

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: P638758

Luminaire Tested: GWS-SA4F-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638758
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18152 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

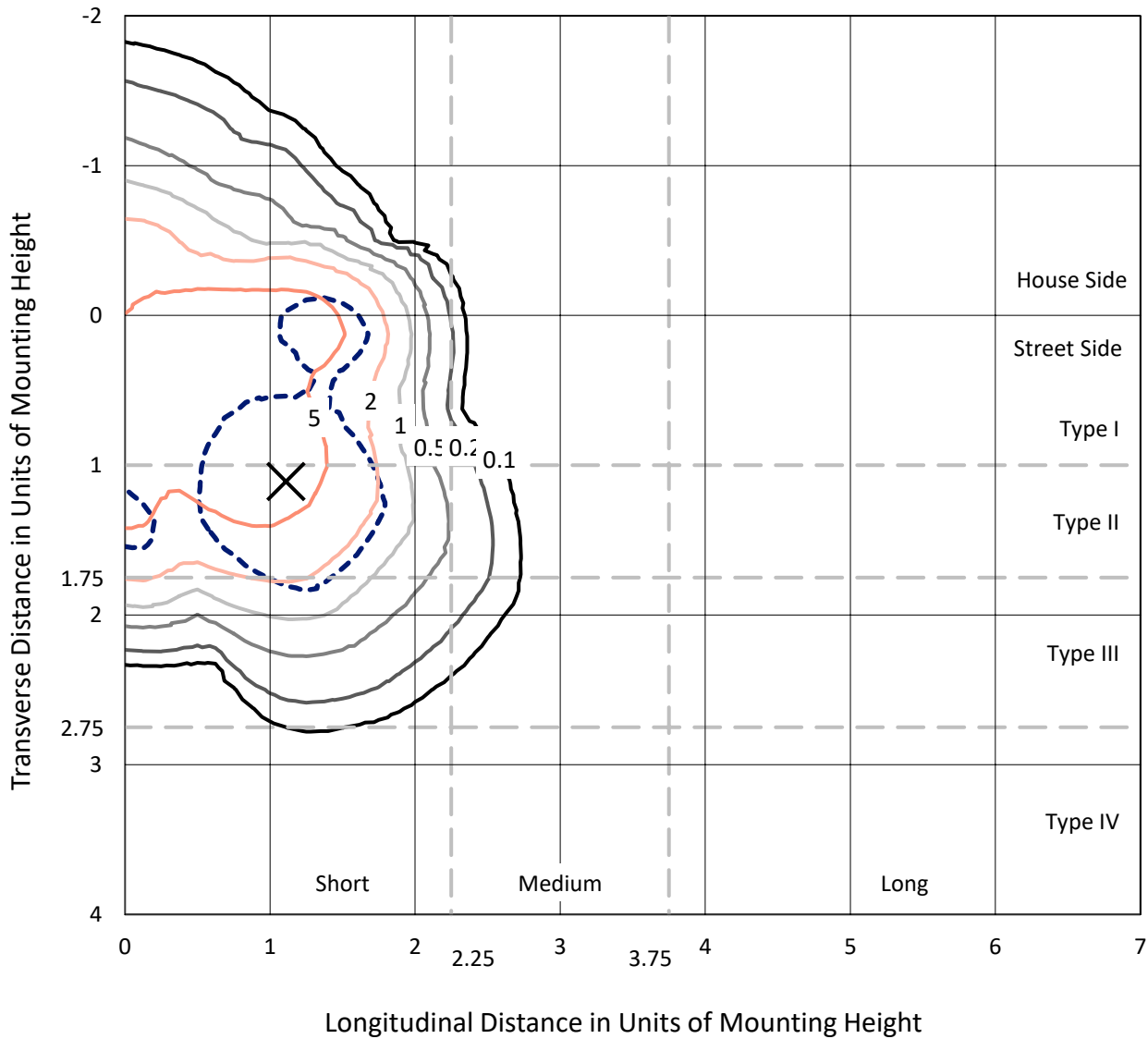
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

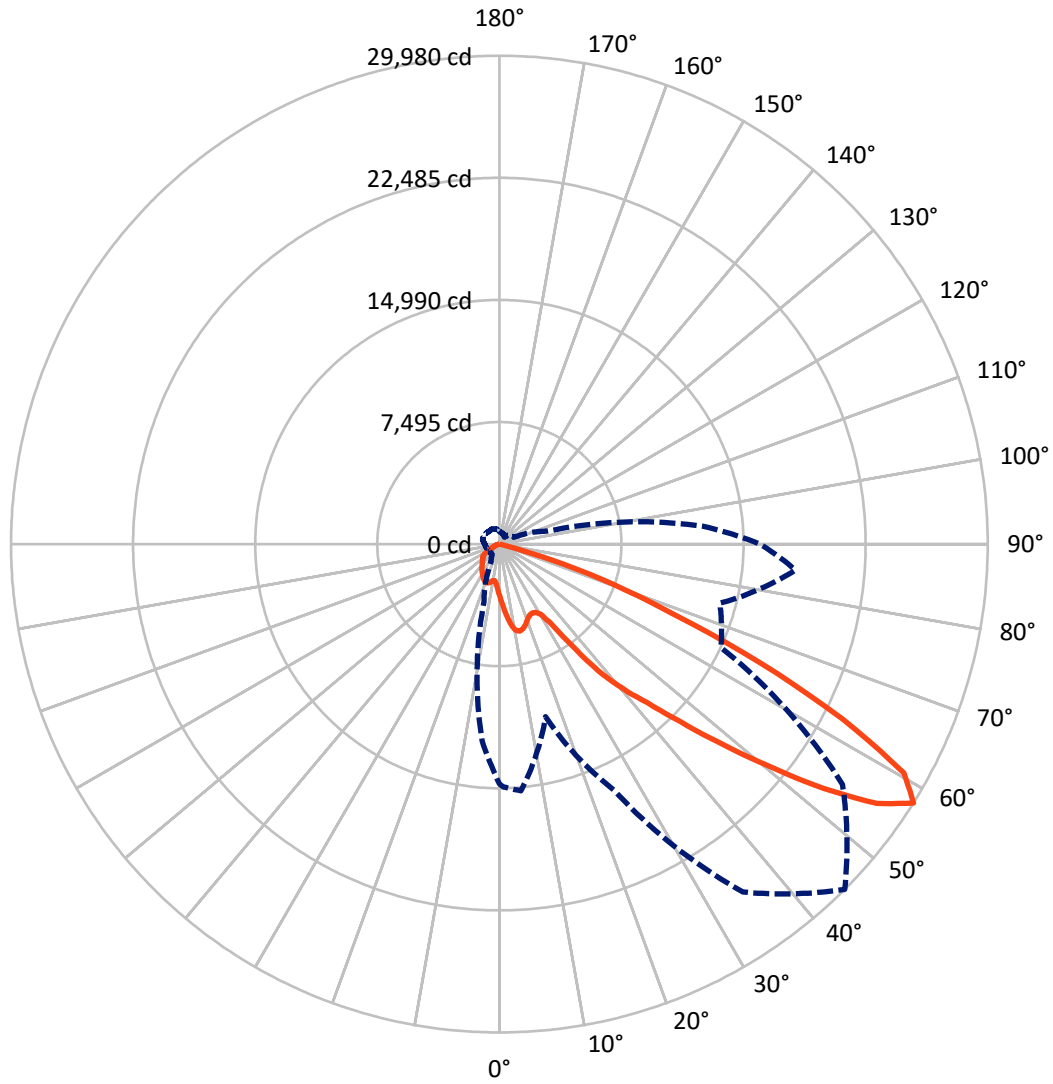
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4064.7	0.0	4064.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14087.3	0.0	14087.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	18152.0	0.0	18152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	1.7
10°-20°	1015.3	5.6
20°-30°	1649.3	9.1
30°-40°	2548.5	14.0
40°-50°	4086.5	22.5
50°-60°	5585.1	30.8
60°-70°	2705.0	14.9
70°-80°	247.7	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°	18152.0	100.0
0°-180°	18152.0	100.0

Coefficient of Utilization



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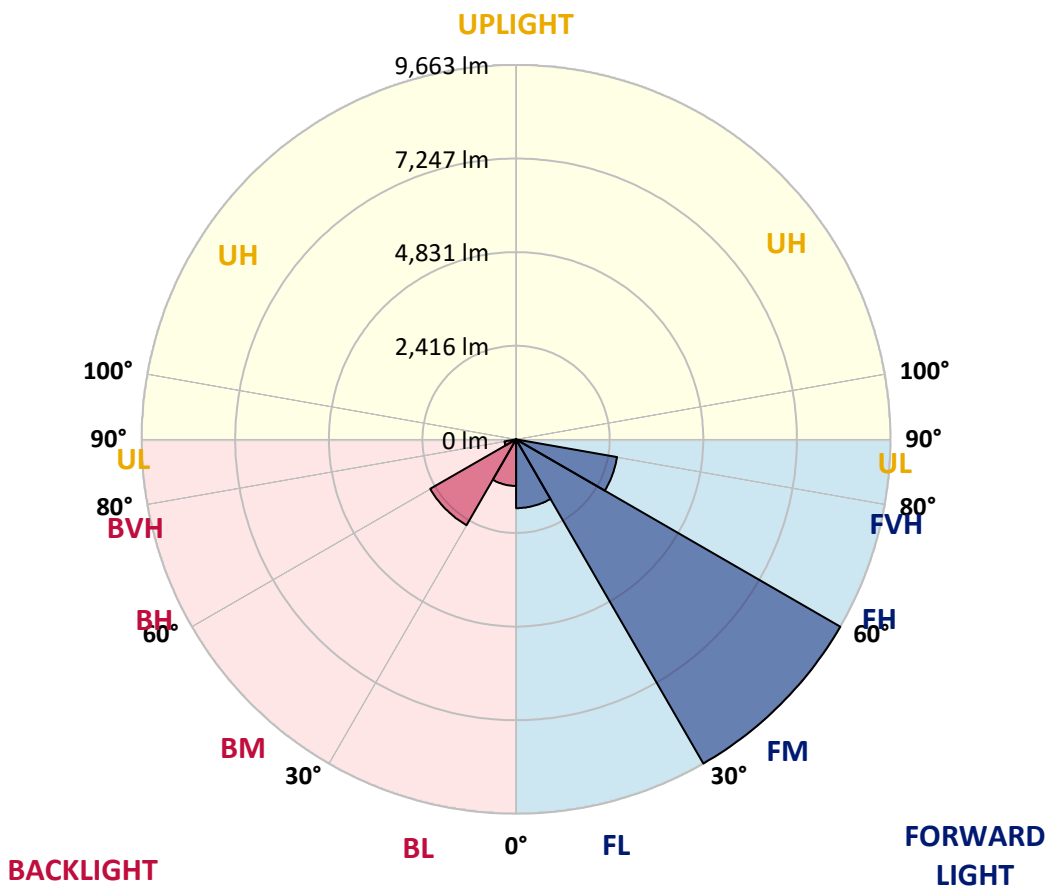
CATALOG NUMBER: GWS-SA4F-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.8	9.8			
FM (30°-60°)	9662.7	53.2			
FH (60°-80°)	2648.0	14.6			G2/5000
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	1202.7	6.6	B3/2500		
BM (30°-60°)	2557.3	14.1	B3/5000		
BH (60°-80°)	304.7	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°	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4
2.5°	3456.3	3478.2	3514.8	3592.9	3658.7	3702.6	3722.1	3717.3	3690.4	3670.9	3631.9
5°	3827.0	3827.0	3897.8	4075.8	4212.4	4297.8	4341.7	4314.9	4261.2	4175.8	4044.1
7.5°	4151.4	4163.6	4283.1	4536.8	4744.1	4866.1	4936.8	4922.2	4827.1	4663.7	4400.2
