

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: P638540

Luminaire Tested: GWS-SA4F-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-722-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

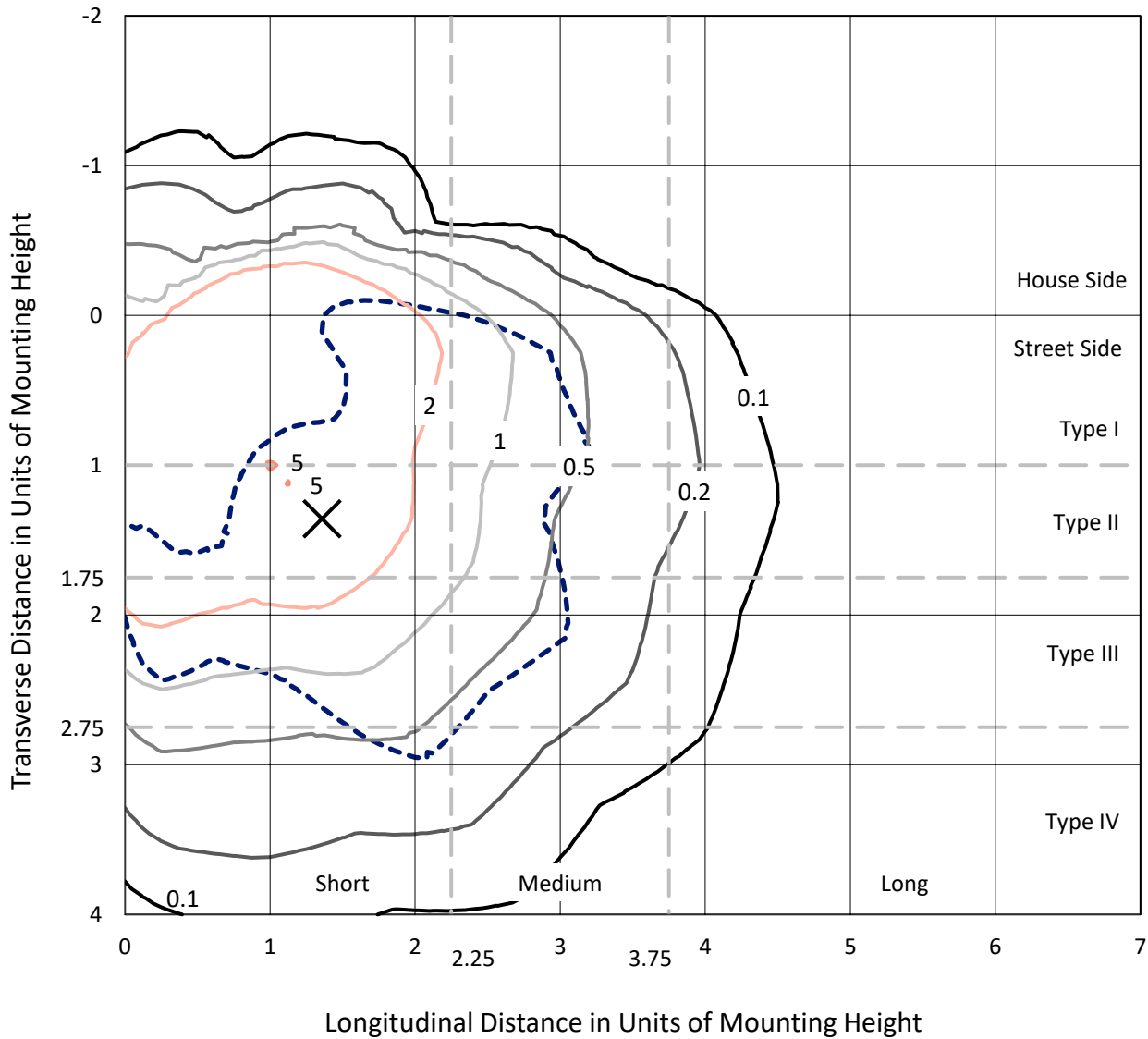
Lumens per Lamp: N/A  
Luminaire Lumens: 15553.6 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

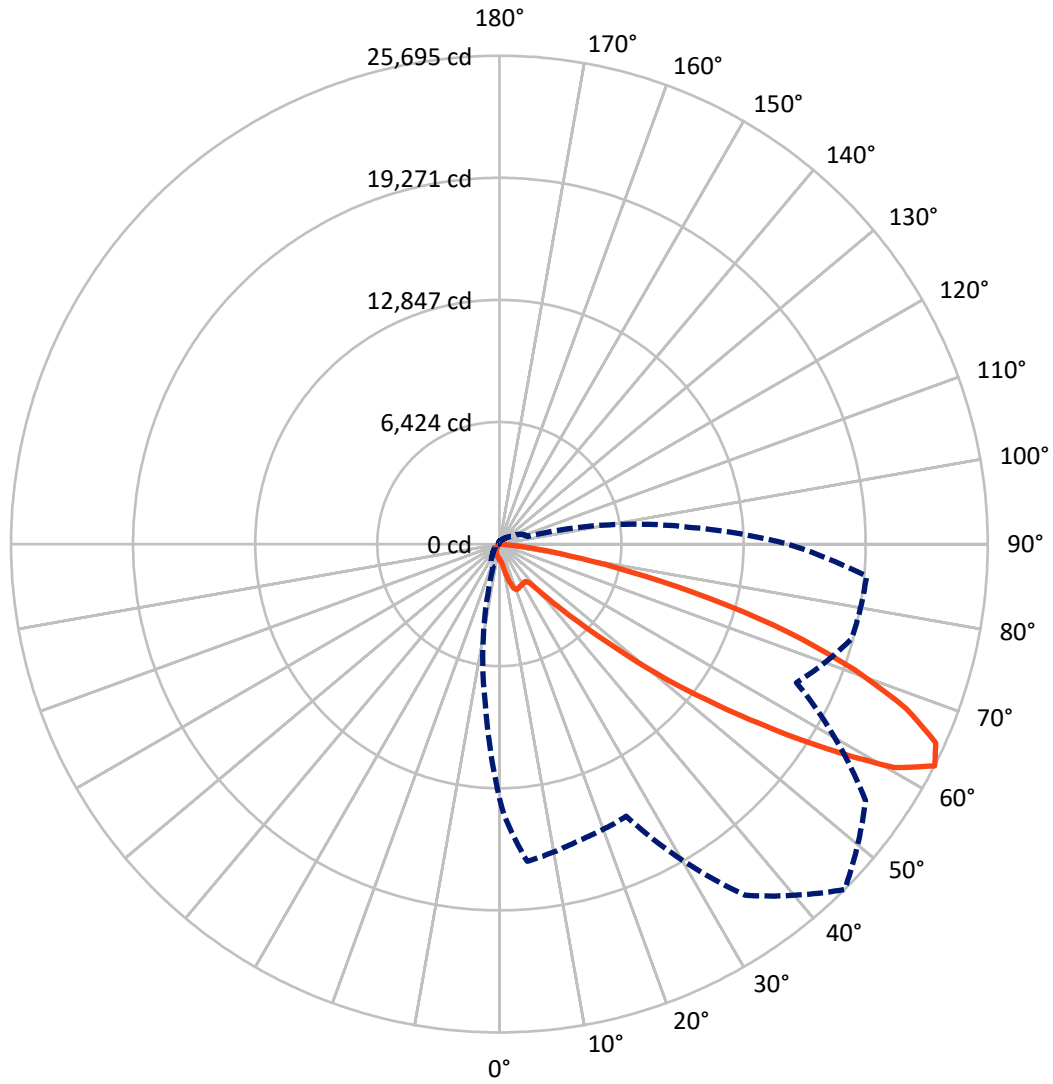
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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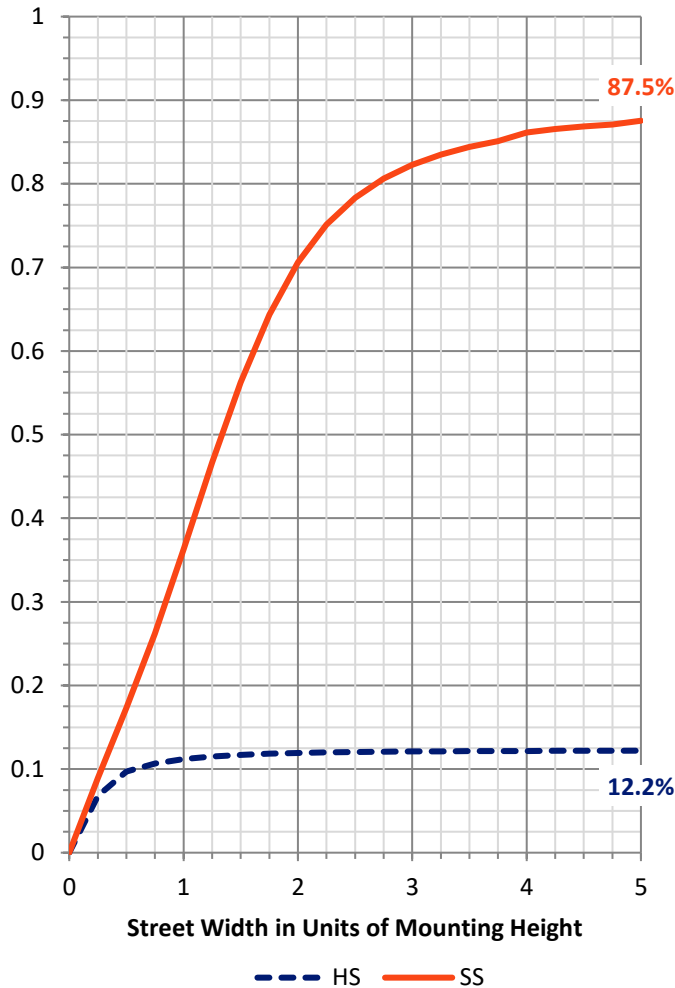
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1919.3	0.0	1919.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	13634.3	0.0	13634.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	15553.6	0.0	15553.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	0.5
10°-20°	271.2	1.7
20°-30°	589.5	3.8
30°-40°	967.5	6.2
40°-50°	1778.7	11.4
50°-60°	3819.7	24.6
60°-70°	5130.5	33.0
70°-80°	2671.5	17.2
80°-90°	253.3	1.6
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°	15553.6	100.0
0°-180°	15553.6	100.0

**Coefficient of Utilization**



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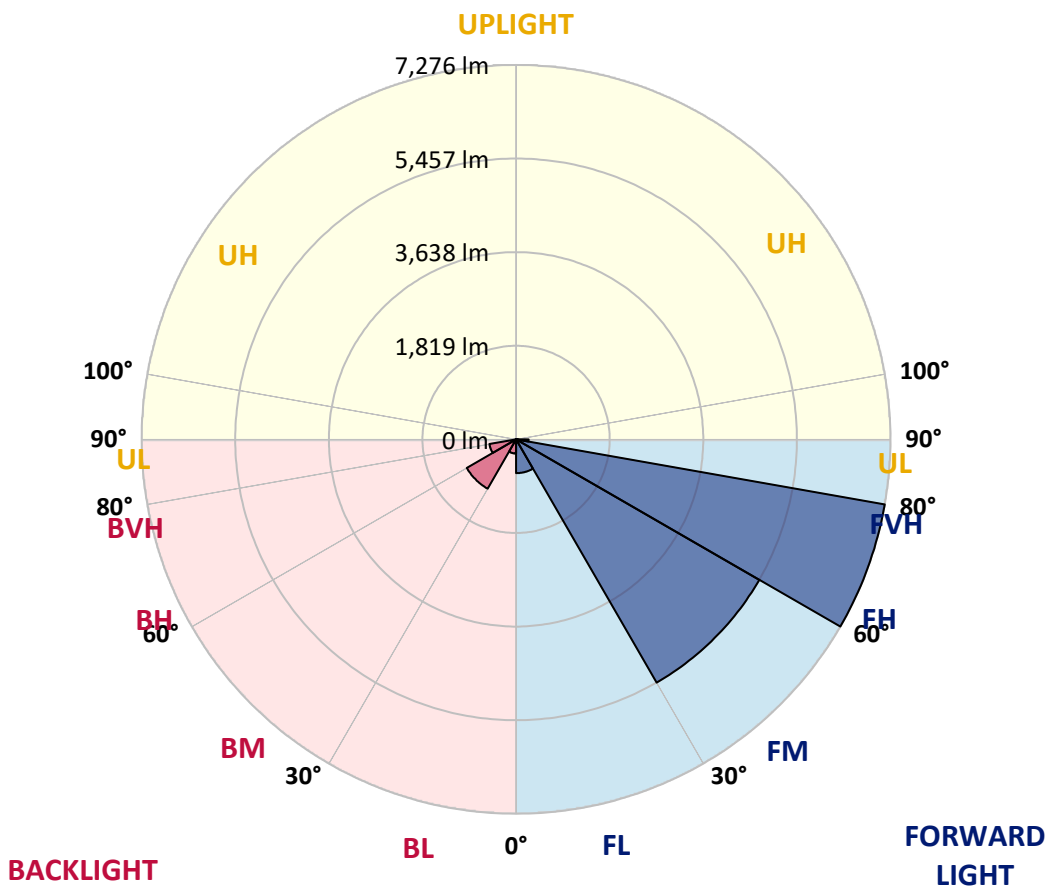
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.1	4.2			
FM (30°-60°)	5459.1	35.1			
FH (60°-80°)	7276.1	46.8			G3/7500
FVH (80°-90°)	242.0	1.6			G3/500
BL (0°-30°)	275.3	1.8	B1/500		
BM (30°-60°)	1106.8	7.1	B2/2500		
BH (60°-80°)	525.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	824.6	828.2	831.8	844.4	853.4	860.6	862.4	857.0	844.4	831.8	813.9
