

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: P631881

Luminaire Tested: GWS-SA2B-750-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631881  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

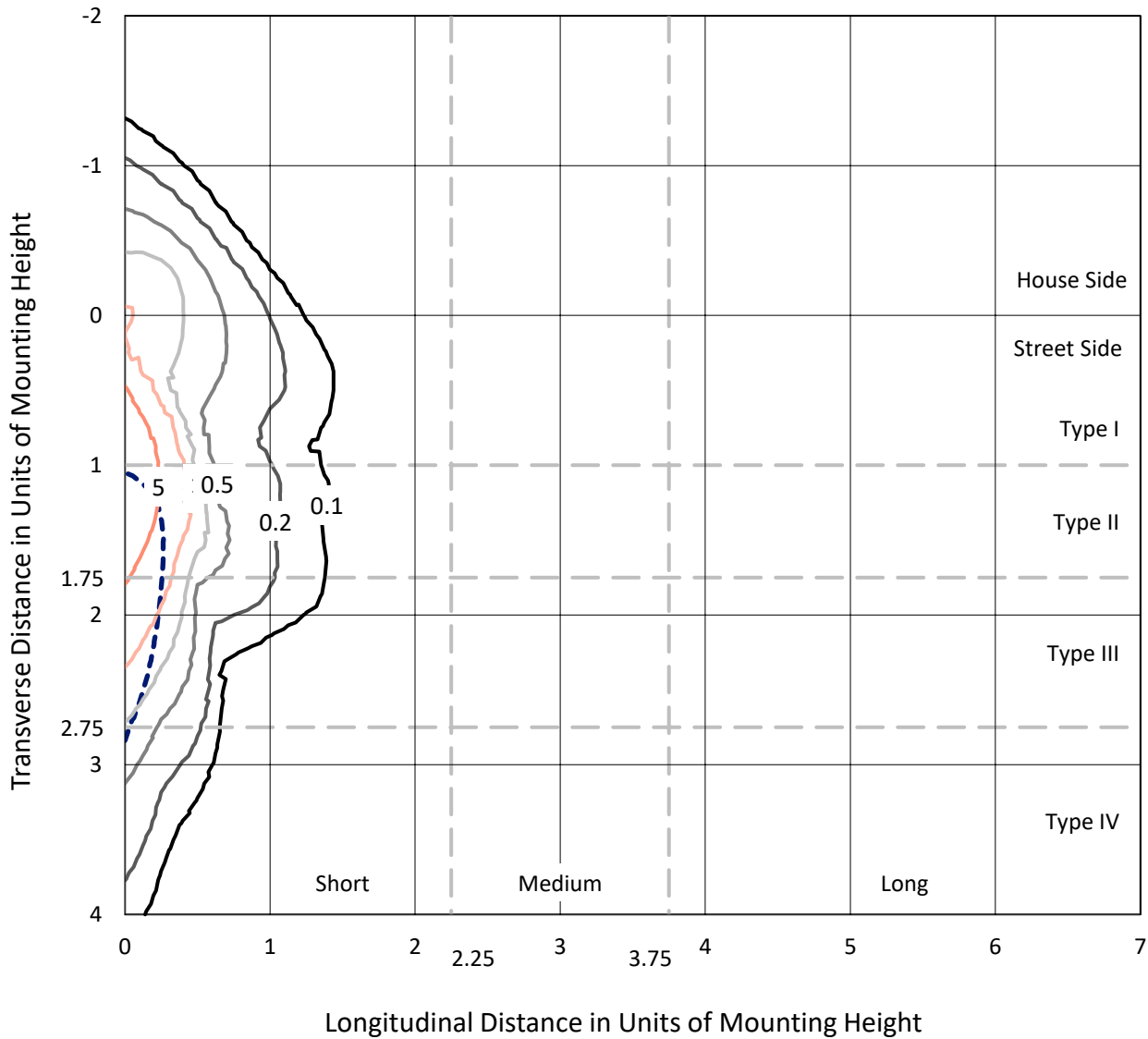
Lumens per Lamp: N/A  
Luminaire Lumens: 4274.2 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

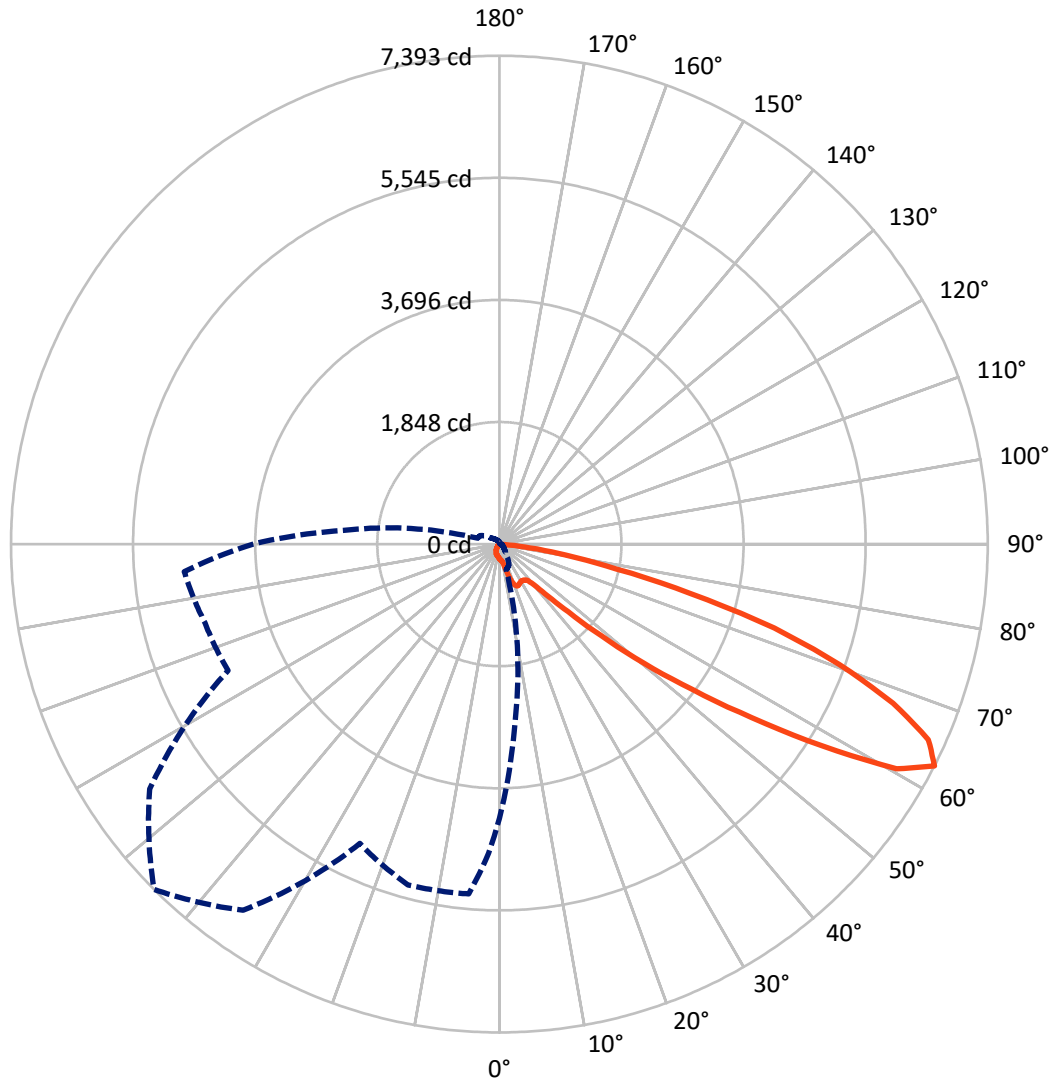
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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	496.6	0.0	496.6
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	3777.6	0.0	3777.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	4274.2	0.0	4274.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.1	0.4
10°-20°	65.6	1.5
20°-30°	148.2	3.5
30°-40°	255.3	6.0
40°-50°	481.7	11.3
50°-60°	1075.4	25.2
60°-70°	1438.4	33.7
70°-80°	721.3	16.9
80°-90°	69.1	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°	4274.2	100.0
0°-180°	4274.2	100.0

**Coefficient of Utilization**



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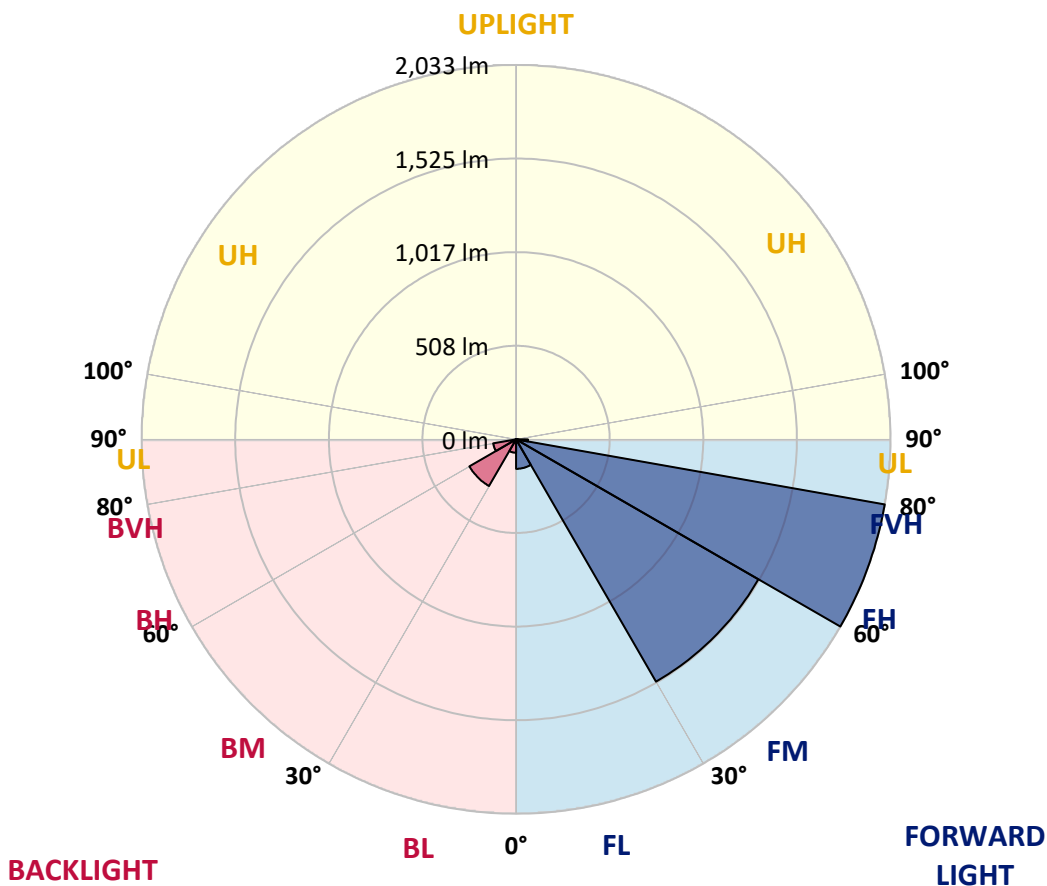
CATALOG NUMBER: GWS-SA2B-750-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.1	3.7			
FM (30°-60°)	1519.6	35.6			
FH (60°-80°)	2033.4	47.6			G2/5000
FVH (80°-90°)	64.5	1.5			G1/100
BL (0°-30°)	72.9	1.7	B0/110		
BM (30°-60°)	292.8	6.9	B1/1000		
BH (60°-80°)	126.3	3.0	B1/500		G1/500
BVH (80°-90°)	4.6	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°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	219.1	218.6	217.6	214.6	212.1	210.5	207.5	207.5	207.0	206.0	204.0
