

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: P631333

Luminaire Tested: GWS-SA1F-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631333
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-SA1F-740-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4494.7 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

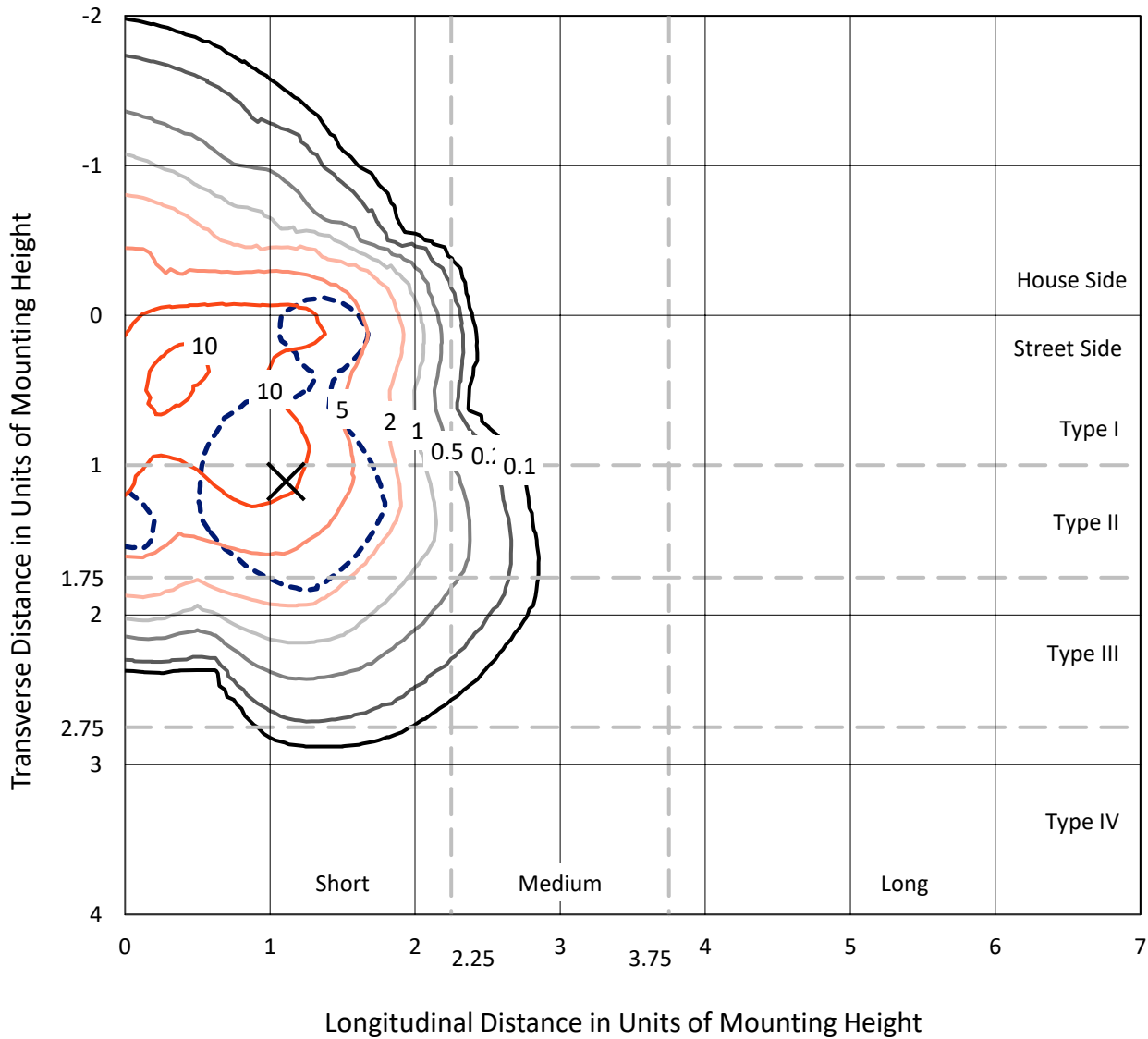
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

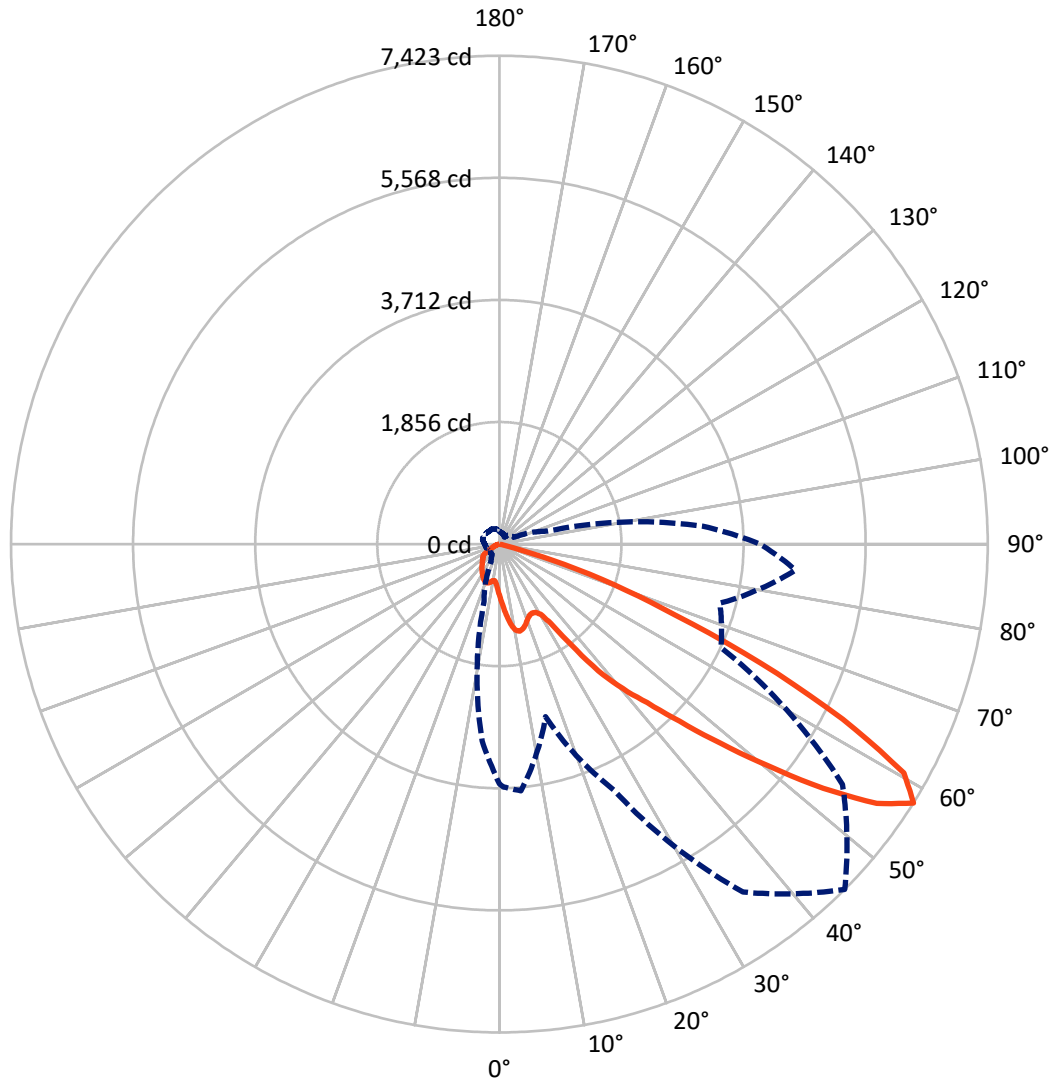
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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	1006.5	0.0	1006.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	3488.2	0.0	3488.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	4494.7	0.0	4494.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.7
10°-20°	251.4	5.6
20°-30°	408.4	9.1
30°-40°	631.0	14.0
40°-50°	1011.9	22.5
50°-60°	1383.0	30.8
60°-70°	669.8	14.9
70°-80°	61.3	1.4
80°-90°	0.2	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°	4494.7	100.0
0°-180°	4494.7	100.0

Coefficient of Utilization



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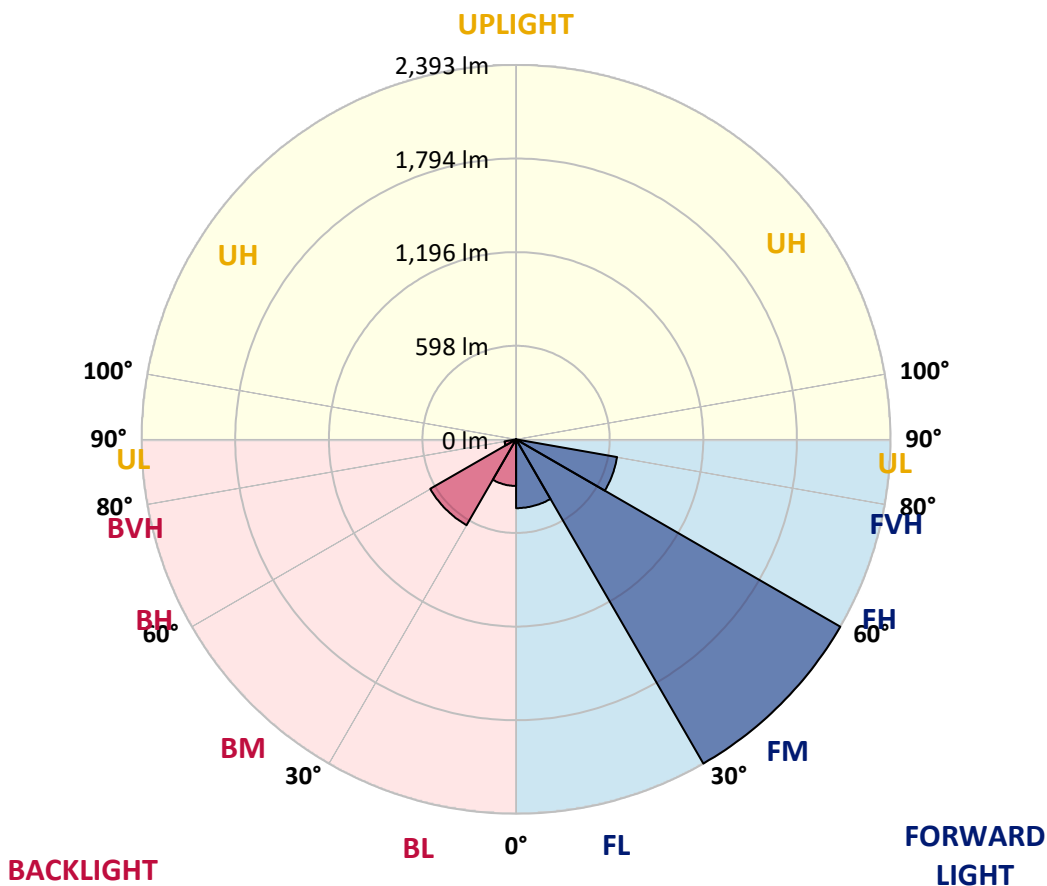
CATALOG NUMBER: GWS-SA1F-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.7	9.8			
FM (30°-60°)	2392.6	53.2			
FH (60°-80°)	655.7	14.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	297.8	6.6	B1/500		
BM (30°-60°)	633.2	14.1	B1/1000		
BH (60°-80°)	75.4	1.7	B0/110		G0/110
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: B1-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	855.8	861.3	870.3	889.6	906.0	916.8	921.7	920.4	913.8	909.0	899.3
