

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: P636835

Luminaire Tested: GWS-SA4B-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636835
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-SA4B-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9188.5 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

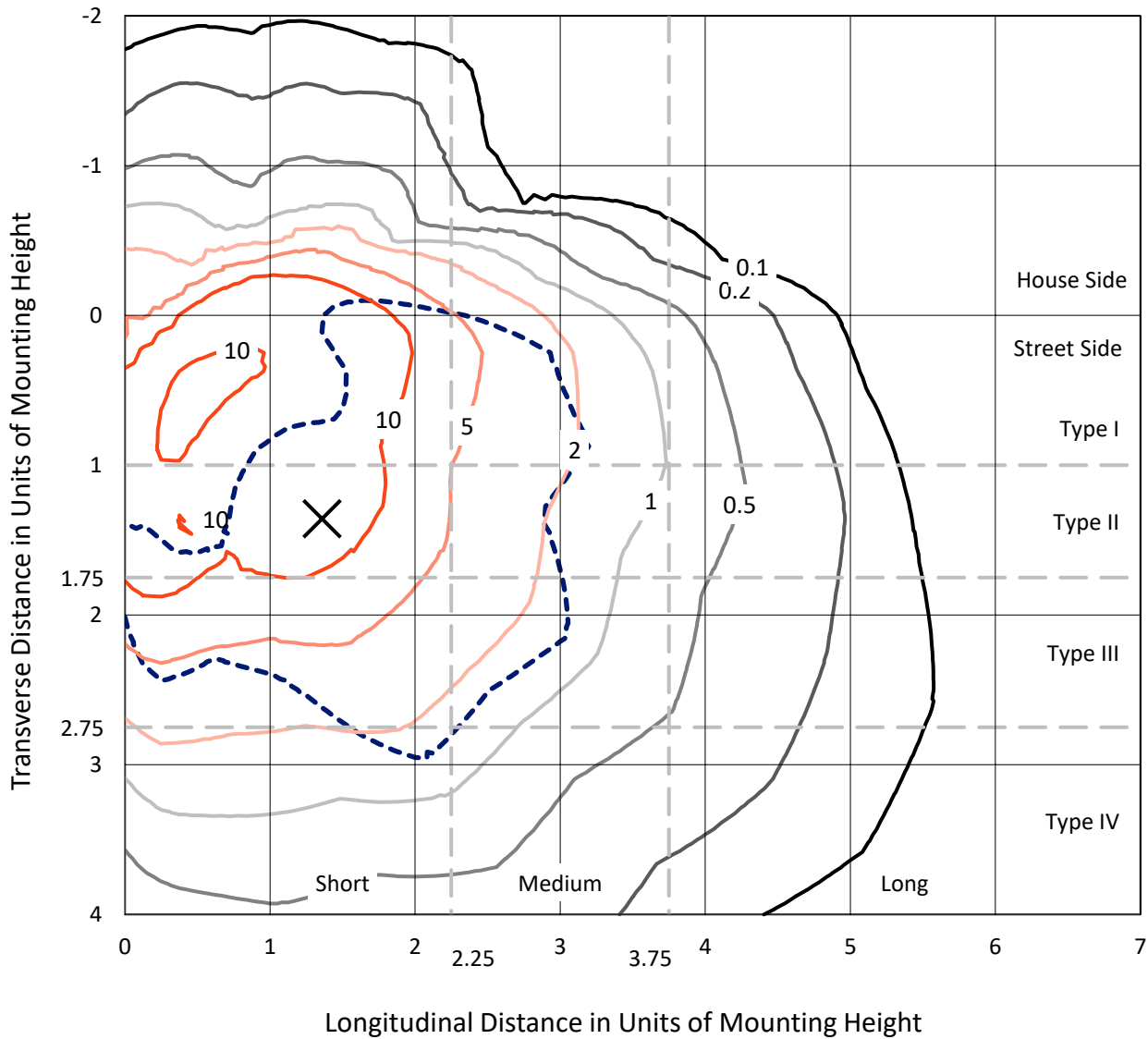
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

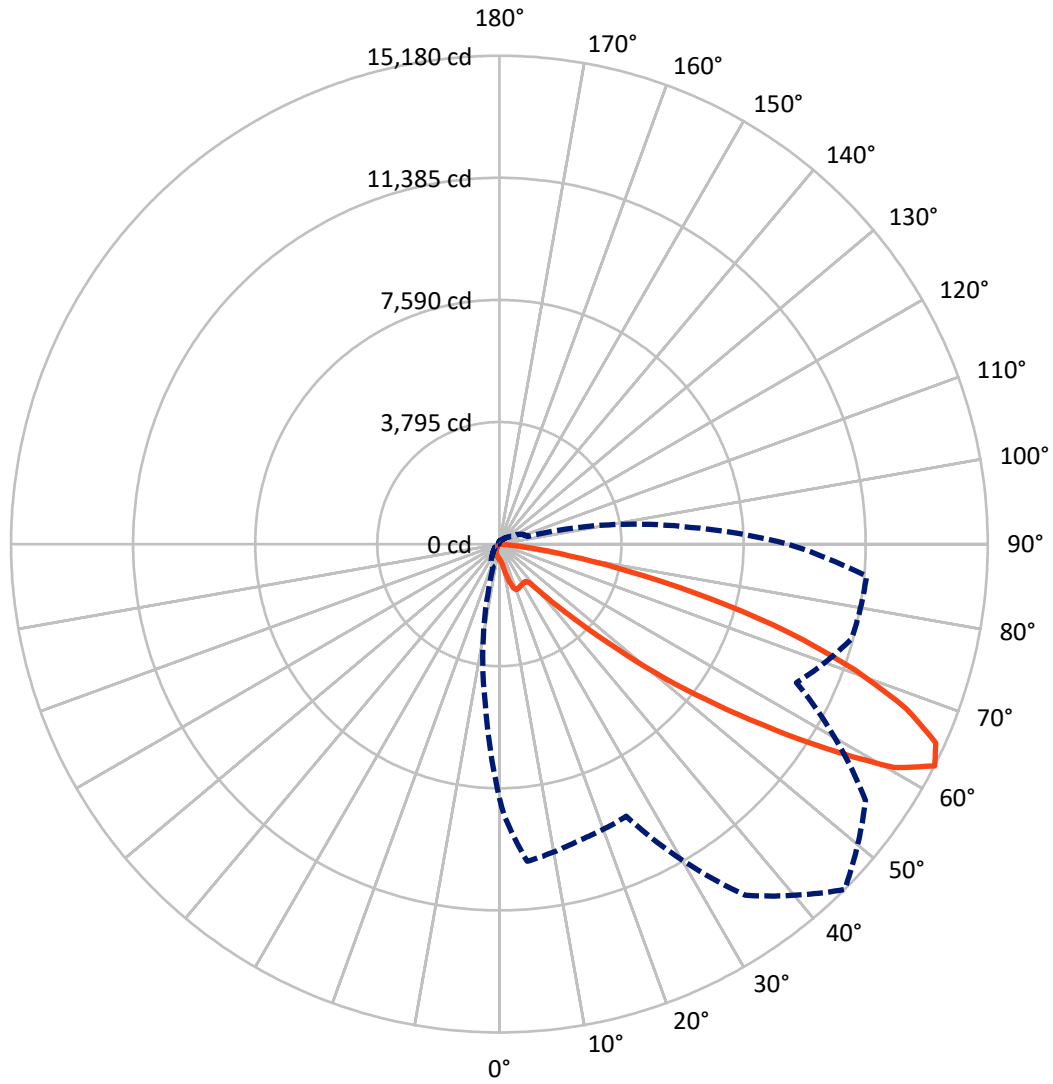
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 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	1133.8	0.0	1133.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8054.7	0.0	8054.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	9188.5	0.0	9188.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	0.5
10°-20°	160.2	1.7
20°-30°	348.2	3.8
30°-40°	571.6	6.2
40°-50°	1050.8	11.4
50°-60°	2256.6	24.6
60°-70°	3030.9	33.0
70°-80°	1578.2	17.2
80°-90°	149.6	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°	9188.5	100.0
0°-180°	9188.5	100.0

Coefficient of Utilization

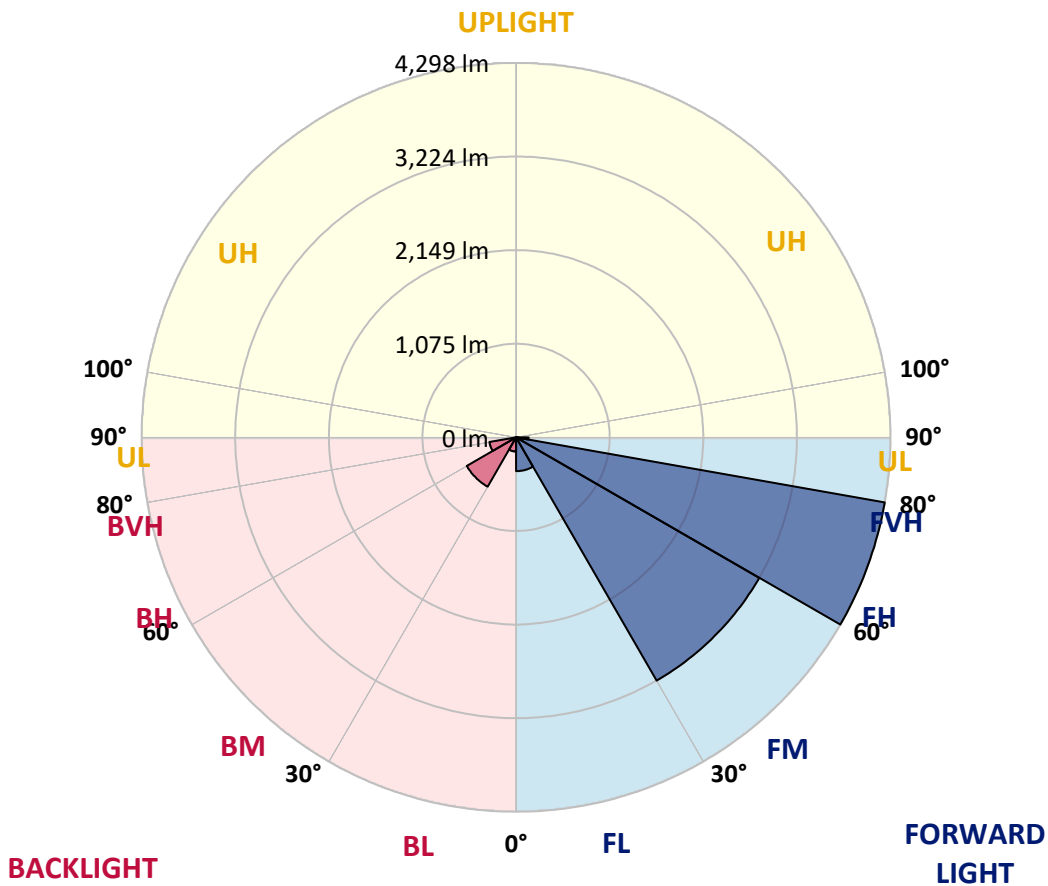


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.2	4.2			
FM (30°-60°)	3225.1	35.1			
FH (60°-80°)	4298.5	46.8			G2/5000
FVH (80°-90°)	143.0	1.6			G2/225
BL (0°-30°)	162.6	1.8	B1/500		
BM (30°-60°)	653.8	7.1	B1/1000		
BH (60°-80°)	310.7	3.4	B1/500		G1/500
BVH (80°-90°)	6.7	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°	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6
2.5°	487.2	489.3	491.4	498.8	504.1	508.4	509.5	506.3	498.8	491.4	480.8
5°	472.3	474.4	481.9	502.0	522.2	538.1	543.4	540.2	522.2	498.8	474.4
7.5°	471.2	475.5	493.5	536.0	579.5	612.4	620.9	613.5	579.5	532.8	482.9
