

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: P638760

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638760
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21115.5 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

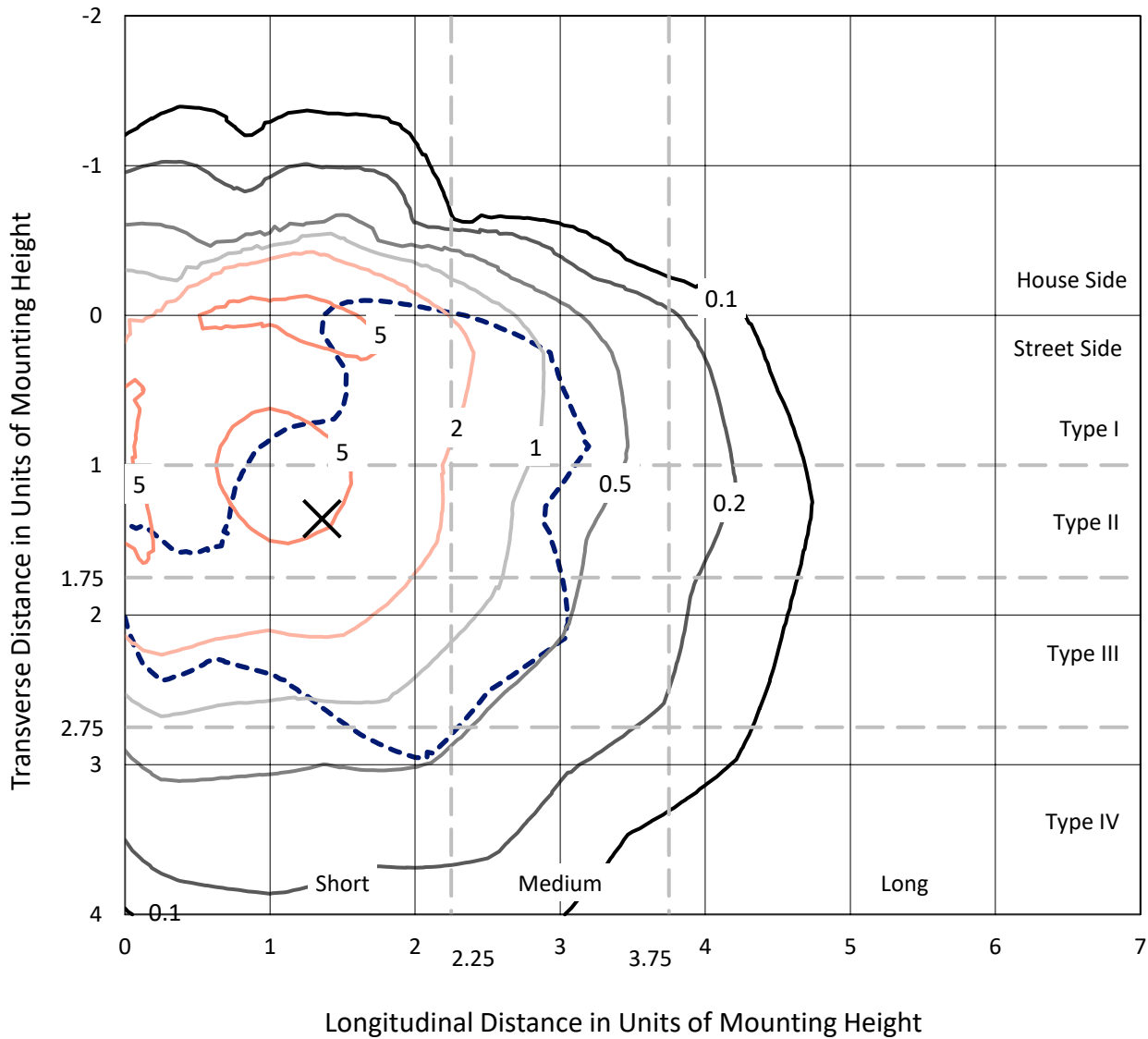
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

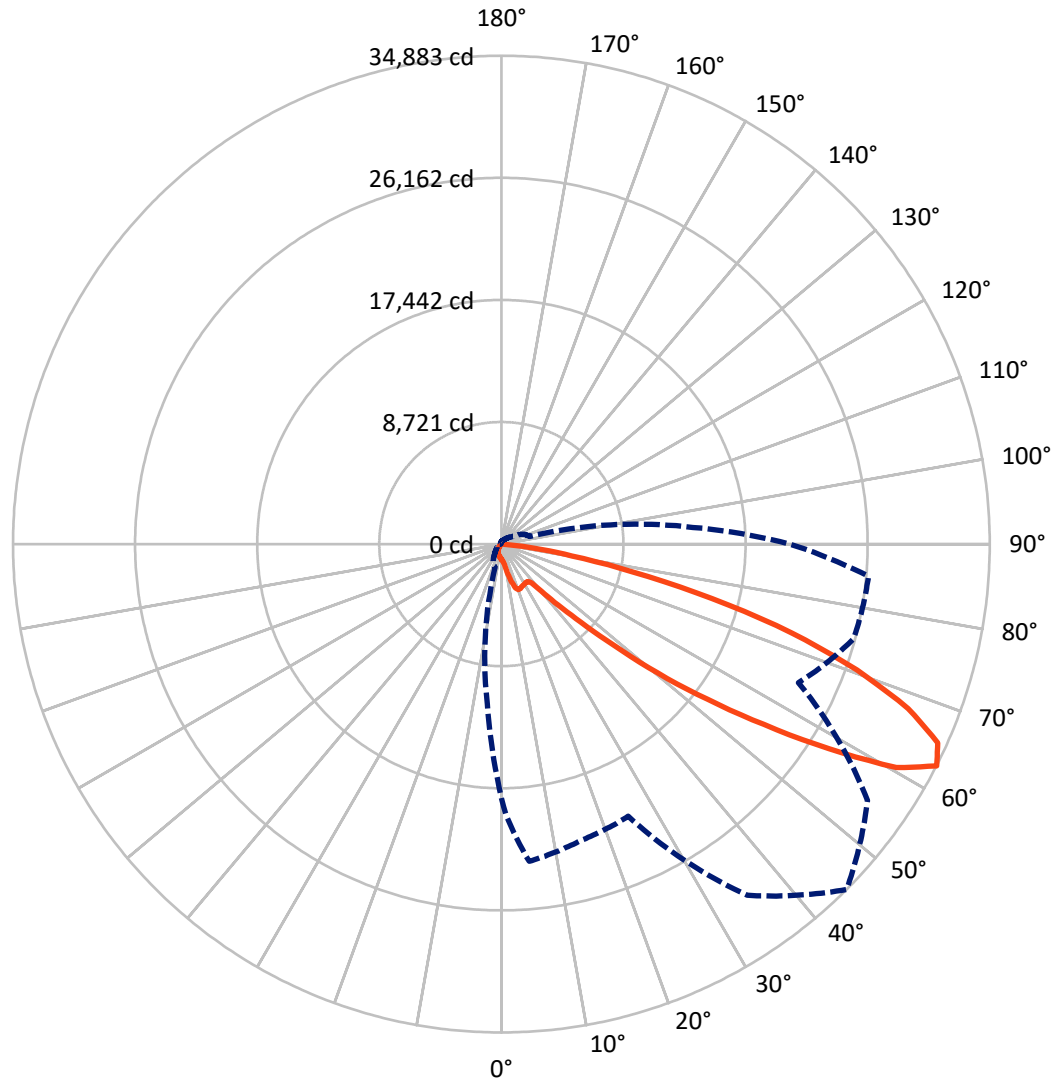
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
House Side	Lumens	2605.6	0.0	2605.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18509.9	0.0	18509.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	21115.5	0.0	21115.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	0.5
10°-20°	368.1	1.7
20°-30°	800.3	3.8
30°-40°	1313.5	6.2
40°-50°	2414.7	11.4
50°-60°	5185.7	24.6
60°-70°	6965.2	33.0
70°-80°	3626.8	17.2
80°-90°	343.9	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°	21115.5	100.0
0°-180°	21115.5	100.0

Coefficient of Utilization



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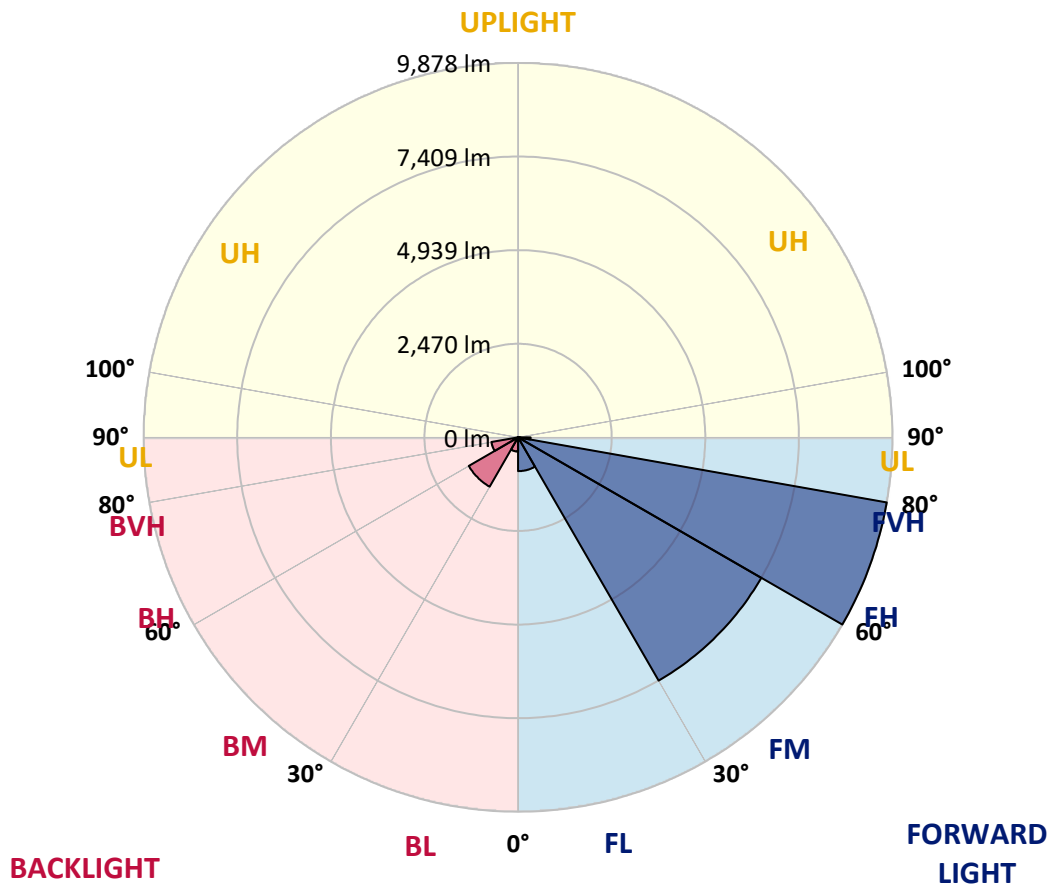
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.0	4.2			
FM (30°-60°)	7411.3	35.1			
FH (60°-80°)	9878.0	46.8			G4/12000
FVH (80°-90°)	328.6	1.6			G3/500
BL (0°-30°)	373.8	1.8	B1/500		
BM (30°-60°)	1502.6	7.1	B2/2500		
BH (60°-80°)	714.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	15.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1119.5	1124.4	1129.3	1146.3	1158.5	1168.3	1170.7	1163.4	1146.3	1129.3	1104.9
5°	1085.4	1090.2	1107.3	1153.7	1200.0	1236.6	1248.8	1241.5	1200.0	1146.3	1090.2
7.5°	1082.9	1092.7	1134.1	1231.7	1331.7	1407.3	1426.8	1409.8	1331.7	1224.4	1109.8
10°	1170.7	1187.8	1248.8	1424.4	1607.3	1741.5	1795.1	1722.0	1597.6	1402.4	1214.6
