

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: P631443

Luminaire Tested: GWS-SA1F-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631443
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4534.6 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

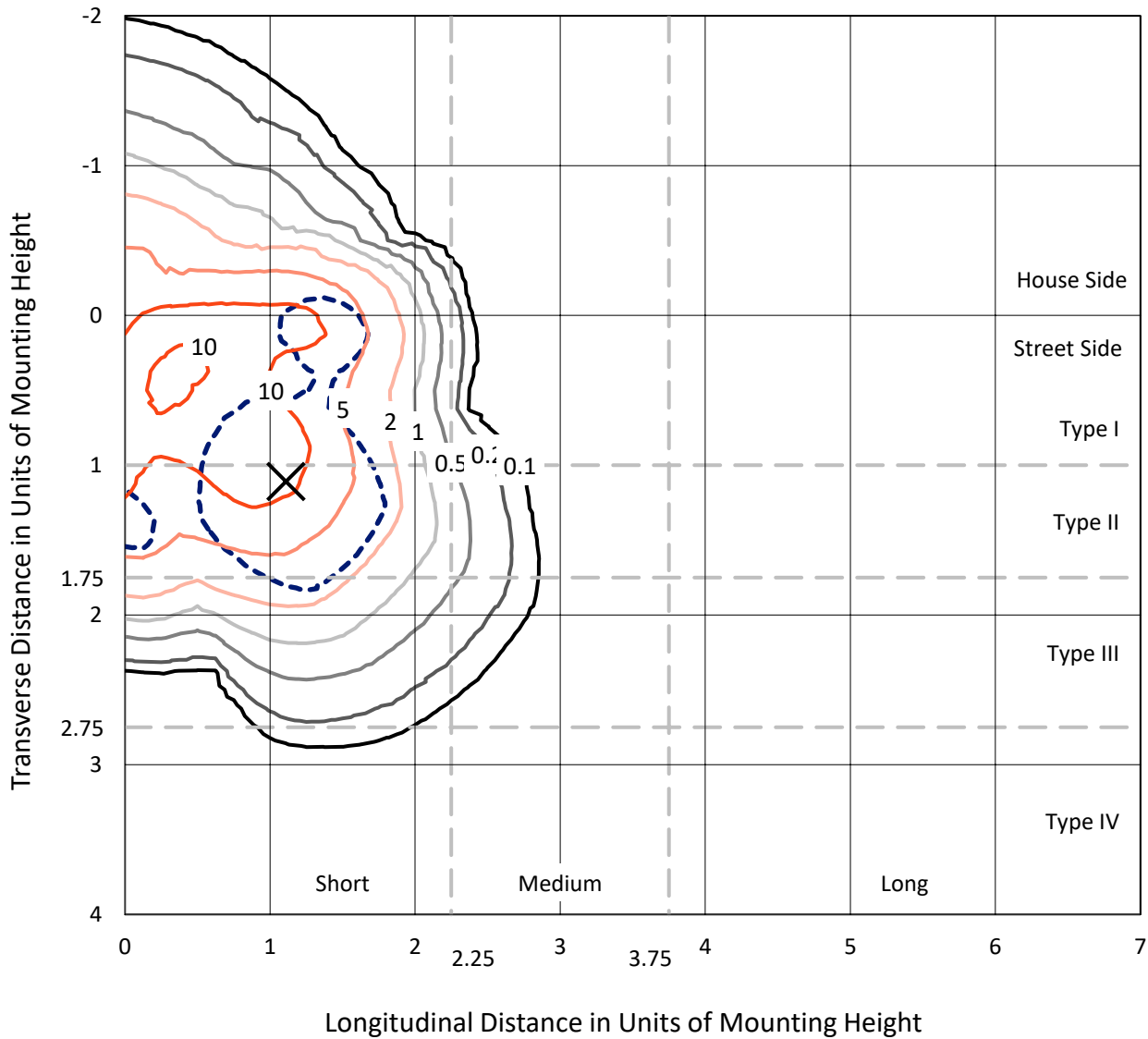
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

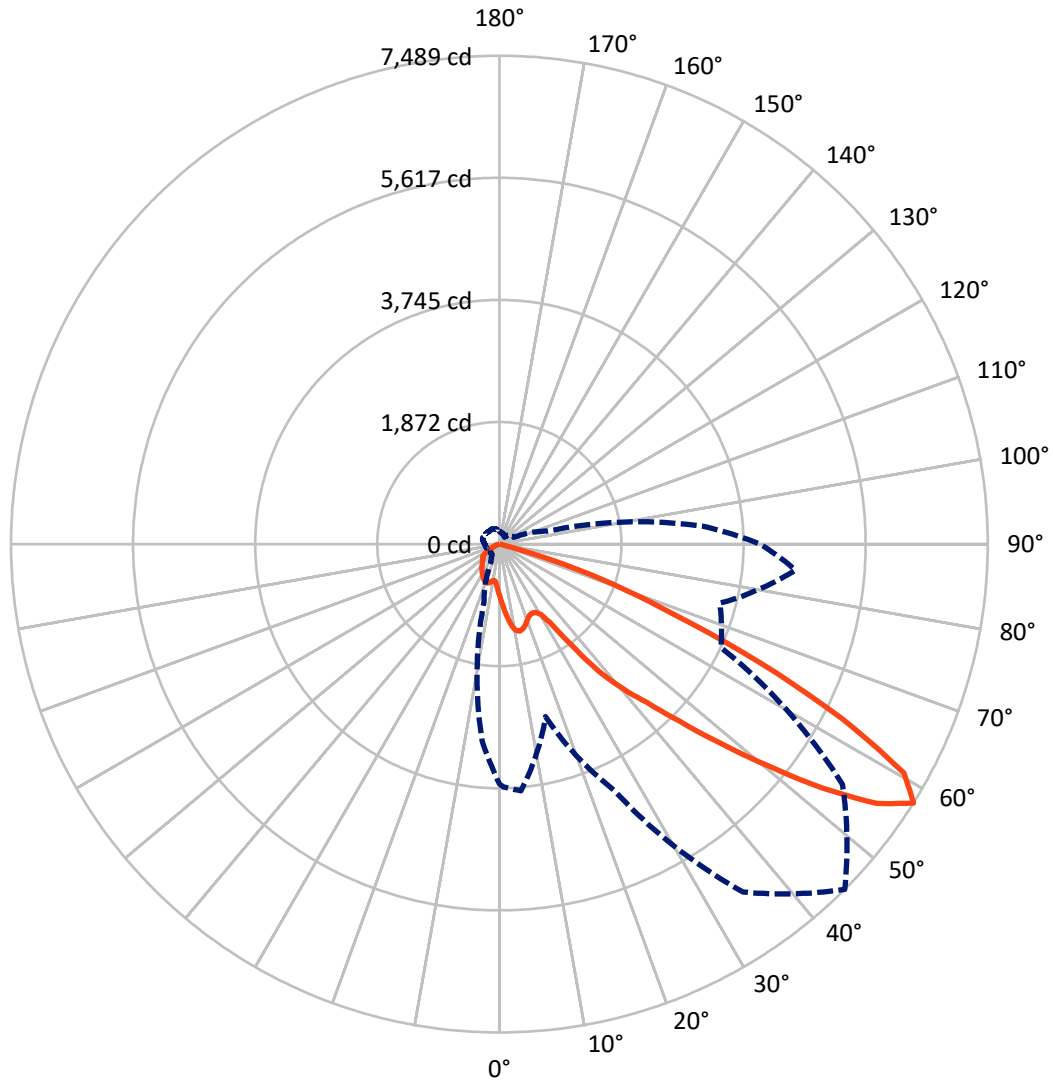
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 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	1015.4	0.0	1015.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	3519.2	0.0	3519.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	4534.6	0.0	4534.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.7
10°-20°	253.6	5.6
20°-30°	412.0	9.1
30°-40°	636.6	14.0
40°-50°	1020.9	22.5
50°-60°	1395.2	30.8
60°-70°	675.7	14.9
70°-80°	61.9	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°	4534.6	100.0
0°-180°	4534.6	100.0

Coefficient of Utilization



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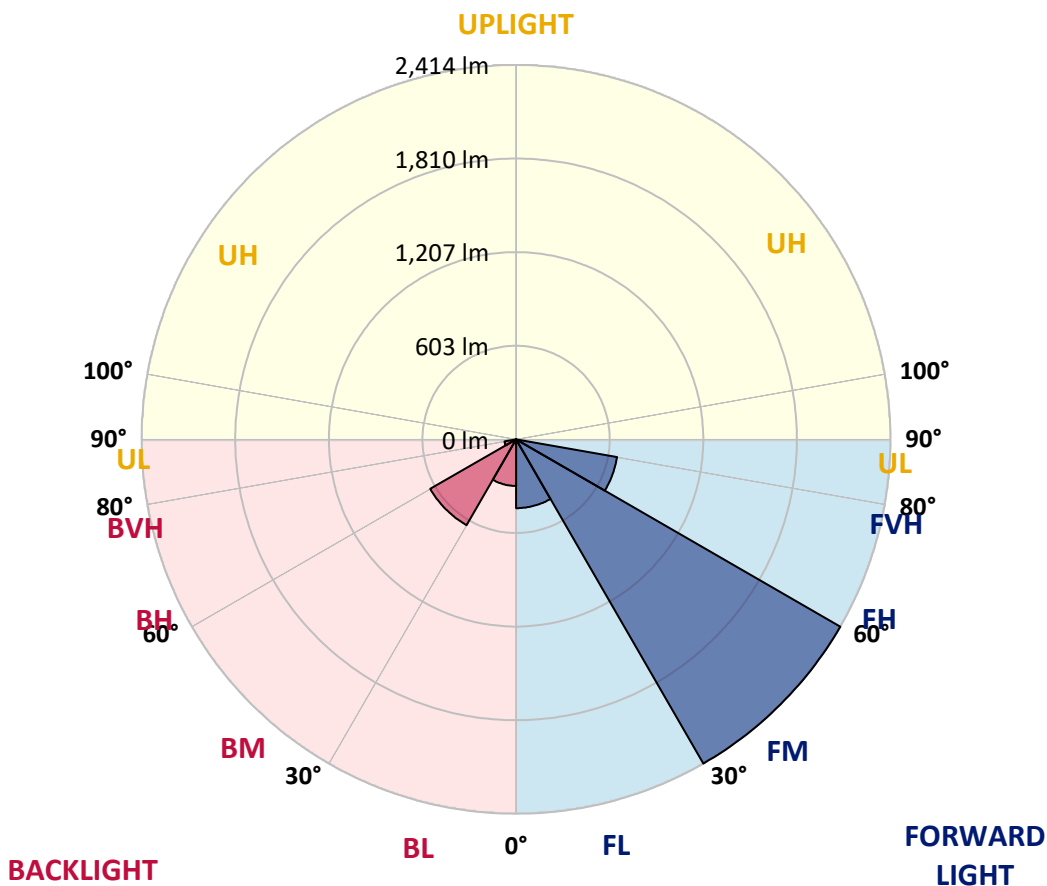
CATALOG NUMBER: GWS-SA1F-760-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.6	9.8			
FM (30°-60°)	2413.9	53.2			
FH (60°-80°)	661.5	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	300.5	6.6	B1/500		
BM (30°-60°)	638.9	14.1	B1/1000		
BH (60°-80°)	76.1	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	863.4	868.9	878.0	897.5	914.0	925.0	929.8	928.6	921.9	917.0	907.3
5°	956.0	956.0	973.7	1018.2	1052.3	1073.6	1084.6	1077.9	1064.5	1043.2	1010.3
7.5°	1037.1	1040.1	1070.0	1133.4	1185.1	1215.6	1233.3	1229.6	1205.9	1165.0	1099.2
10°	1100.5	1104.1	1143.7	1221.1	1282.0	1313.1	1339.3	1341.7	1315.5	1261.3	1185.8
12.5°	1162.0	1165.6	1207.1	1281.4	1335.0	1347.8	1371.0	1380.1	1373.4	1335.0	1256.4
