

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: P628861

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628861
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.9 lumens
Efficiency: N/A
Efficacy: 112.9 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

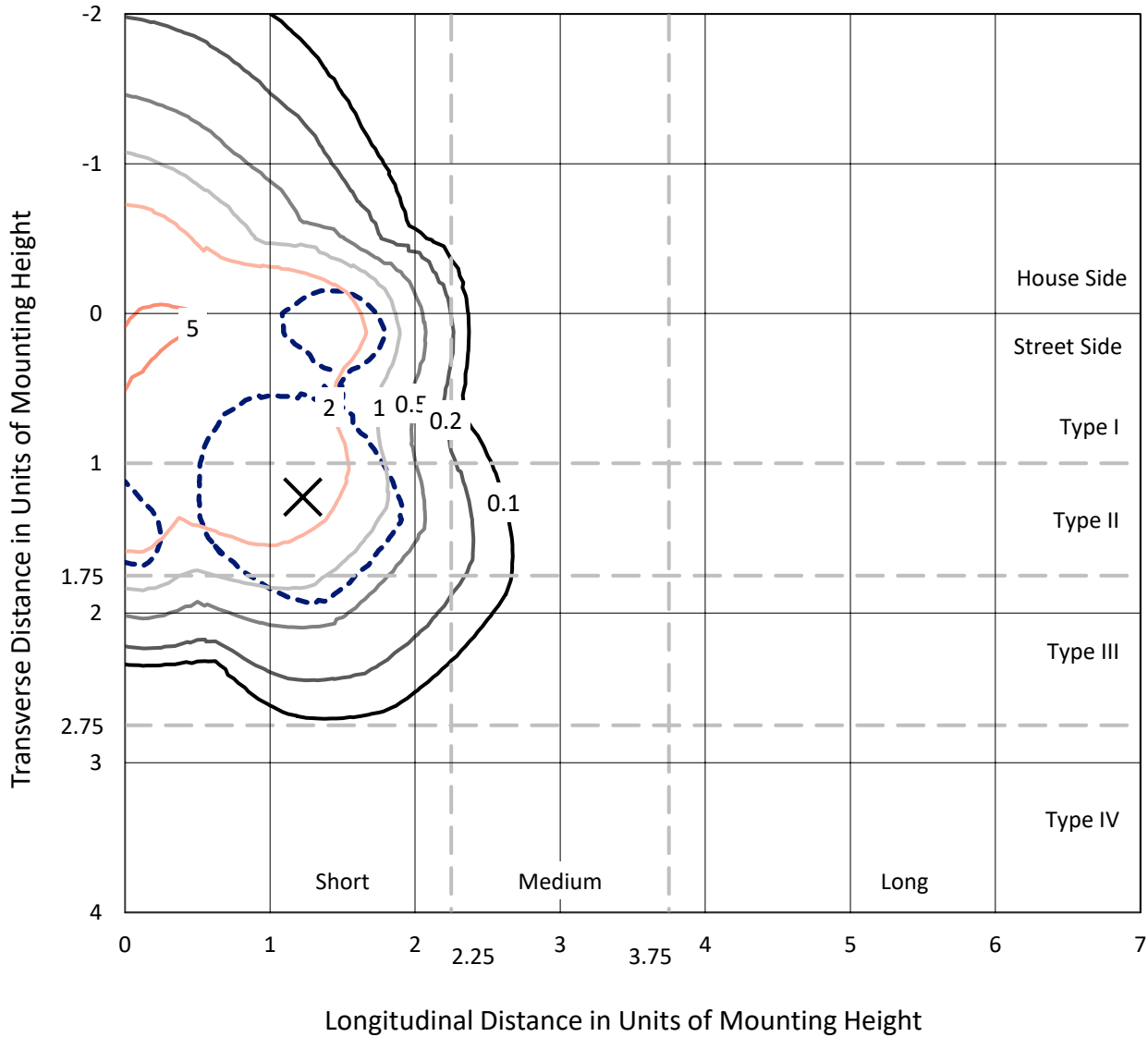
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

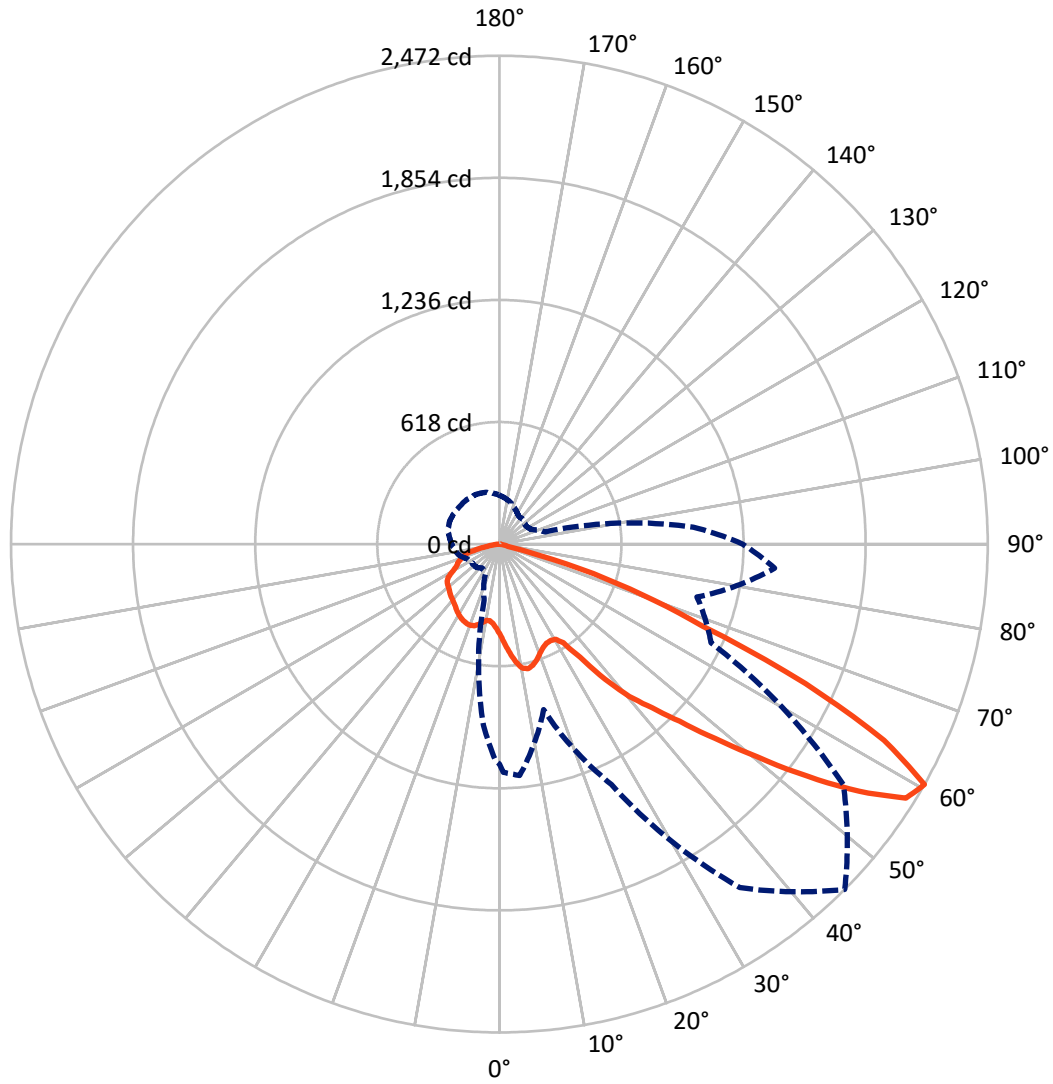
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	779.9	0.0	779.9
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	1445.0	0.0	1445.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	2224.9	0.0	2224.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	2.0
10°-20°	140.9	6.3
20°-30°	228.9	10.3
30°-40°	322.8	14.5
40°-50°	446.1	20.1
50°-60°	574.3	25.8
60°-70°	363.9	16.4
70°-80°	93.4	4.2
80°-90°	10.0	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°	2224.9	100.0
0°-180°	2224.9	100.0

Coefficient of Utilization



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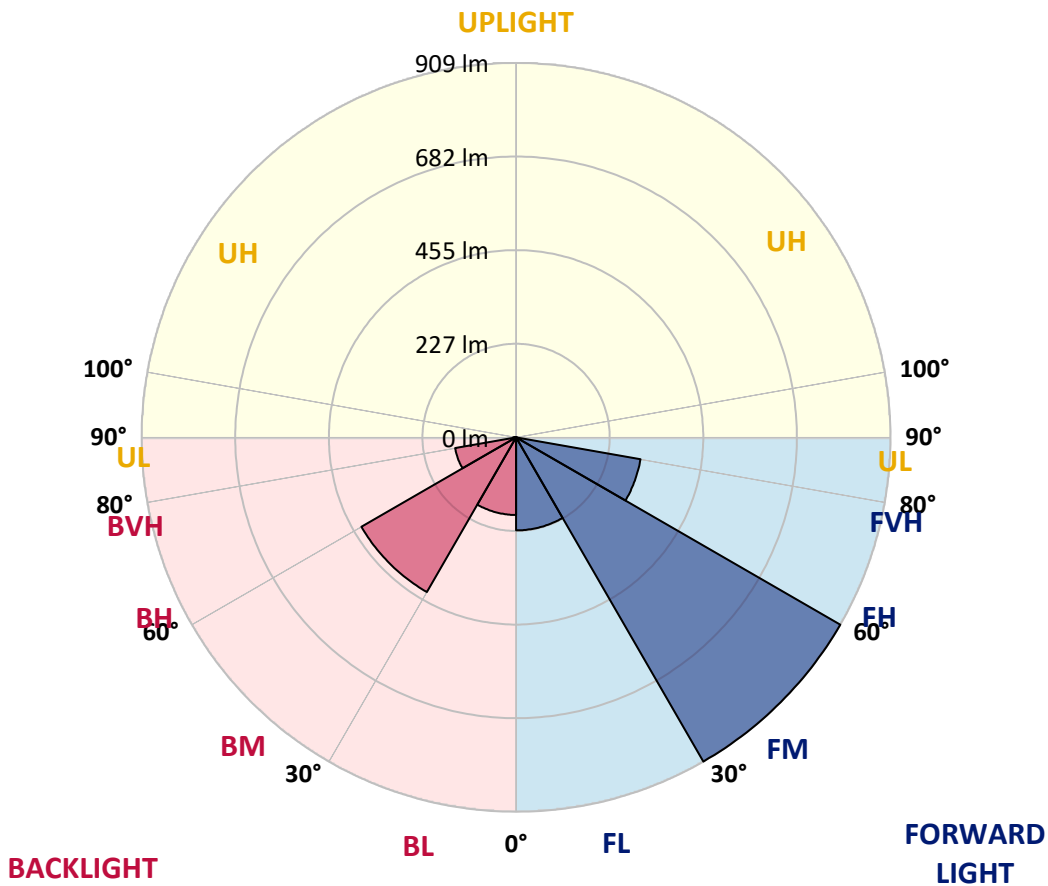
CATALOG NUMBER: GWS-SA1A-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.9	10.2			
FM (30°-60°)	909.4	40.9			
FH (60°-80°)	307.0	13.8			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	188.5	8.5	B1/500		
BM (30°-60°)	433.8	19.5	B1/1000		
BH (60°-80°)	150.3	6.8	B1/500		G1/500
BVH (80°-90°)	7.3	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°	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1
2.5°	478.1	481.3	483.4	487.2	494.2	498.0	502.3	497.6	498.9	498.2	490.7
5°	506.4	510.3	515.6	527.0	539.8	547.0	553.7	552.7	546.4	535.8	528.2
