

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: P631940

Luminaire Tested: GWS-SA2B-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631940
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-SA2B-760-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4321 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

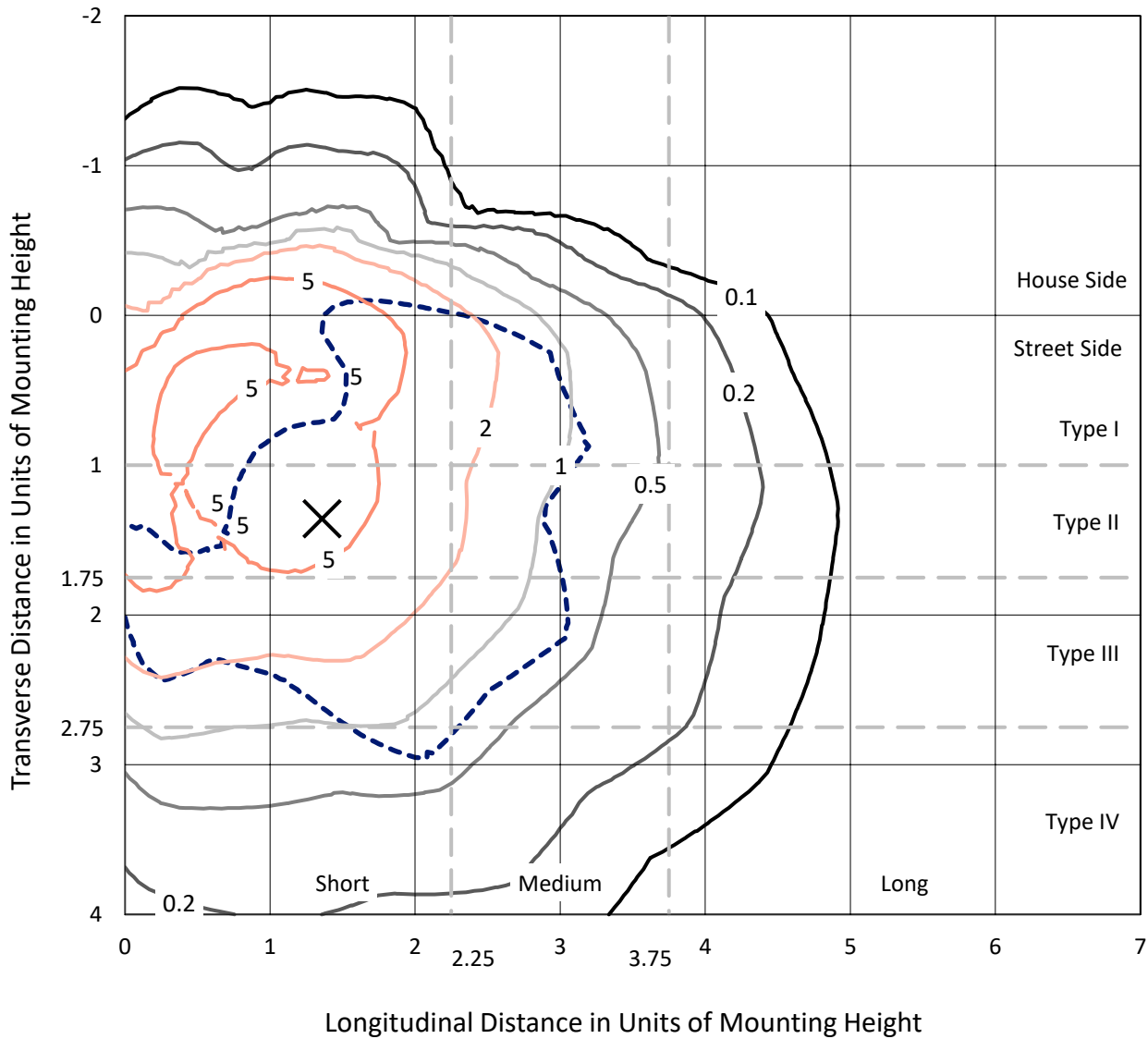
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

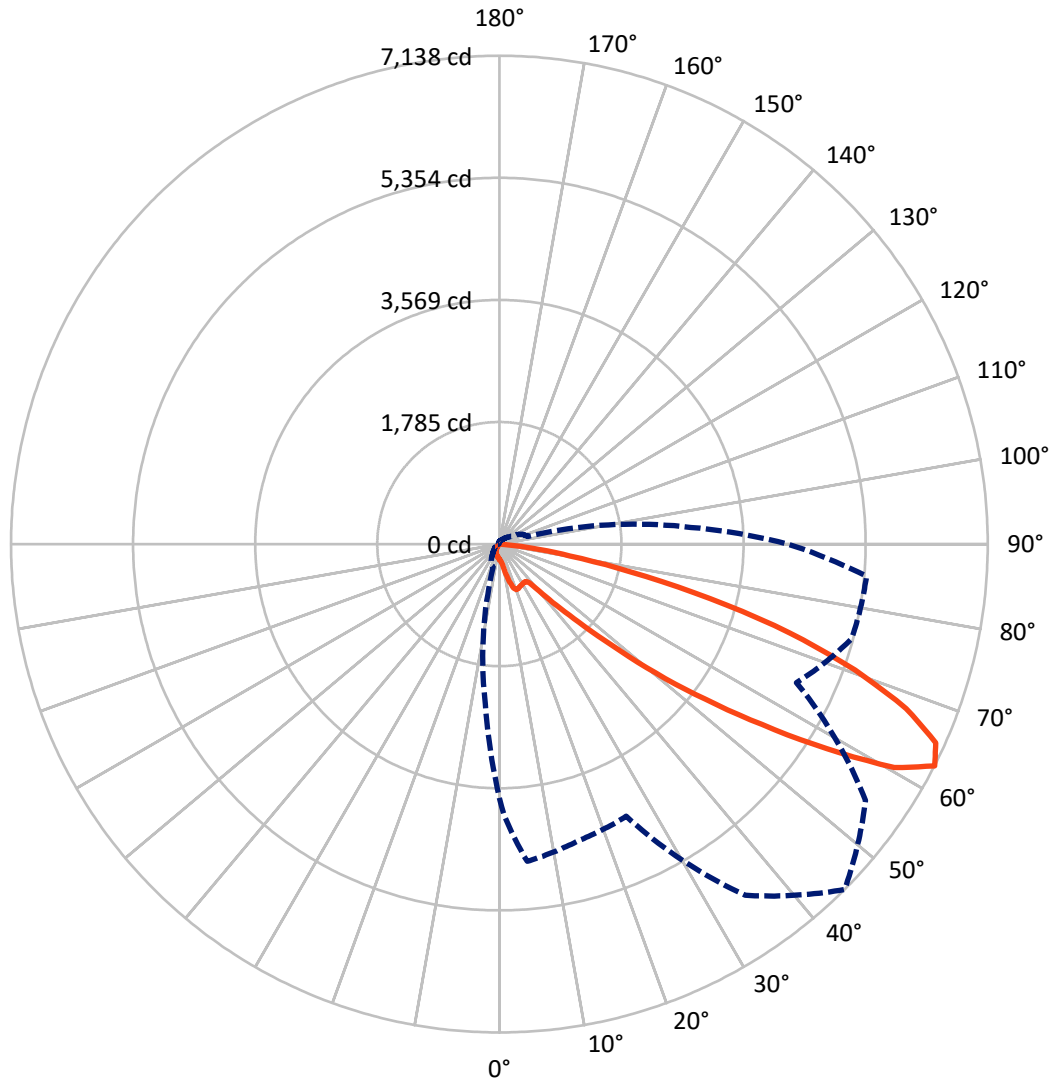
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 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	533.2	0.0	533.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3787.8	0.0	3787.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	4321.0	0.0	4321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.5
10°-20°	75.3	1.7
20°-30°	163.8	3.8
30°-40°	268.8	6.2
40°-50°	494.1	11.4
50°-60°	1061.2	24.6
60°-70°	1425.3	33.0
70°-80°	742.2	17.2
80°-90°	70.4	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°	4321.0	100.0
0°-180°	4321.0	100.0

Coefficient of Utilization

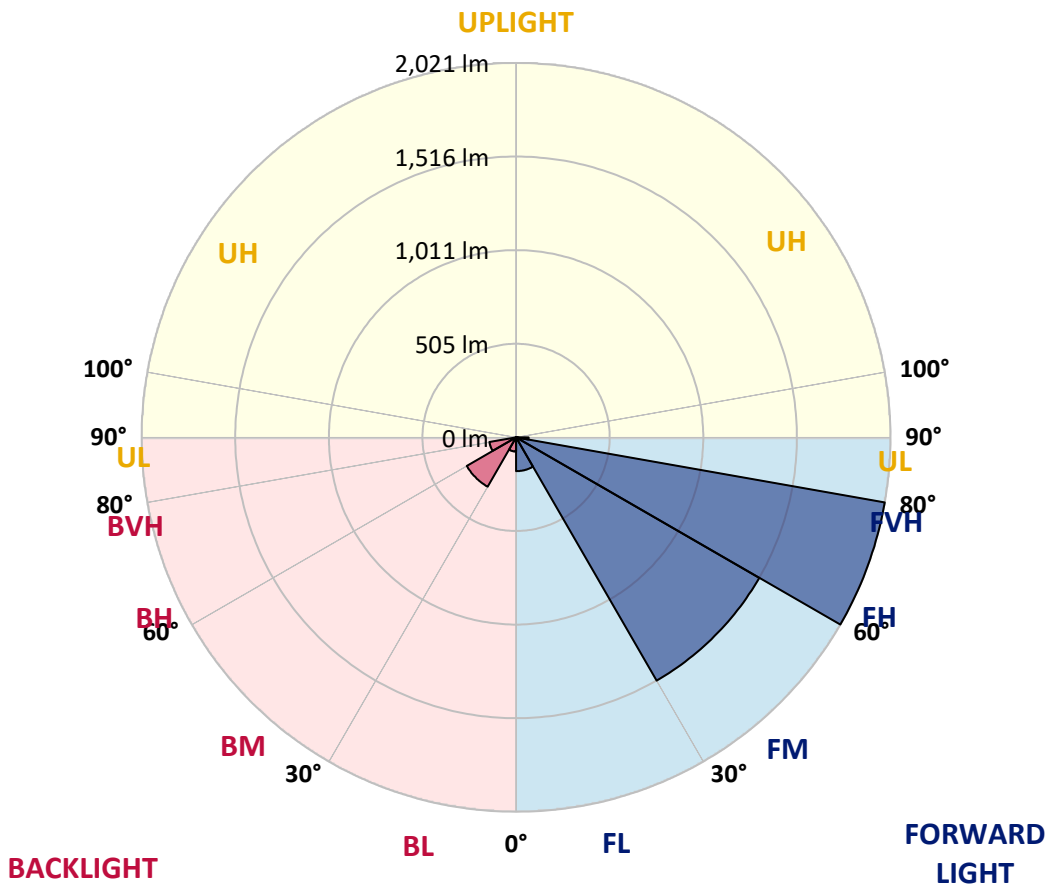


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.5	4.2			
FM (30°-60°)	1516.6	35.1			
FH (60°-80°)	2021.4	46.8			G2/5000
FVH (80°-90°)	67.2	1.6			G1/100
BL (0°-30°)	76.5	1.8	B0/110		
BM (30°-60°)	307.5	7.1	B1/1000		
BH (60°-80°)	146.1	3.4	B1/500		G1/500
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
2.5°	229.1	230.1	231.1	234.6	237.1	239.1	239.6	238.1	234.6	231.1	226.1
5°	222.1	223.1	226.6	236.1	245.6	253.1	255.5	254.0	245.6	234.6	223.1
7.5°	221.6	223.6	232.1	252.1	272.5	288.0	292.0	288.5	272.5	250.6	227.1