15°	1228.4	1236.9	1272.3	1327.7	1350.3	1335.0	1350.3	1366.7	1389.3	1385.6	1314.9
17.5°	1293.6	1299.7	1335.7	1355.2	1330.2	1290.6	1297.9	1317.4	1368.6	1418.5	1372.8
20°	1353.9	1362.5	1392.3	1366.7	1291.2	1229.6	1230.2	1255.8	1333.8	1438.6	1431.9
22.5°	1417.3	1430.1	1451.4	1379.5	1255.2	1181.5	1184.5	1207.7	1306.4	1457.5	1499.0
25°	1500.2	1512.4	1526.4	1411.2	1243.6	1157.7	1169.3	1190.6	1306.4	1489.8	1581.8
27.5°	1612.3	1620.8	1621.4	1470.3	1263.8	1161.4	1185.8	1210.1	1345.4	1554.4	1692.7
30°	1753.0	1766.4	1748.8	1562.3	1326.5	1210.1	1246.1	1276.5	1429.5	1663.5	1856.0
32.5°	1924.3	1943.2	1919.4	1698.8	1457.5	1378.3	1443.5	1461.2	1563.5	1821.3	2041.3
35°	2125.3	2141.2	2115.6	1887.7	1763.4	1778.0	1896.2	1873.7	1832.9	2015.7	2257.6
37.5°	2345.9	2360.5	2311.2	2174.1	2215.5	2278.9	2467.8	2390.4	2258.8	2266.1	2492.2
40°	2548.2	2564.1	2486.7	2485.5	2570.8	2686.5	2914.4	2807.8	2628.7	2593.9	2712.1
42.5°	2757.8	2768.8	2698.7	2651.2	2845.0	3083.2	3324.5	3180.7	2873.6	2835.8	2987.5
45°	3057.0	3080.2	2955.3	2732.8	3091.7	3539.6	3876.0	3595.1	3040.6	3010.1	3409.2
47.5°	3496.9	3514.0	3259.3	2784.0	3321.5	4108.1	4565.1	4132.5	3187.4	3117.9	3985.6
50°	3860.7	3872.3	3539.0	2840.1	3565.8	4721.1	5350.5	4769.8	3352.5	3296.5	4523.7
52.5°	4128.8	4172.7	3906.4	2955.3	3886.9	5441.9	6220.0	5524.8	3610.3	3641.4	4969.7
55°	4184.3	4244.0	4157.5	3025.9	4169.7	6176.2	7023.1	6200.5	3867.4	3902.8	5119.6
57.5°	3677.3	3724.8	3796.7	2740.8	4162.9	6512.5	7489.3	6424.8	3750.4	3500.0	4558.4
60°	2754.8	2787.7	2918.1	2094.9	3828.4	6215.2	7126.1	6043.3	3279.4	2670.7	3473.2
62.5°	1633.6	1648.2	1813.4	1357.0	3177.7	5352.4	5909.9	5214.7	2591.5	1796.3	2127.2
65°	627.0	620.9	747.0	669.7	2336.8	4263.5	4395.7	3975.3	1778.0	823.2	811.0