5°	799.5	803.1	815.6	849.8	883.9	910.9	919.8	914.5	883.9	844.4	803.1
7.5°	797.7	804.9	835.4	907.3	980.9	1036.6	1051.0	1038.4	980.9	901.9	817.4
10°	862.4	874.9	919.8	1049.2	1183.9	1282.8	1322.3	1268.4	1176.8	1033.0	894.7
12.5°	1031.2	1052.8	1139.0	1327.7	1536.1	1667.2	1721.1	1654.7	1510.9	1302.5	1083.3
15°	1297.1	1329.5	1458.8	1740.9	1987.0	2103.8	2121.8	2084.0	1917.0	1687.0	1392.4
17.5°	1672.6	1719.3	1920.5	2208.0	2385.9	2427.2	2421.8	2382.3	2260.1	2102.0	1823.5
20°	2121.8	2177.5	2375.1	2612.2	2630.2	2581.7	2554.7	2531.4	2490.1	2463.1	2245.7
22.5°	2574.5	2642.8	2849.4	2908.7	2747.0	2606.8	2540.4	2558.3	2619.4	2752.4	2664.3
25°	3025.4	3090.1	3284.2	3124.3	2800.9	2567.3	2482.9	2526.0	2671.5	2959.0	3072.2
27.5°	3551.8	3600.3	3715.3	3271.6	2809.9	2535.0	2452.3	2518.8	2696.7	3088.3	3519.5
30°	4099.8	4128.5	4072.9	3311.1	2779.3	2486.5	2421.8	2518.8	2739.8	3174.6	3855.5
32.5°	4502.2	4507.6	4326.2	3314.7	2763.1	2446.9	2393.0	2508.0	2781.1	3246.4	4180.6
35°	4917.2	4890.3	4568.7	3368.6	2806.3	2461.3	2414.6	2538.6	2845.8	3330.9	4466.3
37.5°	5337.6	5289.1	4840.0	3456.6	2917.6	2617.6	2588.9	2694.9	2950.0	3447.6	4780.7
40°	5768.8	5702.3	5122.1	3589.6	3165.6	3149.4	3248.2	3235.6	3235.6	3596.8	5104.1
42.5°	6295.2	6218.0	5538.9	3965.1	3744.1	4105.2	4374.7	4207.6	3898.6	3939.9	5524.5
45°	6990.5	6924.0	6261.1	4683.7	4651.3	5481.4	5844.3	5513.7	4744.8	4732.2	6227.0
47.5°	8102.6	8090.0	7412.7	5517.3	5761.6	7233.0	7933.7	7297.7	5709.5	5571.2	7556.4
