

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: P638703

Luminaire Tested: GWS-SA4F-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638703
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17903.2 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

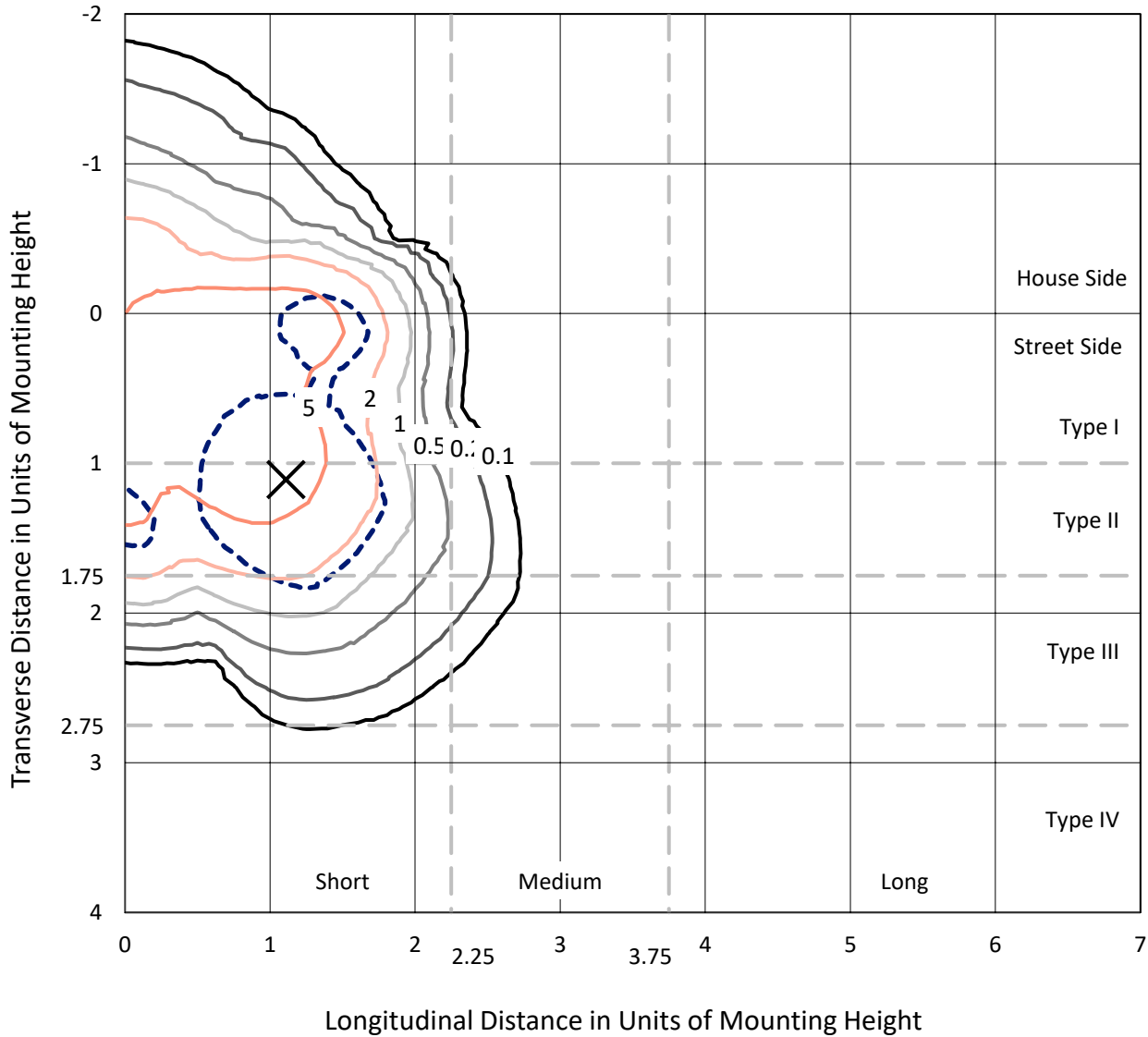
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

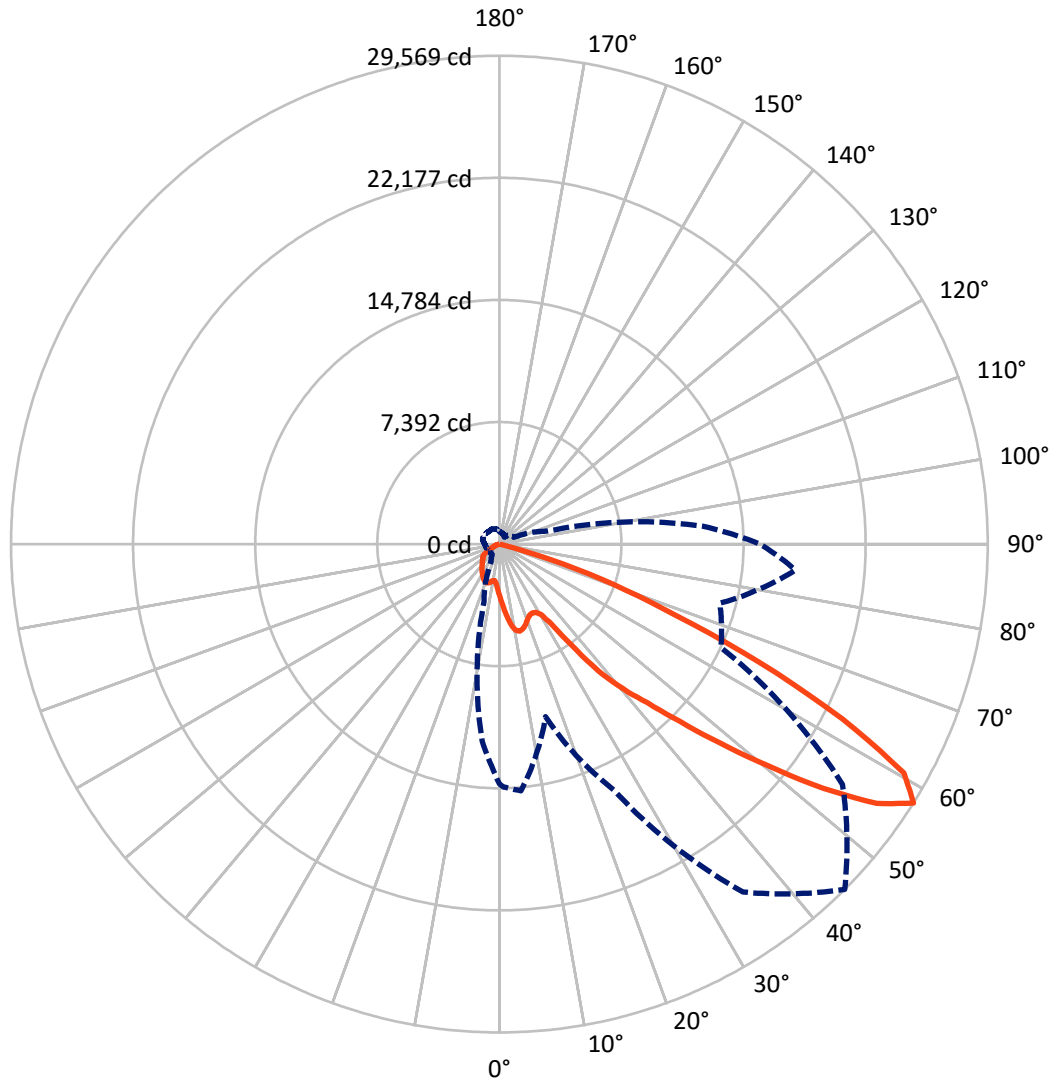
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	4009.0	0.0	4009.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13894.2	0.0	13894.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	17903.2	0.0	17903.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	1.7
10°-20°	1001.4	5.6
20°-30°	1626.7	9.1
30°-40°	2513.5	14.0
40°-50°	4030.5	22.5
50°-60°	5508.6	30.8
60°-70°	2667.9	14.9
70°-80°	244.3	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°	17903.2	100.0
0°-180°	17903.2	100.0

Coefficient of Utilization



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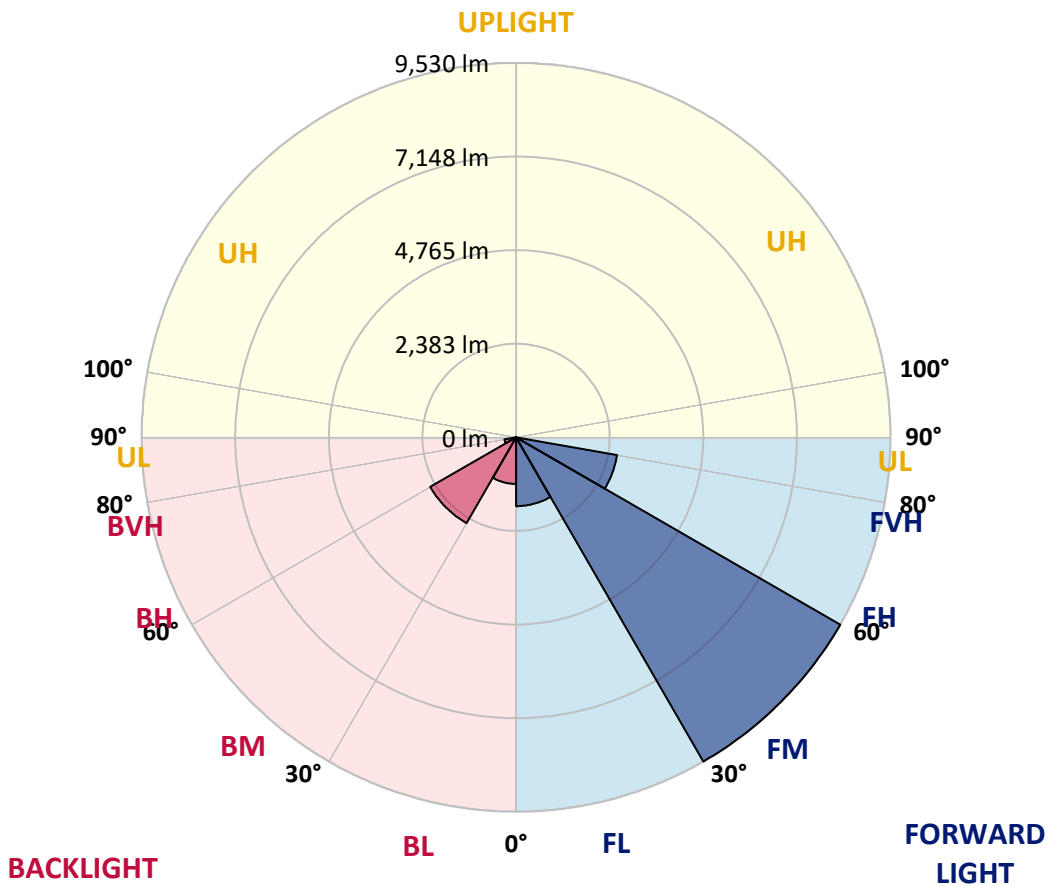
CATALOG NUMBER: GWS-SA4F-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.5	9.8			
FM (30°-60°)	9530.3	53.2			
FH (60°-80°)	2611.7	14.6			G2/5000
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	1186.2	6.6	B3/2500		
BM (30°-60°)	2522.3	14.1	B3/5000		
BH (60°-80°)	300.5	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°	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7
2.5°	3408.9	3430.6	3466.6	3543.6	3608.6	3651.9	3671.1	3666.3	3639.9	3620.6	3582.1
5°	3774.6	3774.6	3844.3	4020.0	4154.7	4238.9	4282.2	4255.7	4202.8	4118.6	3988.7
7.5°	4094.5	4106.6	4224.4	4474.6	4679.1	4799.4	4869.2	4854.7	4760.9	4599.7	4339.9
