

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: P648659

Luminaire Tested: **GALN-SA9B-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648659
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-SA9B-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 30081.3 lumens
Efficiency: N/A
Efficacy: 82.6 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

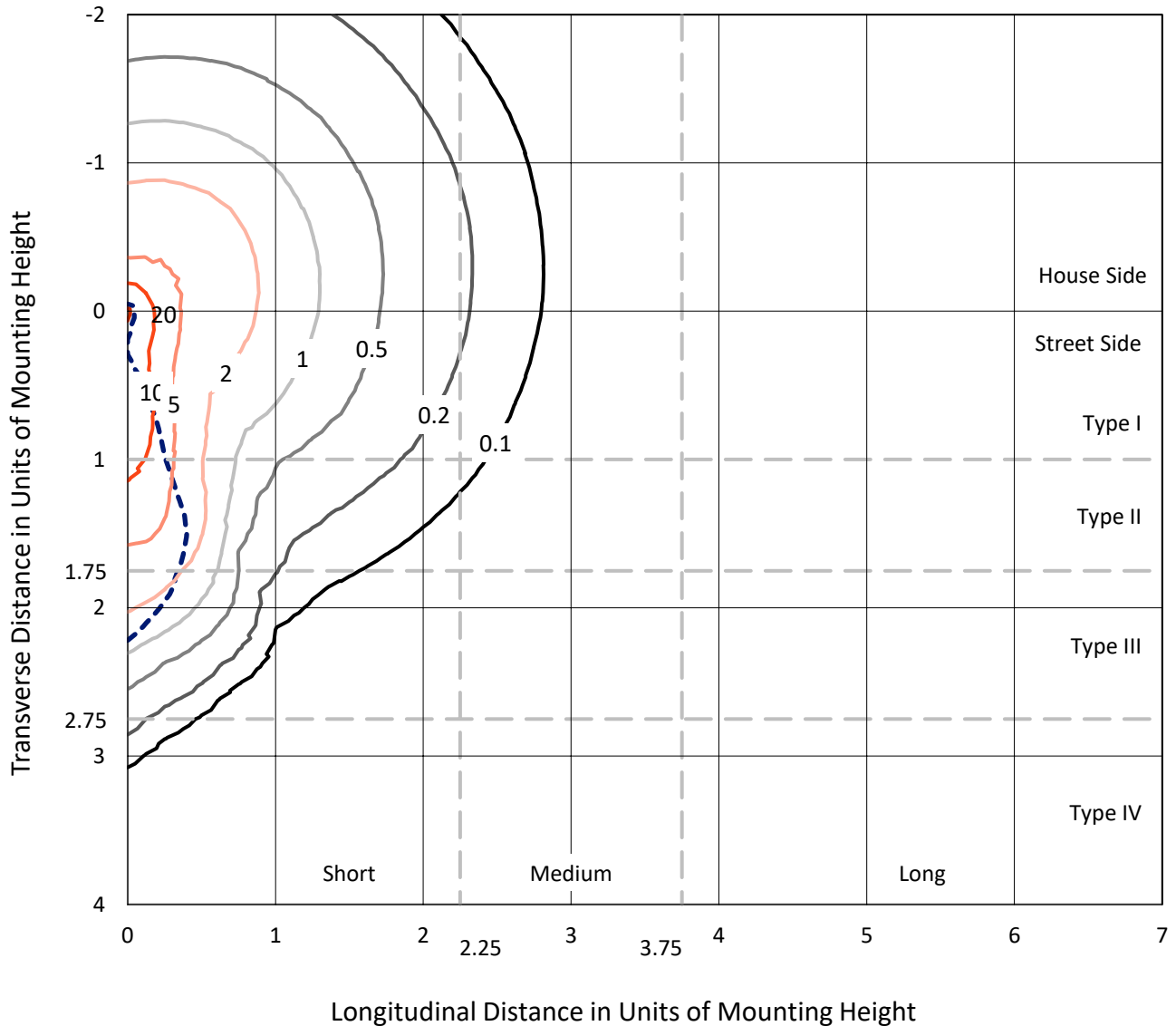
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

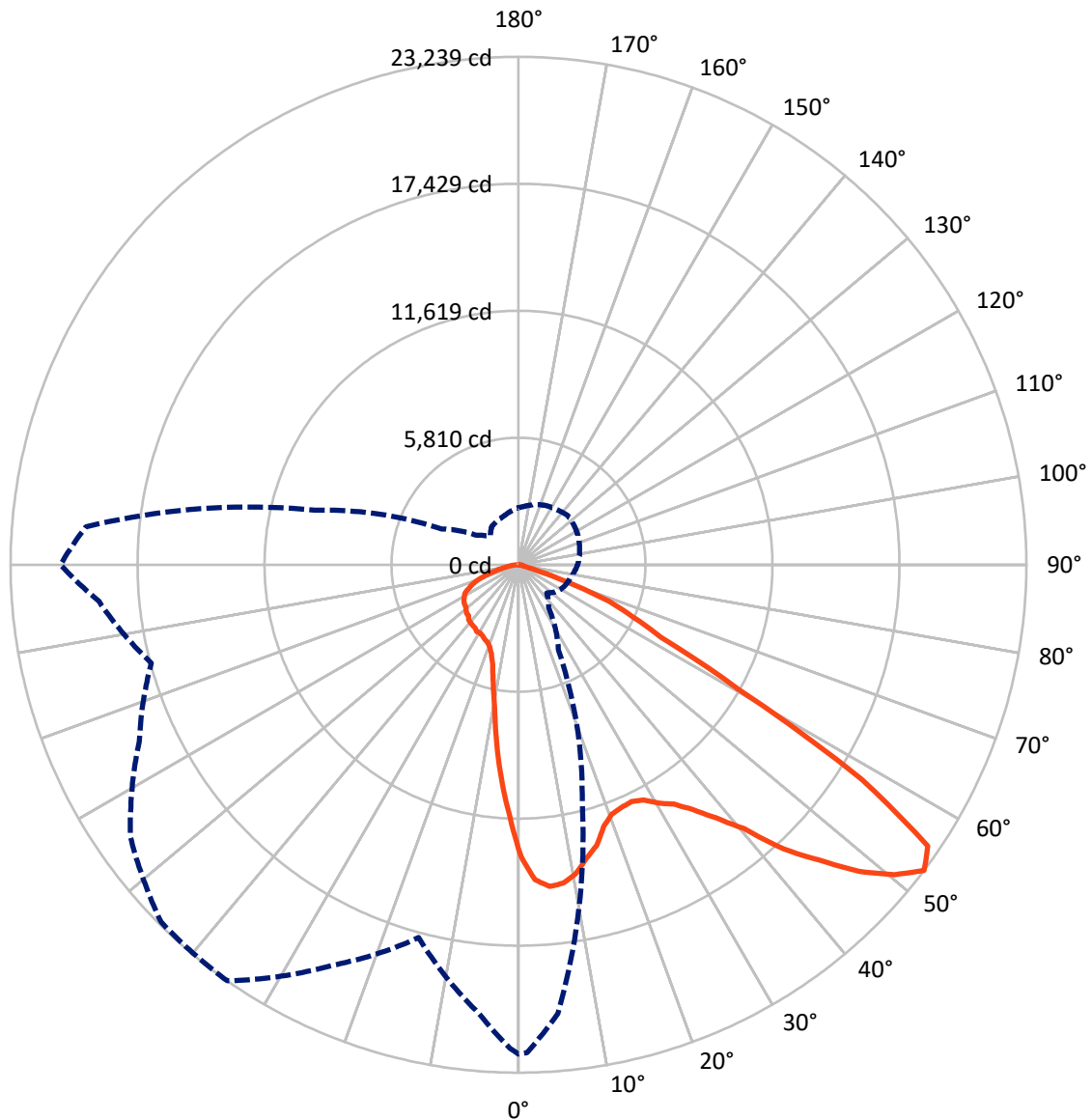
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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	9068.3	0.0	9068.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	21013.1	0.0	21013.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	30081.3	0.0	30081.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1018.5	3.4
10°-20°	2208.0	7.3
20°-30°	3336.1	11.1
30°-40°	4820.8	16.0
40°-50°	6415.6	21.3
50°-60°	7176.0	23.9
60°-70°	4044.3	13.4
70°-80°	901.5	3.0
80°-90°	160.5	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°	30081.3	100.0
0°-180°	30081.3	100.0

Coefficient of Utilization

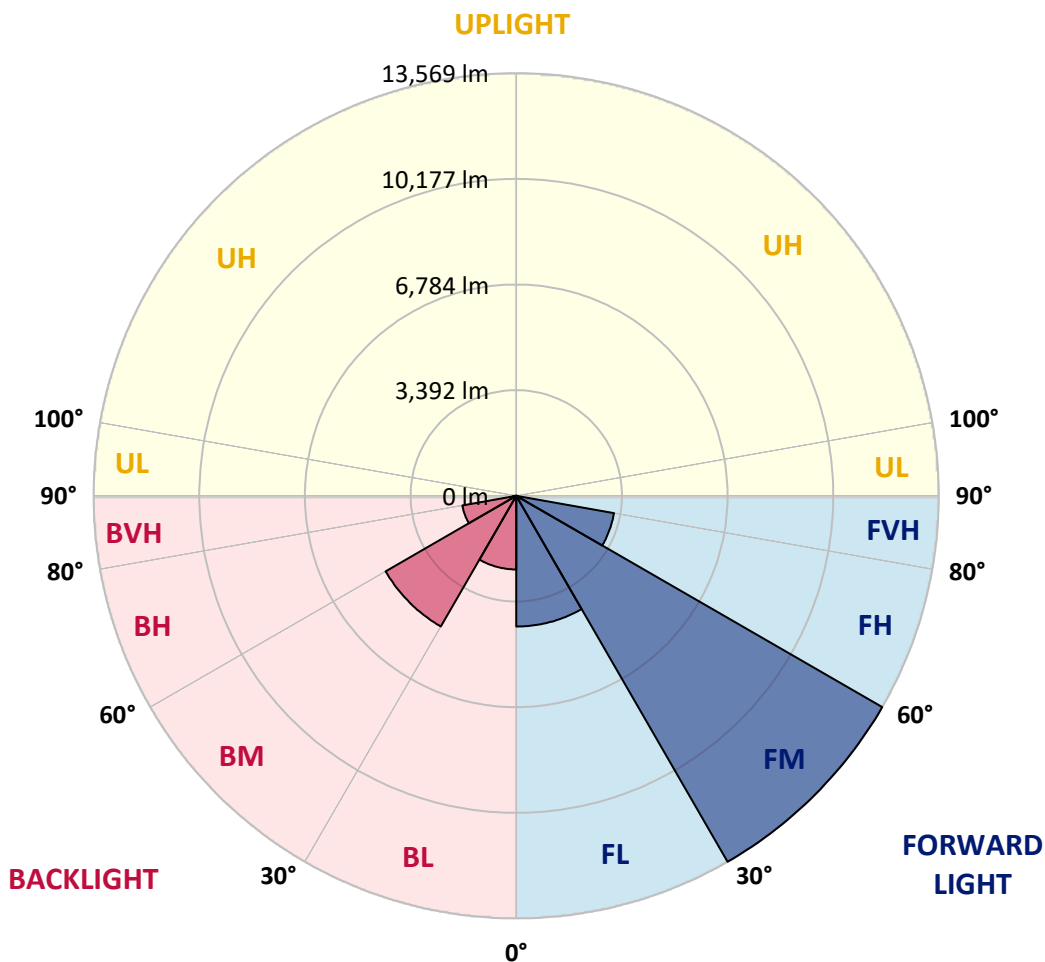


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4197.8	14.0			
FM (30°-60°)	13569.0	45.1			
FH (60°-80°)	3188.2	10.6			G2/5000
FVH (80°-90°)	58.1	0.2			G1/100
BL (0°-30°)	2364.8	7.9	B3/2500		
BM (30°-60°)	4843.4	16.1	B3/5000		
BH (60°-80°)	1757.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	102.4	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°	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2
2.5°	13572.6	13790.6	13555.2	13136.6	12840.2	12569.8	12286.4	12229.8	11859.2	11793.8	11523.4
