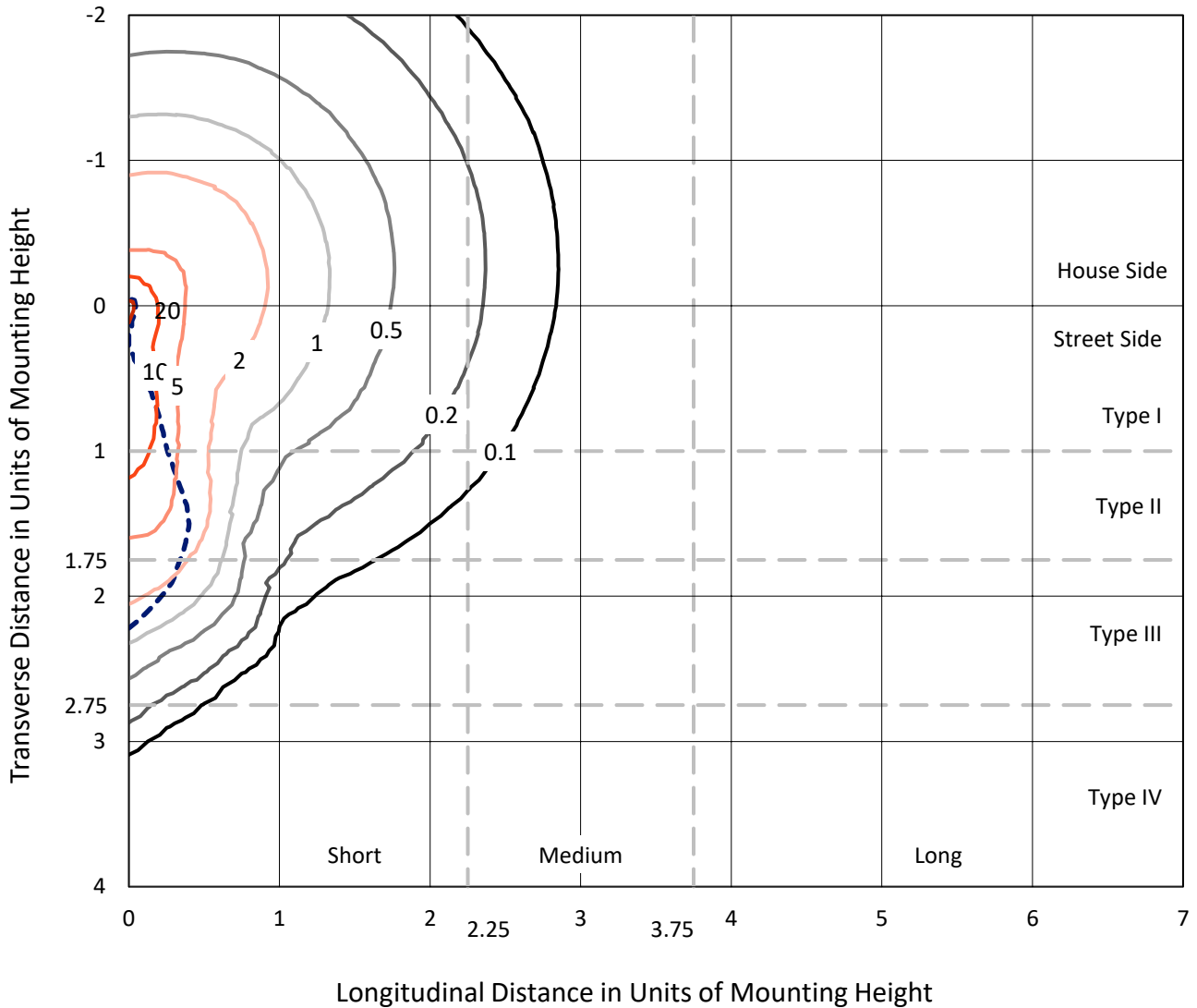
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

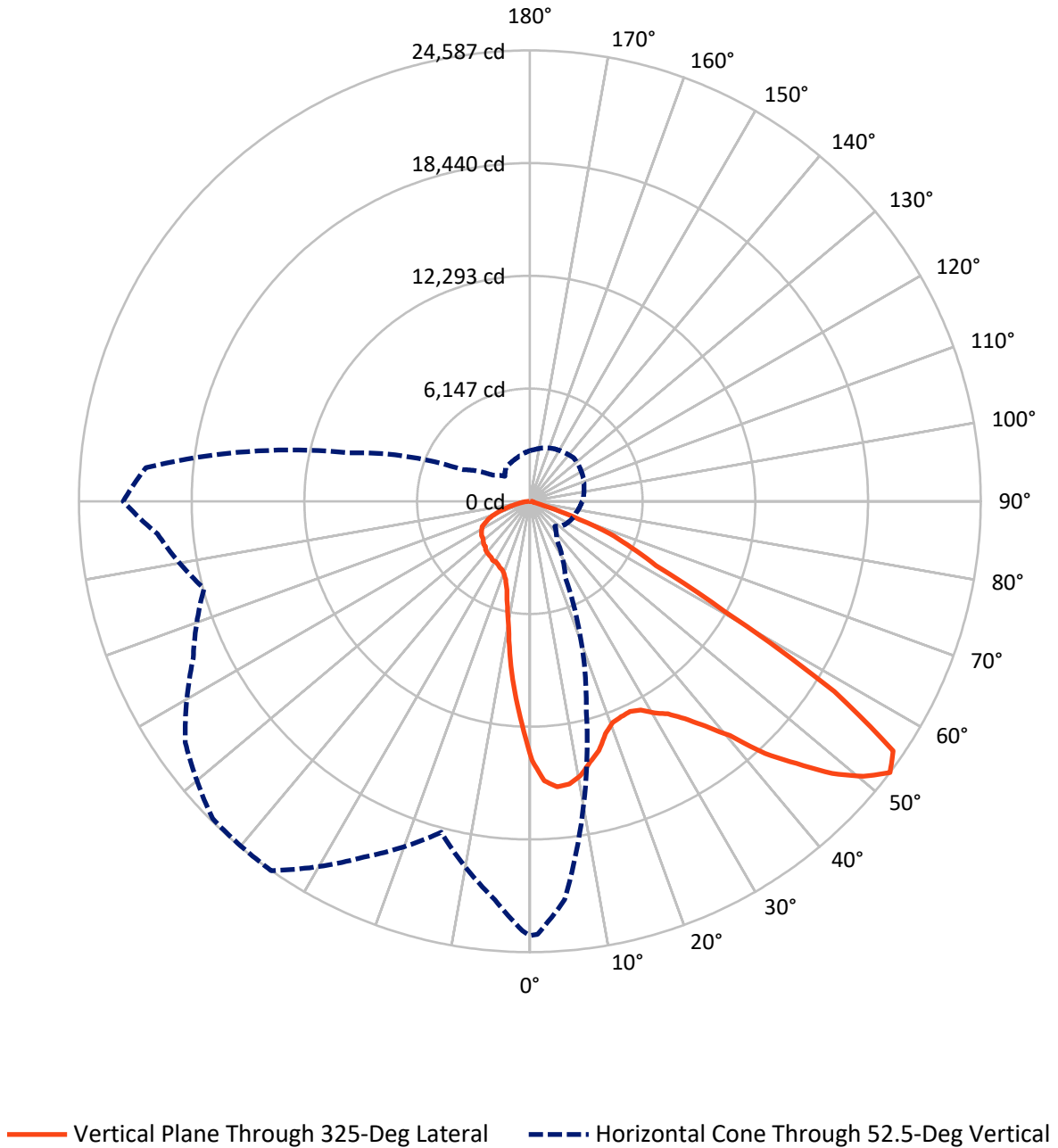
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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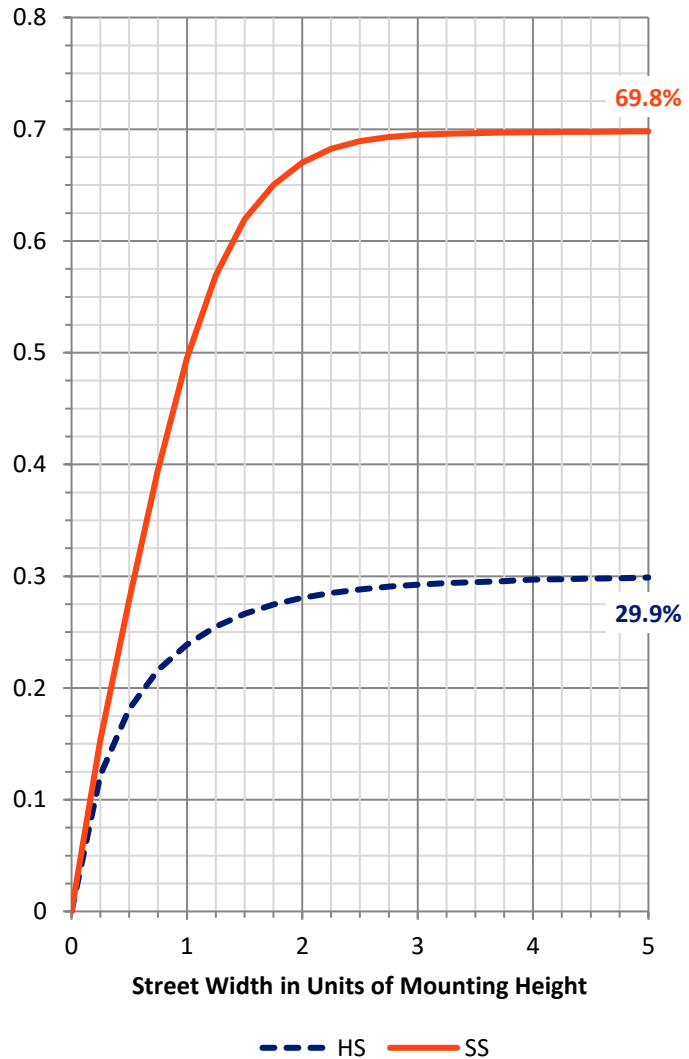
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9594.2	0.0	9594.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	22231.8	0.0	22231.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	31826.0	0.0	31826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.6	3.4
10°-20°	2336.0	7.3
20°-30°	3529.6	11.1
30°-40°	5100.4	16.0
40°-50°	6787.7	21.3
50°-60°	7592.2	23.9
60°-70°	4278.9	13.4
70°-80°	953.8	3.0
80°-90°	169.8	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°	31826.0	100.0
0°-180°	31826.0	100.0



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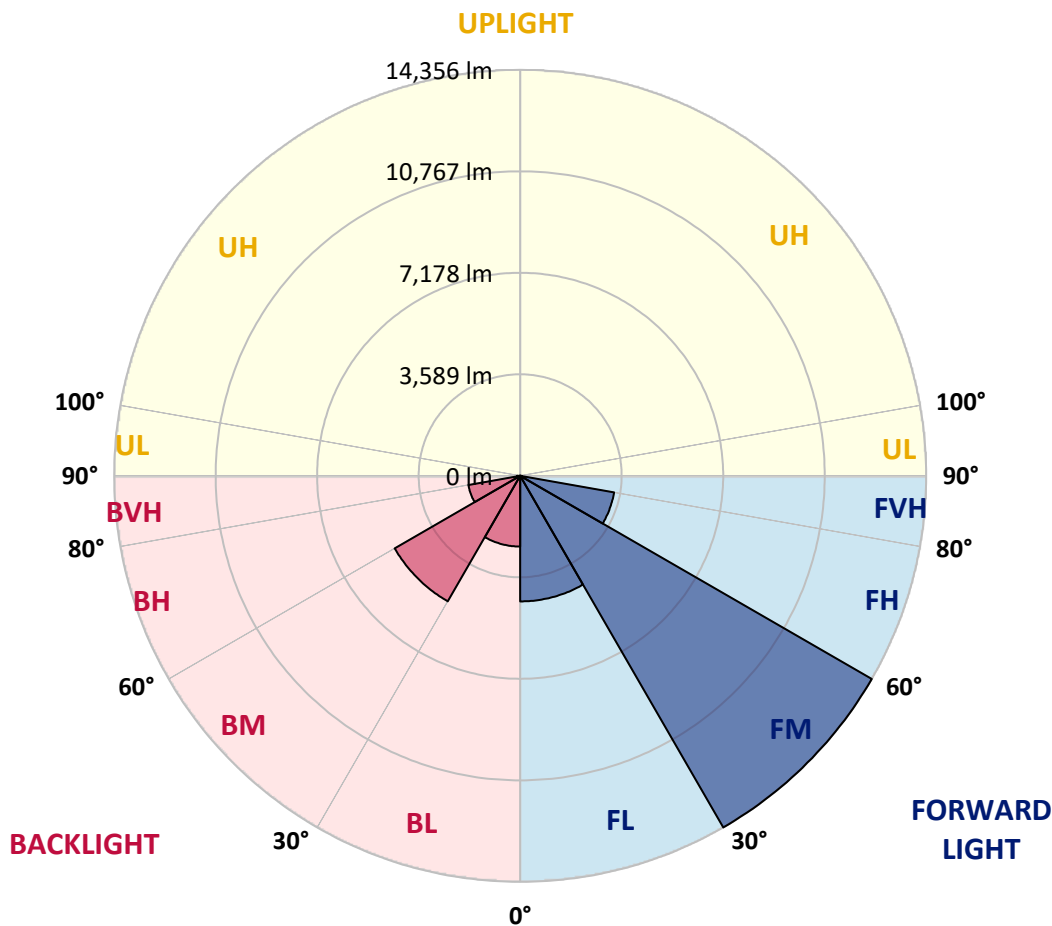
CATALOG NUMBER: GALN-SA6D-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4441.2	14.0			
FM (30°-60°)	14356.0	45.1			
FH (60°-80°)	3373.1	10.6			G2/5000
FVH (80°-90°)	61.5	0.2			G1/100
BL (0°-30°)	2501.9	7.9	B4/5000		
BM (30°-60°)	5124.3	16.1	B4/8500		
BH (60°-80°)	1859.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	108.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6
2.5°	14359.8	14590.5	14341.4	13898.5	13584.9	13298.9	12999.0	12939.1	12547.0	12477.8	12191.8
5°	13543.4	13492.6	13188.2	12606.9	11965.8	11384.5	10955.5	10540.4	10259.0	9931.5	9908.4
7.5°	12551.6	12256.4	12081.1	11200.0	10406.6	9493.3	9101.2	8469.2	8270.9	7975.6	7823.4
10°	11665.9	11449.1	11038.6	10157.5	9050.4	8446.1	8026.4	7685.0	7454.4	7149.9	6767.1
