

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: P641291

Luminaire Tested: GWS-SA5F-750-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40425.3 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

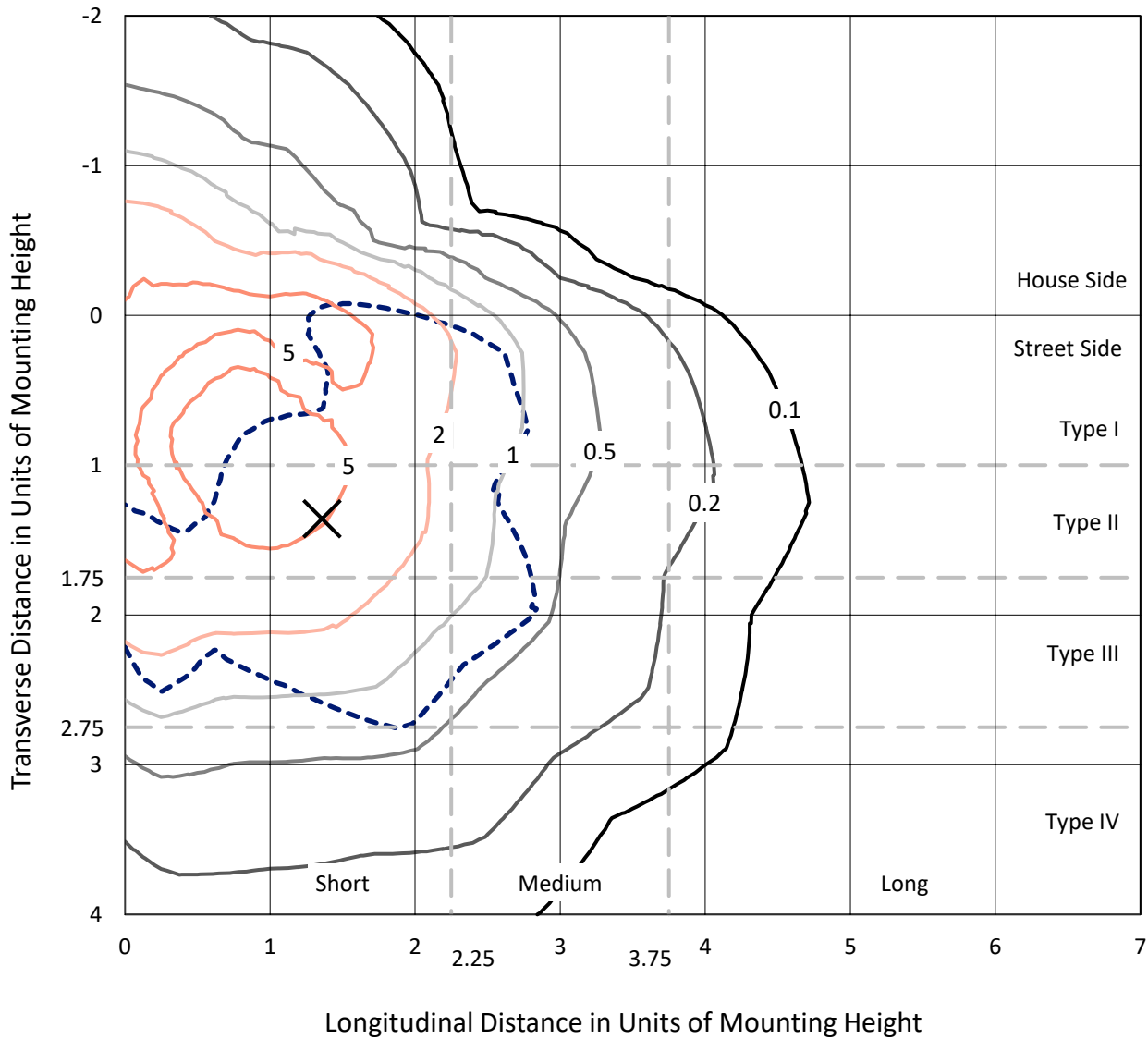
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

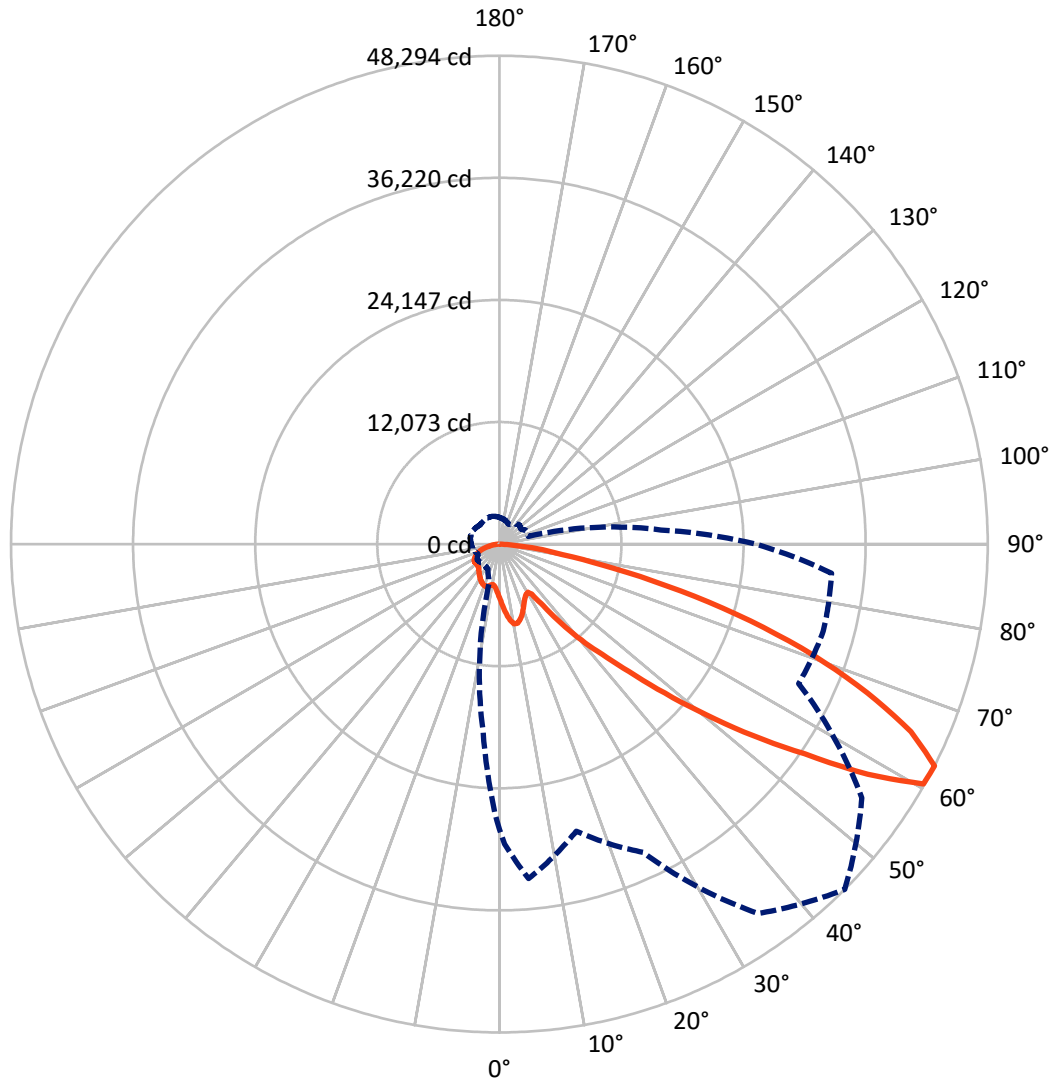
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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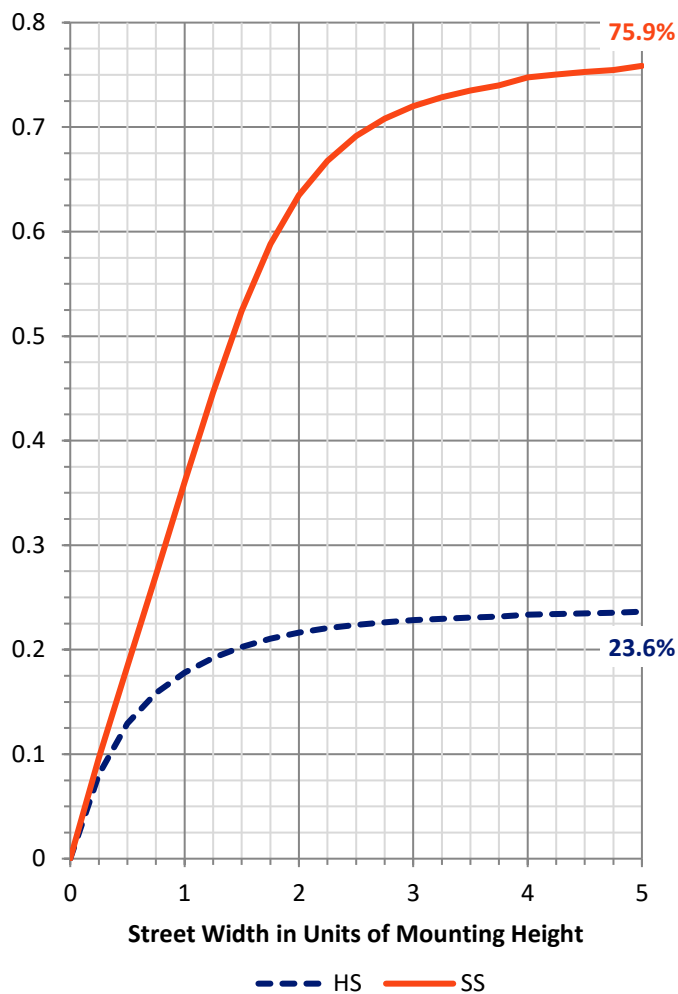
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9646.2	0.0	9646.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	30779.1	0.0	30779.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	40425.3	0.0	40425.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.0	1.3
10°-20°	1642.6	4.1
20°-30°	2551.4	6.3
30°-40°	3464.1	8.6
40°-50°	5490.2	13.6
50°-60°	9684.7	24.0
60°-70°	10775.8	26.7
70°-80°	5465.1	13.5
80°-90°	827.5	2.0
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°	40425.3	100.0
0°-180°	40425.3	100.0

Coefficient of Utilization



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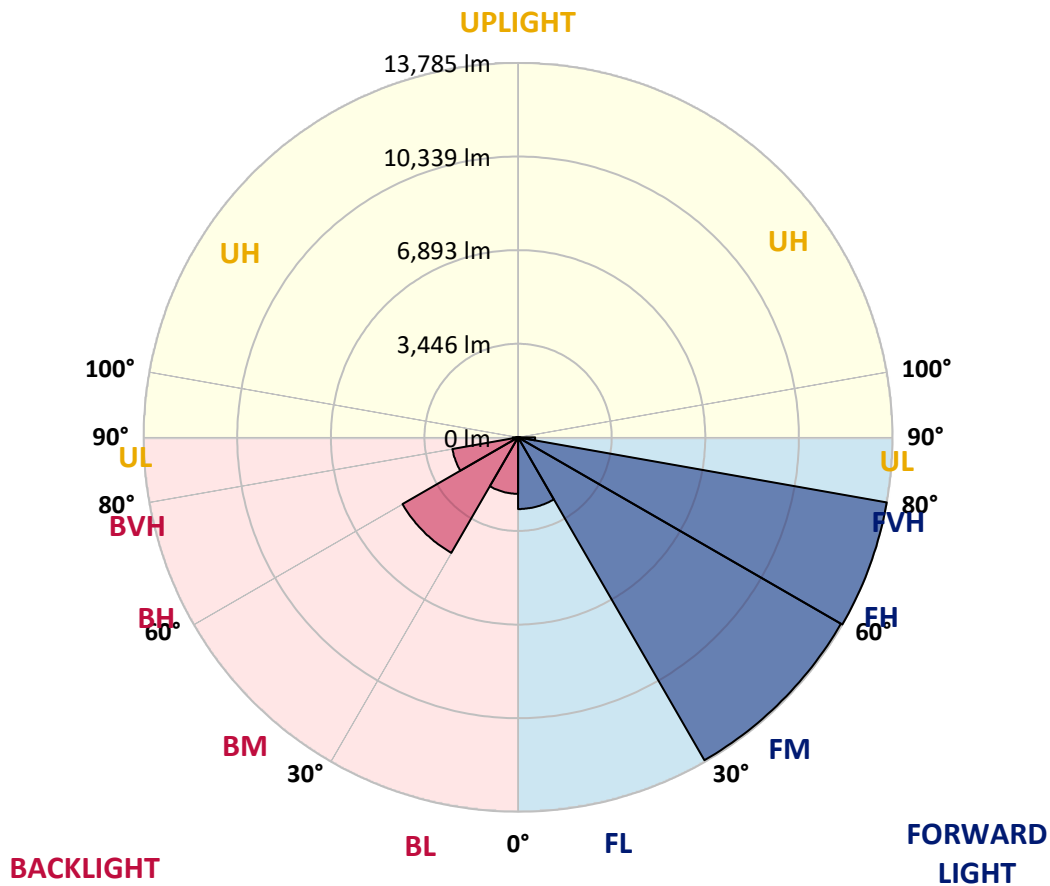
CATALOG NUMBER: GWS-SA5F-750-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2639.4	6.5			
FM (30°-60°)	13726.1	34.0			
FH (60°-80°)	13785.4	34.1			G5
FVH (80°-90°)	628.1	1.6			G4/750
BL (0°-30°)	2078.5	5.1	B3/2500		
BM (30°-60°)	4912.9	12.2	B3/5000		
BH (60°-80°)	2455.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	199.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3
2.5°	5766.2	5763.1	5821.3	5910.1	5992.7	6029.4	6090.6	6084.5	6035.5	5971.3	5949.8