5°	947.6	947.6	965.1	1009.2	1043.1	1064.2	1075.1	1068.4	1055.1	1034.0	1001.4
7.5°	1028.0	1031.0	1060.6	1123.4	1174.7	1204.9	1222.4	1218.8	1195.3	1154.8	1089.6
10°	1090.8	1094.4	1133.7	1210.4	1270.8	1301.6	1327.5	1329.9	1304.0	1250.2	1175.3
12.5°	1151.8	1155.4	1196.5	1270.1	1323.3	1336.0	1358.9	1368.0	1361.3	1323.3	1245.4
15°	1217.6	1226.1	1261.1	1316.0	1338.4	1323.3	1338.4	1354.7	1377.0	1373.4	1303.4
17.5°	1282.2	1288.3	1323.9	1343.2	1318.5	1279.2	1286.5	1305.8	1356.5	1406.0	1360.7
20°	1342.0	1350.5	1380.1	1354.7	1279.8	1218.8	1219.4	1244.8	1322.1	1426.0	1419.3
22.5°	1404.8	1417.5	1438.7	1367.4	1244.2	1171.1	1174.1	1197.1	1294.9	1444.7	1485.8
25°	1487.0	1499.1	1512.9	1398.8	1232.7	1147.5	1159.0	1180.2	1294.9	1476.7	1567.9
27.5°	1598.1	1606.6	1607.2	1457.4	1252.6	1151.2	1175.3	1199.5	1333.6	1540.7	1677.8
30°	1737.6	1750.9	1733.4	1548.6	1314.8	1199.5	1235.1	1265.3	1416.9	1648.8	1839.7
32.5°	1907.3	1926.1	1902.5	1683.9	1444.7	1366.2	1430.8	1448.3	1549.8	1805.3	2023.3
35°	2106.6	2122.3	2097.0	1871.1	1747.9	1762.4	1879.6	1857.2	1816.7	1997.9	2237.7
37.5°	2325.3	2339.8	2290.9	2155.0	2196.0	2258.8	2446.1	2369.4	2238.9	2246.2	2470.2
40°	2525.8	2541.5	2464.8	2463.6	2548.1	2662.9	2888.8	2783.1	2605.5	2571.1	2688.3
42.5°	2733.6	2744.4	2675.0	2627.9	2819.9	3056.1	3295.3	3152.7	2848.3	2810.9	2961.3
45°	3030.1	3053.1	2929.3	2708.8	3064.5	3508.5	3841.8	3563.4	3013.8	2983.6	3379.2
47.5°	3466.2	3483.1	3230.6	2759.5	3292.2	4072.0	4524.9	4096.1	3159.4	3090.5	3950.6
50°	3826.7	3838.2	3507.9	2815.1	3534.4	4679.6	5303.5	4727.9	3323.0	3267.5	4483.9
