

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: P631830

Luminaire Tested: GWS-SA2B-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631830
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4282.9 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

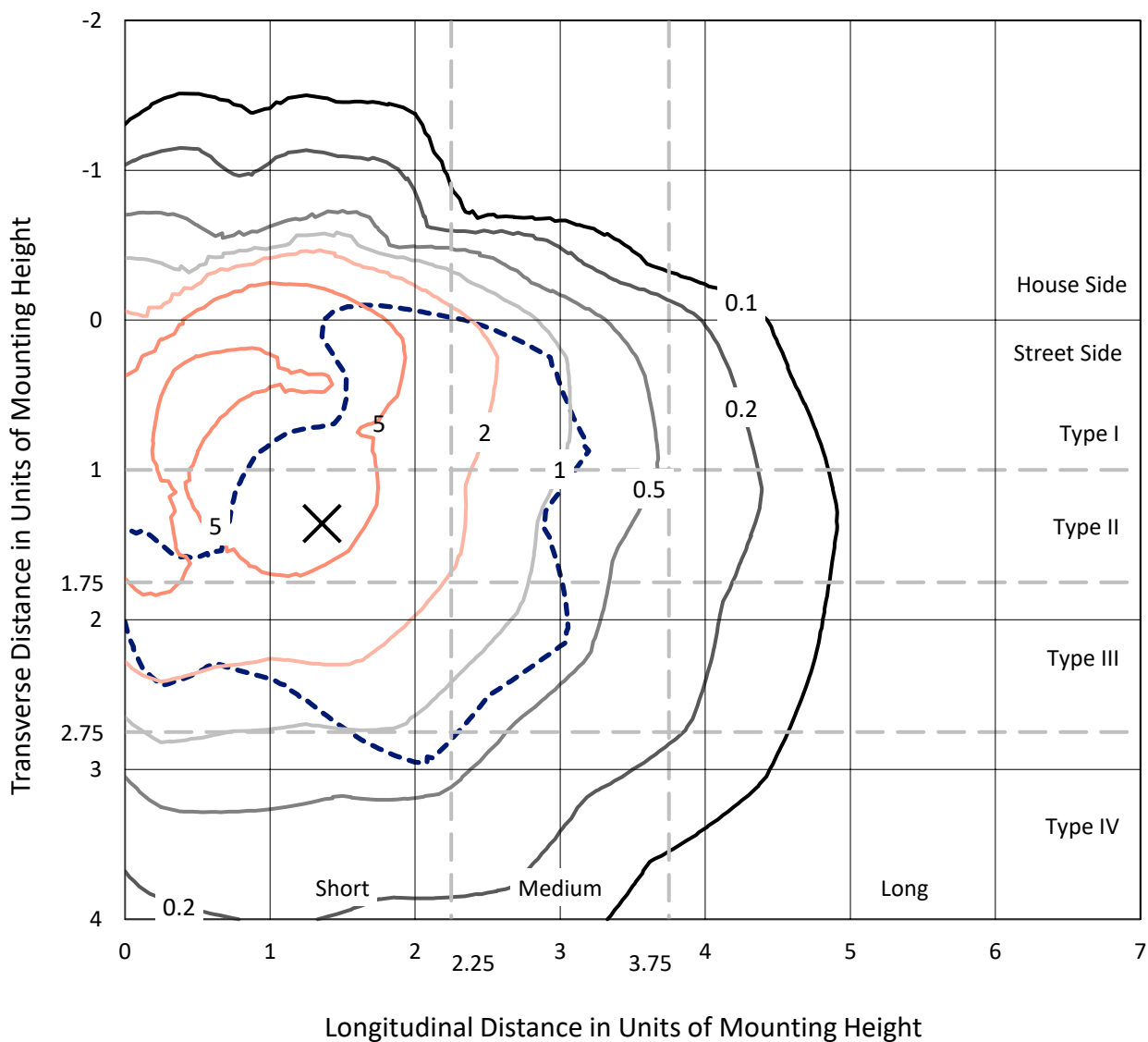
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

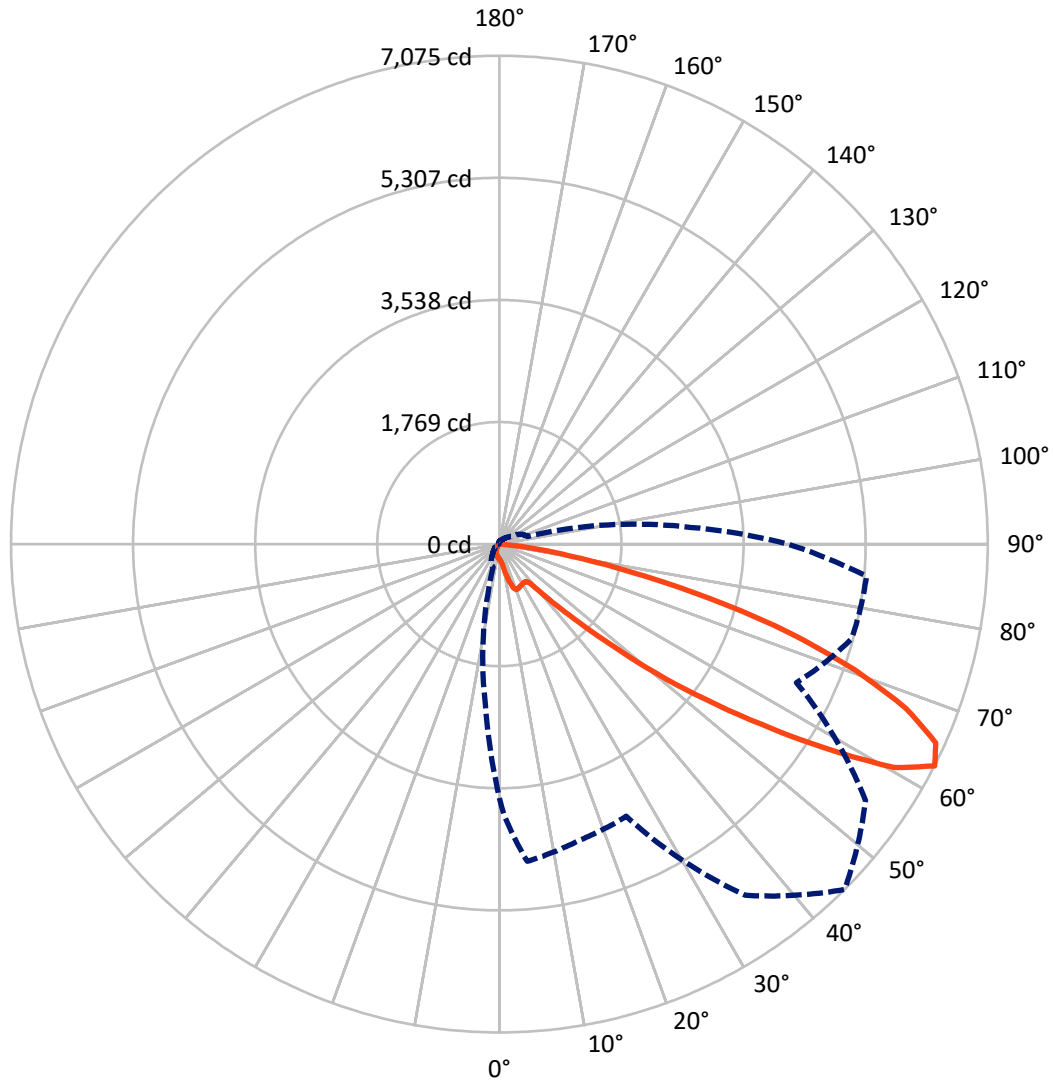
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 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	528.5	0.0	528.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3754.4	0.0	3754.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	4282.9	0.0	4282.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	0.5
10°-20°	74.7	1.7
20°-30°	162.3	3.8
30°-40°	266.4	6.2
40°-50°	489.8	11.4
50°-60°	1051.8	24.6
60°-70°	1412.8	33.0
70°-80°	735.6	17.2
80°-90°	69.8	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°	4282.9	100.0
0°-180°	4282.9	100.0

Coefficient of Utilization



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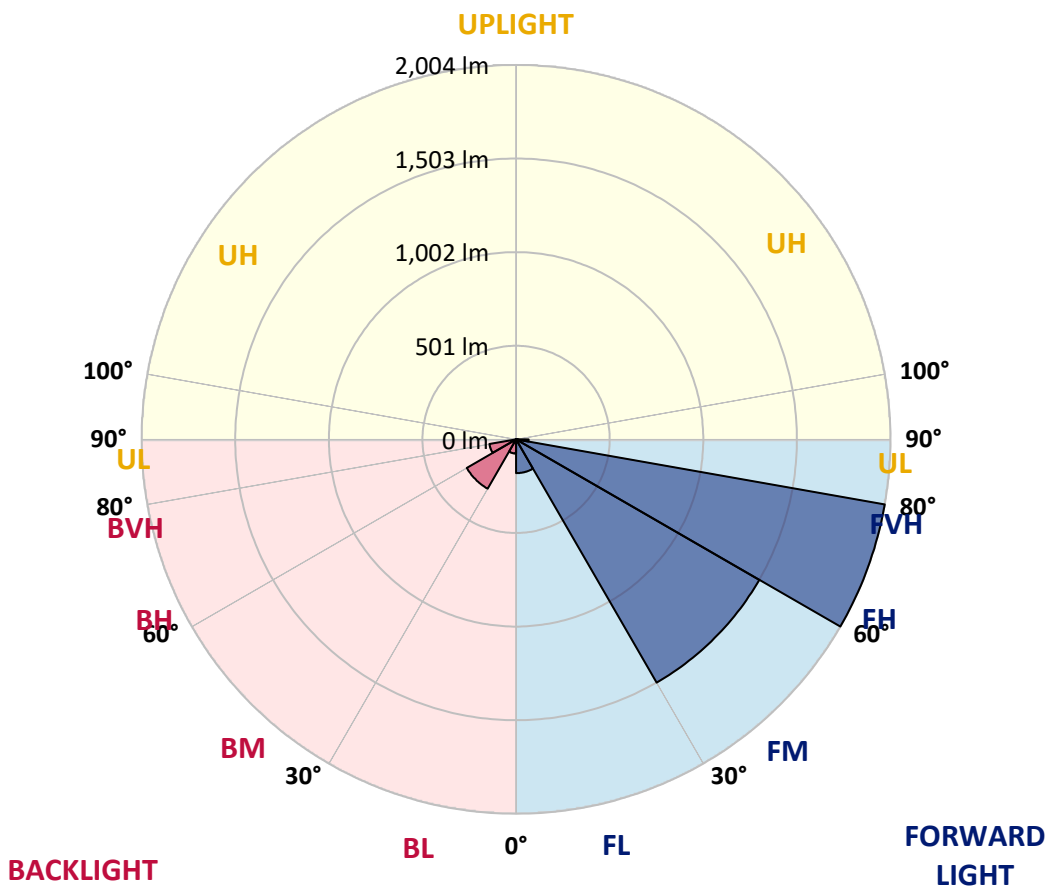
CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.9	4.2			
FM (30°-60°)	1503.2	35.1			
FH (60°-80°)	2003.6	46.8			G2/5000
FVH (80°-90°)	66.6	1.6			G1/100
BL (0°-30°)	75.8	1.8	B0/110		
BM (30°-60°)	304.8	7.1	B1/1000		
BH (60°-80°)	144.8	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°	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6
2.5°	227.1	228.1	229.1	232.5	235.0	237.0	237.5	236.0	232.5	229.1	224.1
5°	220.1	221.1	224.6	234.0	243.4	250.8	253.3	251.8	243.4	232.5	221.1
