

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: P628637

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-722-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 1630.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

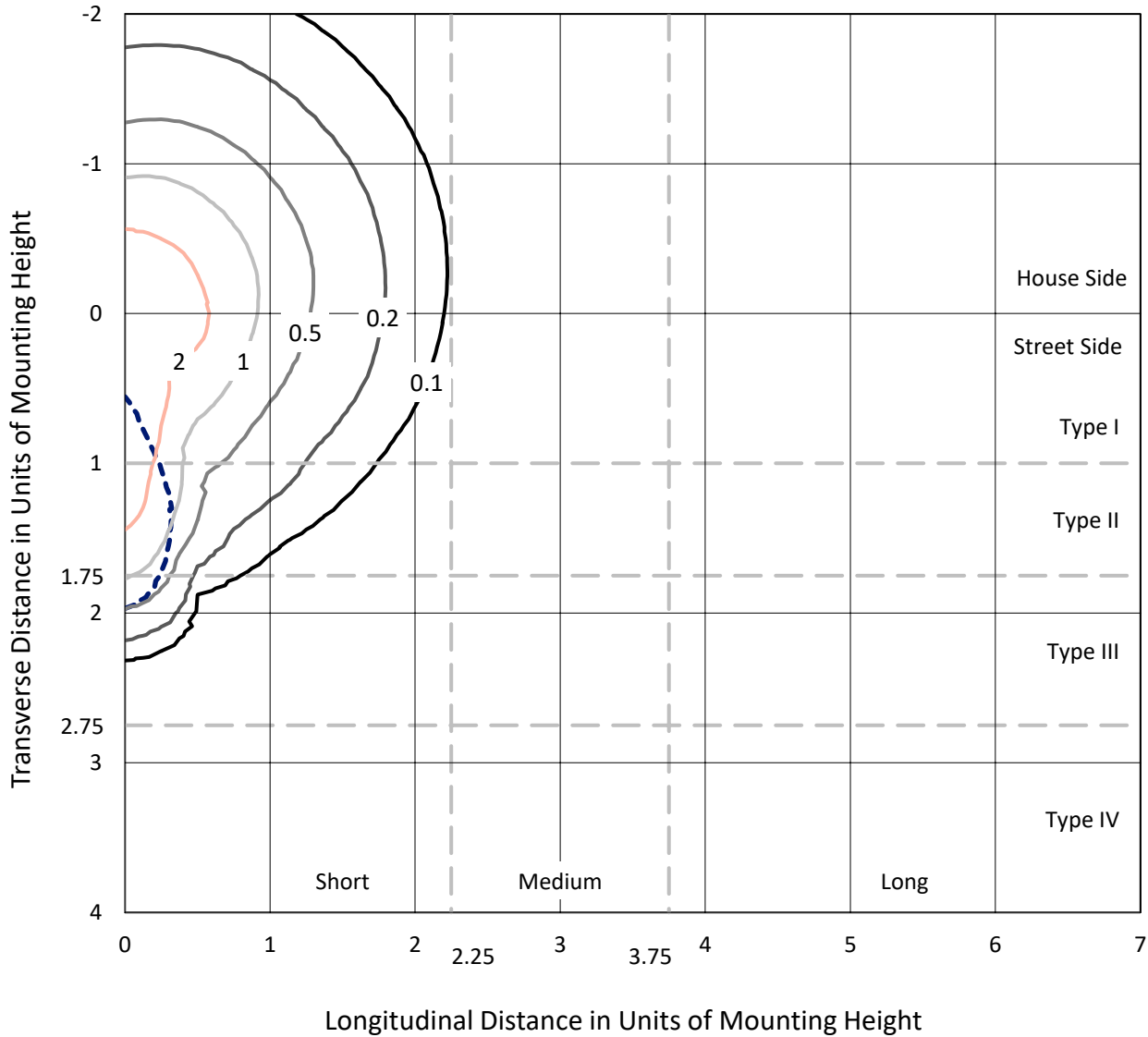
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

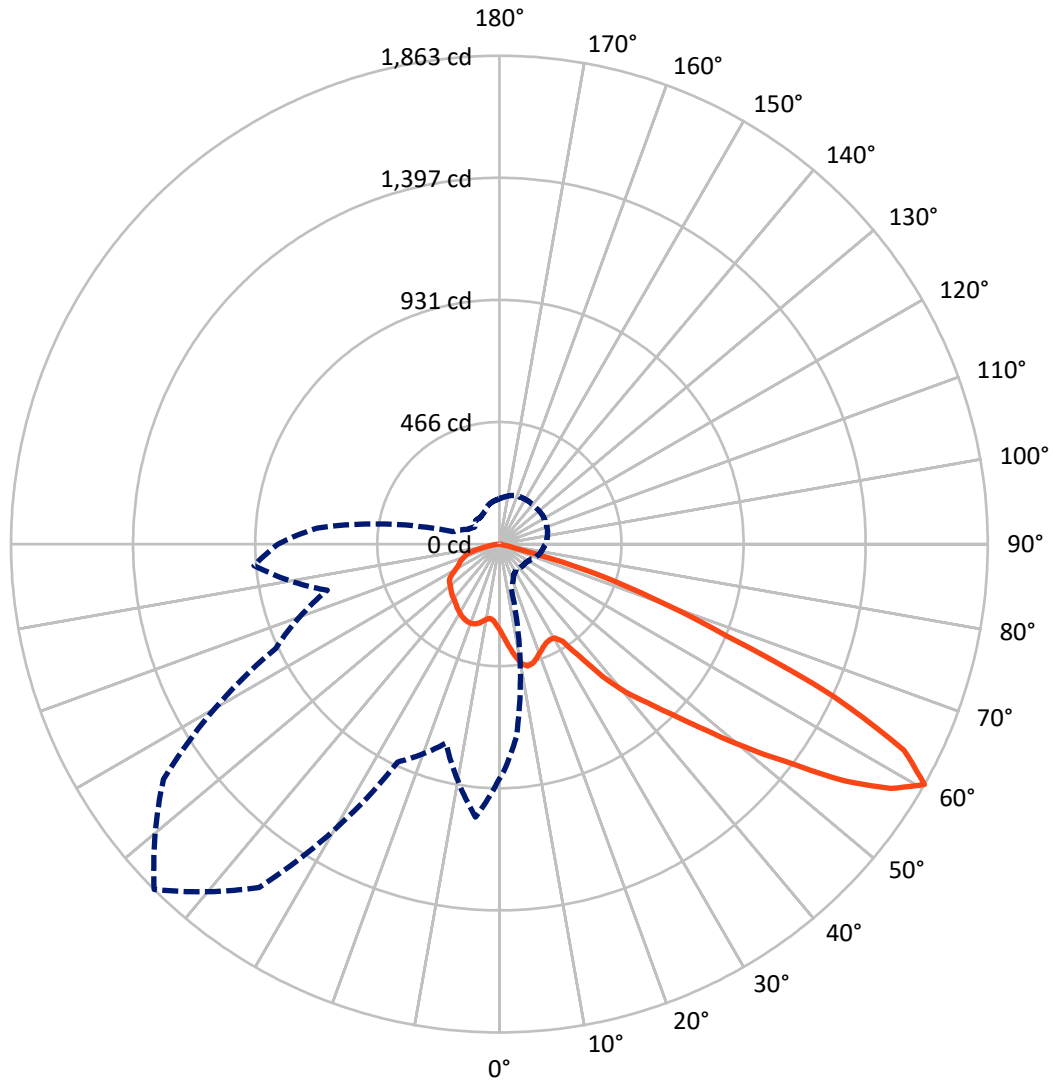
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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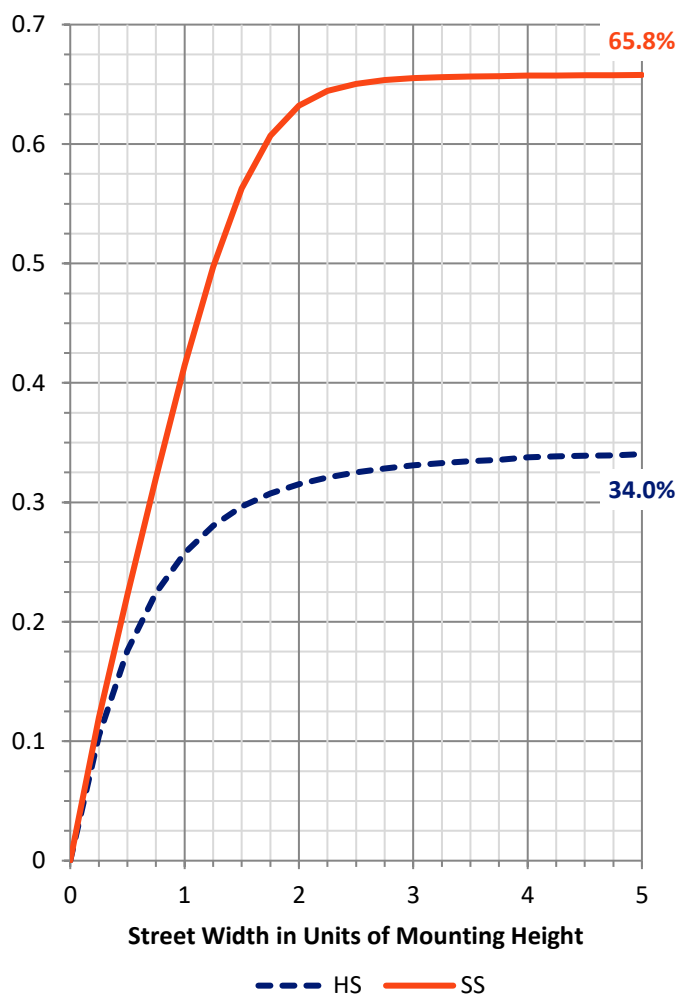
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.8	0.0	557.8
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	1072.7	0.0	1072.7
	% Fixture	65.8	0.0	65.8
Total	Lumens	1630.5	0.0	1630.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	2.0
10°-20°	103.1	6.3
20°-30°	167.8	10.3
30°-40°	235.8	14.5
40°-50°	322.6	19.8
50°-60°	413.9	25.4
60°-70°	278.7	17.1
70°-80°	69.7	4.3
80°-90°	6.8	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°	1630.5	100.0
0°-180°	1630.5	100.0

Coefficient of Utilization



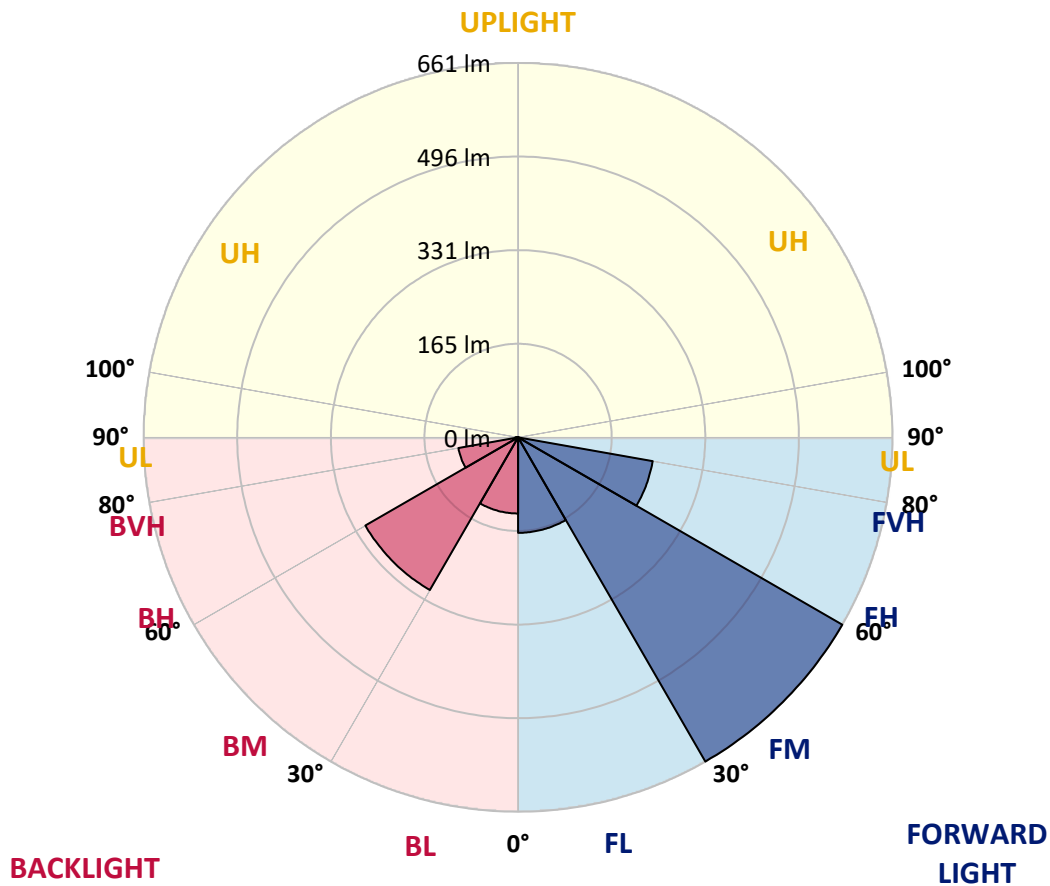
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.6	10.3			
FM (30°-60°)	661.0	40.5			
FH (60°-80°)	241.4	14.8			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	134.5	8.2	B1/500		
BM (30°-60°)	311.3	19.1	B1/1000		
BH (60°-80°)	107.0	6.6	B0/110		G0/110
BVH (80°-90°)	5.0	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-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9
2.5°	347.9	347.2	346.4	340.6	339.1	334.9	331.9	328.1	322.7	319.7	317.1
5°	369.7	368.5	364.4	352.4	344.6	336.1	329.0	321.2	312.9	307.5	303.3