10°	239.6	243.1	255.5	291.5	328.9	356.4	367.3	352.4	326.9	287.0	248.6
12.5°	286.5	292.5	316.4	368.8	426.7	463.2	478.2	459.7	419.8	361.9	301.0
15°	360.4	369.3	405.3	483.6	552.0	584.5	589.5	579.0	532.6	468.7	386.8
17.5°	464.7	477.7	533.6	613.4	662.8	674.3	672.8	661.8	627.9	584.0	506.6
20°	589.5	604.9	659.8	725.7	730.7	717.2	709.7	703.3	691.8	684.3	623.9
22.5°	715.2	734.2	791.6	808.1	763.1	724.2	705.7	710.7	727.7	764.6	740.2
25°	840.5	858.5	912.4	868.0	778.1	713.2	689.8	701.8	742.2	822.0	853.5
27.5°	986.7	1000.2	1032.2	908.9	780.6	704.3	681.3	699.8	749.2	858.0	977.8
30°	1139.0	1147.0	1131.5	919.9	772.1	690.8	672.8	699.8	761.1	881.9	1071.1
32.5°	1250.8	1252.3	1201.9	920.9	767.6	679.8	664.8	696.8	772.6	901.9	1161.4
35°	1366.1	1358.6	1269.2	935.8	779.6	683.8	670.8	705.2	790.6	925.4	1240.8
37.5°	1482.9	1469.4	1344.6	960.3	810.6	727.2	719.2	748.7	819.5	957.8	1328.1
40°	1602.7	1584.2	1423.0	997.2	879.4	874.9	902.4	898.9	898.9	999.2	1418.0
42.5°	1748.9	1727.4	1538.8	1101.5	1040.2	1140.5	1215.3	1168.9	1083.1	1094.6	1534.8
45°	1942.1	1923.6	1739.4	1301.2	1292.2	1522.8	1623.6	1531.8	1318.2	1314.7	1729.9
47.5°	2251.0	2247.5	2059.3	1532.8	1600.7	2009.4	2204.1	2027.4	1586.2	1547.8	2099.3
50°	2685.2	2674.8	2458.1	1804.3	1967.5	2612.4	2959.7	2665.3	1910.1	1819.8	2593.9
52.5°	3174.4	3185.3	3016.6	2100.8	2357.3	3283.2	3766.8	3396.0	2262.0	2165.7	3216.3
55°	3635.1	3697.9	3653.5	2447.7	2738.1	4023.9	4653.2	4197.6	2697.7	2618.4	3914.1
57.5°	3995.4	4172.6	4484.0	2951.8	3185.8	4890.3	5643.0	5066.5	3206.3	3353.6	4863.9
