

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: P532528

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532528
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-SA7D-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 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 III - Short
BUG Rating: B3 - U0 - G3

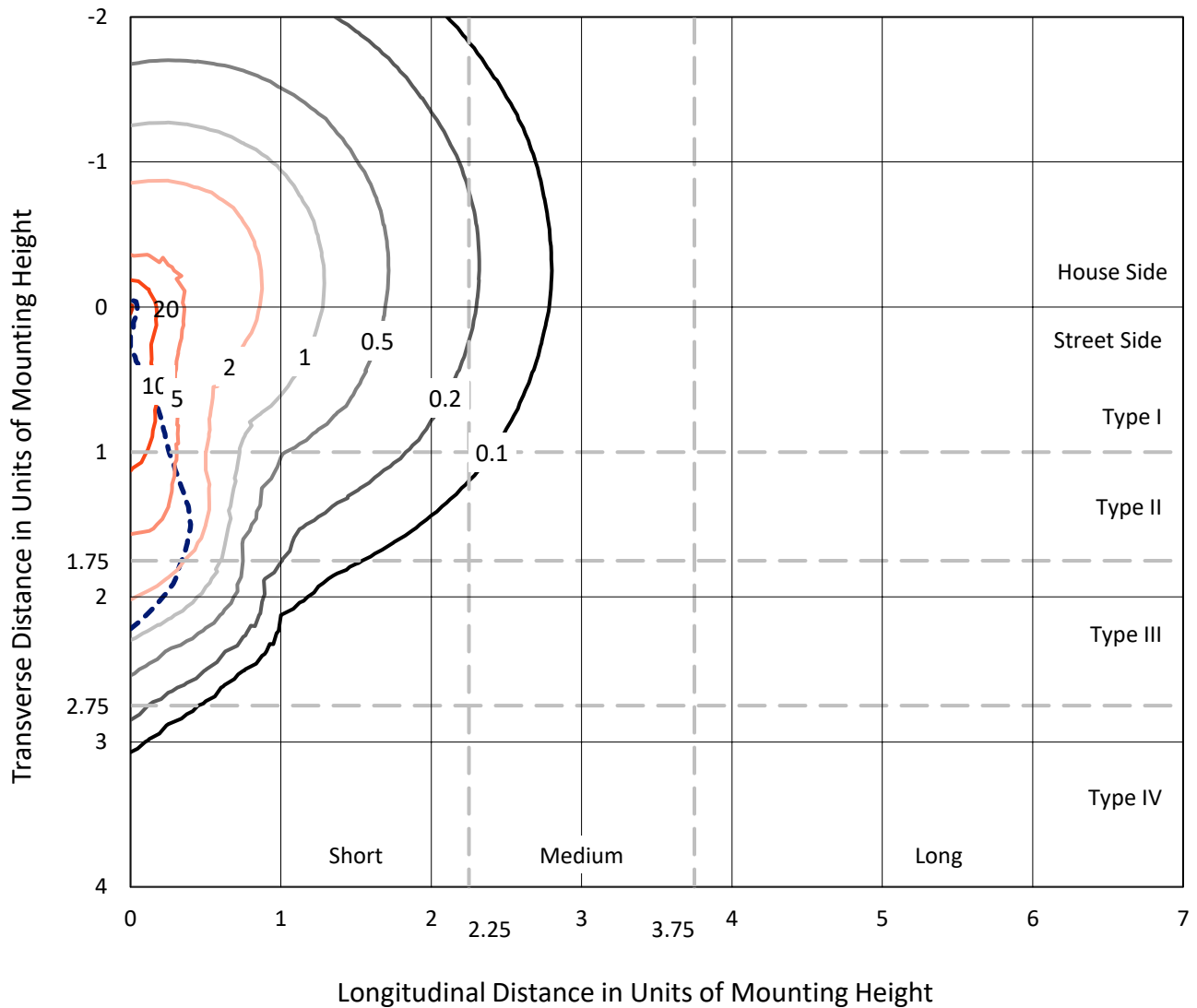
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

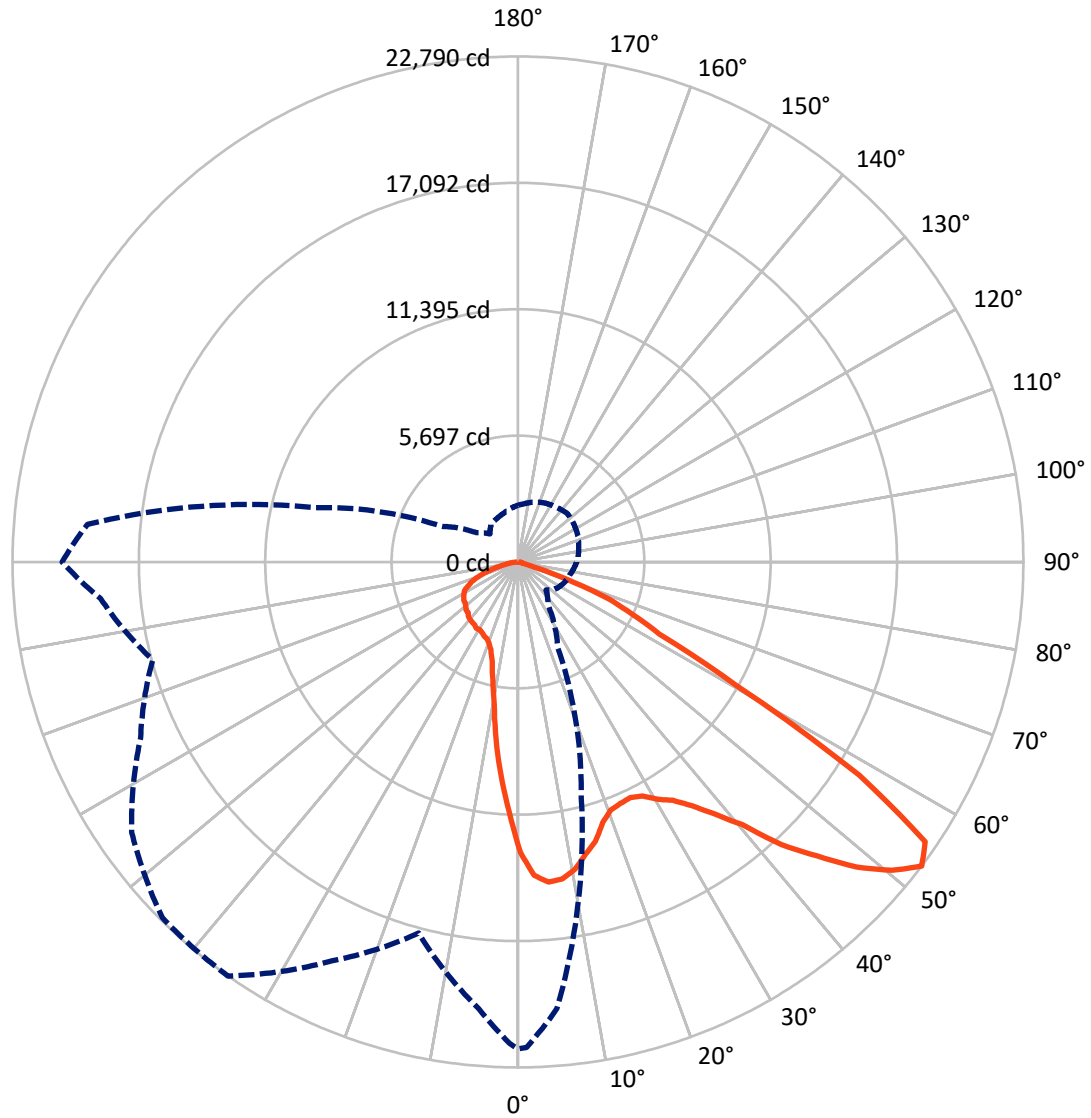
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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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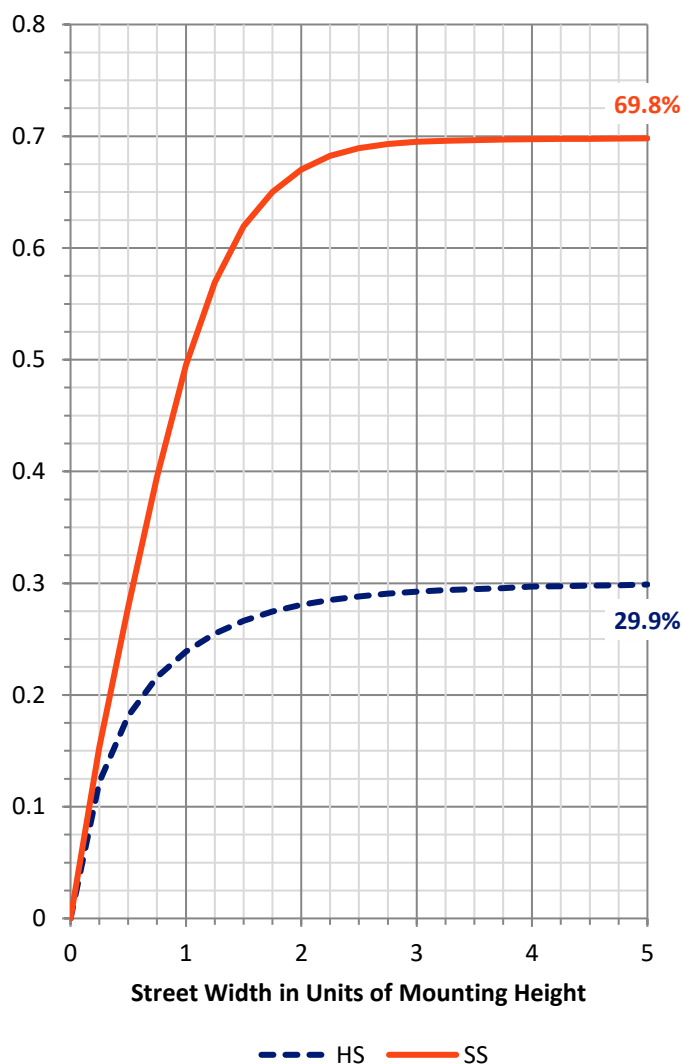
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8893.0	0.0	8893.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	20607.0	0.0	20607.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	29500.0	0.0	29500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.8	3.4
10°-20°	2165.3	7.3
20°-30°	3271.6	11.1
30°-40°	4727.6	16.0
40°-50°	6291.6	21.3
50°-60°	7037.3	23.9
60°-70°	3966.2	13.4
70°-80°	884.1	3.0
80°-90°	157.4	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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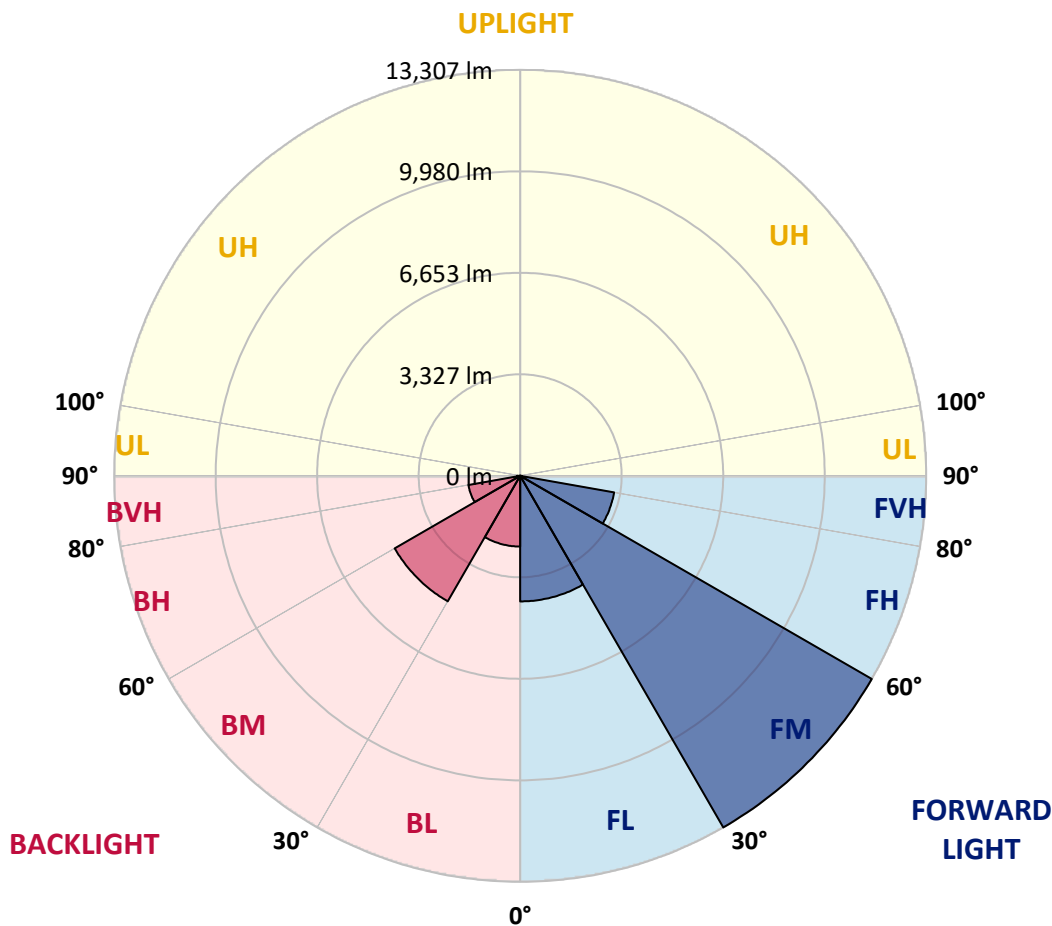
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4116.7	14.0			
FM (30°-60°)	13306.8	45.1			
FH (60°-80°)	3126.6	10.6			G2/5000
FVH (80°-90°)	57.0	0.2			G1/100
BL (0°-30°)	2319.1	7.9	B3/2500		
BM (30°-60°)	4749.8	16.1	B3/5000		
BH (60°-80°)	1723.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	100.4	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°	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3
