

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: P638539

Luminaire Tested: GWS-SA4F-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638539
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-SA4F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19608.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

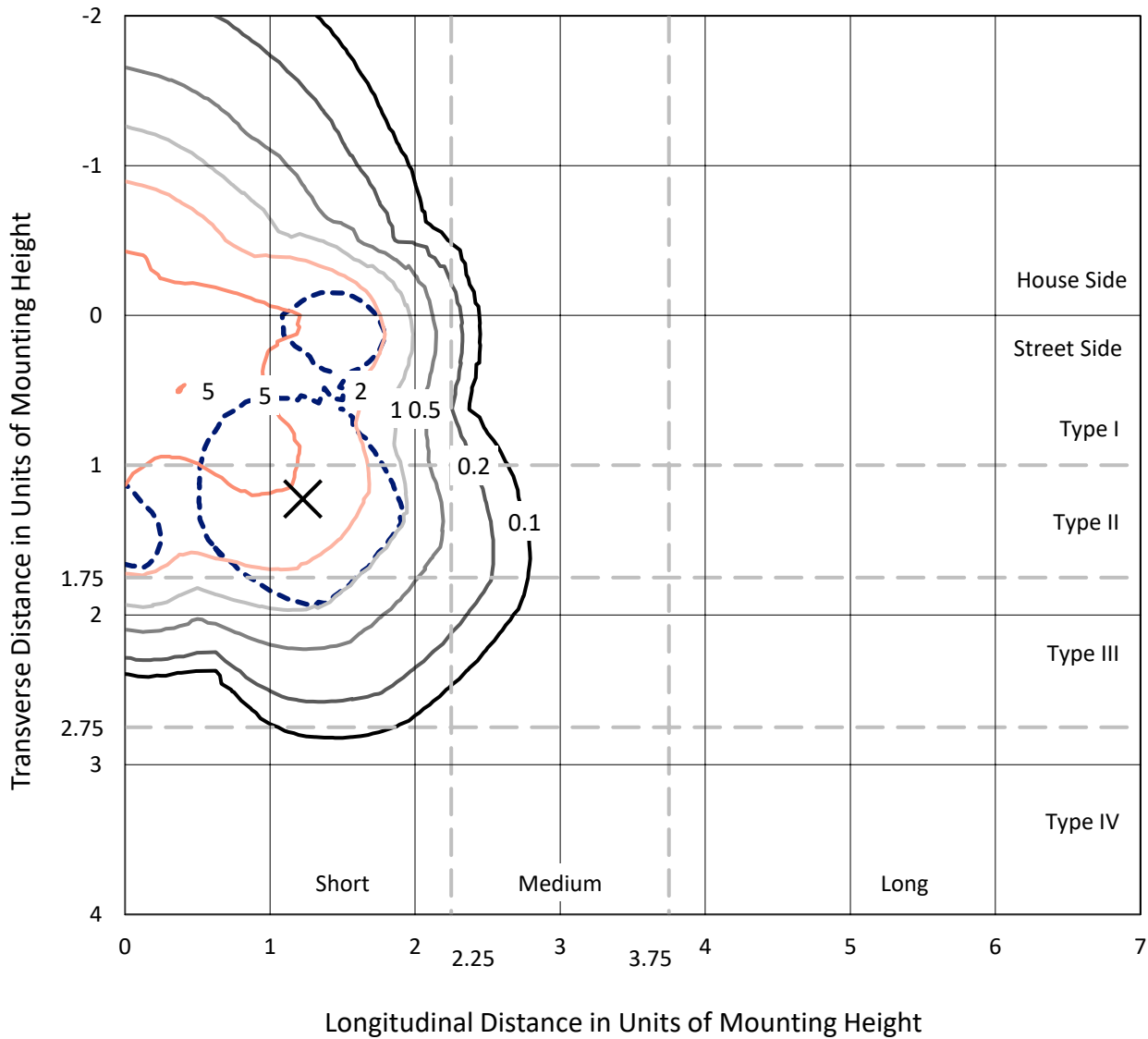
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

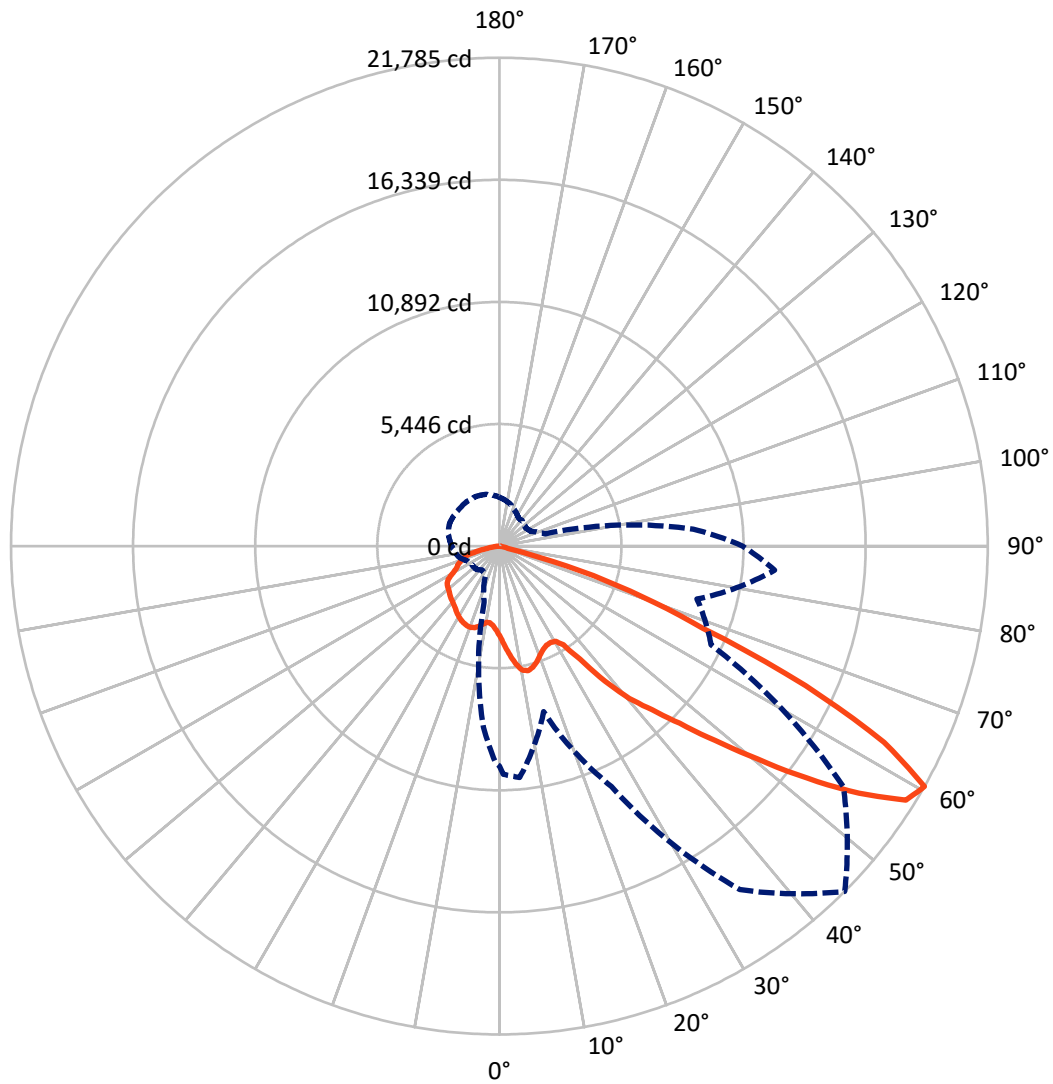
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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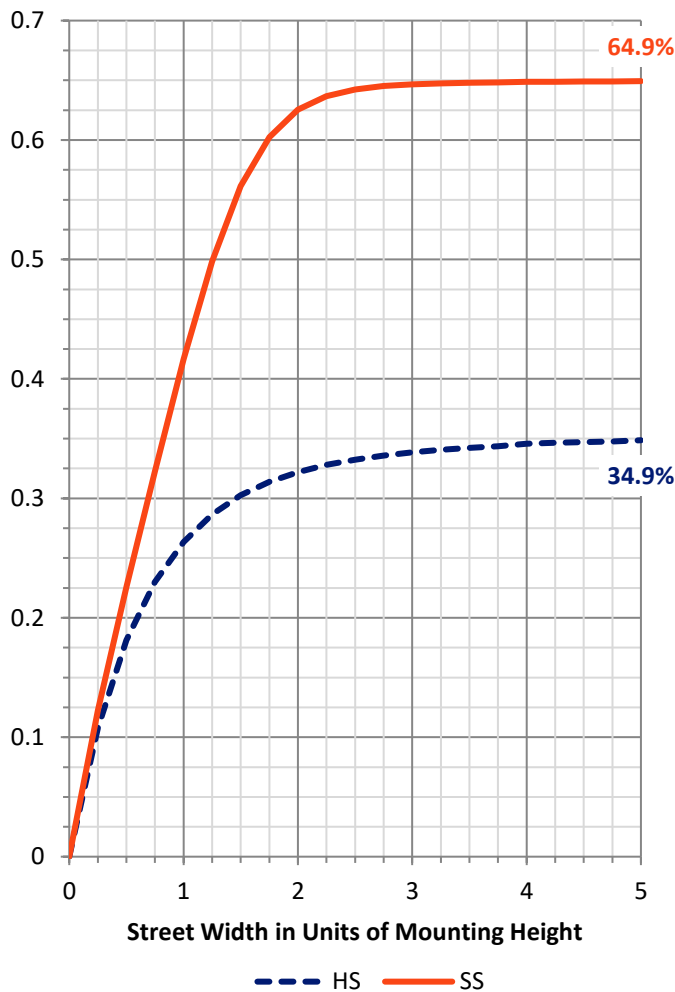
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6873.5	0.0	6873.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	12735.1	0.0	12735.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	19608.6	0.0	19608.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.0	2.0
10°-20°	1241.9	6.3
20°-30°	2017.4	10.3
30°-40°	2845.1	14.5
40°-50°	3931.8	20.1
50°-60°	5061.4	25.8
60°-70°	3207.0	16.4
70°-80°	822.9	4.2
80°-90°	88.0	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°	19608.6	100.0
0°-180°	19608.6	100.0

Coefficient of Utilization



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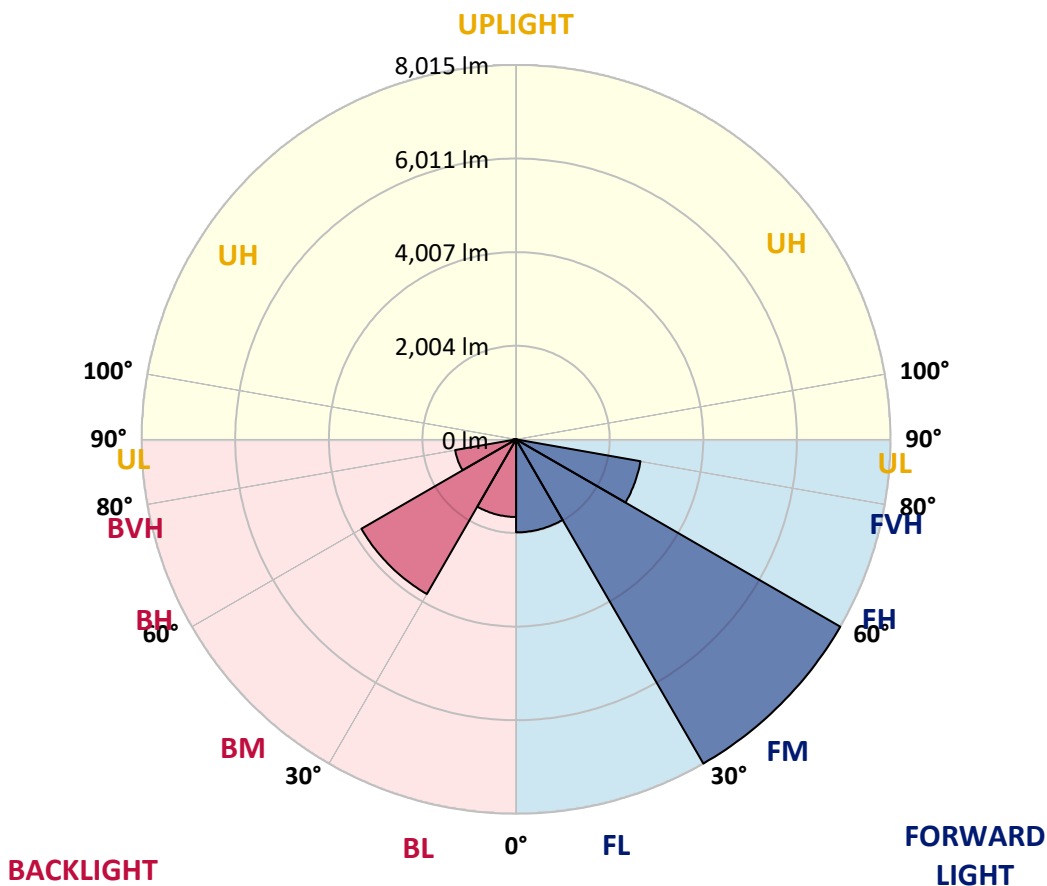
CATALOG NUMBER: GWS-SA4F-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.0	10.2			
FM (30°-60°)	8014.9	40.9			
FH (60°-80°)	2705.3	13.8			G2/5000
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1661.3	8.5	B3/2500		
BM (30°-60°)	3823.5	19.5	B3/5000		
BH (60°-80°)	1324.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	64.1	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°	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2