5°	212.1	210.0	208.0	202.4	196.4	192.8	188.8	188.3	188.3	187.3	186.7
7.5°	200.9	198.9	196.4	187.3	181.7	178.1	174.6	174.1	172.6	172.6	172.6
10°	194.8	191.8	187.8	177.6	172.1	169.0	166.5	165.0	164.0	162.5	161.9
12.5°	208.0	202.4	193.8	175.6	168.0	164.0	160.9	159.9	156.9	154.9	153.3
15°	249.0	235.3	218.1	180.2	166.5	160.4	156.4	154.4	151.8	148.3	145.8
17.5°	316.3	296.6	267.7	194.8	165.0	157.4	152.3	148.8	145.2	141.2	138.2
20°	409.4	380.1	345.7	221.7	165.0	153.9	147.8	143.2	138.2	133.6	130.1
22.5°	527.8	498.5	439.8	267.2	167.0	149.3	142.2	136.1	130.1	126.0	122.0
25°	660.4	618.9	564.3	322.4	172.6	143.2	135.6	129.6	124.0	118.9	114.4
27.5°	808.2	763.2	690.3	400.8	184.7	137.1	128.5	123.0	117.9	112.9	106.8
30°	944.4	917.5	843.1	495.0	204.5	133.1	123.0	117.9	112.9	106.3	100.7
32.5°	1107.8	1060.3	999.0	602.2	230.8	129.1	118.4	111.3	107.3	101.2	95.1
35°	1272.3	1231.8	1151.3	734.3	260.1	125.0	112.9	106.3	102.7	95.7	89.1
37.5°	1441.8	1432.7	1353.3	880.6	289.0	120.4	106.3	102.2	98.7	90.6	83.0
40°	1608.9	1592.2	1518.8	1047.6	306.7	115.4	100.7	98.2	94.1	85.0	76.4
42.5°	1768.8	1756.1	1684.8	1207.5	304.2	110.8	95.1	92.1	89.1	80.0	69.3
45°	1965.1	1944.4	1854.3	1325.9	278.3	115.9	89.6	84.5	84.0	75.4	62.2
47.5°	2332.6	2264.2	2111.4	1417.0	252.5	129.1	83.5	77.4	81.0	70.9	55.2
50°	2847.2	2766.8	2545.6	1487.9	252.0	146.3	82.5	70.9	78.4	67.3	49.1
52.5°	3364.5	3222.8	2954.0	1525.9	270.8	158.9	91.6	64.3	75.4	63.8	44.5
55°	3859.9	3565.9	3125.1	1400.3	285.4	172.6	108.3	60.7	69.8	59.7	42.0
