

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: P637769

Luminaire Tested: GWS-SA4D-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637769
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-SA4D-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19160 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

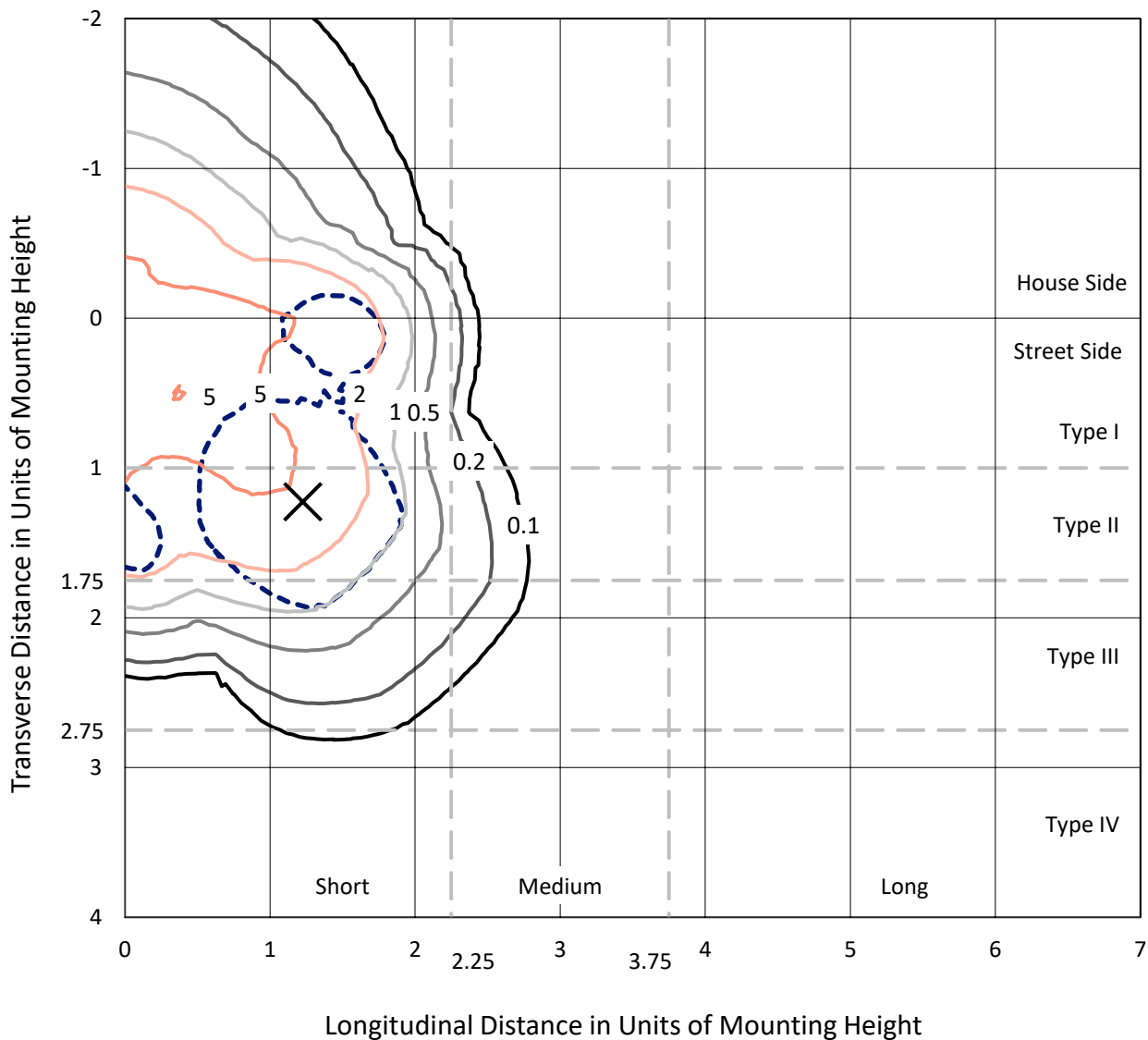
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

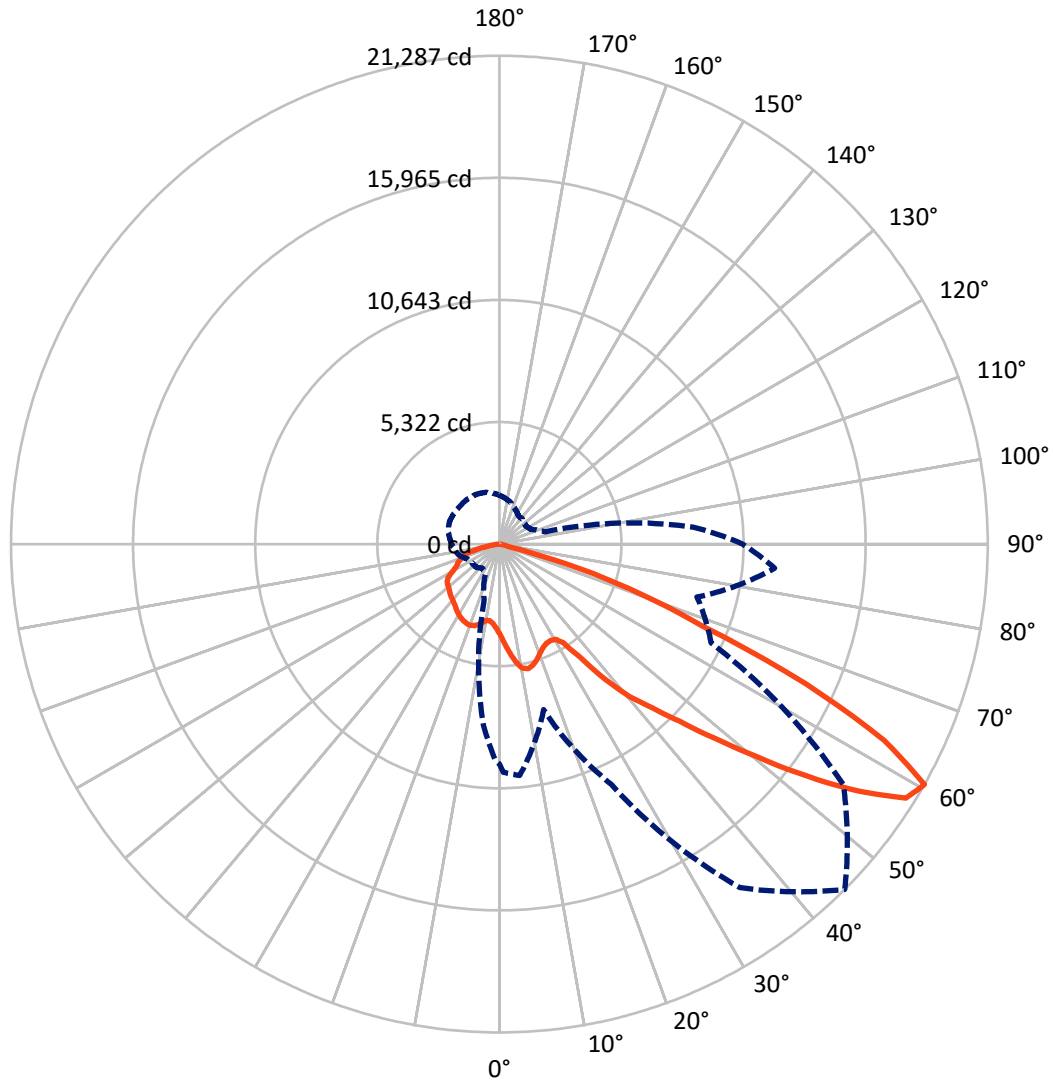
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	6716.3	0.0	6716.3
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	12443.7	0.0	12443.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	19160.0	0.0	19160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	2.0
10°-20°	1213.5	6.3
20°-30°	1971.2	10.3
30°-40°	2780.0	14.5
40°-50°	3841.9	20.1
50°-60°	4945.7	25.8
60°-70°	3133.6	16.4
70°-80°	804.1	4.2
80°-90°	86.0	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°	19160.0	100.0
0°-180°	19160.0	100.0

Coefficient of Utilization



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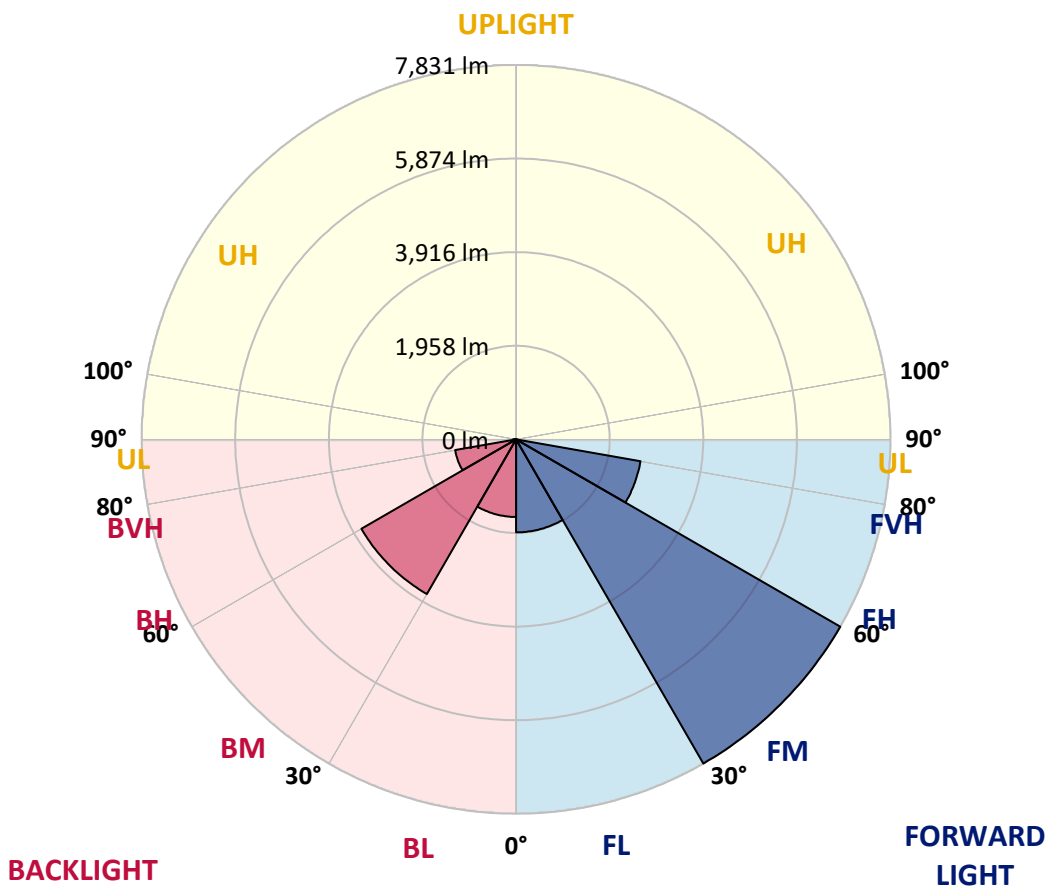
CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1945.5	10.2			
FM (30°-60°)	7831.5	40.9			
FH (60°-80°)	2643.4	13.8			G2/5000
FVH (80°-90°)	23.4	0.1			G1/100
BL (0°-30°)	1623.3	8.5	B3/2500		
BM (30°-60°)	3736.0	19.5	B3/5000		
BH (60°-80°)	1294.3	6.8	B3/2500		G3/2500
BVH (80°-90°)	62.6	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°	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0
2.5°	4116.9	4144.9	4162.5	4195.9	4255.5	4288.9	4325.8	4285.4	4295.9	4290.7	4225.7
