

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: P628858

Luminaire Tested: GWS-SA1A-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1721.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

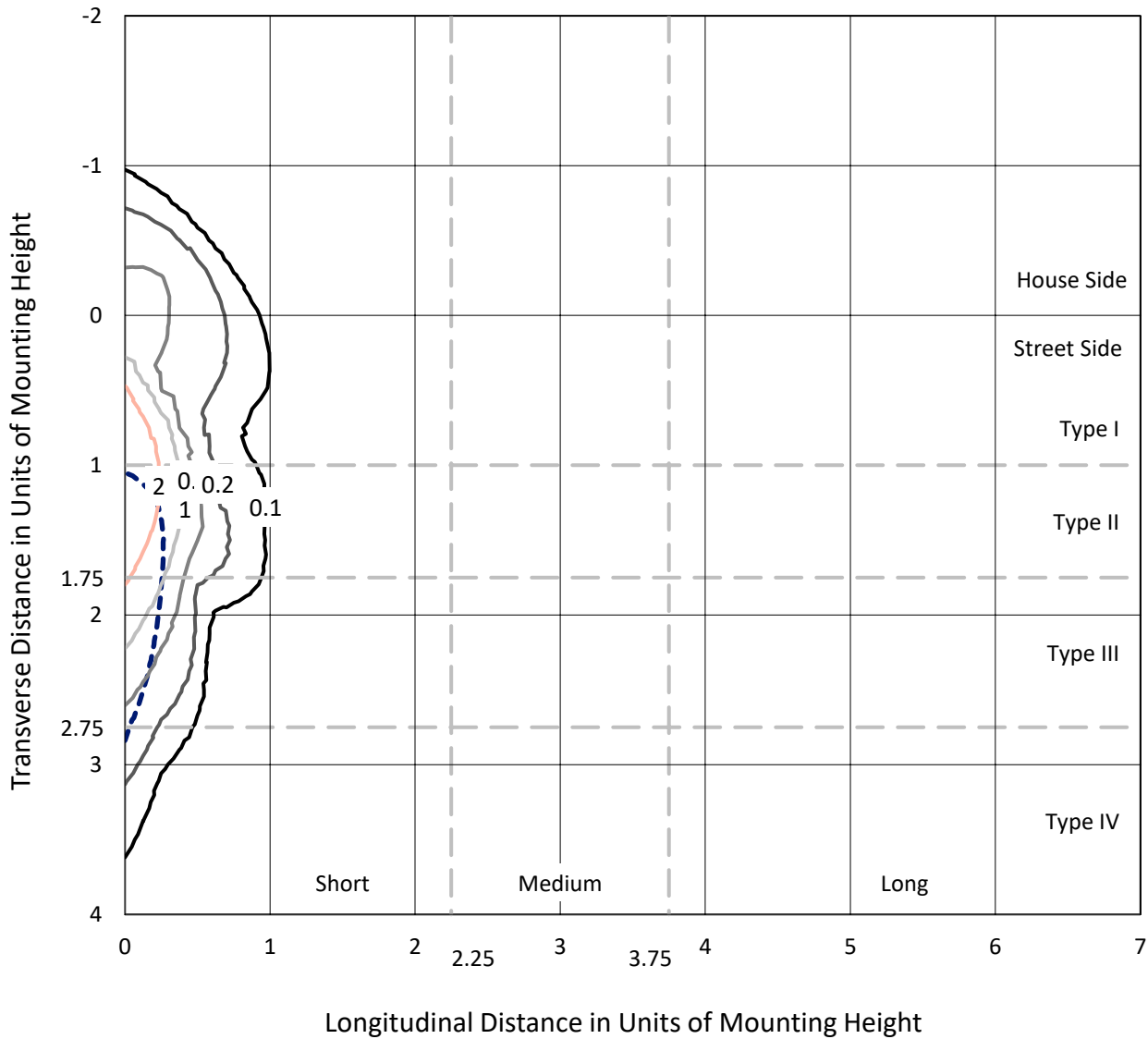
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

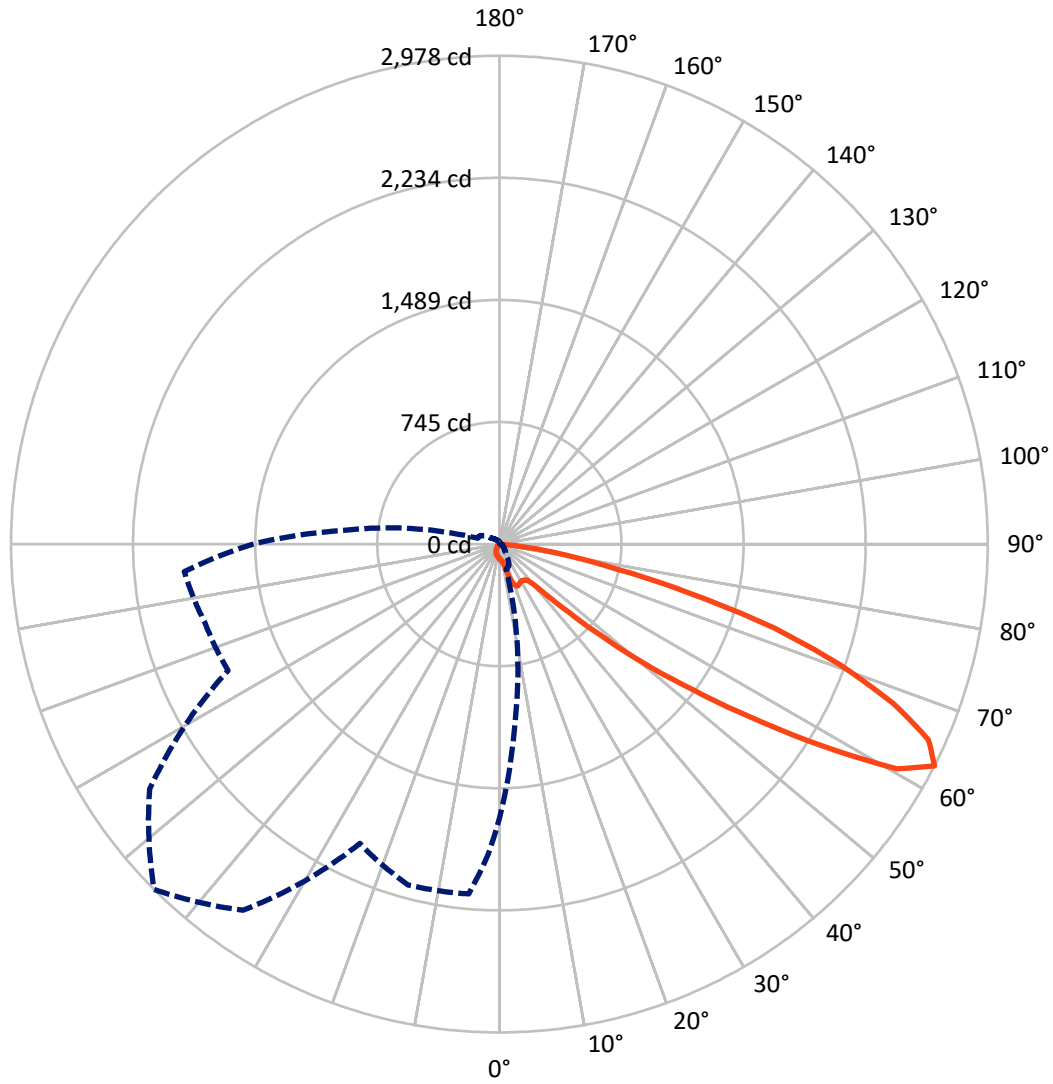
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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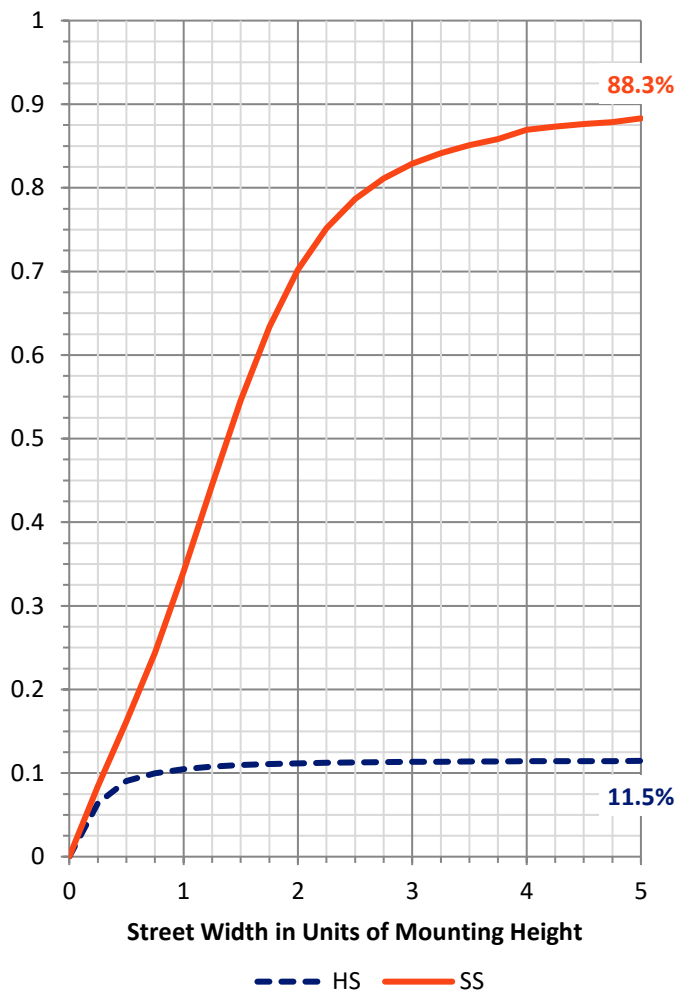
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.1	0.0	200.1
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	1521.7	0.0	1521.7
	% Fixture	88.4	0.0	88.4
Total	Lumens	1721.8	0.0	1721.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.4
10°-20°	26.4	1.5
20°-30°	59.7	3.5
30°-40°	102.9	6.0
40°-50°	194.0	11.3
50°-60°	433.2	25.2
60°-70°	579.4	33.7
70°-80°	290.6	16.9
80°-90°	27.8	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°	1721.8	100.0
0°-180°	1721.8	100.0

Coefficient of Utilization



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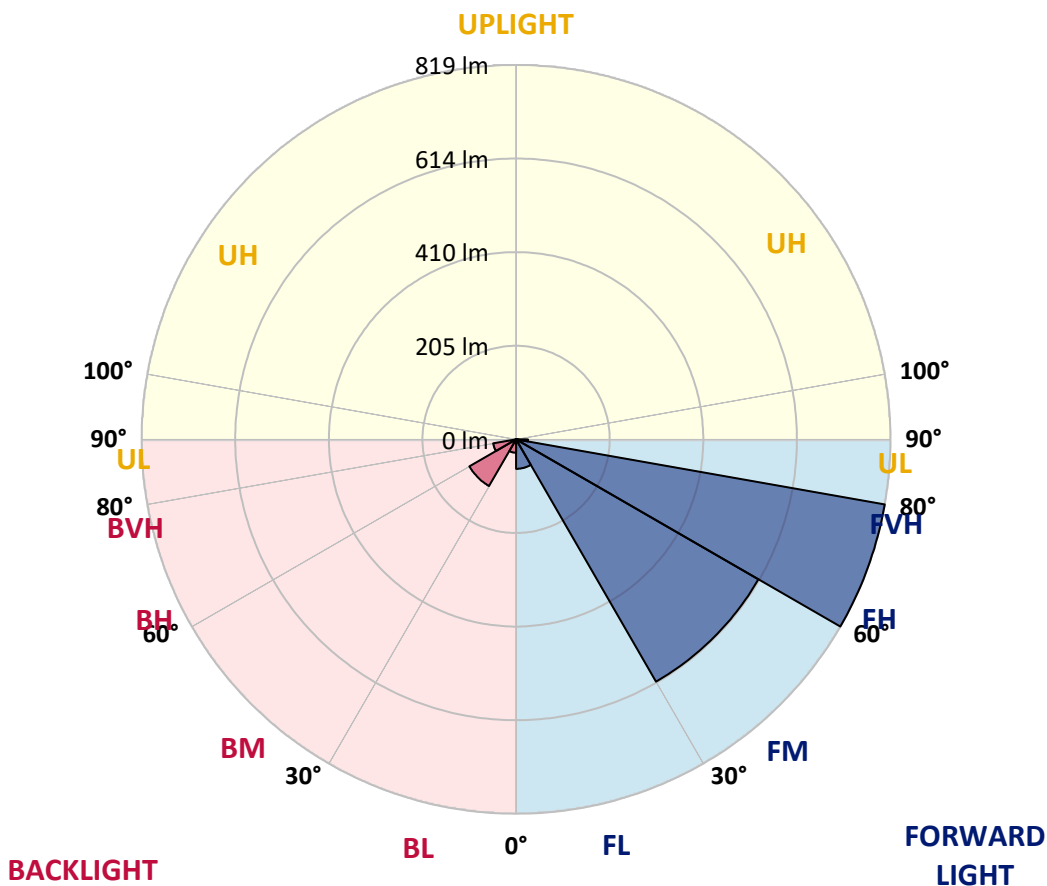
CATALOG NUMBER: GWS-SA1A-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.5	3.7			
FM (30°-60°)	612.1	35.6			
FH (60°-80°)	819.1	47.6			G1/1800
FVH (80°-90°)	26.0	1.5			G1/100
BL (0°-30°)	29.4	1.7	B0/110		
BM (30°-60°)	118.0	6.9	B0/220		
BH (60°-80°)	50.9	3.0	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2.5°	88.3	88.1	87.7	86.4	85.4	84.8	83.6	83.6	83.4	83.0	82.2