5°	6219.2	6231.4	6332.4	6528.3	6745.6	6837.4	6877.2	6861.9	6773.1	6659.9	6461.0
7.5°	6629.3	6650.7	6806.8	7100.6	7370.0	7492.4	7590.3	7572.0	7443.4	7232.2	6938.4
10°	6929.2	6953.7	7140.4	7486.3	7786.2	7893.3	8018.8	8024.9	7911.7	7627.1	7327.1
12.5°	7229.2	7253.7	7428.1	7743.4	7939.2	7942.3	8015.8	8055.5	8061.7	7930.1	7630.1
15°	7541.4	7562.8	7721.9	7899.5	7890.3	7718.9	7718.9	7795.4	7963.7	8058.6	7850.5
17.5°	7807.6	7835.2	7957.6	7899.5	7627.1	7317.9	7281.2	7379.1	7673.0	8037.2	8015.8
20°	8028.0	8049.4	8116.8	7731.1	7235.3	6831.3	6760.9	6874.1	7272.0	7905.6	8141.2
22.5°	8239.2	8251.4	8214.7	7510.8	6812.9	6350.8	6265.1	6384.4	6812.9	7673.0	8248.4
25°	8490.2	8477.9	8303.5	7281.2	6427.3	5971.3	5882.5	6017.2	6464.0	7363.8	8364.7
27.5°	8780.9	8735.0	8380.0	7033.3	6130.4	5689.7	5628.5	5772.3	6188.6	7079.2	8456.5
30°	9028.8	8940.1	8392.2	6812.9	5977.4	5570.3	5533.6	5668.3	6053.9	6886.4	8572.8
32.5°	9304.3	9181.9	8462.6	6754.8	6063.1	5858.0	5907.0	5916.2	6090.6	6831.3	8747.2
35°	9699.1	9539.9	8655.4	6923.1	6944.5	7290.4	7467.9	7229.2	6644.6	6953.7	9077.8
37.5°	10295.9	10093.9	9047.2	7651.5	8765.6	9539.9	9968.4	9423.6	8327.9	7415.9	9576.7
40°	11021.3	10764.2	9549.1	8998.2	10467.3	11706.9	12469.0	11670.1	10060.3	8569.7	10277.6
42.5°	12034.3	11765.0	10522.4	10320.4	12043.5	13889.1	14883.8	13693.2	11587.5	10060.3	11400.8
45°	13800.3	13540.2	12306.7	11645.7	13889.1	16576.3	17971.9	16316.2	13139.2	11556.9	13500.4
47.5°	17062.9	16756.9	14957.2	13114.7	15994.8	20065.4	22018.1	19606.3	14752.2	13270.8	17026.2
50°	20980.5	20686.7	18284.1	14853.2	18320.9	23796.3	26511.1	23471.9	16610.0	15355.1	21240.7
