

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: P641178

Luminaire Tested: GWS-SA5F-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641178
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-SA5F-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21962.1 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

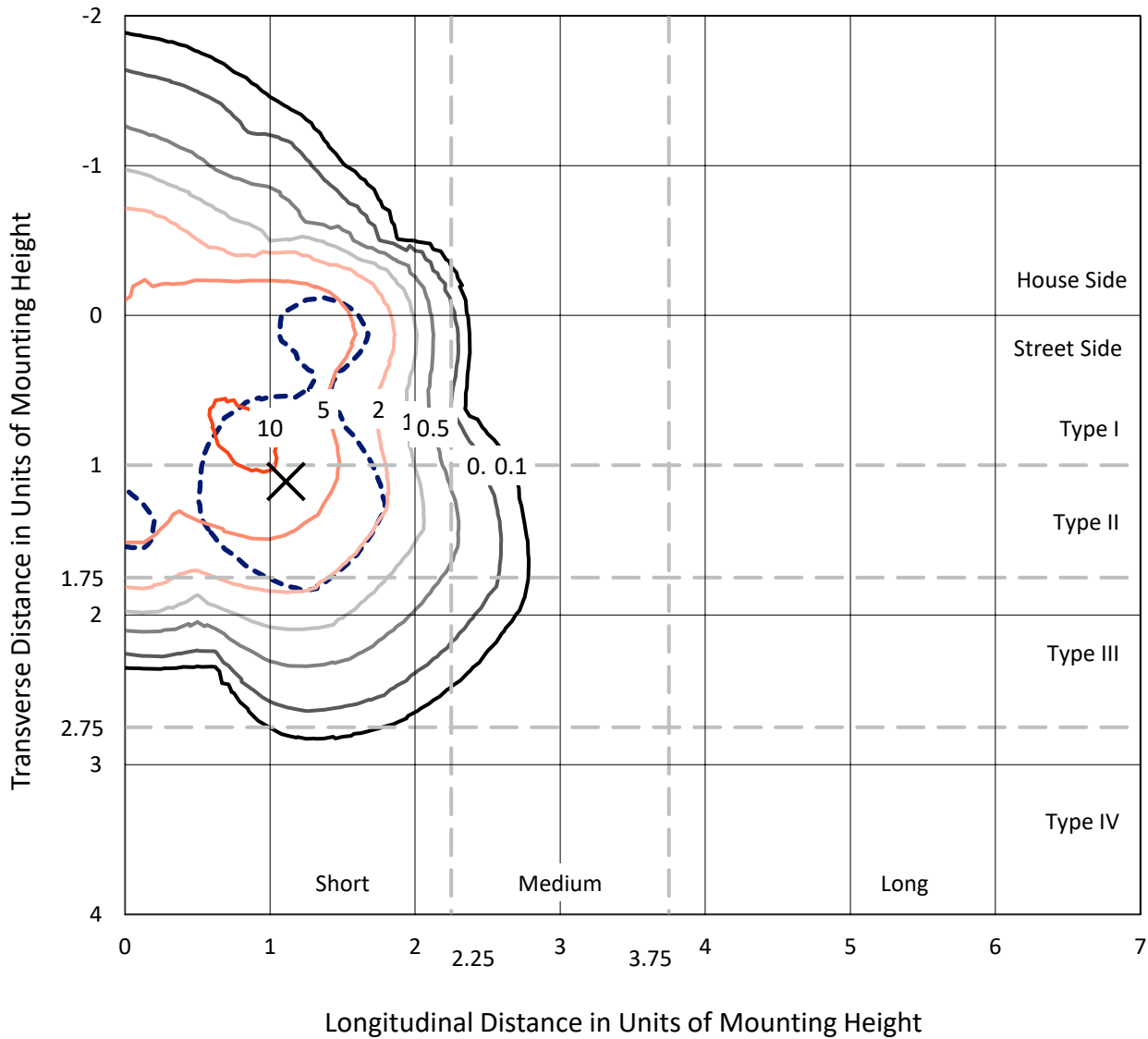
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

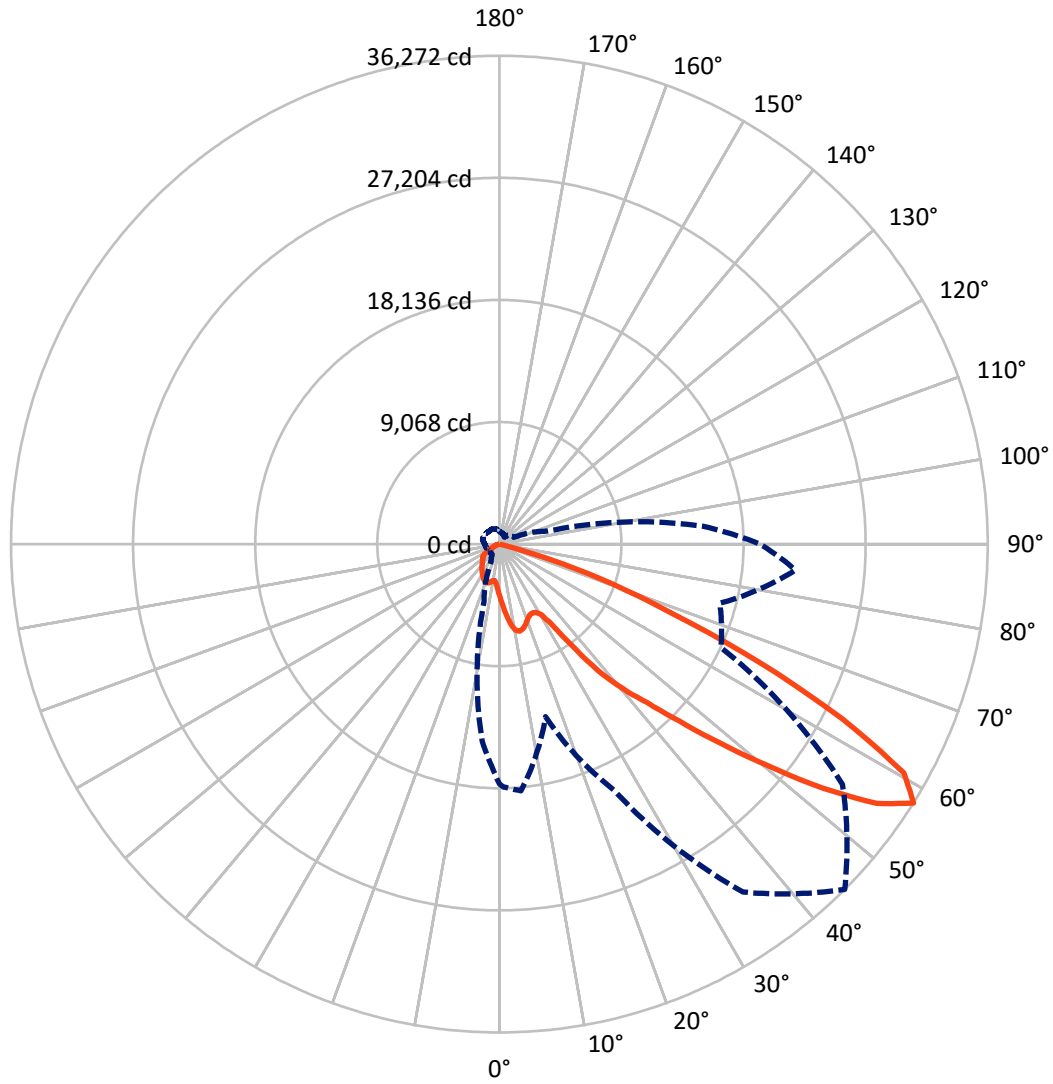
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	4917.9	0.0	4917.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17044.2	0.0	17044.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	21962.1	0.0	21962.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.7	1.7
10°-20°	1228.4	5.6
20°-30°	1995.5	9.1
30°-40°	3083.4	14.0
40°-50°	4944.2	22.5
50°-60°	6757.4	30.8
60°-70°	3272.8	14.9
70°-80°	299.7	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°	21962.1	100.0
0°-180°	21962.1	100.0

Coefficient of Utilization



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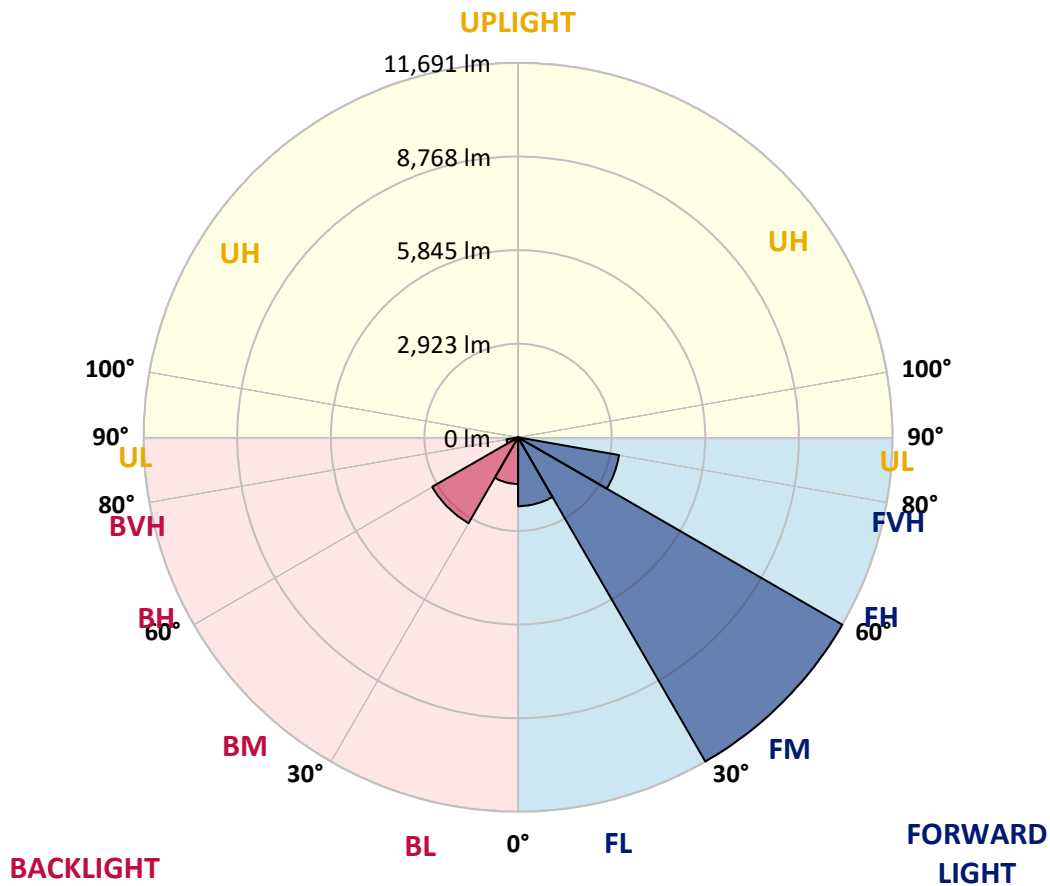
CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.6	9.8			
FM (30°-60°)	11690.9	53.2			
FH (60°-80°)	3203.9	14.6			G2/5000
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	1455.2	6.6	B3/2500		
BM (30°-60°)	3094.1	14.1	B3/5000		
BH (60°-80°)	368.6	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°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	4181.7	4208.3	4252.6	4347.0	4426.7	4479.8	4503.4	4497.5	4465.1	4441.4	4394.2
5°	4630.3	4630.3	4715.9	4931.3	5096.6	5199.9	5253.0	5220.5	5155.6	5052.3	4893.0
7.5°	5022.8	5037.6	5182.2	5489.1	5739.9	5887.5	5973.1	5955.4	5840.3	5642.6	5323.8