7.5°	532.9	537.4	546.6	565.1	584.1	595.1	603.2	597.9	592.6	575.9	557.0
10°	553.7	556.3	568.8	593.6	615.7	628.1	638.1	636.9	629.5	610.8	585.3
12.5°	573.3	575.1	588.6	613.4	633.2	638.7	646.9	649.5	647.1	633.0	607.9
15°	594.3	597.7	610.2	629.1	638.1	632.4	635.2	642.6	649.5	649.5	626.5
17.5°	613.8	616.9	629.5	637.7	629.1	614.0	614.8	624.2	640.7	658.1	643.4
20°	631.2	634.0	646.4	638.7	611.6	589.6	589.0	600.4	627.1	663.6	661.5
22.5°	650.1	654.2	664.6	639.5	595.3	567.3	567.1	579.0	615.1	669.1	682.3
25°	677.0	683.3	688.6	646.7	586.5	552.9	555.5	566.7	611.2	678.0	713.1
27.5°	717.0	722.1	721.7	661.5	586.1	547.0	552.5	565.5	618.1	693.9	745.5
30°	760.2	762.9	758.6	682.3	595.5	550.6	558.8	574.3	635.6	720.2	793.2
32.5°	808.1	811.4	803.2	713.5	617.3	577.7	595.7	603.2	660.3	758.2	843.8
35°	863.2	869.5	852.6	754.7	681.5	676.6	702.7	692.9	712.7	803.0	897.8
37.5°	921.1	921.3	897.0	815.7	807.5	815.9	868.0	837.5	823.8	853.0	952.9
40°	970.2	969.0	931.7	897.8	917.2	950.4	1013.4	966.5	930.6	920.0	998.5
42.5°	1019.3	1014.8	977.1	950.0	992.8	1061.1	1132.3	1074.8	999.1	981.0	1043.6
45°	1082.1	1080.7	1035.2	970.8	1061.1	1185.1	1279.4	1186.3	1039.7	1016.5	1118.6
47.5°	1183.4	1176.5	1091.9	969.2	1125.1	1350.2	1469.4	1326.7	1068.0	1017.3	1239.7
50°	1282.5	1273.9	1159.6	969.0	1191.2	1521.4	1693.7	1497.4	1097.0	1022.2	1362.8
52.5°	1382.6	1382.6	1270.7	992.0	1260.5	1712.6	1952.8	1710.0	1146.3	1086.2	1514.3
55°	1442.1	1458.0	1395.6	1030.9	1341.6	1937.7	2209.1	1939.5	1222.6	1201.8	1654.1
57.5°	1366.5	1396.3	1387.3	1003.8	1389.5	2103.0	2426.4	2113.6	1260.3	1215.4	1633.1
