

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: P531954

Luminaire Tested: **GALN-SA7B-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531954
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-SA7B-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 27496 lumens
Efficiency: N/A
Efficacy: 96.1 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

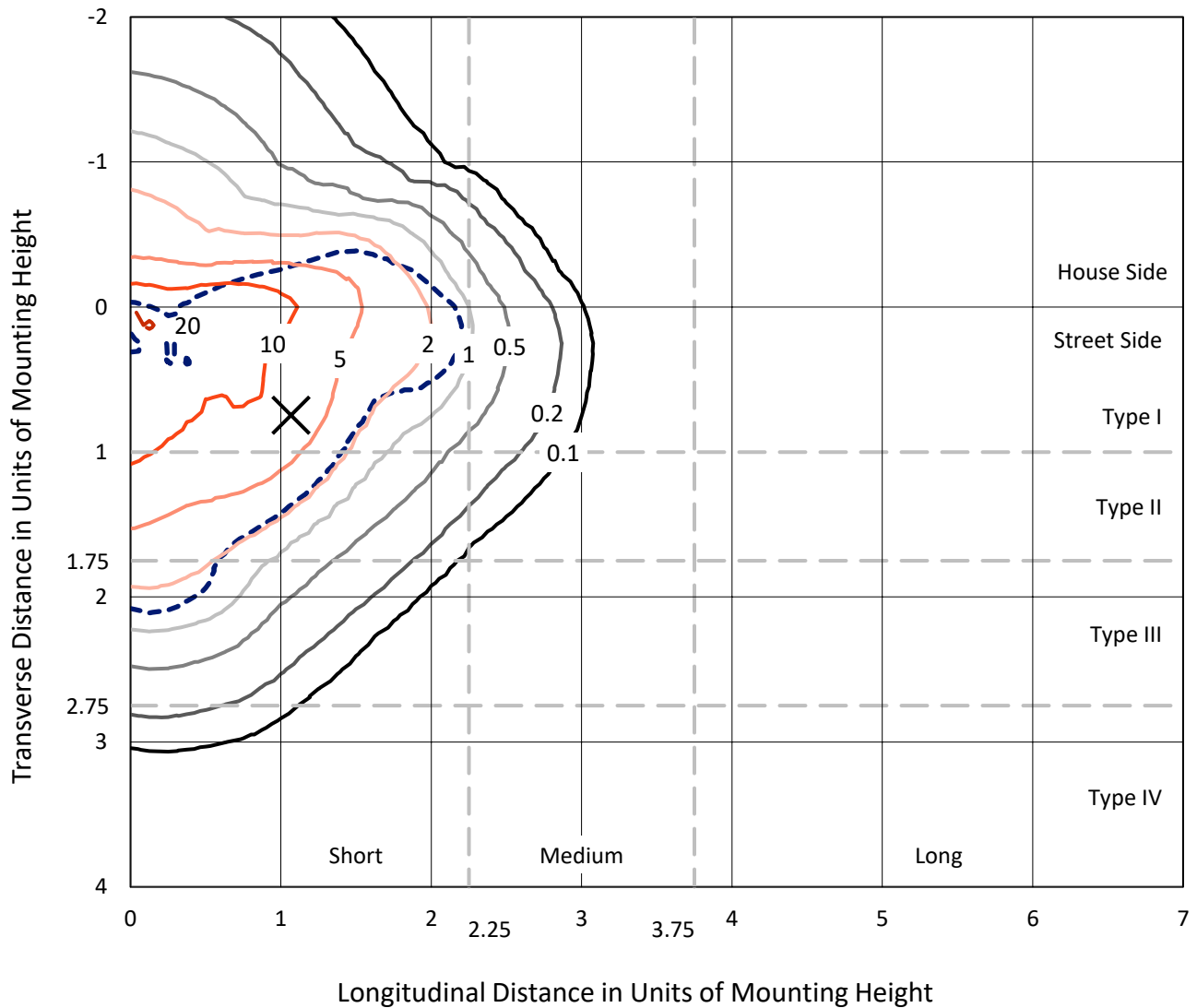
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

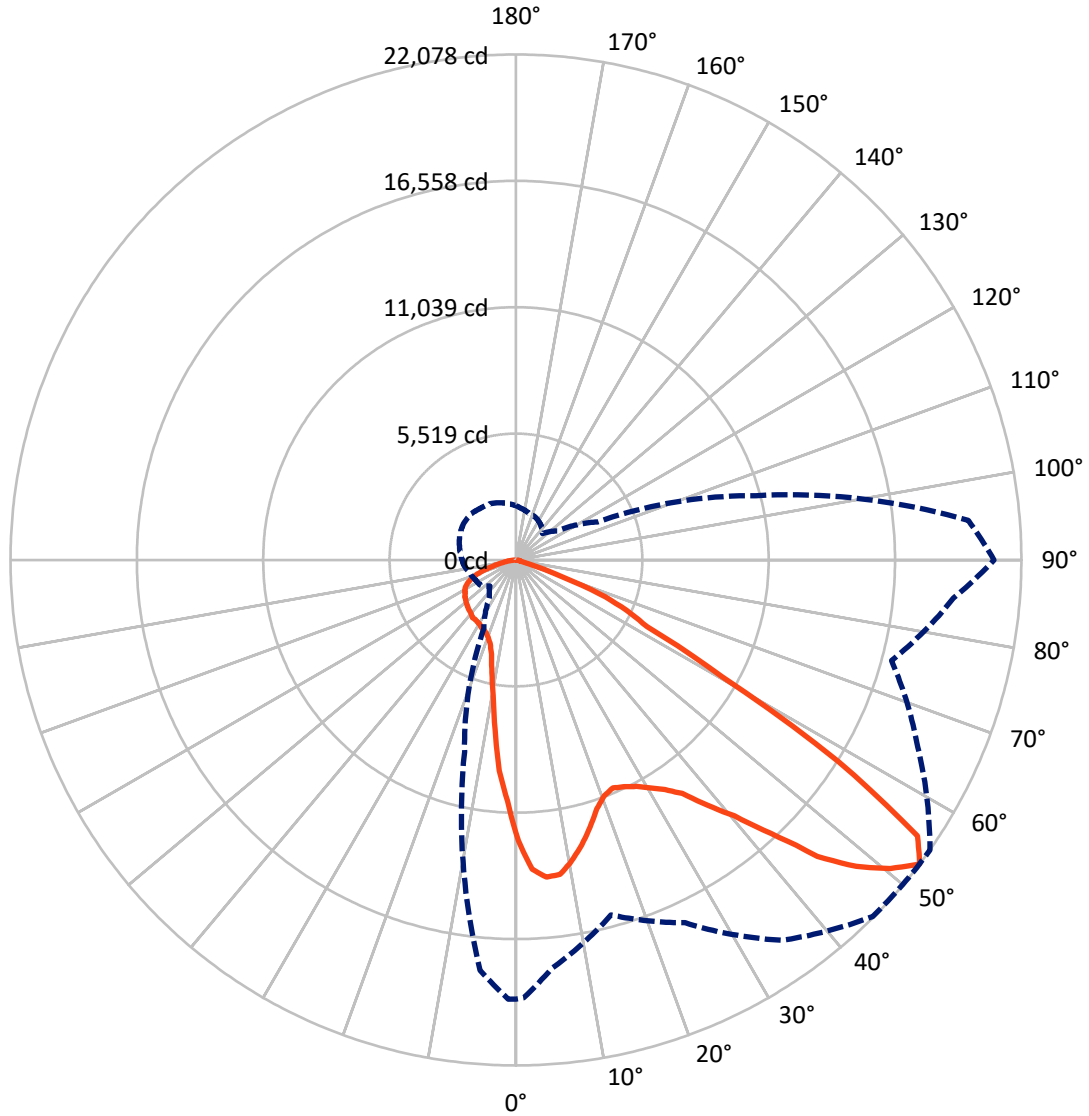
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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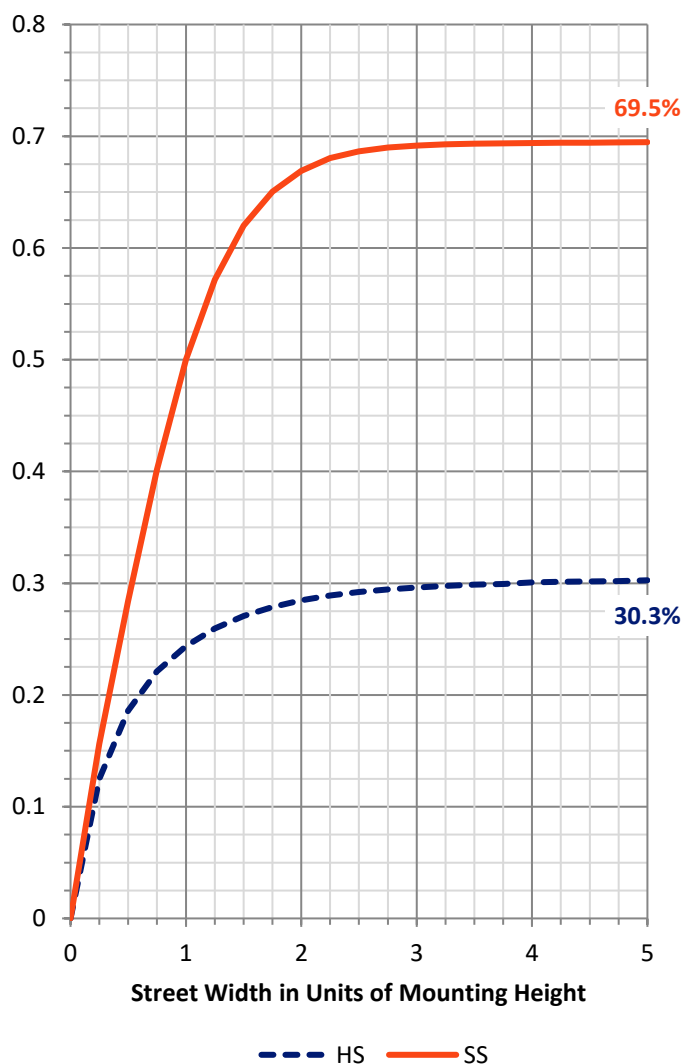
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8387.8	0.0	8387.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	19108.2	0.0	19108.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	27496.0	0.0	27496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.1	3.4
10°-20°	2020.4	7.3
20°-30°	3063.6	11.1
30°-40°	4426.4	16.1
40°-50°	5914.9	21.5
50°-60°	6602.3	24.0
60°-70°	3621.7	13.2
70°-80°	783.0	2.8
80°-90°	126.7	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°	27496.0	100.0
0°-180°	27496.0	100.0

Coefficient of Utilization



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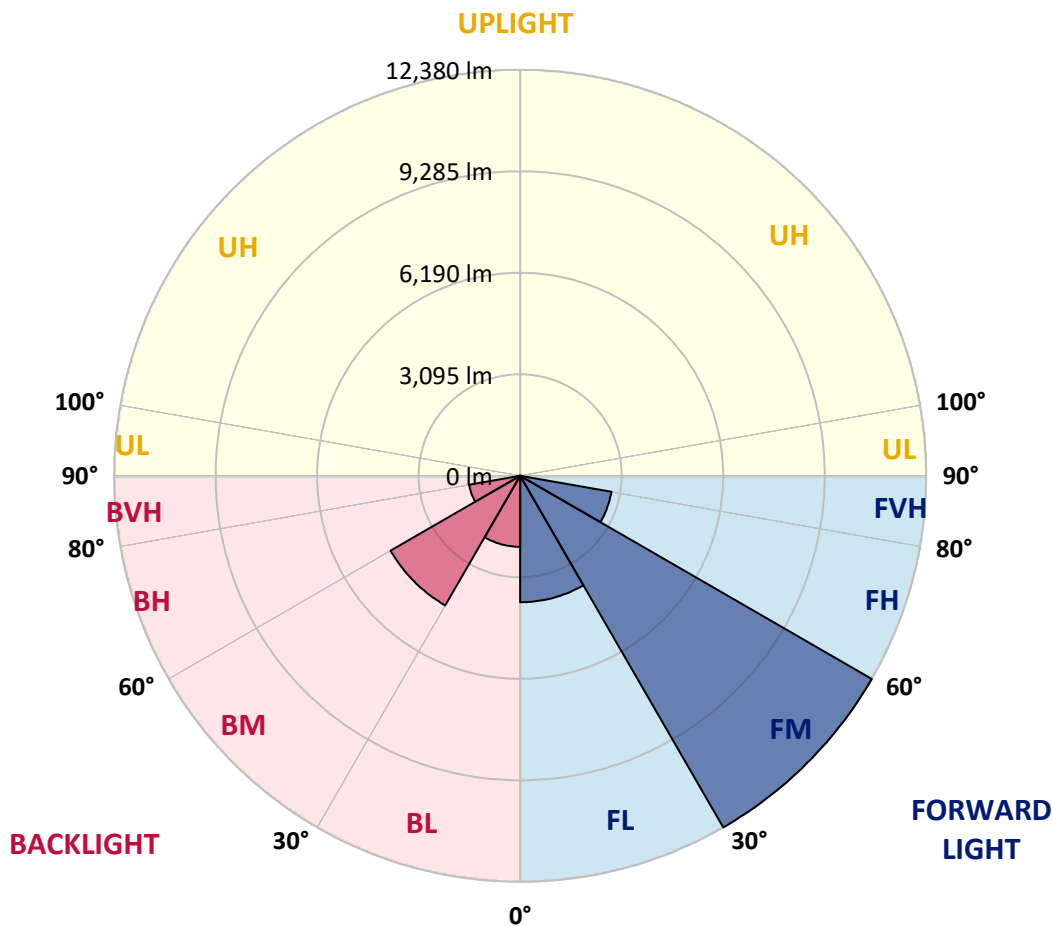
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3855.4	14.0			
FM (30°-60°)	12380.0	45.0			
FH (60°-80°)	2825.9	10.3			G2/5000
FVH (80°-90°)	46.9	0.2			G1/100
BL (0°-30°)	2165.6	7.9	B3/2500		
BM (30°-60°)	4563.6	16.6	B3/5000		
BH (60°-80°)	1578.8	5.7	B3/2500		G3/2500
BVH (80°-90°)	79.8	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°	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3
