

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639694

Luminaire Tested: GWS-SA5C-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18375.4 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

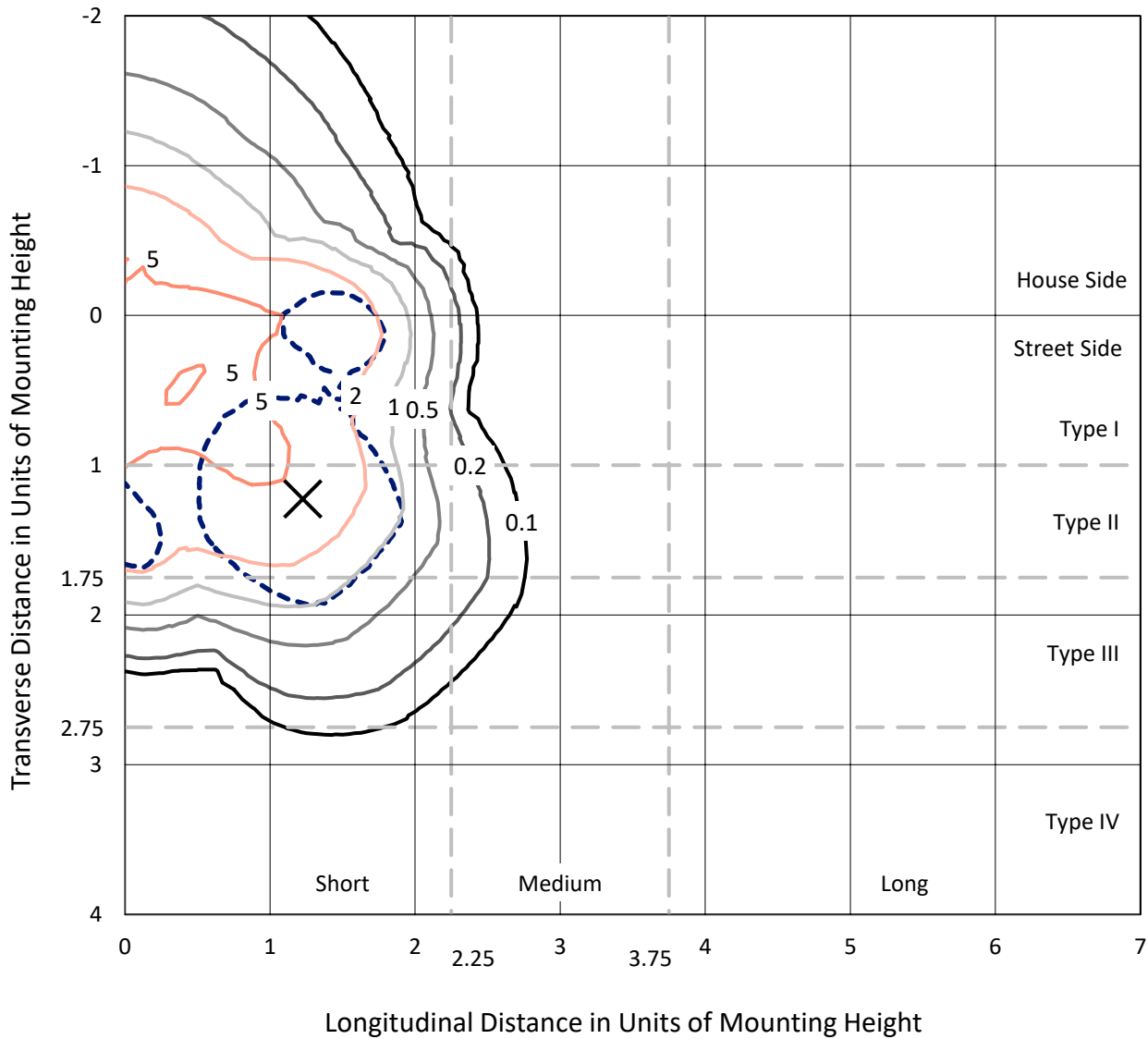
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

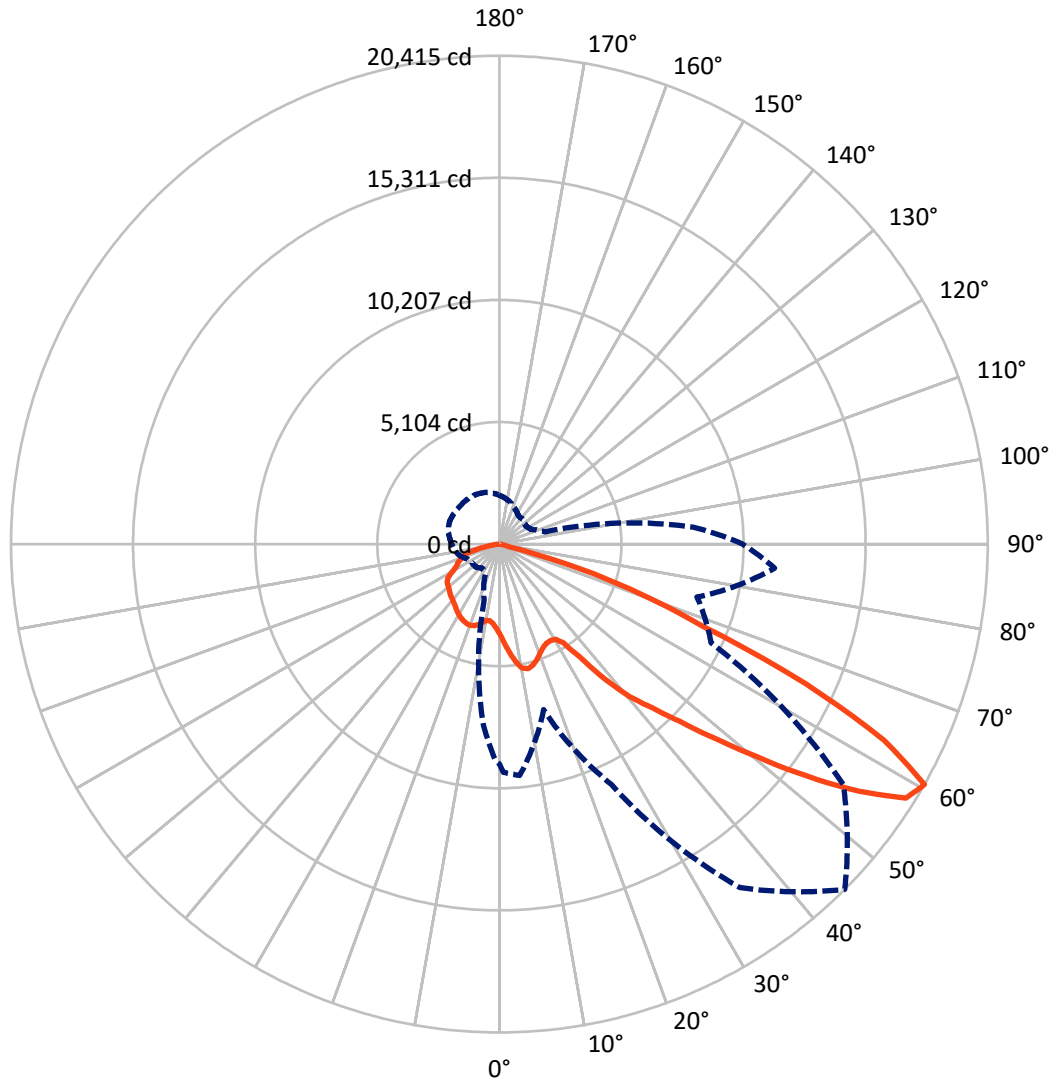
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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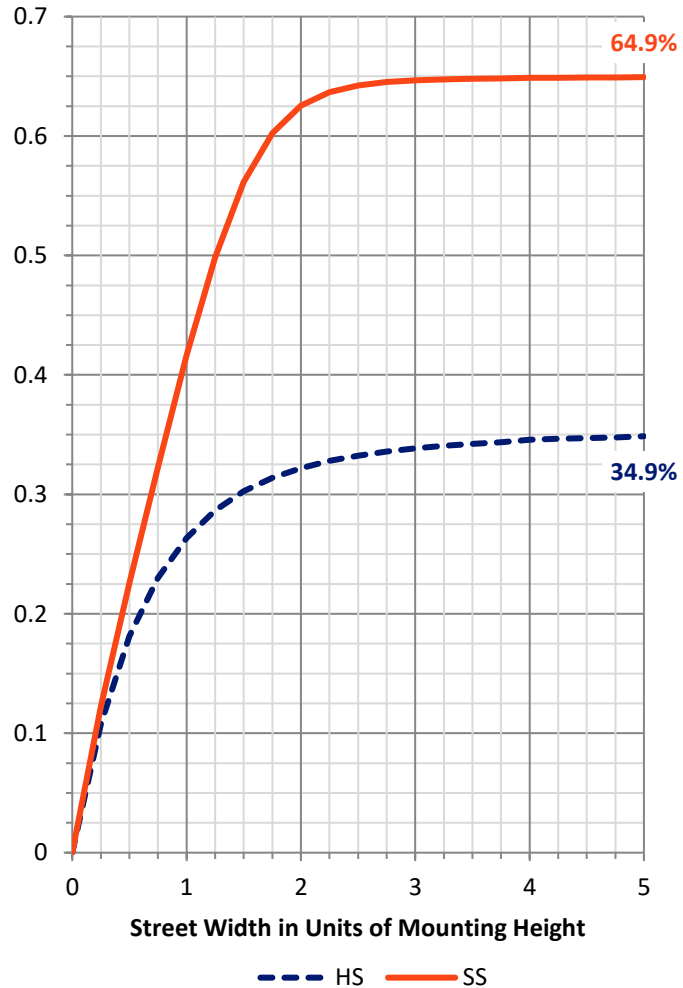
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6441.2	0.0	6441.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	11934.2	0.0	11934.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	18375.4	0.0	18375.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	2.0
10°-20°	1163.8	6.3
20°-30°	1890.5	10.3
30°-40°	2666.2	14.5
40°-50°	3684.6	20.1
50°-60°	4743.1	25.8
60°-70°	3005.3	16.4
70°-80°	771.2	4.2
80°-90°	82.5	0.4
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°	18375.4	100.0
0°-180°	18375.4	100.0

Coefficient of Utilization



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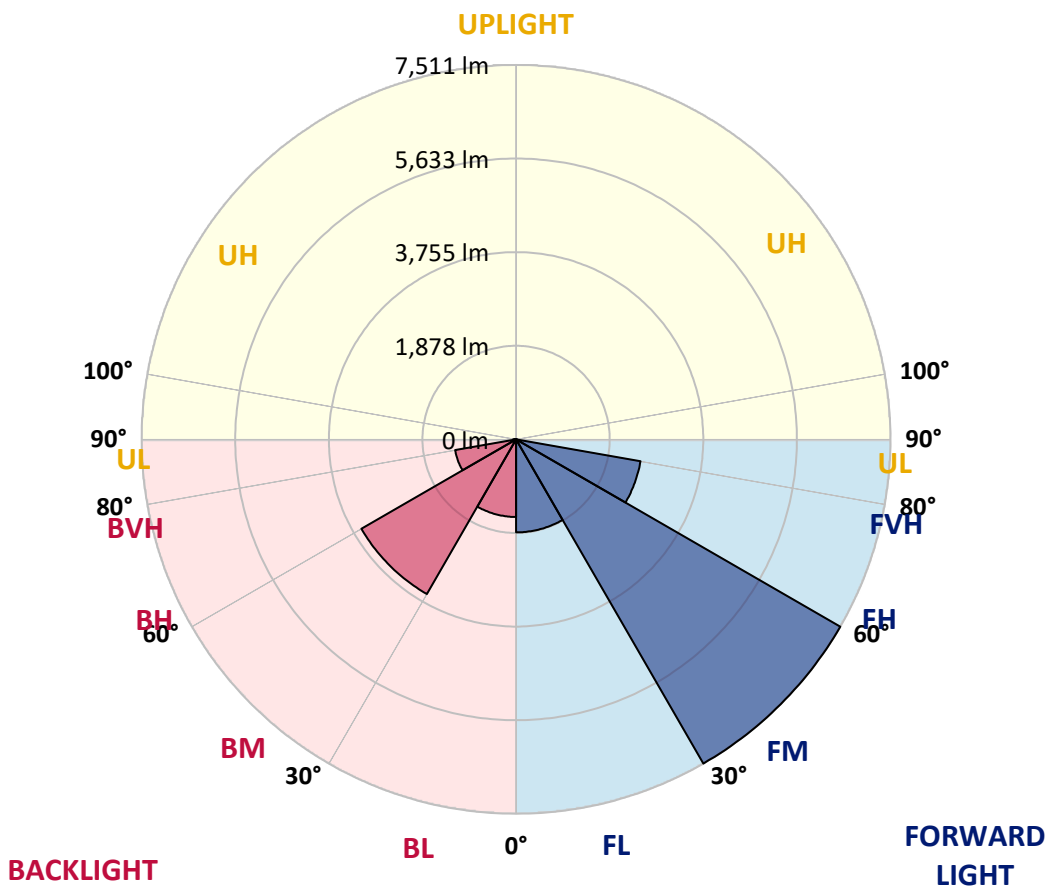
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.8	10.2			
FM (30°-60°)	7510.8	40.9			
FH (60°-80°)	2535.2	13.8			G2/5000
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	1556.8	8.5	B3/2500		
BM (30°-60°)	3583.1	19.5	B3/5000		
BH (60°-80°)	1241.3	6.8	B3/2500		G3/2500
BVH (80°-90°)	60.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8
2.5°	3948.3	3975.2	3992.0	4024.0	4081.3	4113.3	4148.6	4109.9	4120.0	4115.0	4052.7