50°	9665.6	9627.9	8848.2	6494.6	7082.1	9403.3	10653.7	9593.7	6875.5	6550.3	9336.8
52.5°	11426.3	11465.8	10858.5	7561.8	8485.3	11817.9	13558.8	12223.9	8142.1	7795.4	11577.2
55°	13084.5	13310.9	13151.0	8810.4	9856.0	14484.0	16749.5	15109.2	9710.5	9424.9	14088.8
57.5°	14381.6	15019.4	16140.5	10625.0	11467.6	17602.9	20312.1	18237.1	11541.2	12071.2	17507.7
60°	14453.5	15297.9	17901.1	14421.2	13540.8	20278.0	23869.4	21293.1	14419.4	16564.5	20186.4
62.5°	13370.2	14275.6	16754.9	16145.9	15799.1	22554.3	25694.7	23520.8	17250.8	19196.5	19392.3
65°	12130.5	13045.0	15475.8	14189.4	15536.8	22457.3	25231.2	23572.9	17507.7	17407.1	17971.2
67.5°	10256.7	11077.7	13278.5	12559.9	14320.6	21373.9	23089.7	22087.2	16129.7	16280.6	16532.1
70°	7486.4	8276.9	10319.6	10355.5	12506.0	19421.0	19839.6	19701.3	14854.1	15014.0	14295.4
72.5°	5407.7	6074.2	7836.7	8492.4	9983.6	16286.0	15996.8	16530.3	12744.9	13372.0	11482.0
75°	3887.8	4387.3	5749.1	7387.5	7913.9	12094.6	11451.4	12802.4	10226.1	11514.3	8632.6
77.5°	1577.4	1753.5	2261.9	4976.5	5201.1	8136.7	7010.3	9299.1	7290.5	7565.4	4184.2
80°	64.7	71.9	93.4	2569.1	3566.2	4577.7	3751.3	4971.1	4814.8	3047.0	988.1
82.5°	7.2	7.2	16.2	740.2	1561.2	2526.0	1767.8	2863.8	2438.0	1291.7	449.1
85°	1.8	1.8	3.6	84.4	366.5	404.2	238.9	878.5	1133.6	528.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.2	18.0	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°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	813.9	804.9	794.1	783.3	777.9	763.5	758.2	754.6	751.0	752.8	752.8