7.5°	390.3	390.0	383.1	363.2	350.6	338.3	328.7	317.3	305.4	297.3	291.9
10°	409.3	407.1	398.8	373.0	356.5	342.4	332.0	319.4	305.6	294.6	287.4
12.5°	426.2	423.3	411.9	382.0	361.6	344.2	332.9	322.5	313.4	304.2	296.0
15°	440.0	436.5	425.0	390.4	366.1	343.1	327.4	319.2	322.4	326.5	317.3
17.5°	452.9	449.3	435.2	396.6	367.4	336.7	313.7	310.2	326.2	344.6	340.4
20°	463.7	459.6	443.3	399.6	365.0	324.3	296.0	302.0	323.0	345.1	351.8
22.5°	475.4	472.1	452.4	403.9	362.0	307.4	281.1	295.8	317.6	337.0	347.2
25°	494.2	490.1	466.7	411.6	360.5	291.5	270.4	289.8	310.1	327.7	335.6
27.5°	521.4	513.9	486.2	425.0	362.2	276.4	263.7	282.5	301.4	316.4	322.8
30°	550.9	541.9	507.8	438.8	364.6	267.3	260.1	274.0	288.0	303.0	310.1
32.5°	585.9	578.0	531.0	449.1	359.5	263.1	257.4	264.9	276.0	288.0	293.9
35°	627.7	613.4	556.2	457.5	343.0	256.9	255.0	254.8	260.7	272.4	279.0
37.5°	672.6	657.3	587.3	466.6	317.3	247.2	249.3	243.0	248.4	257.7	265.2
40°	709.4	693.3	618.7	478.9	285.2	231.8	236.7	229.9	233.2	242.8	251.2
42.5°	745.4	728.3	647.9	492.8	254.1	216.8	219.2	216.7	217.7	227.8	239.5
45°	792.7	773.5	684.0	502.7	226.1	205.0	202.7	198.4	203.9	217.0	229.4
47.5°	871.7	848.7	743.0	509.2	205.9	198.2	187.9	185.3	192.2	206.8	219.7
50°	964.0	944.2	837.3	508.9	190.7	192.5	173.4	171.2	182.6	197.3	211.0
52.5°	1039.7	1019.6	917.9	493.9	178.2	180.3	165.0	158.7	174.3	188.0	201.7
55°	1100.8	1078.2	955.0	431.1	162.5	161.0	155.9	144.3	164.0	178.7	191.5
57.5°	1068.0	1040.9	910.1	327.8	146.3	136.8	140.1	131.5	149.9	168.3	180.6
60°	895.4	871.1	739.4	174.5	128.7	114.3	121.2	122.5	134.4	155.9	168.5
