

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: P628805

Luminaire Tested: GWS-SA1A-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628805
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-SA1A-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1496.3 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

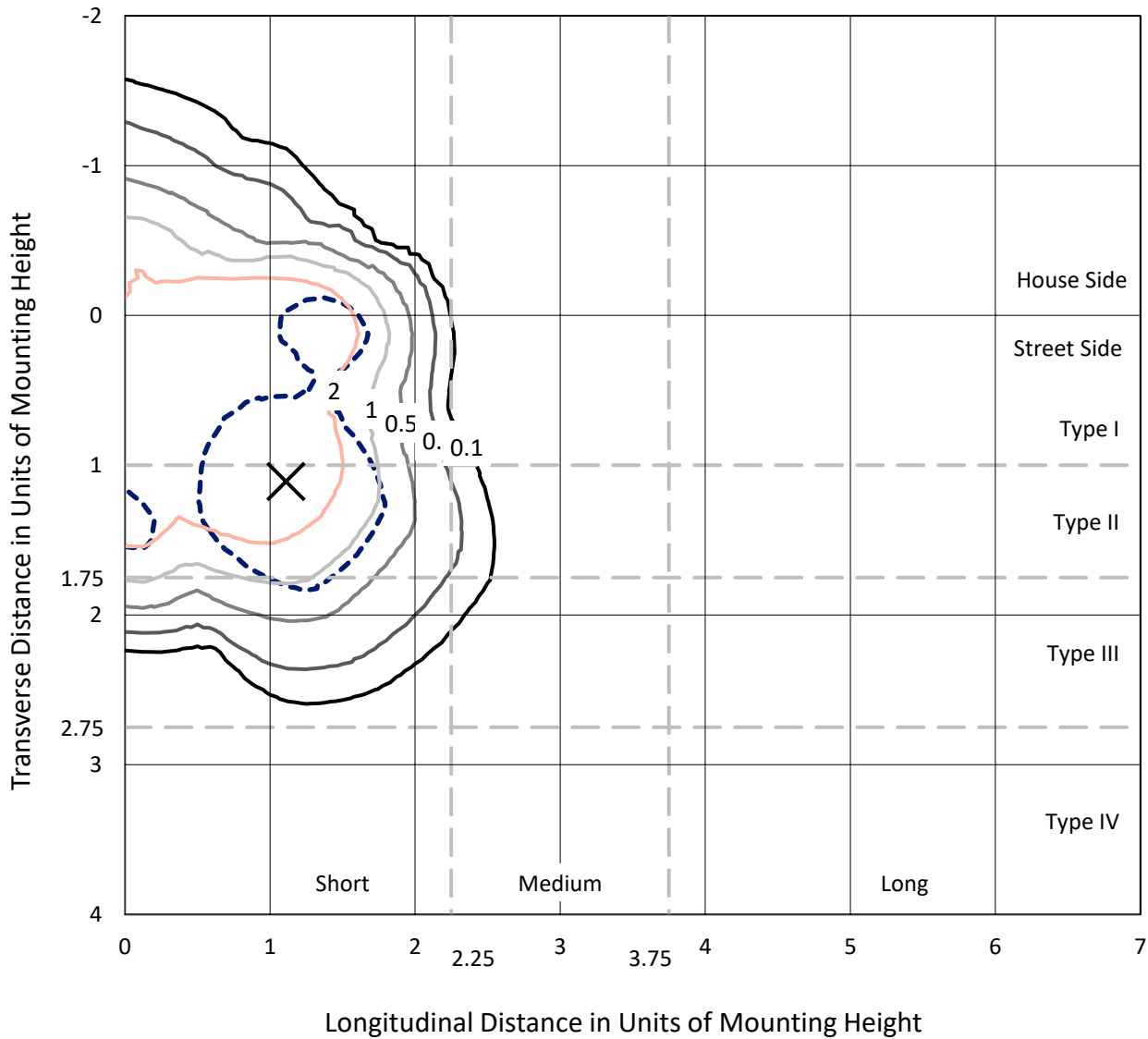
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

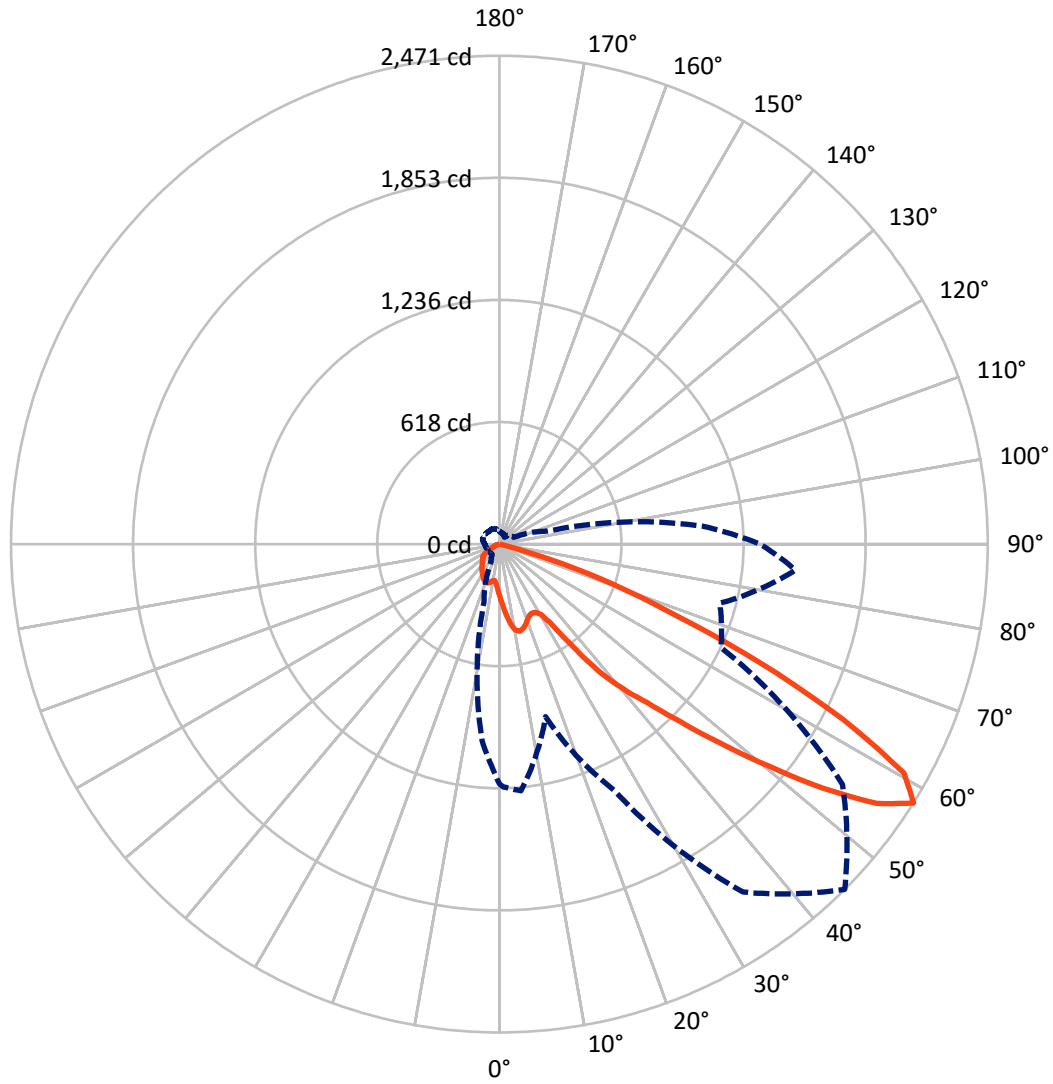
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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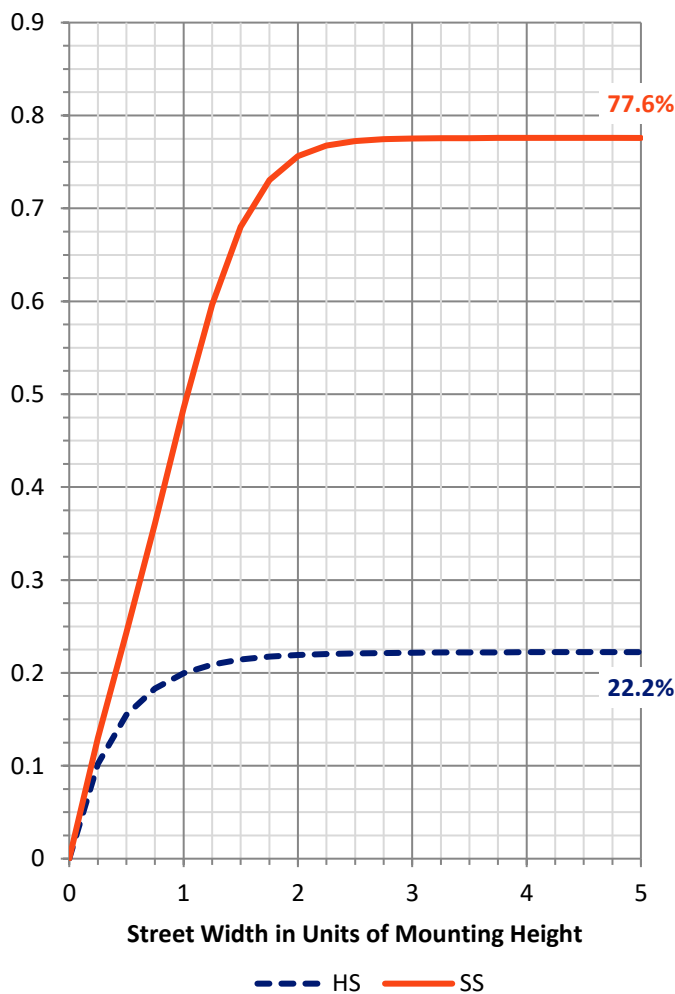
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.1	0.0	335.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	1161.2	0.0	1161.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	1496.3	0.0	1496.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	1.7
10°-20°	83.7	5.6
20°-30°	136.0	9.1
30°-40°	210.1	14.0
40°-50°	336.9	22.5
50°-60°	460.4	30.8
60°-70°	223.0	14.9
70°-80°	20.4	1.4
80°-90°	0.1	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°	1496.3	100.0
0°-180°	1496.3	100.0

Coefficient of Utilization



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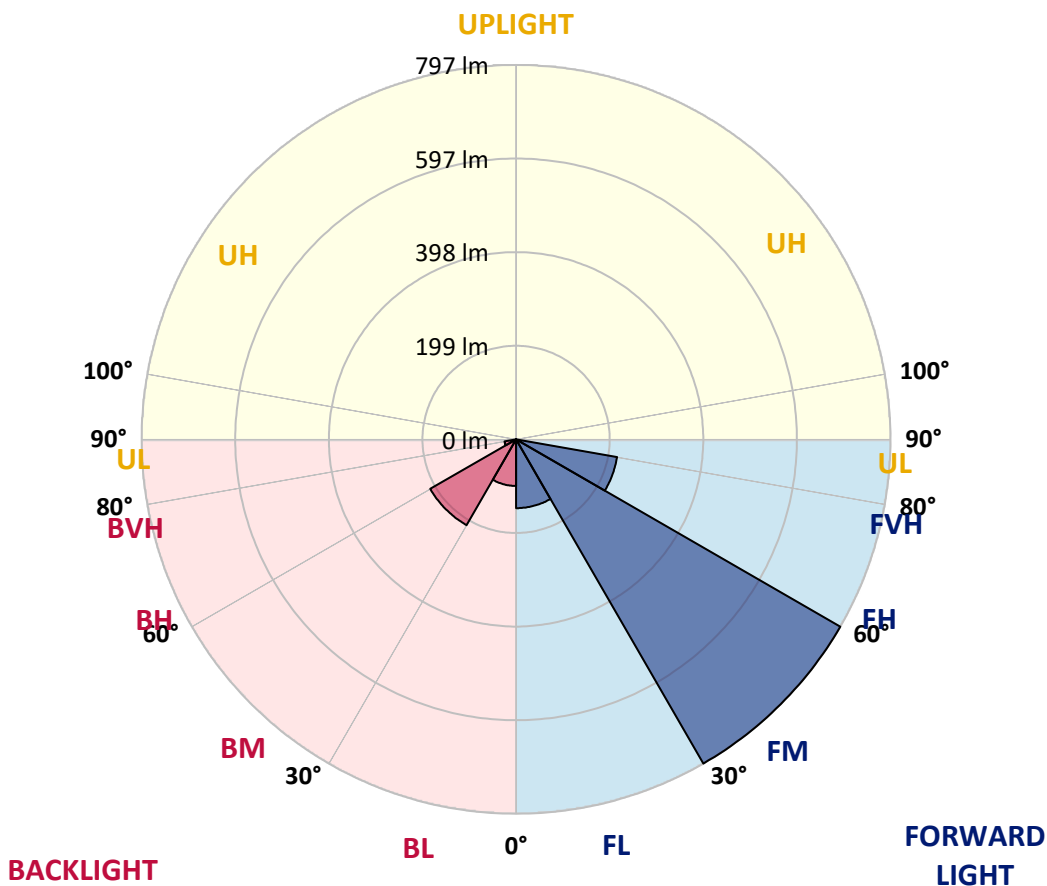
CATALOG NUMBER: GWS-SA1A-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.4	9.8			
FM (30°-60°)	796.5	53.2			
FH (60°-80°)	218.3	14.6			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	99.1	6.6	B0/110		
BM (30°-60°)	210.8	14.1	B0/220		