52.5°	4092.5	4136.0	3872.0	2929.3	3852.7	5394.0	6165.3	5476.2	3578.5	3609.3	4926.0
55°	4147.5	4206.6	4120.9	2999.3	4133.0	6121.8	6961.3	6146.0	3833.4	3868.4	5074.5
57.5°	3645.0	3692.1	3763.3	2716.7	4126.3	6455.2	7423.4	6368.3	3717.4	3469.2	4518.3
60°	2730.5	2763.2	2892.4	2076.4	3794.7	6160.5	7063.4	5990.2	3250.6	2647.2	3442.6
62.5°	1619.2	1633.7	1797.4	1345.0	3149.7	5305.3	5857.9	5168.8	2568.7	1780.5	2108.5
65°	621.5	615.4	740.5	663.8	2316.2	4226.0	4357.0	3940.3	1762.4	816.0	803.9
67.5°	96.0	91.8	123.8	196.3	1670.6	2928.6	2874.9	2839.9	1104.1	190.3	166.1
70°	21.7	21.7	26.6	58.0	1020.7	1720.7	1841.5	1755.7	706.6	40.5	21.7
72.5°	10.3	10.3	12.7	24.8	369.6	709.1	826.2	813.5	229.5	13.3	7.9
75°	3.6	4.2	4.2	5.4	22.3	36.8	84.6	60.4	14.5	0.0	0.0
77.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	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°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	878.2	873.9	858.2	837.1	816.6	798.4	779.7	757.4	741.1	722.3	716.3
5°	976.0	949.4	906.6	861.9	820.8	785.8	751.9	715.7	689.1	662.6	653.5
7.5°	1058.8	1019.5	950.0	883.0	826.8	777.3	728.4	678.9	640.2	608.8	599.1
10°	1133.0	1087.7	994.7	912.0	841.3	784.0	724.8	662.6	612.4	575.0	565.9
12.5°	1197.1	1144.5	1032.8	933.7	847.4	781.5	724.2	674.6	629.3	586.5	575.0
15°	1250.8	1192.8	1064.8	948.2	838.3	751.3	701.2	693.4	689.7	642.6	620.3
17.5°	1303.4	1238.1	1090.8	954.9	812.9	698.2	662.0	697.6	735.6	704.8	676.4
20°	1358.3	1284.0	1117.3	956.1	770.7	638.4	632.4	688.5	736.8	727.2	700.6
22.5°	1423.0	1341.4	1150.6	955.5	717.5	587.7	610.6	671.0	710.3	709.7	688.5