12.5°	11227.7	11140.1	10678.8	9313.4	8492.3	7846.5	7551.3	7219.1	6827.0	6338.1	6148.9
15°	11306.1	11010.9	10660.3	9151.9	8017.1	7394.4	6923.9	6508.7	6005.9	5540.0	5267.9
17.5°	11892.0	11665.9	10964.8	9253.4	7837.2	6937.7	6084.4	5470.9	5018.8	4599.0	4409.9
20°	13045.2	12717.7	11928.9	9382.6	7449.8	6301.2	5323.2	4566.7	4082.4	3861.0	3796.4
22.5°	14322.9	14129.2	12869.9	9673.2	7140.7	5710.7	4516.0	3759.5	3579.6	3519.6	3639.5
25°	15877.5	15374.7	14332.2	10148.3	6900.8	5207.9	3833.3	3413.5	3321.3	3381.2	3519.6
27.5°	17058.4	16924.6	15356.2	10595.7	6573.3	4603.6	3450.4	3173.6	3201.3	3261.3	3390.5
30°	18460.7	17782.6	16348.0	10904.8	6278.1	4188.5	3182.9	3109.1	3136.7	3238.2	3302.8
32.5°	19304.8	19051.1	16970.7	11370.7	5936.7	3828.7	2975.3	2906.1	2947.6	3099.8	3252.1
35°	20379.6	19876.8	17741.1	11490.6	5696.9	3685.7	2827.7	2776.9	2873.8	2979.9	3150.6
37.5°	21634.3	21288.3	18806.6	11407.6	5567.7	3538.1	2703.1	2680.1	2749.3	2896.9	3095.2
40°	22377.0	22270.9	19364.8	11458.3	5364.8	3408.9	2560.1	2587.8	2730.8	2846.1	3039.9
42.5°	23092.0	22400.0	20190.5	11439.9	5235.6	3233.6	2574.0	2541.7	2652.4	2786.2	2970.7
45°	23248.8	22561.5	20384.2	11310.7	5078.8	3062.9	2467.9	2481.7	2615.5	2781.6	2901.5
47.5°	23147.3	22639.9	20744.0	11273.8	4931.1	2943.0	2311.0	2477.1	2555.5	2689.3	2860.0
50°	23078.1	23050.5	21048.5	11449.1	4732.8	2753.9	2121.9	2417.1	2495.6	2629.3	2813.8
52.5°	23687.0	23627.1	21809.6	11910.4	4576.0	2550.9	1928.2	2264.9	2454.0	2583.2	2763.1
55°	24056.1	23793.1	23115.0	12477.8	4313.0	2283.4	1794.4	2075.8	2352.6	2467.9	2652.4
57.5°	21638.9	21459.0	20910.1	11647.5	3870.2	1932.8	1628.3	1882.0	2214.2	2394.1	2583.2