5°	4360.9	4394.2	4439.9	4538.2	4648.8	4710.2	4768.2	4759.4	4705.0	4613.7	4548.7
7.5°	4589.1	4627.7	4706.7	4866.5	5029.8	5124.6	5194.8	5149.1	5103.5	4959.5	4796.3
10°	4768.2	4791.0	4898.1	5112.3	5301.9	5409.0	5495.0	5484.5	5421.3	5259.7	5040.3
12.5°	4936.7	4952.5	5068.4	5282.6	5452.9	5500.3	5570.5	5593.3	5572.2	5451.1	5235.2
15°	5117.5	5147.4	5254.5	5417.7	5495.0	5445.8	5470.4	5533.6	5593.3	5593.3	5394.9
17.5°	5286.1	5312.4	5421.3	5491.5	5417.7	5287.8	5294.8	5375.6	5517.8	5667.0	5540.6
20°	5435.3	5459.9	5567.0	5500.3	5266.8	5077.2	5071.9	5170.2	5400.2	5714.4	5696.9
22.5°	5598.6	5633.7	5723.2	5507.3	5126.3	4885.8	4884.0	4985.9	5296.6	5761.8	5875.9
25°	5830.3	5884.7	5930.4	5568.7	5050.8	4761.2	4784.0	4880.5	5263.2	5839.1	6141.0
27.5°	6174.4	6218.3	6214.8	5696.9	5047.3	4710.2	4757.6	4870.0	5322.9	5976.0	6420.2
30°	6546.6	6569.4	6532.5	5875.9	5128.1	4741.8	4812.1	4945.5	5473.9	6202.5	6831.0
32.5°	6959.1	6987.2	6917.0	6144.6	5315.9	4975.3	5129.8	5194.8	5686.3	6529.0	7266.4
35°	7433.2	7487.6	7341.9	6499.2	5868.9	5826.8	6051.5	5967.2	6137.5	6915.3	7731.6
37.5°	7931.7	7933.5	7724.6	7024.1	6953.9	7025.9	7475.3	7212.0	7094.3	7345.4	8205.6
40°	8354.8	8344.3	8023.0	7731.6	7898.4	8184.5	8727.0	8323.2	8014.3	7923.0	8598.9
42.5°	8777.9	8739.3	8414.5	8181.0	8549.7	9137.8	9750.5	9255.5	8604.1	8447.9	8986.8
45°	9318.7	9306.4	8914.9	8360.1	9137.8	10205.2	11018.1	10215.8	8953.5	8753.4	9632.9
47.5°	10191.2	10131.5	9402.9	8346.1	9689.1	11627.3	12654.3	11425.4	9197.5	8760.4	10675.7
50°	11044.4	10970.7	9985.8	8344.3	10257.9	13101.9	14585.4	12894.8	9446.8	8802.5	11736.1