52.5°	25693.9	25638.8	23031.1	17050.7	20741.8	27775.1	31496.8	27753.7	18645.3	18161.7	26015.3
55°	29942.0	30480.7	29060.6	20402.1	23869.8	32773.1	36623.4	32424.2	21406.0	22801.6	31607.0
57.5°	32231.4	33679.0	35861.3	27239.5	28417.8	38747.4	42949.6	38126.1	26149.9	30526.6	36791.7
60°	30719.4	32359.9	36314.2	32387.5	32929.2	43534.2	48171.1	42919.0	30808.2	35888.8	36497.9
62.5°	28203.6	29675.7	33192.4	29381.9	33627.0	44587.1	48293.5	43754.6	32659.9	33167.9	32969.0
65°	25219.5	26703.9	30428.7	25648.0	31408.1	42086.6	44730.9	41296.9	29333.0	29966.5	30040.0
67.5°	21256.0	22627.1	26419.3	22804.7	28629.0	38416.9	39261.6	37795.6	27013.0	28023.0	26967.1
70°	15881.5	17118.0	20466.4	18532.0	24133.0	33636.2	32953.7	33171.0	24408.4	25412.3	22526.1
72.5°	10853.0	11783.4	14654.2	14562.4	18480.0	26927.3	25975.5	28035.3	20386.8	21718.1	17173.1
75°	7590.3	8315.7	10592.8	11504.9	13968.7	19958.3	18498.4	20983.6	15921.3	17822.0	12530.2
77.5°	4658.3	5138.8	6690.5	8523.8	8986.0	13659.5	11489.6	15789.7	11180.4	12998.4	8358.5
80°	2329.1	2561.7	3250.4	5359.1	5959.0	8049.4	6344.7	9166.6	7565.8	8049.4	4624.6
82.5°	703.9	777.4	951.9	2035.3	3088.2	4633.8	3749.3	5325.5	4131.8	3773.7	1821.1
85°	186.7	211.2	263.2	602.9	1083.5	1661.9	1267.1	2580.1	1980.2	1392.6	685.6
87.5°	15.3	15.3	12.2	12.2	6.1	0.0	0.0	183.6	370.3	211.2	119.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3
2.5°	5842.7	5830.5	5705.0	5613.2	5506.1	5402.0	5294.9	5200.0	5092.9	4985.7	4955.1
5°	6314.1	6228.4	5962.1	5738.7	5518.3	5325.5	5157.1	4982.7	4841.9	4704.2	4652.1
7.5°	6730.3	6580.3	6194.7	5855.0	5548.9	5310.2	5062.3	4808.2	4609.3	4413.4	4364.4
10°	7106.8	6907.8	6421.2	5992.7	5653.0	5380.6	5089.8	4750.1	4462.4	4223.7	4159.4