5°	786.9	767.1	743.8	720.4	707.9	693.5	686.3	682.7	684.5	691.7	691.7
7.5°	783.3	745.6	695.3	664.7	650.4	639.6	632.4	628.8	630.6	639.6	643.2
10°	842.6	776.1	686.3	634.2	618.0	607.2	600.1	594.7	591.1	598.3	600.1
12.5°	970.2	878.5	729.4	630.6	601.9	587.5	582.1	571.3	565.9	569.5	571.3
15°	1234.3	1076.2	815.6	645.0	587.5	571.3	562.3	553.3	544.4	542.6	544.4
17.5°	1579.2	1352.8	946.8	679.1	576.7	556.9	544.4	531.8	519.2	517.4	515.6
20°	2006.8	1692.4	1130.0	733.0	567.7	544.4	526.4	508.4	492.3	486.9	486.9
22.5°	2396.6	2102.0	1365.4	799.5	555.1	526.4	504.8	483.3	465.3	456.3	454.5
25°	2872.7	2536.8	1647.5	876.7	537.2	503.0	479.7	458.1	440.2	429.4	425.8
27.5°	3352.4	2994.9	1967.3	977.3	515.6	479.7	458.1	438.4	418.6	406.0	402.4
30°	3817.7	3489.0	2326.6	1103.1	499.4	456.3	438.4	418.6	400.6	380.9	375.5
32.5°	4317.2	3993.8	2729.0	1243.2	486.9	440.2	420.4	402.4	379.1	361.1	352.1
35°	4798.7	4514.8	3172.8	1379.8	474.3	425.8	404.2	386.3	361.1	341.4	328.8
37.5°	5283.7	5044.8	3636.3	1462.4	456.3	406.0	386.3	371.9	343.1	319.8	305.4
40°	5797.6	5592.8	4137.5	1428.3	440.2	384.5	373.7	357.5	325.2	298.2	280.3
42.5°	6361.7	6115.6	4647.8	1297.1	425.8	366.5	355.7	339.6	309.0	276.7	253.3
45°	7071.3	6688.7	5066.4	1099.5	433.0	348.5	327.0	323.4	294.6	253.3	224.6
47.5°	8291.2	7569.0	5391.5	972.0	481.5	328.8	303.6	312.6	282.1	230.0	197.6
50°	10157.9	9027.8	5695.2	963.0	555.1	319.8	282.1	305.4	269.5	206.6	174.3
