

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: P628806

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628806
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2194.4 lumens
Efficiency: N/A
Efficacy: 111.4 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

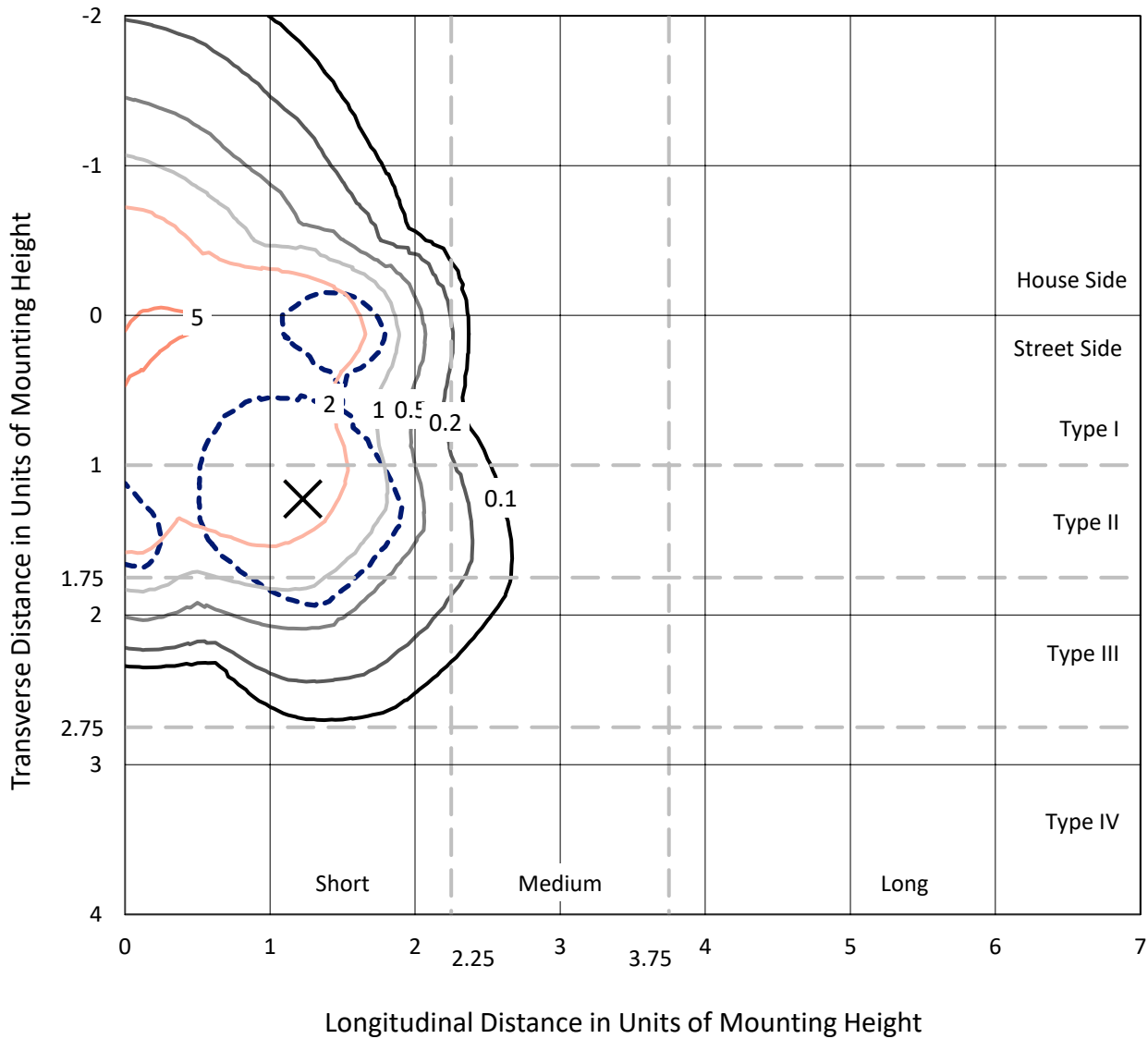
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

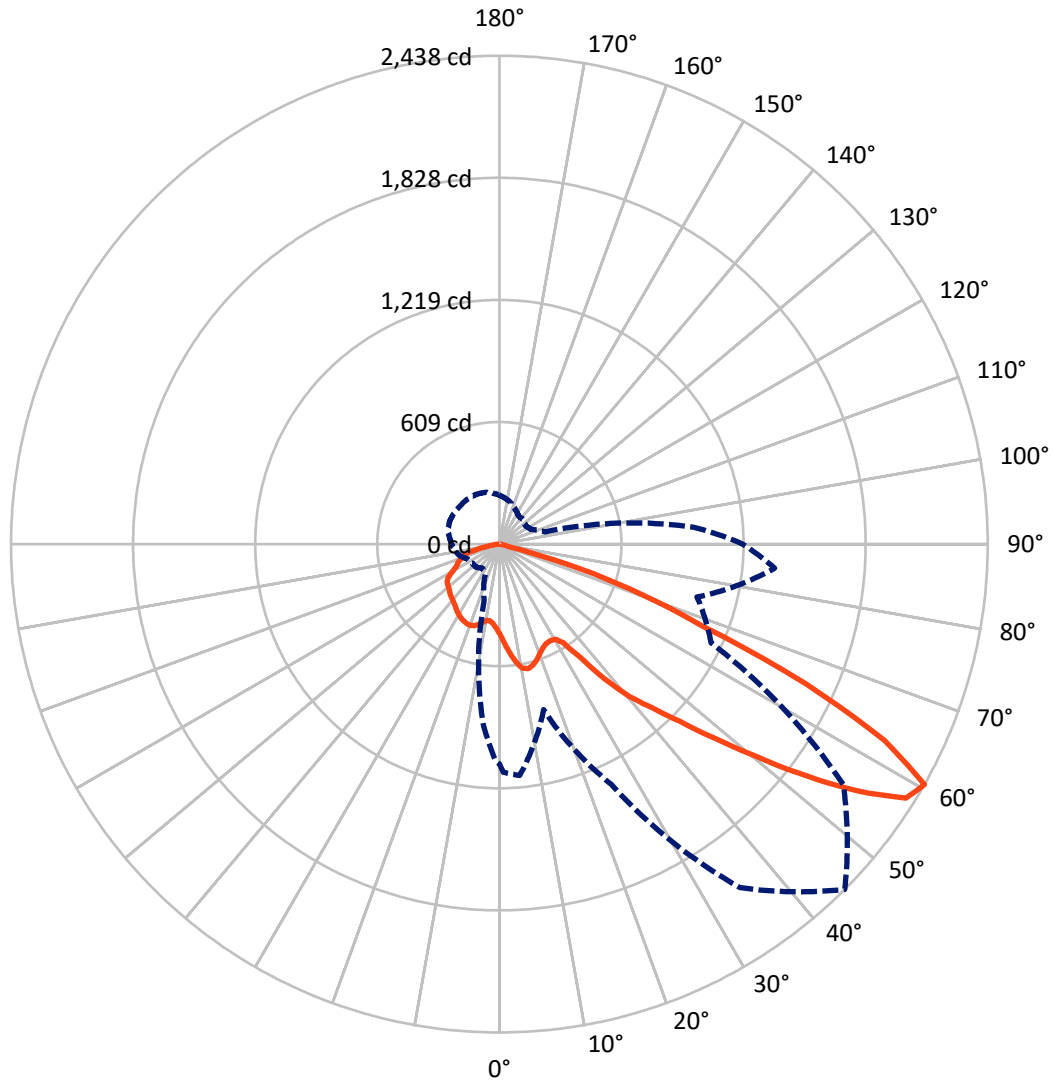
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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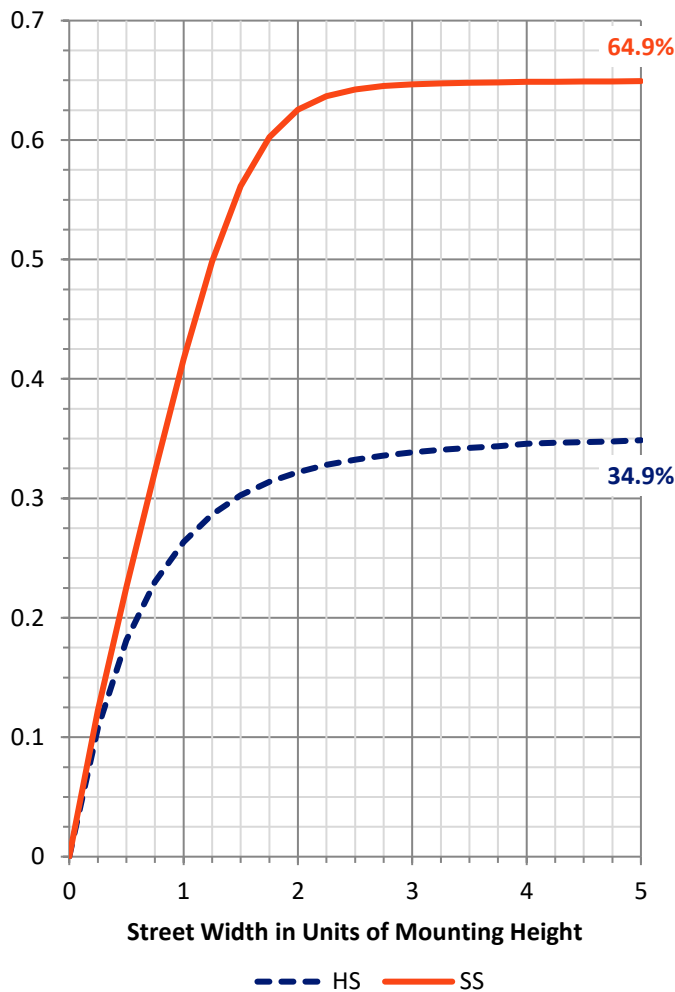
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.2	0.0	769.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	1425.2	0.0	1425.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	2194.4	0.0	2194.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	2.0
10°-20°	139.0	6.3
20°-30°	225.8	10.3
30°-40°	318.4	14.5
40°-50°	440.0	20.1
50°-60°	566.4	25.8
60°-70°	358.9	16.4
70°-80°	92.1	4.2
80°-90°	9.8	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°	2194.4	100.0
0°-180°	2194.4	100.0

Coefficient of Utilization



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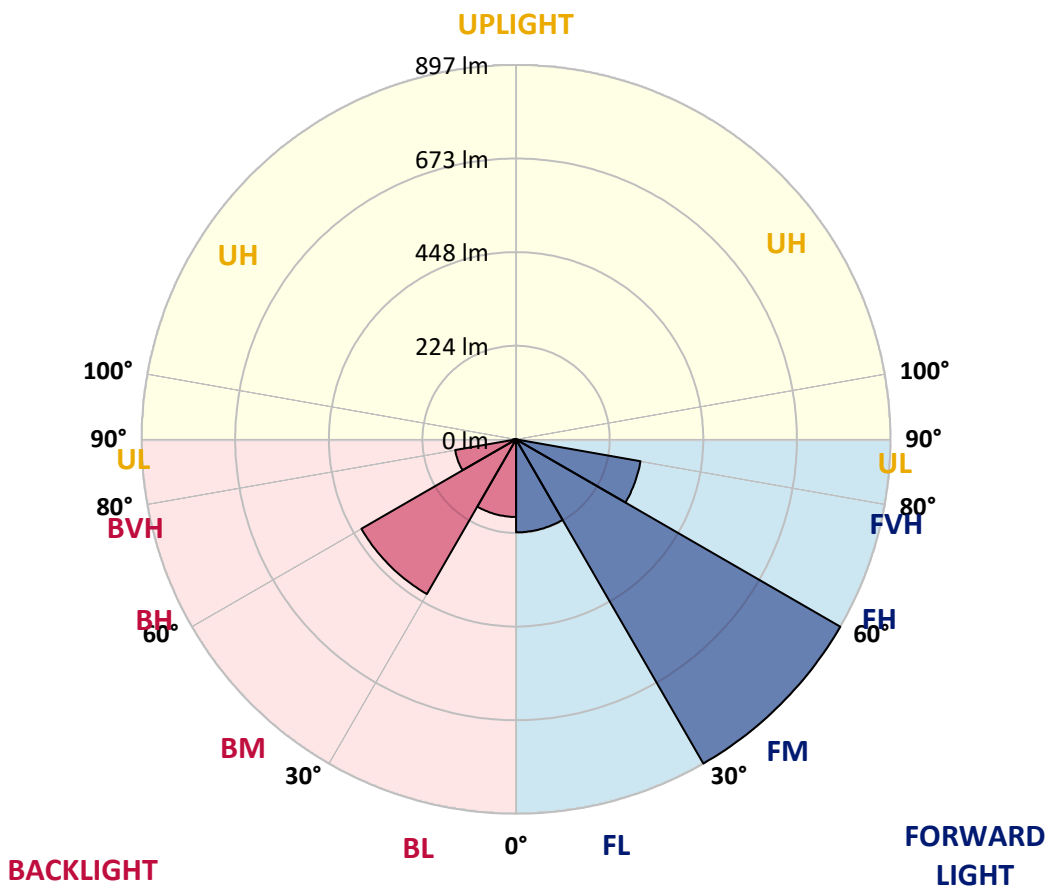
CATALOG NUMBER: GWS-SA1A-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.8	10.2			
FM (30°-60°)	896.9	40.9			
FH (60°-80°)	302.8	13.8			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	185.9	8.5	B1/500		
BM (30°-60°)	427.9	19.5	B1/1000		
BH (60°-80°)	148.2	6.8	B1/500		G1/500
BVH (80°-90°)	7.2	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°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	471.5	474.7	476.7	480.6	487.4	491.2	495.4	490.8	492.0	491.4	484.0