2.5°	12871.6	12799.3	12863.6	13168.7	13345.3	13465.8	13542.1	13530.0	13240.9	12959.9	12959.9
5°	12494.2	12401.8	12534.3	13224.9	13919.5	13979.7	14080.1	13915.4	13489.9	12976.0	12333.6
7.5°	11402.2	11470.4	11691.2	12598.6	13501.9	13955.6	14076.0	13867.3	13176.7	12217.2	11273.7
10°	10458.7	10619.3	11129.1	12108.8	12939.8	13530.0	13662.5	13369.4	12823.4	11647.1	10803.9
12.5°	10133.5	10033.1	10599.2	11578.8	12373.7	12690.9	12751.1	12771.2	12401.8	11358.0	10330.2
15°	10093.3	10157.6	10599.2	11341.9	11831.7	11847.8	11948.2	12104.7	12152.9	11554.7	10551.0
17.5°	10671.5	10595.2	11048.8	11639.0	11406.2	11173.3	11197.4	11422.2	11819.7	11723.3	11245.6
20°	11526.6	11699.3	12056.6	11996.3	11370.0	10779.9	10783.9	10996.7	11779.5	12421.9	12213.1
22.5°	12947.9	13116.5	13381.5	12654.8	11370.0	10663.4	10526.9	10816.0	12036.5	13253.0	13305.2
25°	14244.7	14553.8	14626.1	13770.9	11940.1	10771.8	10683.5	10968.5	12293.4	14064.0	14557.8
27.5°	15425.0	15537.4	15854.6	14489.6	12257.3	10844.1	10836.1	11201.4	12618.6	14469.5	15678.0
30°	16356.5	16344.4	16525.1	14943.2	12763.2	11249.6	10860.1	11550.7	13044.2	15140.0	16713.8
32.5°	16990.8	17127.3	17508.7	15573.6	12976.0	11635.0	11329.9	11960.2	13562.1	15457.1	17444.5
35°	18106.9	18343.8	17862.0	15922.9	13650.5	12016.4	11659.1	12518.3	13819.1	15802.4	18339.8
37.5°	19158.8	18978.2	18488.3	16111.6	14088.1	12723.0	12389.8	13598.3	14618.0	16553.2	18934.0
40°	19833.3	19829.3	18958.1	16264.1	14397.2	13803.0	13783.0	14694.3	15597.7	17026.9	19600.5
42.5°	20126.4	20407.4	19150.8	16248.1	15047.6	15111.9	15517.4	16332.4	16292.2	17123.3	19584.4
44°	20527.9	20696.5	19484.0	16284.2	15481.2	15995.1	16950.7	17468.6	16898.5	17071.1	19564.3
45°	20511.8	20523.9	19010.3	16332.4	15850.6	16733.9	17589.0	18464.3	17432.4	16958.7	19829.3