7.5°	219.7	221.6	230.0	249.8	270.1	285.4	289.4	285.9	270.1	248.3	225.1
10°	237.5	240.9	253.3	288.9	326.0	353.2	364.1	349.3	324.0	284.5	246.4
12.5°	284.0	289.9	313.6	365.6	423.0	459.1	473.9	455.6	416.1	358.7	298.3
15°	357.2	366.1	401.7	479.4	547.2	579.3	584.3	573.9	527.9	464.5	383.4
17.5°	460.6	473.4	528.8	608.0	657.0	668.4	666.9	656.0	622.3	578.8	502.1
20°	584.3	599.6	654.0	719.3	724.3	710.9	703.5	697.1	685.7	678.3	618.4
22.5°	708.9	727.7	784.6	800.9	756.4	717.8	699.5	704.5	721.3	757.9	733.7
25°	833.1	850.9	904.3	860.3	771.3	706.9	683.7	695.6	735.6	814.8	846.0
27.5°	978.0	991.4	1023.1	900.9	773.7	698.0	675.3	693.6	742.6	850.4	969.1
30°	1128.9	1136.9	1121.5	911.8	765.3	684.7	666.9	693.6	754.4	874.2	1061.7
32.5°	1239.8	1241.2	1191.3	912.7	760.9	673.8	659.0	690.6	765.8	893.9	1151.2
35°	1354.0	1346.6	1258.1	927.6	772.7	677.8	664.9	699.0	783.6	917.2	1229.9
37.5°	1469.8	1456.4	1332.8	951.8	803.4	720.8	712.9	742.1	812.3	949.4	1316.4
40°	1588.5	1570.2	1410.4	988.4	871.7	867.2	894.4	891.0	891.0	990.4	1405.5
42.5°	1733.5	1712.2	1525.2	1091.8	1031.0	1130.4	1204.6	1158.6	1073.5	1084.9	1521.2
45°	1924.9	1906.6	1724.1	1289.7	1280.8	1509.4	1609.3	1518.3	1306.5	1303.1	1714.7
47.5°	2231.2	2227.7	2041.2	1519.3	1586.5	1991.7	2184.7	2009.5	1572.2	1534.1	2080.8
50°	2661.6	2651.2	2436.5	1788.4	1950.2	2589.3	2933.7	2641.8	1893.3	1803.7	2571.0
52.5°	3146.4	3157.3	2990.0	2082.2	2336.5	3254.2	3733.6	3366.0	2242.0	2146.6	3187.9
55°	3603.0	3665.3	3621.3	2426.1	2714.0	3988.4	4612.2	4160.5	2673.9	2595.3	3879.5
57.5°	3960.2	4135.8	4444.5	2925.7	3157.8	4847.2	5593.2	5021.8	3178.0	3324.0	4821.0