2.5°	13310.3	13524.1	13293.2	12882.8	12592.0	12326.9	12049.0	11993.4	11630.0	11565.8	11300.8
5°	12553.5	12506.5	12224.3	11685.6	11091.2	10552.5	10154.9	9770.0	9509.2	9205.6	9184.3
7.5°	11634.3	11360.6	11198.1	10381.5	9646.0	8799.4	8436.0	7850.2	7666.4	7392.7	7251.6
10°	10813.3	10612.4	10231.8	9415.2	8389.0	7828.9	7439.8	7123.4	6909.6	6627.4	6272.5
12.5°	10407.1	10325.9	9898.3	8632.7	7871.6	7273.0	6999.4	6691.5	6328.1	5874.9	5699.5
15°	10479.8	10206.2	9881.2	8483.0	7431.2	6854.0	6417.9	6033.1	5567.0	5135.2	4882.9
17.5°	11022.8	10813.3	10163.4	8577.1	7264.5	6430.7	5639.7	5071.0	4652.0	4262.9	4087.6
20°	12091.8	11788.2	11057.0	8696.8	6905.3	5840.6	4934.2	4233.0	3784.0	3578.8	3518.9
22.5°	13276.1	13096.6	11929.3	8966.2	6618.8	5293.4	4185.9	3484.7	3318.0	3262.4	3373.5
25°	14717.1	14251.0	13284.7	9406.6	6396.5	4827.3	3553.1	3164.0	3078.5	3134.1	3262.4
27.5°	15811.6	15687.6	14233.9	9821.3	6092.9	4267.2	3198.2	2941.7	2967.4	3022.9	3142.7
30°	17111.5	16482.9	15153.2	10107.8	5819.3	3882.4	2950.3	2881.8	2907.5	3001.6	3061.4
32.5°	17893.9	17658.8	15730.4	10539.7	5502.9	3548.9	2757.8	2693.7	2732.2	2873.3	3014.4
35°	18890.2	18424.1	16444.5	10650.8	5280.5	3416.3	2621.0	2574.0	2663.8	2762.1	2920.3
37.5°	20053.2	19732.5	17432.1	10573.9	5160.8	3279.5	2505.6	2484.2	2548.3	2685.2	2869.0
40°	20741.6	20643.2	17949.5	10620.9	4972.7	3159.8	2373.0	2398.7	2531.2	2638.1	2817.7
42.5°	21404.3	20762.9	18714.9	10603.8	4853.0	2997.3	2385.9	2355.9	2458.5	2582.5	2753.6
45°	21549.7	20912.6	18894.4	10484.1	4707.6	2839.1	2287.5	2300.3	2424.3	2578.3	2689.4
47.5°	21455.6	20985.3	19228.0	10449.9	4570.8	2727.9	2142.1	2296.1	2368.8	2492.7	2651.0
50°	21391.5	21365.8	19510.2	10612.4	4386.9	2552.6	1966.8	2240.5	2313.2	2437.2	2608.2
