

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: P632706

Luminaire Tested: GWS-SA2D-730-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632706  
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-SA2D-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

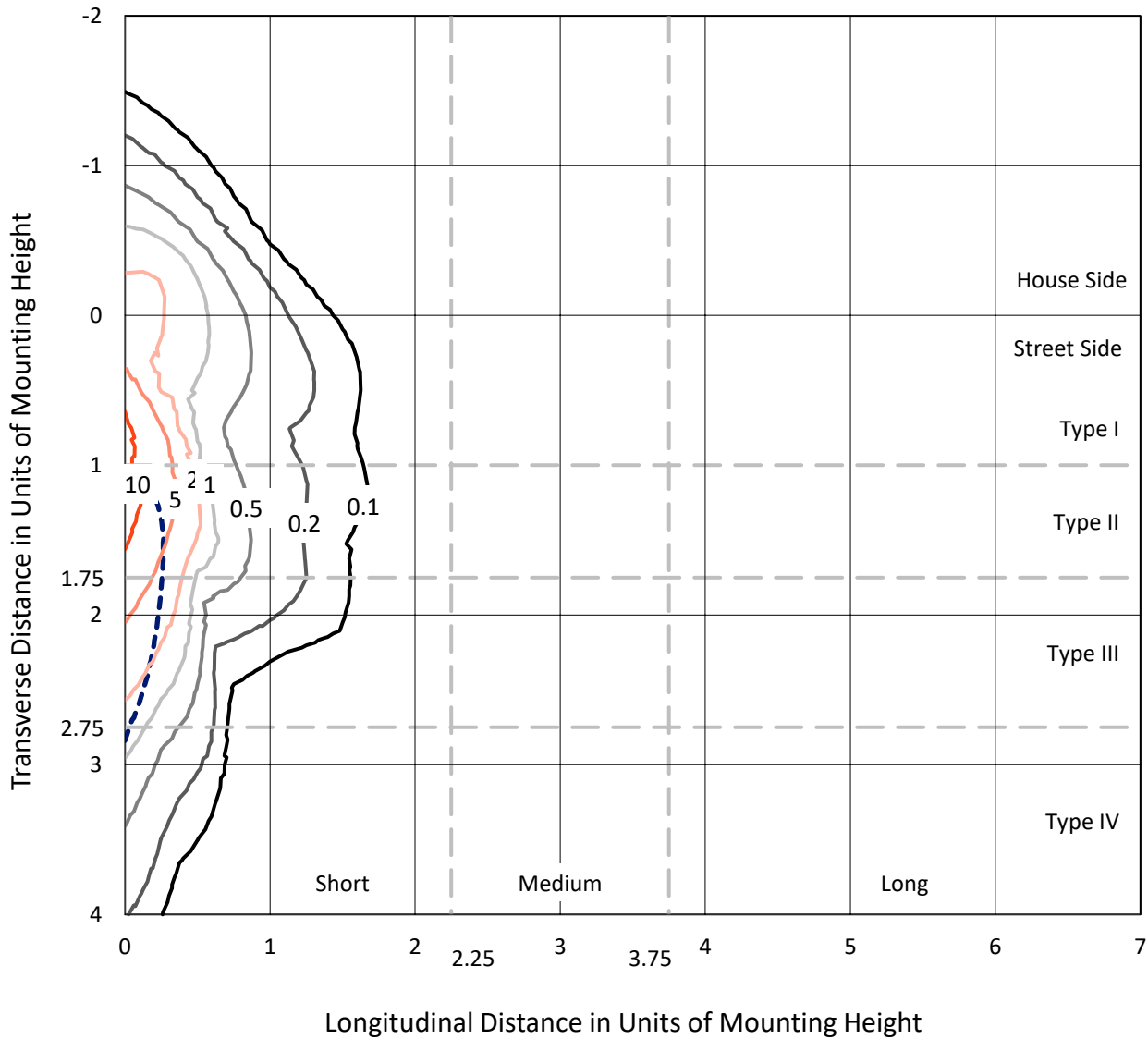
Lumens per Lamp: N/A  
Luminaire Lumens: 6437.6 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

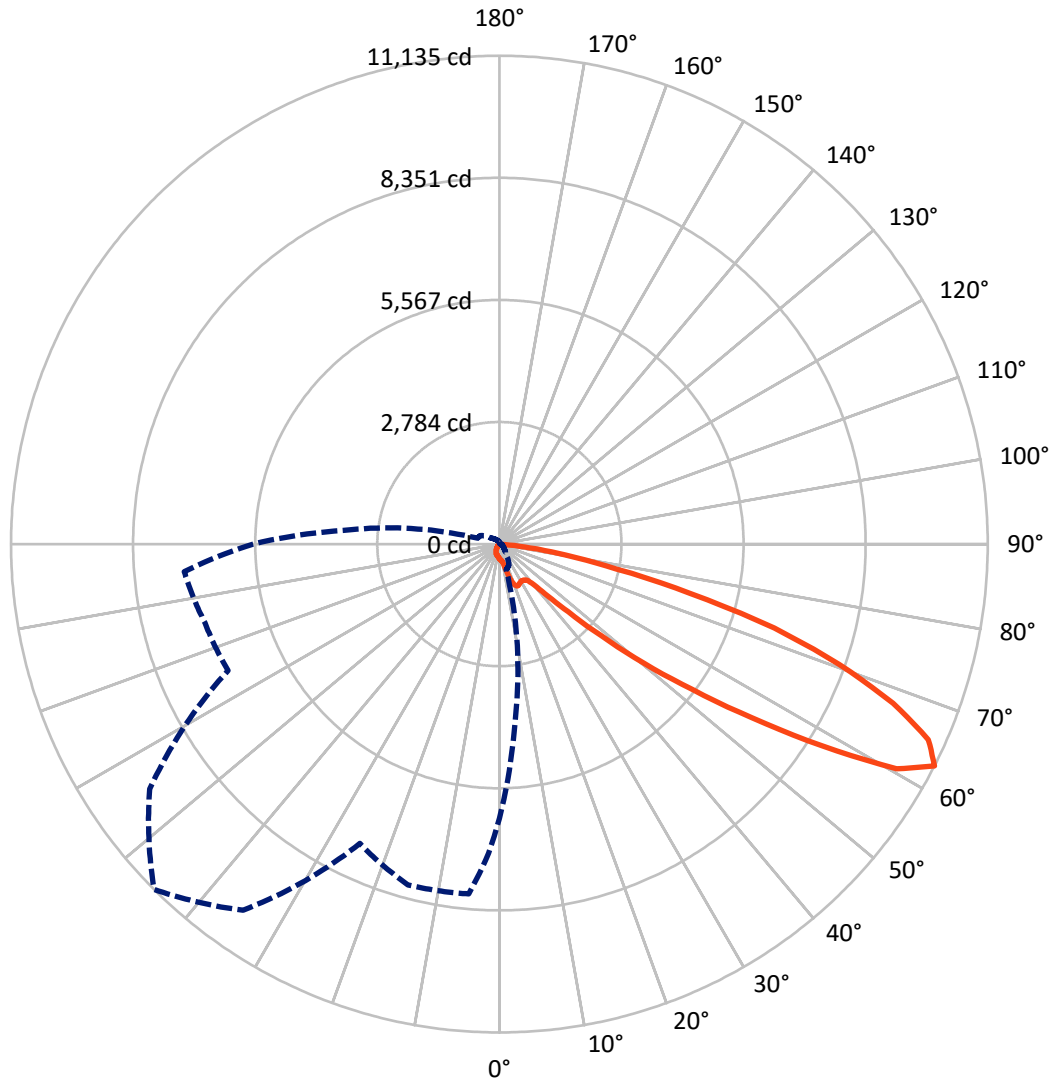
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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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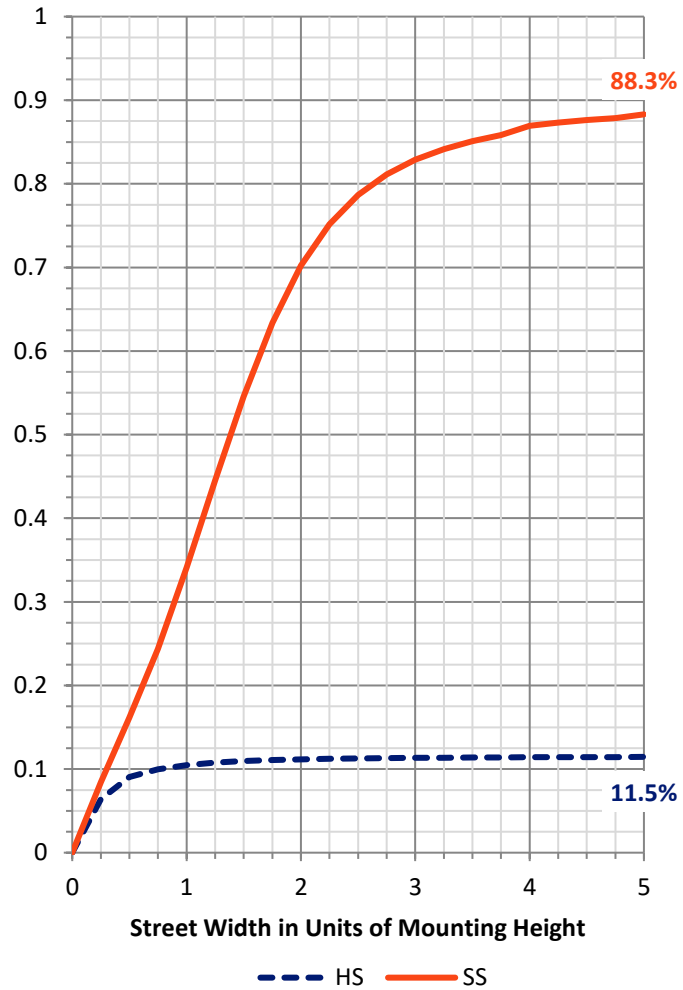
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	748.0	0.0	748.0
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	5689.6	0.0	5689.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	6437.6	0.0	6437.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	0.4
10°-20°	98.8	1.5
20°-30°	223.2	3.5
30°-40°	384.6	6.0
40°-50°	725.5	11.3
50°-60°	1619.8	25.2
60°-70°	2166.4	33.7
70°-80°	1086.4	16.9
80°-90°	104.1	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°	6437.6	100.0
0°-180°	6437.6	100.0

**Coefficient of Utilization**



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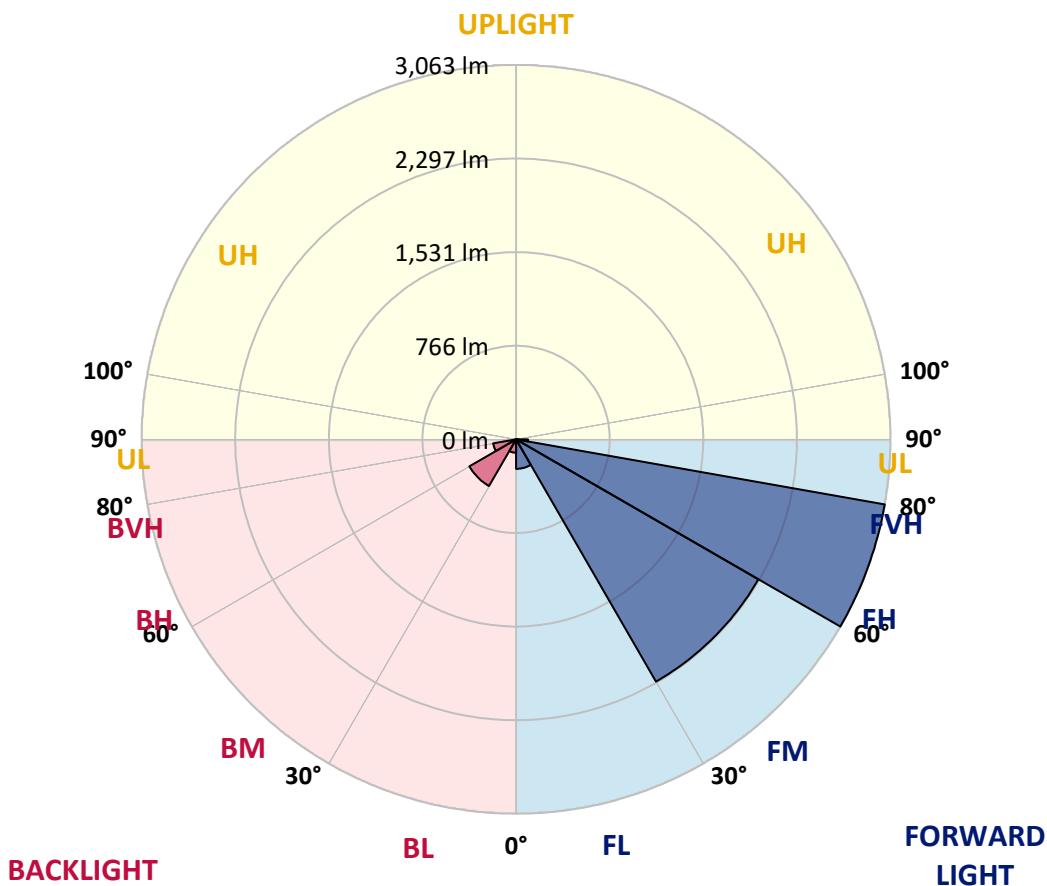
CATALOG NUMBER: GWS-SA2D-730-U-SLL-W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.1	3.7			
FM (30°-60°)	2288.8	35.6			
FH (60°-80°)	3062.6	47.6			G2/5000