10°	4405.1	4419.7	4578.3	4888.1	5132.0	5256.4	5361.3	5371.0	5266.1	5049.0	4746.6
12.5°	4651.5	4666.1	4832.0	5129.5	5344.2	5395.4	5488.1	5524.7	5497.8	5344.2	5029.5
15°	4917.3	4951.5	5092.9	5314.9	5405.2	5344.2	5405.2	5471.0	5561.3	5546.6	5263.7
17.5°	5178.3	5202.7	5346.6	5424.7	5324.7	5166.1	5195.4	5273.4	5478.3	5678.3	5495.4
20°	5419.8	5453.9	5573.5	5471.0	5168.6	4922.2	4924.6	5027.1	5339.3	5758.8	5732.0
22.5°	5673.5	5724.7	5810.1	5522.2	5024.7	4729.5	4741.7	4834.4	5229.5	5834.4	6000.3
25°	6005.2	6054.0	6110.1	5649.1	4978.3	4634.4	4680.7	4766.1	5229.5	5963.7	6332.0
27.5°	6454.0	6488.1	6490.6	5885.7	5058.8	4649.0	4746.6	4844.2	5385.6	6222.3	6776.0
30°	7017.4	7071.1	7000.4	6254.0	5310.0	4844.2	4988.1	5110.0	5722.2	6658.9	7429.7
32.5°	7702.8	7778.5	7683.3	6800.4	5834.4	5517.4	5778.3	5849.1	6258.9	7290.6	8171.2
35°	8507.8	8571.2	8468.7	7556.5	7058.9	7117.4	7590.6	7500.4	7337.0	8068.7	9037.1
37.5°	9390.7	9449.3	9251.7	8702.9	8868.8	9122.4	9878.6	9568.8	9041.9	9071.2	9976.1
40°	10200.5	10263.9	9954.2	9949.3	10290.8	10754.2	11666.5	11239.6	10522.5	10383.5	10856.7
42.5°	11039.6	11083.5	10803.0	10612.7	11388.4	12342.1	13308.0	12732.4	11503.0	11351.8	11959.2
45°	12237.2	12329.9	11829.9	10939.6	12376.2	14169.0	15515.4	14391.0	12171.4	12049.4	13647.0
47.5°	13998.3	14066.6	13047.0	11144.5	13295.8	16444.8	18274.1	16542.3	12759.2	12481.1	15954.5
50°	15454.5	15500.8	14166.6	11368.9	14273.9	18898.5	21418.2	19093.7	13420.2	13195.8	18108.3
52.5°	16527.7	16703.3	15637.4	11829.9	15559.3	21784.1	24898.8	22115.8	14452.0	14576.4	19893.7
55°	16749.6	16988.7	16642.3	12112.8	16691.1	24723.2	28113.6	24820.8	15481.3	15622.8	20493.7