52.5°	21955.9	21900.3	20215.6	11039.9	4241.5	2364.5	1787.3	2099.4	2274.7	2394.4	2561.2
55°	22297.9	22054.2	21425.7	11565.8	3997.8	2116.5	1663.3	1924.1	2180.6	2287.5	2458.5
57.5°	20057.4	19890.7	19381.9	10796.2	3587.3	1791.5	1509.3	1744.5	2052.3	2219.1	2394.4
60°	16688.2	16427.3	15123.3	9175.7	2646.7	1393.9	1415.3	1603.4	2018.1	2082.3	2287.5
62.5°	15734.7	15089.0	13314.6	7384.2	2031.0	1197.2	1269.9	1475.1	1838.6	1945.5	2150.7
65°	12485.1	12006.2	9526.3	5331.8	1359.7	1039.0	1158.7	1329.8	1586.3	1795.8	1983.9
67.5°	7816.0	7358.5	5083.8	2522.7	949.2	889.4	1034.7	1214.3	1423.8	1611.9	1821.5
70°	4083.3	3583.1	2347.4	910.7	654.2	726.9	863.7	1034.7	1240.0	1393.9	1556.4
72.5°	1522.2	1235.7	765.4	393.4	453.2	555.8	701.2	825.2	970.6	1158.7	1248.5
75°	235.2	201.0	196.7	239.4	307.9	401.9	500.3	624.3	752.5	872.2	932.1
77.5°	111.2	106.9	119.7	158.2	205.2	286.5	363.4	483.2	585.8	662.7	696.9
80°	72.7	68.4	77.0	106.9	153.9	213.8	290.7	372.0	466.1	530.2	521.6
82.5°	42.8	47.0	47.0	72.7	106.9	153.9	209.5	282.2	346.3	401.9	367.7
85°	25.7	21.4	21.4	42.8	72.7	124.0	175.3	119.7	124.0	124.0	141.1
87.5°	8.6	8.6	8.6	4.3	8.6	8.6	12.8	21.4	25.7	29.9	38.5
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°	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3
2.5°	11292.2	11424.7	11377.7	11211.0	11339.2	11360.6	11275.1	11570.1	11625.7	11535.9	11561.6
5°	9154.3	9188.5	9265.5	9428.0	9543.4	9680.2	9680.2	9688.8	9573.4	9864.1	9778.6
7.5°	7131.9	7153.3	7243.1	7589.4	7687.8	7948.6	8059.7	7982.8	7751.9	7653.6	7734.8
10°	6157.0	6033.1	6003.1	6045.9	6268.2	6379.4	6473.5	6447.8	6409.3	6332.4	6246.8
12.5°	5507.1	5417.3	5344.7	5242.0	5254.9	5361.8	5434.5	5374.6	5391.7	5408.8	5434.5
