

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: P628801

Luminaire Tested: GWS-SA1A-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1504 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

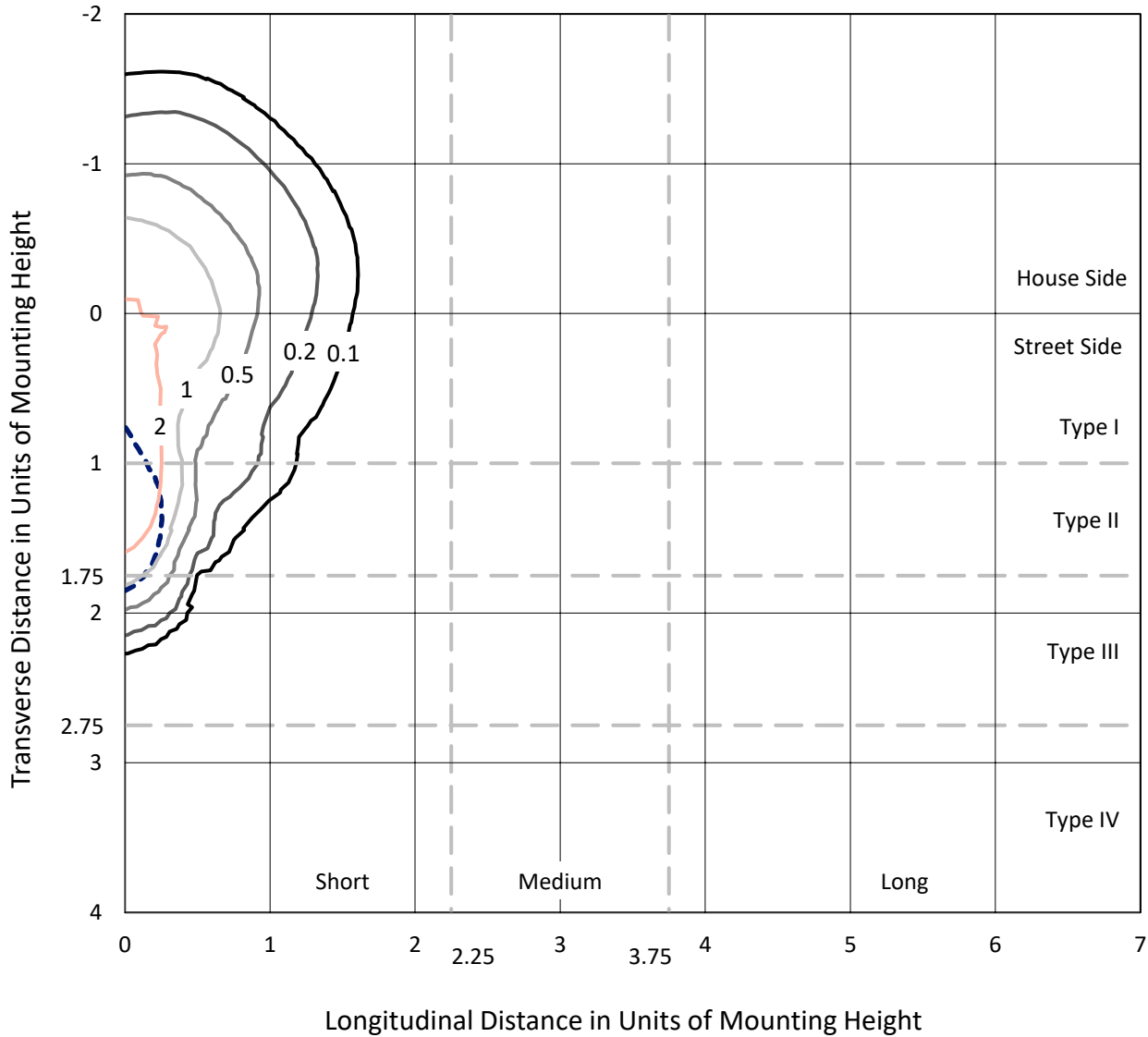
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

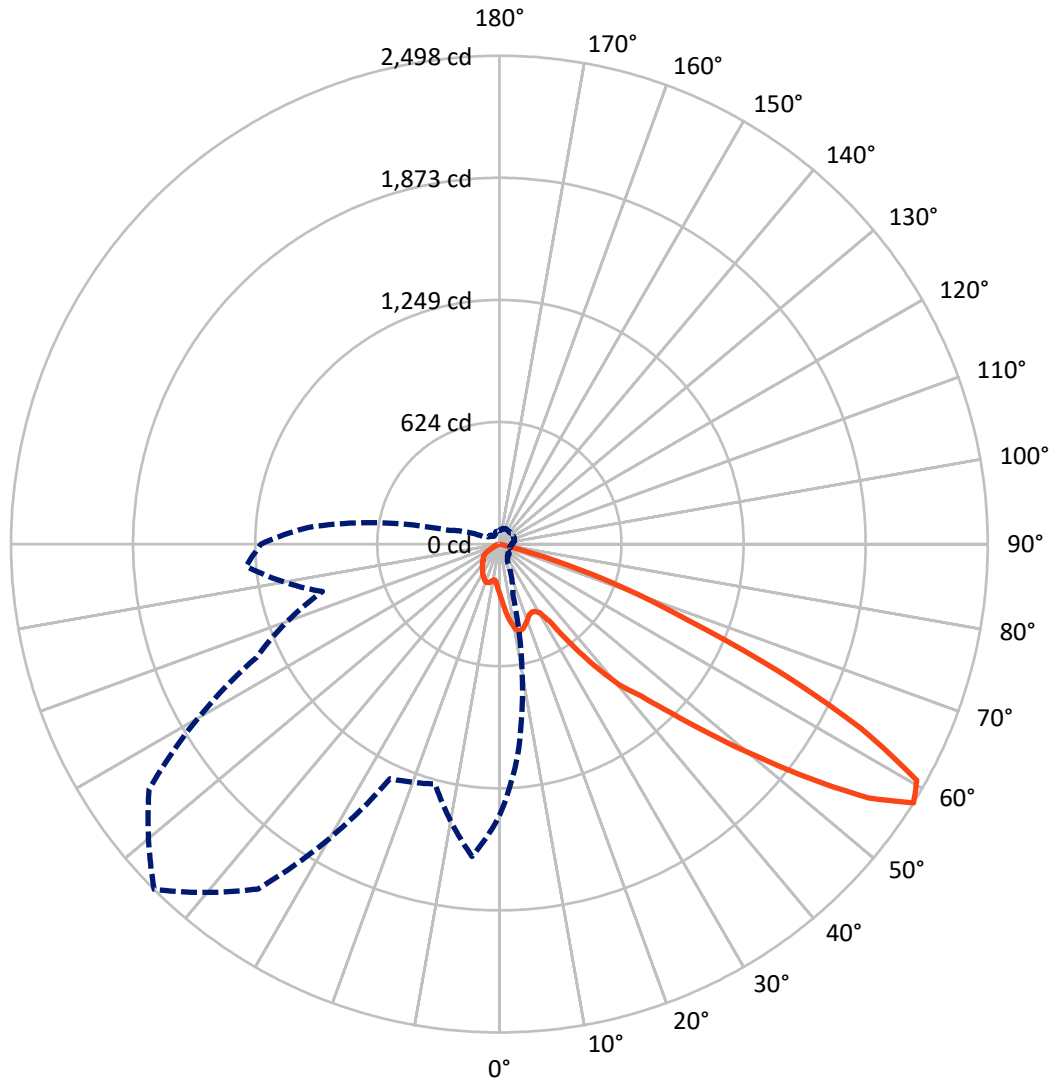
× Max cd
 - - - 1/2 Max cd



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 57.5-Deg Vertical

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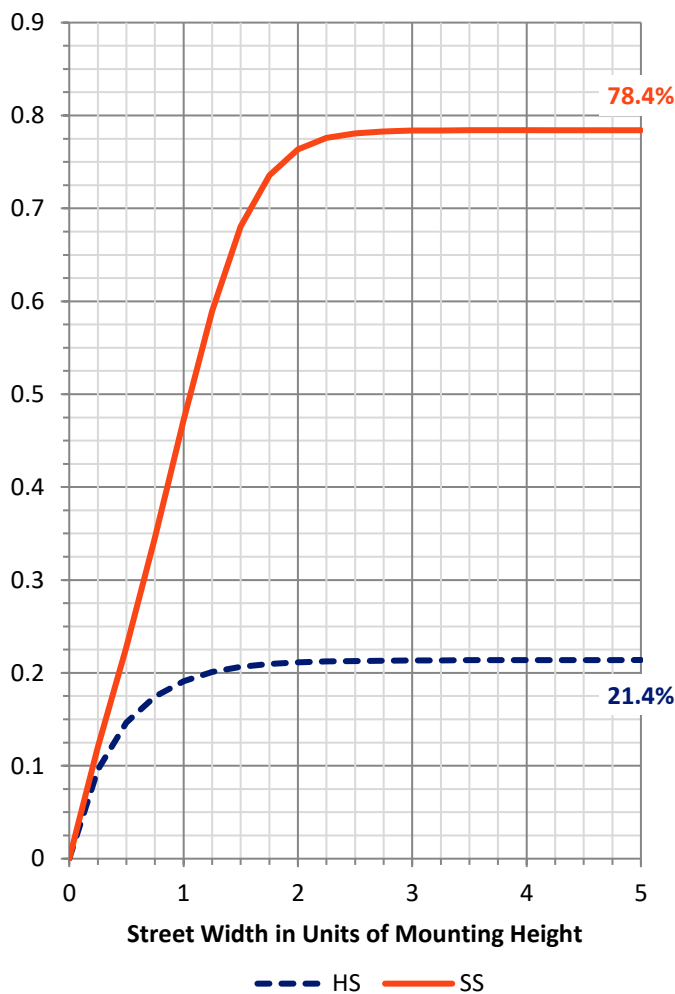
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	324.0	0.0	324.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	1180.0	0.0	1180.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	1504.0	0.0	1504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	1.7
10°-20°	83.1	5.5
20°-30°	134.9	9.0
30°-40°	207.0	13.8
40°-50°	330.6	22.0
50°-60°	462.9	30.8
60°-70°	237.3	15.8
70°-80°	22.8	1.5
80°-90°	0.0	0.0
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°	1504.0	100.0
0°-180°	1504.0	100.0

Coefficient of Utilization



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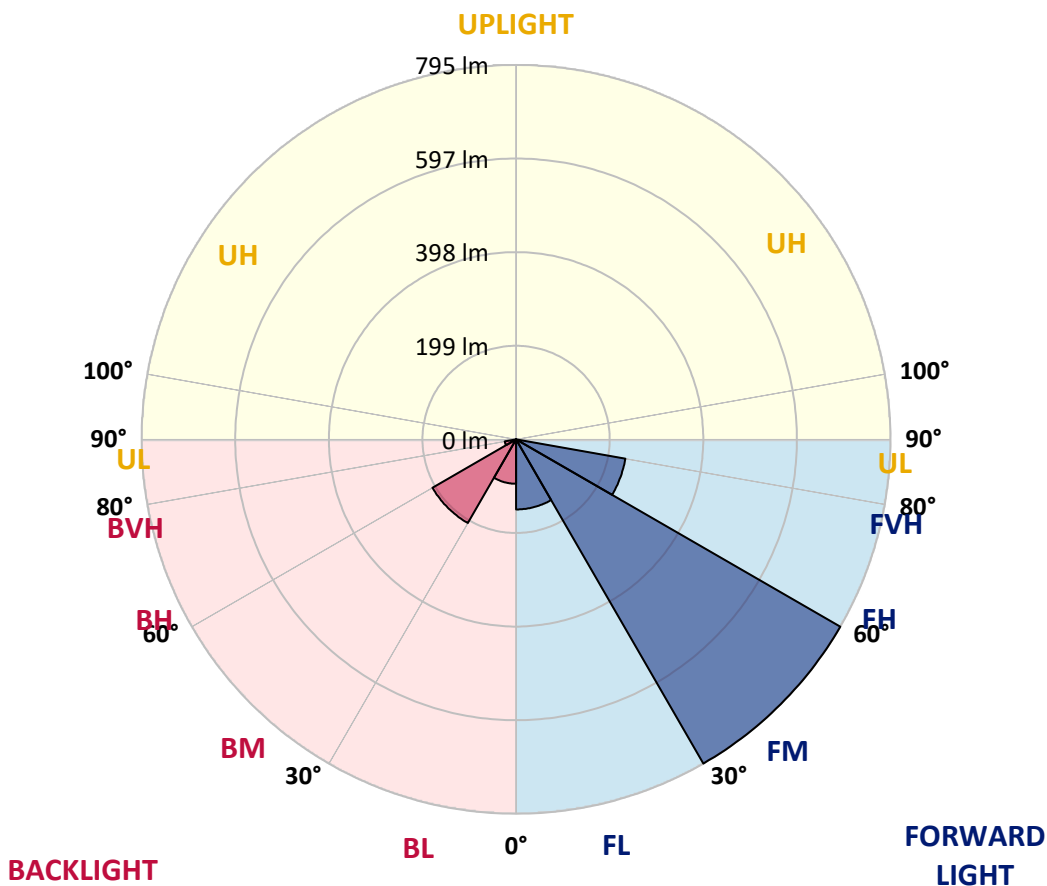
CATALOG NUMBER: GWS-SA1A-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.9	9.9			
FM (30°-60°)	795.4	52.9			
FH (60°-80°)	235.7	15.7			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	94.3	6.3	B0/110		
BM (30°-60°)	205.2	13.6	B0/220		