FVH (80°-90°)	97.2	1.5			G1/100
BL (0°-30°)	109.8	1.7	B0/110		
BM (30°-60°)	441.0	6.9	B1/1000		
BH (60°-80°)	190.2	3.0	B1/500		G1/500
BVH (80°-90°)	6.9	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°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
2.5°	330.1	329.3	327.8	323.2	319.4	317.1	312.5	312.5	311.8	310.2	307.2
5°	319.4	316.3	313.3	304.9	295.8	290.4	284.3	283.6	283.6	282.0	281.3
7.5°	302.6	299.6	295.8	282.0	273.6	268.3	263.0	262.2	259.9	259.9	259.9
10°	293.5	288.9	282.8	267.5	259.2	254.6	250.8	248.5	247.0	244.7	243.9
12.5°	313.3	304.9	291.9	264.5	253.1	247.0	242.4	240.9	236.3	233.2	231.0
15°	375.0	354.4	328.5	271.4	250.8	241.6	235.5	232.5	228.7	223.3	219.5
17.5°	476.4	446.7	403.2	293.5	248.5	237.1	229.4	224.1	218.8	212.7	208.1
20°	616.7	572.4	520.6	333.9	248.5	231.7	222.6	215.7	208.1	201.2	195.9
22.5°	795.0	750.8	662.4	402.5	251.5	224.9	214.2	205.0	195.9	189.8	183.7
25°	994.7	932.2	849.9	485.5	259.9	215.7	204.3	195.1	186.7	179.1	172.3
27.5°	1217.3	1149.5	1039.7	603.7	278.2	206.6	193.6	185.2	177.6	170.0	160.8
30°	1422.3	1381.9	1269.9	745.5	307.9	200.5	185.2	177.6	170.0	160.1	151.7
32.5°	1668.6	1596.9	1504.7	907.1	347.6	194.4	178.4	167.7	161.6	152.4	143.3
35°	1916.3	1855.3	1734.1	1106.0	391.8	188.3	170.0	160.1	154.7	144.1	134.2
37.5°	2171.6	2157.9	2038.2	1326.3	435.2	181.4	160.1	154.0	148.6	136.4	125.0
40°	2423.2	2398.0	2287.5	1577.8	461.9	173.8	151.7	147.9	141.8	128.1	115.1