47.5°	20042.1	19905.6	18608.8	15975.1	17002.9	18685.1	19476.0	20006.0	18090.9	16717.8	19500.1
50°	19114.7	18958.1	17633.2	15822.5	17243.7	19897.6	20989.6	21182.3	18689.1	16480.9	19174.9
52.5°	19178.9	19134.7	17910.2	16051.3	17484.6	20279.0	22029.4	22077.6	19367.6	16978.8	19178.9
55°	20327.1	20174.6	18705.1	16336.4	17308.0	19833.3	21367.0	21282.7	19138.8	16677.7	19532.2
57.5°	18600.8	18701.1	17605.1	15208.2	15148.0	16123.6	16798.1	16589.3	15971.0	15051.6	18171.2
60°	15007.5	15292.5	15396.9	12719.0	11430.3	10928.4	10727.7	10358.3	10462.7	12365.7	15963.0
62.5°	12871.6	12855.5	13509.9	11530.6	7487.7	6439.8	6343.5	6427.8	7632.2	12173.0	15633.8
65°	10205.7	10478.7	10679.5	9772.1	5925.9	4781.7	4777.7	5311.6	6604.4	10173.6	12622.7
67.5°	6480.0	6837.3	7086.2	6251.1	3962.6	3404.6	3312.2	3954.6	4576.9	6672.7	7600.1
70°	3653.5	3822.1	3934.5	3605.3	2521.3	1766.5	1662.1	1814.7	2766.2	4320.0	4504.7
72.5°	1409.2	1485.5	1638.1	1650.1	951.5	570.1	461.7	554.0	1164.3	1710.3	1630.0
75°	216.8	232.9	329.2	393.5	273.0	208.8	220.8	228.8	325.2	441.6	369.4
77.5°	104.4	104.4	100.4	116.4	136.5	148.5	160.6	176.7	192.7	212.8	204.8
80°	68.3	68.3	68.3	80.3	100.4	120.4	136.5	144.5	152.6	168.6	160.6
82.5°	44.2	44.2	44.2	60.2	80.3	100.4	108.4	128.5	144.5	168.6	156.6
85°	24.1	24.1	24.1	40.1	60.2	84.3	80.3	64.2	36.1	4.0	8.0
87.5°	8.0	8.0	8.0	8.0	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°	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3
2.5°	12622.7	12438.0	12421.9	12044.5	11707.3	11542.7	11410.2	11040.8	11121.1	10908.3	10904.3
5°	12012.4	11635.0	11024.8	10522.9	10021.0	9920.7	9483.1	9101.6	9113.7	8840.7	8888.9
7.5°	10916.4	10655.4	9912.6	9125.7	8459.3	7985.5	7572.0	7323.1	7005.9	6897.5	6841.3