5°	4182.3	4214.3	4258.1	4352.4	4458.4	4517.4	4572.9	4564.5	4512.3	4424.8	4362.5
7.5°	4401.2	4438.2	4514.0	4667.2	4823.8	4914.7	4982.1	4938.3	4894.5	4756.4	4599.9
10°	4572.9	4594.8	4697.5	4902.9	5084.8	5187.5	5270.0	5259.9	5199.3	5044.4	4833.9
12.5°	4734.6	4749.7	4860.8	5066.2	5229.6	5275.0	5342.4	5364.3	5344.1	5227.9	5020.8
15°	4908.0	4936.6	5039.3	5195.9	5270.0	5222.8	5246.4	5307.0	5364.3	5364.3	5174.0
17.5°	5069.6	5094.9	5199.3	5266.6	5195.9	5071.3	5078.0	5155.5	5291.9	5435.0	5313.7
20°	5212.7	5236.3	5339.0	5275.0	5051.1	4869.2	4864.2	4958.5	5179.0	5480.4	5463.6
22.5°	5369.3	5403.0	5488.8	5281.8	4916.4	4685.7	4684.0	4781.7	5079.7	5525.9	5635.3
25°	5591.6	5643.7	5687.5	5340.7	4844.0	4566.2	4588.1	4680.7	5047.7	5600.0	5889.6
27.5°	5921.6	5963.7	5960.3	5463.6	4840.6	4517.4	4562.8	4670.6	5105.0	5731.3	6157.3
30°	6278.5	6300.4	6265.0	5635.3	4918.1	4547.7	4615.0	4743.0	5249.8	5948.5	6551.3
32.5°	6674.2	6701.1	6633.8	5892.9	5098.2	4771.6	4919.8	4982.1	5453.5	6261.7	6968.8
35°	7128.8	7181.0	7041.2	6233.0	5628.6	5588.2	5803.7	5722.9	5886.2	6632.1	7415.0
37.5°	7606.9	7608.6	7408.3	6736.5	6669.1	6738.2	7169.2	6916.6	6803.8	7044.6	7869.6
40°	8012.7	8002.6	7694.5	7415.0	7574.9	7849.4	8369.7	7982.4	7686.1	7598.5	8246.7
42.5°	8418.5	8381.4	8070.0	7846.0	8199.6	8763.6	9351.2	8876.4	8251.8	8101.9	8618.8
45°	8937.1	8925.3	8549.8	8017.8	8763.6	9787.3	10566.9	9797.4	8586.8	8394.9	9238.4
47.5°	9773.9	9716.6	9017.9	8004.3	9292.3	11151.1	12136.1	10957.5	8820.9	8401.6	10238.6
50°	10592.1	10521.4	9576.9	8002.6	9837.8	12565.4	13988.1	12366.7	9060.0	8442.1	11255.5