60°	3980.0	4212.5	4929.3	3971.1	3728.7	5583.8	6572.8	5863.3	3970.6	4561.3	5558.6
62.5°	3681.7	3931.0	4613.7	4446.0	4350.5	6210.6	7075.4	6476.8	4750.2	5286.0	5339.9
65°	3340.3	3592.1	4261.5	3907.2	4278.3	6183.9	6947.8	6491.1	4821.0	4793.3	4948.6
67.5°	2824.3	3050.4	3656.4	3458.5	3943.4	5885.6	6358.1	6082.0	4441.5	4483.1	4552.4
70°	2061.5	2279.1	2841.6	2851.5	3443.7	5347.9	5463.1	5425.0	4090.3	4134.3	3936.4
72.5°	1489.1	1672.6	2157.9	2338.5	2749.1	4484.6	4404.9	4551.9	3509.5	3682.2	3161.7
75°	1070.6	1208.1	1583.1	2034.3	2179.2	3330.4	3153.3	3525.3	2815.9	3170.6	2377.1
77.5°	434.4	482.8	622.8	1370.4	1432.2	2240.6	1930.4	2560.6	2007.5	2083.2	1152.2
80°	17.8	19.8	25.7	707.4	982.0	1260.5	1033.0	1368.9	1325.8	839.0	272.1
82.5°	2.0	2.0	4.5	203.8	429.9	695.6	486.8	788.6	671.3	355.7	123.7
85°	0.5	0.5	1.0	23.3	100.9	111.3	65.8	241.9	312.2	145.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.5	4.9	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°	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6
2.5°	224.1	221.6	218.7	215.7	214.2	210.3	208.8	207.8	206.8	207.3	207.3
5°	216.7	211.2	204.8	198.4	194.9	191.0	189.0	188.0	188.5	190.5	190.5
7.5°	215.7	205.3	191.5	183.0	179.1	176.1	174.1	173.1	173.6	176.1	177.1
10°	232.0	213.7	189.0	174.6	170.2	167.2	165.2	163.8	162.8	164.7	165.2
12.5°	267.1	241.9	200.9	173.6	165.7	161.8	160.3	157.3	155.8	156.8	157.3
15°	339.9	296.3	224.6	177.6	161.8	157.3	154.8	152.4	149.9	149.4	149.9
17.5°	434.9	372.5	260.7	187.0	158.8	153.4	149.9	146.4	143.0	142.5	142.0
