

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: P651024

Luminaire Tested: **GALN-SA7C-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651024
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-SA7C-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA 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: 30671.3 lumens
Efficiency: N/A
Efficacy: 81.4 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

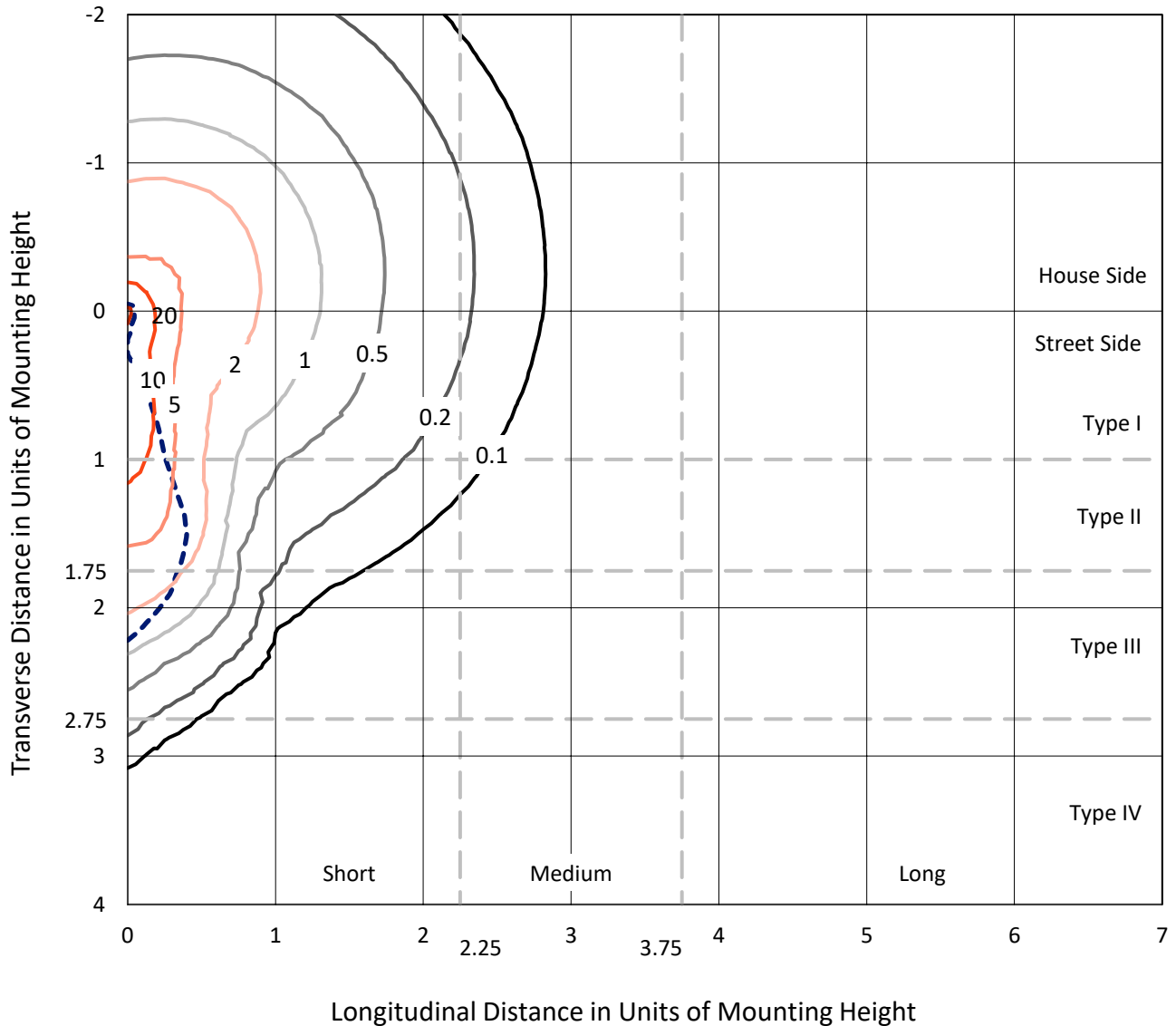
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

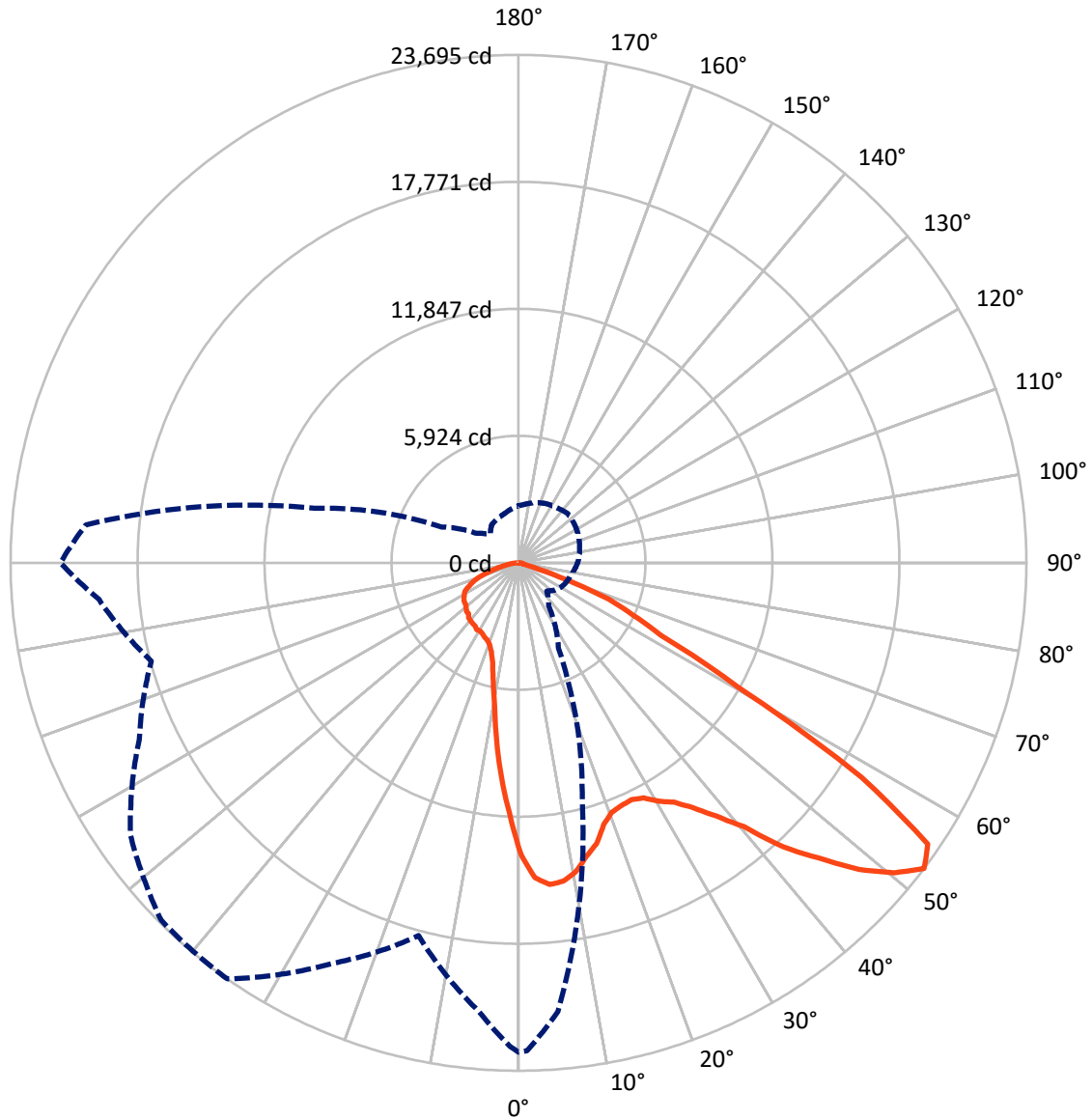
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical



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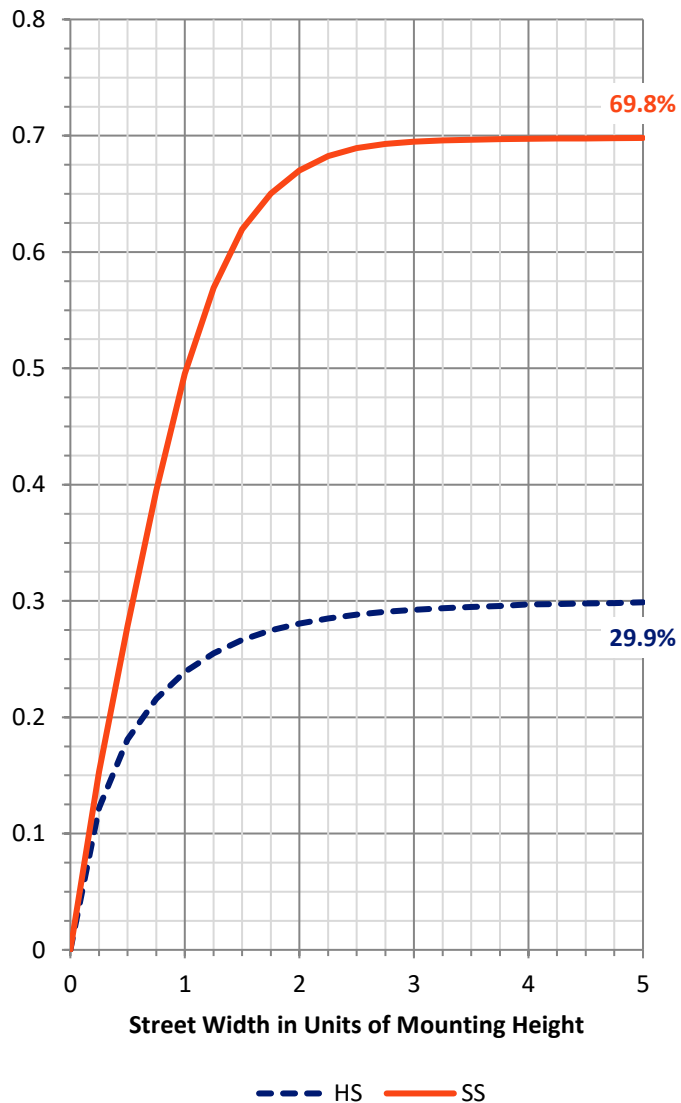
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9246.1	0.0	9246.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	21425.2	0.0	21425.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	30671.3	0.0	30671.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.5	3.4
10°-20°	2251.3	7.3
20°-30°	3401.5	11.1
30°-40°	4915.3	16.0
40°-50°	6541.4	21.3
50°-60°	7316.7	23.9
60°-70°	4123.7	13.4
70°-80°	919.2	3.0
80°-90°	163.7	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°	30671.3	100.0
0°-180°	30671.3	100.0

Coefficient of Utilization



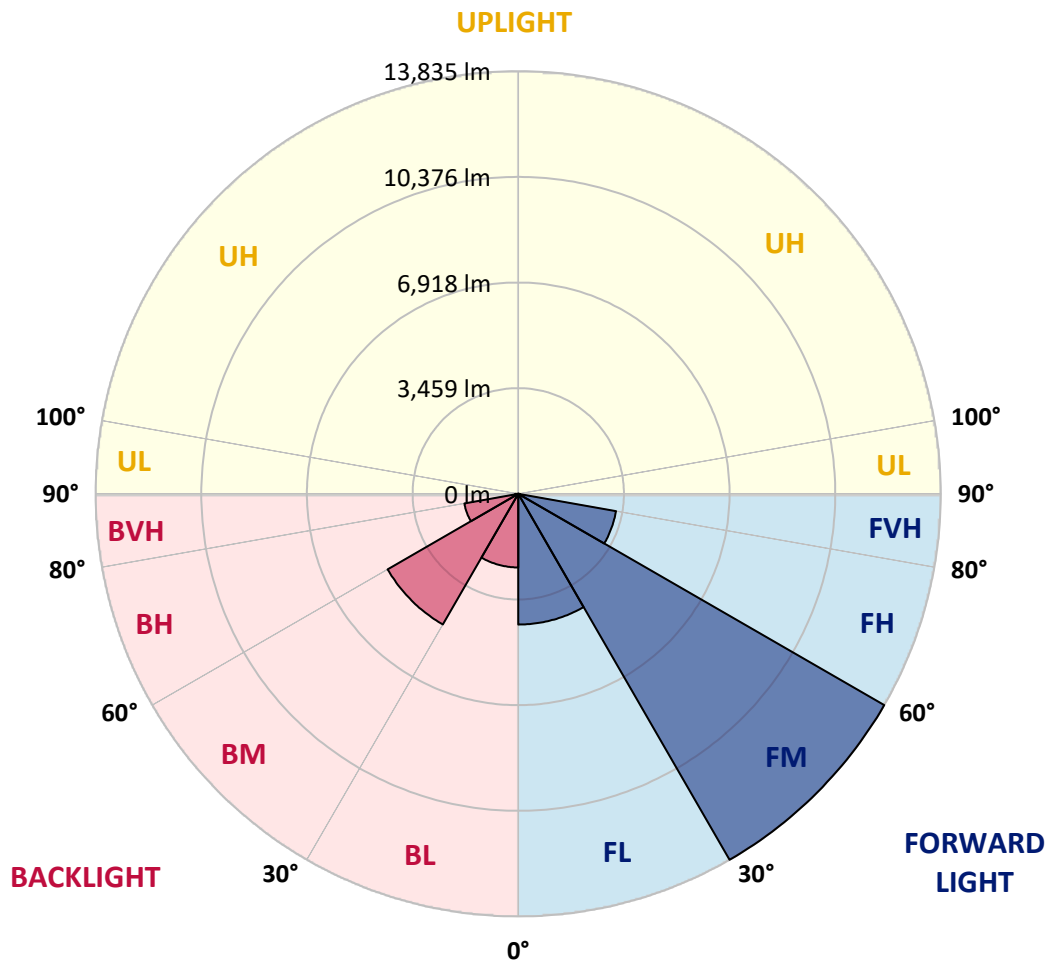
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4280.1	14.0			
FM (30°-60°)	13835.1	45.1			
FH (60°-80°)	3250.7	10.6			G2/5000
FVH (80°-90°)	59.3	0.2			G1/100
BL (0°-30°)	2411.2	7.9	B3/2500		
BM (30°-60°)	4938.3	16.1	B3/5000		
BH (60°-80°)	1792.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	104.4	0.3			G2/225