42.5°	2664.0	2645.0	2537.5	1818.7	458.1	166.9	143.3	138.7	134.2	120.4	104.4
45°	2959.8	2928.5	2792.9	1997.1	419.2	174.6	134.9	127.3	126.5	113.6	93.8
47.5°	3513.2	3410.3	3180.1	2134.3	380.4	194.4	125.8	116.6	122.0	106.7	83.1
50°	4288.4	4167.2	3834.1	2241.0	379.6	220.3	124.2	106.7	118.1	101.4	73.9
52.5°	5067.4	4854.0	4449.2	2298.2	407.8	239.3	138.0	96.8	113.6	96.0	67.1
55°	5813.6	5370.8	4706.9	2109.1	429.9	259.9	163.1	91.5	105.2	89.9	63.3
57.5°	6524.8	5786.2	4818.9	1668.6	503.8	268.3	178.4	93.8	93.0	82.3	60.2
60°	6622.4	5766.4	4592.5	970.3	555.7	253.8	172.3	104.4	81.6	73.2	54.9
62.5°	6253.5	5383.0	4076.5	605.2	516.0	248.5	153.2	118.9	73.9	64.8	48.0
65°	5693.2	4781.6	3398.8	390.3	391.0	275.9	134.2	116.6	69.4	57.2	41.2
67.5°	4817.4	4001.8	2677.8	261.4	221.1	235.5	117.4	80.0	67.8	48.8	32.0
70°	3516.2	2848.5	1743.3	174.6	131.9	188.3	98.3	57.2	64.0	40.4	22.9
72.5°	2570.3	1914.0	973.4	114.3	74.7	109.8	72.4	41.2	49.5	29.7	16.0
75°	1850.0	1317.2	555.7	73.2	49.5	60.2	47.3	28.2	32.0	23.6	14.5
77.5°	890.3	641.8	252.3	40.4	33.5	30.5	25.2	17.5	19.8	21.3	13.0
80°	33.5	25.2	19.1	19.8	21.3	13.7	11.4	9.1	11.4	14.5	6.9
82.5°	0.0	0.0	0.0	2.3	3.0	3.8	4.6	3.8	4.6	5.3	0.8
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°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
2.5°	309.5	307.9	309.5	311.0	312.5	314.0	311.8	313.3	314.8	311.0	312.5
5°	285.1	284.3	288.9	291.2	294.2	295.8	294.2	294.2	293.5	288.9	288.9
7.5°	263.7	264.5	268.3	273.6	277.5	279.7	278.2	277.5	275.2	268.3	268.3