67.5°	96.9	92.6	124.9	198.0	1685.4	2954.6	2900.4	2865.1	1113.9	191.9	167.6
70°	21.9	21.9	26.8	58.5	1029.8	1736.0	1857.8	1771.3	712.9	40.8	21.9
72.5°	10.4	10.4	12.8	25.0	372.9	715.4	833.6	820.8	231.5	13.4	7.9
75°	3.7	4.3	4.3	5.5	22.5	37.2	85.3	60.9	14.6	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°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	886.0	881.7	865.9	844.5	823.8	805.5	786.6	764.1	747.6	728.8	722.7
5°	984.7	957.9	914.6	869.5	828.1	792.7	758.6	722.1	695.2	668.4	659.3
7.5°	1068.2	1028.6	958.5	890.8	834.2	784.2	734.9	684.9	645.9	614.2	604.5
10°	1143.1	1097.4	1003.6	920.1	848.8	790.9	731.2	668.4	617.9	580.1	570.9
12.5°	1207.7	1154.7	1042.0	942.0	854.9	788.5	730.6	680.6	634.9	591.7	580.1
15°	1261.9	1203.4	1074.3	956.6	845.8	758.0	707.4	699.5	695.9	648.3	625.8
17.5°	1314.9	1249.1	1100.5	963.4	820.2	704.4	667.8	703.8	742.2	711.1	682.5
20°	1370.4	1295.4	1127.3	964.6	777.5	644.1	638.0	694.6	743.4	733.6	706.8
22.5°	1435.6	1353.3	1160.8	964.0	723.9	592.9	616.0	677.0	716.6	716.0	694.6
25°	1530.0	1426.4	1205.9	967.6	665.4	553.3	591.7	647.1	679.4	678.2	660.5
27.5°	1631.2	1513.6	1264.4	976.8	615.4	530.1	563.0	606.3	634.3	633.1	617.9
30°	1773.2	1614.1	1320.4	977.4	579.5	517.9	531.3	561.2	588.0	585.0	573.4
32.5°	1945.6	1727.5	1367.3	942.6	556.9	506.4	498.4	513.7	534.4	530.1	527.1
35°	2154.0	1862.1	1407.6	866.5	522.2	483.2	461.9	464.9	479.5	482.0	480.8
37.5°	2391.6	2022.4	1457.5	765.9	475.3	449.7	421.0	418.6	427.1	435.1	441.2
40°	2626.2	2202.7	1525.2	664.2	432.6	407.0	379.6	373.5	377.2	391.2	404.0
42.5°	2890.1	2411.7	1598.3	577.0	403.4	360.1	333.9	322.3	332.7	355.2	370.5
45°	3270.3	2704.8	1669.6	507.6	391.2	318.7	283.3	282.1	293.7	322.9	340.0
47.5°	3804.1	3083.8	1716.5	453.3	390.6	286.4	244.3	251.7	265.1	293.7	313.2