2.5°	4213.2	4242.0	4260.0	4294.1	4355.2	4389.3	4427.0	4385.7	4396.5	4391.1	4324.6
5°	4463.0	4497.1	4543.8	4644.4	4757.6	4820.5	4879.8	4870.8	4815.1	4721.7	4655.2
7.5°	4696.6	4736.1	4816.9	4980.4	5147.5	5244.5	5316.4	5269.7	5223.0	5075.7	4908.6
10°	4879.8	4903.2	5012.8	5232.0	5426.0	5535.6	5623.6	5612.9	5548.2	5382.9	5158.3
12.5°	5052.3	5068.5	5187.0	5406.2	5580.5	5629.0	5700.9	5724.3	5702.7	5578.7	5357.7
15°	5237.4	5267.9	5377.5	5544.6	5623.6	5573.3	5598.5	5663.2	5724.3	5724.3	5521.2
17.5°	5409.8	5436.8	5548.2	5620.0	5544.6	5411.6	5418.8	5501.5	5647.0	5799.7	5670.4
20°	5562.6	5587.7	5697.3	5629.0	5390.1	5196.0	5190.6	5291.3	5526.6	5848.2	5830.3
22.5°	5729.6	5765.6	5857.2	5636.2	5246.3	5000.2	4998.4	5102.6	5420.6	5896.7	6013.5
25°	5966.8	6022.5	6069.2	5699.1	5169.1	4872.6	4896.0	4994.8	5386.5	5975.8	6284.8
27.5°	6319.0	6363.9	6360.3	5830.3	5165.5	4820.5	4869.0	4984.0	5447.6	6115.9	6570.5
30°	6699.9	6723.2	6685.5	6013.5	5248.1	4852.9	4924.7	5061.3	5602.1	6347.7	6990.9
32.5°	7122.1	7150.8	7079.0	6288.4	5440.4	5091.8	5249.9	5316.4	5819.5	6681.9	7436.5
35°	7607.2	7662.9	7513.8	6651.4	6006.3	5963.2	6193.2	6107.0	6281.2	7077.2	7912.6
37.5°	8117.4	8119.2	7905.4	7188.6	7116.7	7190.4	7650.3	7380.8	7260.4	7517.4	8397.7
40°	8550.5	8539.7	8210.9	7912.6	8083.3	8376.2	8931.4	8518.1	8201.9	8108.5	8800.2
42.5°	8983.5	8943.9	8611.5	8372.6	8749.9	9351.8	9978.8	9472.2	8805.6	8645.7	9197.3
45°	9536.8	9524.3	9123.6	8555.8	9351.8	10444.2	11276.0	10454.9	9163.1	8958.3	9858.4