10°	247.7	247.7	253.8	258.4	263.7	266.0	264.5	262.2	259.9	253.1	252.3
12.5°	234.8	234.8	239.3	247.0	253.1	256.1	255.4	252.3	248.5	241.6	240.9
15°	222.6	221.8	228.7	235.5	243.9	247.7	246.2	243.9	237.1	231.0	229.4
17.5°	210.4	209.6	215.7	224.9	234.0	239.3	238.6	233.2	227.1	219.5	218.0
20°	198.2	196.7	204.3	213.4	222.6	227.9	226.4	221.8	214.2	206.6	205.0
22.5°	186.0	185.2	190.6	198.2	206.6	211.1	210.4	206.6	198.9	192.1	192.1
25°	172.3	172.3	176.1	181.4	187.5	189.8	190.6	189.0	184.5	180.7	180.7
27.5°	160.8	158.5	160.1	161.6	164.6	168.5	168.5	170.0	170.7	169.2	170.0
30°	151.7	147.9	145.6	142.5	141.0	142.5	144.1	149.4	154.7	157.8	159.3
32.5°	141.0	136.4	130.3	122.0	116.6	115.1	119.7	129.6	139.5	146.4	150.2
35°	130.3	124.2	112.8	100.6	93.8	91.5	96.8	108.2	122.7	134.9	140.3
37.5°	119.7	111.3	95.3	80.8	73.2	71.7	77.0	89.2	106.0	122.7	129.6
40°	107.5	97.6	78.5	63.3	57.2	55.6	60.2	72.4	89.9	109.0	119.7
42.5°	95.3	83.1	63.3	50.3	44.2	44.2	50.3	59.5	75.5	96.0	109.0
45°	83.1	70.1	51.8	40.4	36.6	37.3	41.2	50.3	63.3	84.6	96.8
47.5°	71.7	60.2	42.7	33.5	30.5	31.3	35.8	43.4	54.1	73.2	86.1
50°	61.7	51.1	37.3	28.2	25.9	27.4	32.0	38.9	48.0	64.8	75.5
52.5°	55.6	45.7	34.3	24.4	22.9	24.4	29.0	35.1	43.4	57.2	67.8
55°	52.6	45.0	34.3	22.1	19.8	21.3	25.9	32.0	38.9	51.8	61.0
57.5°	51.8	46.5	36.6	19.8	16.8	18.3	22.9	29.0	35.8	47.3	54.9
60°	48.8	44.2	35.8	16.0	13.0	15.2	19.1	25.2	32.8	44.2	51.1
62.5°	42.7	38.9	31.3	13.0	9.9	11.4	16.0	22.1	29.7	40.4	48.0
