

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: P640796

Luminaire Tested: GWS-SA5E-750-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640796
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-SA5E-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: 36359.6 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

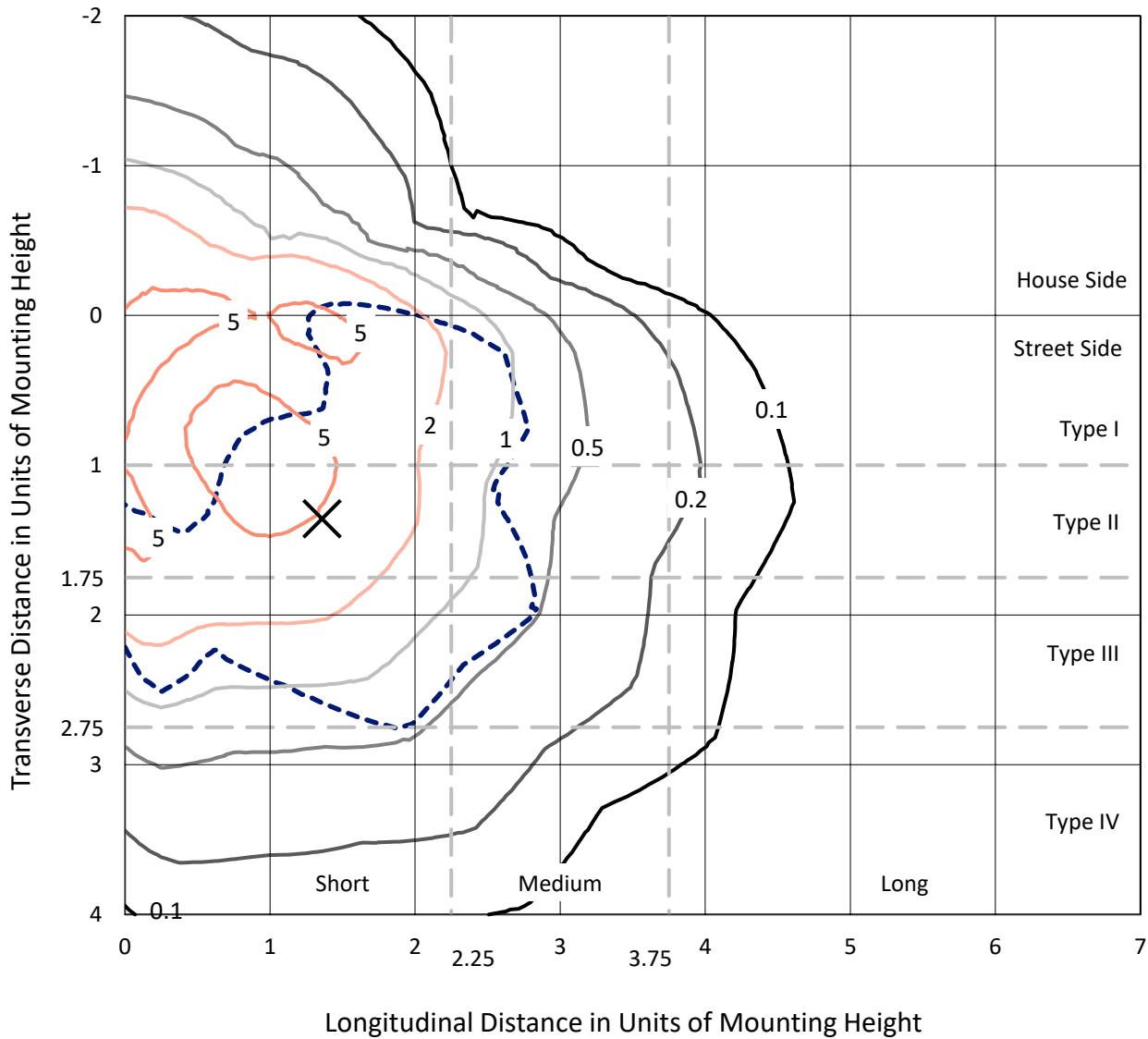
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

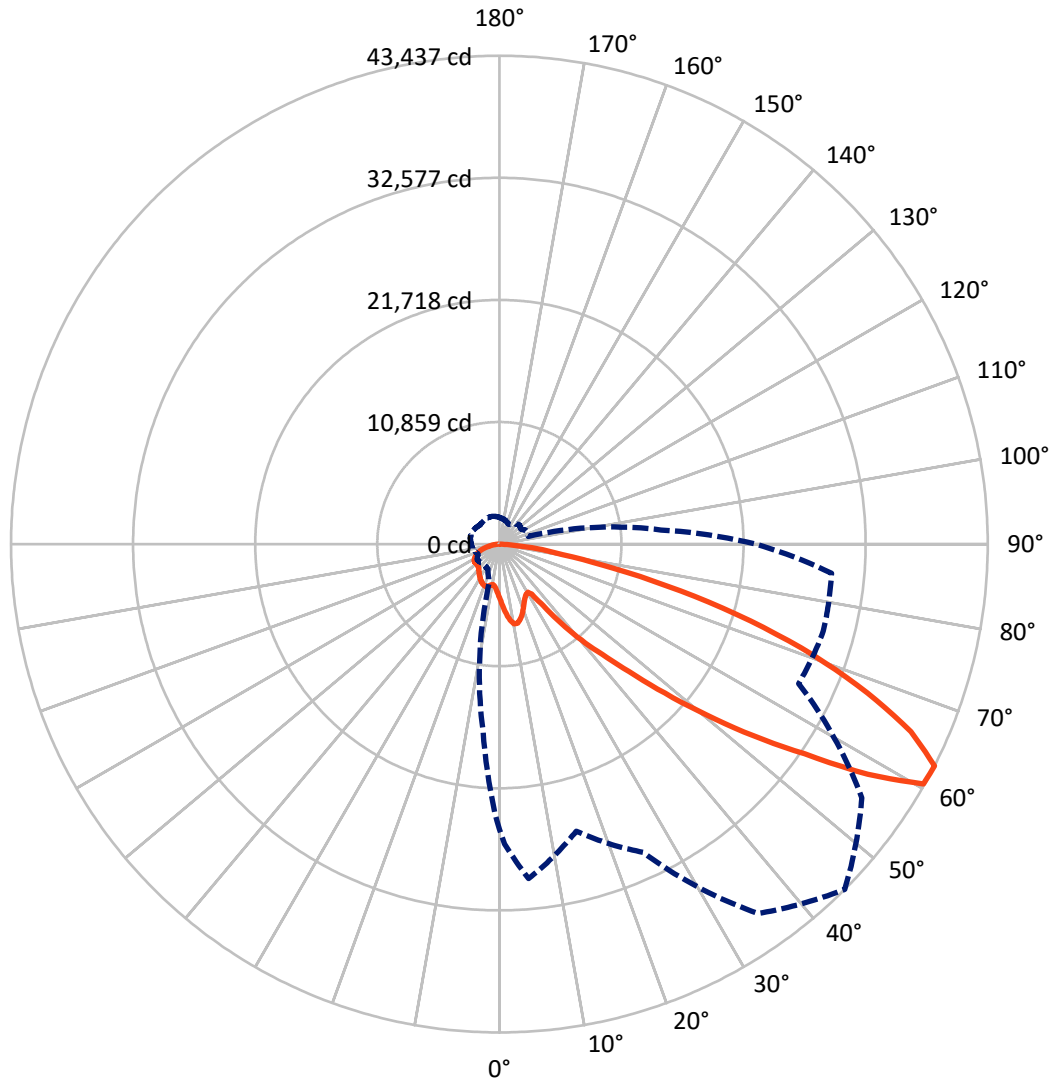
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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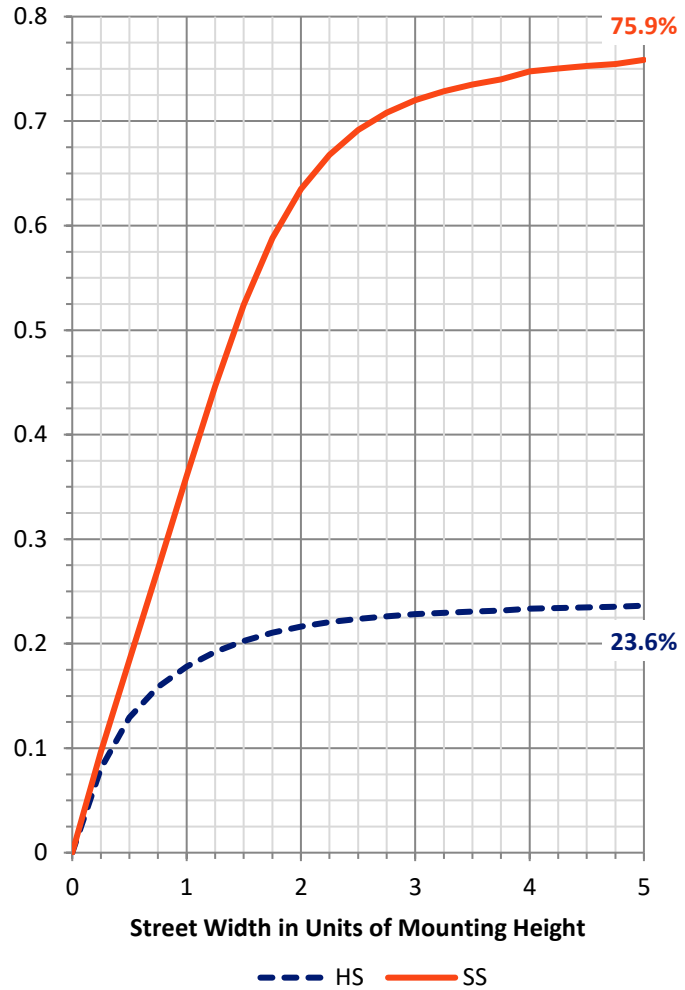
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8676.1	0.0	8676.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	27683.5	0.0	27683.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	36359.6	0.0	36359.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.3	1.3
10°-20°	1477.4	4.1
20°-30°	2294.8	6.3
30°-40°	3115.7	8.6
40°-50°	4938.1	13.6
50°-60°	8710.7	24.0
60°-70°	9692.0	26.7
70°-80°	4915.4	13.5
80°-90°	744.3	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°	36359.6	100.0
0°-180°	36359.6	100.0

Coefficient of Utilization



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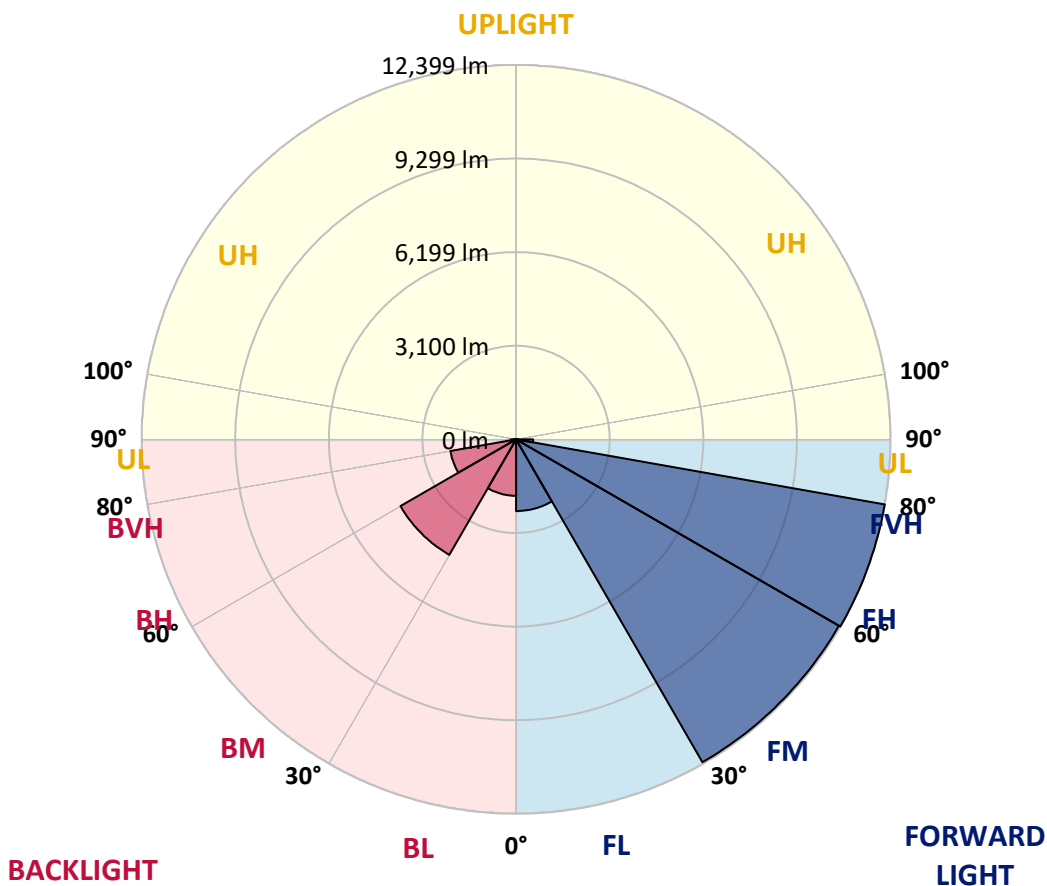
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.0	6.5			
FM (30°-60°)	12345.7	34.0			
FH (60°-80°)	12399.0	34.1			G5
FVH (80°-90°)	564.9	1.6			G4/750
BL (0°-30°)	1869.5	5.1	B3/2500		
BM (30°-60°)	4418.8	12.2	B3/5000		
BH (60°-80°)	2208.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	179.4	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°	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7
