

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: P628857

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628857
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213.5 lumens
Efficiency: N/A
Efficacy: 112.4 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

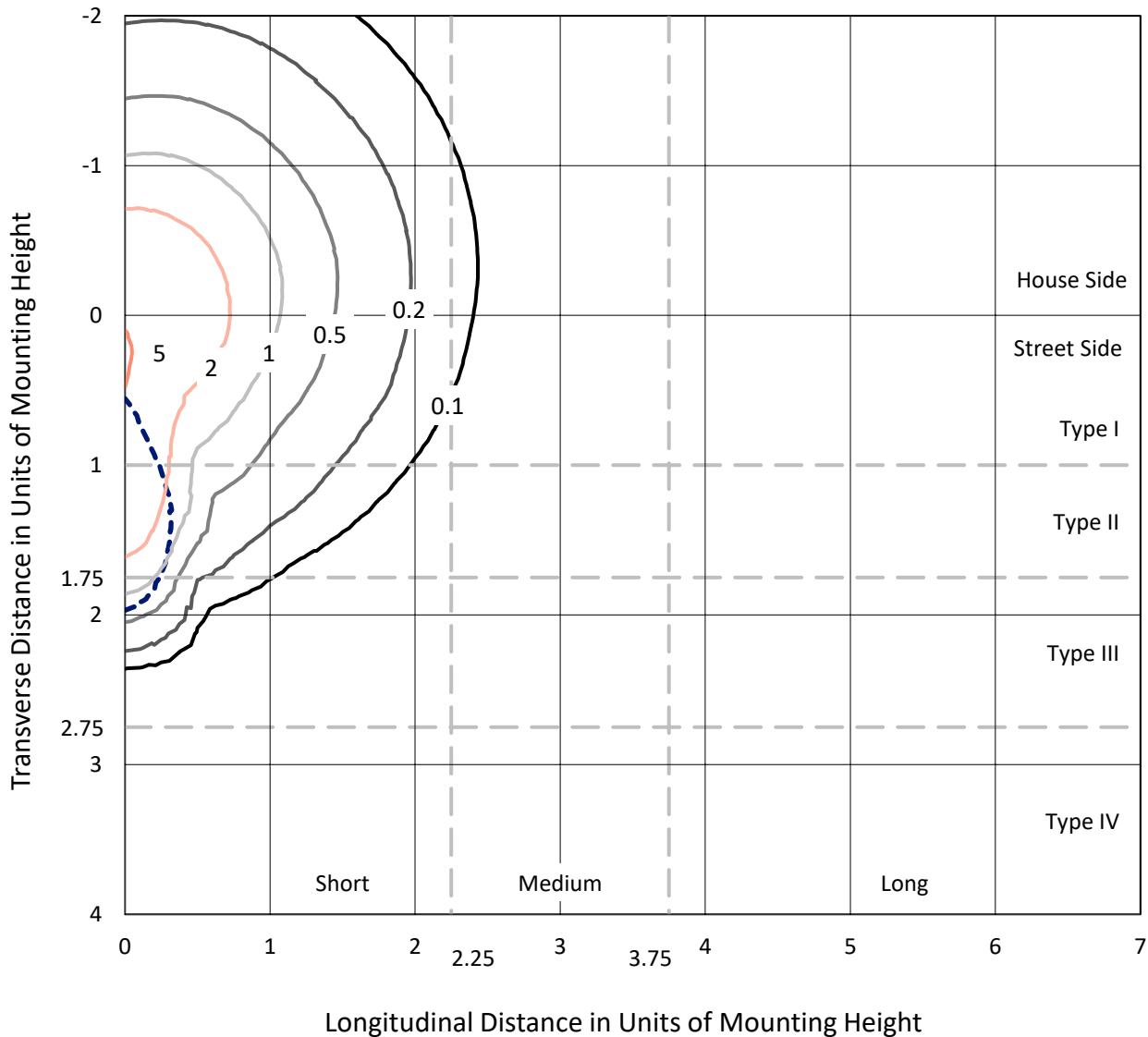
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

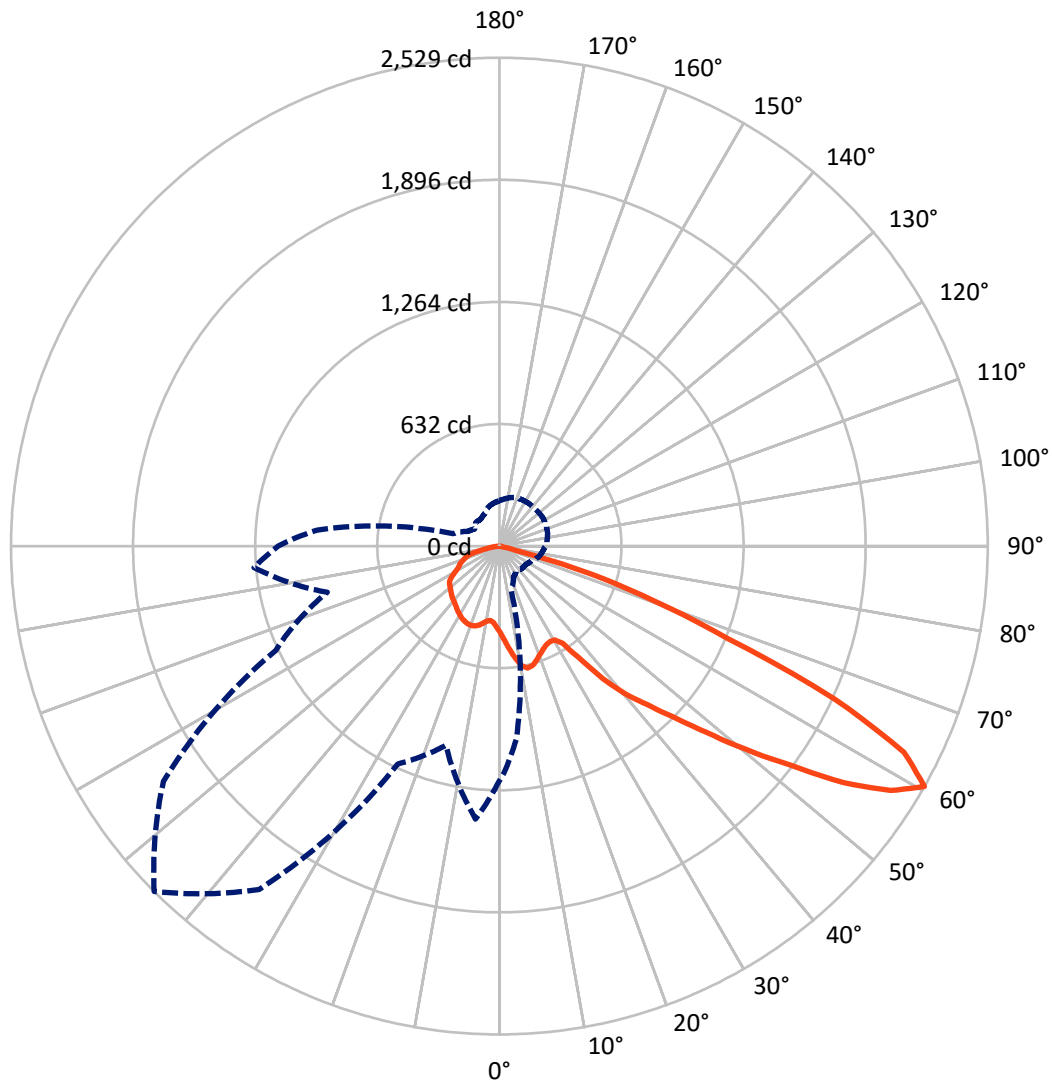
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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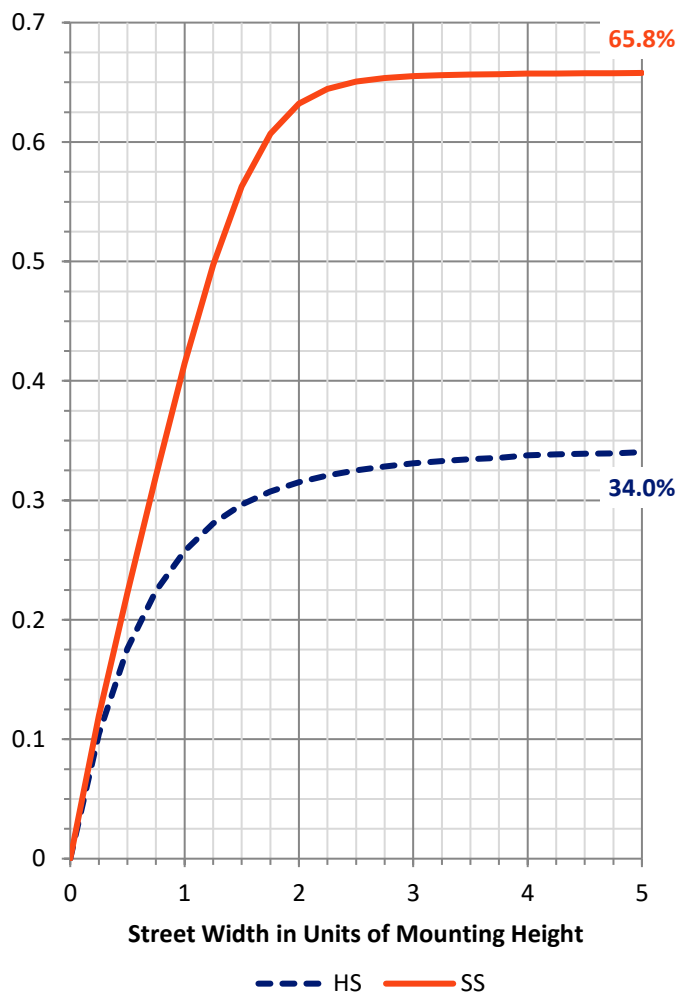
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.2	0.0	757.2
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	1456.3	0.0	1456.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	2213.5	0.0	2213.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	2.0
10°-20°	139.9	6.3
20°-30°	227.8	10.3
30°-40°	320.1	14.5
40°-50°	438.0	19.8
50°-60°	561.9	25.4
60°-70°	378.4	17.1
70°-80°	94.6	4.3
80°-90°	9.2	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°	2213.5	100.0
0°-180°	2213.5	100.0

Coefficient of Utilization



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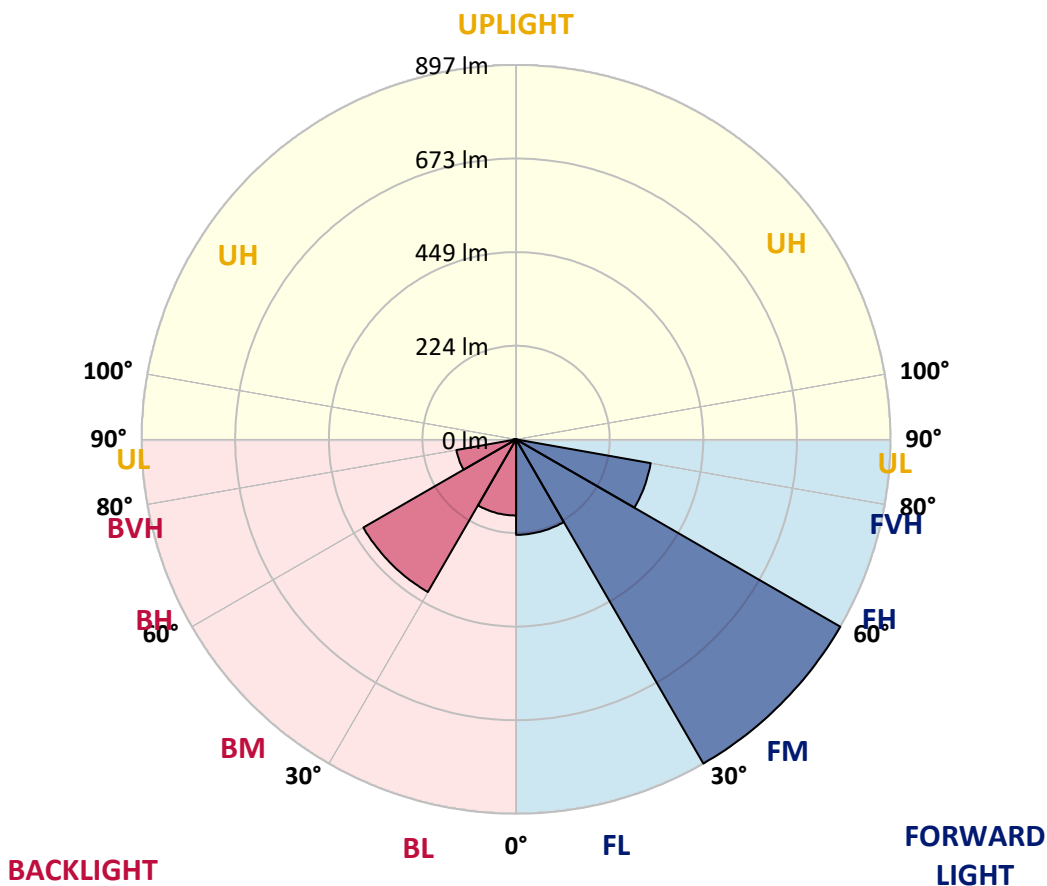
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.8	10.3			
FM (30°-60°)	897.4	40.5			
FH (60°-80°)	327.7	14.8			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	182.5	8.2	B1/500		
BM (30°-60°)	422.6	19.1	B1/1000		
BH (60°-80°)	145.3	6.6	B1/500		G1/500
BVH (80°-90°)	6.8	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°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
2.5°	472.3	471.3	470.3	462.3	460.3	454.6	450.5	445.4	438.1	434.0	430.5
