

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: P532190

Luminaire Tested: **GALN-SA7C-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532190
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 33973 lumens
Efficiency: N/A
Efficacy: 90.1 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

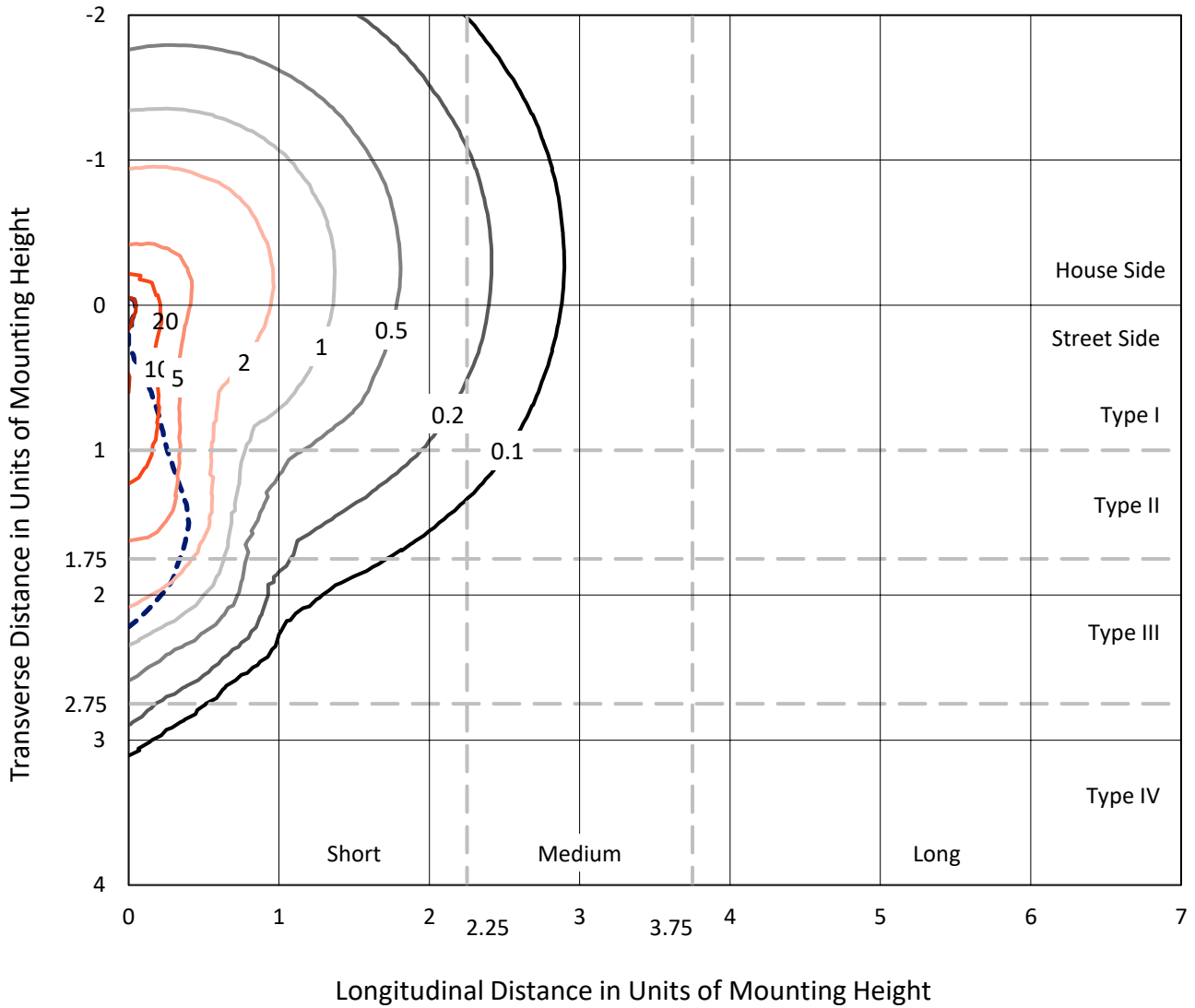
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

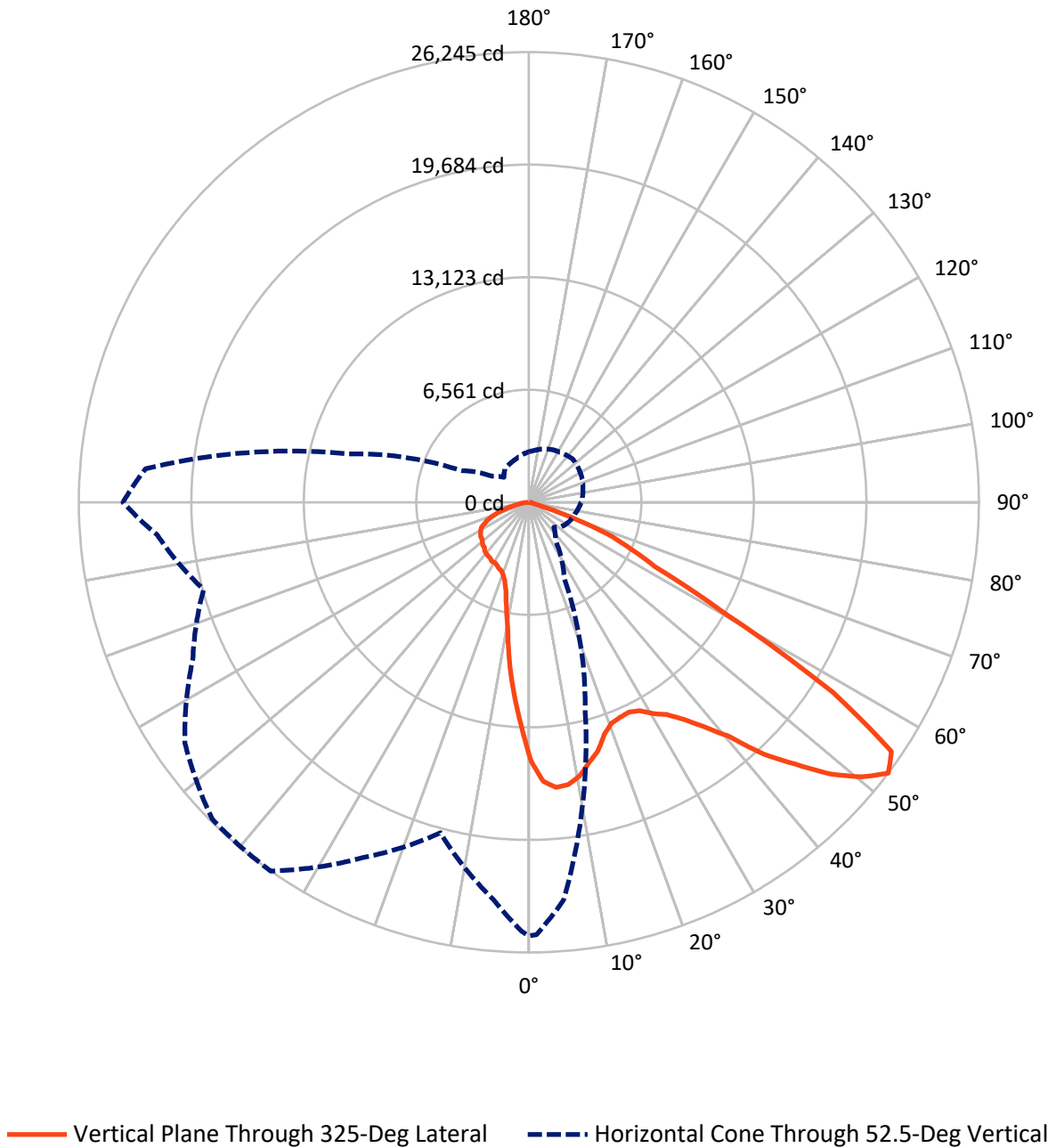
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 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	10241.4	0.0	10241.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	23731.6	0.0	23731.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	33973.0	0.0	33973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.3	3.4
10°-20°	2493.6	7.3
20°-30°	3767.7	11.1
30°-40°	5444.4	16.0
40°-50°	7245.6	21.3
50°-60°	8104.4	23.9
60°-70°	4567.6	13.4
70°-80°	1018.2	3.0
80°-90°	181.3	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°	33973.0	100.0
0°-180°	33973.0	100.0

Coefficient of Utilization



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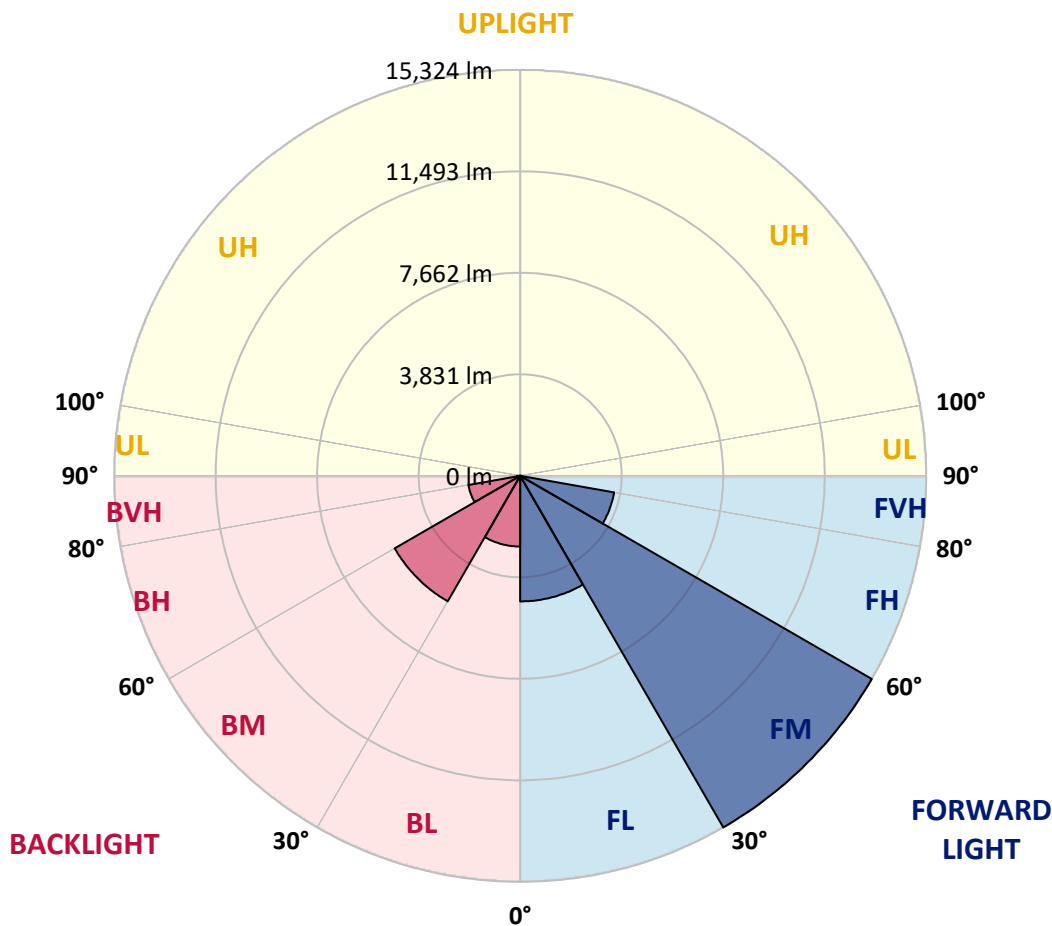
CATALOG NUMBER: GALN-SA7C-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4740.9	14.0			
FM (30°-60°)	15324.4	45.1			
FH (60°-80°)	3600.6	10.6			G2/5000
FVH (80°-90°)	65.7	0.2			G1/100
BL (0°-30°)	2670.7	7.9	B4/5000		
BM (30°-60°)	5470.0	16.1	B4/8500		
BH (60°-80°)	1985.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	115.7	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°	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4
2.5°	15328.6	15574.8	15308.9	14836.1	14501.3	14196.0	13876.0	13811.9	13393.4	13319.5	13014.3