57.5°	14720.3	14910.5	15198.3	10971.3	16664.3	26069.6	29979.6	25718.4	15013.0	14010.5	18247.3
60°	11027.4	11159.1	11681.1	8385.8	15325.2	24879.3	28525.9	24191.5	13127.5	10690.8	13903.2
62.5°	6539.4	6597.9	7258.9	5432.0	12720.2	21425.5	23657.3	20874.2	10373.7	7190.6	8515.1
65°	2509.9	2485.5	2990.4	2680.6	9354.1	17066.7	17596.0	15913.0	7117.4	3295.3	3246.5
67.5°	387.8	370.8	500.0	792.7	6746.7	11827.4	11610.4	11468.9	4458.8	768.3	670.8
70°	87.8	87.8	107.3	234.2	4122.2	6949.1	7437.0	7090.6	2853.8	163.4	87.8
72.5°	41.5	41.5	51.2	100.0	1492.8	2863.6	3336.8	3285.5	926.9	53.7	31.7
75°	14.6	17.1	17.1	22.0	90.2	148.8	341.5	243.9	58.5	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°	2.4	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°	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4
2.5°	3546.5	3529.5	3466.0	3380.7	3297.7	3224.6	3148.9	3058.7	2992.8	2917.2	2892.8
5°	3941.7	3834.3	3661.2	3480.7	3314.8	3173.3	3036.7	2890.4	2783.1	2675.7	2639.2
7.5°	4275.8	4117.3	3836.8	3566.0	3339.2	3139.2	2941.6	2741.6	2585.5	2458.7	2419.6
10°	4575.8	4392.9	4017.3	3683.1	3397.7	3166.0	2927.0	2675.7	2473.3	2322.1	2285.5
12.5°	4834.4	4622.2	4170.9	3770.9	3422.1	3156.3	2924.5	2724.5	2541.6	2368.4	2322.1
15°	5051.5	4817.3	4300.2	3829.5	3385.5	3034.3	2831.9	2800.1	2785.5	2595.3	2505.0
17.5°	5263.7	5000.3	4405.1	3856.3	3283.1	2819.7	2673.3	2817.2	2970.9	2846.5	2731.8
20°	5485.6	5185.6	4512.4	3861.2	3112.4	2578.2	2553.8	2780.6	2975.8	2936.7	2829.4
22.5°	5746.6	5417.4	4646.6	3858.7	2897.7	2373.3	2466.0	2709.9	2868.4	2866.0	2780.6
25°	6124.7	5710.1	4827.1	3873.4	2663.6	2214.7	2368.4	2590.4	2719.7	2714.8	2644.0