5°	499.5	503.3	508.5	519.8	532.4	539.5	546.1	545.1	538.9	528.4	521.0
7.5°	525.6	530.0	539.1	557.4	576.1	586.9	595.0	589.7	584.5	568.0	549.3
10°	546.1	548.7	561.0	585.5	607.2	619.5	629.3	628.1	620.9	602.4	577.3
12.5°	565.4	567.2	580.5	605.0	624.5	629.9	638.0	640.6	638.2	624.3	599.6
15°	586.1	589.5	601.8	620.5	629.3	623.7	626.5	633.8	640.6	640.6	617.9
17.5°	605.4	608.4	620.9	628.9	620.5	605.6	606.4	615.7	632.0	649.0	634.6
20°	622.5	625.3	637.6	629.9	603.2	581.5	580.9	592.1	618.5	654.5	652.5
22.5°	641.2	645.2	655.5	630.7	587.1	559.6	559.4	571.0	606.6	659.9	673.0
25°	667.7	674.0	679.2	637.8	578.5	545.3	547.9	559.0	602.8	668.8	703.3
27.5°	707.2	712.2	711.8	652.5	578.1	539.5	544.9	557.8	609.6	684.4	735.3
30°	749.8	752.4	748.2	673.0	587.3	543.1	551.1	566.4	626.9	710.4	782.4
32.5°	797.0	800.2	792.2	703.7	608.8	569.8	587.5	595.0	651.3	747.8	832.2
35°	851.3	857.6	840.9	744.4	672.2	667.3	693.1	683.4	702.9	792.0	885.5
37.5°	908.4	908.6	884.7	804.5	796.4	804.7	856.1	826.0	812.5	841.3	939.8
40°	956.9	955.7	918.9	885.5	904.6	937.4	999.5	953.3	917.9	907.4	984.8
42.5°	1005.3	1000.9	963.7	937.0	979.2	1046.6	1116.7	1060.0	985.4	967.5	1029.3
45°	1067.3	1065.9	1021.0	957.5	1046.6	1168.8	1261.9	1170.0	1025.4	1002.5	1103.3
47.5°	1167.2	1160.4	1076.9	955.9	1109.7	1331.7	1449.3	1308.5	1053.4	1003.3	1222.7
50°	1264.9	1256.5	1143.7	955.7	1174.8	1500.6	1670.5	1476.8	1081.9	1008.2	1344.1
52.5°	1363.6	1363.6	1253.3	978.4	1243.2	1689.2	1926.0	1686.6	1130.6	1071.3	1493.5
55°	1422.4	1438.0	1376.5	1016.8	1323.2	1911.1	2178.8	1913.0	1205.8	1185.3	1631.5