10°	5329.7	5347.4	5539.3	5914.1	6209.2	6359.7	6486.6	6498.4	6371.5	6108.8	5742.9
12.5°	5627.8	5645.5	5846.2	6206.2	6465.9	6527.9	6640.0	6684.3	6651.8	6465.9	6085.2
15°	5949.5	5990.8	6162.0	6430.5	6539.7	6465.9	6539.7	6619.4	6728.6	6710.9	6368.5
17.5°	6265.2	6294.8	6468.9	6563.3	6442.3	6250.5	6285.9	6380.3	6628.2	6870.2	6648.9
20°	6557.4	6598.7	6743.3	6619.4	6253.4	5955.4	5958.3	6082.3	6460.0	6967.6	6935.1
22.5°	6864.3	6926.3	7029.6	6681.4	6079.3	5722.2	5737.0	5849.1	6327.2	7059.1	7259.8
25°	7265.7	7324.7	7392.6	6834.8	6023.3	5607.1	5663.2	5766.5	6327.2	7215.5	7661.1
27.5°	7808.7	7850.0	7853.0	7121.1	6120.6	5624.8	5742.9	5860.9	6516.1	7528.3	8198.2
30°	8490.4	8555.3	8469.7	7566.7	6424.6	5860.9	6035.1	6182.6	6923.3	8056.6	8989.1
32.5°	9319.7	9411.1	9296.1	8227.7	7059.1	6675.5	6991.2	7076.8	7572.6	8820.9	9886.3
35°	10293.5	10370.3	10246.3	9142.6	8540.6	8611.4	9183.9	9074.7	8877.0	9762.3	10933.9
37.5°	11361.8	11432.7	11193.6	10529.6	10730.3	11037.2	11952.1	11577.3	10939.8	10975.2	12070.1
40°	12341.6	12418.3	12043.6	12037.6	12450.8	13011.5	14115.2	13598.8	12731.2	12562.9	13135.5
42.5°	13356.8	13409.9	13070.5	12840.4	13778.8	14932.7	16101.4	15404.9	13917.5	13734.5	14469.4
45°	14805.8	14917.9	14313.0	13235.8	14974.0	17143.1	18772.1	17411.7	14726.1	14578.6	16511.6
47.5°	16936.5	17019.2	15785.6	13483.7	16086.6	19896.5	22109.8	20014.5	15437.3	15100.9	19303.3
50°	18698.3	18754.4	17140.1	13755.2	17270.0	22865.3	25913.9	23101.4	16237.1	15965.6	21909.2
52.5°	19996.8	20209.3	18919.7	14313.0	18825.2	26356.5	30125.1	26757.9	17485.4	17635.9	24069.4
55°	20265.4	20554.6	20135.5	14655.3	20194.6	29912.6	34014.7	30030.7	18730.8	18902.0	24795.4