62.5°	615.1	597.3	501.1	105.9	101.5	91.7	102.6	112.3	121.2	139.4	150.3
65°	300.9	295.7	250.6	67.9	71.0	74.2	85.0	96.9	109.9	125.8	137.4
67.5°	82.9	83.5	76.0	53.0	56.0	64.7	73.3	82.7	95.8	110.5	122.2
70°	36.5	37.1	38.3	40.8	46.6	54.5	63.4	73.1	85.1	97.5	108.7
72.5°	25.4	26.0	27.8	31.1	36.2	43.7	52.1	61.4	73.9	84.2	93.6
75°	15.6	16.1	17.7	20.6	24.0	29.7	38.0	46.6	57.5	67.0	75.2
77.5°	8.3	8.0	9.0	11.0	14.0	17.0	22.5	27.9	35.7	43.4	50.3
80°	4.5	4.4	5.0	6.0	6.9	9.3	13.1	16.7	21.2	25.5	29.3
82.5°	2.0	1.8	2.0	2.6	3.2	4.5	6.6	9.2	11.7	14.7	17.1
85°	0.0	0.0	0.0	0.2	0.8	1.2	2.3	3.3	4.8	6.6	8.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9
2.5°	315.6	311.9	311.6	308.6	308.9	309.0	306.0	304.8	305.9	307.1	306.5
5°	301.8	297.9	296.3	293.4	293.1	291.8	290.6	289.1	290.1	291.2	291.8
7.5°	289.8	287.3	286.2	285.5	285.8	285.2	282.8	281.4	281.3	281.7	282.3
10°	285.9	283.8	285.2	287.3	288.8	289.8	287.3	285.0	282.9	282.0	282.0
12.5°	294.3	291.6	294.3	296.6	299.6	300.3	297.5	295.1	294.3	295.2	297.0
15°	312.9	306.6	306.5	307.8	310.2	311.4	308.7	307.5	307.5	313.2	317.7
17.5°	331.6	321.2	316.8	316.1	317.6	318.0	315.8	314.7	317.4	328.6	337.0
20°	344.6	332.0	322.5	320.7	321.2	321.3	319.5	318.8	322.7	336.2	343.3
22.5°	343.3	334.0	322.4	320.1	320.9	320.6	318.9	318.6	321.8	333.5	336.8
25°	334.0	326.8	317.0	315.5	316.7	316.5	314.9	314.1	315.5	323.3	323.6
27.5°	323.3	317.0	308.6	308.1	310.1	311.1	308.3	306.0	305.6	310.8	309.6
30°	310.5	305.9	299.1	299.4	303.0	303.6	300.2	296.9	296.0	298.8	297.2
32.5°	295.4	293.9	290.3	291.0	294.5	295.7	292.1	288.6	287.6	288.5	285.0
