

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: P533828

Luminaire Tested: **GALN-SA9B-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533828
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 35788 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

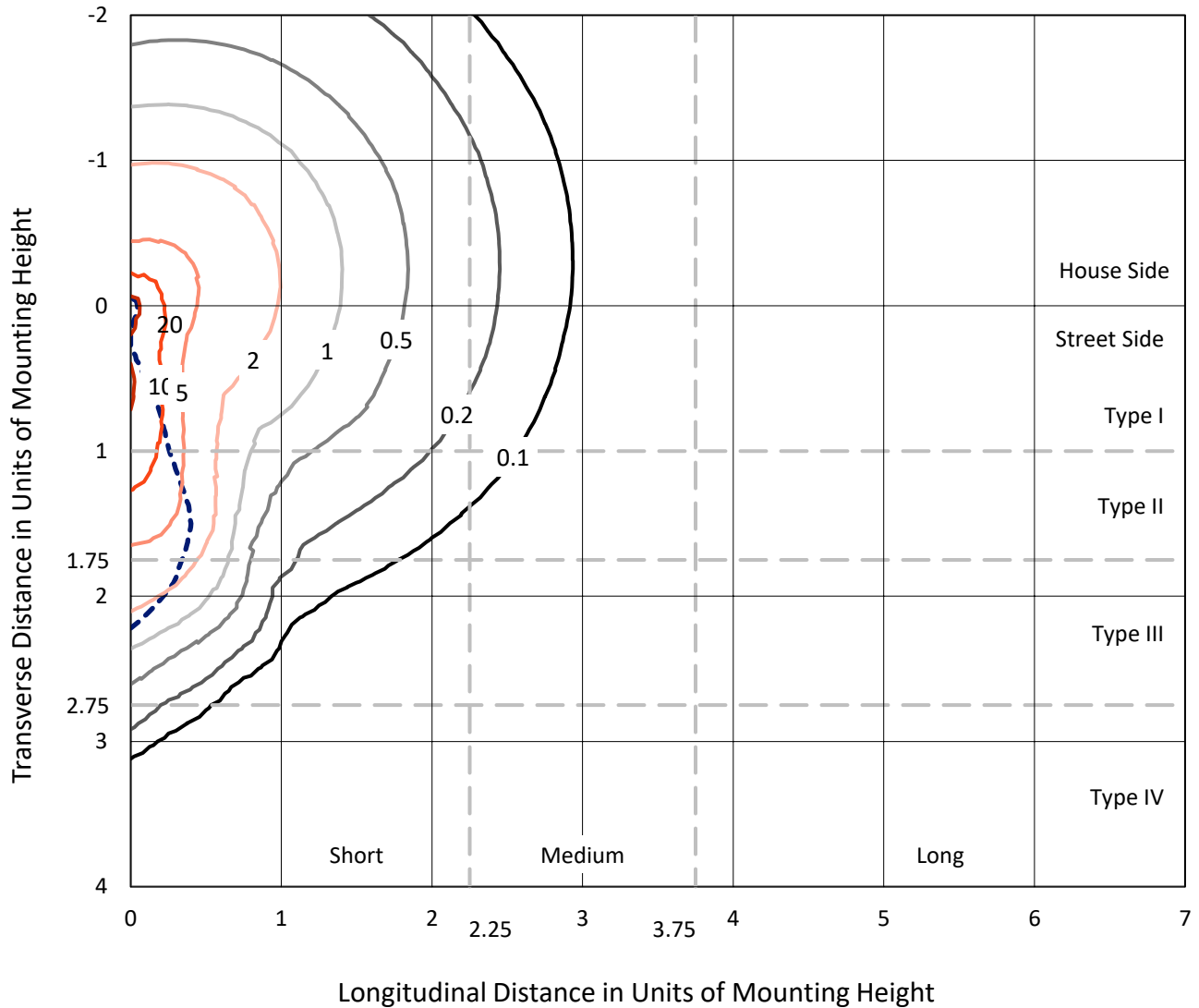
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

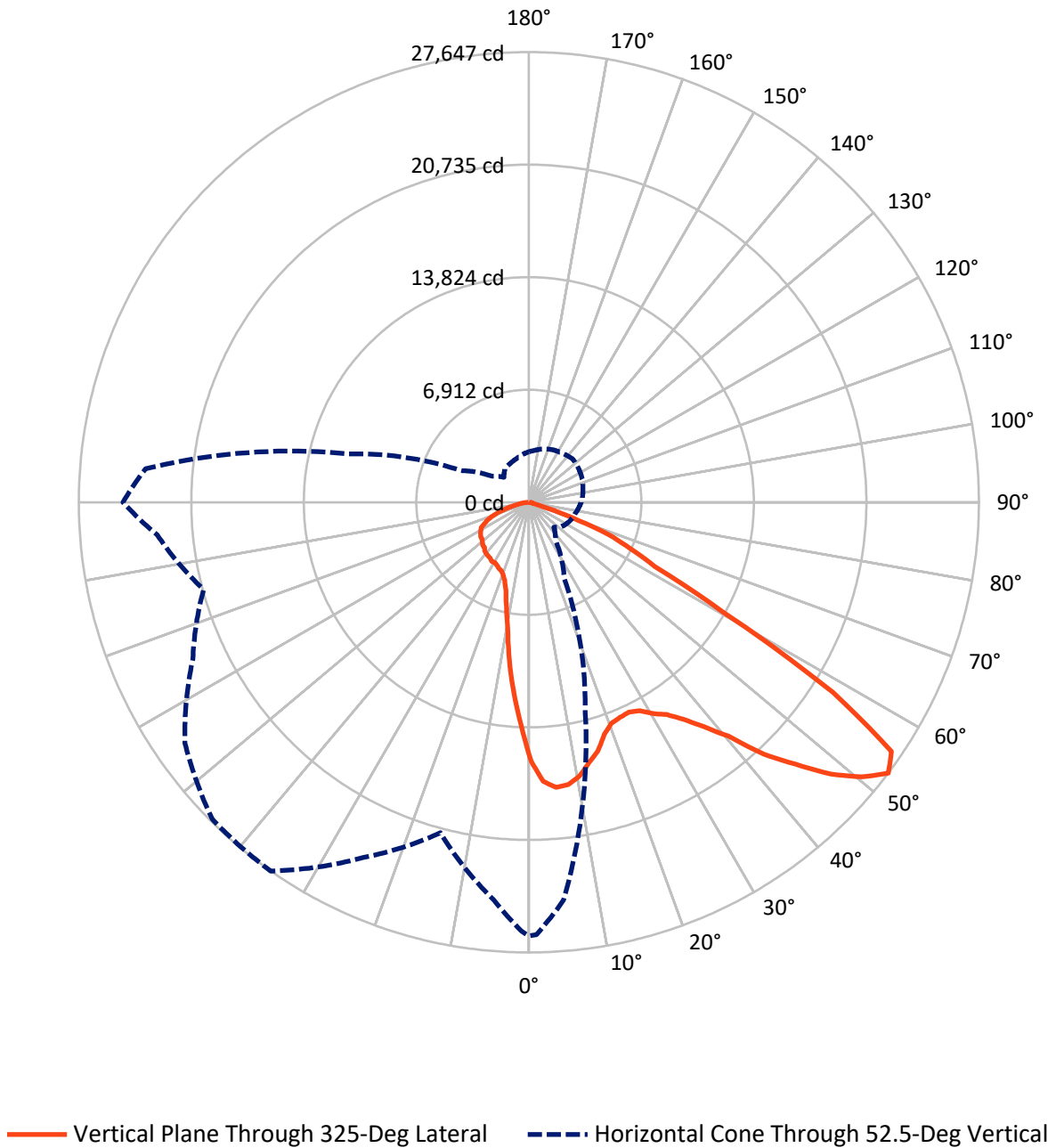
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10788.6	0.0	10788.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	24999.4	0.0	24999.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	35788.0	0.0	35788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1211.7	3.4
10°-20°	2626.9	7.3
20°-30°	3969.0	11.1
30°-40°	5735.3	16.0
40°-50°	7632.7	21.3
50°-60°	8537.3	23.9
60°-70°	4811.6	13.4
70°-80°	1072.6	3.0
80°-90°	191.0	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°	35788.0	100.0
0°-180°	35788.0	100.0

Coefficient of Utilization



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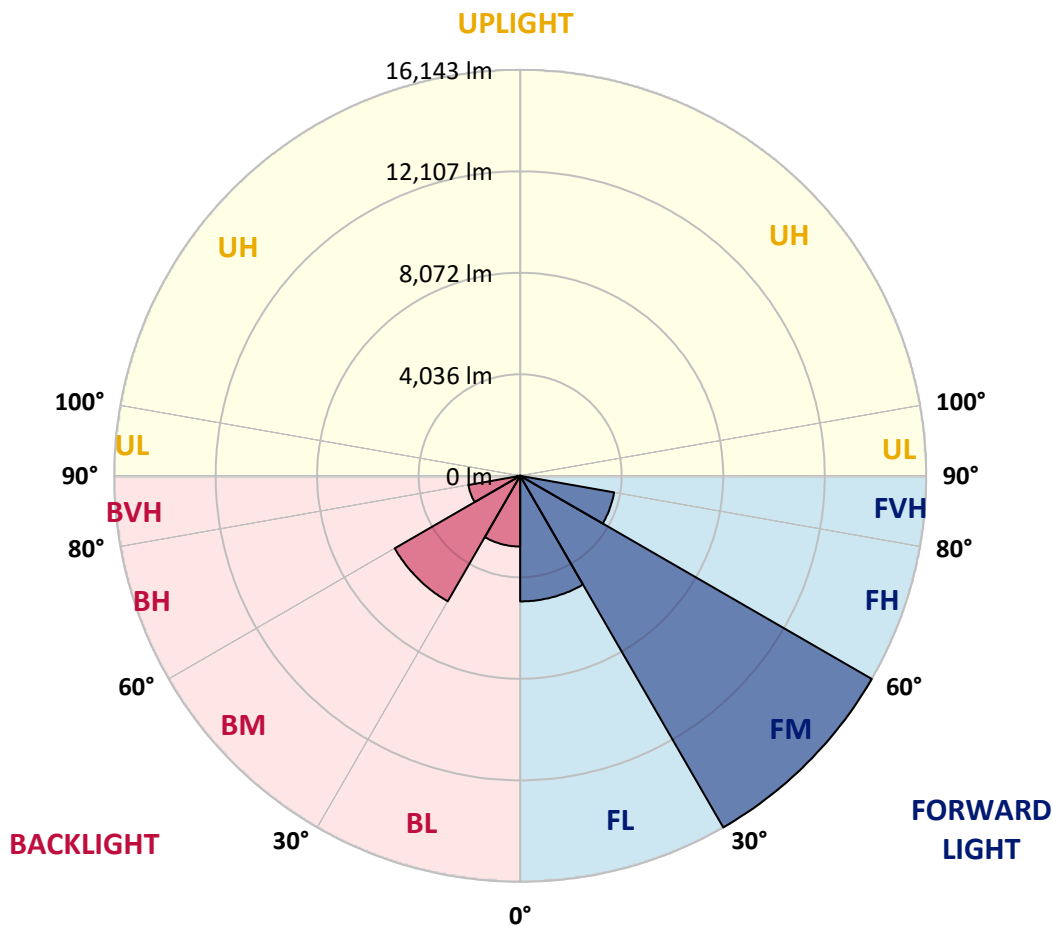
CATALOG NUMBER: GALN-SA9B-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4994.1	14.0			
FM (30°-60°)	16143.1	45.1			
FH (60°-80°)	3793.0	10.6			G2/5000
FVH (80°-90°)	69.2	0.2			G1/100
BL (0°-30°)	2813.4	7.9	B4/5000		
BM (30°-60°)	5762.2	16.1	B4/8500		
BH (60°-80°)	2091.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	121.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9
2.5°	16147.5	16406.8	16126.7	15628.8	15276.0	14954.4	14617.3	14549.8	14108.9	14031.1	13709.5
5°	15229.4	15172.3	14830.0	14176.4	13455.4	12801.8	12319.4	11852.5	11536.1	11167.9	11141.9