5°	12800.9	12753.0	12465.2	11915.9	11309.8	10760.5	10354.9	9962.6	9696.6	9387.1	9365.2
7.5°	11863.5	11584.5	11418.8	10586.0	9836.1	8972.9	8602.3	8004.9	7817.5	7538.4	7394.5
10°	11026.4	10821.5	10433.4	9600.7	8554.3	7983.2	7586.3	7263.7	7045.7	6758.0	6396.1
12.5°	10612.2	10529.4	10093.3	8802.8	8026.7	7416.3	7137.3	6823.4	6452.8	5990.6	5811.8
15°	10686.3	10407.2	10075.9	8650.2	7577.6	6989.1	6544.3	6152.0	5676.7	5236.3	4979.1
17.5°	11240.0	11026.4	10363.7	8746.1	7407.6	6557.4	5750.8	5170.9	4743.6	4346.9	4168.1
20°	12330.1	12020.5	11274.9	8868.2	7041.4	5955.7	5031.4	4316.4	3858.5	3649.3	3588.3
22.5°	13537.8	13354.6	12164.4	9142.9	6749.2	5397.7	4268.4	3553.4	3383.3	3326.7	3440.0
25°	15007.1	14531.9	13546.4	9592.0	6522.5	4922.4	3623.2	3226.4	3139.2	3195.9	3326.7
27.5°	16123.2	15996.8	14514.4	10014.9	6212.9	4351.3	3261.3	2999.7	3025.8	3082.5	3204.6
30°	17448.6	16807.7	15451.8	10307.0	5934.0	3958.8	3008.4	2938.6	2964.8	3060.7	3121.7
32.5°	18246.5	18006.7	16040.4	10747.4	5611.3	3618.8	2812.2	2746.8	2786.0	2929.9	3073.8
35°	19262.4	18787.1	16768.5	10860.7	5384.6	3483.6	2672.7	2624.7	2716.3	2816.5	2977.9
37.5°	20448.3	20121.3	17775.7	10782.2	5262.5	3344.1	2554.9	2533.2	2598.5	2738.1	2925.5
40°	21150.2	21050.0	18303.2	10830.2	5070.6	3222.0	2419.8	2445.9	2581.1	2690.1	2873.2
42.5°	21826.0	21172.1	19083.7	10812.8	4948.6	3056.4	2432.9	2402.3	2507.0	2633.5	2807.8
45°	21974.3	21324.7	19266.7	10690.7	4800.3	2895.1	2332.6	2345.6	2472.1	2629.1	2742.5
47.5°	21878.4	21398.8	19606.9	10655.8	4660.8	2781.7	2184.3	2341.3	2415.4	2541.9	2703.2
50°	21813.0	21786.8	19894.6	10821.5	4473.4	2602.9	2005.6	2284.6	2358.8	2485.2	2659.6