35°	282.5	281.9	282.2	283.5	286.5	287.4	284.4	281.7	280.2	277.0	272.5
37.5°	269.1	270.7	275.1	277.6	279.3	279.0	277.3	275.4	273.0	267.1	261.6
40°	256.6	260.8	268.6	271.5	272.1	272.2	271.0	269.4	266.4	258.6	252.3
42.5°	247.0	251.7	262.0	266.4	266.7	267.0	265.8	264.4	260.2	249.9	243.7
45°	237.0	243.1	255.3	260.5	260.2	260.1	259.0	258.4	253.5	241.5	234.7
47.5°	228.4	235.6	248.7	253.2	253.0	252.9	252.1	252.1	247.2	234.1	226.4
50°	220.0	228.2	241.9	245.7	246.0	245.7	245.4	245.8	240.0	226.0	218.5
52.5°	210.8	220.1	234.4	237.9	239.7	240.4	240.4	239.4	232.5	217.9	209.6
55°	200.8	209.6	226.1	230.8	232.3	233.7	233.7	231.5	225.1	210.4	201.5
57.5°	188.3	196.1	209.2	213.8	217.4	218.3	218.3	214.9	209.6	195.5	188.3
60°	174.8	181.5	190.4	195.4	198.1	196.3	197.6	196.7	192.5	179.4	173.4
62.5°	156.8	163.7	173.4	178.5	179.7	177.9	179.7	179.6	173.9	162.2	155.0
65°	143.9	150.6	160.2	166.8	168.8	168.3	169.5	167.7	160.7	149.6	142.7
67.5°	128.5	135.7	146.9	154.2	158.3	158.7	160.4	156.6	149.4	137.2	128.5
70°	114.0	120.1	128.7	135.6	141.3	144.2	144.5	139.0	130.0	120.0	113.7
72.5°	98.7	105.0	115.3	122.8	130.0	133.3	133.3	126.7	117.0	105.9	99.1
75°	80.0	85.9	95.4	103.5	111.7	115.9	115.8	110.1	99.3	88.7	81.7
77.5°	54.2	58.6	64.6	70.7	71.9	75.2	76.9	69.7	63.7	58.0	51.7
80°	31.5	34.2	37.5	41.0	41.7	42.8	40.1	37.4	34.2	30.5	27.6
82.5°	18.5	20.3	21.9	24.6	25.1	25.4	23.0	21.8	19.2	17.0	15.2
85°	9.0	9.6	11.1	12.5	11.9	11.6	10.5	9.3	8.3	7.4	6.5
87.5°	1.8	1.8	2.7	2.6	2.1	1.8	1.1	1.4	0.3	0.3	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°	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9