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°	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1
2.5°	13838.8	14061.1	13821.1	13394.3	13092.0	12816.3	12527.4	12469.6	12091.7	12025.0	11749.4
5°	13052.0	13003.0	12709.7	12149.5	11531.6	10971.4	10558.1	10157.9	9886.8	9571.2	9548.9
7.5°	12096.2	11811.7	11642.7	10793.6	10029.0	9148.8	8771.0	8161.9	7970.7	7686.2	7539.6
10°	11242.7	11033.8	10638.1	9789.0	8722.1	8139.7	7735.2	7406.2	7183.9	6890.5	6521.5
12.5°	10820.3	10735.9	10291.3	8975.5	8184.2	7561.8	7277.3	6957.2	6579.3	6108.1	5925.9
15°	10895.9	10611.4	10273.6	8819.8	7726.3	7126.1	6672.7	6272.6	5788.0	5339.0	5076.8
17.5°	11460.5	11242.7	10566.9	8917.6	7552.9	6686.0	5863.6	5272.3	4836.7	4432.2	4249.9
20°	12571.9	12256.2	11496.0	9042.1	7179.4	6072.5	5130.1	4401.0	3934.3	3720.8	3658.6
22.5°	13803.2	13616.5	12402.9	9322.2	6881.7	5503.5	4352.2	3623.1	3449.7	3391.9	3507.5
25°	15301.4	14816.8	13812.2	9780.1	6650.5	5018.9	3694.2	3289.7	3200.8	3258.5	3391.9
27.5°	16439.4	16310.5	14799.1	10211.3	6334.8	4436.6	3325.2	3058.5	3085.2	3143.0	3267.5
30°	17790.9	17137.4	15754.8	10509.1	6050.3	4036.5	3067.4	2996.2	3023.0	3120.7	3182.9
32.5°	18604.3	18359.9	16354.9	10958.1	5721.3	3689.7	2867.3	2800.7	2840.6	2987.4	3134.1
35°	19640.2	19155.6	17097.4	11073.7	5490.2	3552.0	2725.1	2676.1	2769.6	2871.8	3036.3
37.5°	20849.4	20515.9	18124.3	10993.7	5365.7	3409.7	2605.1	2582.8	2649.5	2791.8	2982.9
40°	21565.1	21462.8	18662.2	11042.6	5170.1	3285.2	2467.2	2493.9	2631.7	2742.8	2929.5
42.5°	22254.1	21587.3	19457.9	11024.8	5045.7	3116.3	2480.6	2449.5	2556.1	2685.1	2862.9
45°	22405.2	21742.9	19644.7	10900.4	4894.5	2951.8	2378.3	2391.6	2520.6	2680.6	2796.2
47.5°	22307.4	21818.5	19991.4	10864.8	4752.2	2836.2	2227.2	2387.3	2462.8	2591.7	2756.2