52.5°	22388.5	22331.8	20614.0	11257.5	4325.1	2411.1	1822.5	2140.7	2319.5	2441.6	2611.6
55°	22737.3	22488.8	21847.9	11793.8	4076.6	2158.2	1696.1	1962.0	2223.6	2332.6	2507.0
57.5°	20452.7	20282.6	19763.8	11009.0	3658.0	1826.8	1539.1	1778.9	2092.8	2262.8	2441.6
60°	17017.0	16751.0	15421.3	9356.5	2698.8	1421.4	1443.1	1635.0	2057.9	2123.3	2332.6
62.5°	16044.8	15386.3	13577.0	7529.7	2071.0	1220.8	1294.9	1504.2	1874.8	1983.8	2193.1
65°	12731.1	12242.8	9714.1	5436.9	1386.5	1059.5	1181.5	1355.9	1617.5	1831.2	2023.0
67.5°	7970.1	7503.5	5184.0	2572.4	967.9	906.9	1055.1	1238.2	1451.8	1643.8	1857.4
70°	4163.8	3653.6	2393.6	928.6	667.1	741.2	880.7	1055.1	1264.4	1421.4	1587.1
72.5°	1552.1	1260.0	780.4	401.1	462.1	566.8	715.0	841.5	989.7	1181.5	1273.1
75°	239.8	204.9	200.5	244.1	313.9	409.8	510.1	636.6	767.3	889.4	950.5
77.5°	113.4	109.0	122.1	161.3	209.3	292.1	370.6	492.7	597.4	675.8	710.7
80°	74.2	69.8	78.5	109.0	157.0	218.0	296.4	379.3	475.2	540.7	531.9
82.5°	43.6	48.0	48.0	74.2	109.0	157.0	213.6	287.8	353.1	409.8	375.0
85°	26.2	21.8	21.8	43.6	74.2	126.5	178.8	122.1	126.5	126.5	143.9
87.5°	8.7	8.7	8.7	4.4	8.7	8.7	13.1	21.8	26.2	30.5	39.2
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°	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2
2.5°	11514.7	11649.9	11601.9	11431.9	11562.6	11584.5	11497.3	11798.1	11854.8	11763.2	11789.4
5°	9334.7	9369.6	9448.1	9613.8	9731.5	9871.0	9871.0	9879.7	9762.0	10058.5	9971.3
7.5°	7272.4	7294.3	7385.8	7738.9	7839.2	8105.2	8218.6	8140.1	7904.6	7804.4	7887.2
10°	6278.4	6152.0	6121.4	6165.0	6391.7	6505.1	6601.0	6574.9	6535.6	6457.2	6369.9
12.5°	5615.7	5524.1	5450.0	5345.3	5358.4	5467.5	5541.5	5480.5	5497.9	5515.4	5541.5