57.5°	4332.1	3841.7	3199.5	1107.8	334.5	178.1	118.4	62.2	61.7	54.7	40.0
60°	4396.9	3828.5	3049.2	644.2	368.9	168.5	114.4	69.3	54.2	48.6	36.4
62.5°	4151.9	3574.0	2706.6	401.8	342.6	165.0	101.7	78.9	49.1	43.0	31.9
65°	3780.0	3174.7	2256.6	259.1	259.6	183.2	89.1	77.4	46.1	38.0	27.3
67.5°	3198.5	2657.0	1777.9	173.6	146.8	156.4	77.9	53.1	45.0	32.4	21.3
70°	2334.6	1891.2	1157.4	115.9	87.6	125.0	65.3	38.0	42.5	26.8	15.2
72.5°	1706.5	1270.8	646.3	75.9	49.6	72.9	48.1	27.3	32.9	19.7	10.6
75°	1228.3	874.5	368.9	48.6	32.9	40.0	31.4	18.7	21.3	15.7	9.6
77.5°	591.1	426.1	167.5	26.8	22.3	20.2	16.7	11.6	13.2	14.2	8.6
80°	22.3	16.7	12.7	13.2	14.2	9.1	7.6	6.1	7.6	9.6	4.6
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°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	205.5	204.5	205.5	206.5	207.5	208.5	207.0	208.0	209.0	206.5	207.5
5°	189.3	188.8	191.8	193.3	195.3	196.4	195.3	195.3	194.8	191.8	191.8
7.5°	175.1	175.6	178.1	181.7	184.2	185.7	184.7	184.2	182.7	178.1	178.1
10°	164.5	164.5	168.5	171.6	175.1	176.6	175.6	174.1	172.6	168.0	167.5
12.5°	155.9	155.9	158.9	164.0	168.0	170.0	169.5	167.5	165.0	160.4	159.9
15°	147.8	147.3	151.8	156.4	161.9	164.5	163.5	161.9	157.4	153.3	152.3
17.5°	139.7	139.2	143.2	149.3	155.4	158.9	158.4	154.9	150.8	145.8	144.7
20°	131.6	130.6	135.6	141.7	147.8	151.3	150.3	147.3	142.2	137.1	136.1
22.5°	123.5	123.0	126.5	131.6	137.1	140.2	139.7	137.1	132.1	127.5	127.5
25°	114.4	114.4	116.9	120.4	124.5	126.0	126.5	125.5	122.5	119.9	119.9
27.5°	106.8	105.3	106.3	107.3	109.3	111.8	111.8	112.9	113.4	112.4	112.9