57.5°	17810.1	18040.2	18388.5	13274.2	20162.1	31541.7	36272.3	31116.7	18164.2	16951.3	22077.4
60°	13342.0	13501.4	14132.9	10146.0	18541.9	30101.5	34513.4	29269.3	15883.0	12934.8	16821.4
62.5°	7912.0	7982.8	8782.6	6572.2	15390.1	25922.7	28623.0	25255.7	12551.1	8699.9	10302.4
65°	3036.7	3007.2	3618.1	3243.3	11317.6	20649.0	21289.4	19253.2	8611.4	3987.0	3928.0
67.5°	469.2	448.6	605.0	959.1	8162.8	14310.0	14047.4	13876.2	5394.7	929.6	811.6
70°	106.2	106.2	129.8	283.3	4987.4	8407.8	8998.0	8578.9	3452.8	197.7	106.2
72.5°	50.2	50.2	62.0	121.0	1806.1	3464.6	4037.1	3975.2	1121.4	64.9	38.4
75°	17.7	20.7	20.7	26.6	109.2	180.0	413.2	295.1	70.8	0.0	0.0
77.5°	5.9	5.9	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	4290.9	4270.3	4193.6	4090.3	3989.9	3901.4	3809.9	3700.7	3621.0	3529.5	3500.0
5°	4769.0	4639.2	4429.6	4211.3	4010.6	3839.4	3674.2	3497.1	3367.2	3237.4	3193.1
7.5°	5173.3	4981.5	4642.1	4314.5	4040.1	3798.1	3559.1	3317.1	3128.2	2974.7	2927.5
10°	5536.3	5315.0	4860.5	4456.2	4110.9	3830.6	3541.4	3237.4	2992.4	2809.5	2765.2
12.5°	5849.1	5592.4	5046.4	4562.4	4140.4	3818.8	3538.4	3296.4	3075.1	2865.5	2809.5
15°	6111.8	5828.5	5202.8	4633.3	4096.2	3671.2	3426.3	3387.9	3370.2	3140.0	3030.8
17.5°	6368.5	6049.8	5329.7	4665.7	3972.2	3411.5	3234.4	3408.6	3594.5	3444.0	3305.3
20°	6637.1	6274.1	5459.6	4671.6	3765.6	3119.3	3089.8	3364.3	3600.4	3553.2	3423.3
22.5°	6952.9	6554.5	5621.9	4668.7	3505.9	2871.4	2983.6	3278.7	3470.5	3467.6	3364.3
25°	7410.3	6908.6	5840.3	4686.4	3222.6	2679.6	2865.5	3134.1	3290.5	3284.6	3199.0
27.5°	7900.2	7330.6	6123.6	4730.7	2980.6	2567.5	2726.8	2936.4	3072.1	3066.2	2992.4
30°	8587.8	7817.5	6395.1	4733.6	2806.5	2508.5	2573.4	2718.0	2847.8	2833.1	2777.0