25°	1516.6	1413.9	1195.3	959.1	659.5	548.4	586.5	641.4	673.4	672.2	654.7
27.5°	1616.8	1500.3	1253.2	968.2	610.0	525.5	558.1	600.9	628.7	627.5	612.4
30°	1757.6	1599.9	1308.8	968.8	574.4	513.4	526.7	556.3	582.8	579.8	568.3
32.5°	1928.5	1712.3	1355.3	934.3	552.0	501.9	494.0	509.1	529.7	525.5	522.4
35°	2135.0	1845.7	1395.2	858.8	517.6	478.9	457.8	460.8	475.3	477.7	476.5
37.5°	2370.6	2004.6	1444.7	759.2	471.1	445.7	417.3	414.9	423.4	431.2	437.3
40°	2603.1	2183.3	1511.7	658.3	428.8	403.5	376.3	370.2	373.9	387.7	400.4
42.5°	2864.6	2390.5	1584.2	572.0	399.8	356.9	331.0	319.5	329.8	352.1	367.2
45°	3241.5	2681.0	1654.9	503.1	387.7	315.9	280.8	279.6	291.1	320.1	337.0
47.5°	3770.6	3056.7	1701.4	449.4	387.1	283.9	242.2	249.4	262.7	291.1	310.4
50°	4286.4	3527.2	1650.0	408.3	374.5	262.7	213.2	227.7	241.0	265.7	285.7
52.5°	4597.4	3780.2	1450.1	369.6	335.2	253.1	184.8	210.2	212.6	234.9	256.1
55°	4564.8	3616.6	1110.7	309.8	277.2	239.2	155.2	189.6	190.9	207.8	225.9
57.5°	3962.0	3105.0	762.8	251.3	208.4	197.5	128.0	160.1	171.5	181.8	195.1
60°	2952.8	2265.5	340.0	204.1	132.3	133.5	109.3	120.8	138.3	150.4	161.9
62.5°	1740.0	1303.4	138.3	122.6	73.1	84.0	88.2	88.2	99.1	108.1	115.4
65°	657.7	456.0	56.2	61.6	38.1	39.3	51.9	64.0	72.5	80.3	90.0
67.5°	115.4	79.7	29.0	23.0	22.3	19.9	26.6	41.7	46.5	52.5	56.8
70°	19.3	16.3	12.1	11.5	10.3	10.9	17.5	29.6	32.6	34.4	36.2
72.5°	5.4	4.8	3.6	3.0	2.4	3.0	10.9	23.0	24.2	25.4	27.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	16.3	17.5	18.1	19.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	4.8	6.0	4.8
