

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: P643158

Luminaire Tested: GWS-SA6E-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643158
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-SAGE-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23554.4 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

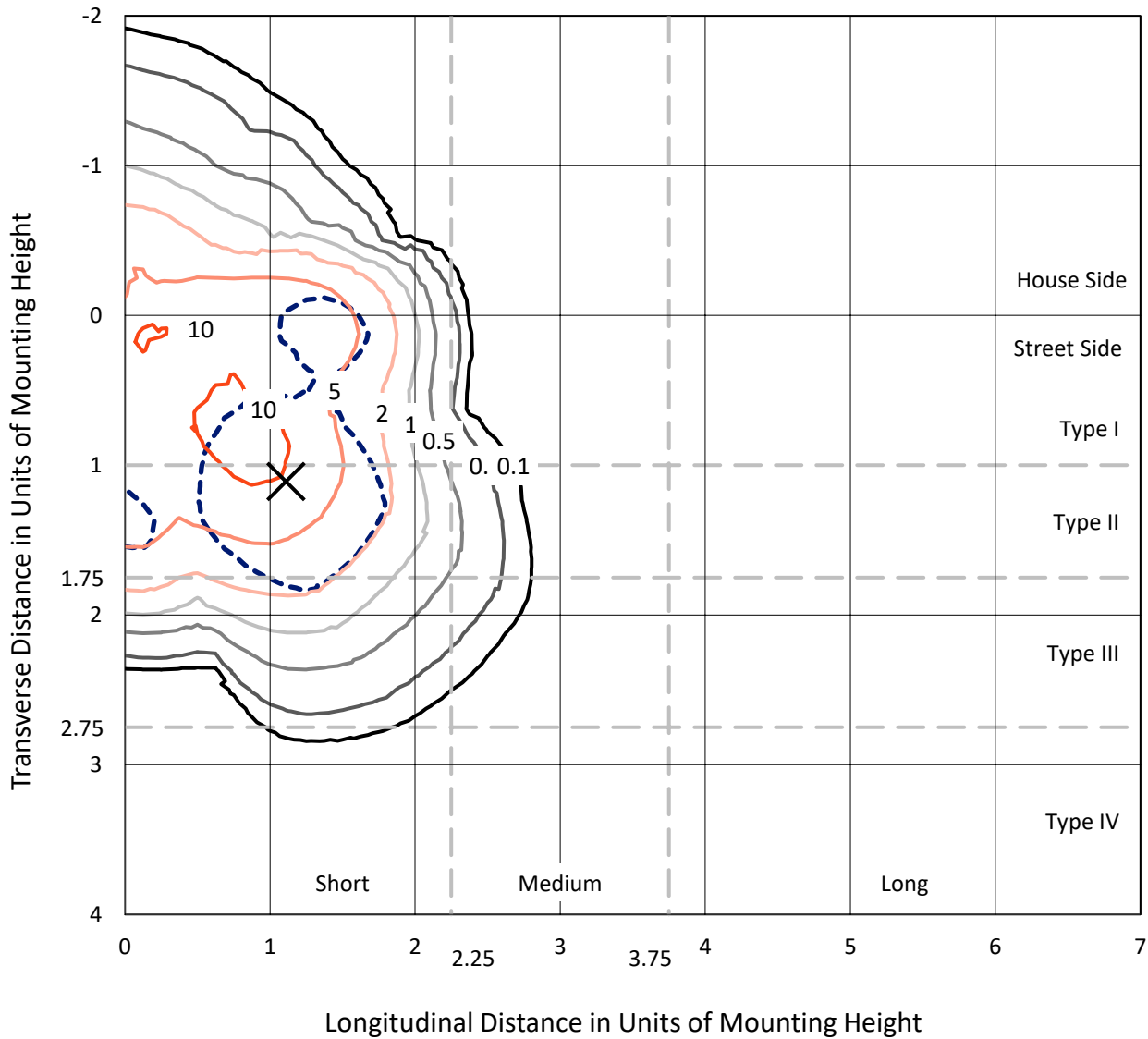
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

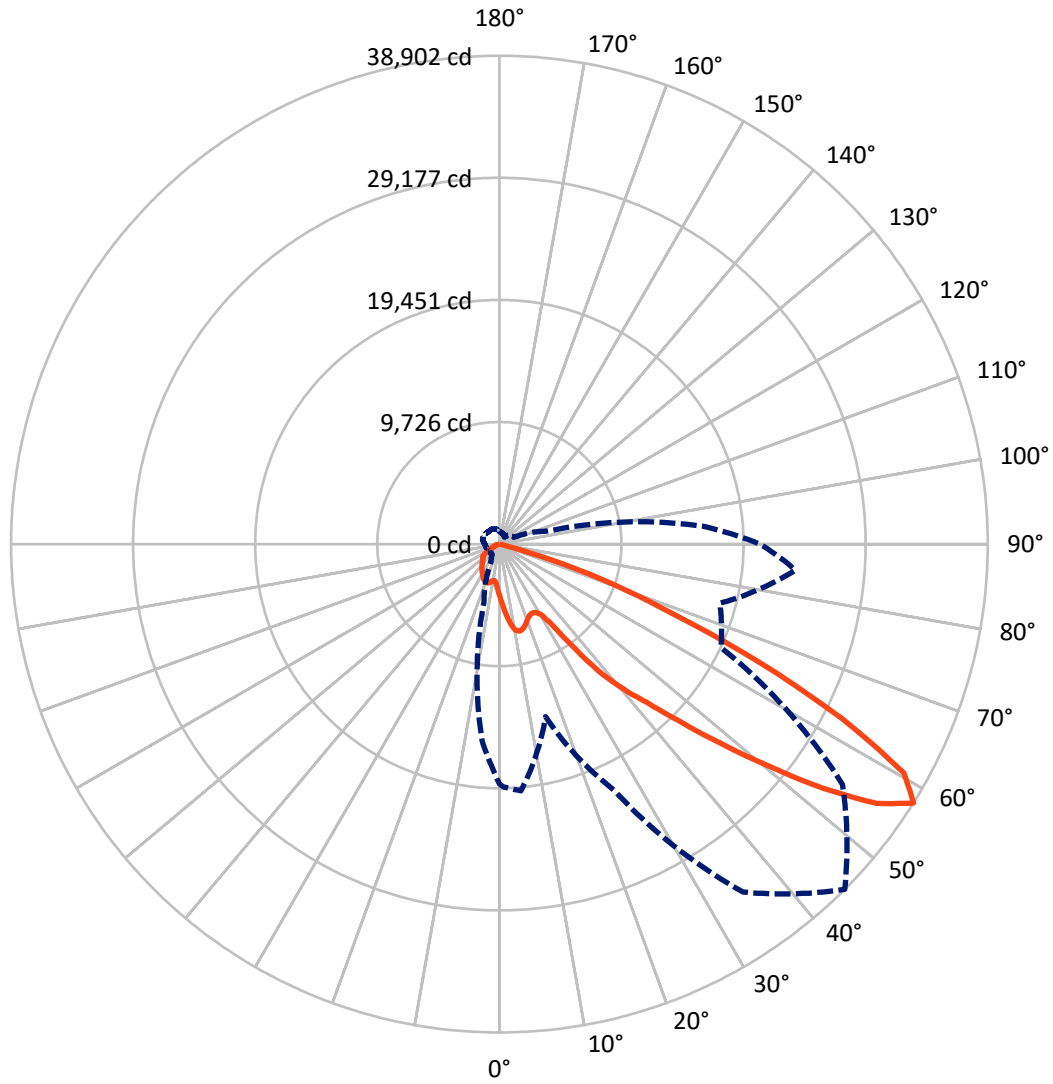
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	5274.5	0.0	5274.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18279.9	0.0	18279.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	23554.4	0.0	23554.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.7
10°-20°	1317.5	5.6
20°-30°	2140.2	9.1
30°-40°	3306.9	14.0
40°-50°	5302.7	22.5
50°-60°	7247.4	30.8
60°-70°	3510.1	14.9
70°-80°	321.4	1.4
80°-90°	0.9	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°	23554.4	100.0
0°-180°	23554.4	100.0

Coefficient of Utilization



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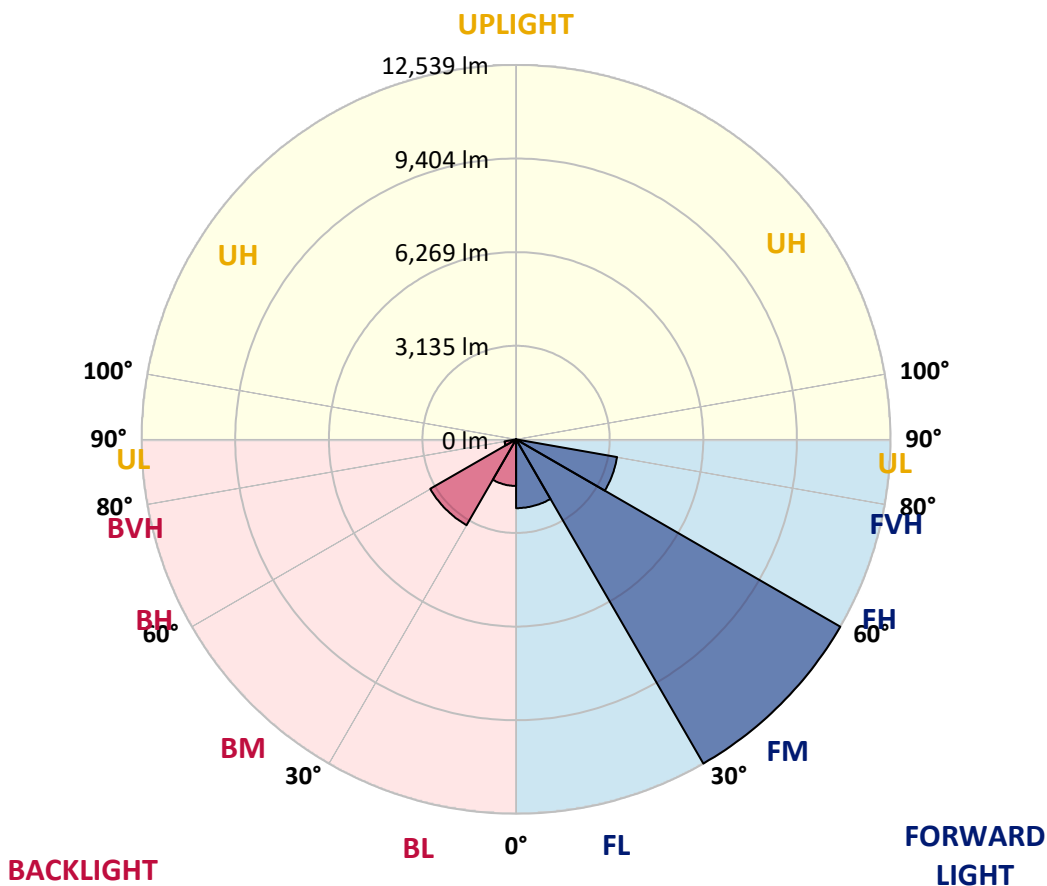
CATALOG NUMBER: GWS-SA6E-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.3	9.8			
FM (30°-60°)	12538.5	53.2			
FH (60°-80°)	3436.1	14.6			G2/5000
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	1560.7	6.6	B3/2500		
BM (30°-60°)	3318.5	14.1	B3/5000		
BH (60°-80°)	395.3	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°	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9
2.5°	4484.9	4513.4	4560.9	4662.2	4747.6	4804.6	4829.9	4823.6	4788.8	4763.5	4712.8
5°	4966.0	4966.0	5057.8	5288.9	5466.1	5576.9	5633.9	5599.0	5529.4	5418.6	5247.7
7.5°	5387.0	5402.8	5557.9	5887.1	6156.1	6314.4	6406.1	6387.2	6263.7	6051.7	5709.8