10°	509.5	516.9	543.4	619.8	699.4	757.8	781.2	749.3	695.2	610.3	528.6
12.5°	609.2	622.0	672.9	784.3	907.5	984.9	1016.8	977.5	892.6	769.5	640.0
15°	766.3	785.4	861.8	1028.5	1173.9	1242.8	1253.5	1231.2	1132.5	996.6	822.5
17.5°	988.1	1015.7	1134.6	1304.4	1409.5	1433.9	1430.7	1407.4	1335.2	1241.8	1077.3
20°	1253.5	1286.4	1403.1	1543.2	1553.8	1525.2	1509.2	1495.4	1471.0	1455.1	1326.7
22.5°	1520.9	1561.3	1683.3	1718.3	1622.8	1540.0	1500.8	1511.4	1547.5	1626.0	1574.0
25°	1787.3	1825.5	1940.2	1845.7	1654.7	1516.7	1466.8	1492.3	1578.2	1748.1	1814.9
27.5°	2098.3	2127.0	2194.9	1932.7	1660.0	1497.6	1448.7	1488.0	1593.1	1824.5	2079.2
30°	2422.0	2439.0	2406.1	1956.1	1641.9	1468.9	1430.7	1488.0	1618.6	1875.4	2277.7
32.5°	2659.8	2662.9	2555.7	1958.2	1632.4	1445.6	1413.7	1481.7	1643.0	1917.9	2469.8
35°	2904.9	2889.0	2699.0	1990.0	1657.8	1454.1	1426.5	1499.7	1681.2	1967.8	2638.5
37.5°	3153.3	3124.6	2859.3	2042.0	1723.6	1546.4	1529.4	1592.0	1742.7	2036.7	2824.3
40°	3408.0	3368.7	3025.9	2120.6	1870.1	1860.6	1918.9	1911.5	1911.5	2124.8	3015.3
42.5°	3719.0	3673.3	3272.2	2342.4	2211.9	2425.2	2584.4	2485.7	2303.1	2327.6	3263.7
45°	4129.7	4090.5	3698.8	2767.0	2747.8	3238.2	3452.6	3257.3	2803.0	2795.6	3678.7
47.5°	4786.7	4779.3	4379.2	3259.4	3403.8	4273.0	4686.9	4311.2	3373.0	3291.3	4464.1
50°	5710.1	5687.8	5227.2	3836.8	4183.9	5555.1	6293.8	5667.6	4061.8	3869.7	5515.9
52.5°	6750.2	6773.6	6414.8	4467.2	5012.8	6981.6	8010.0	7221.5	4810.1	4605.2	6839.4
55°	7729.8	7863.6	7769.1	5204.9	5822.6	8556.6	9895.0	8926.0	5736.6	5567.9	8323.1
57.5°	8496.1	8872.9	9535.2	6276.9	6774.6	10399.2	11999.7	10773.8	6818.1	7131.2	10342.9