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°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	712.7	700.6	694.0	690.3	690.3	685.5	680.1	678.3	686.1	686.1	699.4
5°	642.0	632.4	621.5	614.8	604.6	606.4	600.3	599.7	607.6	611.2	625.1
7.5°	593.1	581.0	574.4	570.1	564.7	562.3	556.9	555.0	559.3	565.3	578.6
10°	560.5	558.7	558.1	561.1	561.1	558.1	553.2	550.2	551.4	562.9	578.0
12.5°	568.9	572.6	573.8	578.6	581.0	578.6	575.0	576.2	584.0	605.2	627.5
15°	605.8	602.8	601.6	604.0	605.8	603.4	602.2	611.2	638.4	668.6	694.0
17.5°	645.0	625.7	617.3	617.3	618.5	617.3	618.5	636.0	680.1	710.3	729.0
20°	665.0	629.3	616.0	613.0	615.4	616.0	620.3	640.2	688.5	709.7	713.9
22.5°	658.9	614.2	599.1	596.7	599.1	601.6	605.8	622.7	668.0	678.9	677.0
25°	628.7	584.6	572.6	572.6	578.0	577.4	579.2	591.3	628.7	635.4	632.4
27.5°	590.7	549.0	538.7	544.8	549.6	548.4	549.0	559.3	587.1	588.9	585.9
30°	552.0	515.8	506.1	513.4	520.0	518.8	519.4	529.7	547.2	545.4	541.2
32.5°	512.8	486.2	478.9	483.2	493.4	492.2	494.7	505.5	512.2	504.3	499.5
35°	476.5	462.6	457.2	459.6	467.5	469.3	473.5	480.8	480.8	471.1	462.6
37.5°	442.7	440.9	437.3	434.3	441.5	446.9	453.0	461.4	449.4	435.5	427.6
40°	411.3	419.2	414.3	406.5	410.7	418.6	430.6	437.3	422.8	408.9	395.6
42.5°	382.3	395.6	393.8	384.1	387.7	395.0	408.9	414.3	397.4	381.7	369.0
45°	354.5	373.3	374.5	362.4	366.0	373.3	389.6	391.4	369.6	352.7	343.7
47.5°	330.4	350.9	351.5	342.5	343.7	353.9	369.0	369.6	344.9	329.2	317.7
50°	307.4	331.0	332.8	324.9	326.1	338.2	350.9	348.5	321.9	305.6	295.3