15°	4801.6	4737.5	4699.0	4545.1	4528.0	4600.7	4626.3	4660.5	4724.7	4729.0	4699.0
17.5°	4053.4	3997.8	4083.3	4168.8	4109.0	4113.3	4160.3	4190.2	4173.1	4096.1	4057.7
20°	3540.3	3600.2	3685.7	3766.9	3831.1	3869.5	3886.6	3839.6	3784.0	3625.8	3621.5
22.5°	3390.7	3467.6	3540.3	3664.3	3724.2	3822.5	3732.7	3625.8	3548.9	3471.9	3382.1
25°	3279.5	3343.6	3489.0	3536.0	3651.5	3732.7	3668.6	3561.7	3429.1	3318.0	3249.6
27.5°	3198.2	3270.9	3365.0	3493.3	3583.1	3630.1	3566.0	3523.2	3386.4	3253.8	3155.5
30°	3146.9	3223.9	3394.9	3501.8	3578.8	3617.3	3506.1	3454.8	3356.4	3245.3	3159.8
32.5°	3112.7	3181.1	3326.5	3463.3	3514.6	3514.6	3531.8	3471.9	3335.1	3146.9	3074.2
35°	3001.6	3095.6	3215.3	3373.5	3467.6	3523.2	3437.7	3369.3	3279.5	3087.1	2954.5
37.5°	2937.4	3001.6	3155.5	3305.1	3386.4	3446.2	3412.0	3292.3	3172.6	3014.4	2907.5
40°	2869.0	2971.6	3108.5	3249.6	3339.3	3399.2	3373.5	3232.5	3087.1	2937.4	2864.7
42.5°	2822.0	2890.4	3031.5	3189.7	3296.6	3412.0	3335.1	3159.8	3057.1	2851.9	2770.7
45°	2783.5	2894.7	3044.3	3108.5	3219.6	3339.3	3202.5	3095.6	2975.9	2826.3	2757.8
47.5°	2736.5	2839.1	2937.4	3108.5	3159.8	3215.3	3189.7	3018.7	2916.0	2753.6	2706.5
50°	2719.4	2757.8	2937.4	3031.5	3104.2	3159.8	3091.4	2963.1	2864.7	2698.0	2595.4
52.5°	2651.0	2723.6	2839.1	2963.1	3052.9	3121.3	3010.1	2928.9	2796.3	2621.0	2556.9
55°	2565.4	2608.2	2813.4	2941.7	2988.7	3035.8	2993.0	2860.5	2723.6	2544.1	2479.9
57.5°	2454.3	2552.6	2719.4	2898.9	2958.8	2984.5	2916.0	2809.2	2638.1	2479.9	2377.3
60°	2338.8	2441.4	2625.3	2770.7	2830.5	2924.6	2822.0	2757.8	2561.2	2385.9	2274.7
62.5°	2223.4	2338.8	2475.6	2659.5	2710.8	2749.3	2723.6	2633.8	2475.6	2279.0	2142.1