30°	100.7	98.2	96.7	94.6	93.6	94.6	95.7	99.2	102.7	104.8	105.8
32.5°	93.6	90.6	86.5	81.0	77.4	76.4	79.5	86.0	92.6	97.2	99.7
35°	86.5	82.5	74.9	66.8	62.2	60.7	64.3	71.9	81.5	89.6	93.1
37.5°	79.5	73.9	63.3	53.6	48.6	47.6	51.1	59.2	70.3	81.5	86.0
40°	71.4	64.8	52.1	42.0	38.0	36.9	40.0	48.1	59.7	72.4	79.5
42.5°	63.3	55.2	42.0	33.4	29.4	29.4	33.4	39.5	50.1	63.8	72.4
45°	55.2	46.6	34.4	26.8	24.3	24.8	27.3	33.4	42.0	56.2	64.3
47.5°	47.6	40.0	28.3	22.3	20.2	20.7	23.8	28.8	35.9	48.6	57.2
50°	41.0	33.9	24.8	18.7	17.2	18.2	21.3	25.8	31.9	43.0	50.1
52.5°	36.9	30.4	22.8	16.2	15.2	16.2	19.2	23.3	28.8	38.0	45.0
55°	34.9	29.9	22.8	14.7	13.2	14.2	17.2	21.3	25.8	34.4	40.5
57.5°	34.4	30.9	24.3	13.2	11.1	12.1	15.2	19.2	23.8	31.4	36.4
60°	32.4	29.4	23.8	10.6	8.6	10.1	12.7	16.7	21.8	29.4	33.9
62.5°	28.3	25.8	20.7	8.6	6.6	7.6	10.6	14.7	19.7	26.8	31.9
65°	23.3	20.7	16.2	5.6	4.0	5.1	8.1	12.7	17.2	24.3	28.8
67.5°	17.2	14.7	11.1	3.5	2.0	3.5	6.6	10.6	15.7	21.8	26.3
70°	10.6	8.6	6.1	2.0	1.5	3.0	6.1	10.1	14.2	20.2	24.8
72.5°	6.1	4.0	2.5	1.0	1.5	3.0	6.1	10.1	13.7	19.2	23.3
75°	4.6	2.5	1.0	0.5	1.0	2.5	5.6	9.1	13.2	18.2	22.3
77.5°	3.0	1.5	0.5	0.0	0.5	2.0	5.1	8.6	12.1	17.2	21.3
80°	0.5	0.0	0.0	0.0	0.0	1.5	4.6	7.6	11.1	15.2	18.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	3.5	6.6	9.6	12.7	15.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.1	7.6	9.6	10.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	6.1	7.1
