

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: P532526

Luminaire Tested: **GALN-SA7D-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532526
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-SA7D-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 29500 lumens
Efficiency: N/A
Efficacy: 68.1 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

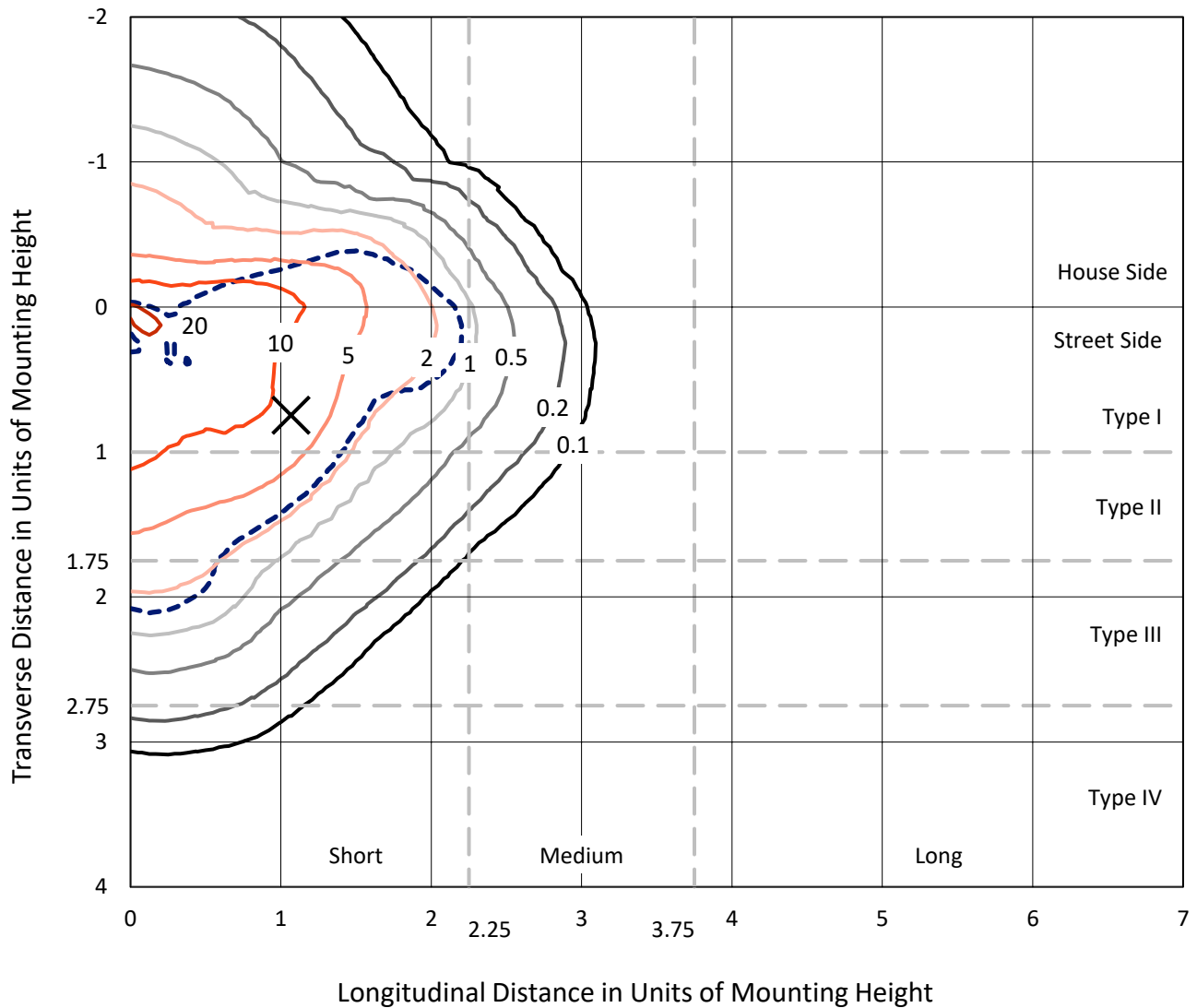
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

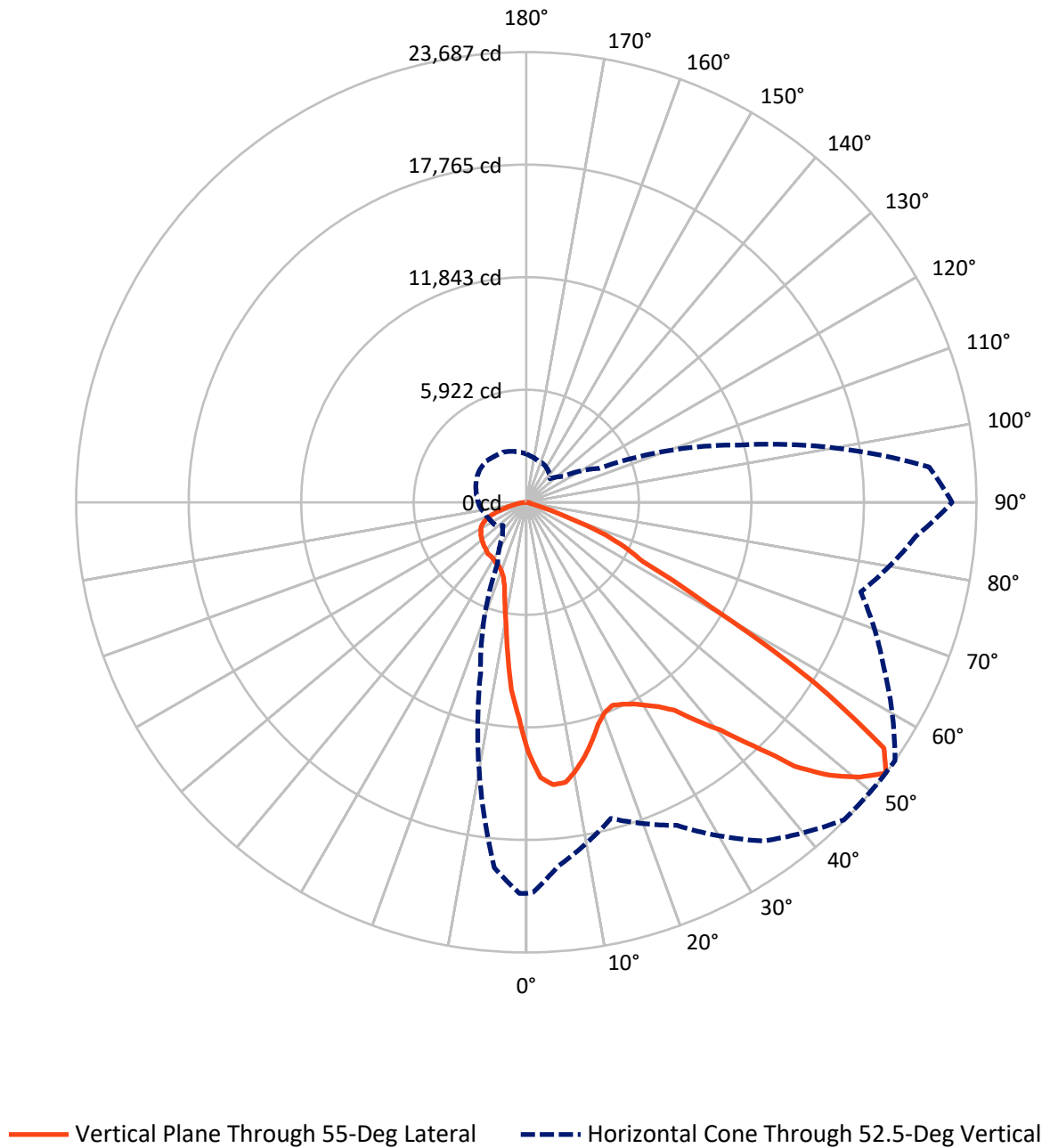
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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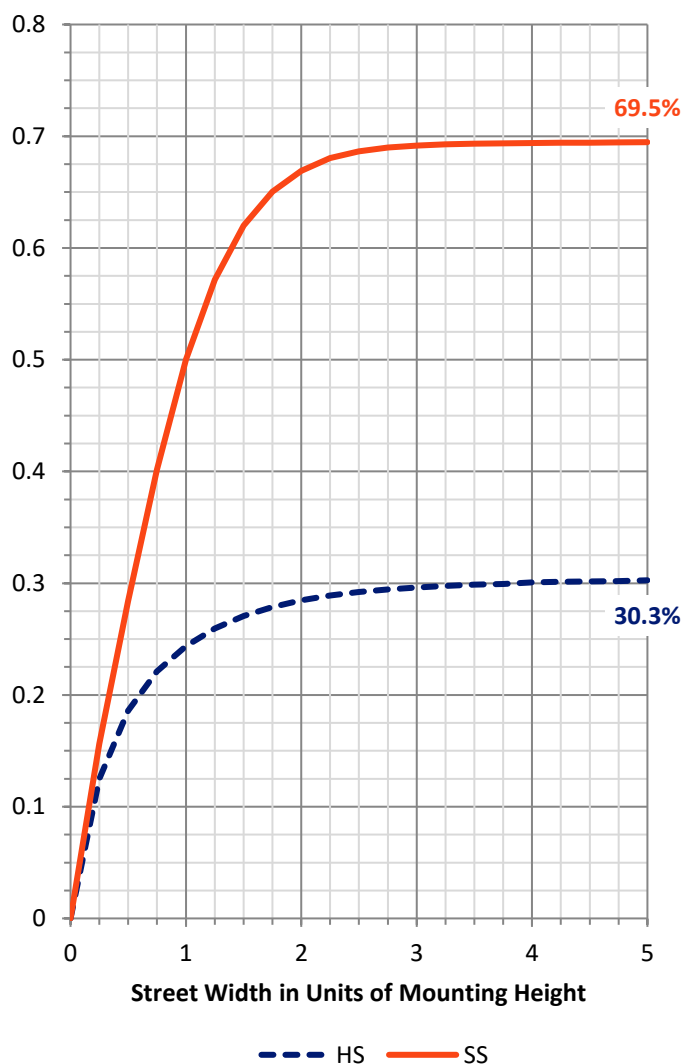
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8999.1	0.0	8999.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	20500.9	0.0	20500.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	29500.0	0.0	29500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1005.4	3.4
10°-20°	2167.7	7.3
20°-30°	3286.9	11.1
30°-40°	4749.0	16.1
40°-50°	6346.0	21.5
50°-60°	7083.5	24.0
60°-70°	3885.6	13.2
70°-80°	840.1	2.8
80°-90°	135.9	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°	29500.0	100.0
0°-180°	29500.0	100.0

Coefficient of Utilization



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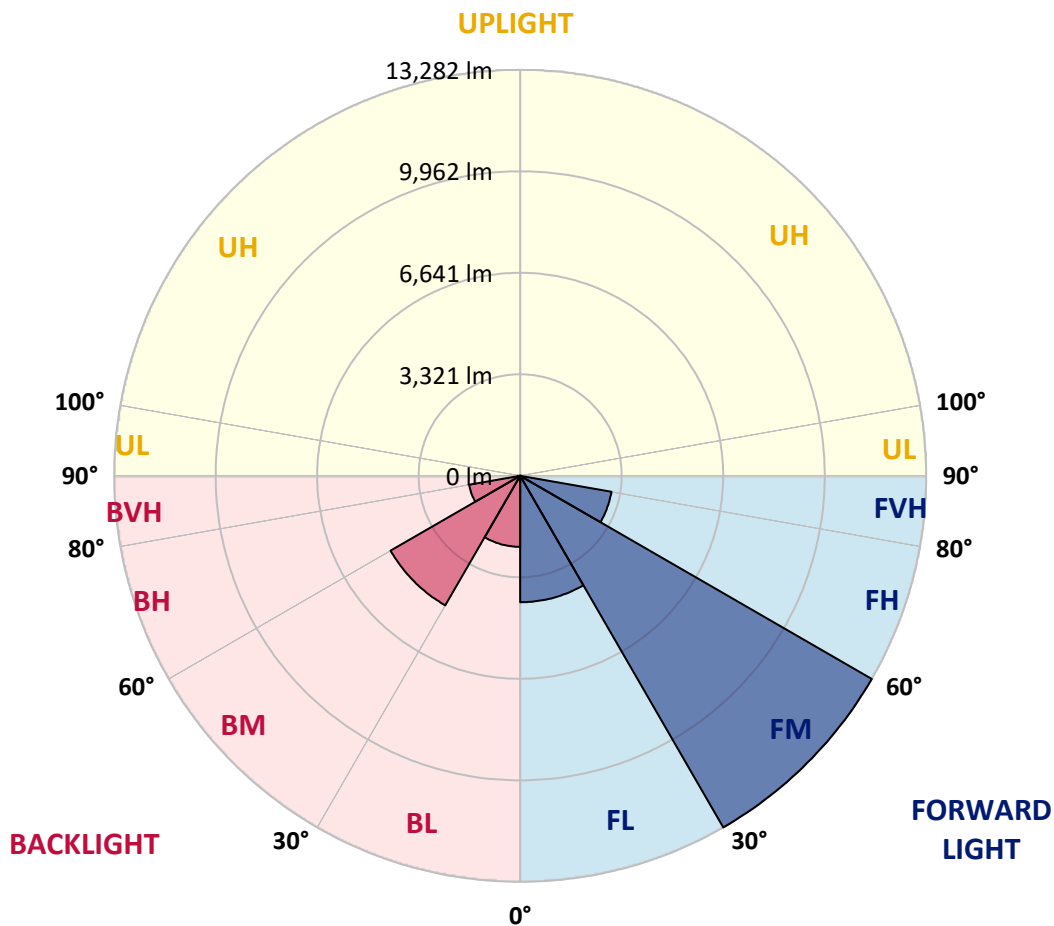
CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4136.4	14.0			
FM (30°-60°)	13282.3	45.0			
FH (60°-80°)	3031.9	10.3			G2/5000
FVH (80°-90°)	50.3	0.2			G1/100
BL (0°-30°)	2323.4	7.9	B3/2500		
BM (30°-60°)	4896.2	16.6	B3/5000		
BH (60°-80°)	1693.8	5.7	B3/2500		G3/2500
BVH (80°-90°)	85.6	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°	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3