65°	2086.6	2172.1	2343.1	2437.2	2471.4	2561.2	2471.4	2437.2	2296.1	2107.9	1992.5
67.5°	1881.3	1954.0	2103.7	2193.4	2219.1	2257.6	2253.3	2214.8	2056.6	1928.4	1825.7
70°	1646.2	1710.3	1804.4	1911.3	1924.1	1971.1	1928.4	1919.8	1817.2	1641.9	1586.3
72.5°	1321.2	1381.1	1505.1	1552.1	1556.4	1573.5	1552.1	1522.2	1496.5	1312.6	1257.1
75°	1013.3	1047.6	1107.4	1150.2	1150.2	1171.5	1158.7	1128.8	1060.4	944.9	889.4
77.5°	705.5	739.7	816.7	842.3	838.0	846.6	808.1	778.2	675.6	615.7	568.7
80°	513.1	534.5	572.9	590.1	594.3	607.2	560.1	534.5	474.6	406.2	384.8
82.5°	372.0	384.8	389.1	410.5	410.5	389.1	376.3	350.6	307.9	265.1	248.0
85°	153.9	158.2	162.5	188.1	192.4	230.9	213.8	201.0	175.3	149.7	136.8
87.5°	38.5	42.8	55.6	47.0	55.6	55.6	59.9	68.4	68.4	55.6	55.6
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°	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3
2.5°	11659.9	11694.1	12130.2	12185.8	12399.6	12617.7	13058.1	13374.5	13631.0	13797.8	13844.8
5°	9868.4	10086.4	10287.4	10612.4	10907.4	11326.4	11809.6	12408.2	13160.7	13545.5	13699.4
7.5°	7726.2	7982.8	8273.5	8589.9	9021.8	9774.3	10420.0	11112.6	12074.7	12472.3	13075.2
10°	6306.7	6593.2	6978.0	7221.7	7743.3	8461.7	9214.2	10013.8	10933.0	11506.0	12202.9
12.5°	5575.6	5810.7	6165.6	6678.7	7067.8	7533.8	8094.0	9103.0	10420.0	10963.0	11441.9
15°	4767.4	5028.3	5438.7	6007.4	6473.5	7029.3	7657.8	8756.7	10159.1	10997.2	11403.4
17.5°	4100.4	4288.6	4720.4	5212.1	5746.6	6353.7	7255.9	8739.6	10432.8	11506.0	12168.7
20°	3638.6	3664.3	3899.5	4318.5	5045.4	5836.4	7007.9	8654.1	11309.3	12382.5	13220.6
22.5°	3347.9	3322.2	3326.5	3681.4	4190.2	5327.6	6618.8	8944.8	12305.5	13776.4	14340.8
