

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: P643490

Luminaire Tested: GWS-SA6F-722-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643490
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-SAGF-722-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22751.3 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

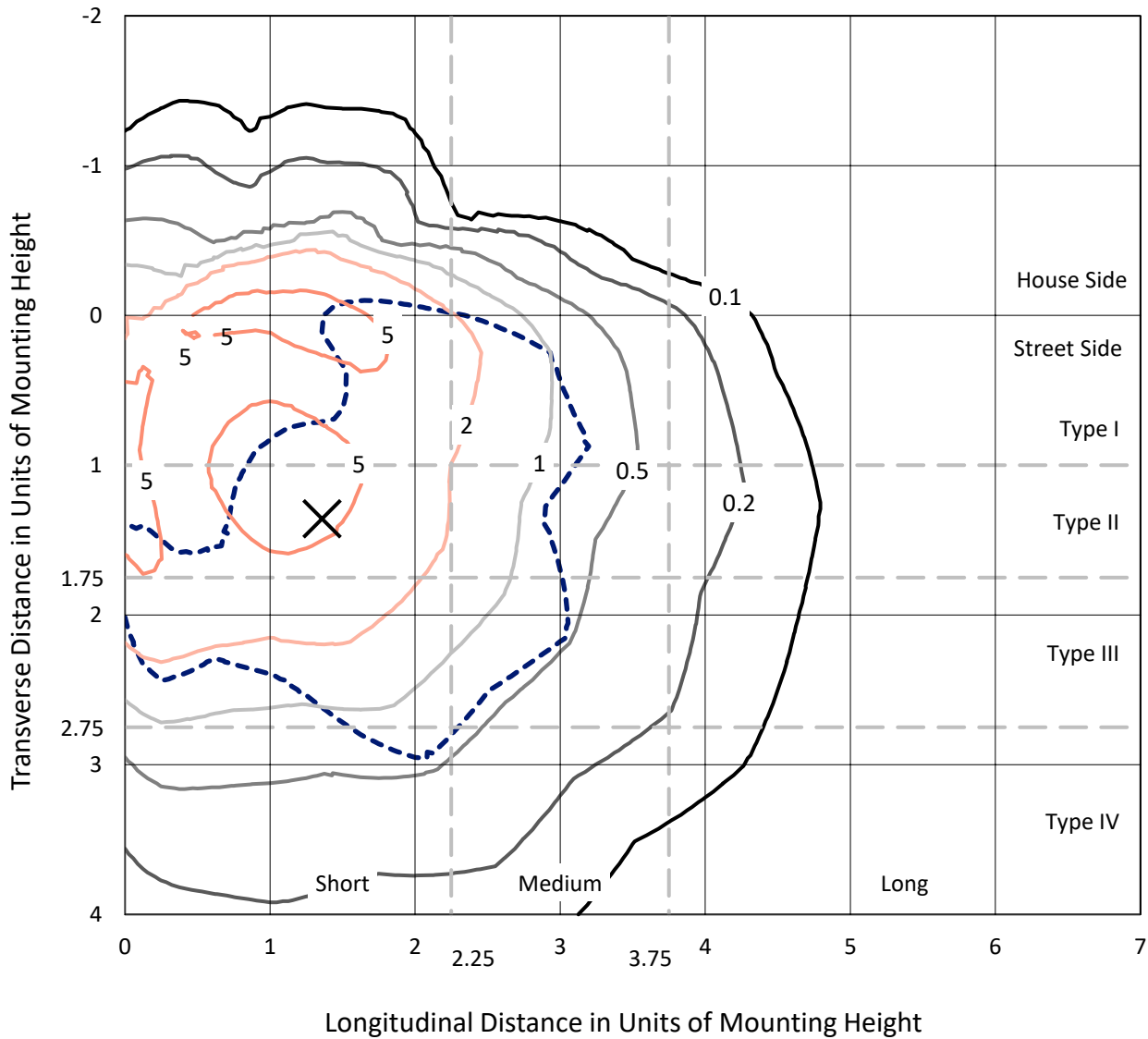
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

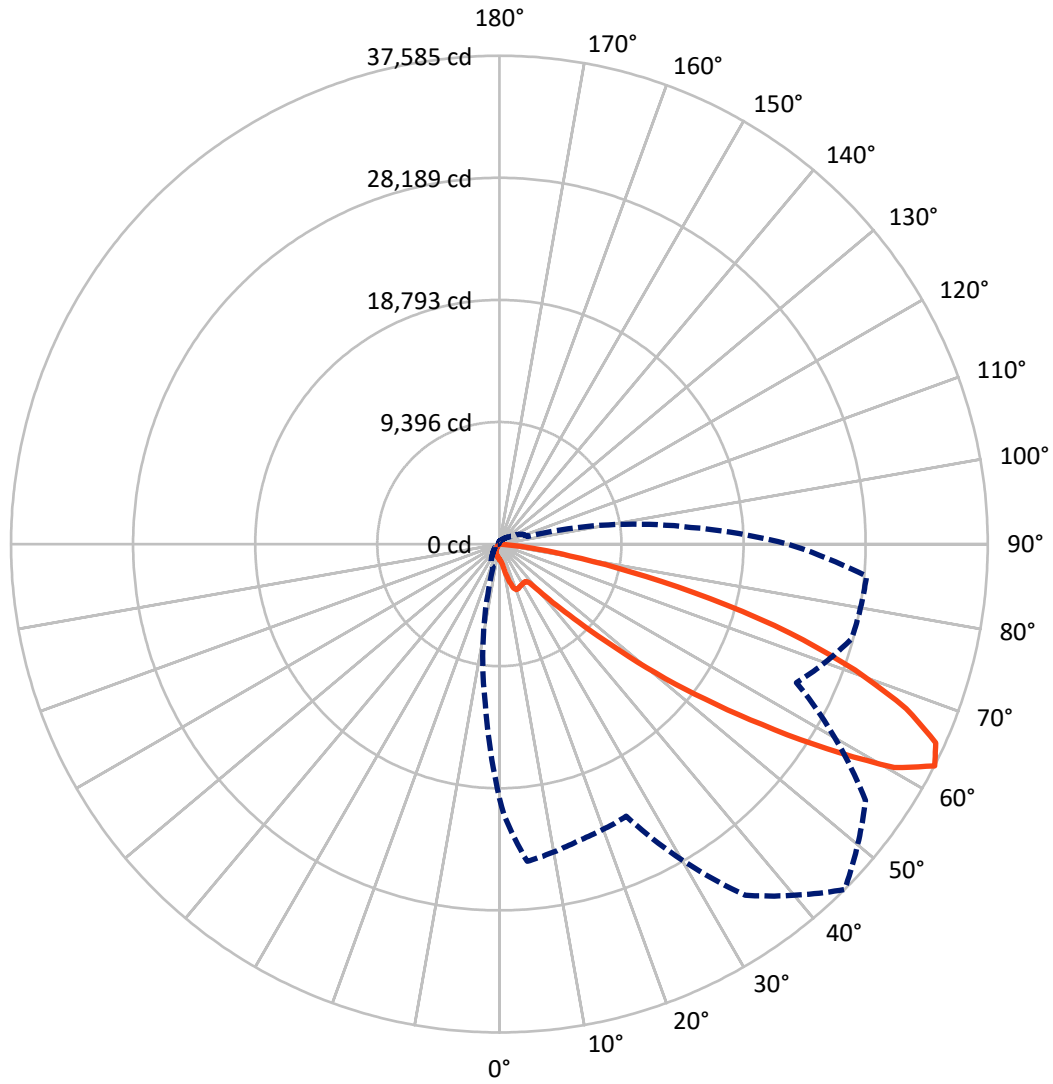
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	2807.5	0.0	2807.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19943.8	0.0	19943.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	22751.3	0.0	22751.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	0.5
10°-20°	396.7	1.7
20°-30°	862.3	3.8
30°-40°	1415.3	6.2
40°-50°	2601.8	11.4
50°-60°	5587.4	24.6
60°-70°	7504.7	33.0
70°-80°	3907.8	17.2
80°-90°	370.5	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°	22751.3	100.0
0°-180°	22751.3	100.0

Coefficient of Utilization



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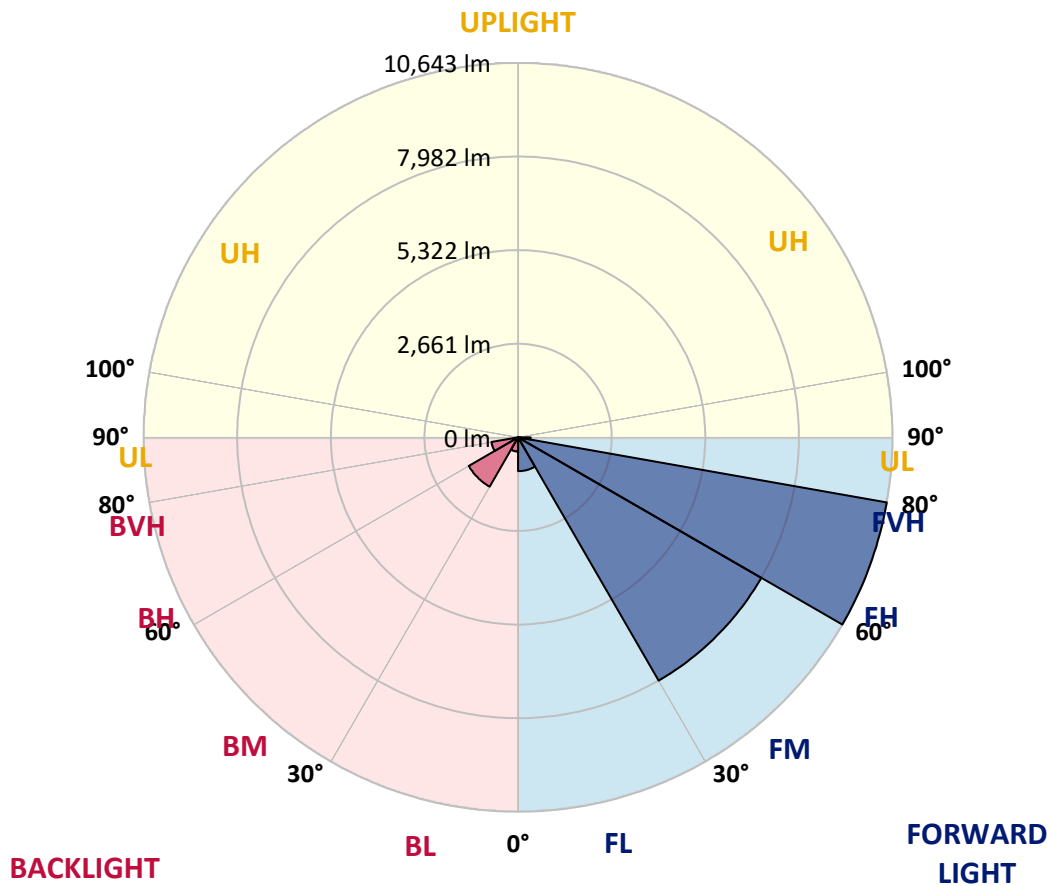
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.1	4.2			
FM (30°-60°)	7985.4	35.1			
FH (60°-80°)	10643.2	46.8			G4/12000
FVH (80°-90°)	354.0	1.6			G3/500
BL (0°-30°)	402.7	1.8	B1/500		
BM (30°-60°)	1619.0	7.1	B2/2500		
BH (60°-80°)	769.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	16.5	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°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6
2.5°	1206.2	1211.5	1216.8	1235.2	1248.3	1258.8	1261.4	1253.5	1235.2	1216.8	1190.5
5°	1169.5	1174.7	1193.1	1243.0	1293.0	1332.4	1345.5	1337.6	1293.0	1235.2	1174.7
7.5°	1166.8	1177.3	1222.0	1327.1	1434.9	1516.3	1537.4	1519.0	1434.9	1319.2	1195.7