5°	501.9	500.3	494.8	478.4	467.8	456.2	446.6	436.0	424.8	417.5	411.8
7.5°	529.8	529.4	520.0	493.1	476.0	459.3	446.2	430.7	414.6	403.6	396.3
10°	555.7	552.6	541.4	506.4	483.9	464.8	450.7	433.6	414.8	400.0	390.2
12.5°	578.5	574.7	559.2	518.6	490.9	467.2	451.9	437.9	425.4	413.0	401.8
15°	597.3	592.6	576.9	530.0	497.0	465.8	444.4	433.4	437.7	443.2	430.7
17.5°	614.8	609.9	590.8	538.4	498.8	457.0	425.9	421.2	442.8	467.8	462.1
20°	629.5	624.0	601.8	542.5	495.6	440.3	401.8	409.9	438.5	468.5	477.6
22.5°	645.4	640.9	614.2	548.4	491.5	417.3	381.6	401.6	431.2	457.4	471.3
25°	670.9	665.4	633.6	558.8	489.5	395.7	367.1	393.4	421.0	444.8	455.6
27.5°	707.8	697.6	660.1	576.9	491.7	375.3	358.0	383.4	409.1	429.5	438.3
30°	747.9	735.7	689.4	595.7	495.0	362.9	353.1	372.0	391.0	411.4	421.0
32.5°	795.4	784.6	720.8	609.7	488.0	357.2	349.4	359.6	374.7	391.0	398.9
35°	852.1	832.7	755.1	621.1	465.6	348.8	346.1	345.9	353.9	369.8	378.8
37.5°	913.1	892.3	797.3	633.4	430.7	335.5	338.4	329.8	337.2	349.8	360.0
40°	963.0	941.2	839.9	650.1	387.1	314.7	321.3	312.1	316.6	329.6	341.0
42.5°	1011.9	988.7	879.6	669.0	344.9	294.4	297.6	294.2	295.6	309.2	325.1
45°	1076.1	1050.0	928.6	682.5	307.0	278.3	275.2	269.3	276.8	294.6	311.5
47.5°	1183.4	1152.2	1008.7	691.3	279.5	269.1	255.0	251.6	260.9	280.7	298.2
50°	1308.7	1281.8	1136.7	690.9	258.9	261.3	235.5	232.4	247.9	267.9	286.4
52.5°	1411.5	1384.2	1246.2	670.5	242.0	244.8	224.0	215.5	236.7	255.2	273.8
55°	1494.5	1463.7	1296.5	585.3	220.6	218.5	211.6	195.9	222.6	242.6	259.9
57.5°	1449.8	1413.1	1235.6	445.0	198.6	185.7	190.2	178.6	203.4	228.5	245.2