60°	1113.5	1154.9	1175.5	866.8	1342.2	2122.2	2471.8	2125.1	1182.4	1035.0	1398.9
62.5°	740.2	774.3	805.7	619.3	1162.0	1909.2	2186.2	1909.8	987.5	772.4	969.2
65°	363.1	388.4	422.2	366.1	907.8	1595.2	1704.5	1543.2	714.3	432.4	494.4
67.5°	95.0	102.1	106.8	142.1	650.3	1146.1	1111.7	1128.8	458.9	141.3	129.2
70°	49.3	49.7	49.5	58.7	439.5	728.4	766.1	708.8	320.3	59.1	51.0
72.5°	35.3	35.5	34.9	39.5	212.2	417.3	432.4	427.7	167.8	35.1	34.9
75°	23.0	23.2	22.8	23.2	32.0	47.5	43.8	46.1	27.9	22.2	22.2
77.5°	13.7	13.9	13.7	14.1	13.7	13.7	12.6	12.6	12.0	12.0	12.2
80°	9.2	9.2	9.0	9.4	8.6	8.6	8.2	8.0	7.3	7.1	7.1
82.5°	5.5	5.7	5.5	5.5	5.1	5.1	4.7	4.5	3.9	3.9	3.7
85°	2.9	2.9	2.7	2.7	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°	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1
2.5°	488.7	484.6	478.5	472.6	467.0	461.3	454.8	448.1	442.4	436.5	433.4
5°	518.2	509.9	494.0	479.9	467.3	456.9	445.6	436.1	427.1	419.8	416.1
7.5°	544.9	531.9	507.8	485.6	468.5	454.2	438.7	424.4	412.4	403.4	400.0
10°	569.6	554.1	522.5	494.4	474.4	458.5	439.5	420.2	404.3	392.4	389.6
12.5°	589.6	571.8	534.1	501.5	477.9	460.7	444.0	427.3	411.6	396.3	393.9
15°	607.3	586.3	542.9	506.0	476.6	454.8	440.8	438.7	438.7	421.4	416.5
17.5°	622.6	599.6	550.0	508.0	468.9	437.3	428.7	446.5	466.4	454.0	443.0
20°	640.1	612.2	555.9	508.0	454.6	415.1	414.2	444.4	474.0	474.2	462.6
22.5°	657.9	626.9	562.9	506.2	435.0	389.4	404.5	436.3	462.6	473.8	465.8
25°	686.6	647.3	573.9	504.8	412.2	371.8	395.7	425.5	447.7	459.5	454.4
27.5°	723.1	674.2	590.6	507.0	389.6	361.4	386.3	411.4	431.6	442.0	438.3
30°	763.9	705.2	608.5	510.9	373.3	356.1	375.1	395.3	413.2	423.6	422.0