52.5°	11906.4	11906.4	10942.6	8542.7	10854.8	14748.7	16816.8	14725.9	9871.7	9353.8	13040.5
55°	12419.0	12556.0	12018.7	8878.0	11553.5	16686.9	19023.5	16702.7	10528.3	10349.2	14244.8
57.5°	11767.7	12024.0	11946.8	8644.5	11966.1	18110.6	20895.0	18201.9	10853.0	10466.8	14064.0
60°	9589.0	9945.4	10122.7	7464.8	11558.8	18275.7	21286.5	18300.2	10182.4	8913.1	12046.8
62.5°	6374.5	6667.7	6938.1	5333.5	10006.8	16441.1	18826.9	16446.3	8504.1	6651.9	8346.1
65°	3126.7	3344.4	3635.8	3153.0	7817.6	13737.5	14678.5	13289.8	6151.6	3723.6	4257.3
67.5°	818.1	879.5	919.9	1223.6	5600.3	9869.9	9573.2	9720.7	3951.8	1216.6	1113.0
70°	424.9	428.4	426.6	505.6	3785.0	6272.7	6597.5	6104.2	2758.0	509.1	438.9
72.5°	303.7	305.5	300.2	340.6	1827.6	3593.7	3723.6	3683.2	1444.8	302.0	300.2
75°	198.4	200.1	196.6	200.1	275.6	409.1	377.5	396.8	240.5	191.4	191.4
77.5°	117.6	119.4	117.6	121.1	117.6	117.6	108.8	108.8	103.6	103.6	105.3
80°	79.0	79.0	77.2	80.8	73.7	73.7	70.2	68.5	63.2	61.4	61.4
82.5°	47.4	49.2	47.4	47.4	43.9	43.9	40.4	38.6	33.4	33.4	31.6
85°	24.6	24.6	22.8	22.8	19.3	17.6	14.0	14.0	10.5	8.8	8.8
87.5°	3.5	3.5	1.8	1.8	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°	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0
2.5°	4208.1	4173.0	4120.4	4069.5	4022.0	3972.9	3916.7	3858.8	3809.6	3758.7	3732.4
5°	4462.7	4390.7	4253.8	4132.7	4023.8	3934.3	3837.7	3755.2	3678.0	3614.8	3583.2
7.5°	4692.7	4580.3	4373.2	4181.8	4034.3	3911.4	3778.0	3655.1	3551.6	3474.3	3444.5
10°	4905.1	4771.7	4499.6	4257.3	4085.3	3948.3	3785.0	3618.3	3481.3	3379.5	3354.9