60°	4015.4	4250.0	4973.2	4006.4	3761.8	5633.5	6631.2	5915.5	4005.9	4601.8	5608.1
62.5°	3714.4	3966.0	4654.7	4485.5	4389.2	6265.9	7138.3	6534.4	4792.5	5333.0	5387.4
65°	3370.0	3624.1	4299.4	3942.0	4316.3	6238.9	7009.6	6548.9	4863.9	4835.9	4992.6
67.5°	2849.4	3077.5	3689.0	3489.3	3978.4	5938.0	6414.6	6136.1	4481.1	4523.0	4592.9
70°	2079.8	2299.4	2866.9	2876.9	3474.3	5395.4	5511.7	5473.3	4126.7	4171.1	3971.5
72.5°	1502.3	1687.5	2177.1	2359.3	2773.6	4524.5	4444.1	4592.4	3540.7	3714.9	3189.8
75°	1080.1	1218.8	1597.2	2052.4	2198.6	3360.0	3181.4	3556.7	2841.0	3198.8	2398.2
77.5°	438.2	487.1	628.4	1382.5	1444.9	2260.5	1947.5	2583.4	2025.4	2101.8	1162.4
80°	18.0	20.0	26.0	713.7	990.7	1271.7	1042.2	1381.1	1337.6	846.5	274.5
82.5°	2.0	2.0	4.5	205.6	433.7	701.8	491.1	795.6	677.3	358.9	124.8
85°	0.5	0.5	1.0	23.5	101.8	112.3	66.4	244.1	314.9	146.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.5	5.0	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°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
2.5°	226.1	223.6	220.6	217.6	216.1	212.1	210.6	209.6	208.6	209.1	209.1
5°	218.6	213.1	206.6	200.1	196.7	192.7	190.7	189.7	190.2	192.2	192.2
7.5°	217.6	207.1	193.2	184.7	180.7	177.7	175.7	174.7	175.2	177.7	178.7
10°	234.1	215.6	190.7	176.2	171.7	168.7	166.7	165.2	164.2	166.2	166.7
12.5°	269.5	244.1	202.6	175.2	167.2	163.2	161.7	158.7	157.2	158.2	158.7
15°	342.9	299.0	226.6	179.2	163.2	158.7	156.2	153.7	151.2	150.7	151.2
17.5°	438.7	375.8	263.0	188.7	160.2	154.7	151.2	147.7	144.2	143.7	143.2
20°	557.5	470.2	313.9	203.6	157.7	151.2	146.2	141.2	136.8	135.3	135.3
22.5°	665.8	584.0	379.3	222.1	154.2	146.2	140.3	134.3	129.3	126.8	126.3