2.5°	5186.3	5183.5	5235.8	5315.7	5390.0	5423.0	5478.1	5472.6	5428.5	5370.7	5351.4
5°	5593.7	5604.7	5695.5	5871.7	6067.2	6149.8	6185.5	6171.8	6092.0	5990.1	5811.2
7.5°	5962.6	5981.8	6122.2	6386.5	6628.7	6738.9	6826.9	6810.4	6694.8	6504.9	6240.6
10°	6232.3	6254.4	6422.3	6733.4	7003.1	7099.5	7212.3	7217.8	7116.0	6860.0	6590.2
12.5°	6502.1	6524.1	6681.0	6964.6	7140.8	7143.5	7209.6	7245.4	7250.9	7132.5	6862.7
15°	6782.9	6802.2	6945.3	7105.0	7096.7	6942.6	6942.6	7011.4	7162.8	7248.1	7060.9
17.5°	7022.4	7047.2	7157.3	7105.0	6860.0	6581.9	6548.9	6637.0	6901.3	7228.9	7209.6
20°	7220.6	7239.9	7300.4	6953.6	6507.6	6144.3	6080.9	6182.8	6540.7	7110.5	7322.5
22.5°	7410.5	7421.6	7388.5	6755.4	6127.7	5712.1	5635.0	5742.3	6127.7	6901.3	7418.8
25°	7636.3	7625.3	7468.4	6548.9	5780.9	5370.7	5290.9	5412.0	5813.9	6623.2	7523.4
27.5°	7897.8	7856.5	7537.2	6325.9	5513.9	5117.5	5062.4	5191.8	5566.2	6367.2	7606.0
30°	8120.8	8040.9	7548.2	6127.7	5376.2	5010.1	4977.1	5098.2	5445.0	6193.8	7710.6
32.5°	8368.5	8258.4	7611.5	6075.4	5453.3	5268.9	5312.9	5321.2	5478.1	6144.3	7867.5
35°	8723.6	8580.5	7784.9	6226.8	6246.1	6557.2	6716.8	6502.1	5976.3	6254.4	8164.8
37.5°	9260.4	9078.7	8137.3	6882.0	7884.0	8580.5	8965.9	8475.9	7490.4	6670.0	8613.5
40°	9912.8	9681.6	8588.7	8093.2	9414.6	10529.5	11214.9	10496.4	9048.5	7707.8	9243.9
42.5°	10824.0	10581.8	9464.1	9282.4	10832.3	12492.2	13386.9	12316.0	10422.1	9048.5	10254.2
45°	12412.4	12178.4	11069.0	10474.4	12492.2	14909.2	16164.5	14675.2	11817.8	10394.6	12142.6
47.5°	15346.9	15071.6	13452.9	11795.8	14386.1	18047.4	19803.7	17634.4	13268.5	11936.1	15313.8
50°	18870.5	18606.2	16445.2	13359.3	16478.3	21403.0	23844.8	21111.2	14939.5	13810.8	19104.4