47.5°	10429.8	10368.7	9623.1	8541.5	9915.9	11899.5	12950.5	11692.9	9412.9	8965.5	10925.7
50°	11303.0	11227.5	10219.6	8539.7	10498.1	13408.7	14926.9	13196.7	9668.0	9008.6	12010.9
52.5°	12185.2	12185.2	11198.8	8742.7	11108.9	15094.0	17210.5	15070.6	10102.8	9572.8	13345.8
55°	12709.8	12849.9	12300.1	9085.9	11824.0	17077.5	19468.9	17093.7	10774.8	10591.5	14578.4
57.5°	12043.2	12305.5	12226.5	8846.9	12246.2	18534.7	21384.2	18628.1	11107.1	10711.9	14393.3
60°	9813.5	10178.3	10359.7	7639.5	11829.4	18703.6	21784.9	18728.7	10420.8	9121.8	12328.9
62.5°	6523.8	6823.8	7100.5	5458.3	10241.1	16826.0	19267.7	16831.4	8703.2	6807.7	8541.5
65°	3199.9	3422.7	3720.9	3226.9	8000.7	14059.1	15022.1	13601.0	6295.6	3810.8	4357.0
67.5°	837.3	900.1	941.5	1252.3	5731.4	10101.0	9797.4	9948.3	4044.4	1245.1	1139.1
70°	434.8	438.4	436.6	517.4	3873.7	6419.6	6752.0	6247.1	2822.6	521.0	449.2
72.5°	310.8	312.6	307.2	348.6	1870.4	3677.8	3810.8	3769.5	1478.7	309.0	307.2
75°	203.0	204.8	201.2	204.8	282.1	418.6	386.3	406.1	246.1	195.8	195.8
77.5°	120.4	122.2	120.4	124.0	120.4	120.4	111.4	111.4	106.0	106.0	107.8
80°	80.9	80.9	79.1	82.6	75.5	75.5	71.9	70.1	64.7	62.9	62.9
82.5°	48.5	50.3	48.5	48.5	44.9	44.9	41.3	39.5	34.1	34.1	32.3
85°	25.2	25.2	23.4	23.4	19.8	18.0	14.4	14.4	10.8	9.0	9.0
87.5°	3.6	3.6	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°	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2
2.5°	4306.7	4270.7	4216.8	4164.7	4116.2	4065.9	4008.4	3949.1	3898.8	3846.7	3819.8
5°	4567.2	4493.5	4353.4	4229.4	4118.0	4026.4	3927.6	3843.1	3764.1	3699.4	3667.0
7.5°	4802.6	4687.6	4475.6	4279.7	4128.8	4003.0	3866.5	3740.7	3634.7	3555.7	3525.1