15°	4896.3	4830.9	4791.6	4634.7	4617.2	4691.3	4717.5	4752.4	4817.8	4822.1	4791.6
17.5°	4133.3	4076.6	4163.8	4251.0	4189.9	4194.3	4242.3	4272.8	4255.4	4176.8	4137.6
20°	3610.1	3671.1	3758.3	3841.2	3906.5	3945.8	3963.2	3915.2	3858.5	3697.2	3692.9
22.5°	3457.5	3535.9	3610.1	3736.5	3797.6	3897.9	3806.2	3697.2	3618.8	3540.3	3448.7
25°	3344.1	3409.5	3557.7	3605.7	3723.4	3806.2	3740.9	3631.9	3496.7	3383.3	3313.6
27.5°	3261.3	3335.4	3431.3	3562.1	3653.6	3701.6	3636.3	3592.6	3453.1	3318.0	3217.7
30°	3209.0	3287.4	3461.8	3570.8	3649.3	3688.6	3575.2	3522.9	3422.6	3309.2	3222.0
32.5°	3174.0	3243.8	3392.0	3531.6	3583.9	3583.9	3601.3	3540.3	3400.8	3209.0	3134.8
35°	3060.7	3156.7	3278.7	3440.0	3535.9	3592.6	3505.4	3435.6	3344.1	3147.9	3012.7
37.5°	2995.3	3060.7	3217.7	3370.3	3453.1	3514.2	3479.3	3357.2	3235.1	3073.8	2964.8
40°	2925.5	3030.2	3169.7	3313.6	3405.1	3466.2	3440.0	3296.1	3147.9	2995.3	2921.2
42.5°	2877.6	2947.4	3091.2	3252.6	3361.6	3479.3	3400.8	3222.0	3117.4	2908.1	2825.3
45°	2838.4	2951.7	3104.3	3169.7	3283.0	3405.1	3265.7	3156.7	3034.5	2881.9	2812.2
47.5°	2790.4	2895.1	2995.3	3169.7	3222.0	3278.7	3252.6	3078.1	2973.5	2807.8	2759.8
50°	2772.9	2812.2	2995.3	3091.2	3165.4	3222.0	3152.3	3021.4	2921.2	2751.1	2646.5
52.5°	2703.2	2777.3	2895.1	3021.4	3113.1	3182.8	3069.4	2986.6	2851.5	2672.7	2607.2
55°	2616.0	2659.6	2868.8	2999.7	3047.6	3095.6	3052.0	2916.8	2777.3	2594.2	2528.8
57.5°	2502.6	2602.9	2772.9	2956.1	3017.1	3043.3	2973.5	2864.5	2690.1	2528.8	2424.2
60°	2384.9	2489.5	2677.0	2825.3	2886.3	2982.2	2877.6	2812.2	2611.6	2432.9	2319.5
62.5°	2267.2	2384.9	2524.4	2711.9	2764.2	2803.5	2777.3	2685.8	2524.4	2323.9	2184.3
65°	2127.6	2214.9	2389.2	2485.2	2520.1	2611.6	2520.1	2485.2	2341.3	2149.5	2031.7