32.5°	9423.0	8366.4	6622.3	4565.4	2697.3	2452.4	2414.0	2487.8	2588.1	2567.5	2552.7
35°	10432.2	9018.6	6817.1	4196.5	2529.1	2340.2	2237.0	2251.7	2322.5	2334.3	2328.4
37.5°	11583.2	9794.8	7059.1	3709.6	2301.9	2177.9	2039.2	2027.4	2068.7	2107.1	2136.6
40°	12719.4	10668.3	7386.7	3216.7	2095.3	1971.4	1838.6	1809.0	1826.7	1894.6	1956.6
42.5°	13997.2	11680.6	7740.8	2794.7	1953.6	1744.1	1617.2	1561.1	1611.3	1720.5	1794.3
45°	15838.7	13100.1	8086.1	2458.3	1894.6	1543.4	1372.3	1366.4	1422.4	1564.1	1646.7
47.5°	18423.9	14935.7	8313.3	2195.6	1891.7	1387.0	1183.4	1218.8	1283.7	1422.4	1516.9
50°	20944.2	17234.6	8062.5	1995.0	1829.7	1283.7	1041.7	1112.6	1177.5	1298.5	1395.9
52.5°	22464.0	18471.1	7085.7	1806.1	1637.9	1236.5	903.0	1027.0	1038.8	1148.0	1251.3
55°	22304.6	17671.4	5427.1	1513.9	1354.6	1168.6	758.4	926.7	932.6	1015.2	1103.7
57.5°	19359.4	15171.7	3727.3	1227.7	1018.1	965.0	625.6	782.0	838.1	888.3	953.2
60°	14428.1	11069.7	1661.5	997.5	646.3	652.2	534.2	590.2	675.8	734.8	790.9
62.5°	8502.2	6368.5	675.8	599.1	357.1	410.2	430.9	430.9	484.0	528.3	563.7
65°	3213.8	2228.1	274.5	301.0	185.9	191.8	253.8	312.8	354.1	392.5	439.7
67.5°	563.7	389.5	141.7	112.1	109.2	97.4	129.8	203.6	227.2	256.7	277.4
70°	94.4	79.7	59.0	56.1	50.2	53.1	85.6	144.6	159.4	168.2	177.1
72.5°	26.6	23.6	17.7	14.8	11.8	14.8	53.1	112.1	118.0	123.9	132.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	20.7	79.7	85.6	88.5	97.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	23.6	29.5	23.6
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°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3482.3	3423.3	3390.8	3373.1	3373.1	3349.5	3323.0	3314.1	3352.5	3352.5	3417.4