10°	5020.0	4883.4	4604.9	4357.0	4180.9	4040.8	3873.7	3703.0	3562.8	3458.6	3433.5
12.5°	5196.0	5039.7	4707.3	4419.9	4211.4	4060.5	3913.2	3765.9	3627.5	3492.8	3471.2
15°	5352.3	5167.3	4784.6	4459.4	4200.7	4008.4	3884.4	3866.5	3866.5	3713.8	3670.6
17.5°	5487.1	5284.1	4847.5	4477.4	4132.4	3853.9	3778.4	3934.8	4110.8	4001.2	3904.2
20°	5641.6	5395.5	4899.6	4477.4	4006.6	3658.1	3650.9	3916.8	4177.3	4179.1	4076.7
22.5°	5797.9	5524.8	4960.7	4461.2	3834.1	3431.7	3564.6	3844.9	4076.7	4175.5	4105.4
25°	6051.3	5704.5	5057.7	4448.6	3632.9	3277.2	3487.4	3749.7	3945.5	4049.7	4004.8
27.5°	6372.9	5941.7	5205.0	4468.4	3433.5	3185.5	3404.7	3625.7	3803.6	3895.2	3862.9
30°	6732.2	6214.8	5363.1	4502.5	3289.7	3138.8	3305.9	3483.8	3641.9	3733.5	3719.2
32.5°	7190.4	6511.2	5499.7	4455.8	3208.9	3115.5	3201.7	3329.3	3482.0	3539.5	3552.1
35°	7738.3	6838.2	5603.9	4272.5	3135.2	3090.3	3088.5	3167.6	3275.4	3367.0	3376.0
37.5°	8243.2	7220.9	5718.9	3958.1	3002.3	3027.4	2955.6	3002.3	3108.3	3199.9	3235.8
40°	8742.7	7609.0	5878.8	3557.4	2828.0	2887.3	2802.8	2835.2	2919.6	3040.0	3097.5
42.5°	9227.8	7959.3	6047.7	3147.8	2653.7	2691.4	2628.6	2660.9	2748.9	2899.9	2964.5
45°	9756.0	8433.7	6178.8	2761.5	2502.8	2486.6	2436.3	2483.0	2616.0	2781.3	2858.5
47.5°	10755.0	9181.1	6265.1	2504.6	2421.9	2305.2	2247.7	2348.3	2499.2	2666.3	2759.7
50°	11974.9	10262.7	6239.9	2341.1	2351.9	2118.3	2098.5	2231.5	2393.2	2567.5	2669.9
52.5°	12941.6	11324.5	5954.2	2184.8	2215.3	1999.7	1942.2	2136.3	2290.8	2468.7	2574.7
55°	13680.0	11682.1	5077.4	1999.7	1992.5	1913.5	1793.1	2037.4	2188.4	2353.7	2468.7
57.5°	13078.1	10886.2	3764.1	1744.6	1701.5	1742.8	1626.0	1870.4	2062.6	2226.1	2328.5