10°	5716.2	5735.1	5940.9	6342.8	6659.4	6820.8	6956.9	6969.5	6833.4	6551.7	6159.3
12.5°	6035.8	6054.8	6270.0	6656.2	6934.7	7001.2	7121.5	7168.9	7134.1	6934.7	6526.4
15°	6380.8	6425.1	6608.7	6896.7	7013.8	6934.7	7013.8	7099.3	7216.4	7197.4	6830.3
17.5°	6719.5	6751.1	6937.9	7039.2	6909.4	6703.7	6741.6	6842.9	7108.8	7368.3	7130.9
20°	7032.8	7077.1	7232.2	7099.3	6706.8	6387.2	6390.3	6523.3	6928.4	7472.8	7438.0
22.5°	7362.0	7428.5	7539.2	7165.8	6520.1	6137.1	6152.9	6273.2	6786.0	7570.9	7786.1
25°	7792.5	7855.8	7928.6	7330.4	6460.0	6013.7	6073.8	6184.6	6786.0	7738.6	8216.6
27.5°	8374.8	8419.1	8422.3	7637.4	6564.4	6032.7	6159.3	6285.9	6988.5	8074.1	8792.6
30°	9106.0	9175.6	9083.8	8115.3	6890.4	6285.9	6472.6	6630.9	7425.3	8640.7	9640.9
32.5°	9995.4	10093.5	9970.0	8824.3	7570.9	7159.4	7498.1	7589.9	8121.6	9460.5	10603.1
35°	11039.8	11122.1	10989.2	9805.5	9159.8	9235.7	9849.8	9732.7	9520.6	10470.1	11726.7
37.5°	12185.6	12261.6	12005.2	11293.0	11508.3	11837.4	12818.6	12416.7	11733.0	11771.0	12945.2
40°	13236.4	13318.7	12916.7	12910.4	13353.5	13954.9	15138.6	14584.7	13654.2	13473.8	14087.8
42.5°	14325.2	14382.2	14018.2	13771.3	14777.8	16015.4	17268.7	16521.8	14926.6	14730.3	15518.4
45°	15879.3	15999.5	15350.7	14195.4	16059.7	18386.0	20133.1	18674.0	15793.8	15635.5	17708.7
47.5°	18164.5	18253.1	16930.1	14461.3	17252.9	21339.0	23712.9	21465.6	16556.6	16195.8	20702.9
50°	20054.0	20114.2	18382.8	14752.5	18522.1	24523.1	27792.7	24776.3	17414.3	17123.1	23497.6
52.5°	21446.7	21674.5	20291.4	15350.7	20190.1	28267.4	32309.2	28697.9	18753.2	18914.6	25814.5
55°	21734.7	22044.9	21595.4	15717.8	21658.7	32081.4	36480.8	32208.0	20088.8	20272.4	26593.1