12.5°	7385.3	7168.0	6617.1	6124.3	5738.7	5432.6	5144.9	4845.0	4542.0	4232.8	4162.4
15°	7605.6	7379.1	6779.3	6225.3	5741.7	5346.9	5068.4	4964.3	4869.4	4566.4	4437.9
17.5°	7783.2	7544.4	6920.1	6286.5	5659.1	5086.7	4845.0	4998.0	5239.8	5050.0	4808.2
20°	7945.4	7703.6	7027.2	6329.4	5475.4	4728.7	4594.0	4918.4	5282.6	5276.5	5059.2
22.5°	8122.9	7887.2	7183.3	6353.8	5218.4	4364.4	4444.0	4802.1	5099.0	5187.7	5053.1
25°	8349.4	8141.2	7400.6	6408.9	4927.6	4113.5	4333.8	4652.1	4900.0	4921.5	4841.9
27.5°	8612.6	8456.5	7725.0	6537.5	4646.0	3984.9	4205.3	4441.0	4667.4	4676.6	4581.7
30°	8900.3	8796.2	8024.9	6644.6	4434.8	3945.1	4040.0	4229.8	4373.6	4398.1	4315.5
32.5°	9267.6	9175.7	8291.2	6574.2	4309.3	3936.0	3887.0	3984.9	4104.3	4104.3	4040.0
35°	9772.6	9644.0	8572.8	6304.9	4156.3	3899.2	3724.8	3752.3	3804.3	3813.5	3776.8
37.5°	10488.7	10277.6	8857.4	5772.3	3905.3	3767.6	3538.1	3504.4	3522.8	3547.3	3538.1
40°	11376.3	11030.5	9273.7	5132.7	3605.4	3513.6	3345.3	3281.0	3265.7	3314.6	3333.0
42.5°	12493.4	11964.0	9720.5	4535.8	3333.0	3222.8	3118.8	3063.7	3039.2	3121.8	3170.8
45°	14277.8	13405.5	10149.0	3945.1	3180.0	2974.9	2904.5	2864.7	2877.0	2974.9	3036.1
47.5°	17359.8	15606.1	10556.1	3571.7	3167.7	2797.4	2711.7	2720.9	2754.6	2858.6	2932.1
50°	21259.1	18553.5	10828.5	3415.6	3204.5	2690.3	2577.0	2626.0	2678.0	2779.0	2864.7
52.5°	25228.7	21298.8	10504.0	3330.0	3201.4	2693.3	2451.6	2598.5	2622.9	2723.9	2815.8
55°	27958.7	21604.9	9074.7	3198.3	3152.4	2815.8	2353.6	2586.2	2601.5	2693.3	2776.0
57.5°	28999.4	20558.2	6920.1	3235.1	3005.5	2910.6	2310.8	2500.5	2610.7	2690.3	2776.0