5°	85.4	84.6	83.8	81.5	79.1	77.7	76.0	75.8	75.8	75.4	75.2
7.5°	80.9	80.1	79.1	75.4	73.2	71.8	70.3	70.1	69.5	69.5	69.5
10°	78.5	77.3	75.6	71.6	69.3	68.1	67.1	66.5	66.1	65.4	65.2
12.5°	83.8	81.5	78.1	70.7	67.7	66.1	64.8	64.4	63.2	62.4	61.8
15°	100.3	94.8	87.9	72.6	67.1	64.6	63.0	62.2	61.2	59.7	58.7
17.5°	127.4	119.5	107.8	78.5	66.5	63.4	61.4	59.9	58.5	56.9	55.7
20°	164.9	153.1	139.2	89.3	66.5	62.0	59.5	57.7	55.7	53.8	52.4
22.5°	212.6	200.8	177.2	107.6	67.3	60.1	57.3	54.8	52.4	50.8	49.1
25°	266.1	249.3	227.3	129.9	69.5	57.7	54.6	52.2	49.9	47.9	46.1
27.5°	325.6	307.4	278.1	161.5	74.4	55.2	51.8	49.5	47.5	45.5	43.0
30°	380.4	369.6	339.6	199.4	82.4	53.6	49.5	47.5	45.5	42.8	40.6
32.5°	446.3	427.1	402.4	242.6	93.0	52.0	47.7	44.9	43.2	40.8	38.3
35°	512.5	496.2	463.8	295.8	104.8	50.4	45.5	42.8	41.4	38.5	35.9
37.5°	580.8	577.2	545.1	354.7	116.4	48.5	42.8	41.2	39.8	36.5	33.4
40°	648.1	641.4	611.8	422.0	123.5	46.5	40.6	39.6	37.9	34.3	30.8
42.5°	712.5	707.4	678.7	486.4	122.5	44.6	38.3	37.1	35.9	32.2	27.9
45°	791.6	783.3	747.0	534.1	112.1	46.7	36.1	34.0	33.8	30.4	25.1
47.5°	939.6	912.1	850.5	570.8	101.7	52.0	33.6	31.2	32.6	28.5	22.2
50°	1147.0	1114.6	1025.5	599.4	101.5	58.9	33.2	28.5	31.6	27.1	19.8
52.5°	1355.3	1298.2	1190.0	614.7	109.1	64.0	36.9	25.9	30.4	25.7	17.9
55°	1554.9	1436.5	1258.9	564.1	115.0	69.5	43.6	24.5	28.1	24.1	16.9
57.5°	1745.1	1547.6	1288.9	446.3	134.8	71.8	47.7	25.1	24.9	22.0	16.1
60°	1771.2	1542.3	1228.3	259.5	148.6	67.9	46.1	27.9	21.8	19.6	14.7