57.5°	19101.3	19348.2	19721.7	14236.6	21623.9	33828.5	38902.1	33372.7	19481.1	18180.3	23678.0
60°	14309.4	14480.3	15157.6	10881.6	19886.3	32283.9	37015.7	31391.4	17034.5	13872.6	18041.0
62.5°	8485.6	8561.6	9419.3	7048.7	16505.9	27802.2	30698.2	27086.8	13461.1	9330.7	11049.3
65°	3256.9	3225.2	3880.4	3478.4	12138.1	22146.1	22833.0	20649.1	9235.7	4276.0	4212.7
67.5°	503.2	481.1	648.8	1028.7	8754.6	15347.5	15065.8	14882.3	5785.8	997.0	870.4
70°	113.9	113.9	139.3	303.8	5349.0	9017.3	9650.4	9200.9	3703.2	212.1	113.9
72.5°	53.8	53.8	66.5	129.8	1937.0	3715.8	4329.8	4263.4	1202.7	69.6	41.1
75°	19.0	22.2	22.2	28.5	117.1	193.1	443.1	316.5	76.0	0.0	0.0
77.5°	6.3	6.3	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	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°	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9
2.5°	4602.0	4579.9	4497.6	4386.8	4279.2	4184.2	4086.1	3969.0	3883.6	3785.4	3753.8
5°	5114.8	4975.5	4750.8	4516.6	4301.4	4117.8	3940.5	3750.6	3611.4	3472.1	3424.6
7.5°	5548.4	5342.7	4978.7	4627.4	4333.0	4073.5	3817.1	3557.6	3355.0	3190.4	3139.8
10°	5937.7	5700.3	5212.9	4779.3	4409.0	4108.3	3798.1	3472.1	3209.4	3013.2	2965.7
12.5°	6273.2	5997.8	5412.3	4893.2	4440.6	4095.6	3794.9	3535.4	3298.0	3073.3	3013.2
15°	6554.9	6251.1	5580.1	4969.2	4393.1	3937.4	3674.7	3633.5	3614.5	3367.7	3250.5
17.5°	6830.3	6488.4	5716.2	5004.0	4260.2	3658.8	3468.9	3655.7	3855.1	3693.7	3544.9
20°	7118.3	6729.0	5855.4	5010.3	4038.7	3345.5	3313.8	3608.2	3861.4	3810.8	3671.5
22.5°	7457.0	7029.7	6029.5	5007.2	3760.1	3079.6	3199.9	3516.4	3722.1	3719.0	3608.2
25°	7947.5	7409.5	6263.7	5026.2	3456.3	2873.9	3073.3	3361.3	3529.1	3522.7	3431.0
27.5°	8472.9	7862.1	6567.6	5073.6	3196.7	2753.6	2924.5	3149.3	3294.9	3288.5	3209.4