2.5°	13809.7	13732.2	13801.1	14128.5	14318.0	14447.2	14529.1	14516.1	14206.0	13904.5	13904.5
5°	13404.8	13305.7	13447.9	14188.8	14934.0	14998.6	15106.3	14929.6	14473.1	13921.7	13232.5
7.5°	12233.2	12306.4	12543.3	13516.8	14486.0	14972.7	15101.9	14878.0	14137.1	13107.6	12095.3
10°	11220.9	11393.2	11940.3	12991.3	13882.9	14516.1	14658.3	14343.8	13758.0	12495.9	11591.4
12.5°	10872.0	10764.3	11371.7	12422.7	13275.6	13615.9	13680.5	13702.0	13305.7	12185.8	11083.1
15°	10828.9	10897.9	11371.7	12168.6	12694.1	12711.3	12819.0	12987.0	13038.7	12396.9	11320.0
17.5°	11449.2	11367.4	11854.1	12487.3	12237.5	11987.7	12013.5	12254.7	12681.2	12577.8	12065.2
20°	12366.7	12551.9	12935.3	12870.7	12198.7	11565.5	11569.8	11798.1	12638.1	13327.3	13103.3
22.5°	13891.5	14072.5	14356.8	13577.1	12198.7	11440.6	11294.2	11604.3	12913.8	14218.9	14274.9
25°	15282.9	15614.5	15692.1	14774.6	12810.4	11556.9	11462.1	11768.0	13189.4	15089.0	15618.8
27.5°	16549.3	16669.9	17010.1	15545.6	13150.7	11634.4	11625.8	12017.8	13538.3	15524.1	16820.6
30°	17548.6	17535.7	17729.5	16032.4	13693.4	12069.5	11651.7	12392.6	13994.9	16243.4	17931.9
32.5°	18229.2	18375.6	18784.8	16708.6	13921.7	12483.0	12155.6	12831.9	14550.6	16583.7	18715.9
35°	19426.6	19680.8	19163.9	17083.4	14645.4	12892.2	12508.9	13430.7	14826.3	16954.2	19676.5
37.5°	20555.2	20361.4	19835.8	17285.8	15114.9	13650.3	13292.8	14589.4	15683.5	17759.6	20314.0
40°	21278.8	21274.5	20339.8	17449.5	15446.5	14809.0	14787.5	15765.3	16734.5	18267.9	21029.0
42.5°	21593.3	21894.8	20546.6	17432.3	16144.3	16213.3	16648.3	17522.7	17479.7	18371.3	21011.8
44°	22024.0	22204.9	20904.1	17471.0	16609.6	17160.9	18186.1	18741.7	18130.1	18315.3	20990.2