50°	22240.8	22214.1	20284.8	11033.8	4561.1	2653.9	2044.9	2329.4	2405.0	2533.9	2711.7
52.5°	22827.6	22769.8	21018.3	11478.2	4410.0	2458.3	1858.2	2182.7	2365.0	2489.4	2662.9
55°	23183.3	22929.9	22276.3	12025.0	4156.6	2200.6	1729.3	2000.5	2267.2	2378.3	2556.1
57.5°	20853.8	20680.4	20151.5	11224.8	3729.8	1862.6	1569.2	1813.8	2133.9	2307.2	2489.4
60°	17350.8	17079.6	15723.7	9540.1	2751.8	1449.2	1471.5	1667.0	2098.3	2165.0	2378.3
62.5°	16359.4	15688.2	13843.3	7677.4	2111.6	1244.8	1320.3	1533.7	1911.6	2022.7	2236.1
65°	12980.8	12483.0	9904.5	5543.5	1413.6	1080.3	1204.7	1382.5	1649.3	1867.1	2062.7
67.5°	8126.3	7650.7	5285.7	2622.8	986.9	924.7	1075.8	1262.5	1480.3	1675.9	1893.8
70°	4245.5	3725.3	2440.6	946.9	680.2	755.7	898.0	1075.8	1289.2	1449.2	1618.2
72.5°	1582.6	1284.7	795.8	409.0	471.2	577.9	729.1	858.0	1009.1	1204.7	1298.1
75°	244.5	208.9	204.5	248.9	320.1	417.9	520.2	649.1	782.4	906.9	969.1
77.5°	115.6	111.1	124.5	164.5	213.4	297.9	377.9	502.3	609.1	689.0	724.6
80°	75.6	71.1	80.0	111.1	160.0	222.3	302.3	386.8	484.6	551.3	542.4
82.5°	44.5	48.9	48.9	75.6	111.1	160.0	217.8	293.4	360.1	417.9	382.3
85°	26.7	22.2	22.2	44.5	75.6	128.9	182.2	124.5	128.9	128.9	146.7
87.5°	8.9	8.9	8.9	4.5	8.9	8.9	13.4	22.2	26.7	31.1	40.0
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°	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1
2.5°	11740.5	11878.4	11829.4	11656.1	11789.5	11811.7	11722.8	12029.5	12087.3	11993.9	12020.6
5°	9517.8	9553.3	9633.4	9802.3	9922.4	10064.6	10064.6	10073.5	9953.5	10255.7	10166.8
7.5°	7415.1	7437.3	7530.7	7890.8	7993.0	8264.2	8379.7	8299.7	8059.6	7957.5	8041.9
10°	6401.5	6272.6	6241.5	6285.9	6517.1	6632.7	6730.4	6703.8	6663.8	6583.8	6494.9