60°	8538.6	9037.4	10575.3	8519.5	7999.4	11979.5	14101.2	12579.2	8518.4	9785.7	11925.4
62.5°	7898.6	8433.5	9898.2	9538.4	9333.6	13324.2	15179.5	13895.3	10191.1	11340.6	11456.3
65°	7166.3	7706.5	9142.5	8382.6	9178.6	13266.9	14905.7	13926.0	10342.9	10283.5	10616.7
67.5°	6059.3	6544.3	7844.5	7419.9	8460.1	12626.9	13640.5	13048.3	9528.8	9618.0	9766.6
70°	4422.7	4889.7	6096.4	6117.6	7388.1	11473.2	11720.5	11638.8	8775.3	8869.7	8445.2
72.5°	3194.7	3588.4	4629.6	5017.0	5897.9	9621.2	9450.3	9765.5	7529.3	7899.7	6783.1
75°	2296.8	2591.8	3396.3	4364.3	4675.3	7145.0	6765.1	7563.2	6041.2	6802.2	5099.8
77.5°	931.9	1035.9	1336.2	2940.0	3072.6	4806.9	4141.4	5493.6	4307.0	4469.4	2471.9
80°	38.2	42.5	55.2	1517.7	2106.8	2704.3	2216.1	2936.8	2844.4	1800.1	583.7
82.5°	4.2	4.2	9.6	437.3	922.3	1492.3	1044.4	1691.8	1440.3	763.1	265.3
85°	1.1	1.1	2.1	49.9	216.5	238.8	141.2	519.0	669.7	312.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9.6	10.6	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°	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6
2.5°	480.8	475.5	469.1	462.8	459.6	451.1	447.9	445.8	443.6	444.7	444.7
5°	464.9	453.2	439.4	425.6	418.2	409.7	405.4	403.3	404.4	408.6	408.6
7.5°	462.8	440.5	410.7	392.7	384.2	377.8	373.6	371.5	372.5	377.8	380.0
10°	497.8	458.5	405.4	374.7	365.1	358.7	354.5	351.3	349.2	353.4	354.5
12.5°	573.1	519.0	430.9	372.5	355.6	347.1	343.9	337.5	334.3	336.4	337.5
15°	729.2	635.8	481.9	381.0	347.1	337.5	332.2	326.9	321.6	320.5	321.6
17.5°	932.9	799.2	559.3	401.2	340.7	329.0	321.6	314.2	306.7	305.7	304.6
20°	1185.5	999.8	667.6	433.0	335.4	321.6	311.0	300.4	290.8	287.6	287.6
22.5°	1415.8	1241.8	806.6	472.3	328.0	311.0	298.2	285.5	274.9	269.6	268.5