10°	10221.8	9900.6	9065.5	8077.9	7331.1	7078.2	6680.7	6459.9	6134.7	5974.1	5861.7
12.5°	9916.7	9446.9	8403.1	7399.4	6901.5	6640.5	6303.3	5901.8	5516.4	5367.8	5163.1
15°	9948.8	9386.7	8210.4	7126.3	6528.1	6022.3	5721.2	5275.5	4882.0	4621.1	4472.5
17.5°	10434.6	9752.1	8298.7	6917.6	6058.4	5424.1	4833.9	4352.1	4038.9	3842.2	3794.0
20°	11582.8	10655.4	8447.2	6580.3	5588.7	4797.7	4071.0	3569.2	3328.3	3324.3	3328.3
22.5°	12538.4	11619.0	8748.3	6379.6	5118.9	3994.8	3272.1	3111.5	3063.3	3163.7	3175.7
25°	13827.1	12703.0	9266.3	6275.2	4685.3	3404.6	2958.9	2898.7	2894.7	3023.2	3027.2
27.5°	15148.0	13650.5	9575.4	5970.1	4243.7	3099.5	2770.2	2758.2	2822.4	2958.9	2946.9
30°	16047.3	14445.4	10133.5	5604.7	3721.8	2830.5	2694.0	2710.0	2798.3	2902.7	2918.8
32.5°	17095.2	15228.3	10278.0	5404.0	3400.6	2605.6	2509.3	2545.4	2657.8	2822.4	2910.8
35°	18295.6	15782.3	10498.8	5131.0	3280.1	2433.0	2384.8	2425.0	2561.5	2669.9	2766.2
37.5°	19182.9	16762.0	10539.0	4918.2	3147.6	2336.6	2260.4	2392.8	2473.1	2625.7	2673.9
40°	19841.4	17472.6	10643.3	4785.7	3043.3	2212.2	2212.2	2300.5	2408.9	2549.4	2645.8
42.5°	20262.9	17990.5	10719.6	4665.2	2842.5	2176.0	2156.0	2244.3	2388.8	2525.3	2569.5
44°	20519.9	18211.3	10643.3	4552.8	2786.3	2131.9	2131.9	2208.2	2320.6	2481.2	2533.4
45°	20584.1	18488.3	10474.7	4548.8	2718.0	2079.7	2071.7	2216.2	2292.5	2489.2	2521.3
47.5°	20833.0	18829.6	10494.8	4420.3	2553.4	1955.2	2095.7	2160.0	2228.2	2400.9	2509.3
50°	20825.0	19042.4	10450.6	4231.6	2433.0	1814.7	2047.6	2119.8	2188.1	2364.7	2408.9
52.5°	20881.2	19837.3	10856.1	3930.5	2216.2	1634.0	1887.0	2047.6	2131.9	2280.4	2372.8
55°	20853.1	20291.0	11257.6	3705.7	1911.1	1525.6	1750.5	1939.2	2059.6	2216.2	2260.4