12.5°	5077.2	4924.4	4599.6	4318.7	4115.1	3967.6	3823.7	3679.7	3544.5	3412.9	3391.8
15°	5229.9	5049.1	4675.1	4357.4	4104.6	3916.7	3795.6	3778.0	3778.0	3628.8	3586.7
17.5°	5361.6	5163.2	4736.6	4374.9	4037.8	3765.7	3692.0	3844.7	4016.8	3909.7	3814.9
20°	5512.5	5272.0	4787.5	4374.9	3915.0	3574.4	3567.4	3827.2	4081.7	4083.5	3983.4
22.5°	5665.3	5398.4	4847.2	4359.1	3746.4	3353.2	3483.1	3757.0	3983.4	4080.0	4011.5
25°	5912.8	5574.0	4942.0	4346.8	3549.8	3202.2	3407.6	3663.9	3855.3	3957.1	3913.2
27.5°	6227.1	5805.7	5085.9	4366.1	3354.9	3112.7	3326.8	3542.8	3716.6	3806.1	3774.5
30°	6578.2	6072.6	5240.4	4399.5	3214.5	3067.0	3230.3	3404.1	3558.6	3648.1	3634.1
32.5°	7025.9	6362.2	5373.9	4353.9	3135.5	3044.2	3128.5	3253.1	3402.3	3458.5	3470.8
35°	7561.3	6681.8	5475.7	4174.8	3063.5	3019.6	3017.9	3095.1	3200.4	3290.0	3298.7
37.5°	8054.6	7055.7	5588.0	3867.6	2933.6	2958.2	2887.9	2933.6	3037.2	3126.7	3161.8
40°	8542.7	7434.9	5744.3	3476.1	2763.3	2821.2	2738.7	2770.3	2852.8	2970.5	3026.6
42.5°	9016.7	7777.2	5909.3	3075.8	2593.0	2629.9	2568.4	2600.0	2686.0	2833.5	2896.7
45°	9532.8	8240.7	6037.5	2698.3	2445.5	2429.7	2380.6	2426.2	2556.1	2717.6	2793.1
47.5°	10508.9	8971.0	6121.7	2447.3	2366.5	2252.4	2196.2	2294.6	2442.0	2605.3	2696.6
50°	11701.0	10027.9	6097.2	2287.5	2298.1	2069.8	2050.5	2180.4	2338.4	2508.7	2608.8
52.5°	12645.5	11065.5	5818.0	2134.8	2164.6	1954.0	1897.8	2087.4	2238.4	2412.2	2515.8
55°	13367.0	11414.8	4961.3	1954.0	1946.9	1869.7	1752.1	1990.8	2138.3	2299.8	2412.2
57.5°	12778.9	10637.1	3678.0	1704.7	1662.5	1702.9	1588.8	1827.6	2015.4	2175.2	2275.2
