

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: P641233

Luminaire Tested: GWS-SA5F-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641233
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22267.2 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

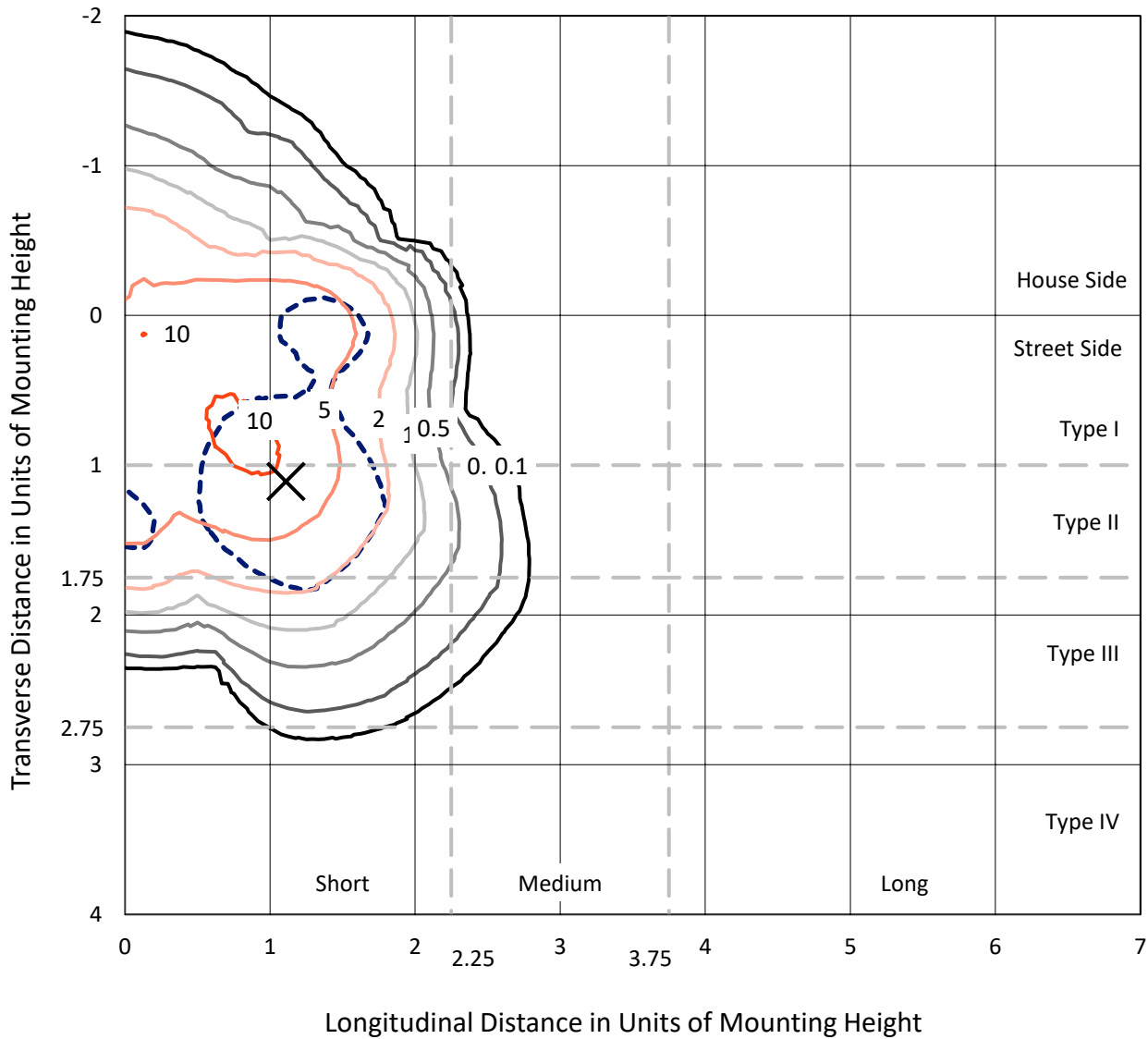
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

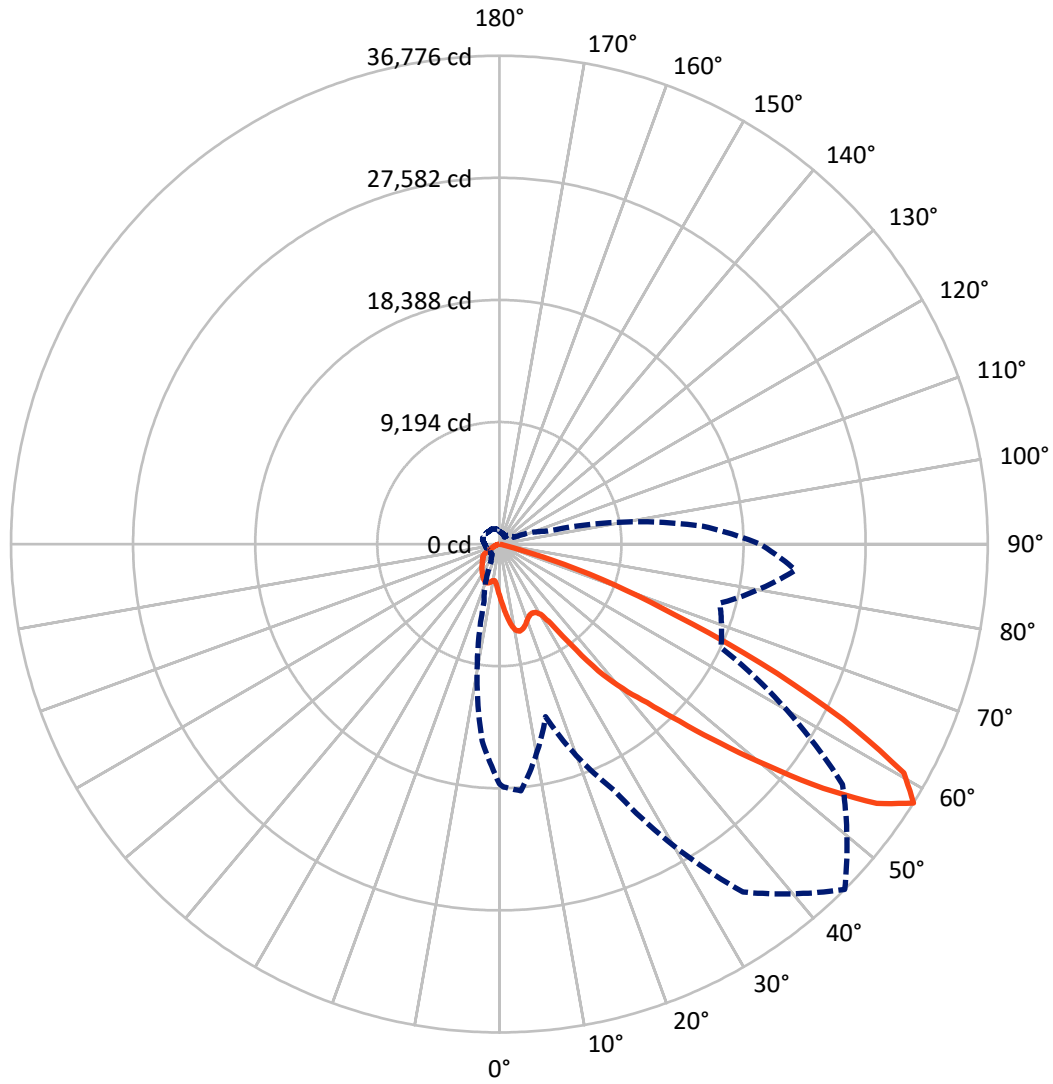
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	4986.2	0.0	4986.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17281.0	0.0	17281.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	22267.2	0.0	22267.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.0	1.7
10°-20°	1245.5	5.6
20°-30°	2023.3	9.1
30°-40°	3126.2	14.0
40°-50°	5012.9	22.5
50°-60°	6851.3	30.8
60°-70°	3318.3	14.9
70°-80°	303.8	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°	22267.2	100.0
0°-180°	22267.2	100.0

Coefficient of Utilization



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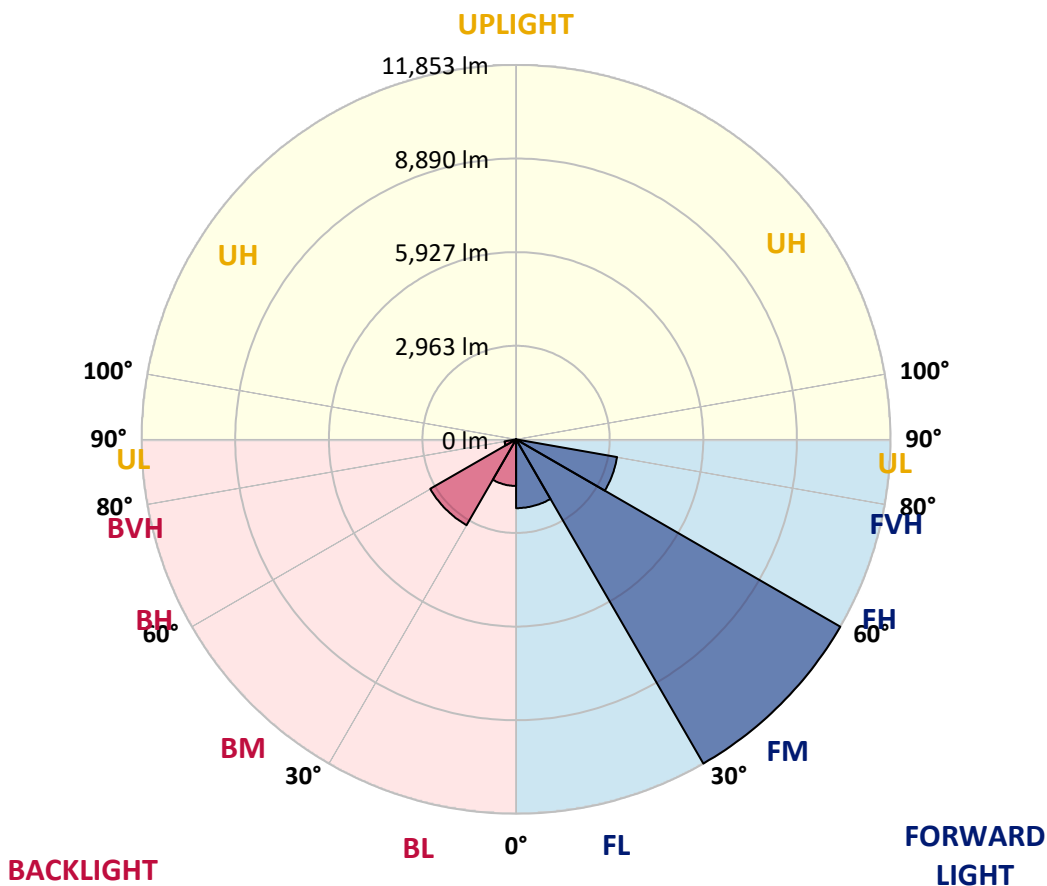
CATALOG NUMBER: GWS-SA5F-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.4	9.8			
FM (30°-60°)	11853.3	53.2			
FH (60°-80°)	3248.4	14.6			G2/5000
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	1475.4	6.6	B3/2500		
BM (30°-60°)	3137.1	14.1	B3/5000		
BH (60°-80°)	373.7	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°	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7
2.5°	4239.8	4266.8	4311.7	4407.4	4488.2	4542.0	4566.0	4560.0	4527.1	4503.1	4455.3
5°	4694.6	4694.6	4781.4	4999.8	5167.4	5272.1	5326.0	5293.1	5227.2	5122.5	4960.9
7.5°	5092.6	5107.6	5254.2	5565.4	5819.7	5969.3	6056.1	6038.1	5921.4	5720.9	5397.8