25°	3202.5	3134.1	3091.4	3168.3	3630.1	4724.7	6323.8	9329.6	13378.8	14926.6	15619.2
27.5°	3125.6	3005.8	2920.3	2933.1	3270.9	4421.1	6139.9	9496.4	14443.4	16530.0	16773.7
30°	3095.6	2946.0	2822.0	2779.2	3001.6	3997.8	5746.6	9782.9	15396.9	17410.8	17620.3
32.5°	2988.7	2804.9	2685.2	2646.7	2736.5	3625.8	5464.4	9988.1	16239.2	18368.5	18295.8
35°	2864.7	2710.8	2561.2	2488.5	2552.6	3386.4	5237.8	9889.8	17231.2	19112.5	19074.0
37.5°	2851.9	2651.0	2527.0	2407.2	2403.0	3091.4	4929.9	9983.8	17864.0	20446.5	19920.6
40°	2740.7	2612.5	2450.0	2351.7	2296.1	2941.7	4630.6	9761.5	18791.8	20985.3	20467.9
42.5°	2745.0	2552.6	2411.5	2296.1	2240.5	2723.6	4425.4	9701.6	19116.8	21861.8	20724.5
45°	2676.6	2488.5	2368.8	2231.9	2202.0	2556.9	4228.7	9423.7	19689.7	21904.6	20403.8
47.5°	2608.2	2441.4	2313.2	2150.7	2082.3	2497.0	4074.8	9192.8	19390.4	21502.6	19959.1
50°	2561.2	2368.8	2249.0	2133.6	1941.2	2394.4	3873.8	9137.2	18971.4	20959.6	19133.9
52.5°	2479.9	2308.9	2184.9	2095.1	1787.3	2300.3	3796.8	9462.2	19484.5	20553.4	18894.4
55°	2403.0	2227.7	2069.5	1894.1	1659.0	2052.3	3583.1	9765.8	20232.7	21489.8	19980.5
57.5°	2321.7	2155.0	1983.9	1774.4	1535.0	1795.8	3360.7	9821.3	18830.3	19860.8	18967.1
60°	2214.8	2001.0	1872.8	1599.1	1402.4	1488.0	2663.8	8658.4	14605.9	16585.6	16615.5
62.5°	2095.1	1864.2	1753.0	1432.4	1265.6	1282.7	2172.1	7277.3	11848.0	13729.4	14546.0
65°	1936.9	1714.6	1582.0	1325.5	1167.3	1111.7	1590.6	5331.8	9000.4	11138.3	12066.1
67.5°	1731.7	1522.2	1355.4	1154.4	1043.3	953.5	1086.0	3001.6	5314.7	7478.2	7760.4
70°	1513.6	1334.0	1158.7	992.0	868.0	803.8	795.3	1329.8	2539.8	4023.5	4579.3
72.5°	1192.9	1064.7	923.6	799.6	718.3	624.3	568.7	551.6	859.4	1637.6	2261.9