BH (60°-80°)	24.5	1.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
2.5°	283.9	283.3	281.3	274.5	270.2	263.6	258.8	252.5	245.7	241.5	237.3
5°	314.1	312.5	307.0	291.3	279.3	266.2	255.8	244.3	232.0	224.0	216.5
7.5°	343.0	340.6	333.4	306.8	288.5	269.8	254.9	238.3	221.0	208.9	199.7
10°	371.4	365.9	354.5	321.9	297.2	274.7	257.2	238.1	217.8	202.5	192.2
12.5°	394.7	390.7	375.0	336.2	304.4	275.7	254.1	236.5	222.8	212.5	203.1
15°	414.8	410.4	395.5	349.0	310.6	271.6	241.5	226.0	228.2	232.2	224.2
17.5°	433.3	428.7	412.6	359.7	313.1	261.8	223.8	216.3	228.6	243.7	240.7
20°	452.4	447.2	427.5	368.3	312.3	246.3	205.9	208.1	225.4	242.7	244.3
22.5°	474.7	469.3	446.4	379.4	311.6	227.8	190.4	200.9	219.4	234.0	236.9
25°	504.3	497.8	472.7	395.7	313.3	210.9	179.3	193.8	209.1	222.4	224.0
27.5°	543.3	535.0	503.1	415.8	316.7	197.6	174.5	184.2	196.0	207.9	209.3
30°	594.1	583.7	537.8	433.3	315.1	188.4	171.3	174.5	181.6	191.2	191.4
32.5°	653.7	639.4	576.9	448.4	301.2	181.6	166.9	164.7	166.3	173.7	175.1
35°	723.6	705.1	619.9	462.6	275.9	168.3	158.8	151.4	150.8	154.4	157.8
37.5°	803.9	781.7	674.2	480.9	245.9	154.4	147.0	139.5	136.3	138.1	143.4
40°	877.8	853.3	730.9	503.1	215.3	142.0	133.1	125.5	121.6	122.2	128.7
42.5°	964.7	939.4	800.2	532.0	190.0	133.5	118.6	110.8	105.8	108.6	116.0
45°	1096.6	1067.8	901.4	557.1	169.9	131.5	106.0	94.9	92.5	97.3	106.2
47.5°	1276.8	1241.6	1040.3	572.4	152.8	133.3	97.1	82.0	82.6	88.1	96.9