30°	9210.4	8384.3	6858.8	5076.8	3010.0	2690.3	2760.0	2915.0	3054.3	3038.5	2978.4
32.5°	10106.1	8973.0	7102.5	4896.4	2892.9	2630.2	2589.0	2668.2	2775.8	2753.6	2737.8
35°	11188.6	9672.5	7311.4	4500.8	2712.5	2509.9	2399.1	2415.0	2490.9	2503.6	2497.3
37.5°	12423.0	10504.9	7570.9	3978.5	2468.8	2335.8	2187.1	2174.4	2218.7	2259.9	2291.5
40°	13641.5	11441.8	7922.2	3449.9	2247.2	2114.3	1971.9	1940.2	1959.2	2032.0	2098.5
42.5°	15012.0	12527.4	8302.0	2997.3	2095.3	1870.6	1734.5	1674.3	1728.1	1845.2	1924.4
45°	16987.0	14049.8	8672.3	2636.5	2032.0	1655.3	1471.8	1465.4	1525.6	1677.5	1766.1
47.5°	19759.7	16018.5	8916.1	2354.8	2028.8	1487.6	1269.2	1307.2	1376.8	1525.6	1626.9
50°	22462.6	18484.1	8647.0	2139.6	1962.4	1376.8	1117.3	1193.2	1262.9	1392.6	1497.1
52.5°	24092.7	19810.3	7599.4	1937.0	1756.6	1326.2	968.5	1101.5	1114.1	1231.2	1342.0
55°	23921.8	18952.6	5820.6	1623.7	1452.8	1253.4	813.4	993.8	1000.2	1088.8	1183.7
57.5°	20763.0	16271.7	3997.5	1316.7	1092.0	1035.0	671.0	838.7	898.9	952.7	1022.3
60°	15474.1	11872.3	1781.9	1069.8	693.2	699.5	572.9	633.0	724.8	788.1	848.2
62.5°	9118.6	6830.3	724.8	642.5	383.0	439.9	462.1	462.1	519.1	566.6	604.5
65°	3446.8	2389.6	294.4	322.8	199.4	205.7	272.2	335.5	379.8	421.0	471.6
67.5°	604.5	417.8	151.9	120.3	117.1	104.4	139.3	218.4	243.7	275.4	297.5
70°	101.3	85.5	63.3	60.1	53.8	57.0	91.8	155.1	170.9	180.4	189.9
72.5°	28.5	25.3	19.0	15.8	12.7	15.8	57.0	120.3	126.6	132.9	142.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	22.2	85.5	91.8	95.0	104.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	25.3	31.7	25.3
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°	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9