52.5°	23109.8	23060.2	20714.8	15335.9	18655.7	24981.7	28329.1	24962.4	16770.1	16335.1	23398.8
55°	26930.7	27415.2	26137.9	18350.2	21469.1	29477.0	32940.0	29163.2	19253.1	20508.4	28428.2
57.5°	28989.8	30291.8	32254.6	24499.9	25559.8	34850.5	38630.1	34291.7	23519.9	27456.4	33091.4
60°	27629.9	29105.4	32662.0	29130.1	29617.4	39155.9	43326.3	38602.5	27709.7	32279.4	32827.2
62.5°	25367.1	26691.2	29854.1	26426.9	30245.0	40102.8	43436.5	39354.1	29375.1	29832.1	29653.2
65°	22683.1	24018.2	27368.4	23068.5	28249.3	37853.8	40232.2	37143.6	26382.9	26952.7	27018.7
67.5°	19118.2	20351.5	23762.2	20511.1	25749.7	34553.2	35312.9	33994.3	24296.2	25204.7	24254.9
70°	14284.3	15396.4	18408.0	16668.2	21705.8	30253.3	29639.4	29834.9	21953.6	22856.5	20260.6
72.5°	9761.4	10598.3	13180.4	13097.8	16621.4	24219.1	23363.0	25215.7	18336.4	19533.9	15446.0
75°	6826.9	7479.4	9527.4	10347.8	12563.8	17951.0	16637.9	18873.2	14320.1	16029.6	11270.0
77.5°	4189.8	4622.0	6017.6	7666.6	8082.2	12285.8	10334.0	14201.7	10056.0	11691.1	7517.9
80°	2094.9	2304.1	2923.5	4820.2	5359.7	7239.9	5706.6	8244.6	6804.9	7239.9	4159.5
82.5°	633.1	699.2	856.1	1830.6	2777.6	4167.7	3372.2	4789.9	3716.3	3394.2	1637.9
85°	167.9	189.9	236.7	542.3	974.5	1494.8	1139.7	2320.6	1781.1	1252.5	616.6
87.5°	13.8	13.8	11.0	11.0	5.5	0.0	0.0	165.2	333.1	189.9	107.4
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°	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7
2.5°	5255.1	5244.1	5131.2	5048.6	4952.3	4858.7	4762.3	4677.0	4580.7	4484.3	4456.8
5°	5679.0	5602.0	5362.5	5161.5	4963.3	4789.9	4638.5	4481.6	4354.9	4231.1	4184.3