67.5°	1918.4	1992.5	2145.1	2236.6	2262.8	2302.1	2297.7	2258.5	2097.2	1966.3	1861.7
70°	1678.6	1744.0	1839.9	1948.9	1962.0	2010.0	1966.3	1957.7	1853.0	1674.2	1617.5
72.5°	1347.2	1408.3	1534.7	1582.7	1587.1	1604.4	1582.7	1552.1	1526.0	1338.5	1281.8
75°	1033.3	1068.2	1129.2	1172.9	1172.9	1194.6	1181.5	1151.0	1081.2	963.6	906.9
77.5°	719.4	754.3	832.7	859.0	854.6	863.3	824.0	793.5	688.9	627.8	579.9
80°	523.2	545.0	584.3	601.7	606.0	619.1	571.1	545.0	484.0	414.2	392.4
82.5°	379.3	392.4	396.7	418.6	418.6	396.7	383.7	357.5	313.9	270.3	252.9
85°	157.0	161.3	165.7	191.8	196.2	235.4	218.0	204.9	178.8	152.6	139.5
87.5°	39.2	43.6	56.7	48.0	56.7	56.7	61.1	69.8	69.8	56.7	56.7
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°	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2
2.5°	11889.7	11924.5	12369.3	12426.0	12644.0	12866.3	13315.4	13638.1	13899.7	14069.6	14117.6
5°	10062.8	10285.2	10490.1	10821.5	11122.3	11549.6	12042.3	12652.7	13420.0	13812.4	13969.3
7.5°	7878.5	8140.1	8436.6	8759.2	9199.5	9966.9	10625.3	11331.6	12312.6	12718.0	13332.8
10°	6430.9	6723.1	7115.5	7364.0	7895.9	8628.4	9395.8	10211.1	11148.5	11732.7	12443.4
12.5°	5685.4	5925.2	6287.1	6810.3	7207.0	7682.3	8253.4	9282.4	10625.3	11179.0	11667.3
15°	4861.4	5127.3	5545.9	6125.8	6601.0	7167.8	7808.7	8929.3	10359.3	11213.9	11628.1
17.5°	4181.2	4373.1	4813.4	5314.8	5859.8	6478.9	7398.9	8911.8	10638.4	11732.7	12408.5
20°	3710.3	3736.5	3976.3	4403.6	5144.8	5951.3	7146.0	8824.6	11532.2	12626.5	13481.1
22.5°	3413.9	3387.7	3392.0	3753.9	4272.8	5432.5	6749.2	9121.1	12548.0	14047.9	14623.4
25°	3265.7	3195.9	3152.3	3230.7	3701.6	4817.8	6448.4	9513.4	13642.4	15220.7	15927.0