10°	1261.4	1279.8	1345.5	1534.7	1731.8	1876.4	1934.2	1855.4	1721.3	1511.1	1308.7
12.5°	1508.5	1540.0	1666.1	1942.1	2246.9	2438.8	2517.6	2420.4	2210.1	1905.3	1584.7
15°	1897.4	1944.7	2133.9	2546.5	2906.5	3077.4	3103.6	3048.5	2804.1	2467.7	2036.7
17.5°	2446.7	2515.0	2809.3	3229.8	3490.0	3550.4	3542.5	3484.7	3306.0	3074.7	2667.4
20°	3103.6	3185.1	3474.2	3821.1	3847.4	3776.4	3737.0	3702.8	3642.4	3603.0	3285.0
22.5°	3765.9	3865.8	4168.0	4254.7	4018.2	3813.2	3716.0	3742.2	3831.6	4026.1	3897.3
25°	4425.5	4520.1	4803.9	4570.1	4097.0	3755.4	3631.9	3694.9	3907.8	4328.3	4493.8
27.5°	5195.5	5266.5	5434.7	4785.6	4110.2	3708.1	3587.2	3684.4	3944.6	4517.5	5148.2
30°	5997.1	6039.1	5957.6	4843.4	4065.5	3637.1	3542.5	3684.4	4007.7	4643.6	5639.6
32.5°	6585.7	6593.6	6328.2	4848.6	4041.8	3579.3	3500.5	3668.7	4068.1	4748.8	6115.3
35°	7192.8	7153.4	6683.0	4927.5	4104.9	3600.3	3532.0	3713.3	4162.7	4872.3	6533.2
37.5°	7807.7	7736.8	7079.8	5056.2	4267.8	3829.0	3786.9	3942.0	4315.1	5043.1	6993.1
40°	8438.4	8341.2	7492.4	5250.7	4630.5	4606.9	4751.4	4733.0	4733.0	5261.2	7466.1
42.5°	9208.4	9095.4	8102.1	5800.0	5476.7	6004.9	6399.1	6154.7	5702.7	5763.2	8081.0
45°	10225.5	10128.2	9158.5	6851.1	6803.8	8018.0	8548.8	8065.3	6940.5	6922.1	9108.6
47.5°	11852.2	11833.8	10843.0	8070.5	8427.9	10580.3	11605.2	10674.9	8351.7	8149.4	11053.3
50°	14138.5	14083.3	12942.8	9500.2	10359.5	13754.9	15583.9	14033.4	10057.3	9581.6	13657.6
52.5°	16714.0	16771.8	15883.5	11061.2	12412.0	17286.9	19833.4	17880.8	11910.0	11402.8	16934.7
55°	19139.6	19470.7	19236.8	12887.6	14417.1	21186.8	24500.7	22101.3	14204.2	13786.4	20608.6
57.5°	21037.0	21969.9	23609.8	15541.9	16774.4	25749.0	29712.0	26676.6	16882.1	17657.4	25609.7
