

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: P638868

Luminaire Tested: GWS-SA4F-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18313.4 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

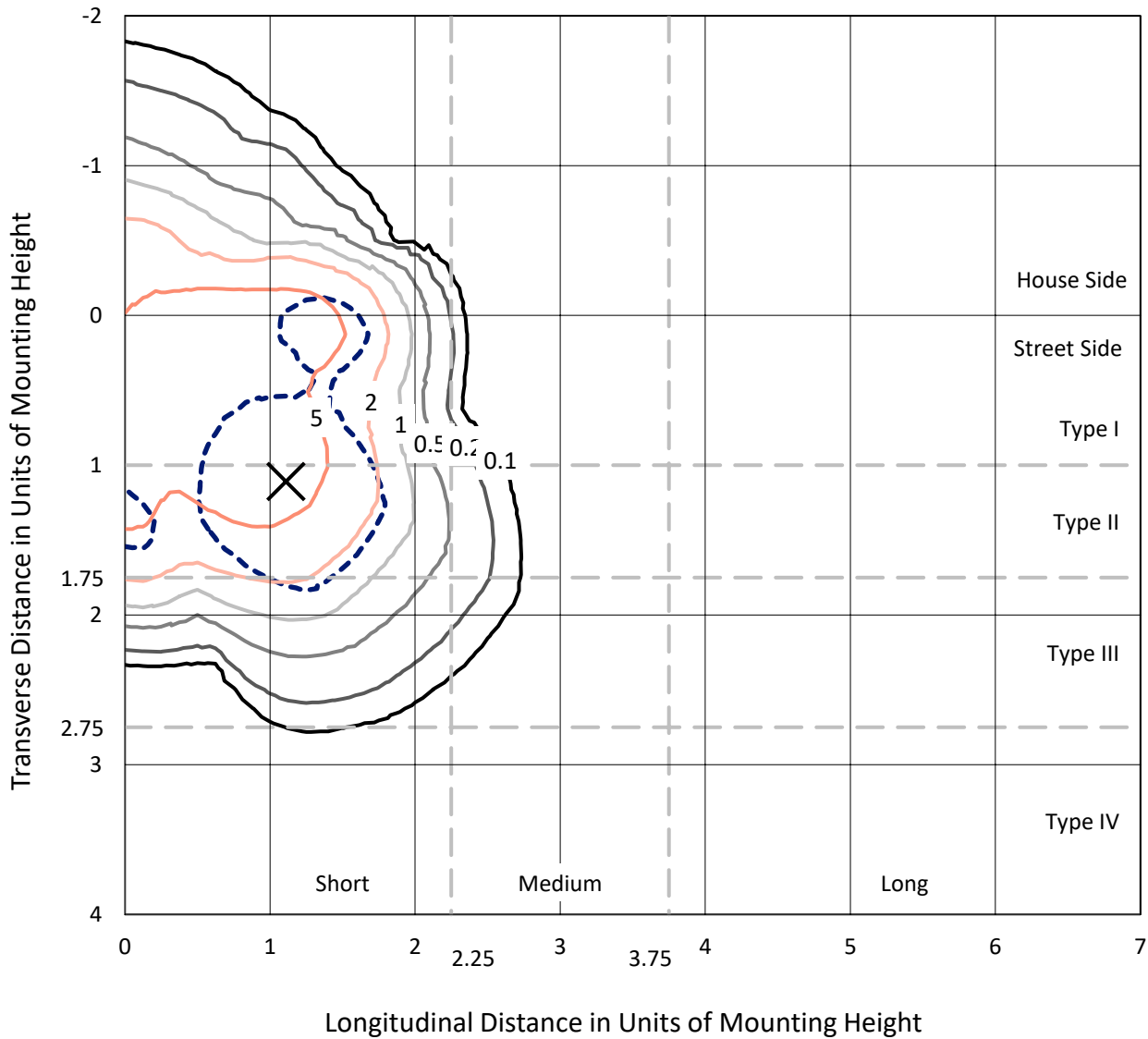
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

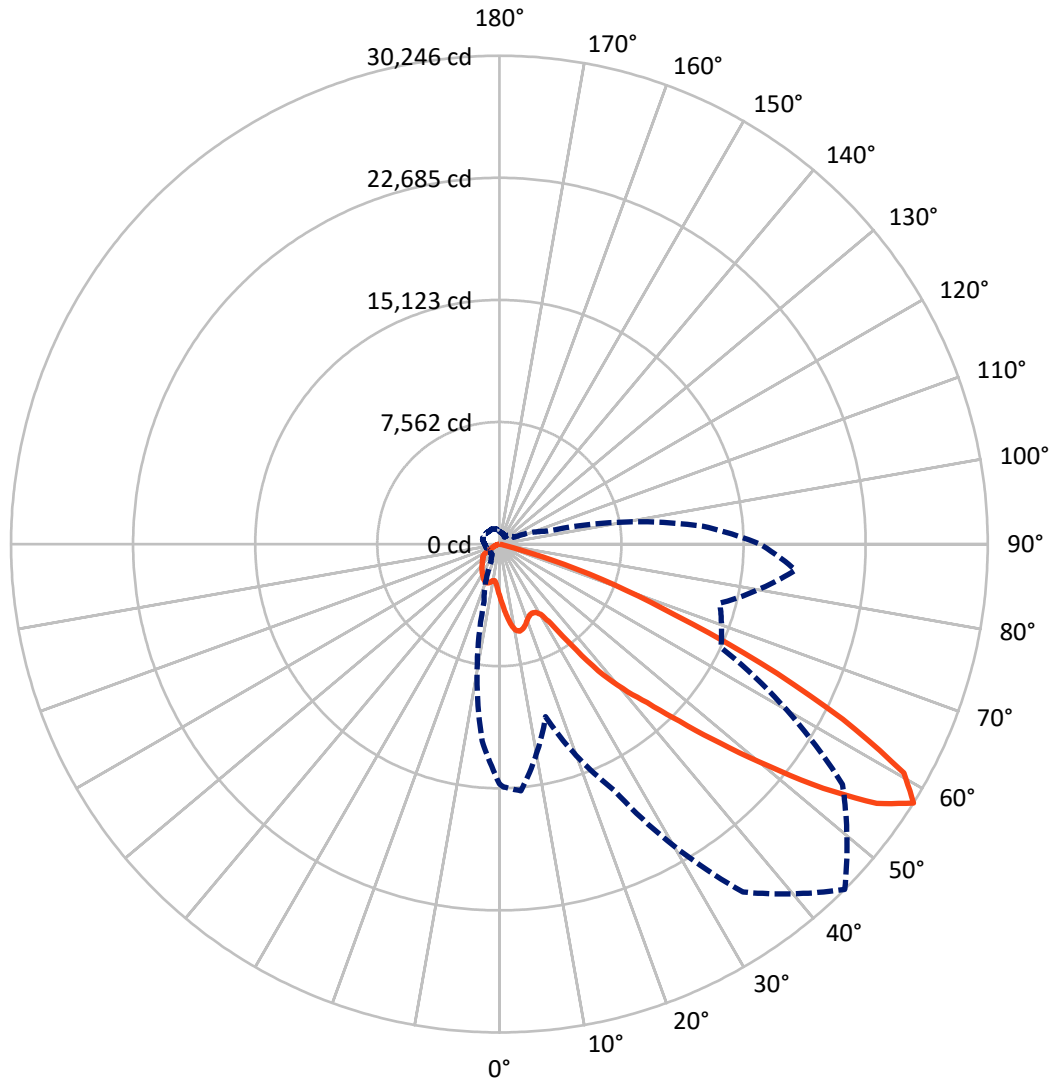
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4100.9	0.0	4100.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14212.5	0.0	14212.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	18313.4	0.0	18313.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.7
10°-20°	1024.4	5.6
20°-30°	1664.0	9.1
30°-40°	2571.1	14.0
40°-50°	4122.8	22.5
50°-60°	5634.8	30.8
60°-70°	2729.1	14.9
70°-80°	249.9	1.4
80°-90°	0.7	0.0
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°	18313.4	100.0
0°-180°	18313.4	100.0

Coefficient of Utilization



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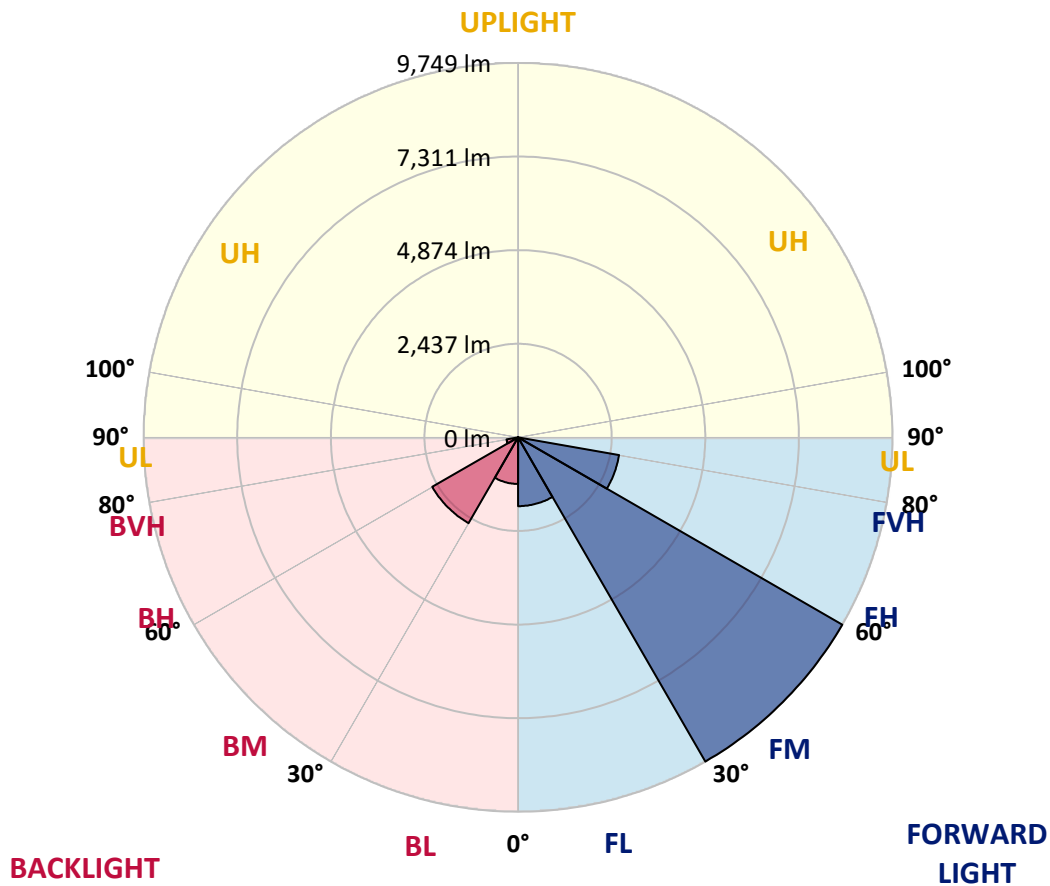
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.6	9.8			
FM (30°-60°)	9748.6	53.2			
FH (60°-80°)	2671.6	14.6			G2/5000
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	1213.4	6.6	B3/2500		
BM (30°-60°)	2580.1	14.1	B3/5000		
BH (60°-80°)	307.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	3487.0	3509.2	3546.1	3624.8	3691.3	3735.6	3755.2	3750.3	3723.2	3703.6	3664.2
5°	3861.1	3861.1	3932.4	4112.1	4249.9	4336.0	4380.3	4353.2	4299.1	4213.0	4080.1
7.5°	4188.3	4200.7	4321.2	4577.2	4786.3	4909.4	4980.7	4966.0	4870.0	4705.1	4439.4
10°	4444.3	4459.0	4619.0	4931.5	5177.6	5303.1	5408.9	5418.8	5313.0	5093.9	4788.8
