

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: P628641

Luminaire Tested: GWS-SA1A-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

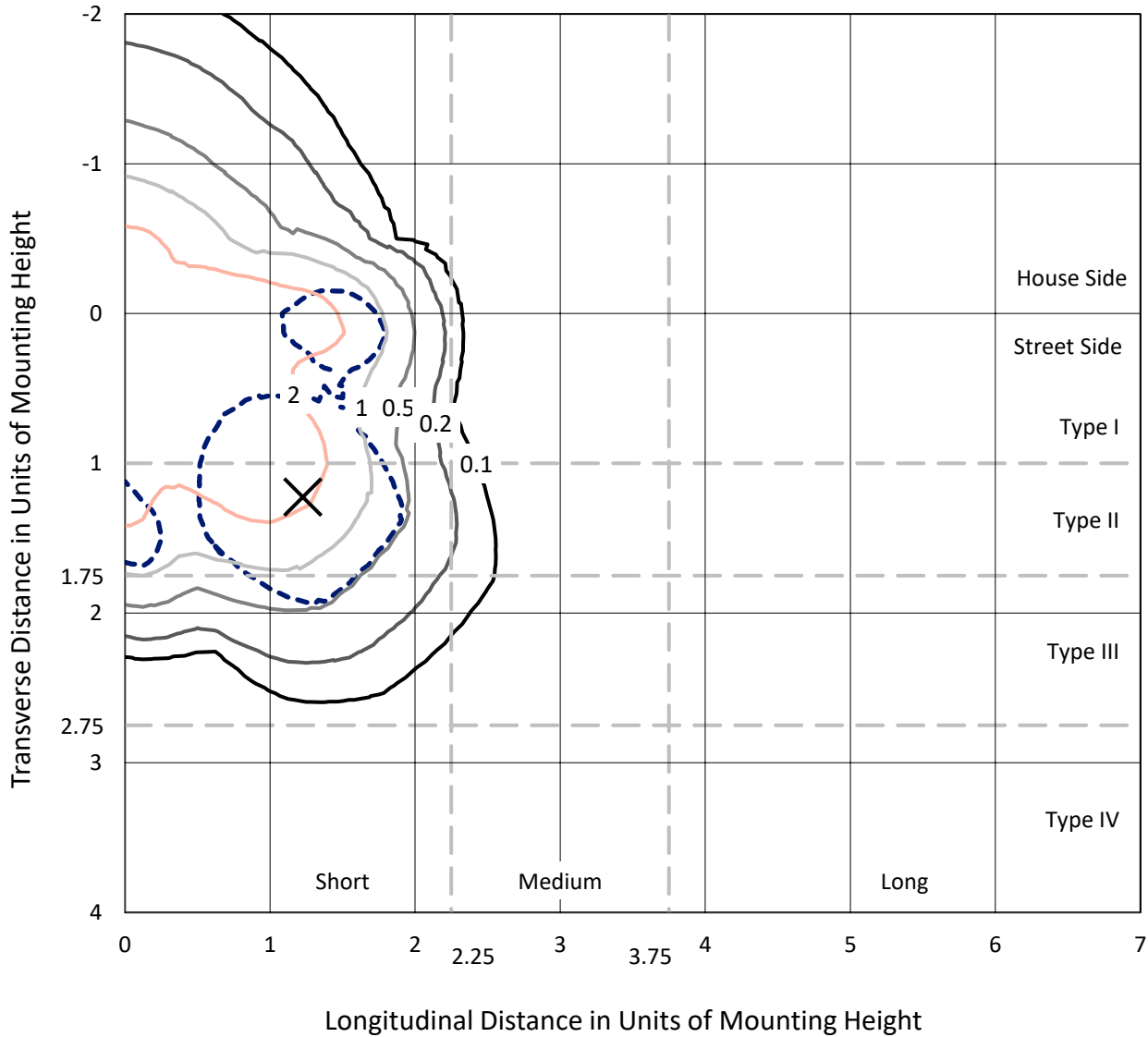
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

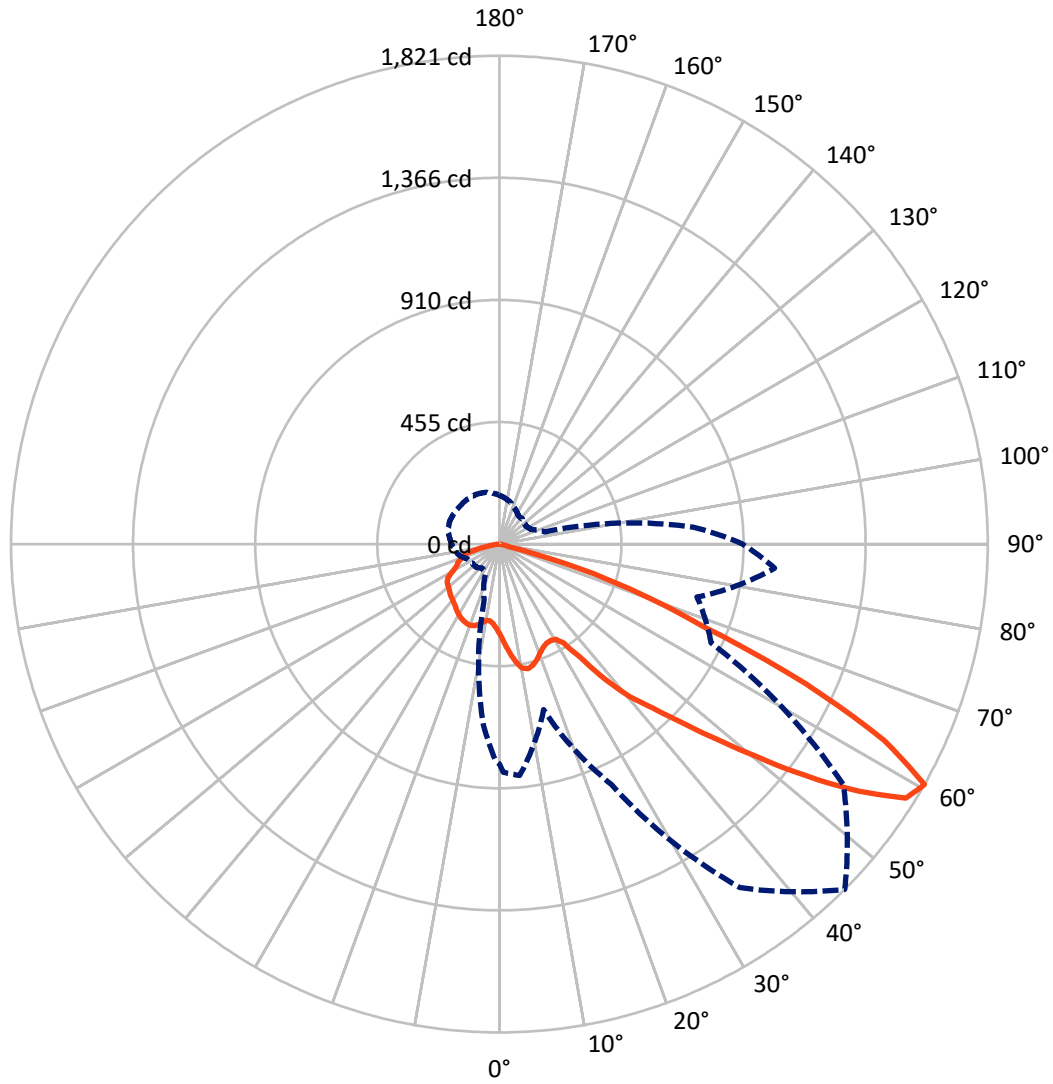
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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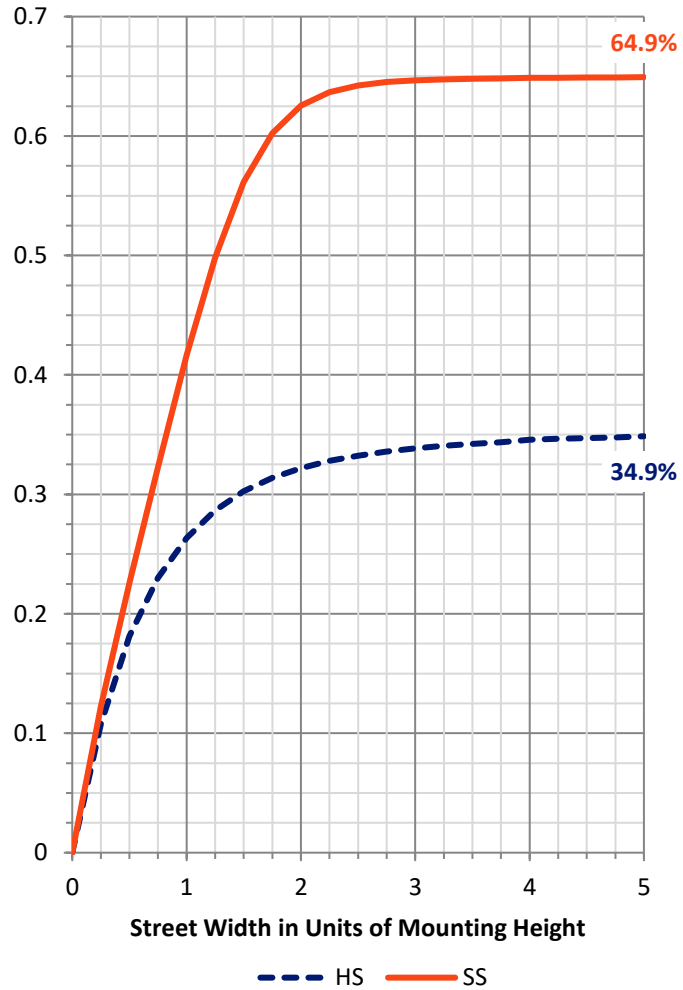
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.5	0.0	574.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	1064.4	0.0	1064.4
	% Fixture	64.9	0.0	64.9
Total	Lumens	1638.9	0.0	1638.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	2.0
10°-20°	103.8	6.3
20°-30°	168.6	10.3
30°-40°	237.8	14.5
40°-50°	328.6	20.1
50°-60°	423.0	25.8
60°-70°	268.0	16.4
70°-80°	68.8	4.2
80°-90°	7.4	0.4
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°	1638.9	100.0
0°-180°	1638.9	100.0

Coefficient of Utilization



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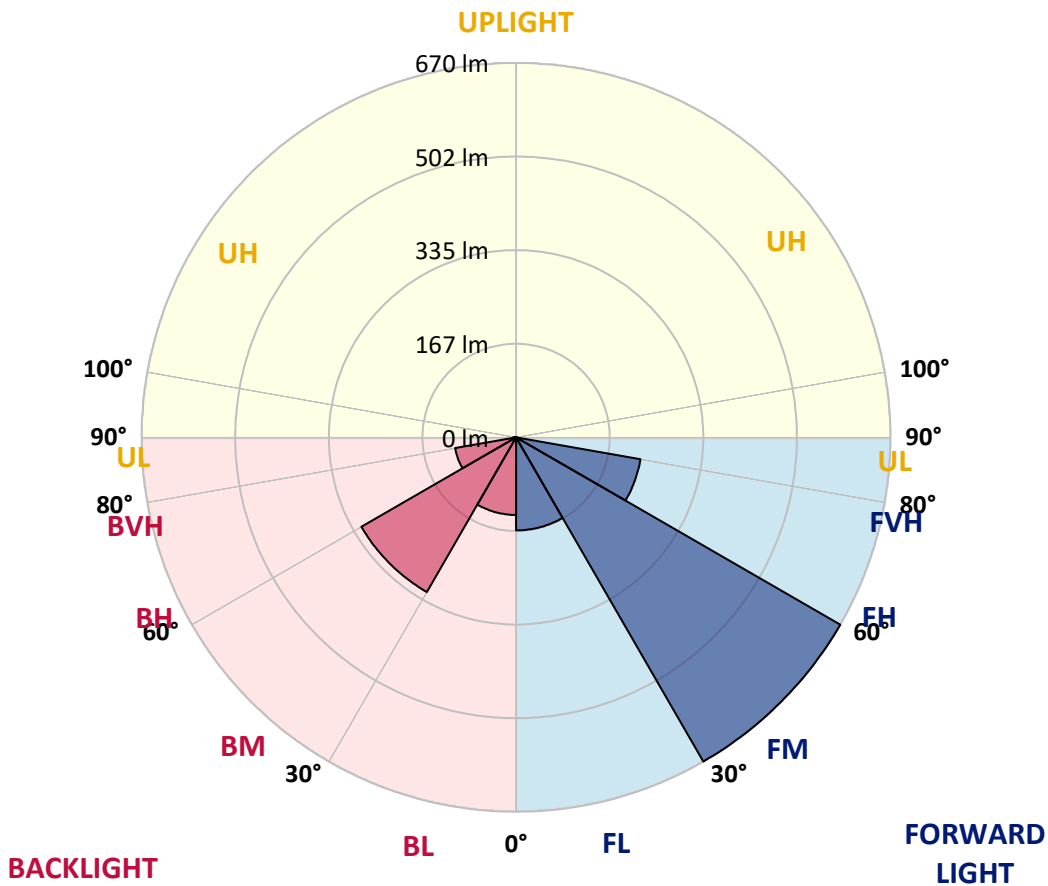
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.4	10.2			
FM (30°-60°)	669.9	40.9			
FH (60°-80°)	226.1	13.8			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	138.9	8.5	B1/500		
BM (30°-60°)	319.6	19.5	B1/1000		
BH (60°-80°)	110.7	6.8	B1/500		G1/500
BVH (80°-90°)	5.4	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7
2.5°	352.1	354.5	356.0	358.9	364.0	366.9	370.0	366.6	367.5	367.0	361.5
5°	373.0	375.9	379.8	388.2	397.6	402.9	407.9	407.1	402.5	394.6	389.1
7.5°	392.5	395.8	402.6	416.3	430.2	438.3	444.3	440.4	436.5	424.2	410.3