60°	10853.8	8679.8	2096.7	1545.2	1423.0	1523.6	1505.6	1694.3	1926.1	2098.5	2186.6
62.5°	7368.2	5780.0	1243.3	1221.7	1153.5	1297.2	1392.4	1516.4	1744.6	1884.7	1967.4
65°	3672.4	2808.2	826.5	914.5	923.5	1067.2	1246.9	1383.5	1573.9	1717.6	1800.3
67.5°	1065.4	873.2	628.8	698.9	795.9	910.9	1054.7	1216.4	1401.4	1572.1	1669.1
70°	460.0	465.3	499.5	582.1	677.4	795.9	939.7	1097.8	1254.1	1385.2	1458.9
72.5°	325.2	337.8	375.5	460.0	549.8	663.0	806.7	959.4	1072.6	1205.6	1282.8
75°	208.4	217.4	247.9	312.6	379.1	488.7	625.2	765.4	882.2	977.4	1051.1
77.5°	115.0	116.8	141.9	179.7	224.6	294.7	395.3	504.9	591.1	645.0	711.5
80°	66.5	66.5	79.1	102.4	129.4	172.5	228.2	282.1	334.2	368.3	400.7
82.5°	35.9	35.9	41.3	55.7	70.1	95.2	127.6	154.5	186.9	204.8	226.4
85°	10.8	10.8	14.4	19.8	25.2	35.9	50.3	64.7	79.1	91.6	104.2
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°	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2
2.5°	3814.4	3789.2	3774.8	3756.9	3762.3	3746.1	3737.1	3742.5	3710.2	3742.5	3774.8
5°	3654.5	3618.5	3589.8	3566.4	3555.7	3534.1	3521.5	3521.5	3501.8	3534.1	3573.6
7.5°	3514.3	3485.6	3471.2	3456.8	3440.7	3420.9	3399.3	3392.2	3379.6	3413.7	3447.8
10°	3420.9	3424.5	3433.5	3453.2	3449.6	3437.1	3404.7	3386.8	3386.8	3426.3	3478.4
12.5°	3464.0	3501.8	3523.3	3559.2	3566.4	3555.7	3523.3	3508.9	3544.9	3604.2	3690.4
15°	3631.1	3656.3	3674.2	3703.0	3701.2	3692.2	3667.0	3677.8	3796.4	3911.4	3988.7
17.5°	3812.6	3783.8	3780.2	3798.2	3803.6	3792.8	3778.4	3827.0	4022.8	4130.6	4170.1
20°	3943.7	3844.9	3823.4	3830.5	3844.9	3839.5	3839.5	3918.6	4121.6	4171.9	4121.6