12.5°	4692.8	4707.6	4874.9	5175.1	5391.7	5443.4	5536.9	5573.8	5546.7	5391.7	5074.2
15°	4961.1	4995.5	5138.2	5362.2	5453.2	5391.7	5453.2	5519.7	5610.7	5595.9	5310.5
17.5°	5224.4	5249.0	5394.2	5472.9	5372.0	5212.1	5241.6	5320.3	5527.0	5728.8	5544.3
20°	5468.0	5502.4	5623.0	5519.7	5214.5	4966.0	4968.4	5071.8	5386.8	5810.0	5783.0
22.5°	5723.9	5775.6	5861.7	5571.3	5069.3	4771.6	4783.9	4877.4	5276.0	5886.3	6053.7
25°	6058.6	6107.8	6164.4	5699.3	5022.6	4675.6	4722.3	4808.5	5276.0	6016.7	6388.3
27.5°	6511.4	6545.8	6548.3	5938.0	5103.8	4690.4	4788.8	4887.2	5433.5	6277.6	6836.2
30°	7079.8	7134.0	7062.6	6309.6	5357.2	4887.2	5032.4	5155.5	5773.1	6718.1	7495.7
32.5°	7771.3	7847.6	7751.6	6860.8	5886.3	5566.4	5829.7	5901.1	6314.5	7355.4	8243.8
35°	8583.4	8647.4	8544.0	7623.7	7121.7	7180.7	7658.1	7567.1	7402.2	8140.5	9117.4
37.5°	9474.2	9533.3	9334.0	8780.3	8947.6	9203.5	9966.4	9653.9	9122.3	9151.9	10064.8
40°	10291.2	10355.2	10042.7	10037.8	10382.3	10849.8	11770.2	11339.5	10616.1	10475.8	10953.2
42.5°	11137.8	11182.0	10899.1	10707.1	11489.7	12451.8	13426.3	12845.6	11605.3	11452.7	12065.5
45°	12346.0	12439.5	11935.1	11036.9	12486.3	14295.0	15653.4	14518.9	12279.6	12156.5	13768.4
47.5°	14122.8	14191.7	13163.0	11243.6	13414.0	16591.0	18436.6	16689.4	12872.6	12592.1	16096.3
50°	15591.9	15638.6	14292.5	11470.0	14400.8	19066.6	21608.6	19263.4	13539.5	13313.1	18269.3
52.5°	16674.6	16851.8	15776.4	11935.1	15697.7	21977.7	25120.2	22312.4	14580.5	14706.0	20070.6
55°	16898.6	17139.7	16790.3	12220.5	16839.5	24943.1	28363.6	25041.5	15618.9	15761.7	20676.0
57.5°	14851.2	15043.1	15333.5	11068.9	16812.4	26301.4	30246.2	25947.1	15146.5	14135.1	18409.5