20°	552.6	466.0	311.2	201.8	156.3	149.9	145.0	140.0	135.6	134.1	134.1
22.5°	659.9	578.8	376.0	220.1	152.9	145.0	139.0	133.1	128.1	125.7	125.2
25°	791.0	698.5	453.7	241.4	147.9	138.5	132.1	126.2	121.2	118.2	117.2
27.5°	923.1	824.7	541.7	269.1	142.0	132.1	126.2	120.7	115.3	111.8	110.8
30°	1051.3	960.7	640.7	303.8	137.5	125.7	120.7	115.3	110.3	104.9	103.4
32.5°	1188.8	1099.7	751.5	342.3	134.1	121.2	115.8	110.8	104.4	99.4	97.0
35°	1321.4	1243.2	873.7	379.9	130.6	117.2	111.3	106.4	99.4	94.0	90.5
37.5°	1455.0	1389.2	1001.3	402.7	125.7	111.8	106.4	102.4	94.5	88.1	84.1
40°	1596.4	1540.0	1139.3	393.3	121.2	105.9	102.9	98.4	89.5	82.1	77.2
42.5°	1751.8	1684.0	1279.8	357.2	117.2	100.9	98.0	93.5	85.1	76.2	69.8
45°	1947.2	1841.8	1395.1	302.8	119.2	96.0	90.0	89.0	81.1	69.8	61.8
47.5°	2283.1	2084.2	1484.6	267.6	132.6	90.5	83.6	86.1	77.7	63.3	54.4
50°	2797.1	2485.9	1568.2	265.2	152.9	88.1	77.7	84.1	74.2	56.9	48.0
52.5°	3286.9	2894.1	1621.7	286.9	170.7	94.5	71.7	81.6	71.7	52.4	43.5
55°	3755.4	3129.6	1526.2	302.8	187.5	113.8	67.3	77.7	68.8	50.0	42.1
57.5°	4260.5	3234.4	1201.7	334.9	199.4	130.1	68.3	71.7	64.8	48.5	41.6
60°	4411.4	3100.4	725.3	377.0	192.9	135.1	75.7	63.8	59.4	45.5	40.1
62.5°	4176.9	2782.3	427.9	343.3	187.5	127.6	86.6	58.9	53.9	41.6	37.1
65°	3826.1	2350.4	279.0	289.9	198.9	113.8	92.0	56.4	49.0	37.6	32.7
67.5°	3425.4	1893.3	195.4	171.2	183.5	102.4	77.7	55.9	44.0	31.7	26.7
70°	2885.2	1417.8	137.5	113.3	152.9	91.0	60.4	54.4	38.6	25.7	20.8
72.5°	2229.2	887.5	102.4	73.2	108.8	74.2	48.0	46.0	31.2	21.3	15.8
75°	1643.9	506.1	72.2	52.9	71.7	56.4	35.6	32.7	26.7	20.3	14.3