7.5°	14114.1	13782.2	13585.0	12594.3	11702.1	10675.1	10234.2	9523.5	9300.5	8968.5	8797.3
10°	13118.2	12874.4	12412.8	11422.0	10177.1	9497.6	9025.6	8641.7	8382.4	8040.0	7609.5
12.5°	12625.4	12526.9	12008.2	10472.8	9549.5	8823.3	8491.3	8117.8	7676.9	7127.1	6914.4
15°	12713.6	12381.6	11987.4	10291.2	9015.2	8314.9	7785.9	7319.0	6753.6	6229.7	5923.7
17.5°	13372.4	13118.2	12329.8	10405.3	8812.9	7801.4	6841.8	6151.9	5643.6	5171.5	4958.9
20°	14669.2	14300.9	13413.9	10550.6	8377.2	7085.6	5985.9	5135.2	4590.6	4341.6	4269.0
22.5°	16106.0	15888.1	14472.0	10877.4	8029.6	6421.6	5078.2	4227.5	4025.2	3957.8	4092.6
25°	17854.0	17288.6	16116.4	11411.6	7759.9	5856.2	4310.5	3838.5	3734.7	3802.2	3957.8
27.5°	19181.9	19031.5	17267.9	11914.8	7391.6	5176.7	3880.0	3568.7	3599.9	3667.3	3812.5
30°	20758.8	19996.3	18383.1	12262.3	7059.7	4709.9	3579.1	3496.1	3527.2	3641.4	3714.0
32.5°	21708.1	21422.8	19083.4	12786.2	6675.8	4305.3	3345.7	3267.9	3314.6	3485.7	3656.9
35°	22916.7	22351.3	19949.6	12921.1	6406.1	4144.5	3179.7	3122.6	3231.6	3350.9	3542.8
37.5°	24327.6	23938.5	21147.9	12827.7	6260.8	3978.5	3039.6	3013.7	3091.5	3257.5	3480.6
40°	25162.7	25043.4	21775.5	12884.8	6032.6	3833.3	2878.8	2910.0	3070.8	3200.4	3418.3
42.5°	25966.7	25188.6	22704.0	12864.0	5887.4	3636.2	2894.4	2858.1	2982.6	3133.0	3340.5
45°	26143.0	25370.2	22921.8	12718.8	5711.0	3444.2	2775.1	2790.7	2941.1	3127.8	3262.7
47.5°	26028.9	25458.3	23326.4	12677.3	5545.0	3309.4	2598.7	2785.5	2873.7	3024.1	3216.0
50°	25951.1	25920.0	23668.8	12874.4	5322.0	3096.7	2386.1	2718.0	2806.2	2956.7	3164.1
52.5°	26635.8	26568.4	24524.7	13393.1	5145.6	2868.5	2168.2	2546.9	2759.5	2904.8	3107.1