10°	407.9	409.8	419.0	437.3	453.5	462.7	470.0	469.1	463.7	449.9	431.1
12.5°	422.3	423.6	433.5	451.9	466.4	470.5	476.5	478.4	476.6	466.3	447.8
15°	437.7	440.3	449.5	463.4	470.0	465.8	467.9	473.3	478.4	478.4	461.5
17.5°	452.2	454.4	463.7	469.7	463.4	452.3	452.9	459.8	472.0	484.7	473.9
20°	464.9	467.0	476.2	470.5	450.5	434.3	433.8	442.2	461.9	488.8	487.3
22.5°	478.9	481.9	489.5	471.1	438.5	417.9	417.8	426.5	453.1	492.9	502.6
25°	498.7	503.4	507.3	476.3	432.0	407.3	409.2	417.5	450.2	499.5	525.3
27.5°	528.1	531.9	531.6	487.3	431.7	402.9	407.0	416.6	455.3	511.2	549.2
30°	560.0	561.9	558.8	502.6	438.6	405.6	411.6	423.0	468.2	530.5	584.3
32.5°	595.3	597.7	591.7	525.6	454.7	425.6	438.8	444.3	486.4	558.5	621.5
35°	635.8	640.5	628.0	555.9	502.0	498.4	517.6	510.4	525.0	591.5	661.3
37.5°	678.5	678.6	660.7	600.8	594.8	601.0	639.4	616.9	606.8	628.3	701.9
40°	714.7	713.8	686.3	661.3	675.6	700.1	746.5	711.9	685.5	677.7	735.5
42.5°	750.8	747.5	719.8	699.8	731.3	781.6	834.0	791.7	736.0	722.6	768.7
45°	797.1	796.0	762.6	715.1	781.6	872.9	942.5	873.8	765.9	748.7	824.0
47.5°	871.7	866.6	804.3	713.9	828.8	994.6	1082.4	977.3	786.7	749.3	913.2
50°	944.7	938.4	854.2	713.8	877.4	1120.7	1247.6	1103.0	808.1	752.9	1003.9
52.5°	1018.4	1018.4	936.0	730.7	928.5	1261.6	1438.5	1259.6	844.4	800.1	1115.5
55°	1062.3	1074.0	1028.1	759.4	988.3	1427.4	1627.2	1428.7	900.6	885.2	1218.5
57.5°	1006.6	1028.5	1021.9	739.4	1023.5	1549.1	1787.3	1556.9	928.3	895.3	1203.0
60°	820.2	850.7	865.9	638.5	988.7	1563.3	1820.8	1565.4	871.0	762.4	1030.5