52.5°	279.6	311.6	315.9	312.3	317.1	326.7	334.6	326.1	295.3	279.0	270.0
55°	249.4	291.1	300.2	297.8	303.2	311.0	312.9	307.4	268.8	252.5	244.0
57.5°	214.4	239.8	255.5	250.6	254.9	262.7	268.2	263.9	234.9	222.3	215.0
60°	177.6	194.5	198.1	190.3	186.6	200.5	213.2	207.8	183.0	175.2	166.7
62.5°	129.9	149.2	151.6	141.3	137.1	152.2	163.1	157.6	130.5	122.0	115.4
65°	103.9	122.0	126.8	117.2	114.8	126.2	132.9	119.6	100.3	91.2	84.0
67.5°	68.2	82.7	95.4	94.8	90.0	93.6	88.8	77.9	64.0	59.2	54.4
70°	42.3	50.7	58.6	61.6	61.0	59.8	53.1	45.3	41.1	39.3	36.8
72.5°	32.6	41.1	47.1	48.9	49.5	47.7	42.3	35.0	30.8	28.4	26.6
75°	24.2	30.8	35.6	38.1	39.3	38.1	32.6	27.8	23.6	21.7	19.9
77.5°	8.5	10.3	12.7	13.9	13.3	12.7	11.5	11.5	9.1	8.5	7.2
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°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	714.5	725.4	745.3	763.4	782.7	802.7	824.4	846.8	857.0	855.8
5°	646.2	669.8	702.4	738.1	777.9	820.8	868.5	917.4	938.6	947.6
7.5°	603.4	636.6	679.5	724.8	777.3	838.3	910.2	986.9	1017.7	1028.0
10°	608.8	647.5	683.1	727.2	783.3	862.5	951.9	1043.1	1079.3	1090.8
12.5°	652.9	661.3	671.0	707.2	777.9	880.6	989.9	1098.6	1140.3	1151.8
15°	692.8	653.5	635.4	668.6	758.6	893.3	1028.6	1158.4	1204.3	1217.6
17.5°	694.6	635.4	594.9	620.9	727.2	898.7	1066.6	1219.4	1269.5	1282.2
20°	672.2	615.4	563.5	564.1	684.3	897.5	1098.0	1274.4	1330.5	1342.0
22.5°	639.6	591.9	538.1	519.4	638.4	895.1	1132.4	1333.0	1394.0	1404.8
25°	603.4	561.7	514.0	485.6	592.5	897.5	1180.8	1409.7	1476.7	1487.0
27.5°	564.1	528.5	495.3	472.3	553.8	906.6	1238.7	1507.5	1587.2	1598.1