62.5°	1672.5	1439.7	1090.3	161.9	138.0	66.5	41.0	31.8	19.8	17.3	12.8
65°	1522.7	1278.9	909.1	104.4	104.6	73.8	35.9	31.2	18.6	15.3	11.0
67.5°	1288.5	1070.3	716.2	69.9	59.1	63.0	31.4	21.4	18.1	13.0	8.6
70°	940.5	761.9	466.3	46.7	35.3	50.4	26.3	15.3	17.1	10.8	6.1
72.5°	687.4	511.9	260.3	30.6	20.0	29.4	19.4	11.0	13.3	8.0	4.3
75°	494.8	352.3	148.6	19.6	13.3	16.1	12.6	7.5	8.6	6.3	3.9
77.5°	238.1	171.7	67.5	10.8	9.0	8.2	6.7	4.7	5.3	5.7	3.5
80°	9.0	6.7	5.1	5.3	5.7	3.7	3.1	2.4	3.1	3.9	1.8
82.5°	0.0	0.0	0.0	0.6	0.8	1.0	1.2	1.0	1.2	1.4	0.2
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°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2.5°	82.8	82.4	82.8	83.2	83.6	84.0	83.4	83.8	84.2	83.2	83.6
5°	76.2	76.0	77.3	77.9	78.7	79.1	78.7	78.7	78.5	77.3	77.3
7.5°	70.5	70.7	71.8	73.2	74.2	74.8	74.4	74.2	73.6	71.8	71.8
10°	66.3	66.3	67.9	69.1	70.5	71.2	70.7	70.1	69.5	67.7	67.5
12.5°	62.8	62.8	64.0	66.1	67.7	68.5	68.3	67.5	66.5	64.6	64.4
15°	59.5	59.3	61.2	63.0	65.2	66.3	65.8	65.2	63.4	61.8	61.4
17.5°	56.3	56.1	57.7	60.1	62.6	64.0	63.8	62.4	60.8	58.7	58.3
20°	53.0	52.6	54.6	57.1	59.5	61.0	60.5	59.3	57.3	55.2	54.8
22.5°	49.7	49.5	51.0	53.0	55.2	56.5	56.3	55.2	53.2	51.4	51.4
25°	46.1	46.1	47.1	48.5	50.2	50.8	51.0	50.6	49.3	48.3	48.3
27.5°	43.0	42.4	42.8	43.2	44.0	45.1	45.1	45.5	45.7	45.3	45.5
30°	40.6	39.6	38.9	38.1	37.7	38.1	38.5	40.0	41.4	42.2	42.6
32.5°	37.7	36.5	34.9	32.6	31.2	30.8	32.0	34.7	37.3	39.1	40.2
35°	34.9	33.2	30.2	26.9	25.1	24.5	25.9	28.9	32.8	36.1	37.5