10°	5403.8	5421.7	5616.2	5996.2	6295.4	6448.0	6576.7	6588.7	6460.0	6193.7	5822.7
12.5°	5706.0	5723.9	5927.4	6292.4	6555.7	6618.6	6732.3	6777.2	6744.2	6555.7	6169.8
15°	6032.1	6074.0	6247.6	6519.8	6630.5	6555.7	6630.5	6711.3	6822.0	6804.1	6457.0
17.5°	6352.3	6382.2	6558.7	6654.5	6531.8	6337.3	6373.2	6469.0	6720.3	6965.7	6741.3
20°	6648.5	6690.4	6837.0	6711.3	6340.3	6038.1	6041.1	6166.8	6549.8	7064.4	7031.5
22.5°	6959.7	7022.5	7127.2	6774.2	6163.8	5801.7	5816.7	5930.4	6415.1	7157.2	7360.6
25°	7366.6	7426.5	7495.3	6929.8	6106.9	5685.0	5741.9	5846.6	6415.1	7315.7	7767.6
27.5°	7917.2	7959.1	7962.0	7220.0	6205.7	5703.0	5822.7	5942.4	6606.6	7632.9	8312.1
30°	8608.3	8674.2	8587.4	7671.8	6513.9	5942.4	6118.9	6268.5	7019.5	8168.5	9114.0
32.5°	9449.1	9541.9	9425.2	8342.0	7157.2	6768.2	7088.3	7175.1	7677.8	8943.5	10023.6
35°	10436.5	10514.3	10388.7	9269.6	8659.2	8731.0	9311.5	9200.8	9000.3	9897.9	11085.8
37.5°	11519.7	11591.5	11349.1	10675.9	10879.4	11190.5	12118.1	11738.1	11091.8	11127.7	12237.8
40°	12513.1	12590.9	12210.9	12204.9	12623.8	13192.3	14311.3	13787.7	12908.0	12737.5	13317.9
42.5°	13542.4	13596.2	13252.1	13018.7	13970.2	15140.2	16325.0	15618.9	14110.9	13925.3	14670.4
45°	15011.5	15125.2	14511.8	13419.7	15182.0	17381.3	19032.9	17653.5	14930.7	14781.1	16740.9
47.5°	17171.8	17255.6	16004.9	13671.0	16310.1	20172.9	22417.0	20292.6	15651.8	15310.7	19571.5
50°	18958.1	19015.0	17378.3	13946.3	17509.9	23183.0	26273.8	23422.4	16462.7	16187.4	22213.5
52.5°	20274.6	20490.1	19182.5	14511.8	19086.8	26722.7	30543.6	27129.6	17728.3	17880.9	24403.8
55°	20546.9	20840.2	20415.3	14858.9	20475.1	30328.2	34487.2	30447.9	18991.0	19164.6	25139.8