60°	18004.0	17722.6	16315.7	9899.2	2855.4	1503.8	1526.9	1729.8	2177.3	2246.5	2467.9
62.5°	16975.3	16278.8	14364.4	7966.4	2191.1	1291.6	1370.0	1591.4	1983.5	2098.9	2320.3
65°	13469.5	12952.9	10277.4	5752.2	1466.9	1120.9	1250.1	1434.6	1711.4	1937.4	2140.4
67.5°	8432.3	7938.7	5484.7	2721.6	1024.1	959.5	1116.3	1310.1	1536.1	1739.0	1965.1
70°	4405.3	3865.6	2532.5	982.5	705.8	784.2	931.8	1116.3	1337.7	1503.8	1679.1
72.5°	1642.2	1333.1	825.7	424.4	489.0	599.7	756.5	890.3	1047.1	1250.1	1347.0
75°	253.7	216.8	212.2	258.3	332.1	433.6	539.7	673.5	811.9	941.0	1005.6
77.5°	119.9	115.3	129.2	170.7	221.4	309.1	392.1	521.3	632.0	715.0	751.9
80°	78.4	73.8	83.0	115.3	166.1	230.6	313.7	401.3	502.8	572.0	562.8
82.5°	46.1	50.7	50.7	78.4	115.3	166.1	226.0	304.4	373.6	433.6	396.7
85°	27.7	23.1	23.1	46.1	78.4	133.8	189.1	129.2	133.8	133.8	152.2
87.5°	9.2	9.2	9.2	4.6	9.2	9.2	13.8	23.1	27.7	32.3	41.5
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°	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6
2.5°	12182.6	12325.6	12274.8	12094.9	12233.3	12256.4	12164.1	12482.4	12542.4	12445.5	12473.2
5°	9876.1	9913.0	9996.1	10171.4	10295.9	10443.5	10443.5	10452.7	10328.2	10641.9	10549.6
7.5°	7694.2	7717.3	7814.2	8187.8	8293.9	8575.3	8695.2	8612.2	8363.1	8257.0	8344.7
10°	6642.5	6508.7	6476.5	6522.6	6762.5	6882.4	6983.9	6956.2	6914.7	6831.6	6739.4
12.5°	5941.4	5844.5	5766.1	5655.4	5669.2	5784.5	5862.9	5798.4	5816.8	5835.3	5862.9
15°	5180.2	5111.0	5069.5	4903.5	4885.0	4963.4	4991.1	5028.0	5097.2	5101.8	5069.5
17.5°	4373.0	4313.0	4405.3	4497.5	4433.0	4437.6	4488.3	4520.6	4502.2	4419.1	4377.6