2.5°	3734.8	3671.5	3636.7	3617.7	3617.7	3592.4	3563.9	3554.4	3595.5	3595.5	3665.2
5°	3364.5	3313.8	3256.9	3222.1	3168.3	3177.8	3146.1	3142.9	3184.1	3203.1	3275.9
7.5°	3108.1	3044.8	3010.0	2987.8	2959.4	2946.7	2918.2	2908.7	2930.9	2962.5	3032.2
10°	2937.2	2927.7	2924.5	2940.4	2940.4	2924.5	2899.2	2883.4	2889.7	2949.9	3029.0
12.5°	2981.5	3000.5	3006.8	3032.2	3044.8	3032.2	3013.2	3019.5	3060.6	3171.4	3288.5
15°	3174.6	3158.8	3152.4	3165.1	3174.6	3161.9	3155.6	3203.1	3345.5	3503.8	3636.7
17.5°	3380.3	3279.0	3234.7	3234.7	3241.1	3234.7	3241.1	3332.8	3563.9	3722.1	3820.3
20°	3484.8	3298.0	3228.4	3212.6	3225.2	3228.4	3250.5	3355.0	3608.2	3719.0	3741.1
22.5°	3453.1	3218.9	3139.8	3127.1	3139.8	3152.4	3174.6	3263.2	3500.6	3557.6	3548.1
25°	3294.9	3063.8	3000.5	3000.5	3029.0	3025.8	3035.3	3098.6	3294.9	3329.7	3313.8
27.5°	3095.5	2877.1	2823.3	2854.9	2880.2	2873.9	2877.1	2930.9	3076.5	3086.0	3070.1
30°	2892.9	2703.0	2652.3	2690.3	2725.1	2718.8	2722.0	2775.8	2867.6	2858.1	2835.9
32.5°	2687.2	2547.9	2509.9	2532.1	2585.9	2579.5	2592.2	2649.2	2684.0	2642.9	2617.5
35°	2497.3	2424.5	2396.0	2408.6	2449.8	2459.3	2481.4	2519.4	2519.4	2468.8	2424.5
37.5°	2320.0	2310.5	2291.5	2275.7	2313.7	2342.2	2373.8	2418.1	2354.8	2282.0	2240.9
40°	2155.4	2196.6	2171.3	2130.1	2152.3	2193.4	2256.7	2291.5	2215.6	2142.8	2073.1
42.5°	2003.5	2073.1	2063.6	2013.0	2032.0	2070.0	2142.8	2171.3	2082.6	2000.3	1933.9
45°	1857.9	1956.0	1962.4	1899.1	1918.0	1956.0	2041.5	2051.0	1937.0	1848.4	1800.9
47.5°	1731.3	1838.9	1842.1	1794.6	1800.9	1854.7	1933.9	1937.0	1807.3	1725.0	1664.8
50°	1611.0	1734.5	1744.0	1702.8	1709.1	1772.5	1838.9	1826.3	1687.0	1601.5	1547.7