50°	1455.5	1417.5	1201.0	552.3	138.7	129.7	92.7	72.0	75.8	80.6	88.7
52.5°	1578.3	1528.9	1279.2	494.2	125.9	116.0	92.3	62.5	69.8	71.4	78.2
55°	1583.2	1522.3	1239.2	389.7	108.4	97.9	88.1	54.7	63.1	63.7	69.6
57.5°	1387.7	1332.6	1082.9	267.6	96.3	71.8	70.2	47.9	51.9	56.9	60.5
60°	1055.8	1008.9	809.9	122.6	73.2	45.6	48.1	41.2	38.8	46.2	49.9
62.5°	646.6	616.7	485.8	54.3	46.6	24.3	29.2	32.8	29.2	32.0	35.0
65°	256.8	243.5	184.4	23.1	19.1	12.3	13.3	19.1	20.5	22.5	25.3
67.5°	44.6	42.2	31.0	10.3	7.8	7.4	6.4	8.8	12.5	13.9	16.1
70°	5.8	5.6	5.0	4.2	4.0	3.6	2.8	5.6	8.4	8.8	10.3
72.5°	1.4	1.2	1.2	1.0	1.2	0.4	0.4	3.0	6.0	6.2	7.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.8	4.2	5.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
2.5°	233.8	229.8	228.4	226.4	223.8	224.6	221.0	219.8	221.6	224.0	223.4
5°	212.5	208.1	205.1	200.5	199.7	197.8	196.6	195.0	197.0	199.9	200.5
7.5°	195.6	191.8	188.8	187.4	186.4	185.6	183.2	182.0	182.0	183.2	184.2
10°	188.4	185.6	185.0	185.4	187.0	186.8	184.6	183.0	181.0	180.0	181.2
12.5°	198.4	193.8	193.0	193.2	195.2	195.0	192.6	190.6	190.2	190.6	194.4
15°	215.5	208.5	203.3	202.3	203.3	202.9	201.1	199.9	200.5	206.3	212.7
17.5°	230.8	220.0	210.5	206.9	206.7	206.1	204.3	203.9	206.9	217.8	227.2
20°	235.2	224.6	211.1	206.5	205.5	204.9	202.9	203.5	207.3	220.4	228.4
22.5°	229.4	219.2	205.1	200.5	199.7	199.5	197.4	198.2	201.5	212.9	219.6
25°	218.4	209.7	195.0	191.0	191.0	190.6	188.8	189.2	191.2	201.3	207.7
