

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: P636780

Luminaire Tested: GWS-SA4B-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636780
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8982.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

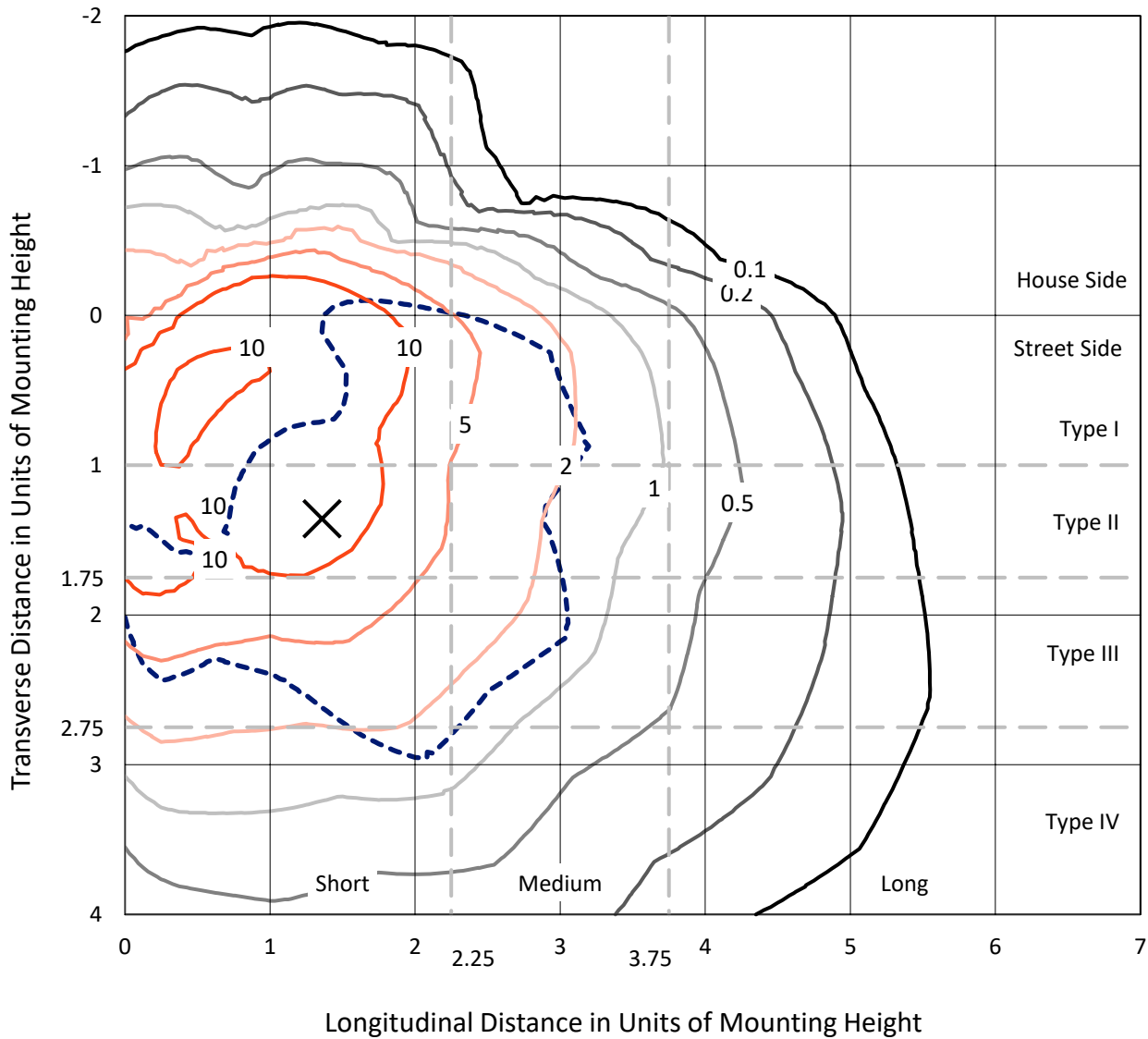
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

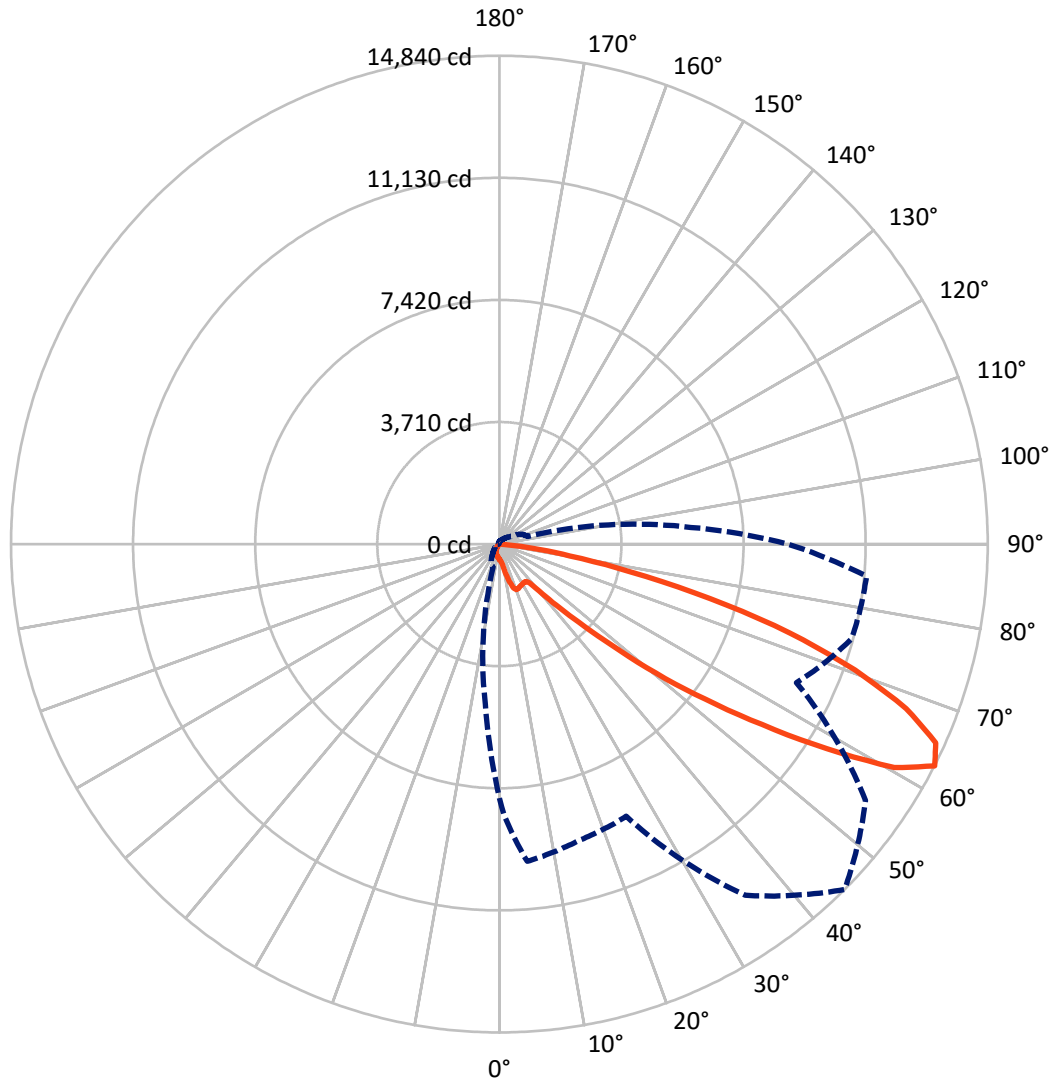
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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	1108.5	0.0	1108.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7874.2	0.0	7874.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	8982.7	0.0	8982.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	0.5
10°-20°	156.6	1.7
20°-30°	340.4	3.8
30°-40°	558.8	6.2
40°-50°	1027.2	11.4
50°-60°	2206.0	24.6
60°-70°	2963.0	33.0
70°-80°	1542.9	17.2
80°-90°	146.3	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°	8982.7	100.0
0°-180°	8982.7	100.0

Coefficient of Utilization



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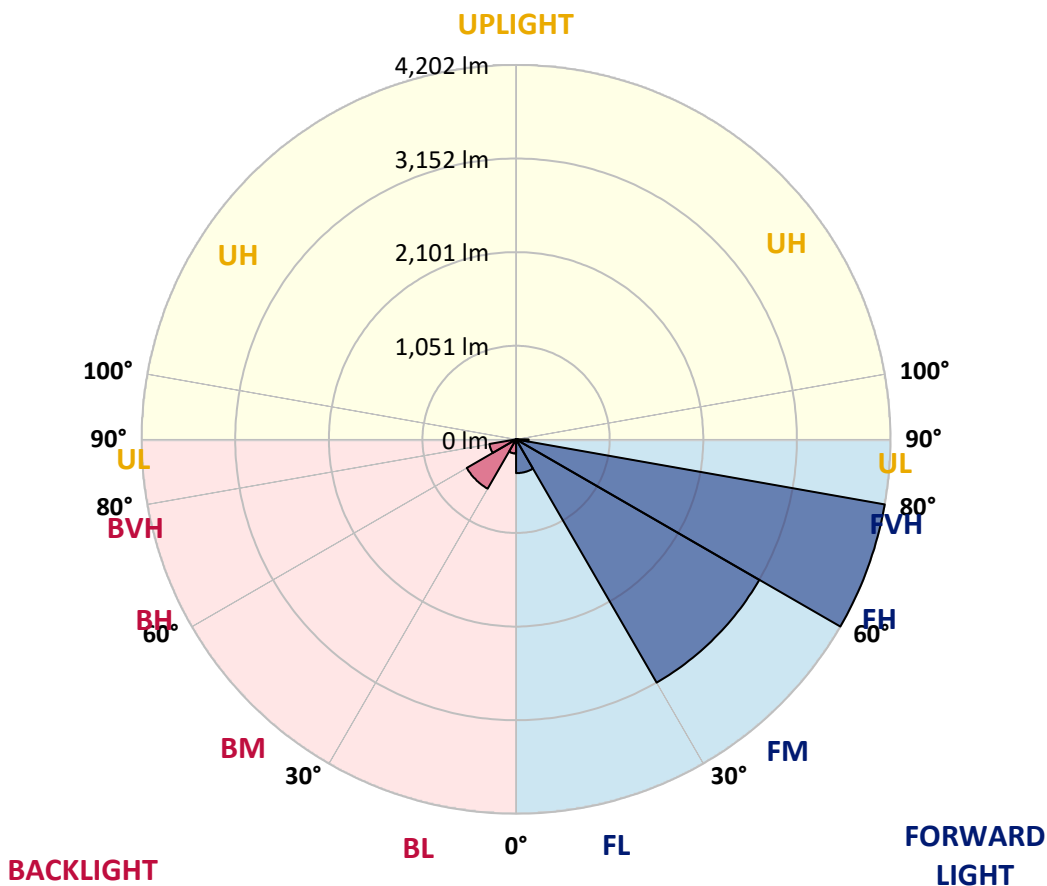
CATALOG NUMBER: GWS-SA4B-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.5	4.2			
FM (30°-60°)	3152.8	35.1			
FH (60°-80°)	4202.2	46.8			G2/5000
FVH (80°-90°)	139.8	1.6			G2/225
BL (0°-30°)	159.0	1.8	B1/500		
BM (30°-60°)	639.2	7.1	B1/1000		
BH (60°-80°)	303.7	3.4	B1/500		G1/500
BVH (80°-90°)	6.5	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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	476.3	478.3	480.4	487.7	492.9	497.0	498.0	494.9	487.7	480.4	470.0
5°	461.7	463.8	471.1	490.8	510.5	526.1	531.2	528.1	510.5	487.7	463.8