62.5°	545.3	570.3	593.5	456.2	856.0	1406.3	1610.4	1406.8	727.4	569.0	713.9
65°	267.5	286.1	311.0	269.7	668.7	1175.1	1255.6	1136.8	526.2	318.5	364.2
67.5°	70.0	75.2	78.7	104.7	479.0	844.2	818.9	831.5	338.0	104.1	95.2
70°	36.3	36.6	36.5	43.2	323.8	536.6	564.3	522.1	235.9	43.5	37.5
72.5°	26.0	26.1	25.7	29.1	156.3	307.4	318.5	315.1	123.6	25.8	25.7
75°	17.0	17.1	16.8	17.1	23.6	35.0	32.3	33.9	20.6	16.4	16.4
77.5°	10.1	10.2	10.1	10.4	10.1	10.1	9.3	9.3	8.9	8.9	9.0
80°	6.8	6.8	6.6	6.9	6.3	6.3	6.0	5.9	5.4	5.3	5.3
82.5°	4.1	4.2	4.1	4.1	3.8	3.8	3.5	3.3	2.9	2.9	2.7
85°	2.1	2.1	2.0	2.0	1.7	1.5	1.2	1.2	0.9	0.8	0.8
87.5°	0.3	0.3	0.2	0.2	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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7
2.5°	360.0	357.0	352.4	348.1	344.0	339.8	335.0	330.1	325.9	321.5	319.3
5°	381.7	375.6	363.9	353.5	344.2	336.5	328.3	321.2	314.6	309.2	306.5
7.5°	401.4	391.8	374.1	357.7	345.1	334.6	323.2	312.7	303.8	297.2	294.6
10°	419.6	408.2	384.9	364.2	349.4	337.7	323.8	309.5	297.8	289.1	287.0
12.5°	434.3	421.2	393.4	369.4	352.0	339.4	327.1	314.8	303.2	291.9	290.1
15°	447.4	431.9	399.9	372.7	351.1	335.0	324.7	323.2	323.2	310.4	306.8
17.5°	458.6	441.6	405.2	374.2	345.4	322.1	315.8	328.9	343.6	334.4	326.3
20°	471.5	451.0	409.5	374.2	334.9	305.7	305.1	327.4	349.1	349.3	340.7
22.5°	484.6	461.8	414.6	372.9	320.5	286.8	297.9	321.4	340.7	349.0	343.1
25°	505.8	476.8	422.7	371.8	303.6	273.9	291.5	313.4	329.8	338.5	334.7
27.5°	532.6	496.6	435.0	373.5	287.0	266.2	284.6	303.0	317.9	325.6	322.9
30°	562.7	519.4	448.3	376.3	275.0	262.3	276.3	291.2	304.4	312.1	310.8