65°	35.1	31.3	24.4	8.4	6.1	7.6	12.2	19.1	25.9	36.6	43.4
67.5°	25.9	22.1	16.8	5.3	3.0	5.3	9.9	16.0	23.6	32.8	39.6
70°	16.0	13.0	9.1	3.0	2.3	4.6	9.1	15.2	21.3	30.5	37.3
72.5°	9.1	6.1	3.8	1.5	2.3	4.6	9.1	15.2	20.6	29.0	35.1
75°	6.9	3.8	1.5	0.8	1.5	3.8	8.4	13.7	19.8	27.4	33.5
77.5°	4.6	2.3	0.8	0.0	0.8	3.0	7.6	13.0	18.3	25.9	32.0
80°	0.8	0.0	0.0	0.0	0.0	2.3	6.9	11.4	16.8	22.9	28.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	5.3	9.9	14.5	19.1	22.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.6	11.4	14.5	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.6	9.1	10.7
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°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
2.5°	311.8	316.3	316.3	319.4	323.2	330.1	333.9	339.2	343.0	346.8	348.3
5°	288.1	288.9	289.7	291.2	295.8	303.4	310.2	318.6	328.5	336.1	340.7
7.5°	268.3	268.3	268.3	270.6	275.2	280.5	287.4	298.8	310.2	319.4	327.0
10°	251.5	253.8	254.6	258.4	263.7	270.6	278.2	288.1	301.1	313.3	327.0
12.5°	240.9	243.2	247.0	250.8	256.1	263.7	272.1	285.1	311.8	336.9	365.9
15°	231.0	234.0	238.6	243.9	250.0	258.4	267.5	294.2	356.7	404.0	449.7
17.5°	220.3	224.9	231.0	236.3	243.9	253.1	264.5	316.3	439.1	517.6	595.3
20°	206.6	212.7	219.5	227.9	237.1	247.7	264.5	362.1	558.0	670.8	773.7
22.5°	193.6	199.7	208.1	218.8	229.4	240.1	268.3	431.4	711.2	853.7	984.1
25°	182.9	190.6	198.9	208.1	220.3	232.5	277.5	529.0	895.6	1079.3	1171.6
27.5°	173.0	182.2	190.6	198.2	208.9	222.6	298.0	659.3	1113.6	1300.4	1372.8