12.5°	5725.8	5632.4	5556.9	5450.2	5463.5	5574.7	5650.3	5588.0	5605.8	5623.5	5650.3
15°	4992.3	4925.6	4885.6	4725.6	4707.7	4783.4	4810.0	4845.6	4912.3	4916.7	4885.6
17.5°	4214.3	4156.6	4245.5	4334.3	4272.1	4276.6	4325.4	4356.5	4338.8	4258.7	4218.8
20°	3680.9	3743.1	3832.0	3916.5	3983.1	4023.2	4040.9	3992.1	3934.3	3769.8	3765.3
22.5°	3525.3	3605.3	3680.9	3809.8	3872.0	3974.2	3880.9	3769.8	3689.7	3609.7	3516.4
25°	3409.7	3476.4	3627.5	3676.4	3796.4	3880.9	3814.3	3703.1	3565.3	3449.7	3378.5
27.5°	3325.2	3400.8	3498.6	3631.9	3725.3	3774.2	3707.5	3663.1	3520.8	3383.0	3280.7
30°	3271.9	3351.9	3529.8	3640.9	3720.8	3760.9	3645.3	3592.0	3489.7	3374.1	3285.2
32.5°	3236.3	3307.5	3458.6	3600.8	3654.2	3654.2	3672.0	3609.7	3467.4	3271.9	3196.3
35°	3120.7	3218.5	3343.0	3507.5	3605.3	3663.1	3574.2	3503.0	3409.7	3209.7	3071.8
37.5°	3054.1	3120.7	3280.7	3436.3	3520.8	3583.1	3547.5	3423.0	3298.6	3134.1	3023.0
40°	2982.9	3089.6	3231.9	3378.5	3471.9	3534.1	3507.5	3360.8	3209.7	3054.1	2978.5
42.5°	2934.0	3005.1	3151.8	3316.3	3427.5	3547.5	3467.4	3285.2	3178.6	2965.1	2880.7
45°	2894.0	3009.6	3165.2	3231.9	3347.4	3471.9	3329.7	3218.5	3094.0	2938.5	2867.3
47.5°	2845.1	2951.8	3054.1	3231.9	3285.2	3343.0	3316.3	3138.5	3031.8	2862.9	2814.0
50°	2827.4	2867.3	3054.1	3151.8	3227.4	3285.2	3214.0	3080.8	2978.5	2805.1	2698.4
52.5°	2756.2	2831.8	2951.8	3080.8	3174.1	3245.3	3129.6	3045.2	2907.3	2725.1	2658.4
55°	2667.3	2711.7	2925.2	3058.5	3107.4	3156.3	3111.9	2974.0	2831.8	2645.0	2578.4
57.5°	2551.7	2653.9	2827.4	3014.1	3076.3	3103.0	3031.8	2920.7	2742.8	2578.4	2471.7
60°	2431.7	2538.4	2729.5	2880.7	2942.9	3040.7	2934.0	2867.3	2662.9	2480.6	2365.0