7.5°	460.7	464.8	482.5	524.0	566.5	598.7	607.0	599.7	566.5	520.9	472.1
10°	498.0	505.3	531.2	605.9	683.8	740.8	763.7	732.5	679.6	596.6	516.7
12.5°	595.6	608.0	657.8	766.8	887.1	962.9	994.0	955.6	872.6	752.2	625.7
15°	749.1	767.8	842.5	1005.4	1147.6	1215.0	1225.4	1203.6	1107.1	974.3	804.1
17.5°	966.0	993.0	1109.2	1275.2	1377.9	1401.8	1398.7	1375.8	1305.3	1214.0	1053.1
20°	1225.4	1257.6	1371.7	1508.6	1519.0	1491.0	1475.4	1462.0	1438.1	1422.5	1297.0
22.5°	1486.9	1526.3	1645.6	1679.8	1586.5	1505.5	1467.1	1477.5	1512.8	1589.6	1538.7
25°	1747.3	1784.6	1896.7	1804.4	1617.6	1482.7	1433.9	1458.8	1542.9	1708.9	1774.3
27.5°	2051.3	2079.3	2145.7	1889.4	1622.8	1464.0	1416.3	1454.7	1557.4	1783.6	2032.6
30°	2367.8	2384.4	2352.2	1912.3	1605.1	1436.0	1398.7	1454.7	1582.3	1833.4	2226.7
32.5°	2600.2	2603.3	2498.5	1914.3	1595.8	1413.2	1382.1	1448.5	1606.2	1874.9	2414.5
35°	2839.9	2824.3	2638.6	1945.5	1620.7	1421.5	1394.5	1466.1	1643.5	1923.7	2579.4
37.5°	3082.7	3054.6	2795.2	1996.3	1685.0	1511.8	1495.2	1556.4	1703.7	1991.1	2761.0
40°	3331.7	3293.3	2958.1	2073.1	1828.2	1818.9	1876.0	1868.7	1868.7	2077.2	2947.8
42.5°	3635.7	3591.1	3198.9	2289.9	2162.3	2370.9	2526.5	2430.0	2251.6	2275.4	3190.6
45°	4037.2	3998.8	3616.0	2705.0	2686.3	3165.7	3375.3	3184.3	2740.3	2733.0	3596.3
47.5°	4679.5	4672.2	4281.1	3186.4	3327.5	4177.3	4582.0	4214.7	3297.4	3217.5	4364.1
50°	5582.2	5560.4	5110.1	3750.9	4090.2	5430.7	6152.9	5540.7	3970.8	3783.0	5392.3
52.5°	6599.0	6621.9	6271.2	4367.2	4900.5	6825.2	7830.6	7059.7	4702.3	4502.1	6686.2
55°	7556.7	7687.5	7595.1	5088.3	5692.2	8365.0	9673.4	8726.1	5608.1	5443.2	8136.7
57.5°	8305.9	8674.2	9321.6	6136.3	6622.9	10166.2	11730.9	10532.5	6665.4	6971.5	10111.2