30°	523.0	496.5	483.2	469.3	529.7	909.0	1301.6	1621.7	1722.5	1737.6
32.5°	482.6	468.1	468.7	471.1	506.7	892.1	1358.9	1748.5	1883.2	1907.3
35°	445.1	440.9	453.0	465.1	473.5	848.6	1409.1	1898.3	2081.9	2106.6
37.5°	413.1	416.7	431.8	443.9	437.3	787.0	1475.5	2085.5	2304.1	2325.3
40°	382.3	391.4	408.9	414.3	409.5	715.1	1555.2	2266.1	2496.8	2525.8
42.5°	353.9	360.6	385.3	386.5	401.6	642.0	1631.9	2460.6	2718.5	2733.6
45°	331.0	329.8	355.1	363.0	411.9	561.1	1706.8	2719.7	3008.4	3030.1
47.5°	308.6	307.4	313.5	349.1	416.1	486.2	1781.1	3099.0	3428.7	3466.2
50°	287.5	289.3	270.6	342.5	393.2	428.8	1814.9	3449.9	3811.0	3826.7
52.5°	268.8	262.1	229.5	320.7	344.3	374.5	1718.9	3609.3	4047.8	4092.5
55°	242.2	205.3	189.0	260.3	271.8	326.7	1407.9	3516.9	4068.3	4147.5
57.5°	207.2	161.3	160.7	192.1	192.1	303.2	901.7	3004.7	3506.0	3645.0
60°	159.4	125.0	132.9	133.5	123.2	221.1	506.1	2176.7	2592.2	2730.5
62.5°	113.5	95.4	100.3	79.7	70.7	110.5	242.8	1253.2	1599.9	1619.2
65°	76.1	64.6	52.5	44.1	43.5	47.1	100.3	453.0	550.8	621.5
67.5°	50.1	39.3	27.8	27.8	31.4	31.4	38.1	74.9	105.1	96.0
70°	32.6	27.2	17.5	16.9	20.5	20.5	19.3	20.5	21.7	21.7
72.5°	24.2	20.5	10.3	9.1	11.5	12.1	10.9	10.3	10.3	10.3
75°	18.1	14.5	6.0	4.2	5.4	7.2	6.0	4.2	4.2	3.6
77.5°	7.2	5.4	2.4	1.8	3.0	4.2	3.6	1.8	1.2	1.2
80°	0.6	1.2	1.2	1.2	1.8	2.4	3.0	1.2	0.6	0.6
82.5°	0.0	0.6	0.6	0.6	1.2	1.8	2.4	1.2	0.6	0.6
85°	0.0	0.0	0.0	0.0	1.2	1.8	1.2	0.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.8	1.2	0.6	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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