62.5°	2311.7	2431.7	2574.0	2765.1	2818.4	2858.5	2831.8	2738.5	2574.0	2369.4	2227.2
65°	2169.4	2258.3	2436.1	2533.9	2569.5	2662.9	2569.5	2533.9	2387.3	2191.6	2071.6
67.5°	1956.0	2031.6	2187.2	2280.5	2307.2	2347.2	2342.8	2302.7	2138.2	2004.9	1898.2
70°	1711.5	1778.2	1876.0	1987.1	2000.5	2049.3	2004.9	1996.0	1889.3	1707.1	1649.3
72.5°	1373.7	1435.9	1564.8	1613.7	1618.2	1635.9	1613.7	1582.6	1555.9	1364.8	1307.0
75°	1053.6	1089.2	1151.4	1195.8	1195.8	1218.1	1204.7	1173.6	1102.5	982.5	924.7
77.5°	733.5	769.1	849.1	875.7	871.3	880.2	840.2	809.0	702.4	640.2	591.2
80°	533.4	555.6	595.7	613.5	617.9	631.3	582.4	555.6	493.4	422.4	400.1
82.5°	386.8	400.1	404.5	426.8	426.8	404.5	391.2	364.5	320.1	275.6	257.9
85°	160.0	164.5	169.0	195.6	200.1	240.0	222.3	208.9	182.2	155.6	142.3
87.5°	40.0	44.5	57.8	48.9	57.8	57.8	62.2	71.1	71.1	57.8	57.8
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°	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1
2.5°	12122.8	12158.4	12611.9	12669.7	12891.9	13118.7	13576.5	13905.5	14172.2	14345.6	14394.5
5°	10260.2	10486.9	10695.8	11033.8	11340.5	11776.1	12278.4	12900.9	13683.2	14083.3	14243.3
7.5°	8033.0	8299.7	8602.0	8931.0	9380.0	10162.4	10833.7	11553.8	12554.1	12967.5	13594.3
10°	6557.1	6855.0	7255.1	7508.4	8050.8	8797.6	9580.0	10411.3	11367.1	11962.8	12687.4
12.5°	5796.9	6041.4	6410.4	6943.9	7348.4	7833.0	8415.3	9464.4	10833.7	11398.2	11896.1
15°	4956.7	5227.9	5654.6	6245.9	6730.4	7308.4	7961.9	9104.3	10562.5	11433.8	11856.2
17.5°	4263.2	4458.8	4907.8	5419.1	5974.7	6606.0	7544.0	9086.6	10847.0	11962.8	12651.8
20°	3783.2	3809.8	4054.3	4489.9	5245.7	6068.1	7286.2	8997.7	11758.4	12874.1	13745.5
22.5°	3480.8	3454.2	3458.6	3827.6	4356.5	5539.1	6881.7	9299.9	12794.1	14323.4	14910.2