5°	14457.0	14402.8	14077.8	13457.4	12773.0	12152.5	11694.6	11251.4	10951.1	10601.5	10576.8
7.5°	13398.3	13083.2	12896.1	11955.6	11108.6	10133.7	9715.1	9040.5	8828.8	8513.7	8351.2
10°	12452.9	12221.5	11783.2	10842.7	9661.0	9015.9	8567.8	8203.5	7957.3	7632.3	7223.6
12.5°	11985.1	11891.6	11399.2	9941.6	9065.2	8375.8	8060.7	7706.1	7287.6	6765.6	6563.8
15°	12068.8	11753.7	11379.5	9769.3	8558.0	7893.2	7391.0	6947.8	6411.1	5913.8	5623.3
17.5°	12694.2	12452.9	11704.5	9877.6	8366.0	7405.8	6494.8	5839.9	5357.4	4909.3	4707.4
20°	13925.2	13575.6	12733.6	10015.5	7952.3	6726.2	5682.3	4874.8	4357.8	4121.4	4052.5
22.5°	15289.2	15082.4	13738.1	10325.7	7622.4	6096.0	4820.6	4013.1	3821.1	3757.0	3885.1
25°	16948.6	16411.8	15299.0	10832.9	7366.4	5559.2	4091.9	3643.8	3545.3	3609.3	3757.0
27.5°	18209.1	18066.3	16392.1	11310.5	7016.8	4914.2	3683.2	3387.7	3417.3	3481.3	3619.2
30°	19706.0	18982.2	17450.8	11640.4	6701.6	4471.0	3397.6	3318.8	3348.4	3456.7	3525.6
32.5°	20607.1	20336.3	18115.6	12137.8	6337.2	4087.0	3176.0	3102.1	3146.5	3309.0	3471.5
35°	21754.4	21217.7	18937.9	12265.8	6081.2	3934.3	3018.4	2964.3	3067.7	3180.9	3363.1
37.5°	23093.8	22724.5	20075.3	12177.2	5943.3	3776.7	2885.5	2860.9	2934.7	3092.3	3304.0
40°	23886.5	23773.3	20671.1	12231.3	5726.7	3638.9	2732.8	2762.4	2915.0	3038.1	3244.9
42.5°	24649.8	23911.2	21552.5	12211.6	5588.8	3451.8	2747.6	2713.1	2831.3	2974.1	3171.1
45°	24817.2	24083.5	21759.4	12073.8	5421.4	3269.6	2634.4	2649.1	2791.9	2969.2	3097.2
47.5°	24708.9	24167.2	22143.4	12034.4	5263.8	3141.5	2466.9	2644.2	2727.9	2870.7	3052.9
50°	24635.0	24605.5	22468.4	12221.5	5052.1	2939.7	2265.1	2580.2	2663.9	2806.7	3003.7
