

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: P631826

Luminaire Tested: GWS-SA2B-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4178.5 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

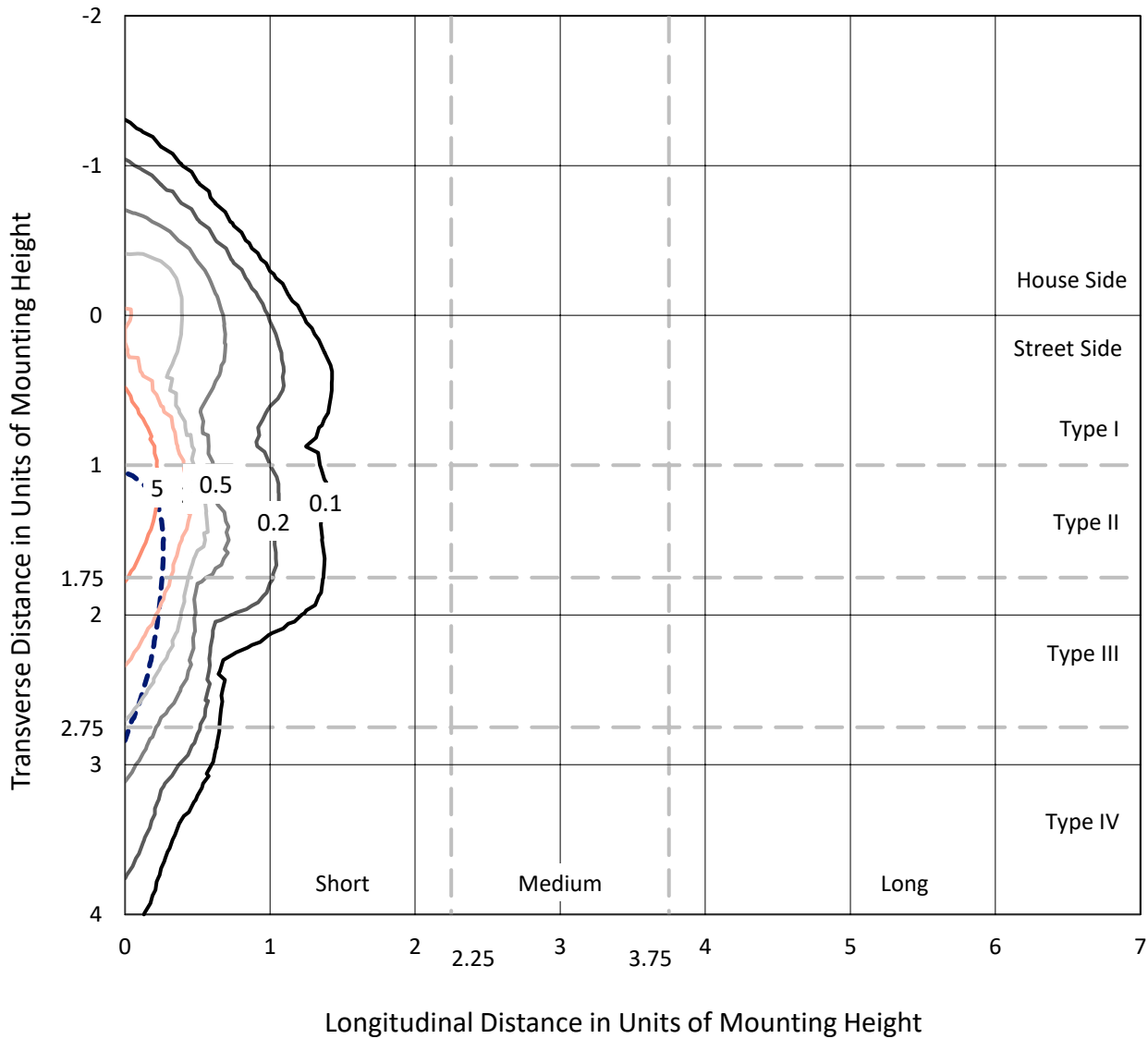
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

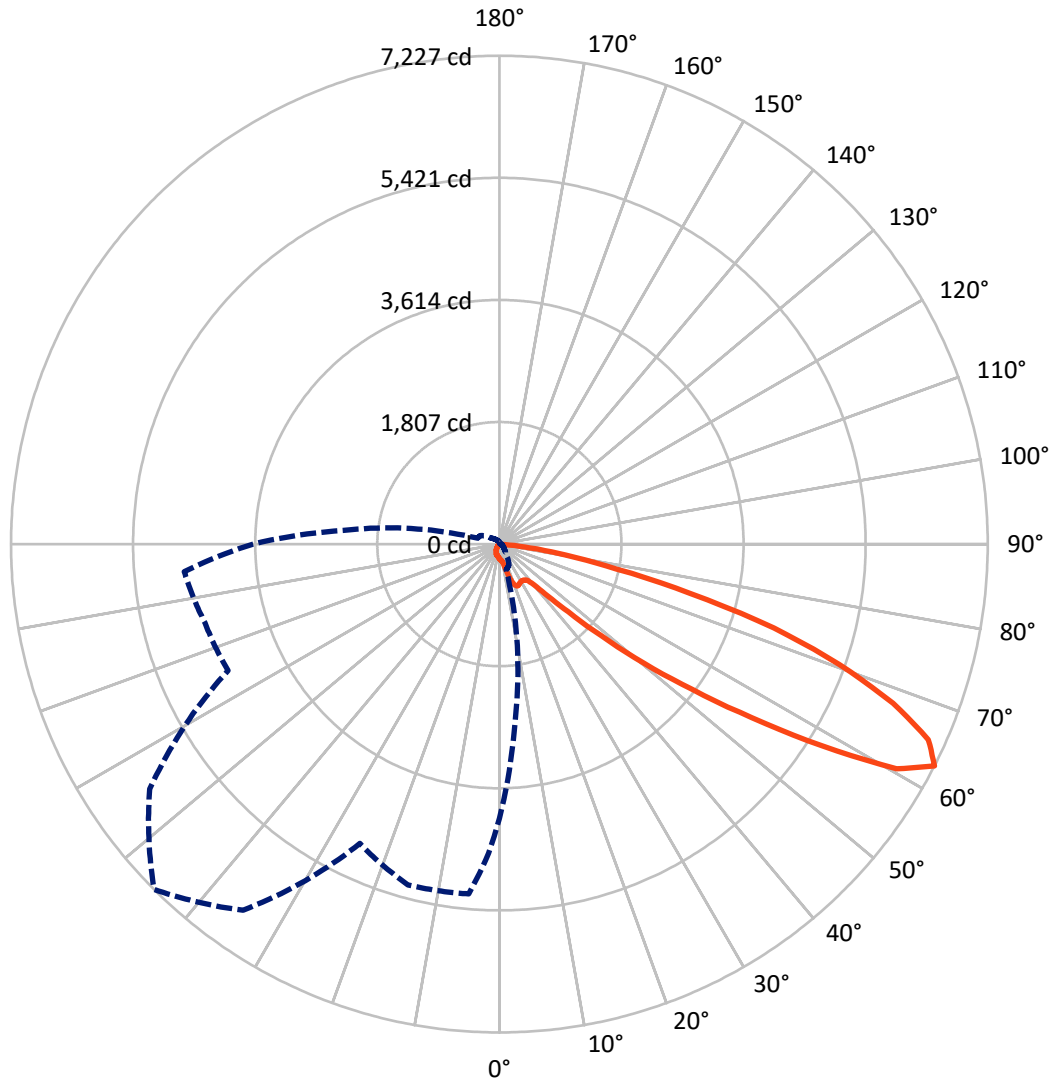
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.5	0.0	485.5
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	3693.0	0.0	3693.0
	% Fixture	88.4	0.0	88.4
Total	Lumens	4178.5	0.0	4178.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	0.4
10°-20°	64.1	1.5
20°-30°	144.9	3.5
30°-40°	249.6	6.0
40°-50°	470.9	11.3
50°-60°	1051.3	25.2
60°-70°	1406.2	33.7
70°-80°	705.2	16.9
80°-90°	67.6	1.6
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°	4178.5	100.0
0°-180°	4178.5	100.0

Coefficient of Utilization



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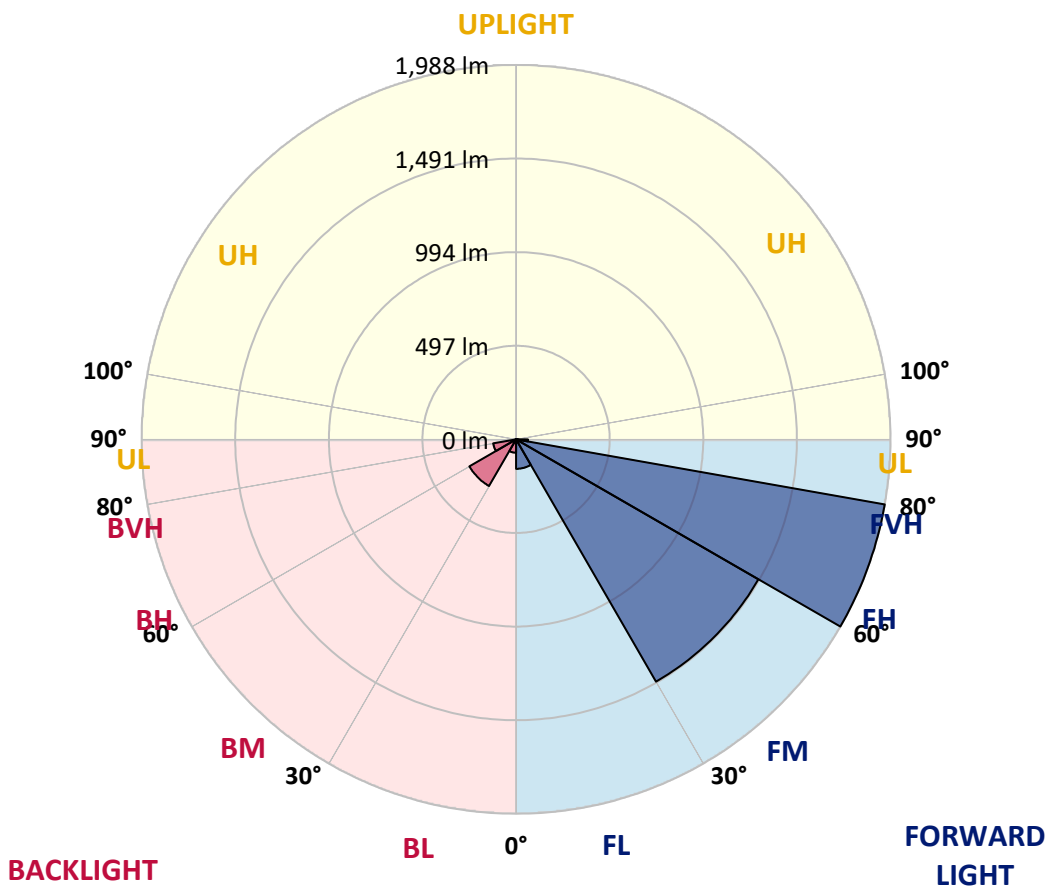
CATALOG NUMBER: GWS-SA2B-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.5	3.7			
FM (30°-60°)	1485.6	35.6			
FH (60°-80°)	1987.9	47.6			G2/5000
FVH (80°-90°)	63.1	1.5			G1/100
BL (0°-30°)	71.3	1.7	B0/110		
BM (30°-60°)	286.3	6.9	B1/1000		
BH (60°-80°)	123.5	3.0	B1/500		G1/500
BVH (80°-90°)	4.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7
2.5°	214.2	213.7	212.7	209.8	207.3	205.8	202.8	202.8	202.4	201.4	199.4
5°	207.3	205.3	203.3	197.9	192.0	188.5	184.5	184.0	184.0	183.1	182.6
7.5°	196.4	194.4	192.0	183.1	177.6	174.2	170.7	170.2	168.7	168.7	168.7
10°	190.5	187.5	183.6	173.7	168.2	165.2	162.8	161.3	160.3	158.8	158.3