10°	4344.7	4359.2	4515.5	4821.1	5061.6	5184.3	5287.8	5297.4	5193.9	4979.8	4681.5
12.5°	4587.7	4602.1	4765.7	5059.2	5270.9	5321.4	5412.9	5449.0	5422.5	5270.9	4960.6
15°	4849.9	4883.6	5023.1	5242.1	5331.1	5270.9	5331.1	5396.0	5485.0	5470.6	5191.5
17.5°	5107.3	5131.4	5273.3	5350.3	5251.7	5095.3	5124.2	5201.2	5403.2	5600.5	5420.1
20°	5345.5	5379.2	5497.1	5396.0	5097.7	4854.7	4857.1	4958.2	5266.1	5679.9	5653.4
22.5°	5595.7	5646.2	5730.4	5446.5	4955.8	4664.7	4676.7	4768.1	5157.9	5754.5	5918.1
25°	5922.9	5971.0	6026.3	5571.6	4910.1	4570.9	4616.6	4700.8	5157.9	5882.0	6245.2
27.5°	6365.5	6399.2	6401.6	5805.0	4989.5	4585.3	4681.5	4777.8	5311.8	6137.0	6683.1
30°	6921.3	6974.2	6904.4	6168.3	5237.2	4777.8	4919.7	5040.0	5643.8	6567.6	7327.8
32.5°	7597.3	7671.8	7578.0	6707.1	5754.5	5441.7	5699.1	5768.9	6173.1	7190.7	8059.2
35°	8391.1	8453.7	8352.7	7452.9	6962.1	7019.9	7486.6	7397.6	7236.4	7958.1	8913.2
37.5°	9262.0	9319.8	9124.9	8583.6	8747.2	8997.4	9743.2	9437.6	8918.0	8946.9	9839.4
40°	10060.7	10123.3	9817.7	9812.9	10149.7	10606.8	11506.6	11085.6	10378.3	10241.1	10707.9
42.5°	10888.3	10931.6	10654.9	10467.3	11232.3	12172.9	13125.6	12557.8	11345.4	11196.2	11795.2
45°	12069.5	12160.9	11667.7	10789.6	12206.6	13974.8	15302.8	14193.7	12004.5	11884.2	13460.0
47.5°	13806.4	13873.8	12868.2	10991.7	13113.6	16219.4	18023.6	16315.6	12584.3	12310.1	15735.8
50°	15242.6	15288.3	13972.4	11213.1	14078.3	18639.5	21124.6	18832.0	13236.3	13014.9	17860.1
52.5°	16301.1	16474.4	15423.1	11667.7	15346.1	21485.5	24557.6	21812.6	14253.9	14376.6	19621.0
55°	16520.1	16755.8	16414.2	11946.8	16462.3	24384.4	27728.3	24480.6	15269.1	15408.6	20212.8