20°	3819.4	3884.0	3976.3	4063.9	4133.1	4174.6	4193.1	4142.3	4082.4	3911.7	3907.1
22.5°	3658.0	3741.0	3819.4	3953.2	4017.8	4123.9	4027.0	3911.7	3828.7	3745.6	3648.8
25°	3538.1	3607.3	3764.1	3814.8	3939.4	4027.0	3957.8	3842.5	3699.5	3579.6	3505.8
27.5°	3450.4	3528.8	3630.3	3768.7	3865.6	3916.3	3847.1	3801.0	3653.4	3510.4	3404.3
30°	3395.1	3478.1	3662.6	3777.9	3861.0	3902.5	3782.5	3727.2	3621.1	3501.2	3408.9
32.5°	3358.2	3432.0	3588.8	3736.4	3791.8	3791.8	3810.2	3745.6	3598.0	3395.1	3316.6
35°	3238.2	3339.7	3468.9	3639.5	3741.0	3801.0	3708.7	3634.9	3538.1	3330.5	3187.5
37.5°	3169.0	3238.2	3404.3	3565.7	3653.4	3718.0	3681.1	3551.9	3422.7	3252.1	3136.7
40°	3095.2	3205.9	3353.5	3505.8	3602.6	3667.2	3639.5	3487.3	3330.5	3169.0	3090.6
42.5°	3044.5	3118.3	3270.5	3441.2	3556.5	3681.1	3598.0	3408.9	3298.2	3076.8	2989.1
45°	3003.0	3122.9	3284.4	3353.5	3473.5	3602.6	3455.0	3339.7	3210.5	3049.1	2975.3
47.5°	2952.2	3062.9	3169.0	3353.5	3408.9	3468.9	3441.2	3256.7	3146.0	2970.7	2919.9
50°	2933.8	2975.3	3169.0	3270.5	3348.9	3408.9	3335.1	3196.7	3090.6	2910.7	2800.0
52.5°	2860.0	2938.4	3062.9	3196.7	3293.6	3367.4	3247.5	3159.8	3016.8	2827.7	2758.5
55°	2767.7	2813.8	3035.3	3173.6	3224.4	3275.1	3229.0	3086.0	2938.4	2744.7	2675.5
57.5°	2647.8	2753.9	2933.8	3127.5	3192.1	3219.8	3146.0	3030.6	2846.1	2675.5	2564.7
60°	2523.2	2633.9	2832.3	2989.1	3053.7	3155.2	3044.5	2975.3	2763.1	2574.0	2454.0
62.5°	2398.7	2523.2	2670.8	2869.2	2924.6	2966.1	2938.4	2841.5	2670.8	2458.7	2311.0
65°	2251.1	2343.3	2527.8	2629.3	2666.2	2763.1	2666.2	2629.3	2477.1	2274.1	2149.6
67.5°	2029.7	2108.1	2269.5	2366.4	2394.1	2435.6	2431.0	2389.5	2218.8	2080.4	1969.7