37.5°	32.0	29.8	25.5	21.6	19.6	19.2	20.6	23.9	28.3	32.8	34.7
40°	28.7	26.1	21.0	16.9	15.3	14.9	16.1	19.4	24.1	29.2	32.0
42.5°	25.5	22.2	16.9	13.5	11.8	11.8	13.5	15.9	20.2	25.7	29.2
45°	22.2	18.8	13.9	10.8	9.8	10.0	11.0	13.5	16.9	22.6	25.9
47.5°	19.2	16.1	11.4	9.0	8.2	8.4	9.6	11.6	14.5	19.6	23.0
50°	16.5	13.7	10.0	7.5	6.9	7.3	8.6	10.4	12.8	17.3	20.2
52.5°	14.9	12.2	9.2	6.5	6.1	6.5	7.7	9.4	11.6	15.3	18.1
55°	14.1	12.0	9.2	5.9	5.3	5.7	6.9	8.6	10.4	13.9	16.3
57.5°	13.9	12.4	9.8	5.3	4.5	4.9	6.1	7.7	9.6	12.6	14.7
60°	13.0	11.8	9.6	4.3	3.5	4.1	5.1	6.7	8.8	11.8	13.7
62.5°	11.4	10.4	8.4	3.5	2.7	3.1	4.3	5.9	8.0	10.8	12.8
65°	9.4	8.4	6.5	2.2	1.6	2.0	3.3	5.1	6.9	9.8	11.6
67.5°	6.9	5.9	4.5	1.4	0.8	1.4	2.7	4.3	6.3	8.8	10.6
70°	4.3	3.5	2.4	0.8	0.6	1.2	2.4	4.1	5.7	8.2	10.0
72.5°	2.4	1.6	1.0	0.4	0.6	1.2	2.4	4.1	5.5	7.7	9.4
75°	1.8	1.0	0.4	0.2	0.4	1.0	2.2	3.7	5.3	7.3	9.0
77.5°	1.2	0.6	0.2	0.0	0.2	0.8	2.0	3.5	4.9	6.9	8.6
80°	0.2	0.0	0.0	0.0	0.0	0.6	1.8	3.1	4.5	6.1	7.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	1.4	2.7	3.9	5.1	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	3.1	3.9	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.4	2.9
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°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2.5°	83.4	84.6	84.6	85.4	86.4	88.3	89.3	90.7	91.7	92.8	93.2
5°	77.1	77.3	77.5	77.9	79.1	81.1	83.0	85.2	87.9	89.9	91.1
7.5°	71.8	71.8	71.8	72.4	73.6	75.0	76.9	79.9	83.0	85.4	87.5
10°	67.3	67.9	68.1	69.1	70.5	72.4	74.4	77.1	80.5	83.8	87.5