57.5°	14518.5	14706.2	14990.0	10820.9	16435.9	25712.3	29568.7	25365.9	14807.2	13818.4	17997.2
60°	10876.3	11006.2	11521.0	8270.9	15115.1	24538.3	28134.9	23859.9	12947.6	10544.3	13712.6
62.5°	6449.7	6507.5	7159.4	5357.5	12545.8	21131.8	23333.1	20588.1	10231.5	7092.1	8398.4
65°	2475.5	2451.4	2949.4	2643.9	9225.9	16832.8	17354.9	15694.9	7019.9	3250.1	3202.0
67.5°	382.5	365.7	493.2	781.9	6654.2	11665.3	11451.2	11311.7	4397.7	757.8	661.6
70°	86.6	86.6	105.9	230.9	4065.7	6853.9	7335.0	6993.4	2814.7	161.2	86.6
72.5°	40.9	40.9	50.5	98.6	1472.3	2824.3	3291.0	3240.5	914.2	52.9	31.3
75°	14.4	16.8	16.8	21.7	89.0	146.7	336.8	240.6	57.7	0.0	0.0
77.5°	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	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°	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7
2.5°	3497.9	3481.1	3418.5	3334.3	3252.5	3180.4	3105.8	3016.8	2951.8	2877.2	2853.2
5°	3887.6	3781.8	3611.0	3433.0	3269.4	3129.8	2995.1	2850.8	2744.9	2639.1	2603.0
7.5°	4217.2	4060.9	3784.2	3517.2	3293.4	3096.2	2901.3	2704.0	2550.1	2425.0	2386.5
10°	4513.1	4332.7	3962.2	3632.6	3351.2	3122.6	2886.9	2639.1	2439.4	2290.2	2254.2
12.5°	4768.1	4558.8	4113.8	3719.2	3375.2	3113.0	2884.5	2687.2	2506.8	2336.0	2290.2
15°	4982.2	4751.3	4241.3	3777.0	3339.1	2992.7	2793.0	2761.8	2747.3	2559.7	2470.7
17.5°	5191.5	4931.7	4344.7	3803.4	3238.1	2781.0	2636.7	2778.6	2930.2	2807.5	2694.4
20°	5410.5	5114.6	4450.6	3808.3	3069.7	2542.8	2518.8	2742.5	2935.0	2896.5	2790.6
22.5°	5667.9	5343.1	4582.9	3805.8	2858.0	2340.8	2432.2	2672.8	2829.1	2826.7	2742.5
25°	6040.8	5631.8	4760.9	3820.3	2627.0	2184.4	2336.0	2554.9	2682.4	2677.6	2607.8
27.5°	6440.1	5975.8	4991.9	3856.4	2429.8	2093.0	2222.9	2393.7	2504.4	2499.5	2439.4