60°	27741.4	18584.1	4205.3	3330.0	2769.9	2904.5	2338.3	2344.4	2534.2	2668.9	2754.6
62.5°	25369.5	16049.9	2953.5	3060.6	2598.5	2742.3	2402.6	2160.8	2399.5	2561.7	2638.3
65°	22651.6	13068.8	2252.6	2635.2	2515.8	2491.3	2424.0	1998.6	2215.9	2375.0	2442.4
67.5°	19820.6	10158.2	1830.2	1964.9	2274.0	2252.6	2215.9	1854.7	1998.6	2111.8	2188.3
70°	16254.9	7106.8	1545.6	1475.2	1949.6	2020.0	1937.4	1674.2	1720.1	1836.4	1897.6
72.5°	11890.5	4428.7	1270.2	1218.1	1567.0	1766.0	1723.1	1475.2	1496.6	1606.8	1655.8
75°	8551.4	2534.2	1019.2	1003.9	1196.7	1511.9	1426.2	1270.2	1294.6	1377.3	1410.9
77.5°	5435.7	1410.9	786.6	808.0	857.0	1129.4	1218.1	1086.5	1086.5	1135.5	1163.0
80°	2910.6	808.0	575.4	584.6	599.9	863.1	961.0	841.7	841.7	808.0	841.7
82.5°	1187.5	465.2	394.8	367.3	400.9	590.7	673.3	535.6	560.1	505.0	517.2
85°	391.8	232.6	195.9	192.8	189.8	260.2	324.4	266.3	318.3	202.0	211.2
87.5°	52.0	42.8	24.5	18.4	21.4	9.2	18.4	21.4	21.4	15.3	15.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3
2.5°	4933.7	4909.2	4820.5	4841.9	4826.6	4802.1	4826.6	4780.7	4817.4	4829.7	4906.2
5°	4612.4	4554.2	4468.5	4425.7	4416.5	4392.0	4395.0	4373.6	4379.7	4431.8	4517.5
7.5°	4324.7	4269.6	4202.2	4171.6	4144.1	4116.5	4113.5	4110.4	4134.9	4180.8	4263.4
10°	4116.5	4085.9	4058.4	4070.6	4058.4	4046.1	4024.7	4024.7	4064.5	4147.1	4248.1
12.5°	4116.5	4110.4	4116.5	4153.3	4150.2	4153.3	4125.7	4141.0	4251.2	4392.0	4535.8
15°	4336.9	4287.9	4287.9	4306.3	4300.2	4300.2	4300.2	4364.4	4615.4	4832.7	4985.7
17.5°	4606.2	4462.4	4401.2	4392.0	4388.9	4388.9	4401.2	4538.9	4930.7	5160.2	5249.0
20°	4792.9	4520.5	4419.5	4379.7	4382.8	4388.9	4425.7	4615.4	5047.0	5163.3	5141.8