60°	21142.1	22377.3	26185.2	21094.8	19807.1	29662.0	34915.4	31146.8	21092.2	24230.0	29528.0
62.5°	19557.4	20881.9	24508.5	23617.7	23110.5	32991.7	37585.4	34405.5	25233.9	28080.0	28366.4
65°	17744.1	19081.8	22637.4	20755.8	22726.8	32849.8	36907.4	34481.7	25609.7	25462.5	26287.7
67.5°	15003.1	16204.1	19423.4	18372.2	20947.6	31265.1	33774.8	32308.4	23594.0	23814.8	24182.7
70°	10950.8	12107.1	15095.1	15147.7	18293.4	28408.5	29020.8	28818.4	21728.1	21962.0	20910.8
72.5°	7910.2	8885.2	11463.3	12422.5	14603.7	23822.6	23399.5	24180.1	18642.9	19560.1	16795.4
75°	5687.0	6417.5	8409.5	10806.3	11576.3	17691.6	16750.7	18727.0	14958.5	16842.7	12627.4
77.5°	2307.4	2564.9	3308.6	7279.5	7608.0	11902.1	10254.4	13602.4	10664.3	11066.4	6120.6
80°	94.6	105.1	136.7	3758.0	5216.5	6696.1	5487.2	7271.6	7043.0	4457.1	1445.4
82.5°	10.5	10.5	23.7	1082.7	2283.7	3694.9	2585.9	4189.0	3566.2	1889.5	657.0
85°	2.6	2.6	5.3	123.5	536.1	591.3	349.5	1285.1	1658.3	772.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	23.7	26.3	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°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6
2.5°	1190.5	1177.3	1161.6	1145.8	1137.9	1116.9	1109.0	1103.8	1098.5	1101.1	1101.1
5°	1151.1	1122.1	1088.0	1053.8	1035.4	1014.4	1003.9	998.6	1001.3	1011.8	1011.8
7.5°	1145.8	1090.6	1017.0	972.4	951.3	935.6	925.0	919.8	922.4	935.6	940.8
10°	1232.5	1135.3	1003.9	927.7	904.0	888.3	877.7	869.9	864.6	875.1	877.7
12.5°	1419.1	1285.1	1067.0	922.4	880.4	859.3	851.5	835.7	827.8	833.1	835.7
15°	1805.4	1574.2	1193.1	943.4	859.3	835.7	822.6	809.4	796.3	793.7	796.3
17.5°	2310.0	1978.9	1384.9	993.4	843.6	814.7	796.3	777.9	759.5	756.9	754.2
20°	2935.5	2475.6	1653.0	1072.2	830.4	796.3	770.0	743.7	720.1	712.2	712.2
22.5°	3505.7	3074.7	1997.3	1169.5	812.0	770.0	738.5	706.9	680.6	667.5	664.9