77.5°	858.3	253.3	45.0	40.6	41.1	35.1	25.7	23.7	24.7	20.3	13.4
80°	164.7	50.5	27.2	29.7	22.3	22.3	18.8	19.8	21.8	16.3	11.4
82.5°	68.8	10.9	14.8	16.8	13.9	15.3	15.3	15.8	15.3	11.9	8.4
85°	0.0	0.0	6.4	6.9	9.4	9.4	7.9	7.9	7.9	6.9	4.9
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°	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6
2.5°	206.8	205.8	207.3	208.3	209.3	209.3	208.3	207.3	205.8	207.3	205.8
5°	191.0	192.4	194.9	195.9	196.9	194.9	193.9	191.0	188.5	189.0	188.0
7.5°	178.6	180.1	183.0	185.0	185.0	184.0	181.1	178.1	174.1	174.1	173.6
10°	167.2	169.2	172.7	175.1	176.1	175.1	172.2	168.2	164.7	164.7	163.3
12.5°	157.8	160.3	164.2	167.7	168.7	167.7	164.7	160.8	156.8	156.8	155.8
15°	149.9	152.9	157.3	161.3	162.8	161.3	157.8	152.9	148.9	149.4	147.9
17.5°	142.5	145.0	150.9	155.3	156.8	155.3	150.9	144.5	140.5	141.5	140.5
20°	134.1	137.0	143.0	147.9	149.4	147.9	143.0	136.0	132.1	132.1	132.6
22.5°	125.2	128.1	134.1	137.5	139.5	138.0	133.1	126.6	122.7	122.7	123.2
25°	117.2	118.7	123.2	126.6	127.1	125.7	121.7	116.8	113.8	115.3	115.8
27.5°	109.8	109.8	111.8	113.8	113.3	111.8	110.3	106.4	105.9	107.4	108.8
30°	101.9	99.4	98.4	97.0	96.5	96.0	97.5	97.5	98.4	100.4	101.9
32.5°	95.0	90.0	85.6	81.1	78.7	80.6	84.6	88.1	91.5	94.5	96.0
35°	87.1	79.2	71.7	65.8	61.8	64.8	71.2	77.7	83.6	87.6	90.0
37.5°	79.2	67.8	58.9	51.5	48.5	51.0	57.9	66.8	75.7	80.6	84.1
40°	70.7	56.4	46.0	40.1	37.1	39.6	46.5	55.4	67.3	73.7	78.2
42.5°	62.3	46.5	37.1	31.2	29.7	31.2	36.6	45.5	58.4	66.3	72.2
45°	53.9	38.6	29.7	25.2	23.7	25.2	29.7	37.1	50.0	58.9	65.8
47.5°	46.5	32.7	24.7	20.8	19.8	21.3	24.7	31.2	42.1	51.0	58.9