57.5°	19046.4	17934.3	10418.5	3284.1	1581.8	1397.2	1557.8	1826.8	1979.3	2139.9	2196.1
60°	15561.5	13823.1	8591.8	2416.9	1300.8	1284.7	1449.4	1790.6	1854.9	1995.4	2091.7
62.5°	14381.2	12124.8	6813.2	1846.8	1112.1	1176.3	1336.9	1618.0	1718.4	1891.0	1979.3
65°	11253.6	8053.8	4219.6	1248.6	979.6	1055.9	1208.5	1417.2	1581.8	1742.4	1846.8
67.5°	6664.6	4400.3	2087.7	875.2	855.2	935.5	1092.0	1248.6	1437.3	1614.0	1666.2
70°	3629.4	2164.0	891.3	666.5	726.7	799.0	951.5	1059.9	1240.6	1377.1	1465.4
72.5°	1164.3	658.4	445.6	493.8	554.0	638.4	730.7	863.2	991.7	1072.0	1144.2
75°	281.0	277.0	317.2	345.3	401.5	465.7	542.0	610.3	710.6	786.9	851.1
77.5°	196.7	212.8	244.9	285.1	305.1	329.2	377.4	429.6	473.8	530.0	570.1
80°	152.6	164.6	188.7	208.8	228.8	248.9	273.0	293.1	321.2	357.3	377.4
82.5°	144.5	152.6	176.7	188.7	180.7	176.7	192.7	200.7	204.8	216.8	228.8
85°	12.0	0.0	8.0	28.1	68.3	100.4	108.4	108.4	104.4	112.4	112.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	16.1	12.0
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°	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3
2.5°	10856.1	10719.6	10771.8	10836.1	10743.7	10530.9	10587.1	10563.0	10779.9	10763.8	10980.6
5°	9101.6	8888.9	8912.9	9226.1	9125.7	9234.1	9017.3	8989.2	9029.4	9049.5	9085.6
7.5°	6965.8	6937.6	7178.5	7443.5	7568.0	7439.5	7226.7	7178.5	7134.4	7046.0	7246.8
10°	5685.0	5693.0	5677.0	5877.7	6018.2	5990.1	5861.7	5845.6	5761.3	5729.2	5841.6
12.5°	5074.8	4966.4	4914.2	4849.9	4958.3	5030.6	4974.4	4934.2	4938.3	4978.4	4994.5
15°	4484.6	4416.3	4303.9	4231.6	4283.8	4247.7	4227.6	4307.9	4287.9	4279.8	4376.2
17.5°	3822.1	3878.3	3870.3	3790.0	3858.3	3830.2	3826.1	3769.9	3693.7	3637.4	3669.6