7.5°	6053.4	5918.5	5571.7	5266.1	4990.8	4776.1	4553.1	4324.7	4145.7	3969.5	3925.5
10°	6392.0	6213.1	5775.4	5390.0	5084.4	4839.4	4577.9	4272.3	4013.6	3798.9	3741.1
12.5°	6642.5	6447.1	5951.6	5508.4	5161.5	4886.2	4627.5	4357.7	4085.2	3807.1	3743.8
15°	6840.7	6637.0	6097.5	5599.2	5164.3	4809.1	4558.6	4465.0	4379.7	4107.2	3991.6
17.5°	7000.4	6785.7	6224.1	5654.3	5089.9	4575.2	4357.7	4495.3	4712.8	4542.1	4324.7
20°	7146.3	6928.8	6320.4	5692.8	4924.8	4253.1	4132.0	4423.8	4751.3	4745.8	4550.4
22.5°	7305.9	7094.0	6460.8	5714.8	4693.5	3925.5	3997.1	4319.1	4586.2	4666.0	4544.9
25°	7509.6	7322.5	6656.3	5764.4	4432.0	3699.8	3898.0	4184.3	4407.2	4426.5	4354.9
27.5°	7746.4	7606.0	6948.1	5880.0	4178.8	3584.1	3782.3	3994.3	4198.0	4206.3	4120.9
30°	8005.1	7911.6	7217.8	5976.3	3988.8	3548.4	3633.7	3804.4	3933.8	3955.8	3881.5
32.5°	8335.5	8252.9	7457.3	5913.0	3875.9	3540.1	3496.1	3584.1	3691.5	3691.5	3633.7
35°	8789.7	8674.1	7710.6	5670.8	3738.3	3507.1	3350.2	3374.9	3421.7	3430.0	3397.0
37.5°	9433.9	9243.9	7966.6	5191.8	3512.6	3388.7	3182.2	3152.0	3168.5	3190.5	3182.2
40°	10232.2	9921.1	8341.0	4616.4	3242.8	3160.2	3008.8	2951.0	2937.2	2981.3	2997.8
42.5°	11236.9	10760.7	8742.9	4079.7	2997.8	2898.7	2805.1	2755.6	2733.5	2807.9	2851.9
45°	12841.8	12057.3	9128.3	3548.4	2860.2	2675.7	2612.4	2576.6	2587.6	2675.7	2730.8
47.5°	15613.9	14036.5	9494.4	3212.5	2849.1	2516.1	2439.0	2447.2	2477.5	2571.1	2637.2
50°	19121.0	16687.5	9739.4	3072.1	2882.2	2419.7	2317.9	2361.9	2408.7	2499.5	2576.6
52.5°	22691.3	19156.7	9447.6	2995.0	2879.4	2422.5	2205.0	2337.1	2359.2	2450.0	2532.6
55°	25146.8	19432.0	8162.1	2876.7	2835.4	2532.6	2116.9	2326.1	2339.9	2422.5	2496.8