27.5°	3187.1	3065.1	2977.9	2991.0	3335.4	4508.2	6260.9	9683.5	14728.0	16855.7	17104.2
30°	3156.7	3004.1	2877.6	2834.0	3060.7	4076.6	5859.8	9975.7	15700.3	17753.8	17967.5
32.5°	3047.6	2860.1	2738.1	2698.8	2790.4	3697.2	5572.1	10185.0	16559.2	18730.5	18656.4
35°	2921.2	2764.2	2611.6	2537.5	2602.9	3453.1	5341.0	10084.6	17570.8	19489.1	19449.9
37.5°	2908.1	2703.2	2576.8	2454.7	2450.3	3152.3	5027.1	10180.6	18216.0	20849.4	20313.1
40°	2794.8	2663.9	2498.2	2398.0	2341.3	2999.7	4721.9	9953.8	19162.1	21398.8	20871.3
42.5°	2799.1	2602.9	2459.0	2341.3	2284.6	2777.3	4512.6	9892.8	19493.5	22292.6	21132.9
45°	2729.4	2537.5	2415.4	2275.9	2245.4	2607.2	4312.1	9609.4	20077.7	22336.2	20805.8
47.5°	2659.6	2489.5	2358.8	2193.1	2123.3	2546.2	4155.1	9374.0	19772.6	21926.3	20352.4
50°	2611.6	2415.4	2293.3	2175.6	1979.4	2441.6	3950.2	9317.3	19345.3	21372.6	19511.0
52.5°	2528.8	2354.4	2227.9	2136.4	1822.5	2345.6	3871.7	9648.7	19868.5	20958.4	19266.7
55°	2450.3	2271.6	2110.3	1931.5	1691.7	2092.8	3653.6	9958.2	20631.4	21913.3	20374.2
57.5°	2367.5	2197.4	2023.0	1809.4	1565.2	1831.2	3427.0	10014.9	19201.4	20252.1	19340.9
60°	2258.5	2040.5	1909.7	1630.6	1430.1	1517.3	2716.3	8829.0	14893.7	16912.3	16942.9
62.5°	2136.4	1901.0	1787.6	1460.6	1290.5	1308.0	2214.9	7420.7	12081.5	13999.9	14832.7
65°	1975.0	1748.4	1613.2	1351.6	1190.2	1133.6	1621.9	5436.9	9177.8	11357.7	12303.9
67.5°	1765.8	1552.1	1382.2	1177.2	1063.9	972.3	1107.4	3060.7	5419.5	7625.6	7913.4
70°	1543.4	1360.3	1181.5	1011.5	885.1	819.6	811.0	1355.9	2589.9	4102.8	4669.6
72.5°	1216.5	1085.6	941.8	815.3	732.5	636.6	579.9	562.4	876.3	1669.9	2306.4
75°	872.0	763.0	680.2	597.4	536.3	484.0	440.4	401.1	366.2	418.6	575.5