45°	22006.8	22019.7	20395.8	17522.7	17005.8	17953.5	18871.0	19810.0	18703.0	18194.7	21274.5
47.5°	21502.8	21356.4	19965.1	17139.4	18242.1	20046.9	20895.5	21464.1	19409.4	17936.3	20921.3
50°	20507.8	20339.8	18918.4	16975.7	18500.5	21347.8	22519.4	22726.1	20051.2	17682.1	20572.4
52.5°	20576.7	20529.3	19215.6	17221.2	18759.0	21757.0	23635.0	23686.7	20779.2	18216.2	20576.7
55°	21808.7	21645.0	20068.4	17527.0	18569.4	21278.8	22924.3	22833.8	20533.6	17893.2	20955.8
57.5°	19956.4	20064.1	18888.2	16316.6	16252.0	17298.7	18022.4	17798.4	17135.1	16148.7	19495.6
60°	16101.3	16407.1	16519.1	13646.0	12263.3	11724.9	11509.5	11113.2	11225.2	13267.0	17126.5
62.5°	13809.7	13792.5	14494.6	12371.0	8033.4	6909.2	6805.8	6896.2	8188.5	13060.2	16773.2
65°	10949.6	11242.5	11457.8	10484.4	6357.8	5130.2	5125.9	5698.8	7085.8	10915.1	13542.6
67.5°	6952.2	7335.6	7602.7	6706.7	4251.5	3652.7	3553.7	4242.8	4910.5	7159.0	8154.0
70°	3919.8	4100.7	4221.3	3868.1	2705.1	1895.3	1783.3	1947.0	2967.8	4634.8	4833.0
72.5°	1511.9	1593.8	1757.4	1770.4	1020.9	611.7	495.4	594.4	1249.2	1835.0	1748.8
75°	232.6	249.8	353.2	422.1	292.9	224.0	236.9	245.5	348.9	473.8	396.3
77.5°	112.0	112.0	107.7	124.9	146.5	159.4	172.3	189.5	206.8	228.3	219.7
80°	73.2	73.2	73.2	86.1	107.7	129.2	146.5	155.1	163.7	180.9	172.3
82.5°	47.4	47.4	47.4	64.6	86.1	107.7	116.3	137.8	155.1	180.9	168.0
85°	25.8	25.8	25.8	43.1	64.6	90.5	86.1	68.9	38.8	4.3	8.6
87.5°	8.6	8.6	8.6	8.6	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°	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3
2.5°	13542.6	13344.5	13327.3	12922.4	12560.5	12383.9	12241.8	11845.5	11931.7	11703.4	11699.1
5°	12887.9	12483.0	11828.3	11289.8	10751.4	10643.7	10174.2	9765.0	9777.9	9485.0	9536.7