60°	10605.5	8481.2	2048.8	1509.8	1390.4	1488.7	1471.2	1655.5	1882.0	2050.5	2136.5
62.5°	7199.7	5647.7	1214.9	1193.8	1127.1	1267.5	1360.6	1481.7	1704.7	1841.6	1922.4
65°	3588.4	2744.0	807.6	893.6	902.4	1042.8	1218.4	1351.8	1537.9	1678.3	1759.1
67.5°	1041.1	853.2	614.5	682.9	777.7	890.1	1030.5	1188.5	1369.4	1536.1	1630.9
70°	449.4	454.7	488.1	568.8	661.9	777.7	918.2	1072.7	1225.4	1353.6	1425.5
72.5°	317.8	330.1	366.9	449.4	537.2	647.8	788.3	937.5	1048.1	1178.0	1253.5
75°	203.6	212.4	242.3	305.5	370.4	477.5	610.9	747.9	862.0	955.0	1027.0
77.5°	112.4	114.1	138.7	175.6	219.4	287.9	386.2	493.3	577.6	630.3	695.2
80°	65.0	65.0	77.2	100.1	126.4	168.5	223.0	275.6	326.5	359.9	391.5
82.5°	35.1	35.1	40.4	54.4	68.5	93.0	124.6	151.0	182.6	200.1	221.2
85°	10.5	10.5	14.0	19.3	24.6	35.1	49.2	63.2	77.2	89.5	101.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0
2.5°	3727.1	3702.5	3688.5	3670.9	3676.2	3660.4	3651.6	3656.9	3625.3	3656.9	3688.5
5°	3570.9	3535.8	3507.7	3484.8	3474.3	3453.2	3441.0	3441.0	3421.6	3453.2	3491.9
7.5°	3433.9	3405.8	3391.8	3377.7	3361.9	3342.6	3321.6	3314.5	3302.3	3335.6	3369.0
10°	3342.6	3346.1	3354.9	3374.2	3370.7	3358.4	3326.8	3309.3	3309.3	3347.9	3398.8
12.5°	3384.8	3421.6	3442.7	3477.8	3484.8	3474.3	3442.7	3428.7	3463.8	3521.7	3606.0
15°	3548.0	3572.6	3590.2	3618.3	3616.5	3607.7	3583.2	3593.7	3709.6	3821.9	3897.4
17.5°	3725.4	3697.3	3693.8	3711.3	3716.6	3706.0	3692.0	3739.4	3930.8	4036.1	4074.7
20°	3853.5	3757.0	3735.9	3742.9	3757.0	3751.7	3751.7	3828.9	4027.3	4076.5	4027.3
22.5°	3892.1	3755.2	3723.6	3725.4	3744.7	3746.4	3755.2	3836.0	3951.8	3953.6	3878.1