20°	3384.5	3488.9	3569.2	3573.2	3609.3	3605.3	3545.1	3372.5	3316.3	3304.2	3312.2
22.5°	3227.9	3284.1	3380.5	3517.0	3517.0	3452.8	3380.5	3179.8	3127.6	3071.4	3047.3
25°	3103.5	3211.9	3336.3	3352.4	3416.6	3356.4	3240.0	3139.6	3031.2	2954.9	2954.9
27.5°	3039.2	3159.7	3252.0	3280.1	3368.5	3320.3	3199.8	3071.4	2942.9	2938.9	2870.6
30°	3011.1	3123.5	3183.8	3252.0	3292.2	3215.9	3179.8	3043.3	2914.8	2882.7	2770.2
32.5°	2926.8	3087.4	3199.8	3183.8	3215.9	3183.8	3131.6	3019.2	2874.6	2802.4	2790.3
35°	2830.5	2991.1	3111.5	3195.8	3215.9	3147.6	3115.5	2963.0	2766.2	2730.1	2605.6
37.5°	2778.3	2874.6	3023.2	3159.7	3187.8	3151.7	3043.3	2886.7	2689.9	2649.8	2541.4
40°	2714.0	2838.5	2954.9	3067.3	3151.7	3063.3	2938.9	2786.3	2698.0	2577.5	2545.4
42.5°	2665.9	2806.4	2902.7	3027.2	3123.5	3007.1	2862.6	2758.2	2633.7	2553.4	2461.1
44°	2649.8	2778.3	2842.5	2995.1	3075.4	2987.0	2866.6	2758.2	2613.7	2541.4	2461.1
45°	2593.6	2770.2	2838.5	2975.0	3043.3	2971.0	2818.4	2710.0	2605.6	2517.3	2433.0
47.5°	2537.4	2657.8	2774.3	2882.7	2930.8	2906.7	2778.3	2645.8	2521.3	2469.1	2388.8
50°	2521.3	2641.8	2750.2	2850.5	2906.7	2858.6	2742.1	2613.7	2469.1	2384.8	2316.6
52.5°	2441.0	2589.6	2710.0	2742.1	2814.4	2786.3	2698.0	2557.5	2420.9	2348.7	2292.5
55°	2324.6	2481.2	2645.8	2685.9	2790.3	2746.2	2613.7	2481.2	2364.7	2256.3	2184.1
57.5°	2280.4	2433.0	2593.6	2645.8	2710.0	2637.8	2605.6	2465.1	2280.4	2224.2	2111.8
60°	2168.0	2360.7	2493.2	2613.7	2617.7	2597.6	2541.4	2380.8	2228.2	2123.9	2043.6
62.5°	2079.7	2260.4	2364.7	2477.2	2545.4	2489.2	2433.0	2284.4	2119.8	2003.4	1911.1
65°	1951.2	2115.8	2204.1	2272.4	2348.7	2340.7	2244.3	2135.9	1963.3	1870.9	1782.6
67.5°	1754.5	1899.0	2019.5	2083.7	2131.9	2119.8	2047.6	1971.3	1794.6	1702.3	1638.1