57.5°	1347.8	1377.1	1368.3	990.1	1370.5	2074.2	2393.1	2084.7	1243.0	1198.8	1610.8
60°	1098.2	1139.0	1159.4	854.9	1323.8	2093.1	2437.9	2095.9	1166.2	1020.8	1379.7
62.5°	730.1	763.7	794.6	610.8	1146.1	1883.0	2156.3	1883.6	974.0	761.8	955.9
65°	358.1	383.0	416.4	361.1	895.4	1573.4	1681.1	1522.1	704.5	426.5	487.6
67.5°	93.7	100.7	105.4	140.1	641.4	1130.4	1096.4	1113.3	452.6	139.3	127.5
70°	48.7	49.1	48.9	57.9	433.5	718.4	755.6	699.1	315.9	58.3	50.3
72.5°	34.8	35.0	34.4	39.0	209.3	411.6	426.5	421.8	165.5	34.6	34.4
75°	22.7	22.9	22.5	22.9	31.6	46.8	43.2	45.4	27.5	21.9	21.9
77.5°	13.5	13.7	13.5	13.9	13.5	13.5	12.5	12.5	11.9	11.9	12.1
80°	9.0	9.0	8.8	9.2	8.4	8.4	8.0	7.8	7.2	7.0	7.0
82.5°	5.4	5.6	5.4	5.4	5.0	5.0	4.6	4.4	3.8	3.8	3.6
85°	2.8	2.8	2.6	2.6	2.2	2.0	1.6	1.6	1.2	1.0	1.0
87.5°	0.4	0.4	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°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	482.0	477.9	471.9	466.1	460.6	455.0	448.6	441.9	436.3	430.5	427.5
5°	511.1	502.9	487.2	473.3	460.8	450.6	439.5	430.1	421.2	414.0	410.4
7.5°	537.5	524.6	500.9	478.9	462.1	448.0	432.7	418.6	406.8	397.9	394.5
10°	561.8	546.5	515.3	487.6	467.9	452.2	433.5	414.4	398.7	387.1	384.2
12.5°	581.5	564.0	526.8	494.6	471.3	454.4	437.9	421.4	406.0	390.9	388.5
15°	599.0	578.3	535.4	499.1	470.1	448.6	434.7	432.7	432.7	415.6	410.8
17.5°	614.1	591.3	542.5	501.1	462.5	431.3	422.8	440.3	460.0	447.8	436.9
20°	631.4	603.8	548.3	501.1	448.4	409.4	408.6	438.3	467.5	467.7	456.2
22.5°	648.8	618.3	555.1	499.3	429.1	384.0	398.9	430.3	456.2	467.3	459.4
25°	677.2	638.4	566.0	497.8	406.6	366.7	390.3	419.6	441.5	453.2	448.2