55°	27050.8	26755.1	25992.6	14031.1	4849.9	2567.6	2017.8	2334.2	2645.4	2775.1	2982.6
57.5°	24332.7	24130.4	23513.2	13097.5	4352.0	2173.4	1831.1	2116.3	2489.8	2692.1	2904.8
60°	20245.3	19928.9	18346.8	11131.5	3210.8	1691.0	1716.9	1945.2	2448.3	2526.1	2775.1
62.5°	19088.6	18305.3	16152.7	8958.1	2463.9	1452.4	1540.6	1789.6	2230.5	2360.1	2609.1
65°	15146.4	14565.4	11556.9	6468.3	1649.5	1260.5	1405.7	1613.2	1924.4	2178.6	2406.8
67.5°	9482.0	8927.0	6167.5	3060.4	1151.5	1078.9	1255.3	1473.1	1727.3	1955.5	2209.7
70°	4953.7	4346.8	2847.7	1104.9	793.6	881.8	1047.8	1255.3	1504.3	1691.0	1888.1
72.5°	1846.6	1499.1	928.5	477.2	549.8	674.3	850.7	1001.1	1177.5	1405.7	1514.6
75°	285.3	243.8	238.6	290.5	373.5	487.6	606.9	757.3	912.9	1058.2	1130.8
77.5°	134.9	129.7	145.2	191.9	249.0	347.5	440.9	586.1	710.6	804.0	845.5
80°	88.2	83.0	93.4	129.7	186.7	259.4	352.7	451.3	565.4	643.2	632.8
82.5°	51.9	57.1	57.1	88.2	129.7	186.7	254.2	342.3	420.2	487.6	446.1
85°	31.1	25.9	25.9	51.9	88.2	150.4	212.7	145.2	150.4	150.4	171.2
87.5°	10.4	10.4	10.4	5.2	10.4	10.4	15.6	25.9	31.1	36.3	46.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9
2.5°	13699.2	13860.0	13802.9	13600.6	13756.2	13782.2	13678.4	14036.3	14103.8	13994.8	14025.9
5°	11105.6	11147.1	11240.5	11437.6	11577.6	11743.6	11743.6	11754.0	11613.9	11966.7	11862.9
7.5°	8652.1	8678.0	8787.0	9207.1	9326.4	9642.8	9777.7	9684.3	9404.2	9284.9	9383.5
10°	7469.4	7319.0	7282.7	7334.6	7604.3	7739.2	7853.3	7822.2	7775.5	7682.1	7578.4
12.5°	6681.0	6572.1	6483.9	6359.4	6375.0	6504.6	6592.8	6520.2	6540.9	6561.7	6592.8
15°	5825.1	5747.3	5700.6	5513.9	5493.2	5581.3	5612.5	5654.0	5731.8	5736.9	5700.6
17.5°	4917.4	4849.9	4953.7	5057.4	4984.8	4990.0	5047.1	5083.4	5062.6	4969.3	4922.6