52.5°	11418.8	11418.8	10494.5	8192.9	10410.3	14144.7	16128.1	14122.8	9467.4	8970.7	12506.5
55°	11910.5	12041.8	11526.6	8514.4	11080.4	16003.5	18244.5	16018.7	10097.1	9925.4	13661.5
57.5°	11285.8	11531.6	11457.5	8290.5	11476.1	17369.0	20039.3	17456.6	10408.6	10038.2	13488.1
60°	9196.3	9538.1	9708.2	7159.1	11085.5	17527.3	20414.8	17550.8	9765.4	8548.1	11553.5
62.5°	6113.5	6394.7	6654.0	5115.1	9597.1	15767.8	18056.0	15772.9	8155.8	6379.5	8004.3
65°	2998.7	3207.4	3486.9	3023.9	7497.5	13174.9	14077.4	12745.6	5899.7	3571.1	4083.0
67.5°	784.6	843.5	882.3	1173.5	5371.0	9465.7	9181.2	9322.6	3790.0	1166.8	1067.5
70°	407.5	410.8	409.1	484.9	3630.0	6015.8	6327.3	5854.2	2645.1	488.3	420.9
72.5°	291.3	293.0	287.9	326.6	1752.7	3446.5	3571.1	3532.4	1385.7	289.6	287.9
75°	190.3	191.9	188.6	191.9	264.3	392.3	362.0	380.5	230.7	183.5	183.5
77.5°	112.8	114.5	112.8	116.2	112.8	112.8	104.4	104.4	99.3	99.3	101.0
80°	75.8	75.8	74.1	77.5	70.7	70.7	67.3	65.7	60.6	58.9	58.9
82.5°	45.5	47.1	45.5	45.5	42.1	42.1	38.7	37.0	32.0	32.0	30.3
85°	23.6	23.6	21.9	21.9	18.5	16.8	13.5	13.5	10.1	8.4	8.4
87.5°	3.4	3.4	1.7	1.7	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°	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8
2.5°	4035.8	4002.1	3951.6	3902.8	3857.3	3810.2	3756.3	3700.8	3653.6	3604.8	3579.5
5°	4280.0	4210.9	4079.6	3963.4	3859.0	3773.2	3680.6	3601.4	3527.3	3466.7	3436.4
7.5°	4500.5	4392.8	4194.1	4010.6	3869.1	3751.3	3623.3	3505.5	3406.1	3332.0	3303.4
10°	4704.2	4576.3	4315.3	4083.0	3918.0	3786.6	3630.0	3470.1	3338.8	3241.1	3217.5
12.5°	4869.2	4722.8	4411.3	4141.9	3946.6	3805.2	3667.1	3529.0	3399.4	3273.1	3252.9