12.5°	1400.0	1429.3	1546.3	1802.4	2085.4	2263.4	2336.6	2246.3	2051.2	1768.3	1470.7
15°	1761.0	1804.9	1980.5	2363.4	2697.6	2856.1	2880.5	2829.3	2602.4	2290.3	1890.2
17.5°	2270.7	2334.2	2607.3	2997.6	3239.0	3295.1	3287.8	3234.2	3068.3	2853.7	2475.6
20°	2880.5	2956.1	3224.4	3546.4	3570.7	3504.9	3468.3	3436.6	3380.5	3343.9	3048.8
22.5°	3495.1	3587.8	3868.3	3948.8	3729.3	3539.0	3448.8	3473.2	3556.1	3736.6	3617.1
25°	4107.3	4195.1	4458.5	4241.5	3802.4	3485.4	3370.7	3429.3	3626.8	4017.1	4170.7
27.5°	4822.0	4887.8	5043.9	4441.5	3814.6	3441.5	3329.3	3419.5	3661.0	4192.7	4778.1
30°	5565.9	5604.9	5529.3	4495.1	3773.2	3375.6	3287.8	3419.5	3719.5	4309.8	5234.2
32.5°	6112.2	6119.5	5873.2	4500.0	3751.2	3322.0	3248.8	3404.9	3775.6	4407.3	5675.6
35°	6675.6	6639.0	6202.5	4573.2	3809.8	3341.5	3278.1	3446.4	3863.4	4522.0	6063.4
37.5°	7246.4	7180.5	6570.7	4692.7	3961.0	3553.7	3514.6	3658.5	4004.9	4680.5	6490.3
40°	7831.7	7741.5	6953.7	4873.2	4297.6	4275.6	4409.8	4392.7	4392.7	4882.9	6929.3
42.5°	8546.4	8441.5	7519.5	5382.9	5082.9	5573.2	5939.0	5712.2	5292.7	5348.8	7500.0
45°	9490.3	9400.0	8500.0	6358.6	6314.7	7441.5	7934.2	7485.4	6441.5	6424.4	8453.7
47.5°	11000.0	10983.0	10063.4	7490.3	7822.0	9819.5	10770.8	9907.3	7751.2	7563.4	10258.6
50°	13122.0	13070.8	12012.2	8817.1	9614.7	12765.9	14463.5	13024.4	9334.2	8892.7	12675.6
52.5°	15512.2	15565.9	14741.5	10265.9	11519.5	16043.9	18407.4	16595.2	11053.7	10583.0	15717.1
55°	17763.5	18070.8	17853.7	11961.0	13380.5	19663.5	22739.1	20512.3	13183.0	12795.2	19126.9
57.5°	19524.4	20390.3	21912.3	14424.4	15568.3	23897.6	27575.7	24758.6	15668.3	16387.9	23768.4
60°	19622.0	20768.4	24302.5	19578.1	18383.0	27529.3	32405.0	28907.4	19575.7	22487.9	27405.0