7.5°	11712.0	11432.0	10635.1	9790.9	9075.8	8567.5	8123.9	7856.8	7516.5	7400.2	7339.9
10°	10966.8	10622.2	9726.2	8666.6	7865.4	7594.0	7167.6	6930.7	6581.8	6409.5	6288.9
12.5°	10639.4	10135.4	9015.5	7938.6	7404.5	7124.5	6762.7	6332.0	5918.4	5759.1	5539.4
15°	10673.9	10070.8	8808.8	7645.7	7003.9	6461.2	6138.1	5660.0	5237.9	4957.9	4798.5
17.5°	11195.1	10462.8	8903.5	7421.7	6500.0	5819.4	5186.2	4669.3	4333.3	4122.2	4070.5
20°	12427.0	11432.0	9062.9	7059.9	5996.0	5147.4	4367.8	3829.3	3570.9	3566.6	3570.9
22.5°	13452.2	12465.8	9385.9	6844.5	5492.0	4285.9	3510.6	3338.3	3286.6	3394.3	3407.2
25°	14834.9	13628.8	9941.6	6732.6	5026.8	3652.7	3174.6	3110.0	3105.7	3243.5	3247.8
27.5°	16252.0	14645.4	10273.3	6405.2	4553.0	3325.4	2972.1	2959.2	3028.1	3174.6	3161.7
30°	17216.9	15498.2	10872.0	6013.2	3993.0	3036.8	2890.3	2907.5	3002.3	3114.3	3131.5
32.5°	18341.2	16338.2	11027.1	5797.8	3648.4	2795.5	2692.2	2730.9	2851.5	3028.1	3122.9
35°	19629.1	16932.6	11264.0	5504.9	3519.2	2610.3	2558.6	2601.7	2748.2	2864.5	2967.8
37.5°	20581.0	17983.6	11307.1	5276.6	3377.0	2506.9	2425.1	2567.2	2653.4	2817.1	2868.8
40°	21287.5	18746.1	11419.1	5134.5	3265.1	2373.4	2373.4	2468.2	2584.5	2735.2	2838.6
42.5°	21739.7	19301.7	11500.9	5005.3	3049.7	2334.6	2313.1	2407.9	2562.9	2709.4	2756.8
44°	22015.4	19538.6	11419.1	4884.7	2989.4	2287.3	2287.3	2369.1	2489.7	2662.0	2718.0
45°	22084.3	19835.8	11238.2	4880.3	2916.1	2231.3	2222.6	2377.7	2459.6	2670.6	2705.1
47.5°	22351.4	20202.0	11259.7	4742.5	2739.5	2097.7	2248.5	2317.4	2390.6	2575.9	2692.2
50°	22342.8	20430.3	11212.3	4540.1	2610.3	1947.0	2196.8	2274.3	2347.6	2537.1	2584.5
52.5°	22403.1	21283.1	11647.4	4217.0	2377.7	1753.1	2024.5	2196.8	2287.3	2446.6	2545.7
55°	22372.9	21769.9	12078.1	3975.8	2050.3	1636.8	1878.1	2080.5	2209.7	2377.7	2425.1