15°	5015.7	4842.3	4483.7	4178.9	3936.5	3756.3	3640.2	3623.3	3623.3	3480.2	3439.8
17.5°	5142.0	4951.7	4542.6	4195.8	3872.5	3611.5	3540.8	3687.3	3852.3	3749.6	3658.7
20°	5286.8	5056.1	4591.4	4195.8	3754.6	3428.0	3421.3	3670.5	3914.6	3916.3	3820.3
22.5°	5433.3	5177.4	4648.7	4180.6	3593.0	3215.9	3340.5	3603.1	3820.3	3912.9	3847.2
25°	5670.7	5345.7	4739.6	4168.8	3404.4	3071.1	3268.1	3513.9	3697.4	3795.1	3753.0
27.5°	5972.1	5568.0	4877.7	4187.4	3217.5	2985.2	3190.6	3397.7	3564.4	3650.3	3619.9
30°	6308.8	5823.9	5025.8	4219.3	3082.8	2941.4	3098.0	3264.7	3412.9	3498.7	3485.3
32.5°	6738.2	6101.7	5153.8	4175.6	3007.1	2919.5	3000.3	3119.9	3263.0	3316.9	3328.7
35°	7251.7	6408.1	5251.4	4003.8	2938.0	2896.0	2894.3	2968.4	3069.4	3155.2	3163.7
37.5°	7724.8	6766.8	5359.2	3709.2	2813.5	2837.0	2769.7	2813.5	2912.8	2998.7	3032.3
40°	8192.9	7130.5	5509.1	3333.7	2650.1	2705.7	2626.6	2656.9	2736.0	2848.8	2902.7
42.5°	8647.5	7458.8	5667.3	2949.8	2486.8	2522.2	2463.2	2493.6	2576.1	2717.5	2778.1
45°	9142.5	7903.3	5790.2	2587.8	2345.4	2330.2	2283.1	2326.9	2451.5	2606.4	2678.8
47.5°	10078.6	8603.7	5871.0	2347.1	2269.6	2160.2	2106.3	2200.6	2342.0	2498.6	2586.2
50°	11221.8	9617.3	5847.5	2193.9	2204.0	1985.1	1966.6	2091.2	2242.7	2406.0	2502.0
52.5°	12127.7	10612.3	5579.8	2047.4	2076.0	1874.0	1820.1	2001.9	2146.7	2313.4	2412.7
55°	12819.7	10947.4	4758.1	1874.0	1867.2	1793.1	1680.3	1909.3	2050.7	2205.6	2313.4
57.5°	12255.6	10201.5	3527.3	1634.9	1594.5	1633.2	1523.7	1752.7	1932.9	2086.1	2182.1
60°	10171.2	8133.9	1964.9	1448.0	1333.5	1427.8	1410.9	1587.7	1804.9	1966.6	2049.1