BH (60°-80°)	25.1	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: B0-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
2.5°	284.9	286.7	289.7	296.2	301.6	305.2	306.8	306.4	304.2	302.6	299.4
5°	315.5	315.5	321.3	336.0	347.2	354.3	357.9	355.7	351.3	344.2	333.4
7.5°	342.2	343.2	353.1	374.0	391.1	401.1	407.0	405.7	397.9	384.4	362.7
10°	363.1	364.3	377.4	402.9	423.0	433.3	441.9	442.7	434.1	416.2	391.3
12.5°	383.4	384.6	398.3	422.8	440.5	444.8	452.4	455.4	453.2	440.5	414.6
15°	405.3	408.2	419.8	438.1	445.6	440.5	445.6	451.0	458.4	457.2	433.9
17.5°	426.9	428.9	440.7	447.2	438.9	425.9	428.3	434.7	451.6	468.1	453.0
20°	446.8	449.6	459.4	451.0	426.1	405.7	405.9	414.4	440.1	474.7	472.5
22.5°	467.7	471.9	478.9	455.2	414.2	389.9	390.9	398.5	431.1	480.9	494.6
25°	495.0	499.0	503.7	465.7	410.4	382.0	385.8	392.9	431.1	491.6	522.0
27.5°	532.0	534.8	535.0	485.2	417.0	383.2	391.3	399.3	443.9	512.9	558.6
30°	578.5	582.9	577.1	515.5	437.7	399.3	411.2	421.2	471.7	548.9	612.4
32.5°	635.0	641.2	633.3	560.6	480.9	454.8	476.3	482.1	515.9	601.0	673.6
35°	701.3	706.5	698.1	622.9	581.9	586.7	625.7	618.3	604.8	665.1	744.9
37.5°	774.1	778.9	762.6	717.4	731.1	752.0	814.3	788.8	745.3	747.8	822.3
40°	840.8	846.1	820.5	820.1	848.3	886.5	961.7	926.5	867.4	855.9	894.9
42.5°	910.0	913.6	890.5	874.8	938.8	1017.4	1097.0	1049.6	948.2	935.7	985.8
45°	1008.7	1016.4	975.2	901.8	1020.2	1168.0	1279.0	1186.3	1003.3	993.3	1124.9
47.5°	1153.9	1159.5	1075.5	918.7	1096.0	1355.6	1506.4	1363.6	1051.8	1028.8	1315.2