57.5°	20434.6	19241.4	11177.9	3523.5	1697.1	1499.0	1671.3	1959.9	2123.6	2295.9	2356.2
60°	16695.7	14830.6	9218.0	2593.1	1395.6	1378.4	1555.0	1921.1	1990.0	2140.8	2244.2
62.5°	15429.3	13008.5	7309.8	1981.4	1193.2	1262.1	1434.4	1735.9	1843.6	2028.8	2123.6
65°	12073.8	8640.8	4527.1	1339.6	1051.0	1132.9	1296.5	1520.5	1697.1	1869.4	1981.4
67.5°	7150.4	4721.0	2239.9	939.0	917.5	1003.6	1171.6	1339.6	1542.1	1731.6	1787.6
70°	3893.9	2321.7	956.3	715.0	779.6	857.2	1020.9	1137.2	1331.0	1477.5	1572.2
72.5°	1249.2	706.4	478.1	529.8	594.4	684.9	784.0	926.1	1063.9	1150.1	1227.6
75°	301.5	297.2	340.3	370.4	430.7	499.7	581.5	654.7	762.4	844.3	913.2
77.5°	211.1	228.3	262.8	305.8	327.4	353.2	404.9	460.9	508.3	568.6	611.7
80°	163.7	176.6	202.5	224.0	245.5	267.1	292.9	314.4	344.6	383.4	404.9
82.5°	155.1	163.7	189.5	202.5	193.8	189.5	206.8	215.4	219.7	232.6	245.5
85°	12.9	0.0	8.6	30.2	73.2	107.7	116.3	116.3	112.0	120.6	120.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	17.2	12.9
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°	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3
2.5°	11647.4	11500.9	11556.9	11625.8	11526.8	11298.5	11358.8	11332.9	11565.5	11548.3	11780.9
5°	9765.0	9536.7	9562.6	9898.5	9790.9	9907.2	9674.5	9644.4	9687.5	9709.0	9747.8
7.5°	7473.4	7443.3	7701.7	7986.0	8119.6	7981.7	7753.4	7701.7	7654.4	7559.6	7775.0
10°	6099.4	6108.0	6090.7	6306.1	6456.9	6426.7	6288.9	6271.7	6181.2	6146.7	6267.4
12.5°	5444.6	5328.3	5272.3	5203.4	5319.7	5397.2	5336.9	5293.9	5298.2	5341.2	5358.5
15°	4811.4	4738.2	4617.6	4540.1	4596.1	4557.3	4535.8	4621.9	4600.4	4591.7	4695.1
17.5°	4100.7	4161.0	4152.4	4066.2	4139.5	4109.3	4105.0	4044.7	3962.9	3902.6	3937.0