20°	4294.9	4367.5	4471.3	4569.8	4647.7	4694.3	4715.1	4658.0	4590.6	4398.7	4393.5
22.5°	4113.4	4206.7	4294.9	4445.4	4518.0	4637.3	4528.3	4398.7	4305.3	4211.9	4103.0
25°	3978.5	4056.3	4232.7	4289.7	4429.8	4528.3	4450.5	4320.9	4160.1	4025.2	3942.2
27.5°	3880.0	3968.1	4082.3	4237.9	4346.8	4403.9	4326.1	4274.2	4108.2	3947.4	3828.1
30°	3817.7	3911.1	4118.6	4248.2	4341.6	4388.3	4253.4	4191.2	4071.9	3937.0	3833.3
32.5°	3776.2	3859.2	4035.6	4201.6	4263.8	4263.8	4284.6	4211.9	4045.9	3817.7	3729.5
35°	3641.4	3755.5	3900.7	4092.6	4206.7	4274.2	4170.4	4087.4	3978.5	3745.1	3584.3
37.5°	3563.5	3641.4	3828.1	4009.6	4108.2	4180.8	4139.3	3994.1	3848.8	3656.9	3527.2
40°	3480.6	3605.0	3771.0	3942.2	4051.1	4123.8	4092.6	3921.5	3745.1	3563.5	3475.4
42.5°	3423.5	3506.5	3677.7	3869.6	3999.3	4139.3	4045.9	3833.3	3708.8	3459.8	3361.2
45°	3376.8	3511.7	3693.2	3771.0	3905.9	4051.1	3885.1	3755.5	3610.2	3428.7	3345.7
47.5°	3319.8	3444.2	3563.5	3771.0	3833.3	3900.7	3869.6	3662.1	3537.6	3340.5	3283.4
50°	3299.0	3345.7	3563.5	3677.7	3765.8	3833.3	3750.3	3594.7	3475.4	3273.1	3148.6
52.5°	3216.0	3304.2	3444.2	3594.7	3703.6	3786.6	3651.7	3553.2	3392.4	3179.7	3101.9
55°	3112.3	3164.1	3413.1	3568.7	3625.8	3682.8	3631.0	3470.2	3304.2	3086.3	3008.5
57.5°	2977.4	3096.7	3299.0	3516.9	3589.5	3620.6	3537.6	3407.9	3200.4	3008.5	2884.0
60°	2837.3	2961.8	3184.9	3361.2	3433.9	3548.0	3423.5	3345.7	3107.1	2894.4	2759.5
62.5°	2697.3	2837.3	3003.3	3226.4	3288.6	3335.3	3304.2	3195.3	3003.3	2764.7	2598.7
65°	2531.3	2635.1	2842.5	2956.7	2998.2	3107.1	2998.2	2956.7	2785.5	2557.2	2417.2
67.5°	2282.3	2370.5	2552.1	2661.0	2692.1	2738.8	2733.6	2686.9	2495.0	2339.4	2214.9