2.5°	308.4	311.0	314.1	318.3	323.1	328.3	333.2	337.0	340.7	346.3	345.4
5°	292.7	297.0	302.0	308.4	316.2	325.1	335.0	344.9	355.6	364.6	368.5
7.5°	283.5	288.3	294.2	302.6	312.6	323.4	337.4	353.5	370.7	382.6	390.0
10°	283.5	289.7	297.3	305.4	314.3	325.4	342.7	362.8	385.0	400.6	409.2
12.5°	299.9	306.0	307.7	307.4	312.3	324.6	346.9	372.6	399.1	415.6	426.2
15°	325.4	327.5	315.0	303.6	304.4	319.2	348.8	380.4	411.3	431.1	442.5
17.5°	342.5	337.0	314.7	294.8	290.6	310.1	348.8	387.9	424.2	446.6	457.2
20°	343.9	330.1	307.1	286.2	275.4	297.9	346.4	393.6	436.7	461.4	472.9
22.5°	332.0	318.3	299.0	278.9	262.9	283.2	342.5	397.9	447.3	475.4	489.5
25°	318.5	307.1	290.7	271.3	254.4	268.3	338.9	405.3	462.2	494.3	508.6
27.5°	305.3	295.7	280.8	265.0	249.6	255.4	336.7	416.1	479.9	521.2	533.5
30°	292.4	283.7	270.1	259.0	247.0	247.0	334.7	428.6	503.3	551.4	563.7
32.5°	279.3	271.0	260.1	253.2	245.5	243.7	329.3	440.3	527.5	584.4	597.0
35°	267.1	258.9	250.5	247.6	244.8	241.2	315.9	449.4	551.1	623.0	633.8
37.5°	255.7	247.8	241.5	240.7	241.0	234.3	294.9	457.1	580.5	662.5	668.2
40°	245.8	237.0	232.0	231.8	233.4	223.1	268.3	468.1	614.2	696.0	693.6
42.5°	237.0	227.6	221.6	223.0	222.1	212.0	242.4	478.1	643.4	727.4	722.6
45°	228.2	219.2	210.8	212.8	211.7	205.1	220.3	485.5	675.9	765.1	765.7
47.5°	219.8	211.0	202.6	200.2	200.0	203.0	203.3	487.9	728.7	825.7	812.1
50°	212.0	203.2	194.5	186.4	189.5	198.8	190.7	486.1	807.9	892.7	854.6
52.5°	203.9	195.5	185.9	171.3	179.6	188.8	179.4	479.6	856.2	951.9	929.1
55°	194.6	186.7	173.6	155.9	165.9	167.9	167.9	417.1	876.8	1010.4	1024.6