27.5°	6529.6	6058.8	5061.2	3910.0	2463.5	2122.1	2253.8	2427.0	2539.2	2534.3	2473.3
30°	7097.9	6461.3	5285.6	3912.4	2319.6	2073.3	2126.9	2246.5	2353.8	2341.6	2295.2
32.5°	7788.2	6915.0	5473.5	3773.4	2229.4	2026.9	1995.2	2056.2	2139.1	2122.1	2109.9
35°	8622.4	7454.0	5634.4	3468.5	2090.4	1934.2	1848.9	1861.1	1919.6	1929.4	1924.5
37.5°	9573.7	8095.5	5834.4	3066.0	1902.5	1800.1	1685.5	1675.7	1709.8	1741.6	1765.9
40°	10512.7	8817.5	6105.2	2658.7	1731.8	1629.4	1519.6	1495.2	1509.8	1565.9	1617.2
42.5°	11568.9	9654.2	6397.9	2309.9	1614.7	1441.5	1336.7	1290.3	1331.8	1422.0	1483.0
45°	13090.9	10827.4	6683.3	2031.8	1565.9	1275.7	1134.2	1129.3	1175.7	1292.7	1361.0
47.5°	15227.6	12344.5	6871.1	1814.7	1563.5	1146.4	978.1	1007.4	1061.0	1175.7	1253.7
50°	17310.7	14244.6	6663.8	1648.9	1512.3	1061.0	861.0	919.6	973.2	1073.2	1153.7
52.5°	18566.8	15266.6	5856.4	1492.8	1353.7	1022.0	746.4	848.8	858.6	948.8	1034.2
55°	18435.1	14605.6	4485.6	1251.3	1119.6	965.9	626.9	765.9	770.8	839.1	912.2
57.5°	16000.8	12539.7	3080.6	1014.7	841.5	797.6	517.1	646.4	692.7	734.2	787.8
60°	11925.0	9149.3	1373.2	824.4	534.2	539.1	441.5	487.8	558.6	607.3	653.7
62.5°	7027.2	5263.7	558.6	495.1	295.1	339.0	356.1	356.1	400.0	436.6	465.9
65°	2656.2	1841.6	226.8	248.8	153.7	158.5	209.8	258.5	292.7	324.4	363.4
67.5°	465.9	322.0	117.1	92.7	90.2	80.5	107.3	168.3	187.8	212.2	229.3
70°	78.1	65.9	48.8	46.3	41.5	43.9	70.7	119.5	131.7	139.0	146.3
72.5°	22.0	19.5	14.6	12.2	9.8	12.2	43.9	92.7	97.6	102.4	109.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	17.1	65.9	70.7	73.2	80.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	19.5	24.4	19.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4