25°	1697.1	1498.6	973.3	517.9	317.3	297.2	283.4	270.6	260.0	253.7	251.5
27.5°	1980.5	1769.3	1162.2	577.4	304.6	283.4	270.6	259.0	247.3	239.9	237.7
30°	2255.4	2061.2	1374.5	651.7	295.1	269.6	259.0	247.3	236.7	225.0	221.8
32.5°	2550.4	2359.4	1612.2	734.5	287.6	260.0	248.4	237.7	223.9	213.3	208.0
35°	2834.9	2667.2	1874.4	815.1	280.2	251.5	238.8	228.2	213.3	201.7	194.2
37.5°	3121.4	2980.3	2148.2	863.9	269.6	239.9	228.2	219.7	202.7	188.9	180.4
40°	3425.0	3304.0	2444.3	843.8	260.0	227.1	220.8	211.2	192.1	176.2	165.6
42.5°	3758.3	3612.9	2745.7	766.3	251.5	216.5	210.1	200.6	182.6	163.4	149.7
45°	4177.5	3951.4	2993.0	649.5	255.8	205.9	193.2	191.0	174.1	149.7	132.7
47.5°	4898.2	4471.5	3185.1	574.2	284.4	194.2	179.4	184.7	166.6	135.9	116.7
50°	6000.9	5333.3	3364.5	568.9	328.0	188.9	166.6	180.4	159.2	122.1	103.0
52.5°	7051.6	6208.9	3479.1	615.6	366.2	202.7	153.9	175.1	153.9	112.5	93.4
55°	8056.7	6714.1	3274.3	649.5	402.3	244.1	144.3	166.6	147.5	107.2	90.2
57.5°	9140.4	6939.1	2578.0	718.5	427.7	279.1	146.5	153.9	139.0	104.0	89.2
60°	9464.1	6651.5	1555.9	808.8	413.9	289.7	162.4	136.9	127.4	97.6	86.0
62.5°	8961.0	5969.1	918.1	736.6	402.3	273.8	185.7	126.3	115.7	89.2	79.6
65°	8208.5	5042.5	598.6	622.0	426.7	244.1	197.4	121.0	105.1	80.7	70.0
67.5°	7348.8	4061.8	419.2	367.2	393.8	219.7	166.6	119.9	94.5	67.9	57.3
70°	6189.8	3041.8	295.1	243.1	328.0	195.3	129.5	116.7	82.8	55.2	44.6
72.5°	4782.5	1904.1	219.7	157.1	233.5	159.2	103.0	98.7	66.9	45.6	34.0
75°	3526.9	1085.8	155.0	113.6	153.9	121.0	76.4	70.0	57.3	43.5	30.8
77.5°	1841.5	543.4	96.6	87.0	88.1	75.4	55.2	50.9	53.1	43.5	28.7
80°	353.4	108.3	58.4	63.7	47.8	47.8	40.3	42.5	46.7	35.0	24.4