70°	1776.0	1845.1	1946.6	2061.9	2075.8	2126.5	2080.4	2071.2	1960.5	1771.3	1711.4
72.5°	1425.4	1490.0	1623.7	1674.5	1679.1	1697.5	1674.5	1642.2	1614.5	1416.1	1356.2
75°	1093.2	1130.2	1194.7	1240.9	1240.9	1263.9	1250.1	1217.8	1144.0	1019.4	959.5
77.5°	761.1	798.0	881.1	908.7	904.1	913.3	871.8	839.5	728.8	664.3	613.5
80°	553.5	576.6	618.1	636.6	641.2	655.0	604.3	576.6	512.0	438.2	415.2
82.5°	401.3	415.2	419.8	442.8	442.8	419.8	405.9	378.3	332.1	286.0	267.5
85°	166.1	170.7	175.3	203.0	207.6	249.1	230.6	216.8	189.1	161.5	147.6
87.5°	41.5	46.1	60.0	50.7	60.0	60.0	64.6	73.8	73.8	60.0	60.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6
2.5°	12579.3	12616.2	13086.7	13146.6	13377.3	13612.5	14087.7	14429.0	14705.8	14885.7	14936.4
5°	10646.5	10881.7	11098.5	11449.1	11767.4	12219.5	12740.7	13386.5	14198.4	14613.5	14779.6
7.5°	8335.4	8612.2	8925.9	9267.2	9733.1	10545.0	11241.5	11988.8	13026.7	13455.7	14106.1
10°	6804.0	7113.0	7528.2	7791.1	8353.9	9128.8	9940.7	10803.3	11795.1	12413.2	13165.1
12.5°	6015.2	6268.9	6651.7	7205.3	7625.1	8127.9	8732.1	9820.8	11241.5	11827.4	12344.0
15°	5143.3	5424.7	5867.6	6481.1	6983.9	7583.5	8261.6	9447.1	10960.2	11864.3	12302.5
17.5°	4423.7	4626.7	5092.6	5623.1	6199.7	6854.7	7828.0	9428.7	11255.4	12413.2	13128.2
20°	3925.5	3953.2	4206.9	4659.0	5443.2	6296.6	7560.5	9336.4	12201.0	13358.8	14263.0
22.5°	3611.9	3584.2	3588.8	3971.7	4520.6	5747.6	7140.7	9650.1	13275.8	14862.6	15471.5
25°	3455.0	3381.2	3335.1	3418.1	3916.3	5097.2	6822.4	10065.3	14433.6	16103.5	16850.8
27.5°	3372.0	3242.8	3150.6	3164.4	3528.8	4769.7	6624.1	10245.2	15582.2	17833.3	18096.2