57.5°	18057.5	18290.9	18643.9	13458.6	20442.2	31979.8	36776.2	31549.0	18416.5	17186.8	22384.1
60°	13527.4	13689.0	14329.3	10286.9	18799.5	30519.7	34992.9	29675.9	16103.6	13114.5	17055.1
62.5°	8021.9	8093.7	8904.6	6663.5	15603.9	26282.8	29020.6	25606.6	12725.5	8820.8	10445.5
65°	3078.9	3049.0	3668.3	3288.3	11474.8	20935.9	21585.2	19520.6	8731.0	4042.4	3982.5
67.5°	475.7	454.8	613.4	972.4	8276.2	14508.8	14242.5	14069.0	5469.6	942.5	822.8
70°	107.7	107.7	131.7	287.2	5056.7	8524.6	9123.0	8698.1	3500.8	200.5	107.7
72.5°	50.9	50.9	62.8	122.7	1831.2	3512.8	4093.2	4030.4	1137.0	65.8	38.9
75°	18.0	20.9	20.9	26.9	110.7	182.5	418.9	299.2	71.8	0.0	0.0
77.5°	6.0	6.0	6.0	6.0	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°	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7
2.5°	4350.5	4329.6	4251.8	4147.1	4045.4	3955.6	3862.8	3752.1	3671.3	3578.6	3548.7
5°	4835.3	4703.6	4491.2	4269.8	4066.3	3892.8	3725.2	3545.7	3414.0	3282.4	3237.5
7.5°	5245.2	5050.7	4706.6	4374.5	4096.2	3850.9	3608.5	3363.1	3171.7	3016.1	2968.2
10°	5613.2	5388.8	4928.0	4518.1	4168.0	3883.8	3590.5	3282.4	3034.0	2848.5	2803.6
12.5°	5930.4	5670.1	5116.5	4625.8	4198.0	3871.8	3587.6	3342.2	3117.8	2905.4	2848.5
15°	6196.7	5909.4	5275.1	4697.6	4153.1	3722.2	3473.9	3435.0	3417.0	3183.6	3072.9
17.5°	6457.0	6133.9	5403.8	4730.5	4027.4	3458.9	3279.4	3455.9	3644.4	3491.8	3351.2
20°	6729.3	6361.3	5535.4	4736.5	3818.0	3162.7	3132.8	3411.0	3650.4	3602.5	3470.9
22.5°	7049.4	6645.5	5700.0	4733.5	3554.6	2911.3	3025.0	3324.3	3518.7	3515.7	3411.0
25°	7513.2	7004.6	5921.4	4751.5	3267.4	2716.8	2905.4	3177.6	3336.2	3330.2	3243.5
27.5°	8009.9	7432.4	6208.7	4796.4	3022.0	2603.1	2764.7	2977.2	3114.8	3108.8	3034.0