70°	1517.6	1666.2	1742.4	1778.6	1826.8	1850.8	1794.6	1758.5	1601.9	1481.5	1421.3
72.5°	1220.5	1316.9	1429.3	1461.4	1481.5	1497.5	1497.5	1465.4	1304.8	1256.6	1152.3
75°	899.3	975.6	1059.9	1059.9	1096.1	1100.1	1108.1	1088.0	967.6	903.3	879.3
77.5°	610.3	666.5	734.7	762.8	786.9	782.9	778.9	722.7	658.4	630.3	606.2
80°	397.5	453.7	485.8	521.9	546.0	542.0	550.0	509.9	481.8	433.6	441.6
82.5°	236.9	281.0	313.2	357.3	357.3	369.4	369.4	357.3	329.2	305.1	305.1
85°	112.4	148.5	168.6	196.7	212.8	216.8	192.7	164.6	136.5	124.5	136.5
87.5°	20.1	28.1	40.1	36.1	44.2	40.1	40.1	40.1	40.1	32.1	36.1
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°	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3	12265.3
2.5°	10900.3	11101.0	11241.6	11474.4	11875.9	12197.1	12526.3	12771.2	12799.3	12871.6
5°	9218.1	9326.5	9683.8	10149.5	10478.7	11020.7	11370.0	12004.4	12241.3	12494.2
7.5°	7198.6	7375.3	7853.0	8166.2	8888.9	9567.4	10270.0	11052.9	11366.0	11402.2
10°	6070.4	6327.4	6652.6	7154.4	7547.9	8302.7	9177.9	10049.2	10398.4	10458.7
12.5°	5331.7	5660.9	6094.5	6455.9	6833.3	7491.7	8330.8	9406.8	9860.5	10133.5
15°	4621.1	4962.3	5440.1	5942.0	6275.2	7062.1	8049.8	9262.2	9852.4	10093.3
17.5°	3890.4	4207.6	4601.0	5143.0	5813.5	6696.8	8005.6	9744.0	10390.4	10671.5
20°	3264.1	3440.7	3898.4	4456.5	5295.6	6323.4	8021.7	10454.6	11402.2	11526.6
22.5°	3019.2	3059.3	3240.0	3753.9	4673.3	5942.0	8306.7	11462.4	12538.4	12947.9
25°	2830.5	2822.4	2870.6	3215.9	4219.6	5793.4	8587.7	12389.8	13799.0	14244.7
27.5°	2726.1	2645.8	2649.8	2975.0	3898.4	5552.5	8949.1	13453.7	15228.3	15425.0
30°	2673.9	2657.8	2609.6	2742.1	3549.1	5191.2	9009.3	14501.6	16071.4	16356.5
32.5°	2641.8	2485.2	2425.0	2473.1	3219.9	4797.7	9234.1	15192.2	17115.3	16990.8