25°	3830.7	3699.0	3676.2	3679.7	3702.5	3700.8	3704.3	3749.9	3800.8	3779.8	3723.6
27.5°	3714.8	3600.7	3593.7	3613.0	3642.8	3627.0	3616.5	3628.8	3653.4	3627.0	3577.9
30°	3583.2	3486.6	3490.1	3527.0	3558.6	3532.2	3505.9	3512.9	3514.7	3486.6	3430.4
32.5°	3444.5	3372.5	3384.8	3423.4	3460.3	3432.2	3404.1	3400.6	3367.2	3333.9	3279.4
35°	3305.8	3277.7	3293.5	3325.1	3356.7	3333.9	3316.3	3305.8	3233.8	3184.6	3139.0
37.5°	3179.4	3200.4	3228.5	3247.8	3258.4	3256.6	3246.1	3221.5	3126.7	3068.8	3009.1
40°	3067.0	3132.0	3161.8	3170.6	3186.4	3182.9	3181.1	3146.0	3021.4	2959.9	2891.5
42.5°	2965.2	3056.5	3107.4	3116.2	3124.9	3126.7	3121.4	3070.5	2928.3	2856.3	2791.4
45°	2866.9	2986.3	3051.2	3042.4	3054.7	3054.7	3060.0	2993.3	2837.0	2763.3	2694.8
47.5°	2780.8	2921.3	2981.0	2970.5	2977.5	2982.7	2988.0	2910.8	2737.0	2666.7	2596.5
50°	2701.8	2851.1	2902.0	2905.5	2905.5	2917.8	2916.0	2840.5	2652.7	2577.2	2507.0
52.5°	2617.6	2779.1	2833.5	2856.3	2863.4	2868.6	2844.1	2756.3	2566.7	2475.4	2410.4
55°	2519.3	2705.4	2754.5	2784.4	2798.4	2794.9	2761.5	2672.0	2478.9	2387.6	2313.9
57.5°	2370.0	2547.4	2617.6	2631.6	2654.4	2640.4	2601.8	2526.3	2338.4	2247.2	2171.7
60°	2206.8	2334.9	2391.1	2403.4	2385.8	2391.1	2385.8	2313.9	2150.6	2078.6	2001.4
62.5°	1992.6	2106.7	2166.4	2182.2	2152.3	2171.7	2164.6	2075.1	1911.8	1836.3	1767.9
65°	1831.1	1955.7	2025.9	2034.7	2025.9	2034.7	2010.1	1901.3	1746.8	1669.6	1599.3
67.5°	1704.7	1832.8	1906.6	1931.1	1922.4	1920.6	1882.0	1755.6	1595.8	1511.6	1422.0
70°	1487.0	1599.3	1694.1	1753.8	1753.8	1720.5	1646.7	1529.1	1401.0	1329.0	1258.8