50°	1273.9	1277.8	1167.8	937.2	1176.6	1557.8	1765.5	1573.9	1106.3	1087.8	1492.7
52.5°	1362.4	1376.9	1289.0	975.2	1282.6	1795.7	2052.5	1823.0	1191.3	1201.6	1639.9
55°	1380.7	1400.4	1371.9	998.5	1375.9	2038.0	2317.5	2046.0	1276.1	1287.8	1689.3
57.5°	1213.4	1229.1	1252.8	904.4	1373.7	2149.0	2471.3	2120.0	1237.5	1154.9	1504.2
60°	909.0	919.9	962.9	691.3	1263.3	2050.8	2351.4	1994.1	1082.1	881.3	1146.1
62.5°	539.1	543.9	598.4	447.8	1048.5	1766.1	1950.1	1720.7	855.1	592.7	701.9
65°	206.9	204.9	246.5	221.0	771.1	1406.8	1450.5	1311.7	586.7	271.6	267.6
67.5°	32.0	30.6	41.2	65.3	556.1	975.0	957.1	945.4	367.5	63.3	55.3
70°	7.2	7.2	8.8	19.3	339.8	572.8	613.0	584.5	235.2	13.5	7.2
72.5°	3.4	3.4	4.2	8.2	123.1	236.0	275.1	270.8	76.4	4.4	2.6
75°	1.2	1.4	1.4	1.8	7.4	12.3	28.1	20.1	4.8	0.0	0.0
77.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.2	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°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
2.5°	292.3	290.9	285.7	278.7	271.8	265.8	259.6	252.1	246.7	240.5	238.5
5°	324.9	316.1	301.8	286.9	273.2	261.6	250.3	238.3	229.4	220.6	217.6
7.5°	352.5	339.4	316.3	294.0	275.3	258.8	242.5	226.0	213.1	202.7	199.5
10°	377.2	362.1	331.2	303.6	280.1	261.0	241.3	220.6	203.9	191.4	188.4
12.5°	398.5	381.0	343.8	310.8	282.1	260.2	241.1	224.6	209.5	195.2	191.4
15°	416.4	397.1	354.5	315.7	279.1	250.1	233.4	230.8	229.6	213.9	206.5
17.5°	433.9	412.2	363.1	317.9	270.6	232.4	220.4	232.2	244.9	234.6	225.2
20°	452.2	427.5	372.0	318.3	256.6	212.5	210.5	229.2	245.3	242.1	233.2