62.5°	18151.3	19380.5	22746.4	21919.6	21448.8	30619.6	34883.0	31931.8	23419.6	26061.0	26326.9
65°	16468.3	17709.8	21009.8	19263.5	21092.7	30487.9	34253.8	32002.5	23768.4	23631.8	24397.6
67.5°	13924.4	15039.1	18026.9	17051.3	19441.5	29017.2	31346.4	29985.4	21897.6	22102.5	22444.0
70°	10163.4	11236.6	14009.8	14058.6	16978.1	26365.9	26934.2	26746.4	20165.9	20383.0	19407.4
72.5°	7341.5	8246.4	10639.1	11529.3	13553.7	22109.8	21717.1	22441.5	17302.5	18153.7	15587.8
75°	5278.1	5956.1	7804.9	10029.3	10743.9	16419.6	15546.4	17380.5	13883.0	15631.8	11719.5
77.5°	2141.5	2380.5	3070.7	6756.1	7061.0	11046.4	9517.1	12624.4	9897.6	10270.8	5680.5
80°	87.8	97.6	126.8	3487.8	4841.5	6214.7	5092.7	6748.8	6536.6	4136.6	1341.5
82.5°	9.8	9.8	22.0	1004.9	2119.5	3429.3	2400.0	3887.8	3309.8	1753.7	609.8
85°	2.4	2.4	4.9	114.6	497.6	548.8	324.4	1192.7	1539.0	717.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	22.0	24.4	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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1104.9	1092.7	1078.1	1063.4	1056.1	1036.6	1029.3	1024.4	1019.5	1022.0	1022.0
5°	1068.3	1041.5	1009.8	978.1	961.0	941.5	931.7	926.8	929.3	939.0	939.0
7.5°	1063.4	1012.2	943.9	902.4	882.9	868.3	858.5	853.7	856.1	868.3	873.2
10°	1143.9	1053.7	931.7	861.0	839.0	824.4	814.6	807.3	802.4	812.2	814.6
12.5°	1317.1	1192.7	990.2	856.1	817.1	797.6	790.2	775.6	768.3	773.2	775.6
15°	1675.6	1461.0	1107.3	875.6	797.6	775.6	763.4	751.2	739.0	736.6	739.0
17.5°	2143.9	1836.6	1285.4	922.0	782.9	756.1	739.0	722.0	704.9	702.4	700.0
20°	2724.4	2297.6	1534.2	995.1	770.7	739.0	714.6	690.2	668.3	661.0	661.0
22.5°	3253.7	2853.7	1853.7	1085.4	753.7	714.6	685.4	656.1	631.7	619.5	617.1
25°	3900.0	3443.9	2236.6	1190.2	729.3	682.9	651.2	622.0	597.6	582.9	578.1