62.5°	6904.8	5416.4	1165.1	1144.9	1080.9	1215.6	1304.9	1421.0	1634.9	1766.2	1843.6
65°	3441.5	2631.6	774.5	857.0	865.4	1000.1	1168.5	1296.4	1474.9	1609.6	1687.1
67.5°	998.4	818.3	589.3	655.0	745.9	853.6	988.3	1139.9	1313.3	1473.2	1564.2
70°	431.0	436.1	468.1	545.5	634.8	745.9	880.6	1028.7	1175.2	1298.1	1367.2
72.5°	304.7	316.5	351.9	431.0	515.2	621.3	756.0	899.1	1005.2	1129.8	1202.2
75°	195.3	203.7	232.4	293.0	355.3	458.0	585.9	717.3	826.7	915.9	985.0
77.5°	107.8	109.4	133.0	168.4	210.5	276.1	370.4	473.1	553.9	604.4	666.7
80°	62.3	62.3	74.1	96.0	121.2	161.6	213.8	264.3	313.2	345.2	375.5
82.5°	33.7	33.7	38.7	52.2	65.7	89.2	119.5	144.8	175.1	191.9	212.1
85°	10.1	10.1	13.5	18.5	23.6	33.7	47.1	60.6	74.1	85.9	97.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8
2.5°	3574.5	3550.9	3537.4	3520.6	3525.7	3510.5	3502.1	3507.1	3476.8	3507.1	3537.4
5°	3424.6	3391.0	3364.0	3342.1	3332.0	3311.8	3300.0	3300.0	3281.5	3311.8	3348.9
7.5°	3293.3	3266.4	3252.9	3239.4	3224.3	3205.8	3185.6	3178.8	3167.0	3199.0	3231.0
10°	3205.8	3209.1	3217.5	3236.1	3232.7	3220.9	3190.6	3173.8	3173.8	3210.8	3259.6
12.5°	3246.2	3281.5	3301.7	3335.4	3342.1	3332.0	3301.7	3288.3	3321.9	3377.5	3458.3
15°	3402.7	3426.3	3443.2	3470.1	3468.4	3460.0	3436.4	3446.5	3557.6	3665.4	3737.8
17.5°	3572.8	3545.9	3542.5	3559.3	3564.4	3554.3	3540.8	3586.3	3769.8	3870.8	3907.9
20°	3695.7	3603.1	3582.9	3589.6	3603.1	3598.1	3598.1	3672.1	3862.4	3909.5	3862.4
22.5°	3732.8	3601.4	3571.1	3572.8	3591.3	3593.0	3601.4	3678.9	3790.0	3791.7	3719.3