30°	3339.7	3178.3	3044.5	2998.4	3238.2	4313.0	6199.7	10554.2	16610.9	18783.6	19009.6
32.5°	3224.4	3026.0	2896.9	2855.4	2952.2	3911.7	5895.2	10775.6	17519.6	19816.8	19738.4
35°	3090.6	2924.6	2763.1	2684.7	2753.9	3653.4	5650.8	10669.5	18589.8	20619.5	20578.0
37.5°	3076.8	2860.0	2726.2	2597.0	2592.4	3335.1	5318.6	10771.0	19272.5	22058.7	21491.3
40°	2956.8	2818.5	2643.2	2537.1	2477.1	3173.6	4995.7	10531.2	20273.5	22639.9	22081.8
42.5°	2961.5	2753.9	2601.7	2477.1	2417.1	2938.4	4774.3	10466.6	20624.1	23585.5	22358.5
45°	2887.6	2684.7	2555.5	2407.9	2375.6	2758.5	4562.1	10166.7	21242.2	23631.7	22012.6
47.5°	2813.8	2633.9	2495.6	2320.3	2246.5	2693.9	4396.1	9917.6	20919.3	23198.1	21532.8
50°	2763.1	2555.5	2426.4	2301.8	2094.2	2583.2	4179.3	9857.7	20467.3	22612.2	20642.5
52.5°	2675.5	2490.9	2357.2	2260.3	1928.2	2481.7	4096.2	10208.3	21020.8	22174.0	20384.2
55°	2592.4	2403.3	2232.6	2043.5	1789.8	2214.2	3865.6	10535.8	21828.0	23184.2	21555.9
57.5°	2504.8	2324.9	2140.4	1914.3	1656.0	1937.4	3625.7	10595.7	20315.0	21426.7	20462.6
60°	2389.5	2158.8	2020.4	1725.2	1513.0	1605.3	2873.8	9341.0	15757.5	17893.3	17925.6
62.5°	2260.3	2011.2	1891.3	1545.3	1365.4	1383.9	2343.3	7851.1	12782.2	14811.9	15692.9
65°	2089.6	1849.8	1706.8	1430.0	1259.3	1199.3	1716.0	5752.2	9710.1	12016.5	13017.5
67.5°	1868.2	1642.2	1462.3	1245.5	1125.5	1028.7	1171.7	3238.2	5733.8	8067.9	8372.3
70°	1633.0	1439.2	1250.1	1070.2	936.4	867.2	858.0	1434.6	2740.0	4340.7	4940.4
72.5°	1287.0	1148.6	996.4	862.6	775.0	673.5	613.5	595.1	927.2	1766.7	2440.2
75°	922.6	807.3	719.6	632.0	567.4	512.0	465.9	424.4	387.5	442.8	608.9
77.5°	581.2	539.7	470.5	447.4	410.5	396.7	378.3	355.2	327.5	309.1	309.1