32.5°	601.0	544.2	459.7	372.4	268.2	260.4	267.6	278.3	291.0	295.8	296.9
35°	646.8	571.5	468.4	357.1	262.0	258.3	258.1	264.7	273.8	281.4	282.2
37.5°	689.0	603.5	478.0	330.8	250.9	253.0	247.0	250.9	259.8	267.5	270.5
40°	730.7	636.0	491.4	297.3	236.4	241.3	234.3	237.0	244.0	254.1	258.9
42.5°	771.3	665.2	505.5	263.1	221.8	225.0	219.7	222.4	229.8	242.4	247.8
45°	815.4	704.9	516.4	230.8	209.2	207.8	203.6	207.5	218.6	232.5	238.9
47.5°	898.9	767.4	523.6	209.3	202.4	192.7	187.9	196.3	208.9	222.9	230.7
50°	1000.9	857.8	521.5	195.7	196.6	177.0	175.4	186.5	200.0	214.6	223.2
52.5°	1081.7	946.5	497.7	182.6	185.2	167.1	162.3	178.6	191.5	206.3	215.2
55°	1143.4	976.4	424.4	167.1	166.5	159.9	149.9	170.3	182.9	196.7	206.3
57.5°	1093.1	909.9	314.6	145.8	142.2	145.7	135.9	156.3	172.4	186.1	194.6
60°	907.2	725.5	175.2	129.1	118.9	127.3	125.8	141.6	161.0	175.4	182.8
62.5°	615.8	483.1	103.9	102.1	96.4	108.4	116.4	126.7	145.8	157.5	164.4
65°	306.9	234.7	69.1	76.4	77.2	89.2	104.2	115.6	131.5	143.6	150.5
67.5°	89.1	73.0	52.6	58.4	66.5	76.1	88.1	101.7	117.1	131.4	139.5
70°	38.4	38.9	41.7	48.7	56.6	66.5	78.5	91.8	104.8	115.8	121.9
72.5°	27.2	28.2	31.4	38.4	46.0	55.4	67.4	80.2	89.7	100.8	107.2
75°	17.4	18.2	20.7	26.1	31.7	40.8	52.3	64.0	73.7	81.7	87.8
77.5°	9.6	9.8	11.9	15.0	18.8	24.6	33.0	42.2	49.4	53.9	59.5
80°	5.6	5.6	6.6	8.6	10.8	14.4	19.1	23.6	27.9	30.8	33.5
82.5°	3.0	3.0	3.5	4.7	5.9	8.0	10.7	12.9	15.6	17.1	18.9
85°	0.9	0.9	1.2	1.7	2.1	3.0	4.2	5.4	6.6	7.7	8.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7
2.5°	318.8	316.7	315.5	314.0	314.5	313.1	312.4	312.8	310.1	312.8	315.5