12.5°	64.4	65.0	66.1	67.1	68.5	70.5	72.8	76.2	83.4	90.1	97.9
15°	61.8	62.6	63.8	65.2	66.9	69.1	71.6	78.7	95.4	108.1	120.3
17.5°	58.9	60.1	61.8	63.2	65.2	67.7	70.7	84.6	117.4	138.4	159.2
20°	55.2	56.9	58.7	61.0	63.4	66.3	70.7	96.8	149.2	179.4	206.9
22.5°	51.8	53.4	55.7	58.5	61.4	64.2	71.8	115.4	190.2	228.3	263.2
25°	48.9	51.0	53.2	55.7	58.9	62.2	74.2	141.5	239.5	288.7	313.3
27.5°	46.3	48.7	51.0	53.0	55.9	59.5	79.7	176.3	297.9	347.8	367.2
30°	43.6	46.5	48.7	50.8	53.6	57.5	88.1	220.8	362.7	411.2	413.2
32.5°	41.4	44.0	46.7	48.7	51.4	55.9	99.7	272.8	429.1	476.0	456.9
35°	38.9	42.0	44.4	46.7	49.5	54.4	113.1	328.8	496.2	535.6	500.3
37.5°	36.5	40.0	43.0	44.6	47.5	53.0	122.9	387.4	564.7	593.7	538.4
40°	34.3	38.1	41.6	43.2	44.6	51.2	124.4	447.3	634.2	651.0	574.3
42.5°	31.8	36.1	39.1	41.4	42.6	49.9	115.8	497.9	692.5	708.0	621.2
45°	29.2	34.3	36.7	38.3	40.8	50.8	104.8	537.0	759.2	785.9	698.5
47.5°	26.5	32.2	34.3	35.5	38.7	55.7	100.7	563.1	869.1	924.6	828.7
50°	24.1	30.4	32.6	32.4	38.3	62.0	105.2	582.9	1034.2	1099.5	1007.3
52.5°	21.4	28.3	31.0	30.2	41.4	66.9	114.2	598.6	1161.2	1304.6	1247.3
55°	19.2	26.1	28.5	28.3	47.1	70.5	121.1	515.8	1213.8	1495.2	1517.6
57.5°	17.5	23.6	25.7	29.2	50.8	70.5	140.1	366.2	1214.9	1635.4	1876.4
60°	16.1	21.4	22.8	32.0	49.3	66.9	138.6	224.3	1119.7	1625.9	2067.2
62.5°	14.9	19.4	21.2	32.8	43.6	66.3	125.2	139.0	954.9	1502.1	1928.8
65°	13.9	17.7	20.4	30.2	39.6	70.9	84.4	99.9	774.5	1361.0	1770.0
67.5°	12.8	16.3	21.6	24.7	35.9	63.4	61.0	70.9	607.9	1206.3	1624.2