82.5°	147.5	23.3	31.8	36.1	29.7	32.9	32.9	34.0	32.9	25.5	18.0
85°	0.0	0.0	13.8	14.9	20.2	20.2	17.0	17.0	17.0	14.9	10.6
87.5°	0.0	0.0	0.0	0.0	1.1	3.2	6.4	7.4	8.5	6.4	4.2
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°	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6
2.5°	443.6	441.5	444.7	446.8	449.0	449.0	446.8	444.7	441.5	444.7	441.5
5°	409.7	412.9	418.2	420.3	422.4	418.2	416.1	409.7	404.4	405.4	403.3
7.5°	383.1	386.3	392.7	396.9	396.9	394.8	388.5	382.1	373.6	373.6	372.5
10°	358.7	363.0	370.4	375.7	377.8	375.7	369.4	360.9	353.4	353.4	350.2
12.5°	338.6	343.9	352.4	359.8	361.9	359.8	353.4	344.9	336.4	336.4	334.3
15°	321.6	328.0	337.5	346.0	349.2	346.0	338.6	328.0	319.5	320.5	317.3
17.5°	305.7	311.0	323.7	333.3	336.4	333.3	323.7	309.9	301.4	303.5	301.4
20°	287.6	294.0	306.7	317.3	320.5	317.3	306.7	291.9	283.4	283.4	284.4
22.5°	268.5	274.9	287.6	295.1	299.3	296.1	285.5	271.7	263.2	263.2	264.3
25°	251.5	254.7	264.3	271.7	272.8	269.6	261.1	250.5	244.1	247.3	248.4
27.5°	235.6	235.6	239.9	244.1	243.1	239.9	236.7	228.2	227.1	230.3	233.5
30°	218.6	213.3	211.2	208.0	207.0	205.9	209.1	209.1	211.2	215.5	218.6
32.5°	203.8	193.2	183.6	174.1	168.8	173.0	181.5	188.9	196.4	202.7	205.9
35°	186.8	169.8	153.9	141.2	132.7	139.0	152.8	166.6	179.4	187.9	193.2
37.5°	169.8	145.4	126.3	110.4	104.0	109.3	124.2	143.3	162.4	173.0	180.4
40°	151.8	121.0	98.7	86.0	79.6	84.9	99.8	118.9	144.3	158.1	167.7
42.5°	133.7	99.8	79.6	66.9	63.7	66.9	78.5	97.6	125.2	142.2	155.0
45°	115.7	82.8	63.7	54.1	50.9	54.1	63.7	79.6	107.2	126.3	141.2
47.5°	99.8	70.0	53.1	44.6	42.5	45.6	53.1	66.9	90.2	109.3	126.3
50°	87.0	61.6	45.6	38.2	36.1	39.3	45.6	56.3	76.4	93.4	111.4