2.5°	2878.2	2829.4	2802.6	2787.9	2787.9	2768.4	2746.5	2739.2	2770.9	2770.9	2824.5
5°	2592.8	2553.8	2509.9	2483.1	2441.6	2448.9	2424.5	2422.1	2453.8	2468.4	2524.5
7.5°	2395.2	2346.5	2319.6	2302.6	2280.6	2270.8	2248.9	2241.6	2258.7	2283.0	2336.7
10°	2263.5	2256.2	2253.8	2266.0	2266.0	2253.8	2234.3	2222.1	2226.9	2273.3	2334.3
12.5°	2297.7	2312.3	2317.2	2336.7	2346.5	2336.7	2322.1	2326.9	2358.7	2444.0	2534.3
15°	2446.5	2434.3	2429.4	2439.2	2446.5	2436.7	2431.8	2468.4	2578.2	2700.1	2802.6
17.5°	2605.0	2527.0	2492.8	2492.8	2497.7	2492.8	2497.7	2568.4	2746.5	2868.4	2944.1
20°	2685.5	2541.6	2487.9	2475.7	2485.5	2487.9	2505.0	2585.5	2780.6	2866.0	2883.1
22.5°	2661.1	2480.6	2419.6	2409.9	2419.6	2429.4	2446.5	2514.8	2697.7	2741.6	2734.3
25°	2539.2	2361.1	2312.3	2312.3	2334.3	2331.8	2339.1	2387.9	2539.2	2566.0	2553.8
27.5°	2385.5	2217.2	2175.7	2200.1	2219.6	2214.7	2217.2	2258.7	2370.9	2378.2	2366.0
30°	2229.4	2083.0	2044.0	2073.3	2100.1	2095.2	2097.7	2139.1	2209.9	2202.6	2185.5
32.5°	2070.8	1963.5	1934.2	1951.3	1992.8	1987.9	1997.7	2041.6	2068.4	2036.7	2017.2
35°	1924.5	1868.4	1846.4	1856.2	1887.9	1895.2	1912.3	1941.6	1941.6	1902.5	1868.4
37.5°	1787.9	1780.6	1765.9	1753.7	1783.0	1805.0	1829.4	1863.5	1814.7	1758.6	1726.9
40°	1661.1	1692.8	1673.3	1641.5	1658.6	1690.3	1739.1	1765.9	1707.4	1651.3	1597.6
42.5°	1544.0	1597.6	1590.3	1551.3	1565.9	1595.2	1651.3	1673.3	1605.0	1541.5	1490.3
45°	1431.8	1507.4	1512.3	1463.5	1478.1	1507.4	1573.3	1580.6	1492.8	1424.5	1387.9
47.5°	1334.2	1417.1	1419.6	1383.0	1387.9	1429.3	1490.3	1492.8	1392.8	1329.3	1283.0
50°	1241.5	1336.7	1344.0	1312.3	1317.1	1365.9	1417.1	1407.4	1300.1	1234.2	1192.7