52.5°	25285.0	25221.0	23280.9	12713.9	4884.7	2723.0	2058.3	2417.7	2619.6	2757.5	2949.5
55°	25678.9	25398.2	24674.4	13319.5	4604.0	2437.4	1915.5	2215.8	2511.3	2634.4	2831.3
57.5°	23098.7	22906.7	22320.7	12433.2	4131.3	2063.2	1738.2	2009.0	2363.5	2555.6	2757.5
60°	19218.5	18918.2	17416.3	10567.0	3048.0	1605.2	1629.9	1846.5	2324.1	2398.0	2634.4
62.5°	18120.5	17377.0	15333.5	8503.8	2338.9	1378.7	1462.4	1698.8	2117.3	2240.4	2476.8
65°	14378.2	13826.7	10970.8	6140.3	1565.8	1196.5	1334.4	1531.4	1826.8	2068.1	2284.8
67.5°	9001.2	8474.3	5854.7	2905.2	1093.1	1024.2	1191.6	1398.4	1639.7	1856.4	2097.6
70°	4702.5	4126.3	2703.3	1048.8	753.4	837.1	994.7	1191.6	1428.0	1605.2	1792.4
72.5°	1753.0	1423.0	881.4	453.0	521.9	640.1	807.5	950.3	1117.8	1334.4	1437.8
75°	270.8	231.4	226.5	275.7	354.5	462.9	576.1	718.9	866.6	1004.5	1073.4
77.5°	128.0	123.1	137.9	182.2	236.4	329.9	418.5	556.4	674.6	763.2	802.6
80°	83.7	78.8	88.6	123.1	177.3	246.2	334.8	428.4	536.7	610.6	600.7
82.5°	49.2	54.2	54.2	83.7	123.1	177.3	241.3	325.0	398.8	462.9	423.5
85°	29.5	24.6	24.6	49.2	83.7	142.8	201.9	137.9	142.8	142.8	162.5
87.5°	9.8	9.8	9.8	4.9	9.8	9.8	14.8	24.6	29.5	34.5	44.3
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°	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4
2.5°	13004.4	13157.0	13102.9	12910.8	13058.6	13083.2	12984.7	13324.5	13388.5	13285.1	13314.6
5°	10542.4	10581.8	10670.4	10857.5	10990.5	11148.0	11148.0	11157.9	11024.9	11359.8	11261.3
7.5°	8213.3	8237.9	8341.3	8740.2	8853.4	9153.8	9281.8	9193.2	8927.3	8814.0	8907.6
10°	7090.6	6947.8	6913.4	6962.6	7218.7	7346.7	7455.0	7425.5	7381.1	7292.5	7194.0
12.5°	6342.2	6238.8	6155.1	6036.9	6051.7	6174.8	6258.5	6189.5	6209.2	6228.9	6258.5