70°	1997.0	2074.8	2189.0	2318.6	2334.2	2391.3	2339.4	2329.0	2204.5	1991.9	1924.4
72.5°	1602.8	1675.4	1825.9	1882.9	1888.1	1908.9	1882.9	1846.6	1815.5	1592.4	1525.0
75°	1229.3	1270.8	1343.5	1395.3	1395.3	1421.3	1405.7	1369.4	1286.4	1146.4	1078.9
77.5°	855.9	897.4	990.7	1021.9	1016.7	1027.0	980.4	944.1	819.6	746.9	689.9
80°	622.5	648.4	695.1	715.8	721.0	736.6	679.5	648.4	575.8	492.8	466.8
82.5°	451.3	466.8	472.0	498.0	498.0	472.0	456.5	425.3	373.5	321.6	300.9
85°	186.7	191.9	197.1	228.2	233.4	280.1	259.4	243.8	212.7	181.5	166.0
87.5°	46.7	51.9	67.4	57.1	67.4	67.4	72.6	83.0	83.0	67.4	67.4
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°	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9
2.5°	14145.3	14186.7	14715.8	14783.3	15042.6	15307.2	15841.4	16225.3	16536.5	16738.8	16795.9
5°	11971.9	12236.4	12480.2	12874.4	13232.3	13740.7	14326.8	15053.0	15965.9	16432.8	16619.5
7.5°	9373.1	9684.3	10037.1	10420.9	10944.8	11857.7	12641.0	13481.3	14648.4	15130.8	15862.2
10°	7651.0	7998.5	8465.4	8761.0	9393.9	10265.3	11178.2	12148.2	13263.4	13958.5	14804.0
12.5°	6764.0	7049.3	7479.8	8102.3	8574.3	9139.7	9819.2	11043.4	12641.0	13299.8	13880.7
15°	5783.6	6100.0	6598.0	7287.9	7853.3	8527.6	9290.1	10623.2	12324.6	13341.2	13834.0
17.5°	4974.4	5202.7	5726.6	6323.1	6971.5	7708.0	8802.5	10602.5	12656.6	13958.5	14762.5
20°	4414.2	4445.4	4730.6	5239.0	6120.8	7080.4	8501.7	10498.7	13719.9	15021.9	16038.5
22.5°	4061.5	4030.4	4035.6	4466.1	5083.4	6463.1	8029.6	10851.4	14928.5	16712.9	17397.6
25°	3885.1	3802.2	3750.3	3843.6	4403.9	5731.8	7671.7	11318.3	16230.5	18108.2	18948.5