57.5°	26082.8	18490.6	6224.1	2909.7	2703.3	2617.9	2078.4	2249.0	2348.1	2419.7	2496.8
60°	24951.4	16715.0	3782.3	2995.0	2491.3	2612.4	2103.1	2108.6	2279.3	2400.4	2477.5
62.5°	22818.0	14435.7	2656.5	2752.8	2337.1	2466.5	2160.9	1943.5	2158.2	2304.1	2372.9
65°	20373.5	11754.5	2026.1	2370.2	2262.8	2240.8	2180.2	1797.6	1993.0	2136.2	2196.7
67.5°	17827.1	9136.5	1646.2	1767.3	2045.3	2026.1	1993.0	1668.2	1797.6	1899.4	1968.3
70°	14620.1	6392.0	1390.2	1326.9	1753.5	1816.8	1742.5	1505.8	1547.1	1651.7	1706.7
72.5°	10694.6	3983.3	1142.4	1095.6	1409.4	1588.4	1549.8	1326.9	1346.1	1445.2	1489.3
75°	7691.3	2279.3	916.7	902.9	1076.3	1359.9	1282.8	1142.4	1164.4	1238.8	1269.0
77.5°	4889.0	1269.0	707.5	726.7	770.8	1015.8	1095.6	977.2	977.2	1021.3	1046.1
80°	2617.9	726.7	517.5	525.8	539.5	776.3	864.4	757.0	757.0	726.7	757.0
82.5°	1068.1	418.4	355.1	330.3	360.6	531.3	605.6	481.7	503.8	454.2	465.2
85°	352.4	209.2	176.2	173.4	170.7	234.0	291.8	239.5	286.3	181.7	189.9
87.5°	46.8	38.5	22.0	16.5	19.3	8.3	16.5	19.3	19.3	13.8	13.8
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°	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7
2.5°	4437.5	4415.5	4335.7	4354.9	4341.2	4319.1	4341.2	4299.9	4332.9	4343.9	4412.7
5°	4148.5	4096.2	4019.1	3980.6	3972.3	3950.3	3953.0	3933.8	3939.3	3986.1	4063.1
7.5°	3889.7	3840.2	3779.6	3752.1	3727.3	3702.5	3699.8	3697.0	3719.0	3760.3	3834.7
10°	3702.5	3675.0	3650.2	3661.2	3650.2	3639.2	3619.9	3619.9	3655.7	3730.0	3820.9
12.5°	3702.5	3697.0	3702.5	3735.6	3732.8	3735.6	3710.8	3724.5	3823.6	3950.3	4079.7
15°	3900.7	3856.7	3856.7	3873.2	3867.7	3867.7	3867.7	3925.5	4151.2	4346.7	4484.3
17.5°	4143.0	4013.6	3958.5	3950.3	3947.5	3947.5	3958.5	4082.4	4434.8	4641.2	4721.1