52.5°	78.5	57.3	40.3	32.9	31.8	34.0	39.3	47.8	64.7	79.6	96.6
55°	76.4	57.3	37.1	29.7	28.7	30.8	35.0	41.4	56.3	69.0	83.8
57.5°	78.5	61.6	35.0	25.5	24.4	26.5	30.8	36.1	48.8	59.4	73.2
60°	78.5	62.6	30.8	20.2	19.1	21.2	25.5	31.8	43.5	52.0	63.7
62.5°	71.1	57.3	25.5	15.9	13.8	15.9	21.2	26.5	38.2	46.7	56.3
65°	61.6	48.8	21.2	11.7	9.6	11.7	17.0	22.3	32.9	40.3	50.9
67.5°	49.9	37.1	15.9	8.5	6.4	8.5	12.7	18.0	27.6	35.0	45.6
70°	37.1	26.5	12.7	7.4	6.4	7.4	11.7	17.0	24.4	31.8	42.5
72.5°	27.6	18.0	10.6	7.4	5.3	7.4	10.6	15.9	23.3	30.8	40.3
75°	23.3	14.9	9.6	6.4	5.3	6.4	9.6	14.9	21.2	28.7	38.2
77.5°	22.3	13.8	8.5	5.3	4.2	5.3	8.5	12.7	19.1	26.5	37.1
80°	19.1	11.7	7.4	4.2	3.2	4.2	7.4	10.6	14.9	20.2	28.7
82.5°	14.9	9.6	5.3	2.1	1.1	2.1	5.3	6.4	9.6	11.7	17.0
85°	9.6	5.3	2.1	0.0	0.0	0.0	2.1	4.2	4.2	5.3	8.5
87.5°	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2
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°	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6	477.6
2.5°	447.9	449.0	451.1	454.3	461.7	468.1	474.4	482.9	487.2	487.2
5°	405.4	406.5	407.6	411.8	422.4	430.9	444.7	461.7	470.2	472.3
7.5°	372.5	374.7	376.8	380.0	390.6	402.3	420.3	452.1	468.1	471.2
10°	353.4	356.6	360.9	367.2	376.8	389.5	420.3	477.6	504.1	509.5
12.5°	338.6	343.9	348.1	355.6	367.2	387.4	449.0	549.8	596.5	609.2
15°	323.7	330.1	336.4	343.9	356.6	394.8	504.1	679.3	756.7	766.3
17.5°	308.9	316.3	324.8	333.3	349.2	412.9	591.2	858.6	966.9	988.1
20°	291.9	301.4	313.1	323.7	341.8	441.5	712.2	1072.0	1207.8	1253.5
22.5°	273.8	285.5	299.3	313.1	333.3	476.5	858.6	1301.2	1491.2	1520.9
25°	259.0	270.6	283.4	297.2	319.5	519.0	1035.9	1585.7	1758.7	1787.3
27.5°	245.2	256.8	268.5	281.3	305.7	574.2	1249.2	1888.2	2068.6	2098.3