80°	392.1	364.4	341.4	336.7	322.9	318.3	322.9	299.8	272.2	249.1	258.3
82.5°	262.9	258.3	253.7	249.1	253.7	258.3	267.5	262.9	239.9	226.0	230.6
85°	156.8	166.1	175.3	184.5	203.0	179.9	147.6	124.5	110.7	101.5	96.9
87.5°	60.0	83.0	73.8	69.2	73.8	69.2	64.6	60.0	50.7	46.1	46.1
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°	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6	14124.6
2.5°	15273.2	15365.4	15443.9	15425.4	15264.0	15047.1	14959.5	14512.1	14419.8	14359.8
5°	15480.8	16015.8	16131.2	16062.0	15642.2	15111.7	14595.1	13940.1	13557.2	13543.4
7.5°	15097.9	15757.5	15965.1	16121.9	15563.8	14641.2	13755.5	12773.0	12533.1	12551.6
10°	14124.6	15176.3	15688.3	15849.8	15208.6	14410.6	13183.6	12187.2	11675.1	11665.9
12.5°	13584.9	14410.6	14553.6	14779.6	14590.5	13783.2	12851.4	11735.1	11236.9	11227.7
15°	13105.1	13649.4	13691.0	14009.3	14110.7	13566.4	12939.1	11749.0	11347.6	11306.1
17.5°	13524.9	13146.6	12989.8	13031.3	13331.2	13529.5	13446.5	12533.1	12122.6	11892.0
20°	13806.3	12962.1	12487.0	12533.1	12888.3	13612.5	14203.0	13667.9	13017.5	13045.2
22.5°	14558.2	12989.8	12247.1	12196.4	12759.2	14046.2	15056.4	15102.5	14475.2	14322.9
25°	15683.7	13308.1	12173.3	12159.5	12699.2	14512.1	16052.7	16800.0	16158.8	15877.5
27.5°	16587.8	13806.3	12404.0	12450.1	12888.3	14890.3	16901.5	17893.3	17404.3	17058.4
30°	17381.3	14322.9	12726.9	12514.7	13395.7	15088.7	17265.9	19138.8	18746.7	18460.7
32.5°	17708.8	15056.4	13238.9	12888.3	13815.5	15328.5	18022.4	20347.3	20010.6	19304.8
35°	18262.3	15466.9	13515.7	13488.0	14549.0	15905.1	18377.6	21145.3	21007.0	20379.6