15°	5529.7	5455.8	5411.5	5234.3	5214.6	5298.3	5327.8	5367.2	5441.1	5446.0	5411.5
17.5°	4668.0	4604.0	4702.5	4800.9	4732.0	4736.9	4791.1	4825.6	4805.9	4717.2	4672.9
20°	4077.1	4146.0	4244.5	4338.1	4411.9	4456.3	4476.0	4421.8	4357.8	4175.6	4170.7
22.5°	3904.8	3993.4	4077.1	4219.9	4288.8	4402.1	4298.7	4175.6	4087.0	3998.3	3894.9
25°	3776.7	3850.6	4018.0	4072.2	4205.1	4298.7	4224.8	4101.7	3949.1	3821.1	3742.3
27.5°	3683.2	3766.9	3875.2	4022.9	4126.3	4180.5	4106.7	4057.4	3899.8	3747.2	3633.9
30°	3624.1	3712.7	3909.7	4032.8	4121.4	4165.7	4037.7	3978.6	3865.4	3737.4	3638.9
32.5°	3584.7	3663.5	3830.9	3988.5	4047.6	4047.6	4067.3	3998.3	3840.8	3624.1	3540.4
35°	3456.7	3565.0	3702.9	3885.1	3993.4	4057.4	3958.9	3880.1	3776.7	3555.2	3402.5
37.5°	3382.8	3456.7	3633.9	3806.3	3899.8	3968.8	3929.4	3791.5	3653.6	3471.5	3348.4
40°	3304.0	3422.2	3579.8	3742.3	3845.7	3914.6	3885.1	3722.6	3555.2	3382.8	3299.1
42.5°	3249.9	3328.7	3491.1	3673.3	3796.4	3929.4	3840.8	3638.9	3520.7	3284.3	3190.8
45°	3205.6	3333.6	3505.9	3579.8	3707.8	3845.7	3688.1	3565.0	3427.1	3254.8	3176.0
47.5°	3151.4	3269.6	3382.8	3579.8	3638.9	3702.9	3673.3	3476.4	3358.2	3171.1	3116.9
50°	3131.7	3176.0	3382.8	3491.1	3574.9	3638.9	3560.1	3412.4	3299.1	3107.1	2988.9
52.5°	3052.9	3136.6	3269.6	3412.4	3515.8	3594.6	3466.5	3373.0	3220.3	3018.4	2944.6
55°	2954.4	3003.7	3240.0	3387.7	3441.9	3496.1	3446.8	3294.2	3136.6	2929.8	2855.9
57.5°	2826.4	2939.7	3131.7	3338.5	3407.4	3437.0	3358.2	3235.1	3038.1	2855.9	2737.8
60°	2693.5	2811.6	3023.4	3190.8	3259.7	3368.0	3249.9	3176.0	2949.5	2747.6	2619.6
62.5°	2560.5	2693.5	2851.0	3062.8	3121.8	3166.2	3136.6	3033.2	2851.0	2624.5	2466.9