30°	7000.6	6372.7	5213.2	3858.8	2287.8	2044.9	2097.8	2215.7	2321.5	2309.5	2263.8
32.5°	7681.5	6820.2	5398.4	3721.6	2198.8	1999.2	1967.9	2028.0	2109.8	2093.0	2080.9
35°	8504.2	7351.9	5557.2	3420.9	2061.7	1907.7	1823.5	1835.6	1893.3	1902.9	1898.1
37.5°	9442.4	7984.6	5754.5	3024.0	1876.5	1775.4	1662.4	1652.7	1686.4	1717.7	1741.7
40°	10368.6	8696.7	6021.5	2622.2	1708.1	1607.0	1498.8	1474.7	1489.1	1544.5	1595.0
42.5°	11410.3	9521.8	6310.2	2278.2	1592.6	1421.8	1318.3	1272.6	1313.5	1402.5	1462.7
45°	12911.5	10679.0	6591.7	2004.0	1544.5	1258.2	1118.7	1113.8	1159.6	1275.0	1342.4
47.5°	15018.9	12175.3	6776.9	1789.9	1542.1	1130.7	964.7	993.6	1046.5	1159.6	1236.5
50°	17073.4	14049.4	6572.4	1626.3	1491.5	1046.5	849.2	907.0	959.9	1058.5	1137.9
52.5°	18312.3	15057.4	5776.1	1472.3	1335.2	1008.0	736.1	837.2	846.8	935.8	1020.0
55°	18182.4	14405.4	4424.1	1234.1	1104.2	952.7	618.3	755.4	760.2	827.6	899.7
57.5°	15781.5	12367.8	3038.4	1000.8	830.0	786.7	510.0	637.5	683.2	724.1	777.0
60°	11761.6	9023.8	1354.4	813.1	526.9	531.7	435.4	481.1	550.9	599.0	644.7
62.5°	6930.9	5191.5	550.9	488.4	291.1	334.4	351.2	351.2	394.5	430.6	459.5
65°	2619.8	1816.3	223.7	245.4	151.6	156.4	206.9	255.0	288.7	320.0	358.5
67.5°	459.5	317.6	115.5	91.4	89.0	79.4	105.9	166.0	185.2	209.3	226.1
70°	77.0	65.0	48.1	45.7	40.9	43.3	69.8	117.9	129.9	137.1	144.3
72.5°	21.7	19.2	14.4	12.0	9.6	12.0	43.3	91.4	96.2	101.0	108.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	16.8	65.0	69.8	72.2	79.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	19.2	24.1	19.2
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°	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7