60°	8347.4	8835.0	10338.5	8328.7	7820.3	11711.2	13785.3	12297.4	8327.6	9566.5	11658.3
62.5°	7721.7	8244.6	9676.5	9324.8	9124.5	13025.8	14839.5	13584.0	9962.9	11086.6	11199.7
65°	7005.8	7533.9	8937.7	8194.8	8973.0	12969.8	14571.8	13614.1	10111.2	10053.1	10378.9
67.5°	5923.6	6397.7	7668.8	7253.7	8270.6	12344.1	13335.0	12756.0	9315.4	9402.6	9547.8
70°	4323.6	4780.1	5959.9	5980.6	7222.6	11216.3	11458.0	11378.1	8578.7	8671.1	8256.0
72.5°	3123.1	3508.1	4525.9	4904.7	5765.8	9405.7	9238.6	9546.8	7360.6	7722.7	6631.2
75°	2245.3	2533.8	3320.3	4266.5	4570.6	6985.0	6613.6	7393.8	5905.9	6649.9	4985.6
77.5°	911.0	1012.7	1306.3	2874.1	3003.8	4699.2	4048.6	5370.5	4210.5	4369.3	2416.5
80°	37.4	41.5	54.0	1483.7	2059.6	2643.8	2166.5	2871.0	2780.7	1759.7	570.7
82.5°	4.2	4.2	9.3	427.5	901.7	1458.8	1021.0	1653.9	1408.0	746.0	259.4
85°	1.0	1.0	2.1	48.8	211.7	233.5	138.0	507.4	654.7	305.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.3	10.4	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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	470.0	464.8	458.6	452.4	449.3	441.0	437.9	435.8	433.7	434.7	434.7
5°	454.5	443.0	429.6	416.1	408.8	400.5	396.4	394.3	395.3	399.5	399.5
7.5°	452.4	430.6	401.5	383.9	375.6	369.4	365.2	363.2	364.2	369.4	371.5
10°	486.6	448.2	396.4	366.3	356.9	350.7	346.6	343.4	341.4	345.5	346.6
12.5°	560.3	507.4	421.3	364.2	347.6	339.3	336.2	330.0	326.8	328.9	330.0
15°	712.8	621.5	471.1	372.5	339.3	330.0	324.8	319.6	314.4	313.4	314.4
17.5°	912.0	781.3	546.8	392.2	333.1	321.7	314.4	307.1	299.9	298.8	297.8
20°	1159.0	977.4	652.6	423.3	327.9	314.4	304.0	293.6	284.3	281.2	281.2
22.5°	1384.1	1214.0	788.6	461.7	320.6	304.0	291.6	279.1	268.7	263.5	262.5