52.5°	1465.4	1633.2	1655.3	1636.4	1661.7	1712.3	1753.5	1709.1	1547.7	1462.3	1414.8
55°	1307.2	1525.6	1573.1	1560.4	1588.9	1630.0	1639.5	1611.0	1408.5	1323.0	1278.7
57.5°	1123.6	1256.5	1338.8	1313.5	1335.7	1376.8	1405.3	1383.1	1231.2	1164.8	1126.8
60°	930.5	1019.2	1038.1	997.0	978.0	1050.8	1117.3	1088.8	959.0	917.9	873.6
62.5°	680.5	781.8	794.4	740.6	718.5	797.6	854.6	826.1	683.7	639.3	604.5
65°	544.4	639.3	664.7	614.0	601.4	661.5	696.3	626.7	525.4	477.9	439.9
67.5°	357.7	433.6	500.1	496.9	471.6	490.6	465.3	408.3	335.5	310.2	284.9
70°	221.6	265.9	307.0	322.8	319.7	313.3	278.5	237.4	215.2	205.7	193.1
72.5°	170.9	215.2	246.9	256.4	259.5	250.0	221.6	183.6	161.4	148.8	139.3
75°	126.6	161.4	186.7	199.4	205.7	199.4	170.9	145.6	123.4	113.9	104.4
77.5°	44.3	53.8	66.5	72.8	69.6	66.5	60.1	60.1	47.5	44.3	38.0
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°	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9	4139.9
2.5°	3744.3	3801.3	3905.7	4000.7	4102.0	4206.4	4320.3	4437.5	4491.3	4484.9
5°	3386.6	3510.1	3681.0	3867.7	4076.6	4301.4	4551.4	4807.8	4918.6	4966.0
7.5°	3161.9	3336.0	3560.7	3798.1	4073.5	4393.1	4769.8	5171.8	5333.2	5387.0
10°	3190.4	3393.0	3579.7	3810.8	4105.1	4519.7	4988.2	5466.1	5656.0	5716.2
12.5°	3421.5	3465.8	3516.4	3706.3	4076.6	4614.7	5187.6	5757.3	5975.7	6035.8
15°	3630.4	3424.6	3329.7	3503.8	3975.4	4681.2	5390.1	6070.6	6311.2	6380.8
17.5°	3639.9	3329.7	3117.6	3253.7	3810.8	4709.7	5589.6	6390.3	6653.0	6719.5
20°	3522.7	3225.2	2953.0	2956.2	3586.0	4703.3	5754.1	6678.3	6972.7	7032.8
22.5°	3351.8	3101.8	2820.1	2722.0	3345.5	4690.7	5934.5	6985.4	7305.0	7362.0
25°	3161.9	2943.5	2693.5	2544.7	3105.0	4703.3	6187.8	7387.3	7738.6	7792.5
27.5°	2956.2	2769.5	2595.4	2475.1	2902.4	4750.8	6491.6	7900.1	8317.9	8374.8