25°	3673.8	3547.5	3525.7	3529.0	3550.9	3549.2	3552.6	3596.4	3645.2	3625.0	3571.1
27.5°	3562.7	3453.3	3446.5	3465.0	3493.7	3478.5	3468.4	3480.2	3503.8	3478.5	3431.4
30°	3436.4	3343.8	3347.2	3382.5	3412.9	3387.6	3362.3	3369.1	3370.8	3343.8	3289.9
32.5°	3303.4	3234.4	3246.2	3283.2	3318.6	3291.6	3264.7	3261.3	3229.3	3197.3	3145.1
35°	3170.4	3143.5	3158.6	3188.9	3219.2	3197.3	3180.5	3170.4	3101.4	3054.2	3010.4
37.5°	3049.2	3069.4	3096.3	3114.8	3124.9	3123.3	3113.2	3089.6	2998.7	2943.1	2885.9
40°	2941.4	3003.7	3032.3	3040.8	3055.9	3052.5	3050.9	3017.2	2897.6	2838.7	2773.0
42.5°	2843.8	2931.3	2980.1	2988.6	2997.0	2998.7	2993.6	2944.8	2808.4	2739.4	2677.1
45°	2749.5	2864.0	2926.3	2917.8	2929.6	2929.6	2934.7	2870.7	2720.9	2650.1	2584.5
47.5°	2667.0	2801.7	2858.9	2848.8	2855.5	2860.6	2865.7	2791.6	2624.9	2557.5	2490.2
50°	2591.2	2734.3	2783.1	2786.5	2786.5	2798.3	2796.6	2724.2	2544.1	2471.7	2404.3
52.5°	2510.4	2665.3	2717.5	2739.4	2746.1	2751.2	2727.6	2643.4	2461.6	2374.0	2311.7
55°	2416.1	2594.6	2641.7	2670.3	2683.8	2680.4	2648.5	2562.6	2377.4	2289.8	2219.1
57.5°	2273.0	2443.0	2510.4	2523.9	2545.7	2532.3	2495.2	2422.8	2242.7	2155.1	2082.7
60°	2116.4	2239.3	2293.2	2305.0	2288.1	2293.2	2288.1	2219.1	2062.5	1993.5	1919.4
62.5°	1911.0	2020.4	2077.7	2092.8	2064.2	2082.7	2076.0	1990.1	1833.5	1761.1	1695.5
65°	1756.1	1875.6	1943.0	1951.4	1943.0	1951.4	1927.8	1823.4	1675.3	1601.2	1533.8
67.5°	1634.9	1757.8	1828.5	1852.1	1843.6	1842.0	1804.9	1683.7	1530.5	1449.7	1363.8
70°	1426.1	1533.8	1624.8	1682.0	1682.0	1650.0	1579.3	1466.5	1343.6	1274.6	1207.2