50°	40.6	28.7	21.3	17.8	16.8	18.3	21.3	26.2	35.6	43.5	51.9
52.5°	36.6	26.7	18.8	15.3	14.8	15.8	18.3	22.3	30.2	37.1	45.0
55°	35.6	26.7	17.3	13.9	13.4	14.3	16.3	19.3	26.2	32.2	39.1
57.5°	36.6	28.7	16.3	11.9	11.4	12.4	14.3	16.8	22.8	27.7	34.1
60°	36.6	29.2	14.3	9.4	8.9	9.9	11.9	14.8	20.3	24.2	29.7
62.5°	33.1	26.7	11.9	7.4	6.4	7.4	9.9	12.4	17.8	21.8	26.2
65°	28.7	22.8	9.9	5.4	4.5	5.4	7.9	10.4	15.3	18.8	23.7
67.5°	23.3	17.3	7.4	4.0	3.0	4.0	5.9	8.4	12.9	16.3	21.3
70°	17.3	12.4	5.9	3.5	3.0	3.5	5.4	7.9	11.4	14.8	19.8
72.5°	12.9	8.4	4.9	3.5	2.5	3.5	4.9	7.4	10.9	14.3	18.8
75°	10.9	6.9	4.5	3.0	2.5	3.0	4.5	6.9	9.9	13.4	17.8
77.5°	10.4	6.4	4.0	2.5	2.0	2.5	4.0	5.9	8.9	12.4	17.3
80°	8.9	5.4	3.5	2.0	1.5	2.0	3.5	4.9	6.9	9.4	13.4
82.5°	6.9	4.5	2.5	1.0	0.5	1.0	2.5	3.0	4.5	5.4	7.9
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°	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6	222.6
2.5°	208.8	209.3	210.3	211.7	215.2	218.2	221.1	225.1	227.1	227.1
5°	189.0	189.5	190.0	191.9	196.9	200.9	207.3	215.2	219.2	220.1
7.5°	173.6	174.6	175.6	177.1	182.1	187.5	195.9	210.7	218.2	219.7
10°	164.7	166.2	168.2	171.2	175.6	181.6	195.9	222.6	235.0	237.5
12.5°	157.8	160.3	162.3	165.7	171.2	180.6	209.3	256.3	278.0	284.0
15°	150.9	153.9	156.8	160.3	166.2	184.0	235.0	316.6	352.7	357.2
17.5°	144.0	147.4	151.4	155.3	162.8	192.4	275.6	400.2	450.7	460.6
20°	136.0	140.5	145.9	150.9	159.3	205.8	332.0	499.7	563.0	584.3
22.5°	127.6	133.1	139.5	145.9	155.3	222.1	400.2	606.5	695.1	708.9
25°	120.7	126.2	132.1	138.5	148.9	241.9	482.8	739.1	819.7	833.1