27.5°	3791.8	3646.5	3542.8	3558.4	3968.1	5363.5	7448.7	11520.6	17522.1	20053.4	20349.0
30°	3755.5	3573.9	3423.5	3371.6	3641.4	4849.9	6971.5	11868.1	18678.8	21121.9	21376.1
32.5°	3625.8	3402.7	3257.5	3210.8	3319.8	4398.7	6629.1	12117.1	19700.6	22283.8	22195.6
35°	3475.4	3288.6	3107.1	3018.9	3096.7	4108.2	6354.2	11997.8	20904.1	23186.4	23139.7
37.5°	3459.8	3216.0	3065.6	2920.3	2915.2	3750.3	5980.7	12111.9	21671.8	24804.8	24166.8
40°	3324.9	3169.3	2972.2	2852.9	2785.5	3568.7	5617.6	11842.2	22797.4	25458.3	24830.7
42.5°	3330.1	3096.7	2925.5	2785.5	2718.0	3304.2	5368.7	11769.6	23191.6	26521.7	25141.9
45°	3247.1	3018.9	2873.7	2707.7	2671.4	3101.9	5130.1	11432.4	23886.6	26573.6	24752.9
47.5°	3164.1	2961.8	2806.2	2609.1	2526.1	3029.3	4943.3	11152.3	23523.5	26086.0	24213.4
50°	3107.1	2873.7	2728.4	2588.4	2354.9	2904.8	4699.5	11084.9	23015.2	25427.2	23212.3
52.5°	3008.5	2801.0	2650.6	2541.7	2168.2	2790.7	4606.2	11479.1	23637.7	24934.4	22921.8
55°	2915.2	2702.5	2510.6	2297.9	2012.6	2489.8	4346.8	11847.4	24545.4	26070.4	24239.4
57.5°	2816.6	2614.3	2406.8	2152.7	1862.2	2178.6	4077.1	11914.8	22844.0	24094.1	23010.0
60°	2686.9	2427.6	2272.0	1940.0	1701.4	1805.1	3231.6	10503.9	17719.2	20120.8	20157.1
62.5°	2541.7	2261.6	2126.7	1737.7	1535.4	1556.1	2635.1	8828.5	14373.5	16655.8	17646.6
65°	2349.8	2080.0	1919.2	1608.0	1416.1	1348.6	1929.6	6468.3	10918.9	13512.4	14638.0
67.5°	2100.8	1846.6	1644.3	1400.5	1265.7	1156.7	1317.5	3641.4	6447.6	9072.3	9414.6
70°	1836.2	1618.4	1405.7	1203.4	1053.0	975.2	964.8	1613.2	3081.1	4881.1	5555.4
72.5°	1447.2	1291.6	1120.4	970.0	871.4	757.3	689.9	669.1	1042.6	1986.7	2744.0
75°	1037.4	907.7	809.2	710.6	638.0	575.8	523.9	477.2	435.7	498.0	684.7