25°	1659.1	1465.1	951.5	506.3	310.2	290.5	277.0	264.6	254.2	248.0	245.9
27.5°	1936.1	1729.7	1136.2	564.4	297.8	277.0	264.6	253.2	241.8	234.5	232.4
30°	2204.9	2015.0	1343.7	637.1	288.4	263.5	253.2	241.8	231.4	220.0	216.9
32.5°	2493.3	2306.5	1576.1	718.0	281.2	254.2	242.8	232.4	218.9	208.6	203.4
35°	2771.4	2607.4	1832.4	796.9	273.9	245.9	233.5	223.1	208.6	197.1	189.9
37.5°	3051.5	2913.5	2100.1	844.6	263.5	234.5	223.1	214.8	198.2	184.7	176.4
40°	3348.3	3230.0	2389.6	824.9	254.2	222.0	215.8	206.5	187.8	172.2	161.9
42.5°	3674.1	3531.9	2684.2	749.1	245.9	211.7	205.4	196.1	178.5	159.8	146.3
45°	4083.9	3862.9	2926.0	635.0	250.1	201.3	188.8	186.8	170.2	146.3	129.7
47.5°	4788.4	4371.3	3113.8	561.3	278.1	189.9	175.4	180.5	162.9	132.8	114.1
50°	5866.5	5213.9	3289.1	556.1	320.6	184.7	162.9	176.4	155.6	119.3	100.6
52.5°	6893.7	6069.9	3401.2	601.8	358.0	198.2	150.4	171.2	150.4	110.0	91.3
55°	7876.3	6563.8	3200.9	635.0	393.2	238.6	141.1	162.9	144.2	104.8	88.2
57.5°	8935.7	6783.7	2520.3	702.4	418.1	272.9	143.2	150.4	135.9	101.7	87.2
60°	9252.1	6502.5	1521.1	790.6	404.7	283.3	158.8	133.8	124.5	95.5	84.0
62.5°	8760.3	5835.4	897.5	720.1	393.2	267.7	181.6	123.5	113.1	87.2	77.8
65°	8024.7	4929.6	585.2	608.0	417.1	238.6	193.0	118.3	102.7	78.9	68.5
67.5°	7184.2	3970.8	409.8	359.0	384.9	214.8	162.9	117.2	92.3	66.4	56.0
70°	6051.2	2973.7	288.4	237.6	320.6	190.9	126.6	114.1	80.9	54.0	43.6
72.5°	4675.3	1861.4	214.8	153.6	228.3	155.6	100.6	96.5	65.4	44.6	33.2
75°	3447.9	1061.4	151.5	111.0	150.4	118.3	74.7	68.5	56.0	42.5	30.1
77.5°	1800.2	531.2	94.4	85.1	86.1	73.7	54.0	49.8	51.9	42.5	28.0
80°	345.5	105.8	57.1	62.3	46.7	46.7	39.4	41.5	45.7	34.2	23.9