72.5°	1262.8	1399.2	1488.4	1547.3	1559.1	1540.6	1441.2	1321.7	1180.3	1111.2	1040.5
75°	1040.5	1173.5	1269.5	1347.0	1362.1	1341.9	1227.4	1109.6	978.2	910.9	840.2
77.5°	695.4	774.5	852.0	922.7	907.5	921.0	843.5	754.3	673.5	623.0	591.0
80°	392.3	444.5	468.1	506.8	506.8	506.8	456.3	414.2	368.7	340.1	308.1
82.5°	222.2	255.9	266.0	298.0	306.4	308.1	274.4	247.5	218.9	203.7	181.8
85°	102.7	121.2	122.9	141.4	148.2	161.6	146.5	128.0	111.1	104.4	90.9
87.5°	3.4	10.1	13.5	25.3	33.7	38.7	42.1	42.1	35.4	32.0	26.9
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: P639694

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8	3774.8
2.5°	3574.5	3614.9	3662.0	3695.7	3756.3	3806.8	3859.0	3916.3	3958.4	3948.3
5°	3394.3	3461.7	3547.5	3626.7	3739.5	3854.0	3980.3	4109.9	4185.7	4182.3
7.5°	3293.3	3389.3	3493.7	3599.7	3732.8	3897.8	4091.4	4293.4	4396.1	4401.2
10°	3347.2	3449.9	3520.6	3609.8	3749.6	3956.7	4189.0	4431.5	4549.3	4572.9
12.5°	3517.2	3508.8	3503.8	3567.8	3736.1	3998.8	4283.3	4572.9	4705.9	4734.6
15°	3678.9	3505.5	3401.1	3444.8	3675.5	4025.7	4375.9	4727.8	4877.7	4908.0
17.5°	3709.2	3446.5	3252.9	3283.2	3579.5	4034.1	4465.2	4879.4	5041.0	5069.6
20°	3625.0	3370.8	3145.1	3103.1	3458.3	4012.2	4520.7	5005.6	5182.4	5212.7
22.5°	3518.9	3303.4	3064.3	2954.9	3310.1	3990.4	4583.0	5138.6	5342.4	5369.3
25°	3407.8	3217.5	2988.6	2821.9	3141.8	3976.9	4687.4	5313.7	5559.6	5591.6
27.5°	3289.9	3113.2	2922.9	2757.9	2986.9	3993.7	4835.6	5596.6	5876.1	5921.6
30°	3163.7	3008.8	2880.8	2736.0	2880.8	4008.9	4998.9	5886.2	6214.5	6278.5
32.5°	3032.3	2912.8	2837.0	2746.1	2815.1	3973.5	5142.0	6211.2	6618.6	6674.2