25°	3329.7	3258.5	3214.0	3294.1	3774.2	4912.3	6574.9	9700.1	13910.0	15519.2	16239.4
27.5°	3249.6	3125.2	3036.3	3049.6	3400.8	4596.7	6383.7	9873.4	15016.9	17186.3	17439.6
30°	3218.5	3062.9	2934.0	2889.6	3120.7	4156.6	5974.7	10171.3	16008.2	18102.0	18319.8
32.5°	3107.4	2916.3	2791.8	2751.8	2845.1	3769.8	5681.4	10384.7	16884.0	19097.8	19022.2
35°	2978.5	2818.4	2662.9	2587.3	2653.9	3520.8	5445.7	10282.4	17915.3	19871.3	19831.4
37.5°	2965.1	2756.2	2627.3	2502.8	2498.4	3214.0	5125.6	10380.2	18573.2	21258.4	20711.6
40°	2849.6	2716.2	2547.3	2445.0	2387.3	3058.5	4814.5	10149.0	19537.9	21818.5	21280.6
42.5°	2854.0	2653.9	2507.3	2387.3	2329.4	2831.8	4601.1	10086.8	19875.8	22729.8	21547.3
45°	2782.9	2587.3	2462.8	2320.6	2289.5	2658.4	4396.6	9797.9	20471.5	22774.3	21213.9
47.5°	2711.7	2538.4	2405.0	2236.1	2165.0	2596.2	4236.5	9557.8	20160.3	22356.4	20751.6
50°	2662.9	2462.8	2338.3	2218.3	2018.2	2489.4	4027.6	9500.0	19724.6	21791.8	19893.6
52.5°	2578.4	2400.6	2271.6	2178.3	1858.2	2391.6	3947.6	9837.8	20258.1	21369.5	19644.7
55°	2498.4	2316.1	2151.6	1969.4	1724.9	2133.9	3725.3	10153.5	21036.1	22343.0	20773.8
57.5°	2413.9	2240.5	2062.7	1844.9	1596.0	1867.1	3494.2	10211.3	19578.0	20649.3	19720.2
60°	2302.7	2080.5	1947.2	1662.6	1458.1	1547.0	2769.6	9002.1	15185.8	17244.0	17275.1
62.5°	2178.3	1938.3	1822.6	1489.2	1315.8	1333.7	2258.3	7566.2	12318.5	14274.5	15123.5
65°	2013.8	1782.7	1644.8	1378.1	1213.6	1155.8	1653.7	5543.5	9357.7	11580.5	12545.2
67.5°	1800.4	1582.6	1409.2	1200.3	1084.7	991.4	1129.1	3120.7	5525.7	7775.1	8068.6
70°	1573.7	1387.0	1204.7	1031.3	902.4	835.8	826.9	1382.5	2640.7	4183.2	4761.2