22.5°	473.7	446.6	383.0	318.1	238.9	195.6	203.3	223.4	236.5	236.2	229.2
25°	504.9	470.7	397.9	319.3	219.6	182.6	195.2	213.5	224.2	223.8	218.0
27.5°	538.2	499.4	417.2	322.3	203.1	174.9	185.8	200.1	209.3	208.9	203.9
30°	585.1	532.6	435.7	322.5	191.2	170.9	175.3	185.2	194.0	193.0	189.2
32.5°	642.0	570.0	451.2	311.0	183.8	167.1	164.5	169.5	176.3	174.9	173.9
35°	710.8	614.4	464.5	285.9	172.3	159.4	152.4	153.4	158.2	159.0	158.6
37.5°	789.2	667.3	480.9	252.7	156.8	148.4	138.9	138.1	140.9	143.6	145.6
40°	866.6	726.8	503.3	219.2	142.8	134.3	125.3	123.3	124.5	129.1	133.3
42.5°	953.6	795.8	527.4	190.4	133.1	118.8	110.2	106.4	109.8	117.2	122.2
45°	1079.1	892.5	550.9	167.5	129.1	105.2	93.5	93.1	96.9	106.6	112.2
47.5°	1255.2	1017.6	566.4	149.6	128.9	94.5	80.6	83.0	87.5	96.9	103.3
50°	1426.9	1174.2	549.3	135.9	124.7	87.5	71.0	75.8	80.2	88.5	95.1
52.5°	1530.5	1258.5	482.8	123.1	111.6	84.2	61.5	70.0	70.8	78.2	85.3
55°	1519.6	1204.0	369.8	103.1	92.3	79.6	51.7	63.1	63.5	69.2	75.2
57.5°	1319.0	1033.7	253.9	83.6	69.4	65.7	42.6	53.3	57.1	60.5	64.9
60°	983.0	754.2	113.2	68.0	44.0	44.4	36.4	40.2	46.0	50.1	53.9
62.5°	579.3	433.9	46.0	40.8	24.3	27.9	29.4	29.4	33.0	36.0	38.4
65°	219.0	151.8	18.7	20.5	12.7	13.1	17.3	21.3	24.1	26.7	30.0
67.5°	38.4	26.5	9.7	7.6	7.4	6.6	8.8	13.9	15.5	17.5	18.9
70°	6.4	5.4	4.0	3.8	3.4	3.6	5.8	9.9	10.9	11.5	12.1
72.5°	1.8	1.6	1.2	1.0	0.8	1.0	3.6	7.6	8.0	8.4	9.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.4	5.8	6.0	6.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.6	2.0	1.6