25°	798.1	704.7	457.7	243.6	149.2	139.8	133.3	127.3	122.3	119.3	118.3
27.5°	931.3	832.0	546.5	271.5	143.2	133.3	127.3	121.8	116.3	112.8	111.8
30°	1060.6	969.3	646.4	306.5	138.8	126.8	121.8	116.3	111.3	105.8	104.3
32.5°	1199.4	1109.5	758.2	345.4	135.3	122.3	116.8	111.8	105.3	100.3	97.8
35°	1333.1	1254.3	881.4	383.3	131.8	118.3	112.3	107.3	100.3	94.8	91.3
37.5°	1467.9	1401.5	1010.2	406.3	126.8	112.8	107.3	103.3	95.3	88.8	84.8
40°	1610.6	1553.7	1149.5	396.8	122.3	106.8	103.8	99.3	90.3	82.9	77.9
42.5°	1767.4	1699.0	1291.2	360.4	118.3	101.8	98.8	94.3	85.8	76.9	70.4
45°	1964.5	1858.2	1407.5	305.5	120.3	96.8	90.8	89.8	81.9	70.4	62.4
47.5°	2303.4	2102.8	1497.8	270.0	133.8	91.3	84.4	86.8	78.4	63.9	54.9
50°	2822.0	2508.1	1582.2	267.5	154.2	88.8	78.4	84.8	74.9	57.4	48.4
52.5°	3316.1	2919.8	1636.1	289.5	172.2	95.3	72.4	82.4	72.4	52.9	43.9
55°	3788.8	3157.4	1539.8	305.5	189.2	114.8	67.9	78.4	69.4	50.4	42.4
57.5°	4298.4	3263.2	1212.3	337.9	201.1	131.3	68.9	72.4	65.4	48.9	41.9
60°	4450.6	3128.0	731.7	380.3	194.7	136.3	76.4	64.4	59.9	45.9	40.4
62.5°	4214.0	2807.0	431.7	346.4	189.2	128.8	87.3	59.4	54.4	41.9	37.4
65°	3860.2	2371.3	281.5	292.5	200.6	114.8	92.8	56.9	49.4	37.9	32.9
67.5°	3455.9	1910.1	197.2	172.7	185.2	103.3	78.4	56.4	44.4	31.9	27.0
70°	2910.8	1430.5	138.8	114.3	154.2	91.8	60.9	54.9	38.9	26.0	21.0
72.5°	2249.0	895.4	103.3	73.9	109.8	74.9	48.4	46.4	31.4	21.5	16.0
75°	1658.6	510.6	72.9	53.4	72.4	56.9	35.9	32.9	27.0	20.5	14.5
77.5°	866.0	255.5	45.4	40.9	41.4	35.4	26.0	24.0	25.0	20.5	13.5
80°	166.2	50.9	27.5	29.9	22.5	22.5	19.0	20.0	22.0	16.5	11.5