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°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	207.0	210.0	210.0	212.1	214.6	219.1	221.7	225.2	227.7	230.3	231.3
5°	191.3	191.8	192.3	193.3	196.4	201.4	206.0	211.5	218.1	223.2	226.2
7.5°	178.1	178.1	178.1	179.7	182.7	186.2	190.8	198.4	206.0	212.1	217.1
10°	167.0	168.5	169.0	171.6	175.1	179.7	184.7	191.3	199.9	208.0	217.1
12.5°	159.9	161.4	164.0	166.5	170.0	175.1	180.7	189.3	207.0	223.7	242.9
15°	153.3	155.4	158.4	161.9	166.0	171.6	177.6	195.3	236.8	268.2	298.6
17.5°	146.3	149.3	153.3	156.9	161.9	168.0	175.6	210.0	291.5	343.6	395.3
20°	137.1	141.2	145.8	151.3	157.4	164.5	175.6	240.4	370.5	445.4	513.7
22.5°	128.5	132.6	138.2	145.2	152.3	159.4	178.1	286.4	472.2	566.8	653.4
25°	121.5	126.5	132.1	138.2	146.3	154.4	184.2	351.2	594.7	716.6	777.9
27.5°	114.9	121.0	126.5	131.6	138.7	147.8	197.9	437.8	739.4	863.4	911.5
30°	108.3	115.4	121.0	126.0	133.1	142.7	218.6	548.1	900.3	1020.8	1025.8
32.5°	102.7	109.3	115.9	121.0	127.5	138.7	247.5	677.1	1065.3	1181.7	1134.1
35°	96.7	104.3	110.3	115.9	123.0	135.1	280.9	816.3	1231.8	1329.5	1241.9
37.5°	90.6	99.2	106.8	110.8	117.9	131.6	305.2	961.6	1401.9	1473.7	1336.6
40°	85.0	94.6	103.2	107.3	110.8	127.0	308.7	1110.4	1574.4	1615.9	1425.6
42.5°	78.9	89.6	97.2	102.7	105.8	124.0	287.5	1235.9	1719.2	1757.6	1542.0
45°	72.4	85.0	91.1	95.1	101.2	126.0	260.1	1333.0	1884.7	1951.0	1733.9
47.5°	65.8	80.0	85.0	88.1	96.2	138.2	250.0	1397.8	2157.4	2295.1	2057.2
50°	59.7	75.4	81.0	80.5	95.1	153.9	261.1	1446.9	2567.4	2729.3	2500.6
52.5°	53.1	70.3	76.9	74.9	102.7	166.0	283.4	1485.9	2882.7	3238.5	3096.2