77.5°	653.6	606.9	529.1	503.1	461.7	446.1	425.3	399.4	368.3	347.5	347.5
80°	440.9	409.8	383.8	378.7	363.1	357.9	363.1	337.2	306.0	280.1	290.5
82.5°	295.7	290.5	285.3	280.1	285.3	290.5	300.9	295.7	269.7	254.2	259.4
85°	176.4	186.7	197.1	207.5	228.2	202.3	166.0	140.1	124.5	114.1	108.9
87.5°	67.4	93.4	83.0	77.8	83.0	77.8	72.6	67.4	57.1	51.9	51.9
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: P533828

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9	15882.9
2.5°	17174.5	17278.3	17366.4	17345.7	17164.2	16920.4	16821.8	16318.7	16214.9	16147.5
5°	17407.9	18009.6	18139.3	18061.5	17589.5	16993.0	16412.0	15675.4	15244.9	15229.4
7.5°	16977.4	17719.2	17952.6	18129.0	17501.3	16463.9	15468.0	14363.1	14093.4	14114.1
10°	15882.9	17065.6	17641.4	17822.9	17101.9	16204.5	14824.8	13704.3	13128.6	13118.2
12.5°	15276.0	16204.5	16365.3	16619.5	16406.8	15499.1	14451.3	13196.0	12635.8	12625.4
15°	14736.6	15348.7	15395.3	15753.3	15867.4	15255.3	14549.8	13211.6	12760.3	12713.6
17.5°	15208.6	14783.3	14606.9	14653.6	14990.8	15213.8	15120.4	14093.4	13631.7	13372.4
20°	15525.0	14575.8	14041.5	14093.4	14492.8	15307.2	15971.1	15369.4	14638.0	14669.2
22.5°	16370.5	14606.9	13771.8	13714.7	14347.5	15794.8	16930.7	16982.6	16277.2	16106.0
25°	17636.2	14964.8	13688.8	13673.2	14280.1	16318.7	18051.1	18891.5	18170.5	17854.0
27.5°	18652.9	15525.0	13948.1	14000.0	14492.8	16744.0	19005.6	20120.8	19571.0	19181.9
30°	19545.0	16106.0	14311.2	14072.6	15063.4	16967.0	19415.4	21521.3	21080.4	20758.8
32.5°	19913.3	16930.7	14887.0	14492.8	15535.4	17236.8	20266.0	22880.3	22501.7	21708.1
35°	20535.8	17392.4	15198.2	15167.1	16360.1	17885.2	20665.5	23777.7	23622.1	22916.7