82.5°	144.2	22.8	31.1	35.3	29.1	32.2	32.2	33.2	32.2	24.9	17.6
85°	0.0	0.0	13.5	14.5	19.7	19.7	16.6	16.6	16.6	14.5	10.4
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	6.2	7.3	8.3	6.2	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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	433.7	431.6	434.7	436.8	438.9	438.9	436.8	434.7	431.6	434.7	431.6
5°	400.5	403.6	408.8	410.9	413.0	408.8	406.7	400.5	395.3	396.4	394.3
7.5°	374.6	377.7	383.9	388.1	388.1	386.0	379.8	373.5	365.2	365.2	364.2
10°	350.7	354.9	362.1	367.3	369.4	367.3	361.1	352.8	345.5	345.5	342.4
12.5°	331.0	336.2	344.5	351.7	353.8	351.7	345.5	337.2	328.9	328.9	326.8
15°	314.4	320.6	330.0	338.3	341.4	338.3	331.0	320.6	312.3	313.4	310.2
17.5°	298.8	304.0	316.5	325.8	328.9	325.8	316.5	303.0	294.7	296.7	294.7
20°	281.2	287.4	299.9	310.2	313.4	310.2	299.9	285.3	277.0	277.0	278.1
22.5°	262.5	268.7	281.2	288.4	292.6	289.5	279.1	265.6	257.3	257.3	258.4
25°	245.9	249.0	258.4	265.6	266.7	263.5	255.2	244.9	238.6	241.8	242.8
27.5°	230.3	230.3	234.5	238.6	237.6	234.5	231.4	223.1	222.0	225.2	228.3
30°	213.7	208.6	206.5	203.4	202.3	201.3	204.4	204.4	206.5	210.6	213.7
32.5°	199.2	188.8	179.5	170.2	165.0	169.1	177.4	184.7	192.0	198.2	201.3
35°	182.6	166.0	150.4	138.0	129.7	135.9	149.4	162.9	175.4	183.7	188.8
37.5°	166.0	142.1	123.5	107.9	101.7	106.9	121.4	140.1	158.8	169.1	176.4
40°	148.4	118.3	96.5	84.0	77.8	83.0	97.5	116.2	141.1	154.6	163.9
42.5°	130.7	97.5	77.8	65.4	62.3	65.4	76.8	95.5	122.4	139.0	151.5
45°	113.1	80.9	62.3	52.9	49.8	52.9	62.3	77.8	104.8	123.5	138.0
47.5°	97.5	68.5	51.9	43.6	41.5	44.6	51.9	65.4	88.2	106.9	123.5
50°	85.1	60.2	44.6	37.4	35.3	38.4	44.6	55.0	74.7	91.3	108.9