65°	2402.9	2501.4	2698.4	2806.7	2846.1	2949.5	2846.1	2806.7	2644.2	2427.6	2294.6
67.5°	2166.6	2250.3	2422.6	2526.0	2555.6	2599.9	2595.0	2550.7	2368.5	2220.7	2102.6
70°	1895.8	1969.6	2077.9	2201.0	2215.8	2270.0	2220.7	2210.9	2092.7	1890.8	1826.8
72.5°	1521.5	1590.5	1733.3	1787.4	1792.4	1812.0	1787.4	1753.0	1723.4	1511.7	1447.7
75°	1167.0	1206.4	1275.3	1324.6	1324.6	1349.2	1334.4	1299.9	1221.2	1088.2	1024.2
77.5°	812.5	851.9	940.5	970.0	965.1	975.0	930.6	896.2	778.0	709.1	654.9
80°	590.9	615.5	659.8	679.5	684.4	699.2	645.0	615.5	546.6	467.8	443.2
82.5°	428.4	443.2	448.1	472.7	472.7	448.1	433.3	403.8	354.5	305.3	285.6
85°	177.3	182.2	187.1	216.7	221.6	265.9	246.2	231.4	201.9	172.3	157.6
87.5°	44.3	49.2	64.0	54.2	64.0	64.0	68.9	78.8	78.8	64.0	64.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4
2.5°	13427.9	13467.3	13969.5	14033.5	14279.7	14530.9	15038.0	15402.4	15697.9	15889.9	15944.1
5°	11364.7	11615.8	11847.3	12221.5	12561.2	13043.8	13600.2	14289.6	15156.2	15599.4	15776.6
7.5°	8897.7	9193.2	9528.0	9892.4	10389.7	11256.4	11999.9	12797.6	13905.5	14363.4	15057.7
10°	7263.0	7592.9	8036.0	8316.7	8917.4	9744.7	10611.3	11532.1	12590.8	13250.6	14053.2
12.5°	6421.0	6691.8	7100.5	7691.4	8139.4	8676.2	9321.2	10483.3	11999.9	12625.3	13176.7
15°	5490.3	5790.7	6263.4	6918.3	7455.0	8095.1	8819.0	10084.4	11699.5	12664.6	13132.4
17.5°	4722.2	4938.8	5436.1	6002.4	6617.9	7317.1	8356.1	10064.7	12014.7	13250.6	14013.8
20°	4190.4	4219.9	4490.7	4973.3	5810.4	6721.3	8070.5	9966.3	13024.1	14260.0	15225.1
22.5°	3855.5	3826.0	3830.9	4239.6	4825.6	6135.4	7622.4	10301.1	14171.4	15865.3	16515.2
25°	3688.1	3609.3	3560.1	3648.7	4180.5	5441.1	7282.7	10744.3	15407.3	17189.8	17987.5