22.5°	4826.6	4474.6	4352.2	4294.0	4303.2	4309.3	4364.4	4566.4	4887.8	4906.2	4863.3
25°	4670.5	4346.1	4214.5	4168.6	4180.8	4177.7	4226.7	4373.6	4603.2	4597.0	4572.6
27.5°	4437.9	4141.0	4043.1	4012.5	4033.9	4009.4	4024.7	4138.0	4315.5	4309.3	4300.2
30°	4199.2	3942.1	3853.3	3838.0	3865.6	3828.8	3831.9	3926.8	4049.2	4043.1	4040.0
32.5°	3960.4	3743.1	3663.6	3663.6	3691.1	3651.3	3657.4	3740.1	3822.7	3798.2	3798.2
35°	3734.0	3580.9	3516.6	3504.4	3525.8	3498.3	3510.5	3587.0	3617.7	3584.0	3562.6
37.5°	3535.0	3467.7	3403.4	3360.6	3363.6	3366.7	3403.4	3461.6	3443.2	3394.2	3366.7
40°	3351.4	3351.4	3290.2	3210.6	3201.4	3222.8	3284.0	3348.3	3296.3	3241.2	3207.5
42.5°	3219.8	3247.3	3189.2	3109.6	3091.2	3128.0	3195.3	3241.2	3180.0	3118.8	3072.9
45°	3097.3	3164.7	3124.9	3036.1	3011.6	3054.5	3140.2	3158.6	3075.9	3017.8	2984.1
47.5°	3011.6	3103.5	3075.9	2990.2	2953.5	3014.7	3103.5	3100.4	2996.3	2935.1	2907.6
50°	2950.4	3066.7	3063.7	2990.2	2950.4	3027.0	3106.5	3066.7	2953.5	2889.2	2861.7
52.5°	2901.5	3063.7	3085.1	3042.3	3014.7	3082.0	3131.0	3054.5	2922.9	2855.6	2834.1
55°	2880.0	3075.9	3091.2	3051.4	3027.0	3088.2	3131.0	3079.0	2922.9	2861.7	2843.3
57.5°	2886.2	3060.6	3063.7	3008.6	2965.7	3042.3	3109.6	3094.3	2956.6	2886.2	2864.7
60°	2849.4	2978.0	2984.1	2898.4	2849.4	2941.3	3060.6	3051.4	2941.3	2867.8	2828.0
62.5°	2727.0	2840.3	2843.3	2763.7	2693.3	2825.0	2956.6	2953.5	2852.5	2779.0	2733.1
65°	2521.9	2641.3	2671.9	2595.4	2540.3	2681.1	2818.8	2812.7	2711.7	2644.4	2598.5
67.5°	2267.9	2396.5	2454.6	2402.6	2381.2	2509.7	2638.3	2635.2	2552.6	2488.3	2448.5
70°	1958.8	2065.9	2163.9	2163.9	2148.6	2295.5	2433.2	2420.9	2344.4	2295.5	2264.9