27.5°	204.9	196.6	184.4	180.4	181.0	181.6	179.3	178.7	180.4	189.8	193.6
30°	189.4	183.6	173.9	170.3	170.1	172.5	169.5	168.7	170.9	178.3	179.1
32.5°	174.3	171.5	164.7	161.9	162.1	162.5	160.9	160.9	162.9	166.9	166.7
35°	159.6	157.8	156.6	154.6	154.4	153.6	153.6	154.0	156.2	157.6	155.0
37.5°	145.6	147.4	148.8	146.8	145.2	145.2	145.2	147.0	149.0	148.4	144.0
40°	133.1	136.9	141.3	139.1	135.3	135.1	135.9	138.9	142.0	138.3	134.3
42.5°	122.4	127.3	133.5	132.3	128.1	127.5	128.1	131.9	134.3	129.7	125.3
45°	112.0	118.0	125.5	125.5	120.8	120.2	120.4	125.5	126.9	121.4	115.8
47.5°	103.1	109.8	117.6	117.6	113.8	112.6	113.6	118.8	119.8	112.2	107.0
50°	94.7	101.9	110.6	110.0	107.4	106.4	108.2	113.8	112.6	104.2	98.7
52.5°	84.0	91.7	103.5	104.2	102.7	102.9	105.2	108.8	105.4	95.1	90.5
55°	74.4	82.2	94.1	97.3	97.3	97.1	98.1	100.9	98.1	85.9	80.2
57.5°	63.9	70.6	80.4	81.2	81.8	79.6	81.0	84.8	83.4	73.0	69.8
60°	52.5	58.1	63.7	64.3	61.7	57.1	59.7	64.1	65.1	57.3	53.7
62.5°	37.2	42.6	49.3	49.3	46.6	42.0	45.4	49.3	47.9	39.8	37.6
65°	27.7	32.8	37.8	40.0	37.8	34.6	37.2	40.0	37.8	31.2	27.9
67.5°	17.9	21.3	24.3	26.1	26.5	26.1	27.3	26.5	23.9	19.5	17.7
70°	10.9	12.7	14.3	15.9	17.1	17.7	18.3	16.5	13.9	11.5	10.9
72.5°	7.8	9.4	10.9	12.1	13.5	13.9	13.9	12.7	10.3	8.0	7.4
75°	5.4	6.8	8.0	8.8	10.1	10.5	10.5	9.4	7.6	5.8	5.2
77.5°	0.2	1.4	1.4	1.2	1.6	2.0	2.0	2.4	2.2	1.6	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