2.5°	2838.7	2790.6	2764.2	2749.7	2749.7	2730.5	2708.8	2701.6	2732.9	2732.9	2785.8
5°	2557.3	2518.8	2475.5	2449.0	2408.1	2415.3	2391.3	2388.9	2420.2	2434.6	2489.9
7.5°	2362.4	2314.3	2287.8	2271.0	2249.3	2239.7	2218.1	2210.9	2227.7	2251.8	2304.7
10°	2232.5	2225.3	2222.9	2234.9	2234.9	2222.9	2203.6	2191.6	2196.4	2242.1	2302.3
12.5°	2266.2	2280.6	2285.4	2304.7	2314.3	2304.7	2290.2	2295.1	2326.3	2410.5	2499.5
15°	2412.9	2400.9	2396.1	2405.7	2412.9	2403.3	2398.5	2434.6	2542.8	2663.1	2764.2
17.5°	2569.3	2492.3	2458.6	2458.6	2463.5	2458.6	2463.5	2533.2	2708.8	2829.1	2903.7
20°	2648.7	2506.8	2453.8	2441.8	2451.4	2453.8	2470.7	2550.1	2742.5	2826.7	2843.6
22.5°	2624.6	2446.6	2386.5	2376.8	2386.5	2396.1	2412.9	2480.3	2660.7	2704.0	2696.8
25°	2504.4	2328.7	2280.6	2280.6	2302.3	2299.9	2307.1	2355.2	2504.4	2530.8	2518.8
27.5°	2352.8	2186.8	2145.9	2170.0	2189.2	2184.4	2186.8	2227.7	2338.4	2345.6	2333.5
30°	2198.8	2054.5	2016.0	2044.9	2071.3	2066.5	2068.9	2109.8	2179.6	2172.4	2155.5
32.5°	2042.5	1936.6	1907.7	1924.6	1965.5	1960.7	1970.3	2013.6	2040.0	2008.8	1989.5
35°	1898.1	1842.8	1821.1	1830.8	1862.0	1869.2	1886.1	1915.0	1915.0	1876.5	1842.8
37.5°	1763.4	1756.2	1741.7	1729.7	1758.6	1780.2	1804.3	1838.0	1789.9	1734.5	1703.2
40°	1638.3	1669.6	1650.3	1619.0	1635.9	1667.2	1715.3	1741.7	1684.0	1628.7	1575.7
42.5°	1522.8	1575.7	1568.5	1530.0	1544.5	1573.3	1628.7	1650.3	1583.0	1520.4	1469.9
45°	1412.2	1486.7	1491.5	1443.4	1457.9	1486.7	1551.7	1558.9	1472.3	1404.9	1368.9
47.5°	1315.9	1397.7	1400.1	1364.0	1368.9	1409.8	1469.9	1472.3	1373.7	1311.1	1265.4
50°	1224.5	1318.3	1325.6	1294.3	1299.1	1347.2	1397.7	1388.1	1282.2	1217.3	1176.4
52.5°	1113.8	1241.4	1258.2	1243.8	1263.0	1301.5	1332.8	1299.1	1176.4	1111.4	1075.4