72.5°	1701.7	1784.3	1814.9	1845.6	1891.5	2044.5	2160.8	2170.0	2114.9	2090.4	2114.9
75°	1447.7	1499.7	1527.2	1502.8	1582.3	1741.5	1894.5	1909.8	1851.7	1811.9	1821.1
77.5°	1190.6	1248.7	1276.3	1221.2	1215.1	1417.1	1603.8	1637.4	1588.5	1527.2	1545.6
80°	860.0	936.5	982.5	945.7	933.5	1022.2	1279.3	1316.1	1270.2	1221.2	1248.7
82.5°	526.4	569.3	581.5	618.2	694.8	731.5	823.3	945.7	912.1	869.2	945.7
85°	208.1	247.9	275.5	312.2	364.2	431.5	508.1	606.0	550.9	532.5	627.4
87.5°	12.2	3.1	0.0	6.1	52.0	101.0	217.3	299.9	251.0	269.3	324.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3
2.5°	4967.4	5047.0	5154.1	5242.8	5356.1	5463.2	5573.4	5683.6	5741.7	5766.2
5°	4615.4	4762.3	4933.7	5123.5	5343.8	5576.4	5812.1	6053.9	6206.9	6219.2
7.5°	4404.2	4615.4	4851.1	5089.8	5362.2	5683.6	6057.0	6430.4	6586.4	6629.3
10°	4471.6	4707.2	4893.9	5117.4	5417.3	5818.2	6259.0	6696.6	6877.2	6929.2
12.5°	4740.9	4786.8	4845.0	5050.0	5417.3	5934.5	6467.1	6987.4	7180.2	7229.2
15°	4964.3	4744.0	4639.9	4857.2	5343.8	6035.5	6687.4	7262.8	7495.5	7541.4
17.5°	4982.7	4603.2	4376.7	4572.6	5215.3	6105.9	6898.6	7568.9	7764.8	7807.6
20°	4796.0	4453.2	4159.4	4278.7	5040.8	6136.5	7051.7	7792.3	7985.2	8028.0
22.5°	4584.8	4330.8	4012.5	4006.3	4829.7	6170.2	7235.3	8003.5	8211.6	8239.2
25°	4385.9	4162.4	3893.1	3807.4	4584.8	6234.5	7483.2	8321.8	8481.0	8490.2
27.5°	4153.3	3981.9	3798.2	3715.6	4370.6	6356.9	7850.5	8701.3	8796.2	8780.9
30°	3942.1	3813.5	3730.9	3706.4	4235.9	6448.7	8199.4	9074.7	9080.9	9028.8
32.5°	3718.7	3669.7	3669.7	3749.3	4125.7	6427.3	8484.0	9438.9	9380.8	9304.3
35°	3519.7	3528.9	3593.2	3779.9	3942.1	6213.1	8756.4	9895.0	9809.3	9699.1