12.5°	203.3	197.9	189.5	171.7	164.3	160.3	157.3	156.3	153.4	151.4	149.9
15°	243.4	230.1	213.2	176.1	162.8	156.8	152.9	150.9	148.4	145.0	142.5
17.5°	309.2	289.9	261.7	190.5	161.3	153.9	148.9	145.5	142.0	138.0	135.1
20°	400.3	371.6	337.9	216.7	161.3	150.4	144.5	140.0	135.1	130.6	127.2
22.5°	516.0	487.3	429.9	261.2	163.3	146.0	139.0	133.1	127.2	123.2	119.2
25°	645.7	605.1	551.7	315.2	168.7	140.0	132.6	126.7	121.2	116.3	111.8
27.5°	790.1	746.1	674.8	391.8	180.6	134.1	125.7	120.2	115.3	110.3	104.4
30°	923.2	897.0	824.3	483.9	199.9	130.1	120.2	115.3	110.3	103.9	98.5
32.5°	1083.0	1036.5	976.6	588.8	225.6	126.2	115.8	108.8	104.9	99.0	93.0
35°	1243.8	1204.2	1125.6	717.9	254.3	122.2	110.3	103.9	100.4	93.5	87.1
37.5°	1409.6	1400.7	1323.0	860.9	282.5	117.8	103.9	99.9	96.5	88.6	81.1
40°	1572.8	1556.5	1484.8	1024.1	299.8	112.8	98.5	96.0	92.0	83.1	74.7
42.5°	1729.2	1716.8	1647.0	1180.5	297.3	108.4	93.0	90.0	87.1	78.2	67.8
45°	1921.1	1900.9	1812.8	1296.3	272.1	113.3	87.6	82.6	82.1	73.7	60.9
47.5°	2280.3	2213.5	2064.1	1385.3	246.9	126.2	81.6	75.7	79.2	69.3	53.9
50°	2783.5	2704.8	2488.6	1454.6	246.4	143.0	80.6	69.3	76.7	65.8	48.0
52.5°	3289.1	3150.6	2887.9	1491.7	264.7	155.4	89.6	62.8	73.7	62.3	43.5
55°	3773.5	3486.0	3055.1	1369.0	279.0	168.7	105.9	59.4	68.3	58.4	41.1
57.5°	4235.1	3755.7	3127.8	1083.0	327.0	174.2	115.8	60.9	60.4	53.4	39.1
60°	4298.4	3742.8	2980.9	629.8	360.7	164.8	111.8	67.8	52.9	47.5	35.6
62.5°	4059.0	3494.0	2646.0	392.8	334.9	161.3	99.4	77.2	48.0	42.1	31.2
65°	3695.3	3103.6	2206.1	253.3	253.8	179.1	87.1	75.7	45.0	37.1	26.7