5°	305.4	302.4	300.0	298.1	297.2	295.4	294.3	294.3	292.7	295.4	298.7
7.5°	293.7	291.3	290.1	288.9	287.6	285.9	284.1	283.5	282.5	285.3	288.2
10°	285.9	286.2	287.0	288.6	288.3	287.3	284.6	283.1	283.1	286.4	290.7
12.5°	289.5	292.7	294.5	297.5	298.1	297.2	294.5	293.3	296.3	301.2	308.4
15°	303.5	305.6	307.1	309.5	309.3	308.6	306.5	307.4	317.3	326.9	333.4
17.5°	318.7	316.3	316.0	317.5	317.9	317.0	315.8	319.9	336.2	345.2	348.5
20°	329.6	321.4	319.6	320.2	321.4	320.9	320.9	327.5	344.5	348.7	344.5
22.5°	332.9	321.2	318.5	318.7	320.3	320.5	321.2	328.1	338.0	338.2	331.7
25°	327.7	316.4	314.5	314.8	316.7	316.6	316.9	320.8	325.1	323.3	318.5
27.5°	317.8	308.0	307.4	309.0	311.6	310.2	309.3	310.4	312.5	310.2	306.0
30°	306.5	298.2	298.5	301.7	304.4	302.1	299.9	300.5	300.6	298.2	293.4
32.5°	294.6	288.5	289.5	292.8	296.0	293.6	291.2	290.9	288.0	285.2	280.5
35°	282.8	280.4	281.7	284.4	287.1	285.2	283.7	282.8	276.6	272.4	268.5
37.5°	272.0	273.8	276.2	277.8	278.7	278.6	277.7	275.6	267.5	262.5	257.4
40°	262.3	267.9	270.5	271.2	272.6	272.3	272.1	269.1	258.4	253.2	247.3
42.5°	253.6	261.4	265.8	266.5	267.3	267.5	267.0	262.6	250.5	244.3	238.8
45°	245.2	255.4	261.0	260.2	261.3	261.3	261.7	256.0	242.7	236.4	230.5
47.5°	237.9	249.9	255.0	254.1	254.7	255.1	255.6	249.0	234.1	228.1	222.1
50°	231.1	243.9	248.2	248.5	248.5	249.6	249.4	243.0	226.9	220.4	214.4
52.5°	223.9	237.7	242.4	244.3	244.9	245.4	243.3	235.8	219.5	211.7	206.2
55°	215.5	231.4	235.6	238.2	239.4	239.1	236.2	228.6	212.0	204.2	197.9
57.5°	202.7	217.9	223.9	225.1	227.1	225.9	222.5	216.1	200.0	192.2	185.8