30°	163.1	173.8	182.2	189.8	200.5	215.0	329.3	825.5	1356.0	1537.4	1545.1
32.5°	154.7	164.6	174.6	182.2	192.1	208.9	372.7	1019.9	1604.5	1779.8	1708.2
35°	145.6	157.0	166.2	174.6	185.2	203.5	423.0	1229.5	1855.3	2002.4	1870.5
37.5°	136.4	149.4	160.8	166.9	177.6	198.2	459.6	1448.3	2111.4	2219.7	2013.1
40°	128.1	142.5	155.5	161.6	166.9	191.3	465.0	1672.4	2371.3	2433.8	2147.2
42.5°	118.9	134.9	146.4	154.7	159.3	186.7	433.0	1861.4	2589.3	2647.3	2322.6
45°	109.0	128.1	137.2	143.3	152.4	189.8	391.8	2007.8	2838.6	2938.5	2611.5
47.5°	99.1	120.4	128.1	132.6	144.8	208.1	376.5	2105.3	3249.4	3456.8	3098.5
50°	89.9	113.6	122.0	121.2	143.3	231.7	393.3	2179.3	3866.9	4110.8	3766.3
52.5°	80.0	106.0	115.9	112.8	154.7	250.0	426.9	2238.0	4341.7	4877.6	4663.4
55°	71.7	97.6	106.7	106.0	176.1	263.7	452.8	1928.5	4538.4	5590.3	5674.1
57.5°	65.6	88.4	96.0	109.0	189.8	263.7	523.7	1369.0	4542.2	6114.7	7015.7
60°	60.2	80.0	85.4	119.7	184.5	250.0	518.3	838.5	4186.2	6078.9	7729.2
62.5°	55.6	72.4	79.3	122.7	163.1	247.7	468.0	519.9	3570.4	5616.2	7211.6
65°	51.8	66.3	76.2	112.8	147.9	265.3	315.6	373.5	2895.8	5088.7	6617.8
67.5°	48.0	61.0	80.8	92.2	134.2	237.1	227.9	265.3	2273.0	4510.2	6072.8
70°	45.0	57.9	85.4	75.5	117.4	185.2	161.6	201.2	1740.2	3763.2	5305.2
72.5°	42.7	54.1	71.7	59.5	95.3	143.3	112.8	146.4	1137.3	2937.7	4325.0
75°	40.4	49.5	52.6	48.0	70.9	93.8	85.4	98.3	677.6	2147.2	3281.5
77.5°	39.6	46.5	42.7	38.9	48.0	55.6	64.8	66.3	330.8	1074.0	1719.6