2.5°	224.6	231.8	233.8	241.3	247.9	254.5	262.6	267.4	274.7	279.7	282.5
5°	202.5	208.5	215.7	226.8	238.3	250.9	266.2	279.5	296.2	308.4	312.5
7.5°	186.4	194.2	202.7	216.5	232.2	249.1	270.6	292.3	317.9	334.6	345.2
10°	183.4	191.4	202.7	216.3	232.8	252.1	278.5	306.6	338.6	358.9	371.0
12.5°	197.8	206.5	211.3	217.6	230.0	251.5	285.3	321.1	358.7	380.8	393.7
15°	219.2	226.8	219.0	211.1	219.2	245.1	289.1	333.2	376.4	401.9	415.2
17.5°	233.8	234.4	217.3	200.7	202.9	233.4	290.5	345.2	395.3	422.0	435.9
20°	232.4	227.6	210.3	191.8	185.0	218.4	288.9	355.9	414.4	442.3	456.0
22.5°	221.6	215.9	201.3	183.2	169.9	200.5	286.1	365.5	431.9	463.7	476.5
25°	208.5	202.5	190.4	174.5	160.2	183.2	283.9	378.8	454.0	491.4	501.5
27.5°	193.2	188.0	177.7	166.3	156.2	170.1	283.3	396.3	480.7	525.2	532.2
30°	178.3	173.5	165.5	158.8	154.6	162.5	281.3	415.0	512.7	564.0	571.6
32.5°	164.1	159.2	154.2	153.2	153.4	159.6	274.5	433.5	550.7	620.3	625.9
35°	151.8	146.2	144.2	146.6	151.0	154.8	255.1	448.8	591.5	681.6	686.2
37.5°	140.1	134.5	134.3	140.1	145.0	147.4	232.4	463.9	646.6	743.9	749.8
40°	129.5	123.9	125.9	132.9	136.7	137.9	204.9	486.8	704.9	809.7	806.5
42.5°	120.4	114.6	115.8	124.9	128.3	131.5	179.5	505.9	761.0	872.0	871.0
45°	111.6	107.2	106.4	116.2	119.2	132.1	161.1	520.6	833.2	951.4	953.0
47.5°	102.9	99.5	99.7	103.9	111.4	135.1	145.4	530.2	938.0	1077.3	1049.4
50°	95.1	92.5	94.7	89.9	106.4	131.3	131.9	528.2	1055.0	1197.9	1141.8