35°	2481.2	2340.7	2300.5	2348.7	2987.0	4576.9	9085.6	15794.4	17898.2	18106.9
37.5°	2420.9	2296.5	2216.2	2176.0	2770.2	4392.2	9009.3	16721.8	18657.0	19158.8
40°	2364.7	2232.3	2135.9	2095.7	2601.6	4147.3	8985.2	17436.5	19532.2	19833.3
42.5°	2300.5	2216.2	2107.8	2035.5	2396.9	3902.4	8708.2	17657.3	19801.2	20126.4
44°	2280.4	2152.0	2039.5	2015.5	2316.6	3778.0	8652.0	17858.0	20034.1	20527.9
45°	2260.4	2139.9	2011.4	1979.3	2288.5	3709.7	8575.7	17906.2	20419.5	20511.8
47.5°	2204.1	2127.9	2003.4	1915.1	2228.2	3561.2	8346.9	17633.2	20026.0	20042.1
50°	2160.0	2071.7	1943.2	1770.5	2147.9	3436.7	8451.2	17532.8	19078.5	19114.7
52.5°	2111.8	1979.3	1907.1	1610.0	2015.5	3332.3	8672.1	17986.5	19186.9	19178.9
55°	2055.6	1911.1	1734.4	1473.4	1794.6	3199.8	9206.0	18881.8	20190.6	20327.1
57.5°	1967.3	1842.8	1589.9	1353.0	1541.7	2946.9	9033.4	17167.5	18576.7	18600.8
60°	1850.8	1734.4	1441.3	1260.7	1264.7	2324.6	8077.9	13377.5	14658.2	15007.5
62.5°	1738.4	1674.2	1316.9	1128.2	1076.0	1850.8	6829.2	11117.1	12582.5	12871.6
65°	1605.9	1449.4	1208.5	1027.8	923.4	1296.8	4837.9	8306.7	9816.3	10205.7
67.5°	1437.3	1268.7	1063.9	903.3	790.9	867.2	2497.2	4721.5	6251.1	6480.0
70°	1256.6	1100.1	895.3	762.8	638.4	598.2	1100.1	2252.3	3416.6	3653.5
72.5°	1031.8	887.3	714.6	602.2	477.8	413.5	369.4	602.2	1212.5	1409.2
75°	746.8	646.4	538.0	429.6	337.2	265.0	216.8	180.7	200.7	216.8
77.5°	550.0	469.7	397.5	305.1	236.9	188.7	148.5	112.4	108.4	104.4
80°	429.6	381.4	317.2	244.9	184.7	140.5	104.4	76.3	68.3	68.3
82.5°	337.2	313.2	261.0	200.7	152.6	112.4	76.3	52.2	44.2	44.2
85°	128.5	128.5	188.7	164.6	116.4	80.3	52.2	28.1	24.1	24.1
87.5°	32.1	32.1	32.1	32.1	28.1	24.1	24.1	12.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)