25°	4202.1	3710.7	2409.9	1282.5	785.8	735.8	701.7	670.1	643.9	628.1	622.8
27.5°	4903.8	4380.8	2877.6	1429.6	754.2	701.7	670.1	641.2	612.3	593.9	588.7
30°	5584.5	5103.5	3403.2	1613.6	730.6	667.5	641.2	612.3	586.0	557.1	549.2
32.5°	6315.0	5842.0	3991.9	1818.6	712.2	643.9	614.9	588.7	554.5	528.2	515.1
35°	7019.3	6604.1	4641.0	2018.3	693.8	622.8	591.3	565.0	528.2	499.3	480.9
37.5°	7728.9	7379.4	5319.0	2139.2	667.5	593.9	565.0	544.0	501.9	467.8	446.8
40°	8480.5	8180.9	6052.2	2089.2	643.9	562.4	546.6	523.0	475.7	436.2	410.0
42.5°	9305.7	8945.6	6798.6	1897.4	622.8	536.1	520.3	496.7	452.0	404.7	370.5
45°	10343.7	9784.0	7410.9	1608.3	633.3	509.8	478.3	473.0	431.0	370.5	328.5
47.5°	12128.1	11071.7	7886.6	1421.7	704.3	480.9	444.1	457.3	412.6	336.4	289.1
50°	14858.6	13205.6	8330.7	1408.6	812.0	467.8	412.6	446.8	394.2	302.2	254.9
52.5°	17460.3	15373.7	8614.5	1524.2	906.7	501.9	381.1	433.6	381.1	278.6	231.3
55°	19949.0	16624.6	8107.3	1608.3	996.0	604.4	357.4	412.6	365.3	265.4	223.4
57.5°	22632.2	17181.7	6383.4	1779.1	1059.1	691.2	362.7	381.1	344.3	257.5	220.8
60°	23433.7	16469.6	3852.6	2002.5	1024.9	717.4	402.1	339.0	315.4	241.8	212.9
62.5°	22188.0	14779.8	2273.2	1823.8	996.0	678.0	459.9	312.7	286.4	220.8	197.1
65°	20324.8	12485.5	1482.2	1540.0	1056.4	604.4	488.8	299.6	260.2	199.7	173.4
67.5°	18196.1	10057.3	1038.1	909.3	975.0	544.0	412.6	297.0	233.9	168.2	141.9
70°	15326.4	7531.8	730.6	601.8	812.0	483.5	320.6	289.1	205.0	136.7	110.4
72.5°	11841.7	4714.6	544.0	388.9	578.2	394.2	254.9	244.4	165.6	113.0	84.1
75°	8732.8	2688.4	383.7	281.2	381.1	299.6	189.2	173.4	141.9	107.7	76.2
77.5°	4559.5	1345.5	239.1	215.5	218.1	186.6	136.7	126.1	131.4	107.7	71.0
80°	875.1	268.1	144.5	157.7	118.3	118.3	99.9	105.1	115.6	86.7	60.4