22.5°	3983.3	3843.1	3810.8	3812.6	3832.3	3834.1	3843.1	3925.8	4044.4	4046.1	3968.9
25°	3920.4	3785.6	3762.3	3765.9	3789.2	3787.4	3791.0	3837.7	3889.8	3868.3	3810.8
27.5°	3801.8	3685.0	3677.8	3697.6	3728.1	3712.0	3701.2	3713.8	3738.9	3712.0	3661.7
30°	3667.0	3568.2	3571.8	3609.6	3641.9	3614.9	3588.0	3595.2	3597.0	3568.2	3510.7
32.5°	3525.1	3451.4	3464.0	3503.5	3541.3	3512.5	3483.8	3480.2	3446.1	3411.9	3356.2
35°	3383.2	3354.4	3370.6	3402.9	3435.3	3411.9	3393.9	3383.2	3309.5	3259.2	3212.5
37.5°	3253.8	3275.4	3304.1	3323.9	3334.7	3332.9	3322.1	3296.9	3199.9	3140.6	3079.5
40°	3138.8	3205.3	3235.8	3244.8	3261.0	3257.4	3255.6	3219.7	3092.1	3029.2	2959.2
42.5°	3034.6	3128.0	3180.1	3189.1	3198.1	3199.9	3194.5	3142.4	2996.9	2923.2	2856.7
45°	2934.0	3056.2	3122.6	3113.7	3126.2	3126.2	3131.6	3063.4	2903.5	2828.0	2757.9
47.5°	2846.0	2989.7	3050.8	3040.0	3047.2	3052.6	3058.0	2978.9	2801.0	2729.2	2657.3
50°	2765.1	2917.8	2969.9	2973.5	2973.5	2986.1	2984.3	2907.0	2714.8	2637.5	2565.7
52.5°	2678.9	2844.2	2899.9	2923.2	2930.4	2935.8	2910.6	2820.8	2626.8	2533.3	2466.9
55°	2578.3	2768.7	2819.0	2849.6	2863.9	2860.3	2826.2	2734.6	2536.9	2443.5	2368.0
57.5°	2425.5	2607.0	2678.9	2693.2	2716.6	2702.2	2662.7	2585.4	2393.2	2299.8	2222.5
60°	2258.4	2389.6	2447.1	2459.7	2441.7	2447.1	2441.7	2368.0	2200.9	2127.3	2048.2
62.5°	2039.2	2156.0	2217.1	2233.3	2202.7	2222.5	2215.3	2123.7	1956.6	1879.3	1809.3
65°	1873.9	2001.5	2073.4	2082.4	2073.4	2082.4	2057.2	1945.8	1787.7	1708.7	1636.8
67.5°	1744.6	1875.7	1951.2	1976.4	1967.4	1965.6	1926.1	1796.7	1633.2	1547.0	1455.3
70°	1521.8	1636.8	1733.8	1794.9	1794.9	1760.8	1685.3	1564.9	1433.8	1360.1	1288.2