67.5°	3126.9	2597.5	1738.1	169.7	143.5	152.9	76.2	51.9	44.0	31.7	20.8
70°	2282.3	1848.9	1131.5	113.3	85.6	122.2	63.8	37.1	41.6	26.2	14.8
72.5°	1668.3	1242.3	631.8	74.2	48.5	71.2	47.0	26.7	32.2	19.3	10.4
75°	1200.8	854.9	360.7	47.5	32.2	39.1	30.7	18.3	20.8	15.3	9.4
77.5°	577.9	416.6	163.8	26.2	21.8	19.8	16.3	11.4	12.9	13.9	8.4
80°	21.8	16.3	12.4	12.9	13.9	8.9	7.4	5.9	7.4	9.4	4.5
82.5°	0.0	0.0	0.0	1.5	2.0	2.5	3.0	2.5	3.0	3.5	0.5
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°	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7
2.5°	200.9	199.9	200.9	201.9	202.8	203.8	202.4	203.3	204.3	201.9	202.8
5°	185.0	184.5	187.5	189.0	191.0	192.0	191.0	191.0	190.5	187.5	187.5
7.5°	171.2	171.7	174.2	177.6	180.1	181.6	180.6	180.1	178.6	174.2	174.2
10°	160.8	160.8	164.8	167.7	171.2	172.7	171.7	170.2	168.7	164.3	163.8
12.5°	152.4	152.4	155.4	160.3	164.3	166.2	165.7	163.8	161.3	156.8	156.3
15°	144.5	144.0	148.4	152.9	158.3	160.8	159.8	158.3	153.9	149.9	148.9
17.5°	136.6	136.1	140.0	146.0	151.9	155.4	154.9	151.4	147.4	142.5	141.5
20°	128.6	127.6	132.6	138.5	144.5	147.9	146.9	144.0	139.0	134.1	133.1
22.5°	120.7	120.2	123.7	128.6	134.1	137.0	136.6	134.1	129.1	124.7	124.7
25°	111.8	111.8	114.3	117.8	121.7	123.2	123.7	122.7	119.7	117.3	117.3
27.5°	104.4	102.9	103.9	104.9	106.9	109.3	109.3	110.3	110.8	109.8	110.3
30°	98.5	96.0	94.5	92.5	91.5	92.5	93.5	97.0	100.4	102.4	103.4
32.5°	91.5	88.6	84.6	79.2	75.7	74.7	77.7	84.1	90.5	95.0	97.5
35°	84.6	80.6	73.2	65.3	60.9	59.4	62.8	70.3	79.7	87.6	91.0
37.5°	77.7	72.2	61.8	52.4	47.5	46.5	50.0	57.9	68.8	79.7	84.1