52.5°	11936.5	10510.0	5889.2	1042.0	619.8	343.1	260.5	296.4	260.5	190.4	158.1
55°	13637.8	11365.2	5542.5	1099.5	680.9	413.2	244.3	282.1	249.7	181.5	152.7
57.5°	15472.2	11746.0	4363.9	1216.3	724.0	472.5	247.9	260.5	235.4	176.1	150.9
60°	16020.1	11259.2	2633.8	1369.0	700.7	490.5	274.9	231.8	215.6	165.3	145.5
62.5°	15168.5	10104.0	1554.0	1246.8	680.9	463.5	314.4	213.8	195.8	150.9	134.7
65°	13894.8	8535.6	1013.3	1052.8	722.2	413.2	334.2	204.8	177.9	136.5	118.6
67.5°	12439.5	6875.5	709.6	621.6	666.5	371.9	282.1	203.0	159.9	115.0	97.0
70°	10477.7	5149.0	499.4	411.4	555.1	330.6	219.2	197.6	140.1	93.4	75.5
72.5°	8095.4	3223.1	371.9	265.9	395.2	269.5	174.3	167.1	113.2	77.3	57.5
75°	5970.0	1837.9	262.3	192.2	260.5	204.8	129.4	118.6	97.0	73.7	52.1
77.5°	3117.1	919.8	163.5	147.3	149.1	127.6	93.4	86.2	89.8	73.7	48.5
80°	598.3	183.3	98.8	107.8	80.8	80.8	68.3	71.9	79.0	59.3	41.3
82.5°	249.7	39.5	53.9	61.1	50.3	55.7	55.7	57.5	55.7	43.1	30.5
85°	0.0	0.0	23.4	25.2	34.1	34.1	28.7	28.7	28.7	25.2	18.0
87.5°	0.0	0.0	0.0	0.0	1.8	5.4	10.8	12.6	14.4	10.8	7.2
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°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	751.0	747.4	752.8	756.4	760.0	760.0	756.4	752.8	747.4	752.8	747.4
5°	693.5	698.9	707.9	711.4	715.0	707.9	704.3	693.5	684.5	686.3	682.7
7.5°	648.6	654.0	664.7	671.9	671.9	668.3	657.5	646.8	632.4	632.4	630.6
10°	607.2	614.4	627.0	636.0	639.6	636.0	625.2	610.8	598.3	598.3	592.9
12.5°	573.1	582.1	596.5	609.0	612.6	609.0	598.3	583.9	569.5	569.5	565.9