72.5°	1240.3	1106.9	960.3	831.3	746.8	649.1	591.2	573.5	893.6	1702.6	2351.7
75°	889.1	777.9	693.5	609.1	546.8	493.4	449.0	409.0	373.4	426.8	586.8
77.5°	560.1	520.2	453.5	431.2	395.7	382.3	364.5	342.3	315.6	297.9	297.9
80°	377.9	351.2	329.0	324.5	311.2	306.7	311.2	289.0	262.3	240.0	248.9
82.5°	253.4	248.9	244.5	240.0	244.5	248.9	257.9	253.4	231.2	217.8	222.3
85°	151.1	160.0	169.0	177.8	195.6	173.4	142.3	120.0	106.7	97.8	93.4
87.5°	57.8	80.0	71.1	66.7	71.1	66.7	62.2	57.8	48.9	44.5	44.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1	13612.1
2.5°	14719.0	14807.9	14883.5	14865.8	14710.1	14501.2	14416.8	13985.5	13896.6	13838.8
5°	14919.1	15434.8	15545.9	15479.2	15074.7	14563.4	14065.6	13434.3	13065.3	13052.0
7.5°	14550.1	15185.8	15385.8	15537.0	14999.1	14110.0	13256.4	12309.5	12078.4	12096.2
10°	13612.1	14625.7	15119.2	15274.7	14656.8	13887.7	12705.2	11745.0	11251.6	11242.7
12.5°	13092.0	13887.7	14025.5	14243.3	14061.1	13283.1	12385.2	11309.3	10829.2	10820.3
15°	12629.6	13154.2	13194.2	13501.0	13598.8	13074.2	12469.6	11322.6	10935.9	10895.9
17.5°	13034.2	12669.7	12518.5	12558.5	12847.5	13038.6	12958.6	12078.4	11682.8	11460.5
20°	13305.4	12491.8	12034.0	12078.4	12420.7	13118.7	13687.7	13172.0	12545.2	12571.9
22.5°	14030.0	12518.5	11802.8	11753.9	12296.3	13536.5	14510.1	14554.5	13949.9	13803.2
25°	15114.7	12825.2	11731.6	11718.3	12238.4	13985.5	15470.3	16190.5	15572.5	15301.4
27.5°	15986.0	13305.4	11953.9	11998.4	12420.7	14350.1	16288.3	17244.0	16772.8	16439.4
30°	16750.6	13803.2	12265.1	12060.6	12909.7	14541.2	16639.4	18444.3	18066.4	17790.9
32.5°	17066.2	14510.1	12758.6	12420.7	13314.3	14772.3	17368.5	19609.1	19284.6	18604.3
35°	17599.7	14905.7	13025.3	12998.6	14021.1	15328.1	17710.9	20378.1	20244.8	19640.2