32.5°	815.9	738.8	624.0	505.6	364.1	353.5	363.3	377.8	395.1	401.6	403.0
35°	878.0	775.9	635.8	484.8	355.7	350.6	350.4	359.4	371.6	382.0	383.1
37.5°	935.3	819.3	648.9	449.1	340.7	343.5	335.4	340.7	352.7	363.1	367.2
40°	992.0	863.4	667.0	403.6	320.9	327.6	318.0	321.7	331.3	344.9	351.5
42.5°	1047.0	903.1	686.2	357.2	301.1	305.4	298.3	301.9	311.9	329.0	336.4
45°	1107.0	956.9	701.1	313.3	284.0	282.1	276.4	281.7	296.8	315.6	324.3
47.5°	1220.3	1041.7	710.9	284.2	274.8	261.6	255.0	266.4	283.6	302.5	313.1
50°	1358.7	1164.5	708.0	265.6	266.9	240.4	238.1	253.2	271.5	291.3	302.9
52.5°	1468.4	1284.9	675.6	247.9	251.4	226.9	220.4	242.4	259.9	280.1	292.1
55°	1552.2	1325.5	576.1	226.9	226.1	217.1	203.5	231.2	248.3	267.1	280.1
57.5°	1483.9	1235.2	427.1	198.0	193.1	197.7	184.5	212.2	234.0	252.6	264.2
60°	1231.5	984.9	237.9	175.3	161.5	172.9	170.8	192.2	218.5	238.1	248.1
62.5°	836.0	655.8	141.1	138.6	130.9	147.2	158.0	172.1	198.0	213.9	223.2
65°	416.7	318.6	93.8	103.8	104.8	121.1	141.5	157.0	178.6	194.9	204.3
67.5°	120.9	99.1	71.4	79.3	90.3	103.4	119.7	138.0	159.0	178.4	189.4
70°	52.2	52.8	56.7	66.1	76.9	90.3	106.6	124.6	142.3	157.2	165.5
72.5°	36.9	38.3	42.6	52.2	62.4	75.2	91.5	108.9	121.7	136.8	145.6
75°	23.6	24.7	28.1	35.5	43.0	55.5	70.9	86.8	100.1	110.9	119.3
77.5°	13.0	13.3	16.1	20.4	25.5	33.4	44.8	57.3	67.1	73.2	80.7
80°	7.5	7.5	9.0	11.6	14.7	19.6	25.9	32.0	37.9	41.8	45.5
82.5°	4.1	4.1	4.7	6.3	8.0	10.8	14.5	17.5	21.2	23.2	25.7
85°	1.2	1.2	1.6	2.2	2.9	4.1	5.7	7.3	9.0	10.4	11.8
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°	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1