27.5°	3599.5	3461.6	3363.1	3377.9	3766.9	5091.5	7070.9	10936.3	16633.4	19036.4	19317.0
30°	3565.0	3392.7	3249.9	3200.6	3456.7	4604.0	6617.9	11266.2	17731.5	20050.7	20292.0
32.5°	3441.9	3230.2	3092.3	3048.0	3151.4	4175.6	6292.9	11502.6	18701.5	21153.7	21070.0
35°	3299.1	3121.8	2949.5	2865.8	2939.7	3899.8	6032.0	11389.3	19843.9	22010.5	21966.2
37.5°	3284.3	3052.9	2910.1	2772.2	2767.3	3560.1	5677.4	11497.6	20572.7	23546.8	22941.1
40°	3156.3	3008.6	2821.5	2708.2	2644.2	3387.7	5332.7	11241.6	21641.2	24167.2	23571.4
42.5°	3161.2	2939.7	2777.2	2644.2	2580.2	3136.6	5096.4	11172.7	22015.4	25176.6	23866.8
45°	3082.5	2865.8	2727.9	2570.4	2535.9	2944.6	4869.9	10852.6	22675.2	25225.9	23497.5
47.5°	3003.7	2811.6	2663.9	2476.8	2398.0	2875.6	4692.6	10586.7	22330.5	24763.0	22985.4
50°	2949.5	2727.9	2590.0	2457.1	2235.5	2757.5	4461.2	10522.7	21848.0	24137.7	22035.1
52.5°	2855.9	2659.0	2516.2	2412.8	2058.3	2649.1	4372.6	10896.9	22438.9	23669.9	21759.4
55°	2767.3	2565.4	2383.2	2181.4	1910.5	2363.5	4126.3	11246.5	23300.6	24748.3	23010.1
57.5°	2673.8	2481.7	2284.8	2043.5	1767.7	2068.1	3870.3	11310.5	21685.5	22872.2	21843.1
60°	2550.7	2304.5	2156.7	1841.6	1615.1	1713.6	3067.7	9971.2	16820.5	19100.4	19134.8
62.5°	2412.8	2146.9	2018.9	1649.6	1457.5	1477.2	2501.4	8380.7	13644.5	15811.1	16751.6
65°	2230.6	1974.5	1821.9	1526.5	1344.3	1280.3	1831.7	6140.3	10365.1	12827.1	13895.7
67.5°	1994.2	1753.0	1560.9	1329.5	1201.5	1098.1	1250.7	3456.7	6120.6	8612.2	8937.1
70°	1743.1	1536.3	1334.4	1142.4	999.6	925.7	915.9	1531.4	2924.9	4633.5	5273.7
72.5°	1373.8	1226.1	1063.6	920.8	827.2	718.9	654.9	635.2	989.7	1885.9	2604.8
75°	984.8	861.7	768.2	674.6	605.7	546.6	497.3	453.0	413.6	472.7	650.0