40°	69.8	63.3	51.0	41.1	37.1	36.1	39.1	47.0	58.4	70.8	77.7
42.5°	61.8	53.9	41.1	32.7	28.7	28.7	32.7	38.6	49.0	62.3	70.8
45°	53.9	45.5	33.6	26.2	23.7	24.2	26.7	32.7	41.1	54.9	62.8
47.5°	46.5	39.1	27.7	21.8	19.8	20.3	23.3	28.2	35.1	47.5	55.9
50°	40.1	33.1	24.2	18.3	16.8	17.8	20.8	25.2	31.2	42.1	49.0
52.5°	36.1	29.7	22.3	15.8	14.8	15.8	18.8	22.8	28.2	37.1	44.0
55°	34.1	29.2	22.3	14.3	12.9	13.9	16.8	20.8	25.2	33.6	39.6
57.5°	33.6	30.2	23.7	12.9	10.9	11.9	14.8	18.8	23.3	30.7	35.6
60°	31.7	28.7	23.3	10.4	8.4	9.9	12.4	16.3	21.3	28.7	33.1
62.5°	27.7	25.2	20.3	8.4	6.4	7.4	10.4	14.3	19.3	26.2	31.2
65°	22.8	20.3	15.8	5.4	4.0	4.9	7.9	12.4	16.8	23.7	28.2
67.5°	16.8	14.3	10.9	3.5	2.0	3.5	6.4	10.4	15.3	21.3	25.7
70°	10.4	8.4	5.9	2.0	1.5	3.0	5.9	9.9	13.9	19.8	24.2
72.5°	5.9	4.0	2.5	1.0	1.5	3.0	5.9	9.9	13.4	18.8	22.8
75°	4.5	2.5	1.0	0.5	1.0	2.5	5.4	8.9	12.9	17.8	21.8
77.5°	3.0	1.5	0.5	0.0	0.5	2.0	4.9	8.4	11.9	16.8	20.8
80°	0.5	0.0	0.0	0.0	0.0	1.5	4.5	7.4	10.9	14.8	18.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	3.5	6.4	9.4	12.4	14.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.9	7.4	9.4	10.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.9	5.9	6.9
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°	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7
2.5°	202.4	205.3	205.3	207.3	209.8	214.2	216.7	220.2	222.6	225.1	226.1
5°	187.0	187.5	188.0	189.0	192.0	196.9	201.4	206.8	213.2	218.2	221.2
7.5°	174.2	174.2	174.2	175.6	178.6	182.1	186.5	193.9	201.4	207.3	212.3
10°	163.3	164.8	165.2	167.7	171.2	175.6	180.6	187.0	195.4	203.3	212.3