30°	8707.1	7926.1	6483.9	4799.4	2845.5	2543.3	2609.1	2755.7	2887.4	2872.4	2815.6
32.5°	9553.9	8482.7	6714.3	4628.8	2734.8	2486.5	2447.6	2522.4	2624.1	2603.1	2588.2
35°	10577.2	9143.9	6911.8	4254.8	2564.3	2372.8	2268.0	2283.0	2354.8	2366.8	2360.8
37.5°	11744.1	9930.9	7157.2	3761.1	2333.9	2208.2	2067.6	2055.6	2097.5	2136.4	2166.3
40°	12896.1	10816.5	7489.3	3261.4	2124.4	1998.7	1864.1	1834.2	1852.1	1920.9	1983.8
42.5°	14191.6	11842.8	7848.3	2833.5	1980.8	1768.3	1639.7	1582.8	1633.7	1744.4	1819.2
45°	16058.7	13282.0	8198.4	2492.4	1920.9	1564.9	1391.3	1385.4	1442.2	1585.8	1669.6
47.5°	18679.8	15143.1	8428.8	2226.1	1918.0	1406.3	1199.8	1235.7	1301.6	1442.2	1538.0
50°	21235.1	17474.0	8174.5	2022.7	1855.1	1301.6	1056.2	1128.0	1193.9	1316.5	1415.3
52.5°	22776.1	18727.7	7184.1	1831.2	1660.6	1253.7	915.6	1041.3	1053.2	1163.9	1268.7
55°	22614.5	17916.8	5502.5	1535.0	1373.4	1184.9	769.0	939.5	945.5	1029.3	1119.1
57.5°	19628.3	15382.5	3779.1	1244.7	1032.3	978.4	634.3	792.9	849.8	900.6	966.5
60°	14628.5	11223.5	1684.6	1011.3	655.3	661.3	541.6	598.4	685.2	745.0	801.9
62.5°	8620.3	6457.0	685.2	607.4	362.0	415.9	436.9	436.9	490.7	535.6	571.5
65°	3258.4	2259.1	278.3	305.2	188.5	194.5	257.3	317.2	359.1	398.0	445.8
67.5°	571.5	395.0	143.6	113.7	110.7	98.7	131.7	206.5	230.4	260.3	281.3
70°	95.7	80.8	59.8	56.9	50.9	53.9	86.8	146.6	161.6	170.6	179.5
72.5°	26.9	23.9	18.0	15.0	12.0	15.0	53.9	113.7	119.7	125.7	134.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	20.9	80.8	86.8	89.8	98.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	23.9	29.9	23.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7
2.5°	3530.7	3470.9	3438.0	3420.0	3420.0	3396.1	3369.1	3360.2	3399.1	3399.1	3464.9