70°	12.0	15.5	22.8	20.2	31.4	49.5	43.2	53.8	465.4	1006.5	1418.9
72.5°	11.4	14.5	19.2	15.9	25.5	38.3	30.2	39.1	304.2	785.7	1156.8
75°	10.8	13.3	14.1	12.8	19.0	25.1	22.8	26.3	181.2	574.3	877.7
77.5°	10.6	12.4	11.4	10.4	12.8	14.9	17.3	17.7	88.5	287.3	459.9
80°	9.4	11.2	9.8	8.6	8.8	9.8	12.8	11.8	20.2	73.0	122.7
82.5°	7.3	8.8	8.2	7.1	7.1	7.1	8.6	8.0	6.5	32.8	55.5
85°	5.1	6.1	6.1	5.7	5.5	5.5	5.3	5.1	1.8	2.0	3.1
87.5°	3.5	4.3	4.5	4.3	3.7	3.3	2.9	2.4	0.8	0.0	0.4
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°	358°	360°
0°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2.5°	94.6	95.2	95.2	94.4	93.8	92.1	90.5	88.9	88.5	88.3
5°	94.6	97.0	98.3	98.1	96.6	94.0	90.5	86.8	85.8	85.4
7.5°	93.2	97.9	101.5	102.1	99.5	94.8	88.5	83.0	81.5	80.9
10°	96.4	105.6	112.9	114.0	110.9	101.7	91.5	82.2	79.9	78.5
12.5°	114.0	129.0	138.0	142.3	136.4	124.8	107.8	91.1	86.0	83.8
15°	149.4	170.8	188.0	188.0	182.5	161.9	140.5	113.4	106.4	100.3
17.5°	194.9	221.8	236.9	235.3	226.9	212.4	186.7	147.8	133.7	127.4
20°	246.7	262.8	266.3	265.2	261.6	253.2	235.5	193.7	174.7	164.9
22.5°	291.5	287.3	282.2	278.1	277.1	279.5	277.1	244.8	230.0	212.6
25°	321.9	297.7	282.4	275.0	278.5	292.6	307.8	295.8	284.0	266.1
27.5°	338.4	296.4	274.4	266.9	272.8	292.8	326.0	346.4	334.1	325.6
30°	347.4	295.4	269.3	262.0	270.9	296.0	338.6	393.7	394.1	380.4
32.5°	360.2	301.9	270.3	263.6	275.6	305.8	354.5	441.8	453.6	446.3
35°	374.7	311.9	275.0	268.9	283.8	318.9	372.3	490.3	515.0	512.5