27.5°	4551.2	4065.9	2670.7	1326.8	700.0	651.2	622.0	595.1	568.3	551.2	546.3
30°	5182.9	4736.6	3158.5	1497.6	678.1	619.5	595.1	568.3	543.9	517.1	509.8
32.5°	5861.0	5422.0	3704.9	1687.8	661.0	597.6	570.7	546.3	514.6	490.2	478.1
35°	6514.7	6129.3	4307.3	1873.2	643.9	578.1	548.8	524.4	490.2	463.4	446.3
37.5°	7173.2	6848.8	4936.6	1985.4	619.5	551.2	524.4	504.9	465.9	434.1	414.6
40°	7870.8	7592.7	5617.1	1939.0	597.6	522.0	507.3	485.4	441.5	404.9	380.5
42.5°	8636.6	8302.5	6309.8	1761.0	578.1	497.6	482.9	461.0	419.5	375.6	343.9
45°	9600.0	9080.5	6878.1	1492.7	587.8	473.2	443.9	439.0	400.0	343.9	304.9
47.5°	11256.1	10275.6	7319.5	1319.5	653.7	446.3	412.2	424.4	382.9	312.2	268.3
50°	13790.3	12256.1	7731.7	1307.3	753.7	434.1	382.9	414.6	365.9	280.5	236.6
52.5°	16204.9	14268.3	7995.1	1414.6	841.5	465.9	353.7	402.4	353.7	258.5	214.6
55°	18514.7	15429.3	7524.4	1492.7	924.4	561.0	331.7	382.9	339.0	246.3	207.3
57.5°	21004.9	15946.4	5924.4	1651.2	982.9	641.5	336.6	353.7	319.5	239.0	204.9
60°	21748.8	15285.4	3575.6	1858.5	951.2	665.9	373.2	314.6	292.7	224.4	197.6
62.5°	20592.7	13717.1	2109.8	1692.7	924.4	629.3	426.8	290.2	265.9	204.9	182.9
65°	18863.5	11587.8	1375.6	1429.3	980.5	561.0	453.7	278.0	241.5	185.4	161.0
67.5°	16887.9	9334.2	963.4	843.9	904.9	504.9	382.9	275.6	217.1	156.1	131.7
70°	14224.4	6990.3	678.1	558.5	753.7	448.8	297.6	268.3	190.2	126.8	102.4
72.5°	10990.3	4375.6	504.9	361.0	536.6	365.9	236.6	226.8	153.7	104.9	78.0
75°	8104.9	2495.1	356.1	261.0	353.7	278.0	175.6	161.0	131.7	100.0	70.7
77.5°	4231.7	1248.8	222.0	200.0	202.4	173.2	126.8	117.1	122.0	100.0	65.9
80°	812.2	248.8	134.1	146.3	109.8	109.8	92.7	97.6	107.3	80.5	56.1
82.5°	339.0	53.7	73.2	82.9	68.3	75.6	75.6	78.0	75.6	58.5	41.5