27.5°	114.3	119.7	125.2	131.1	142.5	267.6	582.3	880.1	964.2	978.0
30°	107.4	113.8	119.2	125.2	136.5	299.3	697.1	1036.4	1116.1	1128.9
32.5°	101.4	107.8	113.3	119.2	132.1	333.9	817.8	1174.9	1239.8	1239.8
35°	96.5	103.4	107.4	115.3	128.6	356.2	932.0	1307.0	1356.0	1354.0
37.5°	91.0	99.4	102.4	107.8	124.2	358.7	1039.4	1446.5	1482.7	1469.8
40°	85.6	94.5	98.9	101.9	119.2	338.4	1157.1	1574.7	1605.3	1588.5
42.5°	80.6	87.6	94.0	97.5	116.3	302.8	1251.6	1711.7	1748.3	1733.5
45°	75.7	81.6	85.6	92.0	118.2	278.0	1332.8	1871.5	1935.8	1924.9
47.5°	70.7	75.7	78.2	88.1	131.6	266.7	1382.2	2118.9	2240.1	2231.2
50°	65.3	71.2	71.2	87.1	151.4	270.6	1425.3	2477.0	2664.5	2661.6
52.5°	59.9	66.3	65.3	94.5	166.7	288.9	1474.2	2793.2	3119.2	3146.4
55°	54.4	60.4	61.3	109.3	175.6	304.7	1284.8	2926.2	3507.5	3603.0
57.5°	48.5	51.9	63.8	120.7	172.7	350.8	880.1	2950.5	3755.4	3960.2
60°	42.1	45.0	72.2	118.2	163.3	324.0	554.1	2732.8	3720.2	3980.0
62.5°	36.6	41.6	76.2	104.4	166.2	281.0	353.2	2329.1	3385.3	3681.7
65°	32.2	40.1	69.3	94.5	168.2	190.5	238.5	1894.8	3058.3	3340.3
67.5°	28.7	44.5	56.9	84.1	144.5	134.1	163.8	1472.3	2571.5	2824.3
70°	26.2	45.5	46.5	72.2	111.8	86.1	107.8	990.9	1772.6	2061.5
72.5°	23.7	33.6	35.1	57.9	72.2	52.4	69.8	566.9	1292.2	1489.1
75°	22.8	22.8	24.2	37.6	40.1	38.1	45.0	338.4	926.6	1070.6
77.5°	21.3	17.3	15.3	24.2	21.8	27.2	26.7	150.4	401.7	434.4
80°	16.8	12.4	10.4	15.3	14.8	18.3	15.8	12.4	18.3	17.8
82.5°	10.4	7.9	7.4	9.4	8.4	9.4	7.4	2.0	2.0	2.0
85°	4.9	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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