5°	3137.0	3089.8	3036.7	3004.2	2954.1	2962.9	2933.4	2930.5	2968.8	2986.5	3054.4
7.5°	2898.0	2839.0	2806.5	2785.9	2759.3	2747.5	2720.9	2712.1	2732.7	2762.3	2827.2
10°	2738.6	2729.8	2726.8	2741.6	2741.6	2726.8	2703.2	2688.5	2694.4	2750.5	2824.2
12.5°	2780.0	2797.7	2803.6	2827.2	2839.0	2827.2	2809.5	2815.4	2853.7	2957.0	3066.2
15°	2960.0	2945.2	2939.3	2951.1	2960.0	2948.2	2942.3	2986.5	3119.3	3266.9	3390.8
17.5°	3151.8	3057.4	3016.1	3016.1	3022.0	3016.1	3022.0	3107.5	3323.0	3470.5	3562.0
20°	3249.2	3075.1	3010.2	2995.4	3007.2	3010.2	3030.8	3128.2	3364.3	3467.6	3488.2
22.5°	3219.7	3001.3	2927.5	2915.7	2927.5	2939.3	2960.0	3042.6	3263.9	3317.1	3308.2
25°	3072.1	2856.7	2797.7	2797.7	2824.2	2821.3	2830.1	2889.2	3072.1	3104.6	3089.8
27.5°	2886.2	2682.6	2632.4	2661.9	2685.5	2679.6	2682.6	2732.7	2868.5	2877.3	2862.6
30°	2697.3	2520.3	2473.0	2508.5	2540.9	2535.0	2538.0	2588.1	2673.7	2664.9	2644.2
32.5°	2505.5	2375.7	2340.2	2360.9	2411.1	2405.2	2417.0	2470.1	2502.6	2464.2	2440.6
35°	2328.4	2260.6	2234.0	2245.8	2284.2	2293.0	2313.7	2349.1	2349.1	2301.9	2260.6
37.5°	2163.2	2154.3	2136.6	2121.9	2157.3	2183.8	2213.3	2254.7	2195.6	2127.8	2089.4
40°	2009.7	2048.1	2024.5	1986.1	2006.8	2045.1	2104.2	2136.6	2065.8	1997.9	1933.0
42.5°	1868.1	1933.0	1924.1	1876.9	1894.6	1930.0	1997.9	2024.5	1941.8	1865.1	1803.1
45°	1732.3	1823.8	1829.7	1770.7	1788.4	1823.8	1903.5	1912.3	1806.1	1723.5	1679.2
47.5°	1614.3	1714.6	1717.6	1673.3	1679.2	1729.4	1803.1	1806.1	1685.1	1608.4	1552.3
50°	1502.1	1617.2	1626.1	1587.7	1593.6	1652.6	1714.6	1702.8	1573.0	1493.3	1443.1
52.5°	1366.4	1522.8	1543.4	1525.7	1549.3	1596.6	1634.9	1593.6	1443.1	1363.4	1319.2