30°	2741.0	2601.7	2532.1	2459.3	2775.8	4763.5	6820.8	8498.3	9026.8	9106.0
32.5°	2528.9	2452.9	2456.1	2468.8	2655.5	4674.8	7121.5	9162.9	9868.8	9995.4
35°	2332.7	2310.5	2373.8	2437.1	2481.4	4447.0	7384.2	9947.9	10910.1	11039.8
37.5°	2164.9	2183.9	2263.0	2326.3	2291.5	4124.1	7732.3	10929.1	12074.8	12185.6
40°	2003.5	2051.0	2142.8	2171.3	2145.9	3747.5	8150.1	11875.4	13084.5	13236.4
42.5°	1854.7	1889.6	2019.3	2025.7	2104.8	3364.5	8552.1	12894.6	14246.1	14325.2
45°	1734.5	1728.1	1861.1	1902.2	2158.6	2940.4	8944.5	14252.4	15765.3	15879.3
47.5°	1617.4	1611.0	1642.7	1829.4	2180.7	2547.9	9333.9	16240.1	17968.2	18164.5
50°	1506.6	1516.1	1418.0	1794.6	2060.5	2247.2	9511.1	18079.0	19971.7	20054.0
52.5°	1408.5	1373.6	1202.7	1680.7	1804.1	1962.4	9007.8	18914.6	21212.4	21446.7
55°	1269.2	1076.1	990.7	1364.2	1424.3	1712.3	7377.8	18430.3	21320.1	21734.7
57.5°	1085.6	845.1	841.9	1006.5	1006.5	1588.9	4725.5	15746.3	18373.4	19101.3
60°	835.6	655.2	696.3	699.5	645.7	1158.4	2652.3	11407.0	13584.6	14309.4
62.5°	595.0	500.1	525.4	417.8	370.3	579.2	1272.4	6567.6	8384.3	8485.6
65°	398.8	338.7	275.4	231.1	227.9	246.9	525.4	2373.8	2886.6	3256.9
67.5°	262.7	205.7	145.6	145.6	164.6	164.6	199.4	392.5	550.7	503.2
70°	170.9	142.4	91.8	88.6	107.6	107.6	101.3	107.6	113.9	113.9
72.5°	126.6	107.6	53.8	47.5	60.1	63.3	57.0	53.8	53.8	53.8
75°	95.0	76.0	31.7	22.2	28.5	38.0	31.7	22.2	22.2	19.0
77.5°	38.0	28.5	12.7	9.5	15.8	22.2	19.0	9.5	6.3	6.3
80°	3.2	6.3	6.3	6.3	9.5	12.7	15.8	6.3	3.2	3.2
82.5°	0.0	3.2	3.2	3.2	6.3	9.5	12.7	6.3	3.2	3.2
85°	0.0	0.0	0.0	0.0	6.3	9.5	6.3	3.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	3.2	9.5	6.3	3.2	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)