82.5°	69.4	11.0	15.0	17.0	14.0	15.5	15.5	16.0	15.5	12.0	8.5
85°	0.0	0.0	6.5	7.0	9.5	9.5	8.0	8.0	8.0	7.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.5	3.0	3.5	4.0	3.0	2.0
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°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
2.5°	208.6	207.6	209.1	210.1	211.1	211.1	210.1	209.1	207.6	209.1	207.6
5°	192.7	194.2	196.7	197.6	198.6	196.7	195.7	192.7	190.2	190.7	189.7
7.5°	180.2	181.7	184.7	186.7	186.7	185.7	182.7	179.7	175.7	175.7	175.2
10°	168.7	170.7	174.2	176.7	177.7	176.7	173.7	169.7	166.2	166.2	164.7
12.5°	159.2	161.7	165.7	169.2	170.2	169.2	166.2	162.2	158.2	158.2	157.2
15°	151.2	154.2	158.7	162.7	164.2	162.7	159.2	154.2	150.2	150.7	149.2
17.5°	143.7	146.2	152.2	156.7	158.2	156.7	152.2	145.7	141.7	142.7	141.7
20°	135.3	138.3	144.2	149.2	150.7	149.2	144.2	137.3	133.3	133.3	133.8
22.5°	126.3	129.3	135.3	138.8	140.8	139.3	134.3	127.8	123.8	123.8	124.3
25°	118.3	119.8	124.3	127.8	128.3	126.8	122.8	117.8	114.8	116.3	116.8
27.5°	110.8	110.8	112.8	114.8	114.3	112.8	111.3	107.3	106.8	108.3	109.8
30°	102.8	100.3	99.3	97.8	97.3	96.8	98.3	98.3	99.3	101.3	102.8
32.5°	95.8	90.8	86.3	81.9	79.4	81.4	85.3	88.8	92.3	95.3	96.8
35°	87.8	79.9	72.4	66.4	62.4	65.4	71.9	78.4	84.4	88.3	90.8
37.5°	79.9	68.4	59.4	51.9	48.9	51.4	58.4	67.4	76.4	81.4	84.8
40°	71.4	56.9	46.4	40.4	37.4	39.9	46.9	55.9	67.9	74.4	78.9
42.5°	62.9	46.9	37.4	31.4	29.9	31.4	36.9	45.9	58.9	66.9	72.9
45°	54.4	38.9	29.9	25.5	24.0	25.5	29.9	37.4	50.4	59.4	66.4
47.5°	46.9	32.9	25.0	21.0	20.0	21.5	25.0	31.4	42.4	51.4	59.4