72.5°	1347.5	1493.1	1588.3	1651.2	1663.7	1644.0	1538.0	1410.4	1259.5	1185.8	1110.4
75°	1110.4	1252.3	1354.7	1437.4	1453.5	1432.0	1309.8	1184.0	1043.9	972.0	896.5
77.5°	742.0	826.5	909.1	984.6	968.4	982.8	900.1	804.9	718.7	664.8	630.6
80°	418.6	474.3	499.5	540.8	540.8	540.8	486.9	442.0	393.5	362.9	328.8
82.5°	237.2	273.1	283.9	318.0	327.0	328.8	292.9	264.1	233.6	217.4	194.0
85°	109.6	129.4	131.2	150.9	158.1	172.5	156.3	136.5	118.6	111.4	97.0
87.5°	3.6	10.8	14.4	27.0	35.9	41.3	44.9	44.9	37.7	34.1	28.7
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: P638539

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2	4028.2
2.5°	3814.4	3857.5	3907.8	3943.7	4008.4	4062.3	4118.0	4179.1	4224.0	4213.2
5°	3622.1	3694.0	3785.6	3870.1	3990.5	4112.6	4247.4	4385.7	4466.6	4463.0
7.5°	3514.3	3616.7	3728.1	3841.3	3983.3	4159.3	4366.0	4581.6	4691.2	4696.6
10°	3571.8	3681.4	3756.9	3852.1	4001.2	4222.2	4470.2	4728.9	4854.7	4879.8
12.5°	3753.3	3744.3	3738.9	3807.2	3986.9	4267.1	4570.8	4879.8	5021.8	5052.3
15°	3925.8	3740.7	3629.3	3676.0	3922.2	4295.9	4669.6	5045.1	5205.0	5237.4
17.5°	3958.1	3677.8	3471.2	3503.5	3819.8	4304.9	4764.8	5206.8	5379.3	5409.8
20°	3868.3	3597.0	3356.2	3311.3	3690.4	4281.5	4824.1	5341.6	5530.2	5562.6
22.5°	3755.1	3525.1	3270.0	3153.2	3532.3	4258.2	4890.6	5483.5	5700.9	5729.6
25°	3636.5	3433.5	3189.1	3011.3	3352.6	4243.8	5002.0	5670.4	5932.7	5966.8
27.5°	3510.7	3322.1	3119.1	2943.0	3187.3	4261.8	5160.1	5972.2	6270.5	6319.0
30°	3376.0	3210.7	3074.1	2919.6	3074.1	4277.9	5334.4	6281.2	6631.6	6699.9
32.5°	3235.8	3108.3	3027.4	2930.4	3004.1	4240.2	5487.1	6628.0	7062.8	7122.1