60°	1215.6	1182.6	1003.8	236.9	174.7	155.1	164.5	166.3	182.4	211.6	228.7
62.5°	835.0	810.9	680.3	143.7	137.8	124.6	139.2	152.5	164.5	189.2	204.1
65°	408.5	401.4	340.2	92.1	96.4	100.7	115.4	131.5	149.2	170.8	186.5
67.5°	112.5	113.3	103.1	72.0	76.0	87.9	99.5	112.3	130.1	150.0	165.9
70°	49.5	50.4	52.0	55.4	63.2	74.0	86.0	99.3	115.6	132.3	147.6
72.5°	34.5	35.3	37.7	42.2	49.1	59.3	70.7	83.4	100.3	114.4	127.0
75°	21.2	21.8	24.1	27.9	32.6	40.4	51.6	63.2	78.1	90.9	102.1
77.5°	11.2	10.8	12.2	14.9	19.0	23.0	30.6	37.9	48.5	58.9	68.3
80°	6.1	5.9	6.7	8.2	9.4	12.6	17.7	22.6	28.7	34.7	39.8
82.5°	2.7	2.4	2.7	3.5	4.3	6.1	9.0	12.4	15.9	20.0	23.2
85°	0.0	0.0	0.0	0.2	1.0	1.6	3.1	4.5	6.5	9.0	11.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
2.5°	428.5	423.4	423.0	418.9	419.3	419.5	415.5	413.8	415.2	416.9	416.1
5°	409.7	404.4	402.2	398.3	397.9	396.1	394.5	392.4	393.8	395.3	396.1
7.5°	393.4	390.0	388.5	387.5	387.9	387.1	383.9	382.0	381.8	382.4	383.2
10°	388.1	385.3	387.1	390.0	392.0	393.4	390.0	386.9	384.1	382.8	382.8
12.5°	399.6	395.9	399.6	402.6	406.7	407.7	403.8	400.6	399.6	400.8	403.2
15°	424.8	416.3	416.1	417.9	421.2	422.8	419.1	417.5	417.5	425.2	431.4
17.5°	450.1	436.0	430.1	429.1	431.2	431.8	428.7	427.3	430.9	446.0	457.4
20°	467.8	450.7	437.9	435.4	436.0	436.2	433.8	432.8	438.1	456.4	466.0
22.5°	466.0	453.4	437.7	434.6	435.6	435.2	433.0	432.6	436.9	452.8	457.2
25°	453.4	443.6	430.3	428.3	429.9	429.7	427.5	426.5	428.3	438.9	439.3
27.5°	438.9	430.3	418.9	418.3	421.0	422.4	418.5	415.5	414.8	422.0	420.3
30°	421.6	415.2	406.1	406.5	411.4	412.2	407.5	403.0	401.8	405.7	403.4