80°	35.1	41.9	36.6	32.0	32.8	36.6	48.0	44.2	75.5	272.9	458.9
82.5°	27.4	32.8	30.5	26.7	26.7	26.7	32.0	29.7	24.4	122.7	207.3
85°	19.1	22.9	22.9	21.3	20.6	20.6	19.8	19.1	6.9	7.6	11.4
87.5°	13.0	16.0	16.8	16.0	13.7	12.2	10.7	9.1	3.0	0.0	1.5
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°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
2.5°	353.7	356.0	356.0	352.9	350.6	344.5	338.4	332.3	330.8	330.1
5°	353.7	362.8	367.4	366.6	361.3	351.4	338.4	324.7	320.9	319.4
7.5°	348.3	365.9	379.6	381.9	372.0	354.4	330.8	310.2	304.9	302.6
10°	360.5	394.8	422.3	426.1	414.7	380.4	342.2	307.2	298.8	293.5
12.5°	426.1	482.5	516.0	532.0	509.9	466.5	403.2	340.7	321.7	313.3
15°	558.7	638.8	702.8	702.8	682.2	605.2	525.2	423.8	397.9	375.0
17.5°	728.7	829.3	885.7	879.6	848.4	794.3	698.2	552.6	500.0	476.4
20°	922.3	982.5	995.5	991.7	978.0	946.7	880.4	724.1	653.2	616.7
22.5°	1090.0	1074.0	1054.9	1039.7	1035.9	1045.0	1035.9	915.5	859.8	795.0
25°	1203.6	1112.9	1055.7	1028.3	1041.2	1093.8	1151.0	1106.0	1061.8	994.7
27.5°	1265.3	1108.3	1026.0	997.8	1019.9	1094.6	1218.8	1295.1	1249.3	1217.3
30°	1298.9	1104.5	1006.9	979.5	1013.0	1106.8	1266.1	1471.9	1473.4	1422.3
32.5°	1346.9	1128.9	1010.7	985.6	1030.6	1143.4	1325.5	1651.8	1696.0	1668.6
35°	1401.0	1166.2	1028.3	1005.4	1061.0	1192.2	1391.9	1833.2	1925.4	1916.3
37.5°	1452.1	1208.2	1069.4	1047.3	1107.5	1234.1	1455.9	2011.6	2139.6	2171.6
40°	1505.4	1266.9	1196.0	1217.3	1250.8	1300.4	1513.1	2166.3	2375.2	2423.2