55°	993.6	1159.6	1195.6	1186.0	1207.7	1238.9	1246.2	1224.5	1070.5	1005.6	971.9
57.5°	854.0	955.1	1017.6	998.4	1015.2	1046.5	1068.1	1051.3	935.8	885.3	856.4
60°	707.3	774.6	789.1	757.8	743.4	798.7	849.2	827.6	728.9	697.7	664.0
62.5°	517.2	594.2	603.8	562.9	546.1	606.2	649.5	627.9	519.6	486.0	459.5
65°	413.8	486.0	505.2	466.7	457.1	502.8	529.3	476.3	399.3	363.3	334.4
67.5°	271.8	329.6	380.1	377.7	358.5	372.9	353.6	310.3	255.0	235.8	216.5
70°	168.4	202.1	233.4	245.4	243.0	238.2	211.7	180.4	163.6	156.4	146.7
72.5°	129.9	163.6	187.6	194.9	197.3	190.1	168.4	139.5	122.7	113.1	105.9
75°	96.2	122.7	141.9	151.6	156.4	151.6	129.9	110.7	93.8	86.6	79.4
77.5°	33.7	40.9	50.5	55.3	52.9	50.5	45.7	45.7	36.1	33.7	28.9
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°	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7	3146.7
2.5°	2846.0	2889.3	2968.7	3040.8	3117.8	3197.2	3283.8	3372.8	3413.7	3408.9
5°	2574.1	2667.9	2797.9	2939.8	3098.6	3269.4	3459.4	3654.3	3738.5	3774.6
7.5°	2403.3	2535.6	2706.4	2886.9	3096.2	3339.1	3625.4	3930.9	4053.6	4094.5
10°	2425.0	2578.9	2720.9	2896.5	3120.2	3435.4	3791.4	4154.7	4299.0	4344.7
12.5°	2600.6	2634.3	2672.8	2817.1	3098.6	3507.5	3943.0	4376.0	4542.0	4587.7
15°	2759.4	2603.0	2530.8	2663.1	3021.6	3558.1	4096.9	4614.2	4797.0	4849.9
17.5°	2766.6	2530.8	2369.6	2473.1	2896.5	3579.7	4248.5	4857.1	5056.8	5107.3
20°	2677.6	2451.4	2244.5	2246.9	2725.7	3574.9	4373.6	5076.1	5299.8	5345.5
22.5°	2547.7	2357.6	2143.5	2068.9	2542.8	3565.3	4510.7	5309.4	5552.4	5595.7
25°	2403.3	2237.3	2047.3	1934.2	2360.0	3574.9	4703.2	5614.9	5882.0	5922.9
27.5°	2246.9	2105.0	1972.7	1881.3	2206.0	3611.0	4934.1	6004.7	6322.2	6365.5