15°	544.4	555.1	571.3	585.7	591.1	585.7	573.1	555.1	540.8	542.6	537.2
17.5°	517.4	526.4	548.0	564.1	569.5	564.1	548.0	524.6	510.2	513.8	510.2
20°	486.9	497.7	519.2	537.2	542.6	537.2	519.2	494.1	479.7	479.7	481.5
22.5°	454.5	465.3	486.9	499.4	506.6	501.2	483.3	459.9	445.6	445.6	447.3
25°	425.8	431.2	447.3	459.9	461.7	456.3	442.0	424.0	413.2	418.6	420.4
27.5°	398.8	398.8	406.0	413.2	411.4	406.0	400.6	386.3	384.5	389.9	395.2
30°	370.1	361.1	357.5	352.1	350.3	348.5	353.9	353.9	357.5	364.7	370.1
32.5°	344.9	327.0	310.8	294.6	285.7	292.8	307.2	319.8	332.4	343.1	348.5
35°	316.2	287.5	260.5	238.9	224.6	235.4	258.7	282.1	303.6	318.0	327.0
37.5°	287.5	246.1	213.8	186.8	176.1	185.0	210.2	242.5	274.9	292.8	305.4
40°	256.9	204.8	167.1	145.5	134.7	143.7	168.9	201.2	244.3	267.7	283.9
42.5°	226.4	168.9	134.7	113.2	107.8	113.2	132.9	165.3	212.0	240.7	262.3
45°	195.8	140.1	107.8	91.6	86.2	91.6	107.8	134.7	181.5	213.8	238.9
47.5°	168.9	118.6	89.8	75.5	71.9	77.3	89.8	113.2	152.7	185.0	213.8
50°	147.3	104.2	77.3	64.7	61.1	66.5	77.3	95.2	129.4	158.1	188.6
52.5°	132.9	97.0	68.3	55.7	53.9	57.5	66.5	80.8	109.6	134.7	163.5
55°	129.4	97.0	62.9	50.3	48.5	52.1	59.3	70.1	95.2	116.8	141.9
57.5°	132.9	104.2	59.3	43.1	41.3	44.9	52.1	61.1	82.6	100.6	124.0
60°	132.9	106.0	52.1	34.1	32.3	35.9	43.1	53.9	73.7	88.0	107.8
62.5°	120.4	97.0	43.1	26.9	23.4	26.9	35.9	44.9	64.7	79.0	95.2
65°	104.2	82.6	35.9	19.8	16.2	19.8	28.7	37.7	55.7	68.3	86.2
67.5°	84.4	62.9	26.9	14.4	10.8	14.4	21.6	30.5	46.7	59.3	77.3