32.5°	401.0	398.9	394.0	395.1	399.8	401.4	396.5	391.8	390.4	391.6	386.9
35°	383.4	382.6	383.0	384.9	389.0	390.2	386.1	382.4	380.4	376.1	370.0
37.5°	365.3	367.5	373.5	376.9	379.2	378.8	376.5	373.9	370.6	362.7	355.1
40°	348.4	354.1	364.7	368.6	369.4	369.6	368.0	365.7	361.6	351.0	342.5
42.5°	335.3	341.7	355.7	361.6	362.0	362.5	360.8	359.0	353.3	339.2	330.9
45°	321.7	330.0	346.6	353.7	353.3	353.1	351.6	350.8	344.1	327.8	318.6
47.5°	310.1	319.8	337.6	343.7	343.5	343.3	342.3	342.3	335.5	317.8	307.4
50°	298.6	309.9	328.4	333.5	333.9	333.5	333.1	333.7	325.8	306.8	296.6
52.5°	286.2	298.8	318.2	322.9	325.4	326.4	326.4	324.9	315.6	295.8	284.6
55°	272.6	284.6	307.0	313.3	315.4	317.2	317.2	314.3	305.6	285.6	273.6
57.5°	255.6	266.2	284.0	290.3	295.2	296.4	296.4	291.7	284.6	265.4	255.6
60°	237.3	246.5	258.5	265.2	268.9	266.4	268.3	267.0	261.3	243.6	235.5
62.5°	212.8	222.2	235.5	242.4	244.0	241.6	244.0	243.8	236.1	220.2	210.4
65°	195.3	204.5	217.5	226.5	229.1	228.5	230.2	227.7	218.1	203.0	193.7
67.5°	174.5	184.3	199.4	209.4	214.9	215.5	217.7	212.6	202.8	186.3	174.5
70°	154.7	163.1	174.7	184.1	191.8	195.7	196.1	188.8	176.5	162.9	154.3
72.5°	133.9	142.5	156.6	166.8	176.5	181.0	181.0	172.1	158.8	143.7	134.5
75°	108.7	116.6	129.4	140.5	151.7	157.4	157.2	149.4	134.7	120.5	110.9
77.5°	73.6	79.5	87.7	96.0	97.6	102.1	104.4	94.6	86.4	78.7	70.1
80°	42.8	46.5	51.0	55.7	56.7	58.1	54.4	50.8	46.5	41.4	37.5
82.5°	25.1	27.5	29.8	33.4	34.0	34.5	31.2	29.6	26.1	23.0	20.6
85°	12.2	13.0	15.1	16.9	16.1	15.7	14.3	12.6	11.2	10.0	8.8
87.5°	2.4	2.4	3.7	3.5	2.9	2.4	1.4	1.8	0.4	0.4	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°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