85°	0.0	0.0	31.7	34.1	46.3	46.3	39.0	39.0	39.0	34.1	24.4
87.5°	0.0	0.0	0.0	0.0	2.4	7.3	14.6	17.1	19.5	14.6	9.8
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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1019.5	1014.6	1022.0	1026.8	1031.7	1031.7	1026.8	1022.0	1014.6	1022.0	1014.6
5°	941.5	948.8	961.0	965.9	970.7	961.0	956.1	941.5	929.3	931.7	926.8
7.5°	880.5	887.8	902.4	912.2	912.2	907.3	892.7	878.1	858.5	858.5	856.1
10°	824.4	834.1	851.2	863.4	868.3	863.4	848.8	829.3	812.2	812.2	804.9
12.5°	778.1	790.2	809.8	826.8	831.7	826.8	812.2	792.7	773.2	773.2	768.3
15°	739.0	753.7	775.6	795.1	802.4	795.1	778.1	753.7	734.1	736.6	729.3
17.5°	702.4	714.6	743.9	765.9	773.2	765.9	743.9	712.2	692.7	697.6	692.7
20°	661.0	675.6	704.9	729.3	736.6	729.3	704.9	670.7	651.2	651.2	653.7
22.5°	617.1	631.7	661.0	678.1	687.8	680.5	656.1	624.4	604.9	604.9	607.3
25°	578.1	585.4	607.3	624.4	626.8	619.5	600.0	575.6	561.0	568.3	570.7
27.5°	541.5	541.5	551.2	561.0	558.5	551.2	543.9	524.4	522.0	529.3	536.6
30°	502.4	490.2	485.4	478.1	475.6	473.2	480.5	480.5	485.4	495.1	502.4
32.5°	468.3	443.9	422.0	400.0	387.8	397.6	417.1	434.1	451.2	465.9	473.2
35°	429.3	390.2	353.7	324.4	304.9	319.5	351.2	382.9	412.2	431.7	443.9
37.5°	390.2	334.1	290.2	253.7	239.0	251.2	285.4	329.3	373.2	397.6	414.6
40°	348.8	278.0	226.8	197.6	182.9	195.1	229.3	273.2	331.7	363.4	385.4
42.5°	307.3	229.3	182.9	153.7	146.3	153.7	180.5	224.4	287.8	326.8	356.1
45°	265.9	190.2	146.3	124.4	117.1	124.4	146.3	182.9	246.3	290.2	324.4
47.5°	229.3	161.0	122.0	102.4	97.6	104.9	122.0	153.7	207.3	251.2	290.2
50°	200.0	141.5	104.9	87.8	82.9	90.2	104.9	129.3	175.6	214.6	256.1
52.5°	180.5	131.7	92.7	75.6	73.2	78.0	90.2	109.8	148.8	182.9	222.0