12.5°	156.3	157.8	160.3	162.8	166.2	171.2	176.6	185.0	202.4	218.7	237.5
15°	149.9	151.9	154.9	158.3	162.3	167.7	173.7	191.0	231.5	262.2	291.9
17.5°	143.0	146.0	149.9	153.4	158.3	164.3	171.7	205.3	285.0	335.9	386.4
20°	134.1	138.0	142.5	147.9	153.9	160.8	171.7	235.0	362.2	435.4	502.2
22.5°	125.7	129.6	135.1	142.0	148.9	155.8	174.2	280.0	461.6	554.1	638.7
25°	118.7	123.7	129.1	135.1	143.0	150.9	180.1	343.4	581.3	700.6	760.4
27.5°	112.3	118.2	123.7	128.6	135.6	144.5	193.4	428.0	722.8	844.1	891.1
30°	105.9	112.8	118.2	123.2	130.1	139.5	213.7	535.8	880.2	997.9	1002.9
32.5°	100.4	106.9	113.3	118.2	124.7	135.6	241.9	662.0	1041.5	1155.3	1108.7
35°	94.5	101.9	107.9	113.3	120.2	132.1	274.6	798.0	1204.2	1299.7	1214.1
37.5°	88.6	97.0	104.4	108.4	115.3	128.6	298.3	940.0	1370.5	1440.7	1306.6
40°	83.1	92.5	100.9	104.9	108.4	124.2	301.8	1085.5	1539.2	1579.8	1393.7
42.5°	77.2	87.6	95.0	100.4	103.4	121.2	281.0	1208.2	1680.7	1718.3	1507.5
45°	70.8	83.1	89.1	93.0	99.0	123.2	254.3	1303.2	1842.5	1907.3	1695.0
47.5°	64.3	78.2	83.1	86.1	94.0	135.1	244.4	1366.5	2109.1	2243.7	2011.2
50°	58.4	73.7	79.2	78.7	93.0	150.4	255.3	1414.5	2509.9	2668.2	2444.6
52.5°	51.9	68.8	75.2	73.2	100.4	162.3	277.1	1452.6	2818.1	3165.9	3026.9
55°	46.5	63.3	69.3	68.8	114.3	171.2	293.9	1251.7	2945.8	3628.5	3683.0
57.5°	42.5	57.4	62.3	70.8	123.2	171.2	339.9	888.6	2948.2	3968.9	4553.7
60°	39.1	51.9	55.4	77.7	119.7	162.3	336.4	544.2	2717.2	3945.7	5016.8
62.5°	36.1	47.0	51.5	79.7	105.9	160.8	303.8	337.4	2317.4	3645.4	4680.9
65°	33.6	43.0	49.5	73.2	96.0	172.2	204.8	242.4	1879.6	3303.0	4295.5