52.5°	76.8	56.0	39.4	32.2	31.1	33.2	38.4	46.7	63.3	77.8	94.4
55°	74.7	56.0	36.3	29.1	28.0	30.1	34.2	40.5	55.0	67.4	82.0
57.5°	76.8	60.2	34.2	24.9	23.9	25.9	30.1	35.3	47.7	58.1	71.6
60°	76.8	61.2	30.1	19.7	18.7	20.8	24.9	31.1	42.5	50.8	62.3
62.5°	69.5	56.0	24.9	15.6	13.5	15.6	20.8	25.9	37.4	45.7	55.0
65°	60.2	47.7	20.8	11.4	9.3	11.4	16.6	21.8	32.2	39.4	49.8
67.5°	48.8	36.3	15.6	8.3	6.2	8.3	12.5	17.6	27.0	34.2	44.6
70°	36.3	25.9	12.5	7.3	6.2	7.3	11.4	16.6	23.9	31.1	41.5
72.5°	27.0	17.6	10.4	7.3	5.2	7.3	10.4	15.6	22.8	30.1	39.4
75°	22.8	14.5	9.3	6.2	5.2	6.2	9.3	14.5	20.8	28.0	37.4
77.5°	21.8	13.5	8.3	5.2	4.2	5.2	8.3	12.5	18.7	25.9	36.3
80°	18.7	11.4	7.3	4.2	3.1	4.2	7.3	10.4	14.5	19.7	28.0
82.5°	14.5	9.3	5.2	2.1	1.0	2.1	5.2	6.2	9.3	11.4	16.6
85°	9.3	5.2	2.1	0.0	0.0	0.0	2.1	4.2	4.2	5.2	8.3
87.5°	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1
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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	437.9	438.9	441.0	444.1	451.3	457.6	463.8	472.1	476.3	476.3
5°	396.4	397.4	398.4	402.6	413.0	421.3	434.7	451.3	459.6	461.7
7.5°	364.2	366.3	368.3	371.5	381.8	393.2	410.9	442.0	457.6	460.7
10°	345.5	348.6	352.8	359.0	368.3	380.8	410.9	466.9	492.9	498.0
12.5°	331.0	336.2	340.3	347.6	359.0	378.7	438.9	537.5	583.1	595.6
15°	316.5	322.7	328.9	336.2	348.6	386.0	492.9	664.1	739.8	749.1
17.5°	301.9	309.2	317.5	325.8	341.4	403.6	577.9	839.4	945.2	966.0
20°	285.3	294.7	306.1	316.5	334.1	431.6	696.2	1048.0	1180.8	1225.4
22.5°	267.7	279.1	292.6	306.1	325.8	465.9	839.4	1272.1	1457.8	1486.9
25°	253.2	264.6	277.0	290.5	312.3	507.4	1012.7	1550.1	1719.3	1747.3
27.5°	239.7	251.1	262.5	275.0	298.8	561.3	1221.2	1845.9	2022.2	2051.3