50°	4324.4	3558.5	1664.7	411.9	377.8	265.1	215.1	229.7	243.1	268.1	288.2
52.5°	4638.2	3813.8	1463.0	372.9	338.2	255.3	186.5	212.0	214.5	237.0	258.4
55°	4605.3	3648.7	1120.6	312.6	279.7	241.3	156.6	191.3	192.5	209.6	227.9
57.5°	3997.2	3132.6	769.6	253.5	210.2	199.3	129.2	161.5	173.0	183.4	196.8
60°	2979.0	2285.6	343.1	206.0	133.4	134.7	110.3	121.9	139.5	151.7	163.3
62.5°	1755.5	1314.9	139.5	123.7	73.7	84.7	89.0	89.0	99.9	109.1	116.4
65°	663.6	460.0	56.7	62.2	38.4	39.6	52.4	64.6	73.1	81.0	90.8
67.5°	116.4	80.4	29.2	23.2	22.5	20.1	26.8	42.0	46.9	53.0	57.3
70°	19.5	16.5	12.2	11.6	10.4	11.0	17.7	29.9	32.9	34.7	36.6
72.5°	5.5	4.9	3.7	3.0	2.4	3.0	11.0	23.2	24.4	25.6	27.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	16.5	17.7	18.3	20.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	4.9	6.1	4.9
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°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	719.0	706.8	700.1	696.5	696.5	691.6	686.1	684.3	692.2	692.2	705.6
5°	647.7	638.0	627.0	620.3	609.9	611.8	605.7	605.1	613.0	616.6	630.7
7.5°	598.4	586.2	579.5	575.2	569.7	567.3	561.8	560.0	564.2	570.3	583.7
10°	565.5	563.6	563.0	566.1	566.1	563.0	558.1	555.1	556.3	567.9	583.1
12.5°	574.0	577.6	578.9	583.7	586.2	583.7	580.1	581.3	589.2	610.5	633.1
15°	611.2	608.1	606.9	609.3	611.2	608.7	607.5	616.6	644.1	674.5	700.1
17.5°	650.8	631.3	622.7	622.7	624.0	622.7	624.0	641.6	686.1	716.6	735.5
20°	670.9	634.9	621.5	618.5	620.9	621.5	625.8	645.9	694.6	716.0	720.2
22.5°	664.8	619.7	604.5	602.0	604.5	606.9	611.2	628.2	673.9	684.9	683.1
25°	634.3	589.8	577.6	577.6	583.1	582.5	584.3	596.5	634.3	641.0	638.0
27.5°	595.9	553.9	543.5	549.6	554.5	553.3	553.9	564.2	592.3	594.1	591.1
30°	556.9	520.4	510.6	517.9	524.6	523.4	524.0	534.4	552.1	550.2	546.0