50°	40.9	28.9	21.5	18.0	17.0	18.5	21.5	26.5	35.9	43.9	52.4
52.5°	36.9	27.0	19.0	15.5	15.0	16.0	18.5	22.5	30.4	37.4	45.4
55°	35.9	27.0	17.5	14.0	13.5	14.5	16.5	19.5	26.5	32.4	39.4
57.5°	36.9	28.9	16.5	12.0	11.5	12.5	14.5	17.0	23.0	28.0	34.4
60°	36.9	29.4	14.5	9.5	9.0	10.0	12.0	15.0	20.5	24.5	29.9
62.5°	33.4	27.0	12.0	7.5	6.5	7.5	10.0	12.5	18.0	22.0	26.5
65°	28.9	23.0	10.0	5.5	4.5	5.5	8.0	10.5	15.5	19.0	24.0
67.5°	23.5	17.5	7.5	4.0	3.0	4.0	6.0	8.5	13.0	16.5	21.5
70°	17.5	12.5	6.0	3.5	3.0	3.5	5.5	8.0	11.5	15.0	20.0
72.5°	13.0	8.5	5.0	3.5	2.5	3.5	5.0	7.5	11.0	14.5	19.0
75°	11.0	7.0	4.5	3.0	2.5	3.0	4.5	7.0	10.0	13.5	18.0
77.5°	10.5	6.5	4.0	2.5	2.0	2.5	4.0	6.0	9.0	12.5	17.5
80°	9.0	5.5	3.5	2.0	1.5	2.0	3.5	5.0	7.0	9.5	13.5
82.5°	7.0	4.5	2.5	1.0	0.5	1.0	2.5	3.0	4.5	5.5	8.0
85°	4.5	2.5	1.0	0.0	0.0	0.0	1.0	2.0	2.0	2.5	4.0
87.5°	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
2.5°	210.6	211.1	212.1	213.6	217.1	220.1	223.1	227.1	229.1	229.1
5°	190.7	191.2	191.7	193.7	198.6	202.6	209.1	217.1	221.1	222.1
7.5°	175.2	176.2	177.2	178.7	183.7	189.2	197.6	212.6	220.1	221.6
10°	166.2	167.7	169.7	172.7	177.2	183.2	197.6	224.6	237.1	239.6
12.5°	159.2	161.7	163.7	167.2	172.7	182.2	211.1	258.5	280.5	286.5
15°	152.2	155.2	158.2	161.7	167.7	185.7	237.1	319.4	355.9	360.4
17.5°	145.2	148.7	152.7	156.7	164.2	194.2	278.0	403.8	454.7	464.7
20°	137.3	141.7	147.2	152.2	160.7	207.6	334.9	504.1	568.0	589.5
22.5°	128.8	134.3	140.8	147.2	156.7	224.1	403.8	611.9	701.3	715.2
25°	121.8	127.3	133.3	139.8	150.2	244.1	487.1	745.7	827.0	840.5
27.5°	115.3	120.8	126.3	132.3	143.7	270.0	587.5	887.9	972.8	986.7