20°	4310.9	4065.9	3975.0	3939.3	3942.0	3947.5	3980.6	4151.2	4539.4	4644.0	4624.7
22.5°	4341.2	4024.6	3914.5	3862.2	3870.4	3875.9	3925.5	4107.2	4396.2	4412.7	4374.2
25°	4200.8	3909.0	3790.6	3749.3	3760.3	3757.6	3801.6	3933.8	4140.2	4134.7	4112.7
27.5°	3991.6	3724.5	3636.5	3608.9	3628.2	3606.2	3619.9	3721.8	3881.5	3875.9	3867.7
30°	3776.8	3545.6	3465.8	3452.0	3476.8	3443.8	3446.5	3531.8	3642.0	3636.5	3633.7
32.5°	3562.1	3366.7	3295.1	3295.1	3319.9	3284.1	3289.6	3363.9	3438.2	3416.2	3416.2
35°	3358.4	3220.8	3163.0	3152.0	3171.2	3146.5	3157.5	3226.3	3253.8	3223.5	3204.3
37.5°	3179.5	3118.9	3061.1	3022.6	3025.3	3028.1	3061.1	3113.4	3096.9	3052.9	3028.1
40°	3014.3	3014.3	2959.3	2887.7	2879.4	2898.7	2953.8	3011.6	2964.8	2915.2	2884.9
42.5°	2895.9	2920.7	2868.4	2796.8	2780.3	2813.4	2873.9	2915.2	2860.2	2805.1	2763.8
45°	2785.8	2846.4	2810.6	2730.8	2708.8	2747.3	2824.4	2840.9	2766.6	2714.3	2684.0
47.5°	2708.8	2791.3	2766.6	2689.5	2656.5	2711.5	2791.3	2788.6	2695.0	2639.9	2615.2
50°	2653.7	2758.3	2755.6	2689.5	2653.7	2722.5	2794.1	2758.3	2656.5	2598.6	2573.9
52.5°	2609.7	2755.6	2774.8	2736.3	2711.5	2772.1	2816.1	2747.3	2628.9	2568.4	2549.1
55°	2590.4	2766.6	2780.3	2744.5	2722.5	2777.6	2816.1	2769.3	2628.9	2573.9	2557.4
57.5°	2595.9	2752.8	2755.6	2706.0	2667.5	2736.3	2796.8	2783.1	2659.2	2595.9	2576.6
60°	2562.9	2678.5	2684.0	2606.9	2562.9	2645.4	2752.8	2744.5	2645.4	2579.4	2543.6
62.5°	2452.7	2554.6	2557.4	2485.8	2422.5	2540.8	2659.2	2656.5	2565.6	2499.5	2458.3
65°	2268.3	2375.7	2403.2	2334.4	2284.8	2411.5	2535.3	2529.8	2439.0	2378.4	2337.1
67.5°	2039.8	2155.4	2207.7	2160.9	2141.7	2257.3	2372.9	2370.2	2295.8	2238.0	2202.2