20°	3631.2	3743.2	3829.3	3833.6	3872.4	3868.1	3803.5	3618.3	3558.0	3545.0	3553.7
22.5°	3463.2	3523.5	3626.9	3773.3	3773.3	3704.4	3626.9	3411.5	3355.5	3295.2	3269.4
25°	3329.7	3446.0	3579.5	3596.7	3665.6	3601.0	3476.1	3368.4	3252.1	3170.3	3170.3
27.5°	3260.7	3390.0	3489.0	3519.2	3614.0	3562.3	3433.0	3295.2	3157.4	3153.1	3079.8
30°	3230.6	3351.2	3415.8	3489.0	3532.1	3450.3	3411.5	3265.1	3127.2	3092.8	2972.1
32.5°	3140.1	3312.4	3433.0	3415.8	3450.3	3415.8	3359.8	3239.2	3084.1	3006.6	2993.7
35°	3036.8	3209.1	3338.3	3428.7	3450.3	3377.0	3342.6	3178.9	2967.8	2929.1	2795.5
37.5°	2980.8	3084.1	3243.5	3390.0	3420.1	3381.4	3265.1	3097.1	2886.0	2842.9	2726.6
40°	2911.8	3045.4	3170.3	3290.9	3381.4	3286.6	3153.1	2989.4	2894.6	2765.4	2730.9
42.5°	2860.2	3010.9	3114.3	3247.8	3351.2	3226.3	3071.2	2959.2	2825.7	2739.5	2640.5
44°	2842.9	2980.8	3049.7	3213.4	3299.5	3204.7	3075.5	2959.2	2804.2	2726.6	2640.5
45°	2782.6	2972.1	3045.4	3191.8	3265.1	3187.5	3023.8	2907.5	2795.5	2700.8	2610.3
47.5°	2722.3	2851.5	2976.5	3092.8	3144.4	3118.6	2980.8	2838.6	2705.1	2649.1	2562.9
50°	2705.1	2834.3	2950.6	3058.3	3118.6	3066.9	2942.0	2804.2	2649.1	2558.6	2485.4
52.5°	2618.9	2778.3	2907.5	2942.0	3019.5	2989.4	2894.6	2743.9	2597.4	2519.9	2459.6
55°	2494.0	2662.0	2838.6	2881.7	2993.7	2946.3	2804.2	2662.0	2537.1	2420.8	2343.3
57.5°	2446.6	2610.3	2782.6	2838.6	2907.5	2830.0	2795.5	2644.8	2446.6	2386.3	2265.7
60°	2326.0	2532.8	2674.9	2804.2	2808.5	2786.9	2726.6	2554.3	2390.6	2278.6	2192.5
62.5°	2231.3	2425.1	2537.1	2657.7	2730.9	2670.6	2610.3	2450.9	2274.3	2149.4	2050.3
65°	2093.4	2270.0	2364.8	2438.0	2519.9	2511.2	2407.9	2291.6	2106.3	2007.3	1912.5
67.5°	1882.4	2037.4	2166.7	2235.6	2287.3	2274.3	2196.8	2115.0	1925.4	1826.4	1757.4