35°	3095.7	3004.1	2968.1	2950.2	2910.6	4101.8	5611.1	6978.3	7555.1	7607.2
37.5°	2964.5	2896.3	2885.5	2905.2	2766.9	3875.5	5754.8	7423.9	8038.4	8117.4
40°	2842.4	2779.5	2777.7	2774.1	2608.8	3566.4	5948.8	7876.7	8514.5	8550.5
42.5°	2729.2	2650.1	2664.5	2621.4	2479.4	3232.2	6132.1	8263.0	8958.3	8983.5
45°	2628.6	2524.4	2540.5	2486.6	2418.3	2881.9	6293.8	8719.3	9520.7	9536.8
47.5°	2531.5	2420.1	2375.2	2371.6	2407.6	2558.5	6451.9	9597.9	10401.0	10429.8
50°	2441.7	2321.3	2193.8	2272.8	2341.1	2315.9	6649.6	10539.4	11310.2	11303.0
52.5°	2355.5	2197.4	2015.9	2168.6	2168.6	2136.3	6593.9	11110.7	12061.2	12185.2
55°	2256.6	1997.9	1830.8	1994.3	1915.3	1974.6	5607.5	11297.6	12533.7	12709.8
57.5°	2060.8	1751.8	1606.2	1694.3	1575.7	1830.8	4028.2	10370.5	11730.6	12043.2
60°	1872.2	1570.3	1475.1	1458.9	1304.4	1493.1	2610.6	8119.2	9655.4	9813.5
62.5°	1651.2	1414.0	1333.1	1209.2	1049.3	1087.0	1581.1	5343.4	6487.9	6523.8
65°	1484.1	1281.0	1126.5	979.2	858.8	788.7	934.3	2576.5	3243.0	3199.9
67.5°	1273.9	1097.8	950.4	844.4	745.6	657.6	621.7	765.4	866.0	837.3
70°	1133.7	964.8	822.9	722.3	630.6	542.6	479.7	451.0	442.0	434.8
72.5°	977.4	830.1	682.7	585.7	499.5	418.6	361.1	327.0	318.0	310.8
75°	779.8	641.4	506.7	415.0	339.6	282.1	244.3	215.6	210.2	203.0
77.5°	515.7	411.4	301.8	246.1	201.2	170.7	145.5	127.6	124.0	120.4
80°	283.9	237.2	185.1	149.1	120.4	104.2	95.2	84.4	82.6	80.9
82.5°	168.9	141.9	106.0	84.4	70.1	62.9	57.5	52.1	50.3	48.5
85°	84.4	66.5	46.7	39.5	35.9	32.3	32.3	27.0	25.2	25.2
87.5°	21.6	18.0	10.8	9.0	9.0	9.0	7.2	5.4	5.4	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)