2.5°	418.7	422.2	426.5	432.2	438.7	445.6	452.4	457.4	462.5	470.1	468.9
5°	397.3	403.2	409.9	418.7	429.3	441.3	454.8	468.3	482.7	495.0	500.3
7.5°	384.9	391.4	399.3	410.8	424.4	439.1	458.1	479.9	503.3	519.4	529.4
10°	384.9	393.2	403.6	414.6	426.7	441.8	465.2	492.5	522.7	543.9	555.5
12.5°	407.1	415.5	417.7	417.3	424.0	440.7	470.9	505.8	541.8	564.3	578.5
15°	441.8	444.6	427.7	412.2	413.2	433.4	473.6	516.4	558.4	585.3	600.8
17.5°	465.0	457.4	427.3	400.2	394.5	421.0	473.6	526.6	575.9	606.3	620.7
20°	466.8	448.1	416.9	388.5	373.9	404.4	470.3	534.3	592.8	626.4	641.9
22.5°	450.7	432.2	405.9	378.6	356.9	384.5	465.0	540.2	607.3	645.4	664.6
25°	432.4	416.9	394.7	368.4	345.3	364.3	460.1	550.2	627.5	671.1	690.5
27.5°	414.4	401.4	381.2	359.8	338.8	346.8	457.0	564.9	651.5	707.6	724.3
30°	396.9	385.1	366.7	351.6	335.3	335.3	454.4	581.8	683.3	748.6	765.3
32.5°	379.2	368.0	353.1	343.7	333.3	330.9	447.1	597.7	716.1	793.4	810.5
35°	362.7	351.4	340.0	336.2	332.3	327.4	428.9	610.1	748.1	845.8	860.5
37.5°	347.2	336.4	327.8	326.8	327.2	318.0	400.4	620.5	788.1	899.4	907.1
40°	333.7	321.7	315.0	314.7	316.8	302.9	364.3	635.4	833.8	944.9	941.6
42.5°	321.7	309.0	300.9	302.7	301.5	287.8	329.0	649.1	873.5	987.5	980.9
45°	309.9	297.6	286.2	288.9	287.4	278.5	299.1	659.1	917.5	1038.6	1039.4
47.5°	298.4	286.4	275.0	271.7	271.5	275.6	276.0	662.3	989.3	1121.0	1102.4
50°	287.8	275.8	264.0	253.0	257.3	269.9	258.9	659.9	1096.7	1211.9	1160.1
52.5°	276.8	265.4	252.4	232.6	243.8	256.2	243.6	651.1	1162.4	1292.2	1261.2
55°	264.2	253.4	235.7	211.6	225.3	227.9	227.9	566.3	1190.3	1371.7	1390.9