82.5°	365.3	57.8	78.8	89.4	73.6	81.5	81.5	84.1	81.5	63.1	44.7
85°	0.0	0.0	34.2	36.8	49.9	49.9	42.0	42.0	42.0	36.8	26.3
87.5°	0.0	0.0	0.0	0.0	2.6	7.9	15.8	18.4	21.0	15.8	10.5
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°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6
2.5°	1098.5	1093.2	1101.1	1106.4	1111.6	1111.6	1106.4	1101.1	1093.2	1101.1	1093.2
5°	1014.4	1022.3	1035.4	1040.7	1045.9	1035.4	1030.2	1014.4	1001.3	1003.9	998.6
7.5°	948.7	956.6	972.4	982.9	982.9	977.6	961.8	946.1	925.0	925.0	922.4
10°	888.3	898.8	917.2	930.3	935.6	930.3	914.5	893.5	875.1	875.1	867.2
12.5°	838.3	851.5	872.5	890.9	896.1	890.9	875.1	854.1	833.1	833.1	827.8
15°	796.3	812.0	835.7	856.7	864.6	856.7	838.3	812.0	791.0	793.7	785.8
17.5°	756.9	770.0	801.5	825.2	833.1	825.2	801.5	767.4	746.3	751.6	746.3
20°	712.2	728.0	759.5	785.8	793.7	785.8	759.5	722.7	701.7	701.7	704.3
22.5°	664.9	680.6	712.2	730.6	741.1	733.2	706.9	672.8	651.7	651.7	654.4
25°	622.8	630.7	654.4	672.8	675.4	667.5	646.5	620.2	604.4	612.3	614.9
27.5°	583.4	583.4	593.9	604.4	601.8	593.9	586.0	565.0	562.4	570.3	578.2
30°	541.4	528.2	523.0	515.1	512.5	509.8	517.7	517.7	523.0	533.5	541.4
32.5°	504.6	478.3	454.6	431.0	417.8	428.4	449.4	467.8	486.2	501.9	509.8
35°	462.5	420.5	381.1	349.5	328.5	344.3	378.4	412.6	444.1	465.2	478.3
37.5°	420.5	360.0	312.7	273.3	257.5	270.7	307.5	354.8	402.1	428.4	446.8
40°	375.8	299.6	244.4	212.9	197.1	210.2	247.0	294.3	357.4	391.6	415.2
42.5°	331.1	247.0	197.1	165.6	157.7	165.6	194.5	241.8	310.1	352.1	383.7
45°	286.4	205.0	157.7	134.0	126.1	134.0	157.7	197.1	265.4	312.7	349.5
47.5°	247.0	173.4	131.4	110.4	105.1	113.0	131.4	165.6	223.4	270.7	312.7
50°	215.5	152.4	113.0	94.6	89.4	97.2	113.0	139.3	189.2	231.3	275.9
52.5°	194.5	141.9	99.9	81.5	78.8	84.1	97.2	118.3	160.3	197.1	239.1