5°	3180.6	3132.8	3078.9	3046.0	2995.1	3004.1	2974.2	2971.2	3010.1	3028.0	3096.8
7.5°	2938.3	2878.4	2845.5	2824.6	2797.6	2785.7	2758.7	2749.8	2770.7	2800.6	2866.5
10°	2776.7	2767.7	2764.7	2779.7	2779.7	2764.7	2740.8	2725.8	2731.8	2788.7	2863.5
12.5°	2818.6	2836.5	2842.5	2866.5	2878.4	2866.5	2848.5	2854.5	2893.4	2998.1	3108.8
15°	3001.1	2986.1	2980.2	2992.1	3001.1	2989.1	2983.1	3028.0	3162.7	3312.3	3438.0
17.5°	3195.6	3099.8	3058.0	3058.0	3063.9	3058.0	3063.9	3150.7	3369.1	3518.7	3611.5
20°	3294.3	3117.8	3052.0	3037.0	3049.0	3052.0	3072.9	3171.7	3411.0	3515.7	3536.7
22.5°	3264.4	3043.0	2968.2	2956.2	2968.2	2980.2	3001.1	3084.9	3309.3	3363.1	3354.2
25°	3114.8	2896.4	2836.5	2836.5	2863.5	2860.5	2869.4	2929.3	3114.8	3147.7	3132.8
27.5°	2926.3	2719.8	2669.0	2698.9	2722.8	2716.8	2719.8	2770.7	2908.3	2917.3	2902.4
30°	2734.8	2555.3	2507.4	2543.3	2576.2	2570.2	2573.2	2624.1	2710.9	2701.9	2680.9
32.5°	2540.3	2408.7	2372.8	2393.7	2444.6	2438.6	2450.6	2504.4	2537.3	2498.4	2474.5
35°	2360.8	2292.0	2265.0	2277.0	2315.9	2324.9	2345.8	2381.7	2381.7	2333.9	2292.0
37.5°	2193.2	2184.3	2166.3	2151.3	2187.2	2214.2	2244.1	2286.0	2226.1	2157.3	2118.4
40°	2037.6	2076.5	2052.6	2013.7	2034.6	2073.5	2133.4	2166.3	2094.5	2025.7	1959.8
42.5°	1894.0	1959.8	1950.9	1903.0	1920.9	1956.8	2025.7	2052.6	1968.8	1891.0	1828.2
45°	1756.4	1849.1	1855.1	1795.3	1813.2	1849.1	1929.9	1938.9	1831.2	1747.4	1702.5
47.5°	1636.7	1738.4	1741.4	1696.5	1702.5	1753.4	1828.2	1831.2	1708.5	1630.7	1573.9
50°	1523.0	1639.7	1648.7	1609.8	1615.7	1675.6	1738.4	1726.5	1594.8	1514.0	1463.1
52.5°	1385.4	1543.9	1564.9	1546.9	1570.9	1618.7	1657.6	1615.7	1463.1	1382.4	1337.5