52.5°	1129.3	1258.6	1275.7	1261.0	1280.6	1319.6	1351.3	1317.1	1192.7	1126.9	1090.3
55°	1007.4	1175.7	1212.3	1202.5	1224.5	1256.2	1263.5	1241.5	1085.4	1019.6	985.4
57.5°	865.9	968.3	1031.8	1012.2	1029.3	1061.0	1083.0	1065.9	948.8	897.6	868.3
60°	717.1	785.4	800.0	768.3	753.7	809.8	861.0	839.1	739.1	707.4	673.2
62.5°	524.4	602.5	612.2	570.8	553.7	614.7	658.6	636.6	526.9	492.7	465.9
65°	419.5	492.7	512.2	473.2	463.4	509.8	536.6	483.0	404.9	368.3	339.0
67.5°	275.6	334.2	385.4	382.9	363.4	378.1	358.6	314.7	258.5	239.0	219.5
70°	170.7	204.9	236.6	248.8	246.4	241.5	214.6	182.9	165.9	158.5	148.8
72.5°	131.7	165.9	190.3	197.6	200.0	192.7	170.7	141.5	124.4	114.6	107.3
75°	97.6	124.4	143.9	153.7	158.5	153.7	131.7	112.2	95.1	87.8	80.5
77.5°	34.1	41.5	51.2	56.1	53.7	51.2	46.3	46.3	36.6	34.1	29.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4	3190.4
2.5°	2885.5	2929.4	3009.9	3083.1	3161.1	3241.6	3329.4	3419.7	3461.2	3456.3
5°	2609.9	2705.0	2836.7	2980.6	3141.6	3314.8	3507.5	3705.1	3790.4	3827.0
7.5°	2436.7	2570.9	2744.0	2927.0	3139.2	3385.5	3675.8	3985.6	4110.0	4151.4
10°	2458.7	2614.8	2758.7	2936.7	3163.6	3483.1	3844.1	4212.4	4358.8	4405.1
12.5°	2636.7	2670.9	2709.9	2856.2	3141.6	3556.3	3997.8	4436.8	4605.1	4651.5
15°	2797.7	2639.2	2566.0	2700.1	3063.6	3607.5	4153.9	4678.3	4863.7	4917.3
17.5°	2805.0	2566.0	2402.6	2507.4	2936.7	3629.5	4307.5	4924.6	5127.1	5178.3
20°	2714.8	2485.5	2275.7	2278.2	2763.6	3624.6	4434.4	5146.6	5373.4	5419.8
22.5°	2583.1	2390.4	2173.3	2097.7	2578.2	3614.8	4573.4	5383.2	5629.6	5673.5
25°	2436.7	2268.4	2075.7	1961.1	2392.8	3624.6	4768.5	5693.0	5963.7	6005.2
27.5°	2278.2	2134.3	2000.1	1907.4	2236.7	3661.2	5002.7	6088.1	6410.1	6454.0