57.5°	247.3	233.0	204.9	185.5	197.7	187.5	211.2	396.3	1144.2	1346.7	1421.1
60°	228.1	212.8	183.1	169.2	172.9	154.9	180.0	248.5	948.3	1145.9	1274.7
62.5°	202.8	188.8	164.1	153.3	145.8	126.4	144.9	157.2	650.1	850.9	938.7
65°	185.9	170.4	148.4	134.1	118.6	101.7	96.2	103.1	349.6	476.2	535.5
67.5°	165.9	150.6	129.9	111.9	99.5	87.2	77.7	75.2	119.9	158.6	171.6
70°	147.0	132.3	115.0	98.3	85.8	73.8	64.4	57.7	55.4	55.0	54.2
72.5°	127.6	114.0	99.5	84.0	70.3	59.3	51.0	43.2	40.0	38.9	37.9
75°	104.6	93.8	79.3	62.6	51.6	41.4	34.9	29.8	26.9	25.9	24.7
77.5°	67.3	62.4	49.7	40.4	31.2	24.7	21.2	17.9	16.1	15.7	14.7
80°	35.9	33.4	27.5	23.2	18.6	15.1	13.3	11.4	10.4	10.0	9.6
82.5°	20.0	18.1	15.3	13.5	10.8	9.2	8.2	7.3	6.7	6.5	6.3
85°	9.0	7.7	6.1	5.7	5.1	4.7	4.5	4.1	3.9	3.7	3.5
87.5°	0.4	0.8	1.0	0.8	0.8	1.2	1.4	1.4	1.2	1.2	1.0
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°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
2.5°	476.4	482.5	483.1	485.2	482.5	481.9	477.6	475.2	472.9	472.3
5°	513.5	525.7	530.6	534.1	530.8	529.2	519.8	510.0	504.5	501.9
7.5°	551.6	570.0	579.6	583.8	584.2	576.9	560.8	542.5	533.3	529.8
10°	585.7	608.3	620.9	629.1	626.2	617.3	595.3	570.4	558.8	555.7
12.5°	610.9	632.6	642.3	647.6	647.4	642.5	621.8	594.8	581.6	578.5
15°	627.3	640.1	640.7	641.9	645.4	651.9	641.1	616.2	601.6	597.3
17.5°	640.1	635.0	625.4	622.2	629.9	648.1	654.6	634.4	618.5	614.8
20°	648.3	622.6	605.6	599.3	608.3	637.9	662.7	650.7	634.2	629.5
22.5°	654.6	610.9	583.6	579.4	588.7	626.8	671.1	670.1	651.9	645.4
25°	664.6	603.2	568.1	565.1	573.8	621.5	682.3	696.4	680.3	670.9
27.5°	680.3	602.4	560.2	559.2	571.2	626.2	698.4	734.9	714.7	707.8