70°	62.9	44.9	21.6	12.6	10.8	12.6	19.8	28.7	41.3	53.9	71.9
72.5°	46.7	30.5	18.0	12.6	9.0	12.6	18.0	26.9	39.5	52.1	68.3
75°	39.5	25.2	16.2	10.8	9.0	10.8	16.2	25.2	35.9	48.5	64.7
77.5°	37.7	23.4	14.4	9.0	7.2	9.0	14.4	21.6	32.3	44.9	62.9
80°	32.3	19.8	12.6	7.2	5.4	7.2	12.6	18.0	25.2	34.1	48.5
82.5°	25.2	16.2	9.0	3.6	1.8	3.6	9.0	10.8	16.2	19.8	28.7
85°	16.2	9.0	3.6	0.0	0.0	0.0	3.6	7.2	7.2	9.0	14.4
87.5°	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.4
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°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	758.2	760.0	763.5	768.9	781.5	792.3	803.1	817.4	824.6	824.6
5°	686.3	688.1	689.9	697.1	715.0	729.4	752.8	781.5	795.9	799.5
7.5°	630.6	634.2	637.8	643.2	661.1	680.9	711.4	765.3	792.3	797.7
10°	598.3	603.7	610.8	621.6	637.8	659.3	711.4	808.5	853.4	862.4
12.5°	573.1	582.1	589.3	601.9	621.6	655.8	760.0	930.6	1009.7	1031.2
15°	548.0	558.7	569.5	582.1	603.7	668.3	853.4	1149.8	1281.0	1297.1
17.5°	522.8	535.4	549.8	564.1	591.1	698.9	1000.7	1453.4	1636.7	1672.6
20°	494.1	510.2	530.0	548.0	578.5	747.4	1205.5	1814.5	2044.5	2121.8
22.5°	463.5	483.3	506.6	530.0	564.1	806.7	1453.4	2202.6	2524.2	2574.5
25°	438.4	458.1	479.7	503.0	540.8	878.5	1753.5	2684.1	2976.9	3025.4
27.5°	415.0	434.8	454.5	476.1	517.4	972.0	2114.6	3196.1	3501.5	3551.8
30°	389.9	413.2	433.0	454.5	495.9	1086.9	2531.4	3763.8	4053.1	4099.8
32.5°	368.3	391.7	411.4	433.0	479.7	1212.7	2969.7	4266.9	4502.2	4502.2