32.5°	517.3	490.5	483.2	487.5	497.8	496.6	499.0	510.0	516.7	508.8	503.9
35°	480.8	466.7	461.3	463.7	471.6	473.4	477.7	485.0	485.0	475.3	466.7
37.5°	446.6	444.8	441.2	438.1	445.4	450.9	457.0	465.5	453.3	439.3	431.4
40°	415.0	422.9	418.0	410.1	414.3	422.3	434.5	441.2	426.5	412.5	399.1
42.5°	385.7	399.1	397.3	387.5	391.2	398.5	412.5	418.0	400.9	385.1	372.3
45°	357.7	376.6	377.8	365.6	369.3	376.6	393.0	394.8	372.9	355.8	346.7
47.5°	333.3	354.0	354.6	345.5	346.7	357.1	372.3	372.9	347.9	332.1	320.5
50°	310.1	333.9	335.7	327.8	329.0	341.2	354.0	351.6	324.8	308.3	298.0
52.5°	282.1	314.4	318.7	315.0	319.9	329.6	337.6	329.0	298.0	281.5	272.4
55°	251.7	293.7	302.8	300.4	305.9	313.8	315.6	310.1	271.2	254.7	246.2
57.5°	216.3	241.9	257.7	252.9	257.1	265.1	270.5	266.3	237.0	224.2	216.9
60°	179.1	196.2	199.9	191.9	188.3	202.3	215.1	209.6	184.6	176.7	168.2
62.5°	131.0	150.5	152.9	142.6	138.3	153.6	164.5	159.0	131.6	123.1	116.4
65°	104.8	123.1	128.0	118.2	115.8	127.4	134.1	120.6	101.1	92.0	84.7
67.5°	68.9	83.5	96.3	95.7	90.8	94.4	89.6	78.6	64.6	59.7	54.8
70°	42.7	51.2	59.1	62.2	61.5	60.3	53.6	45.7	41.4	39.6	37.2
72.5°	32.9	41.4	47.5	49.4	50.0	48.1	42.7	35.3	31.1	28.6	26.8
75°	24.4	31.1	36.0	38.4	39.6	38.4	32.9	28.0	23.8	21.9	20.1
77.5°	8.5	10.4	12.8	14.0	13.4	12.8	11.6	11.6	9.1	8.5	7.3
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°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	720.8	731.8	751.9	770.2	789.7	809.8	831.7	854.3	864.6	863.4
5°	652.0	675.7	708.7	744.6	784.8	828.1	876.2	925.6	946.9	956.0
7.5°	608.7	642.2	685.5	731.2	784.2	845.8	918.3	995.6	1026.7	1037.1
10°	614.2	653.2	689.2	733.6	790.3	870.1	960.3	1052.3	1088.9	1100.5
12.5°	658.7	667.2	677.0	713.5	784.8	888.4	998.7	1108.4	1150.4	1162.0