60°	188.8	199.7	204.5	205.6	204.1	204.5	204.1	197.9	184.0	177.8	171.2
62.5°	170.4	180.2	185.3	186.7	184.1	185.8	185.2	177.5	163.5	157.1	151.2
65°	156.6	167.3	173.3	174.0	173.3	174.0	171.9	162.6	149.4	142.8	136.8
67.5°	145.8	156.8	163.1	165.2	164.4	164.3	161.0	150.2	136.5	129.3	121.6
70°	127.2	136.8	144.9	150.0	150.0	147.2	140.9	130.8	119.8	113.7	107.7
72.5°	112.6	124.8	132.7	138.0	139.1	137.4	128.5	117.9	105.3	99.1	92.8
75°	92.8	104.7	113.2	120.1	121.5	119.7	109.5	99.0	87.2	81.2	74.9
77.5°	62.0	69.1	76.0	82.3	80.9	82.1	75.2	67.3	60.1	55.6	52.7
80°	35.0	39.6	41.7	45.2	45.2	45.2	40.7	36.9	32.9	30.3	27.5
82.5°	19.8	22.8	23.7	26.6	27.3	27.5	24.5	22.1	19.5	18.2	16.2
85°	9.2	10.8	11.0	12.6	13.2	14.4	13.1	11.4	9.9	9.3	8.1
87.5°	0.3	0.9	1.2	2.3	3.0	3.5	3.8	3.8	3.2	2.9	2.4
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°	359°	360°
0°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7
2.5°	318.8	322.4	326.6	329.6	335.0	339.5	344.2	349.3	353.0	352.1
5°	302.7	308.7	316.4	323.5	333.5	343.7	355.0	366.6	373.3	373.0
7.5°	293.7	302.3	311.6	321.1	332.9	347.6	364.9	382.9	392.1	392.5
10°	298.5	307.7	314.0	322.0	334.4	352.9	373.6	395.2	405.8	407.9
12.5°	313.7	313.0	312.5	318.2	333.2	356.7	382.0	407.9	419.7	422.3
15°	328.1	312.7	303.3	307.2	327.8	359.1	390.3	421.7	435.0	437.7
17.5°	330.8	307.4	290.1	292.8	319.3	359.8	398.2	435.2	449.6	452.2
20°	323.3	300.6	280.5	276.8	308.4	357.9	403.2	446.5	462.2	464.9
22.5°	313.9	294.6	273.3	263.5	295.2	355.9	408.8	458.3	476.5	478.9
25°	303.9	287.0	266.5	251.7	280.2	354.7	418.1	473.9	495.9	498.7
27.5°	293.4	277.7	260.7	246.0	266.4	356.2	431.3	499.2	524.1	528.1