70°	1628.2	1787.6	1869.4	1908.2	1959.9	1985.7	1925.4	1886.7	1718.7	1589.5	1524.8
72.5°	1309.5	1412.8	1533.5	1567.9	1589.5	1606.7	1606.7	1572.2	1399.9	1348.2	1236.2
75°	964.9	1046.7	1137.2	1137.2	1175.9	1180.2	1188.9	1167.3	1038.1	969.2	943.3
77.5°	654.7	715.0	788.3	818.4	844.3	840.0	835.6	775.3	706.4	676.3	650.4
80°	426.4	486.7	521.2	560.0	585.8	581.5	590.1	547.0	516.9	465.2	473.8
82.5°	254.1	301.5	336.0	383.4	383.4	396.3	396.3	383.4	353.2	327.4	327.4
85°	120.6	159.4	180.9	211.1	228.3	232.6	206.8	176.6	146.5	133.5	146.5
87.5°	21.5	30.2	43.1	38.8	47.4	43.1	43.1	43.1	43.1	34.5	38.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3	13159.3
2.5°	11694.7	11910.1	12060.9	12310.7	12741.5	13086.1	13439.3	13702.0	13732.2	13809.7
5°	9889.9	10006.2	10389.6	10889.3	11242.5	11824.0	12198.7	12879.3	13133.4	13404.8
7.5°	7723.3	7912.8	8425.4	8761.4	9536.7	10264.7	11018.5	11858.4	12194.4	12233.2
10°	6512.9	6788.6	7137.5	7675.9	8098.0	8907.8	9846.8	10781.6	11156.3	11220.9
12.5°	5720.3	6073.5	6538.7	6926.4	7331.3	8037.7	8938.0	10092.4	10579.1	10872.0
15°	4957.9	5324.0	5836.6	6375.0	6732.6	7576.8	8636.5	9937.3	10570.5	10828.9
17.5°	4173.9	4514.2	4936.3	5517.9	6237.2	7184.8	8589.1	10454.2	11147.7	11449.2
20°	3502.0	3691.5	4182.5	4781.3	5681.5	6784.2	8606.3	11216.6	12233.2	12366.7
22.5°	3239.2	3282.3	3476.1	4027.5	5013.9	6375.0	8912.1	12297.8	13452.2	13891.5
25°	3036.8	3028.1	3079.8	3450.3	4527.1	6215.7	9213.7	13292.8	14804.7	15282.9
27.5°	2924.8	2838.6	2842.9	3191.8	4182.5	5957.2	9601.3	14434.3	16338.2	16549.3
30°	2868.8	2851.5	2799.8	2942.0	3807.8	5569.5	9665.9	15558.5	17242.8	17548.6
32.5°	2834.3	2666.3	2601.7	2653.4	3454.6	5147.4	9907.2	16299.4	18362.7	18229.2