55°	175.6	131.7	85.4	68.3	65.9	70.7	80.5	95.1	129.3	158.5	192.7
57.5°	180.5	141.5	80.5	58.5	56.1	61.0	70.7	82.9	112.2	136.6	168.3
60°	180.5	143.9	70.7	46.3	43.9	48.8	58.5	73.2	100.0	119.5	146.3
62.5°	163.4	131.7	58.5	36.6	31.7	36.6	48.8	61.0	87.8	107.3	129.3
65°	141.5	112.2	48.8	26.8	22.0	26.8	39.0	51.2	75.6	92.7	117.1
67.5°	114.6	85.4	36.6	19.5	14.6	19.5	29.3	41.5	63.4	80.5	104.9
70°	85.4	61.0	29.3	17.1	14.6	17.1	26.8	39.0	56.1	73.2	97.6
72.5°	63.4	41.5	24.4	17.1	12.2	17.1	24.4	36.6	53.7	70.7	92.7
75°	53.7	34.1	22.0	14.6	12.2	14.6	22.0	34.1	48.8	65.9	87.8
77.5°	51.2	31.7	19.5	12.2	9.8	12.2	19.5	29.3	43.9	61.0	85.4
80°	43.9	26.8	17.1	9.8	7.3	9.8	17.1	24.4	34.1	46.3	65.9
82.5°	34.1	22.0	12.2	4.9	2.4	4.9	12.2	14.6	22.0	26.8	39.0
85°	22.0	12.2	4.9	0.0	0.0	0.0	4.9	9.8	9.8	12.2	19.5
87.5°	9.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	7.3
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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1029.3	1031.7	1036.6	1043.9	1061.0	1075.6	1090.2	1109.8	1119.5	1119.5
5°	931.7	934.1	936.6	946.3	970.7	990.2	1022.0	1061.0	1080.5	1085.4
7.5°	856.1	861.0	865.9	873.2	897.6	924.4	965.9	1039.0	1075.6	1082.9
10°	812.2	819.5	829.3	843.9	865.9	895.1	965.9	1097.6	1158.5	1170.7
12.5°	778.1	790.2	800.0	817.1	843.9	890.2	1031.7	1263.4	1370.7	1400.0
15°	743.9	758.5	773.2	790.2	819.5	907.3	1158.5	1561.0	1739.0	1761.0
17.5°	709.8	726.8	746.3	765.9	802.4	948.8	1358.5	1973.2	2222.0	2270.7
20°	670.7	692.7	719.5	743.9	785.4	1014.6	1636.6	2463.4	2775.6	2880.5
22.5°	629.3	656.1	687.8	719.5	765.9	1095.1	1973.2	2990.3	3426.8	3495.1
25°	595.1	622.0	651.2	682.9	734.1	1192.7	2380.5	3643.9	4041.5	4107.3
27.5°	563.4	590.2	617.1	646.3	702.4	1319.5	2870.7	4339.0	4753.7	4822.0