27.5°	713.2	664.9	582.5	500.1	384.2	356.5	381.0	405.8	425.7	435.9	432.3
30°	753.4	695.5	600.2	503.9	368.2	351.3	370.0	389.9	407.6	417.8	416.2
32.5°	804.7	728.7	615.5	498.6	359.1	348.7	358.3	372.6	389.7	396.1	397.5
35°	866.0	765.3	627.1	478.1	350.9	345.8	345.6	354.5	366.5	376.8	377.8
37.5°	922.5	808.1	640.0	443.0	336.0	338.8	330.8	336.0	347.8	358.1	362.1
40°	978.4	851.5	657.9	398.1	316.5	323.1	313.7	317.3	326.7	340.2	346.6
42.5°	1032.7	890.7	676.8	352.3	297.0	301.2	294.2	297.8	307.6	324.5	331.8
45°	1091.8	943.8	691.5	309.0	280.1	278.3	272.6	277.9	292.8	311.3	319.9
47.5°	1203.6	1027.5	701.1	280.3	271.0	258.0	251.5	262.8	279.7	298.4	308.8
50°	1340.1	1148.5	698.3	262.0	263.2	237.1	234.8	249.7	267.8	287.3	298.8
52.5°	1448.3	1267.3	666.3	244.5	247.9	223.8	217.4	239.1	256.4	276.3	288.1
55°	1530.9	1307.3	568.2	223.8	223.0	214.1	200.7	228.0	244.9	263.4	276.3
57.5°	1463.6	1218.3	421.2	195.2	190.4	195.0	182.0	209.3	230.8	249.1	260.6
60°	1214.7	971.4	234.6	172.9	159.2	170.5	168.5	189.6	215.5	234.8	244.7
62.5°	824.6	646.8	139.1	136.7	129.1	145.2	155.8	169.7	195.2	210.9	220.2
65°	411.0	314.3	92.5	102.3	103.3	119.4	139.5	154.8	176.1	192.2	201.5
67.5°	119.2	97.7	70.4	78.2	89.1	101.9	118.0	136.1	156.8	175.9	186.8
70°	51.5	52.1	55.9	65.1	75.8	89.1	105.2	122.9	140.3	155.0	163.3
72.5°	36.4	37.8	42.0	51.5	61.5	74.2	90.3	107.4	120.0	134.9	143.6
75°	23.3	24.3	27.7	35.0	42.4	54.7	70.0	85.7	98.7	109.4	117.6
77.5°	12.9	13.1	15.9	20.1	25.1	33.0	44.2	56.5	66.2	72.2	79.6
80°	7.4	7.4	8.8	11.5	14.5	19.3	25.5	31.6	37.4	41.2	44.8
82.5°	4.0	4.0	4.6	6.2	7.8	10.7	14.3	17.3	20.9	22.9	25.3
85°	1.2	1.2	1.6	2.2	2.8	4.0	5.6	7.2	8.8	10.3	11.7