77.5°	620.4	576.1	502.3	477.6	438.2	423.5	403.8	379.2	349.6	329.9	329.9
80°	418.5	389.0	364.4	359.5	344.7	339.8	344.7	320.1	290.5	265.9	275.7
82.5°	280.7	275.7	270.8	265.9	270.8	275.7	285.6	280.7	256.1	241.3	246.2
85°	167.4	177.3	187.1	197.0	216.7	192.0	157.6	132.9	118.2	108.3	103.4
87.5°	64.0	88.6	78.8	73.9	78.8	73.9	68.9	64.0	54.2	49.2	49.2
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: P532190

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4	15077.4
2.5°	16303.5	16402.0	16485.7	16466.0	16293.7	16062.2	15968.7	15491.0	15392.6	15328.6
5°	16525.1	17096.3	17219.4	17145.5	16697.4	16131.2	15579.7	14880.5	14471.8	14457.0
7.5°	16116.4	16820.5	17042.1	17209.5	16613.7	15628.9	14683.5	13634.7	13378.6	13398.3
10°	15077.4	16200.1	16746.7	16919.0	16234.6	15382.7	14072.9	13009.3	12462.8	12452.9
12.5°	14501.3	15382.7	15535.4	15776.6	15574.8	14713.0	13718.4	12526.8	11995.0	11985.1
15°	13989.2	14570.2	14614.6	14954.3	15062.7	14481.6	13811.9	12541.5	12113.2	12068.8
17.5°	14437.3	14033.5	13866.1	13910.4	14230.5	14442.2	14353.6	13378.6	12940.4	12694.2
20°	14737.7	13836.6	13329.4	13378.6	13757.8	14530.9	15161.1	14589.9	13895.7	13925.2
22.5°	15540.3	13866.1	13073.3	13019.2	13619.9	14993.7	16072.1	16121.3	15451.7	15289.2
25°	16741.8	14205.9	12994.6	12979.8	13555.9	15491.0	17135.7	17933.4	17248.9	16948.6
27.5°	17706.9	14737.7	13240.8	13290.0	13757.8	15894.8	18041.7	19100.4	18578.4	18209.1
30°	18553.8	15289.2	13585.4	13358.9	14299.4	16106.6	18430.7	20429.9	20011.3	19706.0
32.5°	18903.4	16072.1	14132.0	13757.8	14747.5	16362.6	19238.2	21720.0	21360.5	20607.1
35°	19494.3	16510.3	14427.5	14397.9	15530.4	16978.1	19617.4	22571.8	22424.1	21754.4