72.5°	1316.7	1458.9	1551.9	1613.4	1625.7	1606.4	1502.8	1378.1	1230.7	1158.7	1085.0
75°	1085.0	1223.6	1323.7	1404.5	1420.3	1399.2	1279.8	1156.9	1020.0	949.8	876.0
77.5°	725.1	807.6	888.3	962.1	946.3	960.3	879.5	786.5	702.2	649.6	616.2
80°	409.1	463.5	488.1	528.4	528.4	528.4	475.8	431.9	384.5	354.6	321.3
82.5°	231.7	266.8	277.4	310.7	319.5	321.3	286.2	258.1	228.2	212.4	189.6
85°	107.1	126.4	128.2	147.5	154.5	168.5	152.7	133.4	115.9	108.8	94.8
87.5°	3.5	10.5	14.0	26.3	35.1	40.4	43.9	43.9	36.9	33.4	28.1
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: P637769

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0	3936.0
2.5°	3727.1	3769.2	3818.4	3853.5	3916.7	3969.4	4023.8	4083.5	4127.4	4116.9
5°	3539.3	3609.5	3699.0	3781.5	3899.2	4018.5	4150.2	4285.4	4364.4	4360.9
7.5°	3433.9	3534.0	3642.8	3753.4	3892.1	4064.2	4266.1	4476.7	4583.8	4589.1
10°	3490.1	3597.2	3670.9	3764.0	3909.7	4125.6	4367.9	4620.7	4743.6	4768.2
12.5°	3667.4	3658.6	3653.4	3720.1	3895.6	4169.5	4466.2	4768.2	4906.9	4936.7
15°	3836.0	3655.1	3546.3	3591.9	3832.4	4197.6	4562.8	4929.7	5085.9	5117.5
17.5°	3867.6	3593.7	3391.8	3423.4	3732.4	4206.4	4655.8	5087.7	5256.2	5286.1
20°	3779.8	3514.7	3279.4	3235.5	3606.0	4183.6	4713.8	5219.4	5403.7	5435.3
22.5°	3669.2	3444.5	3195.2	3081.1	3451.5	4160.7	4778.7	5358.1	5570.5	5598.6
25°	3553.3	3354.9	3116.2	2942.4	3275.9	4146.7	4887.6	5540.6	5796.9	5830.3
27.5°	3430.4	3246.1	3047.7	2875.7	3114.4	4164.3	5042.0	5835.6	6127.0	6174.4
30°	3298.7	3137.2	3003.8	2852.8	3003.8	4180.1	5212.3	6137.5	6479.9	6546.6
32.5°	3161.8	3037.2	2958.2	2863.4	2935.3	4143.2	5361.6	6476.4	6901.2	6959.1