30°	529.3	561.0	587.8	617.1	673.2	1475.6	3436.6	5109.8	5502.5	5565.9
32.5°	500.0	531.7	558.5	587.8	651.2	1646.3	4031.7	5792.7	6112.2	6112.2
35°	475.6	509.8	529.3	568.3	634.1	1756.1	4595.1	6443.9	6685.4	6675.6
37.5°	448.8	490.2	504.9	531.7	612.2	1768.3	5124.4	7131.7	7309.8	7246.4
40°	422.0	465.9	487.8	502.4	587.8	1668.3	5704.9	7763.4	7914.7	7831.7
42.5°	397.6	431.7	463.4	480.5	573.2	1492.7	6170.7	8439.0	8619.5	8546.4
45°	373.2	402.4	422.0	453.7	582.9	1370.7	6570.7	9226.9	9543.9	9490.3
47.5°	348.8	373.2	385.4	434.1	648.8	1314.6	6814.7	10446.4	11043.9	11000.0
50°	322.0	351.2	351.2	429.3	746.3	1334.2	7026.8	12212.2	13136.6	13122.0
52.5°	295.1	326.8	322.0	465.9	822.0	1424.4	7268.3	13770.8	15378.1	15512.2
55°	268.3	297.6	302.4	539.0	865.9	1502.4	6334.2	14426.9	17292.7	17763.5
57.5°	239.0	256.1	314.6	595.1	851.2	1729.3	4339.0	14546.4	18514.7	19524.4
60°	207.3	222.0	356.1	582.9	804.9	1597.6	2731.7	13473.2	18341.5	19622.0
62.5°	180.5	204.9	375.6	514.6	819.5	1385.4	1741.5	11483.0	16690.3	18151.3
65°	158.5	197.6	341.5	465.9	829.3	939.0	1175.6	9341.5	15078.1	16468.3
67.5°	141.5	219.5	280.5	414.6	712.2	661.0	807.3	7258.6	12678.1	13924.4
70°	129.3	224.4	229.3	356.1	551.2	424.4	531.7	4885.4	8739.0	10163.4
72.5°	117.1	165.9	173.2	285.4	356.1	258.5	343.9	2795.1	6370.7	7341.5
75°	112.2	112.2	119.5	185.4	197.6	187.8	222.0	1668.3	4568.3	5278.1
77.5°	104.9	85.4	75.6	119.5	107.3	134.1	131.7	741.5	1980.5	2141.5
80°	82.9	61.0	51.2	75.6	73.2	90.2	78.0	61.0	90.2	87.8
82.5°	51.2	39.0	36.6	46.3	41.5	46.3	36.6	9.8	9.8	9.8
85°	24.4	22.0	19.5	19.5	22.0	19.5	14.6	4.9	2.4	2.4
87.5°	12.2	12.2	9.8	7.3	9.8	9.8	7.3	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

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