67.5°	31.2	39.6	52.4	59.9	87.1	153.9	147.9	172.2	1475.4	2927.5	3941.7
70°	29.2	37.6	55.4	49.0	76.2	120.2	104.9	130.6	1129.5	2442.6	3443.5
72.5°	27.7	35.1	46.5	38.6	61.8	93.0	73.2	95.0	738.2	1906.8	2807.2
75°	26.2	32.2	34.1	31.2	46.0	60.9	55.4	63.8	439.8	1393.7	2129.9
77.5°	25.7	30.2	27.7	25.2	31.2	36.1	42.1	43.0	214.7	697.1	1116.2
80°	22.8	27.2	23.7	20.8	21.3	23.7	31.2	28.7	49.0	177.1	297.8
82.5°	17.8	21.3	19.8	17.3	17.3	17.3	20.8	19.3	15.8	79.7	134.6
85°	12.4	14.8	14.8	13.9	13.4	13.4	12.9	12.4	4.5	4.9	7.4
87.5°	8.4	10.4	10.9	10.4	8.9	7.9	6.9	5.9	2.0	0.0	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°	358°	360°
0°	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7	216.7
2.5°	229.6	231.1	231.1	229.1	227.6	223.6	219.7	215.7	214.7	214.2
5°	229.6	235.5	238.5	238.0	234.5	228.1	219.7	210.8	208.3	207.3
7.5°	226.1	237.5	246.4	247.9	241.4	230.1	214.7	201.4	197.9	196.4
10°	234.0	256.3	274.1	276.6	269.1	246.9	222.1	199.4	193.9	190.5
12.5°	276.6	313.2	334.9	345.3	331.0	302.8	261.7	221.2	208.8	203.3
15°	362.7	414.6	456.2	456.2	442.8	392.8	340.9	275.1	258.3	243.4
17.5°	473.0	538.3	574.9	570.9	550.7	515.5	453.2	358.7	324.6	309.2
20°	598.7	637.7	646.2	643.7	634.8	614.5	571.4	470.0	424.0	400.3
22.5°	707.5	697.1	684.7	674.8	672.4	678.3	672.4	594.2	558.1	516.0
25°	781.2	722.3	685.2	667.4	675.8	710.0	747.1	717.9	689.2	645.7
27.5°	821.3	719.4	665.9	647.6	662.0	710.5	791.1	840.6	810.9	790.1
30°	843.1	716.9	653.6	635.8	657.5	718.4	821.8	955.4	956.4	923.2
32.5°	874.2	732.7	656.0	639.7	668.9	742.1	860.4	1072.1	1100.8	1083.0
35°	909.4	757.0	667.4	652.6	688.7	773.8	903.4	1189.9	1249.8	1243.8