55°	1235.7	1442.2	1487.1	1475.1	1502.0	1540.9	1549.9	1523.0	1331.5	1250.7	1208.8
57.5°	1062.2	1187.9	1265.7	1241.7	1262.7	1301.6	1328.5	1307.6	1163.9	1101.1	1065.2
60°	879.7	963.5	981.4	942.5	924.6	993.4	1056.2	1029.3	906.6	867.7	825.8
62.5°	643.3	739.1	751.0	700.2	679.2	754.0	807.9	780.9	646.3	604.4	571.5
65°	514.6	604.4	628.3	580.5	568.5	625.4	658.3	592.4	496.7	451.8	415.9
67.5°	338.1	409.9	472.8	469.8	445.8	463.8	439.8	386.0	317.2	293.2	269.3
70°	209.4	251.3	290.2	305.2	302.2	296.2	263.3	224.4	203.5	194.5	182.5
72.5°	161.6	203.5	233.4	242.4	245.4	236.4	209.4	173.5	152.6	140.6	131.7
75°	119.7	152.6	176.5	188.5	194.5	188.5	161.6	137.6	116.7	107.7	98.7
77.5°	41.9	50.9	62.8	68.8	65.8	62.8	56.9	56.9	44.9	41.9	35.9
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°	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7	3913.7
2.5°	3539.7	3593.5	3692.3	3782.0	3877.8	3976.5	4084.3	4195.0	4245.8	4239.8
5°	3201.6	3318.3	3479.8	3656.4	3853.9	4066.3	4302.7	4545.0	4649.8	4694.6
7.5°	2989.1	3153.7	3366.1	3590.5	3850.9	4153.1	4509.1	4889.1	5041.7	5092.6
10°	3016.1	3207.6	3384.1	3602.5	3880.8	4272.8	4715.6	5167.4	5346.9	5403.8
12.5°	3234.5	3276.4	3324.3	3503.8	3853.9	4362.5	4904.1	5442.7	5649.1	5706.0
15°	3432.0	3237.5	3147.7	3312.3	3758.1	4425.4	5095.6	5738.9	5966.3	6032.1
17.5°	3440.9	3147.7	2947.2	3075.9	3602.5	4452.3	5284.1	6041.1	6289.4	6352.3
20°	3330.2	3049.0	2791.7	2794.6	3390.1	4446.3	5439.7	6313.4	6591.7	6648.5
22.5°	3168.7	2932.3	2666.0	2573.2	3162.7	4434.3	5610.2	6603.6	6905.8	6959.7
25°	2989.1	2782.7	2546.3	2405.7	2935.3	4446.3	5849.6	6983.6	7315.7	7366.6
27.5°	2794.6	2618.1	2453.5	2339.8	2743.8	4491.2	6136.8	7468.3	7863.3	7917.2