57.5°	182.1	171.6	150.9	136.6	145.7	138.1	155.6	291.9	842.9	992.0	1046.8
60°	168.0	156.8	134.8	124.6	127.3	114.1	132.6	183.0	698.6	844.1	939.0
62.5°	149.4	139.0	120.9	112.9	107.4	93.1	106.8	115.8	478.9	626.8	691.5
65°	136.9	125.5	109.3	98.8	87.4	74.9	70.9	76.0	257.5	350.8	394.5
67.5°	122.2	111.0	95.7	82.4	73.3	64.3	57.2	55.4	88.3	116.8	126.4
70°	108.3	97.5	84.7	72.4	63.2	54.4	47.5	42.5	40.8	40.5	39.9
72.5°	94.0	83.9	73.3	61.9	51.8	43.7	37.5	31.8	29.4	28.7	27.9
75°	77.0	69.1	58.4	46.1	38.0	30.5	25.7	21.9	19.8	19.1	18.2
77.5°	49.6	45.9	36.6	29.7	23.0	18.2	15.6	13.2	11.9	11.6	10.8
80°	26.4	24.6	20.3	17.1	13.7	11.1	9.8	8.4	7.7	7.4	7.1
82.5°	14.7	13.4	11.3	9.9	8.0	6.8	6.0	5.4	5.0	4.8	4.7
85°	6.6	5.7	4.5	4.2	3.8	3.5	3.3	3.0	2.9	2.7	2.6
87.5°	0.3	0.6	0.8	0.6	0.6	0.9	1.1	1.1	0.9	0.9	0.8
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°	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9	328.9
2.5°	350.9	355.4	355.9	357.4	355.4	355.0	351.8	350.0	348.4	347.9
5°	378.3	387.3	390.9	393.4	391.0	389.8	382.9	375.7	371.7	369.7
7.5°	406.3	419.9	426.9	430.1	430.4	425.0	413.1	399.6	392.8	390.3
10°	431.4	448.1	457.4	463.4	461.3	454.7	438.5	420.2	411.6	409.3
12.5°	450.0	466.0	473.2	477.1	476.9	473.3	458.0	438.2	428.4	426.2
15°	462.0	471.5	472.0	472.9	475.4	480.2	472.3	453.9	443.1	440.0
17.5°	471.5	467.8	460.7	458.3	464.0	477.4	482.2	467.3	455.6	452.9
20°	477.5	458.6	446.1	441.5	448.1	469.9	488.2	479.3	467.2	463.7
22.5°	482.2	450.0	429.9	426.8	433.7	461.7	494.3	493.6	480.2	475.4
25°	489.5	444.3	418.5	416.2	422.7	457.8	502.6	513.0	501.1	494.2