37.5°	21033.7	17859.2	16303.1	15960.7	17490.9	18974.5	21308.7	25017.4	24659.5	24327.6
40°	21417.6	18694.3	17335.3	17786.6	18881.1	19965.2	21900.0	25095.2	26127.5	25162.7
42.5°	21064.9	19441.3	19031.5	20110.4	21147.9	21096.0	21967.4	25696.9	26469.8	25966.7
45°	20976.7	20706.9	21713.2	22693.6	22932.2	22034.8	21485.0	25033.0	26366.1	26143.0
47.5°	20764.0	21951.9	23705.1	25302.7	24939.6	22662.5	20909.2	24913.7	26428.3	26028.9
50°	20691.4	22221.6	25178.2	26734.4	26516.5	23207.1	20639.5	24146.0	25987.4	25951.1
52.5°	20686.2	22776.6	25790.3	27512.4	27647.3	24068.2	21007.8	24535.0	26329.8	26635.8
55°	20919.6	22600.2	25712.5	27081.9	27030.0	23684.3	21049.3	24794.4	26749.9	27050.8
57.5°	19731.8	20245.3	21220.5	22304.6	22024.5	19617.7	18798.1	22921.8	24550.6	24332.7
60°	17039.7	15431.7	14332.0	14280.1	13735.5	12983.3	15385.0	20458.0	20458.0	20245.3
62.5°	14923.3	10130.4	8704.0	8299.4	8688.4	9554.7	14840.3	19897.8	19332.4	19088.6
65°	13050.8	7734.0	6292.0	6177.8	6852.2	8159.3	13419.1	16951.5	15955.6	15146.4
67.5°	8397.9	5664.3	4678.8	4476.5	5290.9	5991.1	8932.2	10426.1	9798.5	9482.0
70°	5415.3	3688.0	2603.9	2443.1	2759.5	3693.2	5705.8	6079.3	5166.4	4953.7
72.5°	2562.4	1592.4	912.9	752.1	845.5	1410.9	2256.4	2427.6	2017.8	1846.6
75°	814.4	586.1	373.5	321.6	306.0	363.1	518.7	399.4	290.5	285.3
77.5°	363.1	347.5	295.7	249.0	217.9	181.5	150.4	124.5	129.7	134.9
80°	300.9	274.9	243.8	217.9	181.5	140.1	108.9	83.0	83.0	88.2
82.5°	264.5	238.6	212.7	181.5	155.6	114.1	83.0	57.1	51.9	51.9
85°	114.1	134.9	145.2	155.6	124.5	93.4	57.1	36.3	31.1	31.1
87.5°	46.7	41.5	36.3	31.1	25.9	25.9	20.7	15.6	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)