2.5°	432.8	429.9	428.3	426.3	426.9	425.1	424.0	424.6	421.0	424.6	428.3
5°	414.7	410.6	407.3	404.7	403.4	401.0	399.6	399.6	397.3	401.0	405.5
7.5°	398.8	395.5	393.9	392.2	390.4	388.2	385.7	384.9	383.5	387.3	391.2
10°	388.2	388.6	389.6	391.8	391.4	390.0	386.3	384.3	384.3	388.8	394.7
12.5°	393.0	397.3	399.8	403.9	404.7	403.4	399.8	398.1	402.2	408.9	418.7
15°	412.0	414.9	416.9	420.2	420.0	418.9	416.1	417.3	430.8	443.8	452.6
17.5°	432.6	429.3	428.9	431.0	431.6	430.4	428.7	434.2	456.4	468.7	473.2
20°	447.5	436.3	433.8	434.6	436.3	435.7	435.7	444.6	467.7	473.4	467.7
22.5°	452.0	436.1	432.4	432.6	434.8	435.0	436.1	445.4	458.9	459.1	450.3
25°	444.8	429.5	426.9	427.3	429.9	429.7	430.1	435.5	441.4	438.9	432.4
27.5°	431.4	418.1	417.3	419.5	423.0	421.2	420.0	421.4	424.2	421.2	415.5
30°	416.1	404.9	405.3	409.6	413.2	410.2	407.1	407.9	408.1	404.9	398.3
32.5°	400.0	391.6	393.0	397.5	401.8	398.6	395.3	394.9	391.0	387.1	380.8
35°	383.9	380.6	382.4	386.1	389.8	387.1	385.1	383.9	375.5	369.8	364.5
37.5°	369.2	371.6	374.9	377.1	378.4	378.2	376.9	374.1	363.1	356.4	349.4
40°	356.1	363.7	367.2	368.2	370.0	369.6	369.4	365.3	350.8	343.7	335.8
42.5°	344.3	354.9	360.8	361.9	362.9	363.1	362.5	356.6	340.0	331.7	324.1
45°	332.9	346.8	354.3	353.3	354.7	354.7	355.3	347.6	329.4	320.9	312.9
47.5°	322.9	339.2	346.2	344.9	345.8	346.4	347.0	338.0	317.8	309.7	301.5
50°	313.7	331.1	337.0	337.4	337.4	338.8	338.6	329.8	308.0	299.3	291.1
52.5°	304.0	322.7	329.0	331.7	332.5	333.1	330.3	320.1	298.0	287.4	279.9
55°	292.5	314.2	319.9	323.3	325.0	324.5	320.7	310.3	287.9	277.3	268.7