35°	350.3	375.5	389.9	418.6	467.1	1293.5	3384.8	4746.6	4924.4	4917.2
37.5°	330.6	361.1	371.9	391.7	450.9	1302.5	3774.6	5253.2	5384.4	5337.6
40°	310.8	343.1	359.3	370.1	433.0	1228.9	4202.2	5718.5	5829.9	5768.8
42.5°	292.8	318.0	341.4	353.9	422.2	1099.5	4545.4	6216.2	6349.1	6295.2
45°	274.9	296.4	310.8	334.2	429.4	1009.7	4840.0	6796.5	7030.0	6990.5
47.5°	256.9	274.9	283.9	319.8	477.9	968.4	5019.6	7694.8	8134.9	8102.6
50°	237.1	258.7	258.7	316.2	549.8	982.7	5176.0	8995.5	9676.4	9665.6
52.5°	217.4	240.7	237.1	343.1	605.4	1049.2	5353.8	10143.5	11327.4	11426.3
55°	197.6	219.2	222.8	397.0	637.8	1106.7	4665.7	10626.8	12737.8	13084.5
57.5°	176.1	188.6	231.8	438.4	627.0	1273.8	3196.1	10714.8	13637.8	14381.6
60°	152.7	163.5	262.3	429.4	592.9	1176.8	2012.2	9924.3	13510.3	14453.5
62.5°	132.9	150.9	276.7	379.1	603.7	1020.5	1282.8	8458.3	12294.0	13370.2
65°	116.8	145.5	251.5	343.1	610.8	691.7	866.0	6880.9	11106.5	12130.5
67.5°	104.2	161.7	206.6	305.4	524.6	486.9	594.7	5346.6	9338.6	10256.7
70°	95.2	165.3	168.9	262.3	406.0	312.6	391.7	3598.6	6437.2	7486.4
72.5°	86.2	122.2	127.6	210.2	262.3	190.4	253.3	2058.9	4692.7	5407.7
75°	82.6	82.6	88.0	136.5	145.5	138.3	163.5	1228.9	3365.0	3887.8
77.5°	77.3	62.9	55.7	88.0	79.0	98.8	97.0	546.2	1458.8	1577.4
80°	61.1	44.9	37.7	55.7	53.9	66.5	57.5	44.9	66.5	64.7
82.5°	37.7	28.7	26.9	34.1	30.5	34.1	26.9	7.2	7.2	7.2
85°	18.0	16.2	14.4	14.4	16.2	14.4	10.8	3.6	1.8	1.8
87.5°	9.0	9.0	7.2	5.4	7.2	7.2	5.4	1.8	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)