60°	11125.5	11258.3	11785.0	8460.4	15461.4	25100.6	28779.5	24406.6	13244.2	10785.9	14026.8
62.5°	6597.5	6656.6	7323.5	5480.3	12833.3	21616.0	23867.7	21059.9	10465.9	7254.6	8590.8
65°	2532.2	2507.6	3017.0	2704.5	9437.3	17218.5	17752.5	16054.5	7180.7	3324.6	3275.4
67.5°	391.3	374.0	504.5	799.8	6806.7	11932.6	11713.6	11570.9	4498.4	775.2	676.7
70°	88.6	88.6	108.3	236.2	4158.8	7010.9	7503.1	7153.7	2879.2	164.9	88.6
72.5°	41.8	41.8	51.7	100.9	1506.0	2889.0	3366.4	3314.7	935.1	54.1	32.0
75°	14.8	17.2	17.2	22.1	91.1	150.1	344.5	246.1	59.1	0.0	0.0
77.5°	4.9	4.9	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	3578.1	3560.8	3496.9	3410.7	3327.1	3253.2	3176.9	3085.9	3019.4	2943.2	2918.6
5°	3976.7	3868.4	3693.7	3511.6	3344.3	3201.6	3063.7	2916.1	2807.8	2699.5	2662.6
7.5°	4313.8	4153.9	3870.9	3597.7	3368.9	3167.1	2967.8	2766.0	2608.5	2480.5	2441.2
10°	4616.5	4432.0	4053.0	3715.9	3427.9	3194.2	2953.0	2699.5	2495.3	2342.7	2305.8
12.5°	4877.4	4663.3	4208.0	3804.5	3452.6	3184.3	2950.5	2748.8	2564.2	2389.5	2342.7
15°	5096.4	4860.2	4338.5	3863.5	3415.6	3061.3	2857.0	2825.0	2810.3	2618.3	2527.3
17.5°	5310.5	5044.7	4444.3	3890.6	3312.3	2844.7	2697.1	2842.3	2997.3	2871.8	2756.1
20°	5534.4	5231.7	4552.6	3895.5	3140.0	2601.1	2576.5	2805.4	3002.2	2962.8	2854.6
22.5°	5797.7	5465.5	4687.9	3893.0	2923.5	2394.4	2487.9	2734.0	2893.9	2891.5	2805.4
25°	6179.2	5760.8	4870.0	3907.8	2687.2	2234.4	2389.5	2613.4	2743.8	2738.9	2667.5
27.5°	6587.7	6112.7	5106.2	3944.7	2485.4	2140.9	2273.8	2448.5	2561.7	2556.8	2495.3
30°	7161.0	6518.8	5332.6	3947.2	2340.3	2091.7	2145.9	2266.4	2374.7	2362.4	2315.6