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°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	426.9	424.1	422.4	420.4	421.0	419.2	418.2	418.8	415.2	418.8	422.4
5°	409.0	405.0	401.7	399.1	397.9	395.5	394.1	394.1	391.9	395.5	399.9
7.5°	393.3	390.1	388.5	386.9	385.0	382.8	380.4	379.6	378.2	382.0	385.8
10°	382.8	383.2	384.2	386.5	386.1	384.6	381.0	379.0	379.0	383.4	389.3
12.5°	387.7	391.9	394.3	398.3	399.1	397.9	394.3	392.7	396.7	403.3	413.0
15°	406.4	409.2	411.2	414.4	414.2	413.2	410.4	411.6	424.9	437.7	446.4
17.5°	426.7	423.4	423.0	425.1	425.7	424.5	422.8	428.3	450.2	462.3	466.7
20°	441.3	430.3	427.9	428.7	430.3	429.7	429.7	438.5	461.2	466.9	461.2
22.5°	445.8	430.1	426.5	426.7	428.9	429.1	430.1	439.3	452.6	452.8	444.2
25°	438.7	423.6	421.0	421.4	424.1	423.9	424.3	429.5	435.3	432.9	426.5
27.5°	425.5	412.4	411.6	413.8	417.2	415.4	414.2	415.6	418.4	415.4	409.8
30°	410.4	399.3	399.7	403.9	407.6	404.5	401.5	402.3	402.5	399.3	392.9
32.5°	394.5	386.3	387.7	392.1	396.3	393.1	389.9	389.5	385.6	381.8	375.6
35°	378.6	375.4	377.2	380.8	384.4	381.8	379.8	378.6	370.4	364.7	359.5
37.5°	364.1	366.5	369.8	372.0	373.2	373.0	371.8	369.0	358.1	351.5	344.6
40°	351.3	358.7	362.1	363.1	364.9	364.5	364.3	360.3	346.0	339.0	331.2
42.5°	339.6	350.1	355.9	356.9	357.9	358.1	357.5	351.7	335.4	327.1	319.7
45°	328.3	342.0	349.5	348.5	349.9	349.9	350.5	342.8	324.9	316.5	308.6
47.5°	318.5	334.6	341.4	340.2	341.0	341.6	342.2	333.4	313.5	305.4	297.4
50°	309.4	326.5	332.4	332.8	332.8	334.2	334.0	325.3	303.8	295.2	287.1
52.5°	299.8	318.3	324.5	327.1	327.9	328.5	325.7	315.7	294.0	283.5	276.1
55°	288.5	309.8	315.5	318.9	320.5	320.1	316.3	306.0	283.9	273.5	265.0