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°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
2.5°	237.3	233.2	231.0	229.8	229.8	228.2	226.4	225.8	228.4	228.4	232.8
5°	213.7	210.5	206.9	204.7	201.3	201.9	199.9	199.7	202.3	203.5	208.1
7.5°	197.4	193.4	191.2	189.8	188.0	187.2	185.4	184.8	186.2	188.2	192.6
10°	186.6	186.0	185.8	186.8	186.8	185.8	184.2	183.2	183.6	187.4	192.4
12.5°	189.4	190.6	191.0	192.6	193.4	192.6	191.4	191.8	194.4	201.5	208.9
15°	201.7	200.7	200.3	201.1	201.7	200.9	200.5	203.5	212.5	222.6	231.0
17.5°	214.7	208.3	205.5	205.5	205.9	205.5	205.9	211.7	226.4	236.5	242.7
20°	221.4	209.5	205.1	204.1	204.9	205.1	206.5	213.1	229.2	236.2	237.7
22.5°	219.4	204.5	199.5	198.7	199.5	200.3	201.7	207.3	222.4	226.0	225.4
25°	209.3	194.6	190.6	190.6	192.4	192.2	192.8	196.8	209.3	211.5	210.5
27.5°	196.6	182.8	179.3	181.4	183.0	182.6	182.8	186.2	195.4	196.0	195.0
30°	183.8	171.7	168.5	170.9	173.1	172.7	172.9	176.3	182.2	181.6	180.2
32.5°	170.7	161.9	159.4	160.9	164.3	163.9	164.7	168.3	170.5	167.9	166.3
35°	158.6	154.0	152.2	153.0	155.6	156.2	157.6	160.0	160.0	156.8	154.0
37.5°	147.4	146.8	145.6	144.6	147.0	148.8	150.8	153.6	149.6	145.0	142.4
40°	136.9	139.5	137.9	135.3	136.7	139.3	143.4	145.6	140.7	136.1	131.7
42.5°	127.3	131.7	131.1	127.9	129.1	131.5	136.1	137.9	132.3	127.1	122.8
45°	118.0	124.3	124.7	120.6	121.8	124.3	129.7	130.3	123.1	117.4	114.4
47.5°	110.0	116.8	117.0	114.0	114.4	117.8	122.8	123.1	114.8	109.6	105.8
50°	102.3	110.2	110.8	108.2	108.6	112.6	116.8	116.0	107.2	101.7	98.3