32.5°	7857.5	6976.5	5522.1	3806.9	2249.2	2045.0	2013.0	2074.5	2158.2	2140.9	2128.6
35°	8699.1	7520.3	5684.5	3499.3	2108.9	1951.4	1865.3	1877.6	1936.7	1946.5	1941.6
37.5°	9658.8	8167.5	5886.3	3093.3	1919.5	1816.1	1700.4	1690.6	1725.0	1757.0	1781.6
40°	10606.2	8895.9	6159.5	2682.3	1747.2	1643.8	1533.1	1508.5	1523.3	1579.9	1631.5
42.5°	11671.8	9740.0	6454.8	2330.4	1629.1	1454.4	1348.5	1301.8	1343.6	1434.7	1496.2
45°	13207.3	10923.7	6742.7	2049.9	1579.9	1287.0	1144.3	1139.4	1186.1	1304.2	1373.1
47.5°	15363.0	12454.3	6932.2	1830.9	1577.4	1156.6	986.8	1016.3	1070.5	1186.1	1264.9
50°	17464.6	14371.3	6723.0	1663.5	1525.7	1070.5	868.7	927.7	981.9	1082.8	1164.0
52.5°	18731.9	15402.4	5908.5	1506.0	1365.8	1031.1	753.0	856.4	866.2	957.3	1043.4
55°	18599.0	14735.5	4525.5	1262.4	1129.5	974.5	632.4	772.7	777.6	846.5	920.4
57.5°	16143.1	12651.2	3108.0	1023.7	849.0	804.7	521.7	652.1	698.9	740.7	794.9
60°	12031.0	9230.6	1385.5	831.8	538.9	543.8	445.4	492.2	563.5	612.7	659.5
62.5°	7089.7	5310.5	563.5	499.6	297.8	342.1	359.3	359.3	403.6	440.5	470.0
65°	2679.9	1857.9	228.9	251.0	155.0	160.0	211.6	260.8	295.3	327.3	366.7
67.5°	470.0	324.8	118.1	93.5	91.1	81.2	108.3	169.8	189.5	214.1	231.3
70°	78.7	66.4	49.2	46.8	41.8	44.3	71.4	120.6	132.9	140.3	147.7
72.5°	22.1	19.7	14.8	12.3	9.8	12.3	44.3	93.5	98.4	103.4	110.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	17.2	66.4	71.4	73.8	81.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	19.7	24.6	19.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	2903.8	2854.6	2827.5	2812.7	2812.7	2793.1	2770.9	2763.5	2795.5	2795.5	2849.7