30°	702.1	610.1	562.0	564.1	578.7	643.2	723.5	778.9	758.7	747.9
32.5°	733.5	630.9	590.0	598.7	609.5	670.3	760.2	826.6	811.3	795.4
35°	774.8	688.0	672.5	709.8	699.6	729.6	804.4	884.5	866.0	852.1
37.5°	830.1	805.0	819.3	870.7	846.0	841.7	858.4	937.1	926.9	913.1
40°	907.6	912.7	938.9	1006.4	970.8	943.2	924.7	976.7	980.1	963.0
42.5°	958.9	982.4	1045.8	1122.4	1073.3	1007.4	980.1	1027.2	1027.4	1011.9
45°	978.1	1039.4	1172.0	1260.2	1178.1	1044.1	1010.7	1095.9	1093.9	1076.1
47.5°	971.2	1087.6	1303.0	1438.0	1312.6	1070.2	1006.4	1193.8	1210.3	1183.4
50°	956.7	1135.9	1456.1	1655.7	1477.7	1098.0	999.9	1302.2	1329.5	1308.7
52.5°	971.4	1189.7	1637.1	1880.8	1684.9	1142.2	1043.9	1441.4	1436.6	1411.5
55°	1017.8	1253.3	1857.1	2163.5	1912.4	1217.0	1157.1	1574.2	1524.4	1494.5
57.5°	1015.6	1298.8	2050.0	2387.1	2110.3	1278.4	1196.4	1588.2	1487.7	1449.8
60°	921.8	1278.0	2123.3	2528.6	2170.0	1244.5	1067.0	1418.6	1255.3	1215.6
62.5°	688.0	1134.0	1981.0	2351.5	2001.0	1074.9	802.4	1018.2	902.1	835.0
65°	440.1	887.2	1665.5	1905.0	1649.4	822.1	477.8	545.9	427.7	408.5
67.5°	187.3	626.2	1294.7	1273.3	1233.9	532.7	184.5	153.7	114.6	112.5
70°	62.0	426.1	798.1	849.3	736.9	366.9	61.0	51.6	51.4	49.5
72.5°	40.6	228.7	449.3	500.3	474.2	211.2	36.9	34.5	35.3	34.5
75°	24.3	49.7	75.6	98.3	75.6	35.5	22.2	21.8	22.2	21.2
77.5°	14.3	13.9	13.5	13.5	13.3	12.2	11.2	10.8	11.0	11.2
80°	9.2	8.8	8.4	8.2	7.1	6.7	6.3	5.9	5.9	6.1
82.5°	5.9	5.5	5.1	4.5	3.7	3.1	2.9	2.4	2.4	2.7
85°	3.1	2.4	1.8	1.4	0.8	0.4	0.0	0.0	0.0	0.0
87.5°	0.6	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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