57.5°	271.4	291.7	299.8	301.4	304.0	302.4	298.0	289.3	267.8	257.4	248.7
60°	252.7	267.4	273.9	275.3	273.3	273.9	273.3	265.0	246.3	238.1	229.2
62.5°	228.2	241.3	248.1	249.9	246.5	248.7	247.9	237.7	219.0	210.3	202.5
65°	209.7	224.0	232.0	233.0	232.0	233.0	230.2	217.8	200.1	191.2	183.2
67.5°	195.2	209.9	218.4	221.2	220.2	220.0	215.5	201.1	182.8	173.1	162.9
70°	170.3	183.2	194.0	200.9	200.9	197.0	188.6	175.1	160.5	152.2	144.2
72.5°	150.8	167.1	177.7	184.8	186.2	184.0	172.1	157.8	140.9	132.7	124.3
75°	124.3	140.1	151.6	160.9	162.7	160.3	146.6	132.5	116.8	108.8	100.3
77.5°	83.0	92.5	101.7	110.2	108.4	110.0	100.7	90.1	80.4	74.4	70.6
80°	46.8	53.1	55.9	60.5	60.5	60.5	54.5	49.5	44.0	40.6	36.8
82.5°	26.5	30.6	31.8	35.6	36.6	36.8	32.8	29.6	26.1	24.3	21.7
85°	12.3	14.5	14.7	16.9	17.7	19.3	17.5	15.3	13.3	12.5	10.9
87.5°	0.4	1.2	1.6	3.0	4.0	4.6	5.0	5.0	4.2	3.8	3.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	426.9	431.7	437.3	441.3	448.6	454.6	460.8	467.7	472.7	471.5
5°	405.4	413.4	423.6	433.1	446.6	460.2	475.3	490.8	499.9	499.5
7.5°	393.3	404.7	417.2	429.9	445.8	465.5	488.6	512.7	525.0	525.6
10°	399.7	412.0	420.4	431.1	447.8	472.5	500.3	529.2	543.3	546.1
12.5°	420.0	419.0	418.4	426.1	446.2	477.5	511.5	546.1	562.0	565.4
15°	439.3	418.6	406.2	411.4	438.9	480.8	522.6	564.6	582.5	586.1
17.5°	443.0	411.6	388.5	392.1	427.5	481.8	533.2	582.7	602.0	605.4
20°	432.9	402.5	375.6	370.6	413.0	479.1	539.9	597.8	618.9	622.5
22.5°	420.2	394.5	365.9	352.9	395.3	476.5	547.3	613.7	638.0	641.2
25°	407.0	384.2	356.9	337.0	375.2	474.9	559.8	634.6	663.9	667.7