52.5°	93.1	103.7	105.2	103.9	105.6	108.8	111.4	108.6	98.3	92.9	89.9
55°	83.0	96.9	99.9	99.1	100.9	103.5	104.2	102.3	89.5	84.0	81.2
57.5°	71.4	79.8	85.0	83.4	84.8	87.5	89.3	87.9	78.2	74.0	71.6
60°	59.1	64.7	65.9	63.3	62.1	66.8	71.0	69.2	60.9	58.3	55.5
62.5°	43.2	49.7	50.5	47.0	45.6	50.7	54.3	52.5	43.4	40.6	38.4
65°	34.6	40.6	42.2	39.0	38.2	42.0	44.2	39.8	33.4	30.4	27.9
67.5°	22.7	27.5	31.8	31.6	30.0	31.2	29.6	25.9	21.3	19.7	18.1
70°	14.1	16.9	19.5	20.5	20.3	19.9	17.7	15.1	13.7	13.1	12.3
72.5°	10.9	13.7	15.7	16.3	16.5	15.9	14.1	11.7	10.3	9.4	8.8
75°	8.0	10.3	11.9	12.7	13.1	12.7	10.9	9.2	7.8	7.2	6.6
77.5°	2.8	3.4	4.2	4.6	4.4	4.2	3.8	3.8	3.0	2.8	2.4
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°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
2.5°	237.9	241.5	248.1	254.1	260.6	267.2	274.5	281.9	285.3	284.9
5°	215.1	223.0	233.8	245.7	259.0	273.2	289.1	305.4	312.5	315.5
7.5°	200.9	211.9	226.2	241.3	258.8	279.1	303.0	328.5	338.8	342.2
10°	202.7	215.5	227.4	242.1	260.8	287.1	316.9	347.2	359.3	363.1
12.5°	217.3	220.2	223.4	235.4	259.0	293.2	329.5	365.7	379.6	383.4
15°	230.6	217.6	211.5	222.6	252.5	297.4	342.4	385.6	400.9	405.3
17.5°	231.2	211.5	198.0	206.7	242.1	299.2	355.1	405.9	422.6	426.9
20°	223.8	204.9	187.6	187.8	227.8	298.8	365.5	424.2	442.9	446.8
22.5°	212.9	197.0	179.1	172.9	212.5	298.0	377.0	443.7	464.1	467.7
25°	200.9	187.0	171.1	161.7	197.2	298.8	393.1	469.3	491.6	495.0
27.5°	187.8	175.9	164.9	157.2	184.4	301.8	412.4	501.9	528.4	532.0