35°	3024.9	2935.3	2900.2	2882.7	2844.1	4008.0	5482.7	6818.7	7382.2	7433.2
37.5°	2896.7	2830.0	2819.5	2838.8	2703.6	3786.8	5623.1	7254.1	7854.5	7931.7
40°	2777.3	2715.9	2714.1	2710.6	2549.1	3484.8	5812.7	7696.5	8319.7	8354.8
42.5°	2666.7	2589.5	2603.5	2561.4	2422.7	3158.3	5991.8	8073.9	8753.4	8777.9
45°	2568.4	2466.6	2482.4	2429.7	2363.0	2816.0	6149.8	8519.9	9302.9	9318.7
47.5°	2473.6	2364.8	2320.9	2317.4	2352.5	2500.0	6304.3	9378.3	10163.1	10191.2
50°	2385.8	2268.2	2143.6	2220.8	2287.5	2263.0	6497.4	10298.3	11051.4	11044.4
52.5°	2301.6	2147.1	1969.8	2119.0	2119.0	2087.4	6443.0	10856.5	11785.3	11906.4
55°	2205.0	1952.2	1788.9	1948.7	1871.5	1929.4	5479.2	11039.1	12247.0	12419.0
57.5°	2013.7	1711.7	1569.5	1655.5	1539.6	1788.9	3936.0	10133.2	11462.2	11767.7
60°	1829.3	1534.4	1441.3	1425.5	1274.6	1458.9	2550.9	7933.5	9434.5	9589.0
62.5°	1613.4	1381.6	1302.6	1181.5	1025.3	1062.1	1544.9	5221.1	6339.4	6374.5
65°	1450.1	1251.7	1100.8	956.8	839.2	770.7	912.9	2517.5	3168.8	3126.7
67.5°	1244.7	1072.7	928.7	825.1	728.6	642.5	607.4	747.9	846.2	818.1
70°	1107.8	942.8	804.1	705.7	616.2	530.2	468.7	440.7	431.9	424.9
72.5°	955.0	811.1	667.1	572.3	488.1	409.1	352.9	319.5	310.7	303.7
75°	761.9	626.7	495.1	405.5	331.8	275.6	238.8	210.7	205.4	198.4
77.5°	503.9	402.0	294.9	240.5	196.6	166.8	142.2	124.6	121.1	117.6
80°	277.4	231.7	180.8	145.7	117.6	101.8	93.0	82.5	80.8	79.0
82.5°	165.0	138.7	103.6	82.5	68.5	61.4	56.2	50.9	49.2	47.4
85°	82.5	65.0	45.6	38.6	35.1	31.6	31.6	26.3	24.6	24.6
87.5°	21.1	17.6	10.5	8.8	8.8	8.8	7.0	5.3	5.3	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)