27.5°	392.9	371.8	349.1	329.3	356.7	476.9	577.5	668.3	701.7	707.2
30°	377.8	359.3	344.0	326.7	344.0	478.7	597.0	702.9	742.1	749.8
32.5°	362.1	347.8	338.8	327.9	336.2	474.5	614.1	741.7	790.4	797.0
35°	346.4	336.2	332.2	330.2	325.7	459.0	627.9	780.9	845.5	851.3
37.5°	331.8	324.1	322.9	325.1	309.6	433.7	644.0	830.8	899.6	908.4
40°	318.1	311.1	310.9	310.4	292.0	399.1	665.7	881.5	952.9	956.9
42.5°	305.4	296.6	298.2	293.4	277.5	361.7	686.2	924.7	1002.5	1005.3
45°	294.2	282.5	284.3	278.3	270.6	322.5	704.3	975.8	1065.5	1067.3
47.5°	283.3	270.8	265.8	265.4	269.4	286.3	722.0	1074.1	1164.0	1167.2
50°	273.3	259.8	245.5	254.4	262.0	259.2	744.2	1179.5	1265.7	1264.9
52.5°	263.6	245.9	225.6	242.7	242.7	239.1	737.9	1243.4	1349.8	1363.6
55°	252.5	223.6	204.9	223.2	214.3	221.0	627.5	1264.3	1402.6	1422.4
57.5°	230.6	196.0	179.8	189.6	176.3	204.9	450.8	1160.6	1312.8	1347.8
60°	209.5	175.7	165.1	163.3	146.0	167.1	292.2	908.6	1080.5	1098.2
62.5°	184.8	158.2	149.2	135.3	117.4	121.6	176.9	598.0	726.1	730.1
65°	166.1	143.4	126.1	109.6	96.1	88.3	104.6	288.3	362.9	358.1
67.5°	142.6	122.9	106.4	94.5	83.4	73.6	69.6	85.7	96.9	93.7
70°	126.9	108.0	92.1	80.8	70.6	60.7	53.7	50.5	49.5	48.7
72.5°	109.4	92.9	76.4	65.5	55.9	46.8	40.4	36.6	35.6	34.8
75°	87.3	71.8	56.7	46.4	38.0	31.6	27.3	24.1	23.5	22.7
77.5°	57.7	46.0	33.8	27.5	22.5	19.1	16.3	14.3	13.9	13.5
80°	31.8	26.5	20.7	16.7	13.5	11.7	10.7	9.5	9.2	9.0
82.5°	18.9	15.9	11.9	9.5	7.8	7.0	6.4	5.8	5.6	5.4
85°	9.5	7.4	5.2	4.4	4.0	3.6	3.6	3.0	2.8	2.8
87.5°	2.4	2.0	1.2	1.0	1.0	1.0	0.8	0.6	0.6	0.4
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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