70°	1761.8	1858.1	1946.2	1946.2	1932.5	2064.6	2188.5	2177.5	2108.6	2064.6	2037.1
72.5°	1530.6	1604.9	1632.4	1659.9	1701.2	1838.9	1943.5	1951.7	1902.2	1880.2	1902.2
75°	1302.1	1348.9	1373.6	1351.6	1423.2	1566.3	1704.0	1717.7	1665.4	1629.7	1637.9
77.5°	1070.8	1123.1	1147.9	1098.4	1092.9	1274.5	1442.5	1472.7	1428.7	1373.6	1390.2
80°	773.5	842.4	883.6	850.6	839.6	919.4	1150.7	1183.7	1142.4	1098.4	1123.1
82.5°	473.5	512.0	523.0	556.1	624.9	657.9	740.5	850.6	820.3	781.8	850.6
85°	187.2	223.0	247.8	280.8	327.6	388.1	457.0	545.1	495.5	479.0	564.3
87.5°	11.0	2.8	0.0	5.5	46.8	90.8	195.4	269.8	225.7	242.2	291.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7	4825.7
2.5°	4467.8	4539.4	4635.7	4715.5	4817.4	4913.8	5012.9	5112.0	5164.3	5186.3
5°	4151.2	4283.4	4437.5	4608.2	4806.4	5015.6	5227.6	5445.0	5582.7	5593.7
7.5°	3961.3	4151.2	4363.2	4577.9	4822.9	5112.0	5447.8	5783.6	5924.0	5962.6
10°	4021.8	4233.8	4401.7	4602.7	4872.5	5233.1	5629.5	6023.1	6185.5	6232.3
12.5°	4264.1	4305.4	4357.7	4542.1	4872.5	5337.7	5816.7	6284.6	6458.1	6502.1
15°	4465.0	4266.8	4173.2	4368.7	4806.4	5428.5	6014.9	6532.4	6741.6	6782.9
17.5°	4481.6	4140.2	3936.5	4112.7	4690.8	5491.8	6204.8	6807.7	6983.9	7022.4
20°	4313.6	4005.3	3741.1	3848.4	4533.9	5519.4	6342.5	7008.6	7182.1	7220.6
22.5°	4123.7	3895.2	3608.9	3603.4	4343.9	5549.6	6507.6	7198.6	7385.8	7410.5
25°	3944.8	3743.8	3501.6	3424.5	4123.7	5607.5	6730.6	7484.9	7628.0	7636.3
27.5°	3735.6	3581.4	3416.2	3341.9	3931.0	5717.6	7060.9	7826.2	7911.6	7897.8
30°	3545.6	3430.0	3355.7	3333.6	3809.9	5800.2	7374.8	8162.1	8167.6	8120.8
32.5°	3344.7	3300.6	3300.6	3372.2	3710.8	5780.9	7630.8	8489.6	8437.3	8368.5