75°	855.1	748.3	667.0	585.8	525.9	474.6	431.8	393.4	359.2	410.5	564.4
77.5°	538.7	500.3	436.1	414.7	380.5	367.7	350.6	329.2	303.6	286.5	286.5
80°	363.4	337.8	316.4	312.1	299.3	295.0	299.3	277.9	252.3	230.9	239.4
82.5°	243.7	239.4	235.2	230.9	235.2	239.4	248.0	243.7	222.3	209.5	213.8
85°	145.4	153.9	162.5	171.0	188.1	166.8	136.8	115.4	102.6	94.1	89.8
87.5°	55.6	77.0	68.4	64.1	68.4	64.1	59.9	55.6	47.0	42.8	42.8
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°	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3	13092.3
2.5°	14156.9	14242.5	14315.1	14298.0	14148.4	13947.4	13866.2	13451.4	13365.9	13310.3
5°	14349.3	14845.3	14952.2	14888.1	14499.0	14007.3	13528.4	12921.3	12566.4	12553.5
7.5°	13994.5	14605.9	14798.3	14943.7	14426.3	13571.2	12750.2	11839.5	11617.2	11634.3
10°	13092.3	14067.1	14541.8	14691.4	14097.1	13357.4	12220.0	11296.5	10821.9	10813.3
12.5°	12592.0	13357.4	13489.9	13699.4	13524.1	12775.9	11912.2	10877.5	10415.7	10407.1
15°	12147.3	12651.9	12690.4	12985.4	13079.5	12574.9	11993.4	10890.3	10518.3	10479.8
17.5°	12536.4	12185.8	12040.5	12078.9	12356.9	12540.7	12463.7	11617.2	11236.6	11022.8
20°	12797.3	12014.8	11574.4	11617.2	11946.4	12617.7	13165.0	12669.0	12066.1	12091.8
22.5°	13494.2	12040.5	11352.1	11305.0	11826.7	13019.6	13956.0	13998.7	13417.2	13276.1
25°	14537.5	12335.5	11283.6	11270.8	11771.1	13451.4	14879.5	15572.2	14977.9	14717.1
27.5°	15375.5	12797.3	11497.4	11540.2	11946.4	13802.1	15666.3	16585.6	16132.3	15811.6
30°	16110.9	13276.1	11796.7	11600.1	12416.7	13985.9	16004.1	17740.0	17376.6	17111.5
32.5°	16414.5	13956.0	12271.3	11946.4	12805.8	14208.2	16705.3	18860.2	18548.1	17893.9
35°	16927.6	14336.5	12527.9	12502.2	13485.6	14742.7	17034.5	19599.9	19471.7	18890.2