37.5°	19967.0	16953.5	15476.3	15151.3	16603.9	18012.2	20228.0	23748.7	23408.9	23093.8
40°	20331.4	17746.3	16456.2	16884.6	17923.5	18952.6	20789.3	23822.5	24802.4	23886.5
42.5°	19996.5	18455.3	18066.3	19090.5	20075.3	20026.1	20853.3	24393.7	25127.4	24649.8
45°	19912.8	19656.8	20612.1	21542.7	21769.2	20917.3	20395.4	23763.4	25028.9	24817.2
47.5°	19711.0	20838.6	22502.9	24019.5	23674.8	21513.2	19848.8	23650.2	25088.0	24708.9
50°	19642.0	21094.6	23901.3	25378.5	25171.7	22030.2	19592.8	22921.4	24669.5	24635.0
52.5°	19637.1	21621.5	24482.4	26117.1	26245.2	22847.6	19942.4	23290.7	24994.5	25285.0
55°	19858.7	21454.1	24408.5	25708.4	25659.2	22483.2	19981.8	23536.9	25393.3	25678.9
57.5°	18731.1	19218.5	20144.3	21173.4	20907.5	18622.7	17844.7	21759.4	23305.5	23098.7
60°	16175.5	14649.0	13605.1	13555.9	13038.9	12324.9	14604.7	19420.4	19420.4	19218.5
62.5°	14166.5	9616.7	8262.5	7878.5	8247.8	9070.1	14087.7	18888.6	18351.9	18120.5
65°	12388.9	7341.8	5972.9	5864.5	6504.7	7745.5	12738.5	16091.8	15146.4	14378.2
67.5°	7972.0	5377.1	4441.5	4249.5	5022.5	5687.3	8479.2	9897.3	9301.5	9001.2
70°	5140.7	3501.0	2471.9	2319.2	2619.6	3505.9	5416.4	5771.0	4904.3	4702.5
72.5°	2432.5	1511.7	866.6	714.0	802.6	1339.3	2142.0	2304.5	1915.5	1753.0
75°	773.1	556.4	354.5	305.3	290.5	344.7	492.4	379.2	275.7	270.8
77.5°	344.7	329.9	280.7	236.4	206.8	172.3	142.8	118.2	123.1	128.0
80°	285.6	261.0	231.4	206.8	172.3	132.9	103.4	78.8	78.8	83.7
82.5°	251.1	226.5	201.9	172.3	147.7	108.3	78.8	54.2	49.2	49.2
85°	108.3	128.0	137.9	147.7	118.2	88.6	54.2	34.5	29.5	29.5
87.5°	44.3	39.4	34.5	29.5	24.6	24.6	19.7	14.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)