30°	230.3	244.1	255.8	268.5	292.9	642.1	1495.4	2223.5	2394.4	2422.0
32.5°	217.6	231.4	243.1	255.8	283.4	716.4	1754.4	2520.7	2659.8	2659.8
35°	207.0	221.8	230.3	247.3	276.0	764.2	1999.6	2804.1	2909.2	2904.9
37.5°	195.3	213.3	219.7	231.4	266.4	769.5	2229.9	3103.4	3180.9	3153.3
40°	183.6	202.7	212.3	218.6	255.8	726.0	2482.5	3378.3	3444.1	3408.0
42.5°	173.0	187.9	201.7	209.1	249.4	649.5	2685.2	3672.3	3750.8	3719.0
45°	162.4	175.1	183.6	197.4	253.7	596.5	2859.3	4015.1	4153.1	4129.7
47.5°	151.8	162.4	167.7	188.9	282.3	572.1	2965.4	4545.8	4805.8	4786.7
50°	140.1	152.8	152.8	186.8	324.8	580.6	3057.8	5314.2	5716.5	5710.1
52.5°	128.4	142.2	140.1	202.7	357.7	619.8	3162.8	5992.4	6691.8	6750.2
55°	116.7	129.5	131.6	234.6	376.8	653.8	2756.3	6277.9	7525.0	7729.8
57.5°	104.0	111.4	136.9	259.0	370.4	752.5	1888.2	6329.9	8056.7	8496.1
60°	90.2	96.6	155.0	253.7	350.2	695.2	1188.7	5862.9	7981.4	8538.6
62.5°	78.5	89.2	163.4	223.9	356.6	602.8	757.8	4996.9	7262.9	7898.6
65°	69.0	86.0	148.6	202.7	360.9	408.6	511.6	4065.0	6561.3	7166.3
67.5°	61.6	95.5	122.1	180.4	309.9	287.6	351.3	3158.6	5516.9	6059.3
70°	56.3	97.6	99.8	155.0	239.9	184.7	231.4	2125.9	3802.8	4422.7
72.5°	50.9	72.2	75.4	124.2	155.0	112.5	149.7	1216.3	2772.3	3194.7
75°	48.8	48.8	52.0	80.7	86.0	81.7	96.6	726.0	1987.9	2296.8
77.5°	45.6	37.1	32.9	52.0	46.7	58.4	57.3	322.7	861.8	931.9
80°	36.1	26.5	22.3	32.9	31.8	39.3	34.0	26.5	39.3	38.2
82.5°	22.3	17.0	15.9	20.2	18.0	20.2	15.9	4.2	4.2	4.2
85°	10.6	9.6	8.5	8.5	9.6	8.5	6.4	2.1	1.1	1.1
87.5°	5.3	5.3	4.2	3.2	4.2	4.2	3.2	1.1	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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