5°	2615.9	2576.5	2532.2	2505.1	2463.3	2470.7	2446.1	2443.6	2475.6	2490.4	2547.0
7.5°	2416.5	2367.3	2340.3	2323.0	2300.9	2291.0	2268.9	2261.5	2278.7	2303.3	2357.5
10°	2283.7	2276.3	2273.8	2286.1	2286.1	2273.8	2254.1	2241.8	2246.7	2293.5	2355.0
12.5°	2318.1	2332.9	2337.8	2357.5	2367.3	2357.5	2342.7	2347.6	2379.6	2465.8	2556.8
15°	2468.2	2455.9	2451.0	2460.8	2468.2	2458.4	2453.5	2490.4	2601.1	2724.1	2827.5
17.5°	2628.2	2549.4	2515.0	2515.0	2519.9	2515.0	2519.9	2591.3	2770.9	2893.9	2970.2
20°	2709.4	2564.2	2510.1	2497.8	2507.6	2510.1	2527.3	2608.5	2805.4	2891.5	2908.7
22.5°	2684.8	2502.7	2441.2	2431.3	2441.2	2451.0	2468.2	2537.1	2721.7	2766.0	2758.6
25°	2561.7	2382.1	2332.9	2332.9	2355.0	2352.6	2359.9	2409.2	2561.7	2588.8	2576.5
27.5°	2406.7	2236.9	2195.1	2219.7	2239.4	2234.4	2236.9	2278.7	2391.9	2399.3	2387.0
30°	2249.2	2101.6	2062.2	2091.7	2118.8	2113.9	2116.3	2158.2	2229.5	2222.1	2204.9
32.5°	2089.3	1981.0	1951.4	1968.7	2010.5	2005.6	2015.4	2059.7	2086.8	2054.8	2035.1
35°	1941.6	1885.0	1862.9	1872.7	1904.7	1912.1	1929.3	1958.8	1958.8	1919.5	1885.0
37.5°	1803.8	1796.4	1781.6	1769.3	1798.9	1821.0	1845.6	1880.1	1830.9	1774.3	1742.3
40°	1675.8	1707.8	1688.1	1656.1	1673.4	1705.4	1754.6	1781.6	1722.6	1666.0	1611.8
42.5°	1557.7	1611.8	1604.5	1565.1	1579.9	1609.4	1666.0	1688.1	1619.2	1555.2	1503.6
45°	1444.5	1520.8	1525.7	1476.5	1491.3	1520.8	1587.2	1594.6	1506.0	1437.1	1400.2
47.5°	1346.1	1429.7	1432.2	1395.3	1400.2	1442.1	1503.6	1506.0	1405.1	1341.2	1294.4
50°	1252.6	1348.5	1355.9	1323.9	1328.9	1378.1	1429.7	1419.9	1311.6	1245.2	1203.3
52.5°	1139.4	1269.8	1287.0	1272.3	1291.9	1331.3	1363.3	1328.9	1203.3	1136.9	1100.0