55°	189.2	141.9	92.0	73.6	71.0	76.2	86.7	102.5	139.3	170.8	207.6
57.5°	194.5	152.4	86.7	63.1	60.4	65.7	76.2	89.4	120.9	147.2	181.3
60°	194.5	155.1	76.2	49.9	47.3	52.6	63.1	78.8	107.7	128.8	157.7
62.5°	176.1	141.9	63.1	39.4	34.2	39.4	52.6	65.7	94.6	115.6	139.3
65°	152.4	120.9	52.6	28.9	23.7	28.9	42.0	55.2	81.5	99.9	126.1
67.5°	123.5	92.0	39.4	21.0	15.8	21.0	31.5	44.7	68.3	86.7	113.0
70°	92.0	65.7	31.5	18.4	15.8	18.4	28.9	42.0	60.4	78.8	105.1
72.5°	68.3	44.7	26.3	18.4	13.1	18.4	26.3	39.4	57.8	76.2	99.9
75°	57.8	36.8	23.7	15.8	13.1	15.8	23.7	36.8	52.6	71.0	94.6
77.5°	55.2	34.2	21.0	13.1	10.5	13.1	21.0	31.5	47.3	65.7	92.0
80°	47.3	28.9	18.4	10.5	7.9	10.5	18.4	26.3	36.8	49.9	71.0
82.5°	36.8	23.7	13.1	5.3	2.6	5.3	13.1	15.8	23.7	28.9	42.0
85°	23.7	13.1	5.3	0.0	0.0	0.0	5.3	10.5	10.5	13.1	21.0
87.5°	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3	7.9
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°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6
2.5°	1109.0	1111.6	1116.9	1124.8	1143.2	1158.9	1174.7	1195.7	1206.2	1206.2
5°	1003.9	1006.5	1009.1	1019.7	1045.9	1067.0	1101.1	1143.2	1164.2	1169.5
7.5°	922.4	927.7	932.9	940.8	967.1	996.0	1040.7	1119.5	1158.9	1166.8
10°	875.1	883.0	893.5	909.3	932.9	964.5	1040.7	1182.6	1248.3	1261.4
12.5°	838.3	851.5	862.0	880.4	909.3	959.2	1111.6	1361.3	1476.9	1508.5
15°	801.5	817.3	833.1	851.5	883.0	977.6	1248.3	1681.9	1873.8	1897.4
17.5°	764.7	783.1	804.2	825.2	864.6	1022.3	1463.8	2126.0	2394.1	2446.7
20°	722.7	746.3	775.3	801.5	846.2	1093.2	1763.4	2654.3	2990.6	3103.6
22.5°	678.0	706.9	741.1	775.3	825.2	1180.0	2126.0	3221.9	3692.3	3765.9
25°	641.2	670.1	701.7	735.8	791.0	1285.1	2564.9	3926.2	4354.6	4425.5
27.5°	607.1	636.0	664.9	696.4	756.9	1421.7	3093.1	4675.2	5121.9	5195.5