55°	1218.8	1422.4	1466.7	1454.9	1481.5	1519.8	1528.7	1502.1	1313.3	1233.6	1192.3
57.5°	1047.7	1171.6	1248.3	1224.7	1245.4	1283.7	1310.3	1289.6	1148.0	1086.0	1050.6
60°	867.6	950.3	968.0	929.6	911.9	979.8	1041.7	1015.2	894.2	855.8	814.5
62.5°	634.5	728.9	740.7	690.6	669.9	743.7	796.8	770.2	637.4	596.1	563.7
65°	507.6	596.1	619.7	572.5	560.7	616.8	649.2	584.3	489.9	445.6	410.2
67.5°	333.5	404.3	466.3	463.3	439.7	457.4	433.8	380.7	312.8	289.2	265.6
70°	206.6	247.9	286.3	301.0	298.1	292.2	259.7	221.3	200.7	191.8	180.0
72.5°	159.4	200.7	230.2	239.0	242.0	233.1	206.6	171.2	150.5	138.7	129.8
75°	118.0	150.5	174.1	185.9	191.8	185.9	159.4	135.8	115.1	106.2	97.4
77.5°	41.3	50.2	62.0	67.9	64.9	62.0	56.1	56.1	44.3	41.3	35.4
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°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3491.2	3544.3	3641.7	3730.2	3824.7	3922.0	4028.3	4137.5	4187.6	4181.7
5°	3157.7	3272.8	3432.2	3606.3	3801.1	4010.6	4243.7	4482.8	4586.1	4630.3
7.5°	2948.2	3110.5	3320.0	3541.4	3798.1	4096.2	4447.3	4822.1	4972.6	5022.8
10°	2974.7	3163.6	3337.7	3553.2	3827.6	4214.2	4651.0	5096.6	5273.7	5329.7
12.5°	3190.2	3231.5	3278.7	3455.8	3801.1	4302.7	4836.9	5368.1	5571.7	5627.8
15°	3384.9	3193.1	3104.6	3266.9	3706.6	4364.7	5025.8	5660.3	5884.5	5949.5
17.5°	3393.8	3104.6	2906.9	3033.8	3553.2	4391.3	5211.7	5958.3	6203.3	6265.2
20°	3284.6	3007.2	2753.4	2756.4	3343.6	4385.4	5365.1	6226.9	6501.3	6557.4
22.5°	3125.2	2892.1	2629.5	2538.0	3119.3	4373.6	5533.4	6513.1	6811.2	6864.3
25°	2948.2	2744.5	2511.4	2372.7	2895.1	4385.4	5769.5	6887.9	7215.5	7265.7
27.5°	2756.4	2582.2	2419.9	2307.8	2706.2	4429.6	6052.8	7366.0	7755.6	7808.7