27.5°	501.1	443.7	412.6	411.9	420.8	461.3	514.5	541.3	526.5	521.4
30°	517.2	449.4	414.0	415.5	426.3	473.8	532.9	573.8	558.9	550.9
32.5°	540.3	464.8	434.6	441.0	449.0	493.7	560.0	608.9	597.6	585.9
35°	570.8	506.8	495.4	522.9	515.4	537.4	592.5	651.6	637.9	627.7
37.5°	611.5	593.0	603.5	641.3	623.2	620.0	632.3	690.3	682.8	672.6
40°	668.5	672.3	691.6	741.3	715.1	694.8	681.1	719.4	722.0	709.4
42.5°	706.4	723.6	770.3	826.8	790.6	742.1	722.0	756.7	756.8	745.4
45°	720.5	765.7	863.3	928.3	867.8	769.1	744.5	807.3	805.8	792.7
47.5°	715.4	801.1	959.8	1059.2	966.9	788.3	741.3	879.3	891.5	871.7
50°	704.7	836.7	1072.6	1219.6	1088.5	808.8	736.5	959.2	979.4	964.0
52.5°	715.5	876.3	1206.0	1385.4	1241.1	841.4	769.0	1061.8	1058.2	1039.7
55°	749.8	923.2	1368.0	1593.7	1408.7	896.5	852.3	1159.6	1122.9	1100.8
57.5°	748.1	956.7	1510.0	1758.4	1554.5	941.7	881.3	1169.9	1095.9	1068.0
60°	679.0	941.4	1564.1	1862.6	1598.5	916.7	785.9	1045.0	924.7	895.4
62.5°	506.8	835.4	1459.3	1732.1	1474.0	791.8	591.0	750.1	664.5	615.1
65°	324.2	653.5	1226.8	1403.3	1215.0	605.6	352.0	402.1	315.0	300.9
67.5°	138.0	461.3	953.7	937.9	908.9	392.4	135.9	113.2	84.4	82.9
70°	45.6	313.8	587.9	625.6	542.8	270.3	44.9	38.0	37.8	36.5
72.5°	29.9	168.5	331.0	368.5	349.3	155.6	27.2	25.4	26.0	25.4
75°	17.9	36.6	55.7	72.4	55.7	26.1	16.4	16.1	16.4	15.6
77.5°	10.5	10.2	9.9	9.9	9.8	9.0	8.3	8.0	8.1	8.3
80°	6.8	6.5	6.2	6.0	5.3	5.0	4.7	4.4	4.4	4.5
82.5°	4.4	4.1	3.8	3.3	2.7	2.3	2.1	1.8	1.8	2.0
85°	2.3	1.8	1.4	1.1	0.6	0.3	0.0	0.0	0.0	0.0
87.5°	0.5	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

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