35°	2662.0	2511.2	2468.2	2519.9	3204.7	4910.5	9747.8	16945.5	19202.6	19426.6
37.5°	2597.4	2463.9	2377.7	2334.6	2972.1	4712.4	9665.9	17940.6	20016.8	20555.2
40°	2537.1	2394.9	2291.6	2248.5	2791.2	4449.6	9640.1	18707.3	20955.8	21278.8
42.5°	2468.2	2377.7	2261.4	2183.9	2571.6	4186.8	9342.9	18944.2	21244.4	21593.3
44°	2446.6	2308.8	2188.2	2162.3	2485.4	4053.3	9282.6	19159.6	21494.2	22024.0
45°	2425.1	2295.9	2158.0	2123.6	2455.3	3980.1	9200.7	19211.3	21907.7	22006.8
47.5°	2364.8	2283.0	2149.4	2054.7	2390.6	3820.7	8955.2	18918.4	21485.6	21502.8
50°	2317.4	2222.6	2084.8	1899.6	2304.5	3687.2	9067.2	18810.7	20469.0	20507.8
52.5°	2265.7	2123.6	2046.0	1727.3	2162.3	3575.2	9304.1	19297.4	20585.3	20576.7
55°	2205.4	2050.3	1860.8	1580.8	1925.4	3433.0	9877.0	20258.0	21662.2	21808.7
57.5°	2110.7	1977.1	1705.8	1451.6	1654.1	3161.7	9691.8	18418.7	19930.6	19956.4
60°	1985.7	1860.8	1546.4	1352.5	1356.8	2494.0	8666.6	14352.4	15726.5	16101.3
62.5°	1865.1	1796.2	1412.8	1210.4	1154.4	1985.7	7327.0	11927.3	13499.6	13809.7
65°	1723.0	1555.0	1296.5	1102.7	990.7	1391.3	5190.5	8912.1	10531.7	10949.6
67.5°	1542.1	1361.2	1141.5	969.2	848.6	930.4	2679.2	5065.6	6706.7	6952.2
70°	1348.2	1180.2	960.6	818.4	684.9	641.8	1180.2	2416.5	3665.6	3919.8
72.5°	1107.0	951.9	766.7	646.1	512.6	443.7	396.3	646.1	1300.9	1511.9
75°	801.2	693.5	577.2	460.9	361.8	284.3	232.6	193.8	215.4	232.6
77.5°	590.1	504.0	426.4	327.4	254.1	202.5	159.4	120.6	116.3	112.0
80°	460.9	409.2	340.3	262.8	198.1	150.8	112.0	81.8	73.2	73.2
82.5°	361.8	336.0	280.0	215.4	163.7	120.6	81.8	56.0	47.4	47.4
85°	137.8	137.8	202.5	176.6	124.9	86.1	56.0	30.2	25.8	25.8
87.5°	34.5	34.5	34.5	34.5	30.2	25.8	25.8	12.9	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)