42.5°	1631.2	1470.4	1578.6	1619.0	1623.6	1521.4	1638.1	2364.5	2606.9	2664.0
45°	1911.7	1832.4	2142.7	2199.8	2170.1	1860.6	1939.2	2650.3	2930.8	2959.8
47.5°	2266.2	2302.7	2914.8	3112.2	2933.9	2260.8	2304.3	3251.7	3523.9	3513.2
50°	2679.3	2852.3	3791.4	4257.1	3830.3	2780.7	2725.0	3991.1	4321.2	4288.4
52.5°	3167.9	3491.1	4844.8	5506.5	5102.5	3365.3	3342.4	4970.6	5171.8	5067.4
55°	3783.0	4107.7	6056.8	6981.4	6406.7	4078.8	4157.3	6106.3	6145.2	5813.6
57.5°	4700.8	4911.9	7485.2	8672.8	7768.0	5048.3	5617.7	7617.9	7152.9	6524.8
60°	6367.0	5946.3	8865.7	10403.1	9216.3	6412.0	7543.9	8513.5	7488.3	6622.4
62.5°	6947.1	6824.4	9730.1	11134.9	10190.4	7531.7	8044.7	8005.9	7053.8	6253.5
65°	6068.2	6605.6	9575.3	10748.4	10065.4	7347.3	7219.2	7445.6	6564.5	5693.2
67.5°	5605.5	6091.9	8989.2	9682.0	9372.6	6721.5	6434.9	6373.1	5511.0	4817.4
70°	5139.1	5620.8	8139.2	8225.4	8081.3	5701.6	5325.0	4911.1	4119.2	3516.2
72.5°	4578.0	4843.3	6960.1	6551.5	6388.4	4478.2	4398.9	3698.4	3087.9	2570.3
75°	3992.6	3915.7	5426.4	4496.5	4618.4	3484.2	3715.2	2715.9	2262.3	1850.0
77.5°	2904.2	2847.0	3634.4	2731.1	3024.6	2282.2	2050.4	1083.9	1032.1	890.3
80°	1620.5	1953.6	1962.8	1530.6	1909.4	1487.9	513.0	35.8	22.9	33.5
82.5°	753.1	840.0	1064.1	709.6	1089.2	737.1	106.0	0.0	0.0	0.0
85°	243.9	356.7	298.8	104.4	263.7	249.3	17.5	0.0	0.0	0.0
87.5°	14.5	29.7	7.6	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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