30°	2591.2	2459.5	2393.7	2324.9	2624.1	4503.1	6448.0	8033.9	8533.5	8608.3
32.5°	2390.7	2318.9	2321.9	2333.9	2510.4	4419.4	6732.3	8662.2	9329.4	9449.1
35°	2205.2	2184.3	2244.1	2303.9	2345.8	4203.9	6980.6	9404.2	10313.9	10436.5
37.5°	2046.6	2064.6	2139.4	2199.2	2166.3	3898.7	7309.8	10331.8	11415.0	11519.7
40°	1894.0	1938.9	2025.7	2052.6	2028.7	3542.7	7704.7	11226.5	12369.4	12513.1
42.5°	1753.4	1786.3	1909.0	1915.0	1989.8	3180.6	8084.7	12189.9	13467.6	13542.4
45°	1639.7	1633.7	1759.4	1798.3	2040.6	2779.7	8455.7	13473.5	14903.8	15011.5
47.5°	1529.0	1523.0	1552.9	1729.4	2061.6	2408.7	8823.8	15352.6	16986.3	17171.8
50°	1424.3	1433.2	1340.5	1696.5	1947.9	2124.4	8991.3	17091.0	18880.3	18958.1
52.5°	1331.5	1298.6	1137.0	1588.8	1705.5	1855.1	8515.6	17880.9	20053.2	20274.6
55°	1199.8	1017.3	936.5	1289.6	1346.5	1618.7	6974.6	17423.1	20155.0	20546.9
57.5°	1026.3	798.9	795.9	951.5	951.5	1502.0	4467.2	14885.8	17369.3	18057.5
60°	789.9	619.4	658.3	661.3	610.4	1095.1	2507.4	10783.6	12842.2	13527.4
62.5°	562.5	472.8	496.7	395.0	350.1	547.6	1202.8	6208.7	7926.1	8021.9
65°	377.0	320.2	260.3	218.4	215.4	233.4	496.7	2244.1	2728.8	3078.9
67.5°	248.3	194.5	137.6	137.6	155.6	155.6	188.5	371.0	520.6	475.7
70°	161.6	134.6	86.8	83.8	101.7	101.7	95.7	101.7	107.7	107.7
72.5°	119.7	101.7	50.9	44.9	56.9	59.8	53.9	50.9	50.9	50.9
75°	89.8	71.8	29.9	20.9	26.9	35.9	29.9	20.9	20.9	18.0
77.5°	35.9	26.9	12.0	9.0	15.0	20.9	18.0	9.0	6.0	6.0
80°	3.0	6.0	6.0	6.0	9.0	12.0	15.0	6.0	3.0	3.0
82.5°	0.0	3.0	3.0	3.0	6.0	9.0	12.0	6.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	6.0	9.0	6.0	3.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	3.0	9.0	6.0	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)