30°	282.2	268.4	256.9	244.0	256.9	357.6	445.9	525.0	554.3	560.0
32.5°	270.5	259.8	253.0	244.9	251.1	354.4	458.6	554.0	590.3	595.3
35°	258.7	251.1	248.1	246.6	243.3	342.8	469.0	583.3	631.5	635.8
37.5°	247.8	242.1	241.2	242.8	231.3	323.9	481.0	620.5	671.9	678.5
40°	237.6	232.3	232.2	231.9	218.0	298.1	497.2	658.3	711.6	714.7
42.5°	228.1	221.5	222.7	219.1	207.2	270.2	512.5	690.6	748.7	750.8
45°	219.7	211.0	212.3	207.8	202.1	240.9	526.0	728.8	795.7	797.1
47.5°	211.6	202.3	198.5	198.2	201.2	213.8	539.3	802.2	869.3	871.7
50°	204.1	194.0	183.4	190.0	195.7	193.6	555.8	880.9	945.3	944.7
52.5°	196.9	183.7	168.5	181.3	181.3	178.6	551.1	928.6	1008.1	1018.4
55°	188.6	167.0	153.0	166.7	160.1	165.0	468.7	944.3	1047.6	1062.3
57.5°	172.2	146.4	134.3	141.6	131.7	153.0	336.7	866.8	980.5	1006.6
60°	156.5	131.2	123.3	121.9	109.0	124.8	218.2	678.6	807.0	820.2
62.5°	138.0	118.2	111.4	101.1	87.7	90.9	132.1	446.6	542.3	545.3
65°	124.0	107.1	94.2	81.8	71.8	65.9	78.1	215.3	271.1	267.5
67.5°	106.5	91.8	79.4	70.6	62.3	55.0	52.0	64.0	72.4	70.0
70°	94.8	80.6	68.8	60.4	52.7	45.4	40.1	37.7	36.9	36.3
72.5°	81.7	69.4	57.1	49.0	41.7	35.0	30.2	27.3	26.6	26.0
75°	65.2	53.6	42.3	34.7	28.4	23.6	20.4	18.0	17.6	17.0
77.5°	43.1	34.4	25.2	20.6	16.8	14.3	12.2	10.7	10.4	10.1
80°	23.7	19.8	15.5	12.5	10.1	8.7	8.0	7.1	6.9	6.8
82.5°	14.1	11.9	8.9	7.1	5.9	5.3	4.8	4.4	4.2	4.1
85°	7.1	5.6	3.9	3.3	3.0	2.7	2.7	2.3	2.1	2.1
87.5°	1.8	1.5	0.9	0.8	0.8	0.8	0.6	0.5	0.5	0.3
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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