57.5°	275.2	295.8	304.0	305.6	308.2	306.6	302.1	293.4	271.5	260.9	252.2
60°	256.3	271.1	277.7	279.1	277.0	277.7	277.0	268.7	249.7	241.4	232.4
62.5°	231.4	244.6	251.6	253.4	249.9	252.2	251.4	241.0	222.0	213.2	205.3
65°	212.6	227.1	235.3	236.3	235.3	236.3	233.4	220.8	202.8	193.9	185.7
67.5°	198.0	212.8	221.4	224.2	223.2	223.0	218.5	203.9	185.3	175.5	165.1
70°	172.7	185.7	196.7	203.7	203.7	199.8	191.2	177.6	162.7	154.3	146.2
72.5°	152.9	169.4	180.2	187.3	188.8	186.5	174.5	160.0	142.9	134.5	126.0
75°	126.0	142.1	153.7	163.1	164.9	162.5	148.6	134.3	118.4	110.3	101.7
77.5°	84.2	93.8	103.2	111.7	109.9	111.5	102.1	91.3	81.5	75.4	71.6
80°	47.5	53.8	56.7	61.4	61.4	61.4	55.2	50.2	44.6	41.2	37.3
82.5°	26.9	31.0	32.2	36.1	37.1	37.3	33.2	30.0	26.5	24.7	22.0
85°	12.4	14.7	14.9	17.1	17.9	19.6	17.7	15.5	13.5	12.6	11.0
87.5°	0.4	1.2	1.6	3.1	4.1	4.7	5.1	5.1	4.3	3.9	3.3
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°	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1
2.5°	432.8	437.7	443.4	447.5	454.8	460.9	467.3	474.2	479.3	478.1
5°	411.0	419.1	429.5	439.1	452.8	466.6	481.9	497.6	506.8	506.4
7.5°	398.8	410.4	423.0	435.9	452.0	471.9	495.4	519.8	532.3	532.9
10°	405.3	417.7	426.3	437.1	454.0	479.1	507.2	536.6	550.8	553.7
12.5°	425.9	424.8	424.2	432.0	452.4	484.2	518.6	553.7	569.8	573.3
15°	445.4	424.4	411.8	417.1	445.0	487.4	529.8	572.4	590.6	594.3
17.5°	449.1	417.3	393.9	397.5	433.4	488.5	540.6	590.8	610.4	613.8
20°	438.9	408.1	380.8	375.7	418.7	485.8	547.4	606.1	627.5	631.2
22.5°	426.1	400.0	371.0	357.8	400.8	483.2	554.9	622.2	646.9	650.1
25°	412.6	389.6	361.9	341.7	380.4	481.5	567.6	643.4	673.2	677.0