37.5°	3330.0	3400.3	3492.2	3672.7	3700.3	5894.7	9074.7	10540.8	10433.6	10295.9
40°	3167.7	3274.9	3382.0	3470.7	3443.2	5441.8	9518.5	11299.8	11180.4	11021.3
42.5°	3039.2	3143.3	3262.6	3271.8	3281.0	4970.4	9989.9	12230.2	12208.8	12034.3
45°	2956.6	3023.9	3137.1	3121.8	3271.8	4450.1	10424.5	13650.4	13931.9	13800.3
47.5°	2901.5	2953.5	2965.7	3030.0	3351.4	3984.9	10984.6	16429.4	17212.9	17062.9
50°	2870.9	2922.9	2785.2	3036.1	3363.6	3685.0	11758.9	19918.5	21179.5	20980.5
52.5°	2867.8	2855.6	2647.4	3100.4	3296.3	3501.3	12162.9	22464.9	25262.3	25693.9
55°	2873.9	2720.9	2577.0	3118.8	3161.6	3434.0	10810.1	23689.2	29030.0	29942.0
57.5°	2818.8	2574.0	2616.8	3045.3	2907.6	3614.6	7991.3	23251.5	30535.8	32231.4
60°	2714.8	2433.2	2690.3	2846.4	2647.4	3305.5	5503.0	21298.8	28974.9	30719.4
62.5°	2564.8	2335.3	2681.1	2589.3	2552.6	2705.6	3782.9	18565.7	26498.8	28203.6
65°	2396.5	2255.7	2537.3	2341.4	2362.8	2081.2	2675.0	15480.6	23542.3	25219.5
67.5°	2215.9	2206.7	2326.1	2084.3	1995.5	1649.7	1949.6	12407.7	19744.0	21256.0
70°	2010.8	2078.2	2114.9	1851.7	1619.1	1294.6	1447.7	8676.9	14565.5	15881.5
72.5°	1805.8	1811.9	1863.9	1609.9	1212.0	1037.5	1086.5	5255.1	9895.0	10853.0
75°	1597.6	1539.5	1588.5	1309.9	902.9	850.9	838.6	3247.3	6834.4	7590.3
77.5°	1374.2	1309.9	1245.7	985.5	725.4	658.0	642.7	1821.1	4193.0	4658.3
80°	1117.1	1031.4	930.4	722.3	529.5	471.3	468.3	887.6	2090.4	2329.1
82.5°	869.2	707.0	679.5	449.9	327.5	287.7	306.1	339.7	630.5	703.9
85°	609.1	514.2	361.2	180.6	146.9	119.4	116.3	101.0	168.3	186.7
87.5°	339.7	223.4	116.3	21.4	24.5	27.5	21.4	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)