77.5°	549.4	510.1	444.7	422.9	388.1	375.0	357.5	335.8	309.5	292.1	292.1
80°	370.6	344.4	322.7	318.3	305.2	300.8	305.2	283.4	257.2	235.4	244.1
82.5°	248.5	244.1	239.8	235.4	239.8	244.1	252.9	248.5	226.8	213.6	218.0
85°	148.2	157.0	165.7	174.4	191.8	170.1	139.5	117.7	104.6	95.9	91.5
87.5°	56.7	78.5	69.8	65.4	69.8	65.4	61.1	56.7	48.0	43.6	43.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648659

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2	13350.2
2.5°	14435.9	14523.1	14597.2	14579.8	14427.2	14222.3	14139.4	13716.5	13629.3	13572.6
5°	14632.1	15137.8	15246.9	15181.4	14784.7	14283.3	13795.0	13175.9	12814.0	12800.9
7.5°	14270.3	14893.7	15089.9	15238.1	14710.6	13838.6	13001.5	12072.8	11846.1	11863.5
10°	13350.2	14344.3	14828.3	14980.9	14374.9	13620.6	12460.8	11519.1	11035.1	11026.4
12.5°	12840.2	13620.6	13755.7	13969.3	13790.6	13027.6	12146.9	11091.8	10620.9	10612.2
15°	12386.7	12901.2	12940.4	13241.2	13337.2	12822.7	12229.8	11104.9	10725.5	10686.3
17.5°	12783.5	12426.0	12277.7	12317.0	12600.3	12787.8	12709.3	11846.1	11458.0	11240.0
20°	13049.4	12251.5	11802.5	11846.1	12181.8	12866.3	13424.4	12918.6	12303.9	12330.1
22.5°	13760.1	12277.7	11575.7	11527.8	12059.7	13276.2	14230.9	14274.6	13681.6	13537.8
25°	14823.9	12578.6	11506.0	11492.9	12003.0	13716.5	15172.7	15879.1	15273.0	15007.1
27.5°	15678.5	13049.4	11724.0	11767.6	12181.8	14074.0	15975.0	16912.3	16450.2	16123.2
30°	16428.4	13537.8	12029.2	11828.6	12661.4	14261.5	16319.4	18089.6	17719.0	17448.6
32.5°	16738.0	14230.9	12513.1	12181.8	13058.2	14488.2	17034.5	19231.9	18913.6	18246.5
35°	17261.2	14619.0	12774.7	12748.6	13751.4	15033.2	17370.2	19986.2	19855.4	19262.4