30°	2112.3	2005.0	1951.3	1895.2	2139.1	3670.9	5256.4	6549.1	6956.5	7017.4
32.5°	1948.9	1890.3	1892.8	1902.5	2046.4	3602.6	5488.1	7061.3	7605.3	7702.8
35°	1797.7	1780.6	1829.4	1878.1	1912.3	3427.0	5690.5	7666.3	8407.8	8507.8
37.5°	1668.4	1683.0	1744.0	1792.8	1765.9	3178.2	5958.8	8422.4	9305.4	9390.7
40°	1544.0	1580.6	1651.3	1673.3	1653.7	2888.0	6280.8	9151.7	10083.4	10200.5
42.5°	1429.3	1456.2	1556.2	1561.1	1622.0	2592.8	6590.6	9937.1	10978.6	11039.6
45°	1336.7	1331.8	1434.2	1465.9	1663.5	2266.0	6893.0	10983.5	12149.4	12237.2
47.5°	1246.4	1241.5	1265.9	1409.8	1680.6	1963.5	7193.1	12515.3	13847.1	13998.3
50°	1161.0	1168.4	1092.7	1383.0	1587.9	1731.8	7329.6	13932.4	15391.0	15454.5
52.5°	1085.4	1058.6	926.9	1295.2	1390.3	1512.3	6941.8	14576.4	16347.2	16527.7
55°	978.1	829.3	763.5	1051.3	1097.6	1319.6	5685.7	14203.2	16430.1	16749.6
57.5°	836.6	651.3	648.8	775.6	775.6	1224.5	3641.7	12134.8	14159.3	14720.3
60°	643.9	504.9	536.6	539.1	497.6	892.7	2044.0	8790.7	10468.8	11027.4
62.5°	458.6	385.4	404.9	322.0	285.4	446.4	980.5	5061.2	6461.3	6539.4
65°	307.3	261.0	212.2	178.1	175.6	190.3	404.9	1829.4	2224.5	2509.9
67.5°	202.4	158.5	112.2	112.2	126.8	126.8	153.7	302.5	424.4	387.8
70°	131.7	109.8	70.7	68.3	82.9	82.9	78.1	82.9	87.8	87.8
72.5°	97.6	82.9	41.5	36.6	46.3	48.8	43.9	41.5	41.5	41.5
75°	73.2	58.5	24.4	17.1	22.0	29.3	24.4	17.1	17.1	14.6
77.5°	29.3	22.0	9.8	7.3	12.2	17.1	14.6	7.3	4.9	4.9
80°	2.4	4.9	4.9	4.9	7.3	9.8	12.2	4.9	2.4	2.4
82.5°	0.0	2.4	2.4	2.4	4.9	7.3	9.8	4.9	2.4	2.4
85°	0.0	0.0	0.0	0.0	4.9	7.3	4.9	2.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.4	7.3	4.9	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)