15°	698.9	659.3	641.0	674.5	765.3	901.2	1037.7	1168.7	1215.0	1228.4
17.5°	700.7	641.0	600.2	626.4	733.6	906.7	1076.1	1230.2	1280.8	1293.6
20°	678.2	620.9	568.5	569.1	690.4	905.5	1107.8	1285.7	1342.4	1353.9
22.5°	645.3	597.1	542.9	524.0	644.1	903.0	1142.5	1344.8	1406.3	1417.3
25°	608.7	566.7	518.5	489.9	597.8	905.5	1191.2	1422.2	1489.8	1500.2
27.5°	569.1	533.2	499.7	476.5	558.8	914.6	1249.7	1520.9	1601.3	1612.3
30°	527.7	500.9	487.5	473.4	534.4	917.0	1313.1	1636.1	1737.8	1753.0
32.5°	486.9	472.2	472.8	475.3	511.2	900.0	1371.0	1764.0	1899.9	1924.3
35°	449.1	444.8	457.0	469.2	477.7	856.1	1421.6	1915.1	2100.4	2125.3
37.5°	416.8	420.4	435.7	447.9	441.2	794.0	1488.6	2104.0	2324.6	2345.9
40°	385.7	394.8	412.5	418.0	413.1	721.4	1569.0	2286.2	2519.0	2548.2
42.5°	357.1	363.8	388.8	390.0	405.2	647.7	1646.4	2482.4	2742.6	2757.8
45°	333.9	332.7	358.3	366.2	415.6	566.1	1722.0	2743.8	3035.1	3057.0
47.5°	311.4	310.1	316.2	352.2	419.8	490.5	1796.9	3126.5	3459.2	3496.9
50°	290.0	291.9	273.0	345.5	396.7	432.6	1831.0	3480.5	3844.9	3860.7
52.5°	271.2	264.4	231.5	323.6	347.3	377.8	1734.2	3641.4	4083.7	4128.8
55°	244.3	207.2	190.7	262.6	274.2	329.6	1420.3	3548.1	4104.5	4184.3
57.5°	209.0	162.7	162.1	193.8	193.8	305.9	909.7	3031.4	3537.2	3677.3
60°	160.9	126.1	134.1	134.7	124.3	223.0	510.6	2196.0	2615.2	2754.8
62.5°	114.6	96.3	101.1	80.4	71.3	111.5	245.0	1264.4	1614.1	1633.6
65°	76.8	65.2	53.0	44.5	43.9	47.5	101.1	457.0	555.7	627.0
67.5°	50.6	39.6	28.0	28.0	31.7	31.7	38.4	75.6	106.0	96.9
70°	32.9	27.4	17.7	17.1	20.7	20.7	19.5	20.7	21.9	21.9
72.5°	24.4	20.7	10.4	9.1	11.6	12.2	11.0	10.4	10.4	10.4
75°	18.3	14.6	6.1	4.3	5.5	7.3	6.1	4.3	4.3	3.7
77.5°	7.3	5.5	2.4	1.8	3.0	4.3	3.7	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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