37.5°	388.4	323.1	286.0	280.1	296.2	330.1	389.4	538.0	572.3	580.8
40°	402.6	338.8	319.9	325.6	334.6	347.8	404.7	579.4	635.3	648.1
42.5°	436.3	393.3	422.2	433.0	434.2	406.9	438.1	632.4	697.2	712.5
45°	511.3	490.1	573.1	588.4	580.4	497.6	518.6	708.9	783.9	791.6
47.5°	606.1	615.9	779.6	832.4	784.7	604.7	616.3	869.7	942.5	939.6
50°	716.6	762.9	1014.0	1138.6	1024.4	743.7	728.8	1067.5	1155.7	1147.0
52.5°	847.3	933.7	1295.8	1472.8	1364.7	900.1	894.0	1329.4	1383.3	1355.3
55°	1011.8	1098.7	1620.0	1867.2	1713.5	1090.9	1111.9	1633.2	1643.6	1554.9
57.5°	1257.3	1313.7	2002.0	2319.6	2077.6	1350.2	1502.5	2037.5	1913.1	1745.1
60°	1702.9	1590.4	2371.2	2782.4	2465.0	1715.0	2017.7	2277.0	2002.8	1771.2
62.5°	1858.1	1825.2	2602.4	2978.1	2725.5	2014.4	2151.6	2141.2	1886.6	1672.5
65°	1623.0	1766.7	2561.0	2874.8	2692.1	1965.1	1930.9	1991.4	1755.7	1522.7
67.5°	1499.3	1629.3	2404.2	2589.6	2506.8	1797.7	1721.1	1704.6	1474.0	1288.5
70°	1374.5	1503.3	2176.9	2200.0	2161.4	1524.9	1424.2	1313.5	1101.7	940.5
72.5°	1224.4	1295.4	1861.5	1752.3	1708.6	1197.7	1176.5	989.2	825.9	687.4
75°	1067.9	1047.3	1451.3	1202.6	1235.2	931.9	993.7	726.4	605.1	494.8
77.5°	776.7	761.5	972.1	730.5	809.0	610.4	548.4	289.9	276.0	238.1
80°	433.4	522.5	525.0	409.4	510.7	398.0	137.2	9.6	6.1	9.0
82.5°	201.4	224.7	284.6	189.8	291.3	197.1	28.3	0.0	0.0	0.0
85°	65.2	95.4	79.9	27.9	70.5	66.7	4.7	0.0	0.0	0.0
87.5°	3.9	8.0	2.0	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

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