35°	3165.7	3174.0	3231.8	3399.7	3545.6	5588.2	7875.8	8899.8	8822.7	8723.6
37.5°	2995.0	3058.4	3140.9	3303.4	3328.1	5301.9	8162.1	9480.6	9384.3	9260.4
40°	2849.1	2945.5	3041.8	3121.7	3096.9	4894.5	8561.2	10163.3	10056.0	9912.8
42.5°	2733.5	2827.1	2934.5	2942.7	2951.0	4470.5	8985.1	11000.2	10980.9	10824.0
45°	2659.2	2719.8	2821.6	2807.9	2942.7	4002.6	9376.0	12277.5	12530.8	12412.4
47.5°	2609.7	2656.5	2667.5	2725.3	3014.3	3584.1	9879.8	14777.0	15481.8	15346.9
50°	2582.1	2628.9	2505.0	2730.8	3025.3	3314.4	10576.3	17915.2	19049.4	18870.5
52.5°	2579.4	2568.4	2381.2	2788.6	2964.8	3149.2	10939.6	20205.6	22721.6	23109.8
55°	2584.9	2447.2	2317.9	2805.1	2843.6	3088.6	9722.9	21306.7	26110.3	26930.7
57.5°	2535.3	2315.1	2353.6	2739.0	2615.2	3251.1	7187.6	20913.0	27464.7	28989.8
60°	2441.7	2188.5	2419.7	2560.1	2381.2	2973.0	4949.5	19156.7	26060.8	27629.9
62.5°	2306.8	2100.4	2411.5	2328.9	2295.8	2433.5	3402.5	16698.5	23833.8	25367.1
65°	2155.4	2028.8	2282.1	2105.9	2125.2	1871.9	2405.9	13923.7	21174.6	22683.1
67.5°	1993.0	1984.8	2092.1	1874.7	1794.8	1483.8	1753.5	11159.9	17758.3	19118.2
70°	1808.6	1869.2	1902.2	1665.4	1456.2	1164.4	1302.1	7804.2	13100.6	14284.3
72.5°	1624.2	1629.7	1676.5	1448.0	1090.1	933.2	977.2	4726.6	8899.8	9761.4
75°	1437.0	1384.7	1428.7	1178.2	812.1	765.3	754.3	2920.7	6147.0	6826.9
77.5°	1236.0	1178.2	1120.4	886.4	652.4	591.9	578.1	1637.9	3771.3	4189.8
80°	1004.8	927.7	836.9	649.7	476.2	423.9	421.2	798.3	1880.2	2094.9
82.5°	781.8	635.9	611.1	404.7	294.5	258.8	275.3	305.6	567.1	633.1
85°	547.8	462.5	324.8	162.4	132.1	107.4	104.6	90.8	151.4	167.9
87.5°	305.6	201.0	104.6	19.3	22.0	24.8	19.3	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)