30°	570.3	604.4	633.3	664.9	725.3	1589.9	3702.8	5505.6	5928.7	5997.1
32.5°	538.7	572.9	601.8	633.3	701.7	1773.9	4344.1	6241.5	6585.7	6585.7
35°	512.5	549.2	570.3	612.3	683.3	1892.1	4951.1	6943.1	7203.3	7192.8
37.5°	483.5	528.2	544.0	572.9	659.6	1905.3	5521.4	7684.2	7876.1	7807.7
40°	454.6	501.9	525.6	541.4	633.3	1797.5	6146.8	8364.9	8527.8	8438.4
42.5°	428.4	465.2	499.3	517.7	617.6	1608.3	6648.8	9092.8	9287.3	9208.4
45°	402.1	433.6	454.6	488.8	628.1	1476.9	7079.8	9941.7	10283.3	10225.5
47.5°	375.8	402.1	415.2	467.8	699.0	1416.5	7342.6	11255.6	11899.5	11852.2
50°	346.9	378.4	378.4	462.5	804.2	1437.5	7571.2	13158.3	14154.3	14138.5
52.5°	318.0	352.1	346.9	501.9	885.6	1534.7	7831.4	14837.6	16569.4	16714.0
55°	289.1	320.6	325.9	580.8	932.9	1618.8	6824.9	15544.5	18632.4	19139.6
57.5°	257.5	275.9	339.0	641.2	917.2	1863.2	4675.2	15673.3	19949.0	21037.0
60°	223.4	239.1	383.7	628.1	867.2	1721.3	2943.3	14517.0	19762.4	21142.1
62.5°	194.5	220.8	404.7	554.5	883.0	1492.7	1876.4	12372.5	17983.3	19557.4
65°	170.8	212.9	367.9	501.9	893.5	1011.8	1266.7	10065.2	16246.2	17744.1
67.5°	152.4	236.5	302.2	446.8	767.4	712.2	869.9	7820.9	13660.2	15003.1
70°	139.3	241.8	247.0	383.7	593.9	457.3	572.9	5263.8	9416.1	10950.8
72.5°	126.1	178.7	186.6	307.5	383.7	278.6	370.5	3011.7	6864.3	7910.2
75°	120.9	120.9	128.8	199.7	212.9	202.4	239.1	1797.5	4922.2	5687.0
77.5°	113.0	92.0	81.5	128.8	115.6	144.5	141.9	798.9	2133.9	2307.4
80°	89.4	65.7	55.2	81.5	78.8	97.2	84.1	65.7	97.2	94.6
82.5°	55.2	42.0	39.4	49.9	44.7	49.9	39.4	10.5	10.5	10.5
85°	26.3	23.7	21.0	21.0	23.7	21.0	15.8	5.3	2.6	2.6
87.5°	13.1	13.1	10.5	7.9	10.5	10.5	7.9	2.6	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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