37.5°	18705.1	15882.1	14498.2	14193.8	15554.6	16873.8	18949.6	22247.8	21929.5	21634.3
40°	19046.5	16624.7	15416.2	15817.5	16790.8	17754.9	19475.5	22317.0	23235.0	22377.0
42.5°	18732.8	17289.0	16924.6	17884.1	18806.6	18760.5	19535.5	22852.1	23539.4	23092.0
45°	18654.4	18414.5	19309.4	20181.3	20393.4	19595.4	19106.5	22261.7	23447.2	23248.8
47.5°	18465.3	19521.6	21080.8	22501.5	22178.6	20153.6	18594.4	22155.6	23502.5	23147.3
50°	18400.7	19761.5	22390.8	23774.7	23580.9	20637.9	18354.6	21472.9	23110.4	23078.1
52.5°	18396.1	20255.1	22935.1	24466.6	24586.5	21403.7	18682.1	21818.8	23414.9	23687.0
55°	18603.7	20098.2	22865.9	24083.7	24037.6	21062.3	18719.0	22049.5	23788.5	24056.1
57.5°	17547.3	18004.0	18871.2	19835.3	19586.2	17445.8	16717.0	20384.2	21832.7	21638.9
60°	15153.2	13723.3	12745.3	12699.2	12214.9	11546.0	13681.7	18193.1	18193.1	18004.0
62.5°	13271.2	9008.9	7740.4	7380.6	7726.5	8496.9	13197.4	17694.9	17192.1	16975.3
65°	11606.0	6877.8	5595.4	5493.9	6093.6	7256.0	11933.5	15074.8	14189.2	13469.5
67.5°	7468.2	5037.2	4160.8	3980.9	4705.1	5327.9	7943.3	9271.8	8713.7	8432.3
70°	4815.8	3279.7	2315.7	2172.7	2454.0	3284.4	5074.1	5406.3	4594.4	4405.3
72.5°	2278.8	1416.1	811.9	668.9	751.9	1254.7	2006.6	2158.8	1794.4	1642.2
75°	724.2	521.3	332.1	286.0	272.2	322.9	461.3	355.2	258.3	253.7
77.5°	322.9	309.1	262.9	221.4	193.7	161.5	133.8	110.7	115.3	119.9
80°	267.5	244.5	216.8	193.7	161.5	124.5	96.9	73.8	73.8	78.4
82.5°	235.3	212.2	189.1	161.5	138.4	101.5	73.8	50.7	46.1	46.1
85°	101.5	119.9	129.2	138.4	110.7	83.0	50.7	32.3	27.7	27.7
87.5°	41.5	36.9	32.3	27.7	23.1	23.1	18.5	13.8	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)