37.5°	18026.5	15305.9	13972.2	13678.8	14990.2	16261.6	18262.1	21440.6	21133.9	20849.4
40°	18355.4	16021.6	14856.9	15243.6	16181.6	17110.7	18768.8	21507.3	22392.0	21565.1
42.5°	18053.2	16661.7	16310.5	17235.2	18124.3	18079.8	18826.6	22022.9	22685.4	22254.1
45°	17977.6	17746.4	18608.8	19449.1	19653.5	18884.5	18413.2	21453.9	22596.4	22405.2
47.5°	17795.3	18813.3	20315.9	21685.1	21373.9	19422.4	17919.8	21351.7	22649.8	22307.4
50°	17733.1	19044.5	21578.5	22912.0	22725.3	19889.1	17688.6	20693.7	22272.0	22240.8
52.5°	17728.6	19520.2	22103.0	23578.9	23694.5	20627.1	18004.2	21027.2	22565.3	22827.6
55°	17928.7	19369.0	22036.3	23209.9	23165.4	20298.1	18039.8	21249.5	22925.4	23183.3
57.5°	16910.7	17350.8	18186.5	19115.6	18875.6	16812.9	16110.4	19644.7	21040.5	20853.8
60°	14603.5	13225.3	12282.9	12238.4	11771.6	11127.1	13185.4	17533.0	17533.0	17350.8
62.5°	12789.7	8682.1	7459.5	7112.8	7446.2	8188.6	12718.5	17052.9	16568.4	16359.4
65°	11184.9	6628.3	5392.4	5294.6	5872.5	6992.7	11500.5	14527.9	13674.3	12980.8
67.5°	7197.3	4854.5	4009.8	3836.5	4534.4	5134.6	7655.1	8935.5	8397.6	8126.3
70°	4641.1	3160.7	2231.7	2093.8	2365.0	3165.2	4890.1	5210.1	4427.7	4245.5
72.5°	2196.1	1364.8	782.4	644.6	724.6	1209.2	1933.8	2080.5	1729.3	1582.6
75°	697.9	502.3	320.1	275.6	262.3	311.2	444.6	342.3	248.9	244.5
77.5°	311.2	297.9	253.4	213.4	186.7	155.6	128.9	106.7	111.1	115.6
80°	257.9	235.6	208.9	186.7	155.6	120.0	93.4	71.1	71.1	75.6
82.5°	226.7	204.5	182.2	155.6	133.4	97.8	71.1	48.9	44.5	44.5
85°	97.8	115.6	124.5	133.4	106.7	80.0	48.9	31.1	26.7	26.7
87.5°	40.0	35.6	31.1	26.7	22.2	22.2	17.7	13.4	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)