30°	2083.4	1977.5	1924.6	1869.2	2109.8	3620.6	5184.3	6459.4	6861.1	6921.3
32.5°	1922.2	1864.4	1866.8	1876.5	2018.4	3553.2	5412.9	6964.6	7501.0	7597.3
35°	1773.0	1756.2	1804.3	1852.4	1886.1	3380.0	5612.5	7561.2	8292.5	8391.1
37.5°	1645.5	1659.9	1720.1	1768.2	1741.7	3134.7	5877.2	8306.9	9177.8	9262.0
40°	1522.8	1558.9	1628.7	1650.3	1631.1	2848.4	6194.7	9026.3	9945.2	10060.7
42.5°	1409.8	1436.2	1534.8	1539.7	1599.8	2557.3	6500.3	9800.9	10828.1	10888.3
45°	1318.3	1313.5	1414.6	1445.8	1640.7	2234.9	6798.6	10832.9	11982.9	12069.5
47.5°	1229.3	1224.5	1248.6	1390.5	1657.5	1936.6	7094.5	12343.7	13657.3	13806.4
50°	1145.1	1152.3	1077.8	1364.0	1566.1	1708.1	7229.2	13741.5	15180.1	15242.6
52.5°	1070.5	1044.1	914.2	1277.4	1371.3	1491.5	6846.7	14376.6	16123.1	16301.1
55°	964.7	817.9	753.0	1036.9	1082.6	1301.5	5607.7	14008.5	16204.9	16520.1
57.5°	825.2	642.3	639.9	765.0	765.0	1207.7	3591.7	11968.4	13965.2	14518.5
60°	635.1	498.0	529.3	531.7	490.8	880.5	2016.0	8670.2	10325.3	10876.3
62.5°	452.3	380.1	399.3	317.6	281.5	440.2	967.1	4991.9	6372.7	6449.7
65°	303.1	257.4	209.3	175.6	173.2	187.6	399.3	1804.3	2194.0	2475.5
67.5°	199.7	156.4	110.7	110.7	125.1	125.1	151.6	298.3	418.6	382.5
70°	129.9	108.3	69.8	67.4	81.8	81.8	77.0	81.8	86.6	86.6
72.5°	96.2	81.8	40.9	36.1	45.7	48.1	43.3	40.9	40.9	40.9
75°	72.2	57.7	24.1	16.8	21.7	28.9	24.1	16.8	16.8	14.4
77.5°	28.9	21.7	9.6	7.2	12.0	16.8	14.4	7.2	4.8	4.8
80°	2.4	4.8	4.8	4.8	7.2	9.6	12.0	4.8	2.4	2.4
82.5°	0.0	2.4	2.4	2.4	4.8	7.2	9.6	4.8	2.4	2.4
85°	0.0	0.0	0.0	0.0	4.8	7.2	4.8	2.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.4	7.2	4.8	2.4	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)