37.5°	17679.7	15011.4	13703.4	13415.7	14701.8	15948.8	17910.8	21028.2	20727.3	20448.3
40°	18002.3	15713.4	14571.1	14950.4	15870.3	16781.6	18407.9	21093.6	21961.2	21150.2
42.5°	17705.9	16341.2	15996.8	16903.6	17775.7	17732.1	18464.5	21599.4	22249.0	21826.0
45°	17631.8	17405.1	18250.9	19074.9	19275.5	18521.2	18059.0	21041.2	22161.8	21974.3
47.5°	17453.0	18451.5	19925.1	21268.0	20962.8	19048.7	17575.1	20941.0	22214.1	21878.4
50°	17392.0	18678.2	21163.3	22471.3	22288.3	19506.6	17348.4	20295.8	21843.5	21813.0
52.5°	17387.6	19144.7	21677.8	23125.4	23238.7	20230.3	17657.9	20622.7	22131.3	22388.5
55°	17583.8	18996.4	21612.4	22763.5	22719.8	19907.7	17692.8	20840.7	22484.4	22737.3
57.5°	16585.3	17017.0	17836.7	18747.9	18512.5	16489.4	15800.5	19266.7	20635.8	20452.7
60°	14322.6	12970.9	12046.6	12003.0	11545.3	10913.1	12931.7	17195.8	17195.8	17017.0
62.5°	12543.7	8515.0	7316.0	6976.0	7303.0	8031.1	12473.9	16724.9	16249.7	16044.8
65°	10969.8	6500.7	5288.7	5192.7	5759.5	6858.2	11279.3	14248.4	13411.3	12731.1
67.5°	7058.8	4761.1	3932.7	3762.6	4447.2	5035.8	7507.9	8763.6	8236.0	7970.1
70°	4551.8	3100.0	2188.7	2053.6	2319.5	3104.3	4796.0	5109.9	4342.5	4163.8
72.5°	2153.8	1338.5	767.3	632.2	710.7	1185.9	1896.6	2040.5	1696.1	1552.1
75°	684.5	492.7	313.9	270.3	257.2	305.2	436.0	335.8	244.1	239.8
77.5°	305.2	292.1	248.5	209.3	183.1	152.6	126.5	104.6	109.0	113.4
80°	252.9	231.1	204.9	183.1	152.6	117.7	91.5	69.8	69.8	74.2
82.5°	222.4	200.5	178.8	152.6	130.8	95.9	69.8	48.0	43.6	43.6
85°	95.9	113.4	122.1	130.8	104.6	78.5	48.0	30.5	26.2	26.2
87.5°	39.2	34.8	30.5	26.2	21.8	21.8	17.5	13.1	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)