27.5°	398.3	376.9	353.9	333.9	361.7	483.6	585.5	677.6	711.5	717.0
30°	383.1	364.3	348.8	331.3	348.8	485.4	605.3	712.7	752.5	760.2
32.5°	367.2	352.7	343.5	332.5	340.9	481.1	622.6	752.0	801.4	808.1
35°	351.3	340.9	336.8	334.7	330.3	465.4	636.7	791.8	857.2	863.2
37.5°	336.4	328.6	327.4	329.6	313.9	439.7	653.0	842.4	912.1	921.1
40°	322.5	315.4	315.2	314.8	296.0	404.7	675.0	893.7	966.1	970.2
42.5°	309.7	300.7	302.3	297.4	281.3	366.7	695.8	937.6	1016.5	1019.3
45°	298.3	286.4	288.3	282.1	274.4	327.0	714.1	989.3	1080.3	1082.1
47.5°	287.2	274.6	269.5	269.1	273.2	290.3	732.1	1089.0	1180.2	1183.4
50°	277.0	263.4	248.9	257.9	265.6	262.8	754.5	1195.9	1283.3	1282.5
52.5°	267.3	249.3	228.7	246.1	246.1	242.4	748.2	1260.7	1368.5	1382.6
55°	256.1	226.7	207.7	226.3	217.3	224.0	636.3	1281.9	1422.1	1442.1
57.5°	233.8	198.8	182.3	192.2	178.8	207.7	457.1	1176.7	1331.0	1366.5
60°	212.4	178.2	167.4	165.5	148.0	169.4	296.2	921.3	1095.6	1113.5
62.5°	187.3	160.4	151.3	137.2	119.1	123.3	179.4	606.3	736.1	740.2
65°	168.4	145.4	127.8	111.1	97.4	89.5	106.0	292.3	368.0	363.1
67.5°	144.5	124.6	107.8	95.8	84.6	74.6	70.5	86.8	98.3	95.0
70°	128.6	109.5	93.4	82.0	71.6	61.6	54.4	51.2	50.2	49.3
72.5°	110.9	94.2	77.5	66.5	56.7	47.5	41.0	37.1	36.1	35.3
75°	88.5	72.8	57.5	47.1	38.5	32.0	27.7	24.5	23.9	23.0
77.5°	58.5	46.7	34.2	27.9	22.8	19.4	16.5	14.5	14.1	13.7
80°	32.2	26.9	21.0	16.9	13.7	11.8	10.8	9.6	9.4	9.2
82.5°	19.2	16.1	12.0	9.6	8.0	7.1	6.5	5.9	5.7	5.5
85°	9.6	7.5	5.3	4.5	4.1	3.7	3.7	3.1	2.9	2.9
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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