52.5°	86.5	85.9	86.9	75.2	98.3	115.8	119.2	501.5	1109.9	1280.4	1248.4
55°	77.6	77.4	69.4	60.1	82.2	92.5	102.1	418.4	1108.1	1324.2	1363.0
57.5°	67.2	65.5	52.7	49.1	63.9	64.3	93.1	274.0	982.0	1219.2	1299.7
60°	50.9	49.7	38.6	39.8	44.6	41.2	74.2	136.5	733.9	949.8	1040.5
62.5°	35.2	33.6	28.8	30.8	28.8	23.5	45.4	67.6	444.6	599.8	682.0
65°	25.7	23.9	19.7	16.9	13.5	13.5	17.3	25.9	172.1	254.9	307.4
67.5°	15.9	15.1	11.7	8.4	8.2	8.8	9.0	12.9	27.7	44.2	54.1
70°	10.3	9.4	7.8	5.4	5.0	5.2	5.4	6.0	7.0	7.6	9.2
72.5°	7.0	6.6	5.6	3.0	2.4	2.6	2.8	2.8	3.4	3.2	3.8
75°	5.0	4.6	4.0	1.4	0.8	1.0	1.2	1.0	1.2	0.8	1.0
77.5°	1.4	1.4	1.0	0.2	0.0	0.2	0.4	0.4	0.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
2.5°	289.7	294.4	296.2	293.6	295.8	292.1	290.7	285.3	284.9	283.9
5°	328.7	339.2	345.4	349.2	344.8	340.0	332.8	320.3	316.5	314.1
7.5°	367.1	383.4	394.1	399.1	397.9	388.1	375.0	354.1	346.6	343.0
10°	400.5	420.4	433.3	439.5	436.9	428.3	409.6	383.4	373.6	371.4
12.5°	423.8	442.1	451.0	456.4	456.6	453.2	435.5	409.2	397.5	394.7
15°	438.5	446.4	446.6	449.8	455.4	463.0	454.8	431.5	419.0	414.8
17.5°	447.8	439.1	430.3	431.1	440.3	460.6	469.1	451.2	437.9	433.3
20°	454.4	427.1	410.6	410.8	420.2	451.0	478.9	470.3	456.6	452.4
22.5°	458.6	416.4	392.9	392.3	402.3	439.5	488.0	493.0	479.5	474.7
25°	467.3	411.4	382.2	385.6	394.5	435.9	500.2	523.2	510.7	504.3
27.5°	482.8	416.4	381.2	389.1	399.1	446.6	521.6	563.4	550.5	543.3