30°	225.2	238.6	250.1	262.5	286.4	627.7	1462.0	2173.7	2340.8	2367.8
32.5°	212.7	226.2	237.6	250.1	277.0	700.4	1715.1	2464.3	2600.2	2600.2
35°	202.3	216.9	225.2	241.8	269.8	747.1	1954.8	2741.3	2844.0	2839.9
37.5°	190.9	208.6	214.8	226.2	260.4	752.2	2180.0	3033.9	3109.6	3082.7
40°	179.5	198.2	207.5	213.7	250.1	709.7	2426.9	3302.6	3367.0	3331.7
42.5°	169.1	183.7	197.1	204.4	243.8	635.0	2625.1	3590.0	3666.8	3635.7
45°	158.8	171.2	179.5	193.0	248.0	583.1	2795.2	3925.2	4060.1	4037.2
47.5°	148.4	158.8	163.9	184.7	276.0	559.3	2899.0	4444.0	4698.2	4679.5
50°	137.0	149.4	149.4	182.6	317.5	567.6	2989.3	5195.2	5588.4	5582.2
52.5°	125.5	139.0	137.0	198.2	349.7	605.9	3092.0	5858.2	6542.0	6599.0
55°	114.1	126.6	128.7	229.3	368.3	639.2	2694.6	6137.3	7356.5	7556.7
57.5°	101.7	108.9	133.8	253.2	362.1	735.6	1845.9	6188.1	7876.3	8305.9
60°	88.2	94.4	151.5	248.0	342.4	679.6	1162.1	5731.6	7802.6	8347.4
62.5°	76.8	87.2	159.8	218.9	348.6	589.3	740.8	4884.9	7100.2	7721.7
65°	67.4	84.0	145.3	198.2	352.8	399.5	500.1	3973.9	6414.3	7005.8
67.5°	60.2	93.4	119.3	176.4	303.0	281.2	343.4	3087.8	5393.4	5923.6
70°	55.0	95.5	97.5	151.5	234.5	180.5	226.2	2078.3	3717.7	4323.6
72.5°	49.8	70.6	73.7	121.4	151.5	110.0	146.3	1189.1	2710.2	3123.1
75°	47.7	47.7	50.8	78.9	84.0	79.9	94.4	709.7	1943.4	2245.3
77.5°	44.6	36.3	32.2	50.8	45.7	57.1	56.0	315.4	842.5	911.0
80°	35.3	25.9	21.8	32.2	31.1	38.4	33.2	25.9	38.4	37.4
82.5°	21.8	16.6	15.6	19.7	17.6	19.7	15.6	4.2	4.2	4.2
85°	10.4	9.3	8.3	8.3	9.3	8.3	6.2	2.1	1.0	1.0
87.5°	5.2	5.2	4.2	3.1	4.2	4.2	3.1	1.0	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

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