35°	2901.0	2815.1	2781.5	2764.6	2727.6	3843.9	5258.2	6539.5	7079.9	7128.8
37.5°	2778.1	2714.1	2704.0	2722.5	2592.9	3631.7	5392.9	6957.0	7532.9	7606.9
40°	2663.6	2604.7	2603.0	2599.6	2444.7	3342.1	5574.7	7381.3	7979.0	8012.7
42.5°	2557.5	2483.5	2496.9	2456.5	2323.5	3029.0	5746.5	7743.3	8394.9	8418.5
45°	2463.2	2365.6	2380.7	2330.2	2266.3	2700.6	5898.0	8171.0	8921.9	8937.1
47.5°	2372.3	2267.9	2225.8	2222.5	2256.2	2397.6	6046.2	8994.3	9746.9	9773.9
50°	2288.1	2175.3	2055.8	2129.9	2193.9	2170.3	6231.4	9876.6	10598.9	10592.1
52.5°	2207.3	2059.2	1889.1	2032.2	2032.2	2001.9	6179.2	10412.0	11302.6	11418.8
55°	2114.7	1872.3	1715.7	1868.9	1794.8	1850.4	5254.8	10587.1	11745.5	11910.5
57.5°	1931.2	1641.6	1505.2	1587.7	1476.6	1715.7	3774.8	9718.3	10992.8	11285.8
60°	1754.4	1471.6	1382.3	1367.2	1222.4	1399.2	2446.4	7608.6	9048.2	9196.3
62.5°	1547.3	1325.1	1249.3	1133.1	983.3	1018.6	1481.7	5007.3	6079.8	6113.5
65°	1390.7	1200.5	1055.7	917.6	804.8	739.1	875.5	2414.4	3039.1	2998.7
67.5°	1193.7	1028.7	890.7	791.3	698.7	616.2	582.6	717.3	811.5	784.6
70°	1062.4	904.1	771.1	676.8	591.0	508.5	449.5	422.6	414.2	407.5
72.5°	915.9	777.9	639.8	548.9	468.1	392.3	338.4	306.4	298.0	291.3
75°	730.7	601.1	474.8	388.9	318.2	264.3	229.0	202.0	197.0	190.3
77.5°	483.2	385.6	282.9	230.7	188.6	160.0	136.4	119.5	116.2	112.8
80°	266.0	222.2	173.4	139.7	112.8	97.7	89.2	79.1	77.5	75.8
82.5°	158.3	133.0	99.3	79.1	65.7	58.9	53.9	48.8	47.1	45.5
85°	79.1	62.3	43.8	37.0	33.7	30.3	30.3	25.3	23.6	23.6
87.5°	20.2	16.8	10.1	8.4	8.4	8.4	6.7	5.1	5.1	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)