30°	509.5	435.3	396.7	407.6	419.6	474.5	557.3	619.5	601.0	594.1
32.5°	552.5	474.5	444.6	467.9	479.5	520.4	611.0	682.4	667.3	653.7
35°	611.8	564.0	560.6	614.9	612.0	607.2	677.0	759.6	736.9	723.6
37.5°	693.5	707.9	733.3	787.2	785.4	748.6	763.6	832.6	820.9	803.9
40°	795.4	826.2	869.2	946.4	922.3	876.0	870.0	907.4	898.0	877.8
42.5°	855.5	908.6	990.6	1060.0	1040.7	959.9	953.0	1007.3	986.6	964.7
45°	883.5	975.8	1136.6	1230.5	1172.0	1015.6	1013.0	1137.6	1126.0	1096.6
47.5°	896.3	1043.5	1307.5	1449.7	1340.3	1064.4	1055.0	1326.6	1311.3	1276.8
50°	910.6	1137.0	1513.4	1703.6	1543.6	1119.7	1126.6	1502.7	1496.3	1455.5
52.5°	942.0	1235.9	1766.9	1993.9	1790.1	1206.4	1249.4	1668.8	1625.4	1578.3
55°	989.0	1343.7	2030.7	2290.5	2041.6	1322.8	1382.3	1757.1	1635.3	1583.2
57.5°	937.0	1370.7	2187.0	2497.6	2153.2	1323.2	1269.9	1604.1	1438.2	1387.7
60°	743.5	1275.1	2126.9	2452.8	2058.1	1175.0	972.3	1252.4	1089.6	1055.8
62.5°	502.7	1069.5	1872.3	2074.4	1761.5	924.3	631.9	814.5	674.6	646.6
65°	275.5	797.8	1512.8	1569.3	1378.7	645.6	325.1	353.5	269.2	256.8
67.5°	76.0	555.3	1113.1	1041.1	967.3	420.4	84.0	63.1	45.0	44.6
70°	19.1	367.3	666.9	687.4	593.1	269.2	16.1	7.6	6.0	5.8
72.5°	8.0	158.0	316.5	363.7	303.6	124.7	5.8	2.2	1.8	1.4
75°	1.0	12.7	26.9	40.8	27.9	13.5	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
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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