30°	108.3	114.8	120.3	126.3	137.8	302.0	703.3	1045.6	1126.0	1139.0
32.5°	102.3	108.8	114.3	120.3	133.3	336.9	825.0	1185.4	1250.8	1250.8
35°	97.3	104.3	108.3	116.3	129.8	359.4	940.3	1318.7	1368.1	1366.1
37.5°	91.8	100.3	103.3	108.8	125.3	361.9	1048.6	1459.4	1495.8	1482.9
40°	86.3	95.3	99.8	102.8	120.3	341.4	1167.4	1588.7	1619.6	1602.7
42.5°	81.4	88.3	94.8	98.3	117.3	305.5	1262.8	1726.9	1763.9	1748.9
45°	76.4	82.4	86.3	92.8	119.3	280.5	1344.6	1888.2	1953.0	1942.1
47.5°	71.4	76.4	78.9	88.8	132.8	269.0	1394.5	2137.7	2260.0	2251.0
50°	65.9	71.9	71.9	87.8	152.7	273.0	1437.9	2499.1	2688.2	2685.2
52.5°	60.4	66.9	65.9	95.3	168.2	291.5	1487.4	2818.0	3146.9	3174.4
55°	54.9	60.9	61.9	110.3	177.2	307.5	1296.2	2952.3	3538.7	3635.1
57.5°	48.9	52.4	64.4	121.8	174.2	353.9	887.9	2976.7	3788.8	3995.4
60°	42.4	45.4	72.9	119.3	164.7	326.9	559.0	2757.1	3753.3	4015.4
62.5°	36.9	41.9	76.9	105.3	167.7	283.5	356.4	2349.8	3415.4	3714.4
65°	32.4	40.4	69.9	95.3	169.7	192.2	240.6	1911.6	3085.5	3370.0
67.5°	28.9	44.9	57.4	84.8	145.7	135.3	165.2	1485.4	2594.4	2849.4
70°	26.5	45.9	46.9	72.9	112.8	86.8	108.8	999.7	1788.3	2079.8
72.5°	24.0	33.9	35.4	58.4	72.9	52.9	70.4	572.0	1303.7	1502.3
75°	23.0	23.0	24.5	37.9	40.4	38.4	45.4	341.4	934.8	1080.1
77.5°	21.5	17.5	15.5	24.5	22.0	27.5	27.0	151.7	405.3	438.2
80°	17.0	12.5	10.5	15.5	15.0	18.5	16.0	12.5	18.5	18.0
82.5°	10.5	8.0	7.5	9.5	8.5	9.5	7.5	2.0	2.0	2.0
85°	5.0	4.5	4.0	4.0	4.5	4.0	3.0	1.0	0.5	0.5
87.5°	2.5	2.5	2.0	1.5	2.0	2.0	1.5	0.5	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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