30°	2555.7	2425.8	2360.9	2293.0	2588.1	4441.4	6359.7	7923.8	8416.6	8490.4
32.5°	2358.0	2287.1	2290.1	2301.9	2476.0	4358.8	6640.0	8543.5	9201.6	9319.7
35°	2175.0	2154.3	2213.3	2272.4	2313.7	4146.3	6885.0	9275.4	10172.5	10293.5
37.5°	2018.6	2036.3	2110.1	2169.1	2136.6	3845.3	7209.6	10190.2	11258.6	11361.8
40°	1868.1	1912.3	1997.9	2024.5	2000.9	3494.1	7599.2	11072.6	12200.0	12341.6
42.5°	1729.4	1761.8	1882.8	1888.7	1962.5	3137.0	7973.9	12022.9	13283.0	13356.8
45°	1617.2	1611.3	1735.3	1773.6	2012.7	2741.6	8339.9	13288.9	14699.6	14805.8
47.5°	1508.0	1502.1	1531.6	1705.8	2033.3	2375.7	8702.9	15142.2	16753.6	16936.5
50°	1404.7	1413.6	1322.1	1673.3	1921.2	2095.3	8868.1	16856.8	18621.6	18698.3
52.5°	1313.3	1280.8	1121.4	1567.0	1682.1	1829.7	8398.9	17635.9	19778.5	19996.8
55°	1183.4	1003.4	923.7	1271.9	1328.0	1596.6	6879.1	17184.4	19878.8	20265.4
57.5°	1012.2	788.0	785.0	938.5	938.5	1481.5	4406.0	14681.9	17131.3	17810.1
60°	779.1	610.9	649.2	652.2	602.0	1080.1	2473.0	10635.9	12666.2	13342.0
62.5°	554.8	466.3	489.9	389.5	345.3	540.1	1186.4	6123.6	7817.5	7912.0
65°	371.8	315.8	256.7	215.4	212.5	230.2	489.9	2213.3	2691.4	3036.7
67.5°	244.9	191.8	135.8	135.8	153.5	153.5	185.9	365.9	513.5	469.2
70°	159.4	132.8	85.6	82.6	100.3	100.3	94.4	100.3	106.2	106.2
72.5°	118.0	100.3	50.2	44.3	56.1	59.0	53.1	50.2	50.2	50.2
75°	88.5	70.8	29.5	20.7	26.6	35.4	29.5	20.7	20.7	17.7
77.5°	35.4	26.6	11.8	8.9	14.8	20.7	17.7	8.9	5.9	5.9
80°	3.0	5.9	5.9	5.9	8.9	11.8	14.8	5.9	3.0	3.0
82.5°	0.0	3.0	3.0	3.0	5.9	8.9	11.8	5.9	3.0	3.0
85°	0.0	0.0	0.0	0.0	5.9	8.9	5.9	3.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	3.0	8.9	5.9	3.0	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

(END OF REPORT)