55°	1016.3	1186.1	1223.0	1213.2	1235.3	1267.3	1274.7	1252.6	1095.1	1028.6	994.2
57.5°	873.6	977.0	1040.9	1021.2	1038.5	1070.5	1092.6	1075.4	957.3	905.6	876.1
60°	723.5	792.4	807.2	775.2	760.4	817.0	868.7	846.5	745.6	713.6	679.2
62.5°	529.1	607.8	617.7	575.8	558.6	620.1	664.4	642.3	531.5	497.1	470.0
65°	423.3	497.1	516.8	477.4	467.6	514.3	541.4	487.2	408.5	371.6	342.1
67.5°	278.1	337.1	388.8	386.4	366.7	381.4	361.7	317.4	260.8	241.2	221.5
70°	172.3	206.7	238.7	251.0	248.5	243.6	216.6	184.6	167.3	160.0	150.1
72.5°	132.9	167.3	191.9	199.3	201.8	194.4	172.3	142.7	125.5	115.7	108.3
75°	98.4	125.5	145.2	155.0	160.0	155.0	132.9	113.2	96.0	88.6	81.2
77.5°	34.5	41.8	51.7	56.6	54.1	51.7	46.8	46.8	36.9	34.5	29.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	2911.2	2955.5	3036.7	3110.5	3189.2	3270.5	3359.0	3450.1	3491.9	3487.0
5°	2633.1	2729.1	2862.0	3007.1	3169.6	3344.3	3538.7	3738.0	3824.1	3861.1
7.5°	2458.4	2593.7	2768.4	2953.0	3167.1	3415.6	3708.5	4021.0	4146.5	4188.3
10°	2480.5	2638.0	2783.2	2962.8	3191.7	3514.1	3878.3	4249.9	4397.5	4444.3
12.5°	2660.2	2694.6	2734.0	2881.6	3169.6	3587.9	4033.3	4476.3	4646.1	4692.8
15°	2822.6	2662.6	2588.8	2724.1	3090.8	3639.6	4190.8	4719.9	4906.9	4961.1
17.5°	2830.0	2588.8	2423.9	2529.7	2962.8	3661.7	4345.8	4968.4	5172.7	5224.4
20°	2738.9	2507.6	2296.0	2298.4	2788.1	3656.8	4473.8	5192.4	5421.2	5468.0
22.5°	2606.0	2411.6	2192.6	2116.3	2601.1	3647.0	4614.1	5431.1	5679.6	5723.9
25°	2458.4	2288.6	2094.2	1978.5	2414.1	3656.8	4810.9	5743.6	6016.7	6058.6
27.5°	2298.4	2153.2	2017.9	1924.4	2256.6	3693.7	5047.2	6142.3	6467.1	6511.4
30°	2131.1	2022.8	1968.7	1912.1	2158.2	3703.6	5303.1	6607.4	7018.3	7079.8