37.5°	942.5	784.2	694.1	679.8	718.9	801.0	945.0	1305.7	1388.8	1409.6
40°	977.1	822.3	776.3	790.1	811.9	844.1	982.1	1406.1	1541.7	1572.8
42.5°	1058.8	954.4	1024.6	1050.9	1053.8	987.5	1063.2	1534.7	1692.1	1729.2
45°	1240.8	1189.4	1390.8	1427.9	1408.6	1207.7	1258.7	1720.3	1902.3	1921.1
47.5°	1470.9	1494.7	1891.9	2020.1	1904.3	1467.4	1495.6	2110.6	2287.3	2280.3
50°	1739.1	1851.4	2460.9	2763.2	2486.1	1804.9	1768.8	2590.5	2804.8	2783.5
52.5°	2056.2	2266.0	3144.7	3574.1	3311.9	2184.3	2169.5	3226.3	3356.9	3289.1
55°	2455.5	2666.2	3931.3	4531.5	4158.4	2647.4	2698.4	3963.5	3988.7	3773.5
57.5°	3051.2	3188.2	4858.5	5629.3	5042.1	3276.8	3646.3	4944.6	4642.8	4235.1
60°	4132.7	3859.6	5754.5	6752.4	5982.1	4161.9	4896.6	5525.9	4860.5	4298.4
62.5°	4509.2	4429.5	6315.6	7227.4	6614.4	4888.7	5221.7	5196.4	4578.5	4059.0
65°	3938.8	4287.6	6215.1	6976.6	6533.2	4769.0	4685.8	4832.8	4260.8	3695.3
67.5°	3638.4	3954.1	5834.7	6284.4	6083.5	4362.8	4176.7	4136.7	3577.1	3126.9
70°	3335.6	3648.3	5283.0	5338.9	5245.4	3700.8	3456.4	3187.7	2673.7	2282.3
72.5°	2971.5	3143.7	4517.6	4252.4	4146.5	2906.7	2855.2	2400.6	2004.3	1668.3
75°	2591.5	2541.6	3522.2	2918.6	2997.7	2261.5	2411.4	1762.8	1468.4	1200.8
77.5°	1885.0	1847.9	2359.0	1772.7	1963.2	1481.3	1330.9	703.5	669.9	577.9
80°	1051.9	1268.1	1274.0	993.5	1239.4	965.8	333.0	23.3	14.8	21.8
82.5°	488.8	545.2	690.7	460.6	707.0	478.4	68.8	0.0	0.0	0.0
85°	158.3	231.5	193.9	67.8	171.2	161.8	11.4	0.0	0.0	0.0
87.5°	9.4	19.3	4.9	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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