37.5°	17338.1	14721.3	13438.6	13156.4	14417.8	15640.6	17564.7	20621.8	20326.8	20053.2
40°	17654.5	15409.7	14289.5	14661.5	15563.7	16457.3	18052.1	20686.0	21536.8	20741.6
42.5°	17363.7	16025.4	15687.6	16577.0	17432.1	17389.4	18107.7	21182.0	21819.0	21404.3
45°	17291.0	17068.7	17898.2	18706.3	18903.0	18163.3	17710.1	20634.7	21733.5	21549.7
47.5°	17115.7	18094.9	19540.1	20857.0	20557.7	18680.7	17235.5	20536.3	21784.8	21455.6
50°	17055.9	18317.2	20754.4	22037.1	21857.5	19129.6	17013.1	19903.5	21421.4	21391.5
52.5°	17051.6	18774.7	21258.9	22678.5	22789.6	19839.4	17316.7	20224.2	21703.6	21955.9
55°	17244.0	18629.3	21194.8	22323.6	22280.8	19523.0	17350.9	20438.0	22049.9	22297.9
57.5°	16264.9	16688.2	17492.0	18385.6	18154.7	16170.8	15495.2	18894.4	20237.0	20057.4
60°	14045.8	12720.3	11813.8	11771.1	11322.1	10702.1	12681.8	16863.5	16863.5	16688.2
62.5°	12301.3	8350.5	7174.7	6841.2	7161.8	7875.9	12232.9	16401.7	15935.6	15734.7
65°	10757.7	6375.1	5186.5	5092.4	5648.2	6725.7	11061.3	13973.1	13152.1	12485.1
67.5°	6922.4	4669.1	3856.7	3690.0	4361.2	4938.5	7362.8	8594.2	8076.9	7816.0
70°	4463.9	3040.0	2146.4	2013.9	2274.7	3044.3	4703.3	5011.2	4258.6	4083.3
72.5°	2112.2	1312.6	752.5	620.0	696.9	1163.0	1859.9	2001.0	1663.3	1522.2
75°	671.3	483.2	307.9	265.1	252.3	299.3	427.6	329.2	239.4	235.2
77.5°	299.3	286.5	243.7	205.2	179.6	149.7	124.0	102.6	106.9	111.2
80°	248.0	226.6	201.0	179.6	149.7	115.4	89.8	68.4	68.4	72.7
82.5°	218.1	196.7	175.3	149.7	128.3	94.1	68.4	47.0	42.8	42.8
85°	94.1	111.2	119.7	128.3	102.6	77.0	47.0	29.9	25.7	25.7
87.5°	38.5	34.2	29.9	25.7	21.4	21.4	17.1	12.8	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)