30°	174.1	165.3	160.9	156.2	176.3	302.6	433.3	539.9	573.4	578.5
32.5°	160.6	155.8	156.0	156.8	168.7	297.0	452.4	582.1	626.9	635.0
35°	148.2	146.8	150.8	154.8	157.6	282.5	469.1	631.9	693.1	701.3
37.5°	137.5	138.7	143.8	147.8	145.6	262.0	491.2	694.3	767.1	774.1
40°	127.3	130.3	136.1	137.9	136.3	238.1	517.7	754.4	831.2	840.8
42.5°	117.8	120.0	128.3	128.7	133.7	213.7	543.3	819.1	905.0	910.0
45°	110.2	109.8	118.2	120.8	137.1	186.8	568.2	905.4	1001.5	1008.7
47.5°	102.7	102.3	104.4	116.2	138.5	161.9	592.9	1031.7	1141.4	1153.9
50°	95.7	96.3	90.1	114.0	130.9	142.8	604.2	1148.5	1268.7	1273.9
52.5°	89.5	87.3	76.4	106.8	114.6	124.7	572.2	1201.6	1347.5	1362.4
55°	80.6	68.4	62.9	86.7	90.5	108.8	468.7	1170.8	1354.4	1380.7
57.5°	69.0	53.7	53.5	63.9	63.9	100.9	300.2	1000.3	1167.2	1213.4
60°	53.1	41.6	44.2	44.4	41.0	73.6	168.5	724.6	863.0	909.0
62.5°	37.8	31.8	33.4	26.5	23.5	36.8	80.8	417.2	532.6	539.1
65°	25.3	21.5	17.5	14.7	14.5	15.7	33.4	150.8	183.4	206.9
67.5°	16.7	13.1	9.2	9.2	10.5	10.5	12.7	24.9	35.0	32.0
70°	10.9	9.0	5.8	5.6	6.8	6.8	6.4	6.8	7.2	7.2
72.5°	8.0	6.8	3.4	3.0	3.8	4.0	3.6	3.4	3.4	3.4
75°	6.0	4.8	2.0	1.4	1.8	2.4	2.0	1.4	1.4	1.2
77.5°	2.4	1.8	0.8	0.6	1.0	1.4	1.2	0.6	0.4	0.4
80°	0.2	0.4	0.4	0.4	0.6	0.8	1.0	0.4	0.2	0.2
82.5°	0.0	0.2	0.2	0.2	0.4	0.6	0.8	0.4	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.4	0.6	0.4	0.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.6	0.4	0.2	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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