32.5°	1966.2	1907.1	1909.6	1919.5	2064.6	3634.7	5536.9	7124.1	7672.9	7771.3
35°	1813.6	1796.4	1845.6	1894.8	1929.3	3457.5	5741.1	7734.4	8482.5	8583.4
37.5°	1683.2	1698.0	1759.5	1808.7	1781.6	3206.5	6011.8	8497.3	9388.1	9474.2
40°	1557.7	1594.6	1666.0	1688.1	1668.4	2913.6	6336.7	9233.1	10173.1	10291.2
42.5°	1442.1	1469.1	1570.0	1574.9	1636.5	2615.9	6649.2	10025.5	11076.2	11137.8
45°	1348.5	1343.6	1447.0	1479.0	1678.3	2286.1	6954.3	11081.2	12257.4	12346.0
47.5°	1257.5	1252.6	1277.2	1422.4	1695.5	1981.0	7257.0	12626.6	13970.2	14122.8
50°	1171.4	1178.7	1102.5	1395.3	1602.0	1747.2	7394.8	14056.3	15527.9	15591.9
52.5°	1095.1	1068.0	935.1	1306.7	1402.7	1525.7	7003.5	14706.0	16492.5	16674.6
55°	986.8	836.7	770.2	1060.6	1107.4	1331.3	5736.2	14329.5	16576.2	16898.6
57.5°	844.1	657.0	654.6	782.5	782.5	1235.3	3674.0	12242.7	14285.2	14851.2
60°	649.7	509.4	541.4	543.8	502.0	900.7	2062.2	8868.9	10561.9	11125.5
62.5°	462.6	388.8	408.5	324.8	287.9	450.3	989.3	5106.2	6518.8	6597.5
65°	310.1	263.3	214.1	179.6	177.2	191.9	408.5	1845.6	2244.3	2532.2
67.5°	204.2	160.0	113.2	113.2	128.0	128.0	155.0	305.1	428.2	391.3
70°	132.9	110.7	71.4	68.9	83.7	83.7	78.7	83.7	88.6	88.6
72.5°	98.4	83.7	41.8	36.9	46.8	49.2	44.3	41.8	41.8	41.8
75°	73.8	59.1	24.6	17.2	22.1	29.5	24.6	17.2	17.2	14.8
77.5°	29.5	22.1	9.8	7.4	12.3	17.2	14.8	7.4	4.9	4.9
80°	2.5	4.9	4.9	4.9	7.4	9.8	12.3	4.9	2.5	2.5
82.5°	0.0	2.5	2.5	2.5	4.9	7.4	9.8	4.9	2.5	2.5
85°	0.0	0.0	0.0	0.0	4.9	7.4	4.9	2.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.5	7.4	4.9	2.5	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

(END OF REPORT)