55°	47.6	64.8	70.9	70.3	116.9	175.1	300.6	1280.4	3013.2	3711.6	3767.3
57.5°	43.5	58.7	63.8	72.4	126.0	175.1	347.7	908.9	3015.8	4059.8	4658.0
60°	40.0	53.1	56.7	79.5	122.5	166.0	344.1	556.7	2779.4	4036.0	5131.7
62.5°	36.9	48.1	52.6	81.5	108.3	164.5	310.7	345.2	2370.5	3728.8	4788.1
65°	34.4	44.0	50.6	74.9	98.2	176.1	209.5	248.0	1922.6	3378.6	4393.8
67.5°	31.9	40.5	53.6	61.2	89.1	157.4	151.3	176.1	1509.2	2994.5	4032.0
70°	29.9	38.5	56.7	50.1	77.9	123.0	107.3	133.6	1155.4	2498.6	3522.4
72.5°	28.3	35.9	47.6	39.5	63.3	95.1	74.9	97.2	755.1	1950.5	2871.5
75°	26.8	32.9	34.9	31.9	47.1	62.2	56.7	65.3	449.9	1425.6	2178.7
77.5°	26.3	30.9	28.3	25.8	31.9	36.9	43.0	44.0	219.6	713.1	1141.7
80°	23.3	27.8	24.3	21.3	21.8	24.3	31.9	29.4	50.1	181.2	304.7
82.5°	18.2	21.8	20.2	17.7	17.7	17.7	21.3	19.7	16.2	81.5	137.7
85°	12.7	15.2	15.2	14.2	13.7	13.7	13.2	12.7	4.6	5.1	7.6
87.5°	8.6	10.6	11.1	10.6	9.1	8.1	7.1	6.1	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°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	234.8	236.3	236.3	234.3	232.8	228.8	224.7	220.7	219.6	219.1
5°	234.8	240.9	243.9	243.4	239.9	233.3	224.7	215.6	213.1	212.1
7.5°	231.3	242.9	252.0	253.5	247.0	235.3	219.6	206.0	202.4	200.9
10°	239.4	262.2	280.4	282.9	275.3	252.5	227.2	204.0	198.4	194.8
12.5°	282.9	320.4	342.6	353.2	338.6	309.7	267.7	226.2	213.6	208.0
15°	371.0	424.1	466.6	466.6	452.9	401.8	348.7	281.4	264.2	249.0
17.5°	483.8	550.6	588.1	584.0	563.3	527.3	463.6	366.9	332.0	316.3
20°	612.4	652.3	660.9	658.4	649.3	628.6	584.5	480.8	433.7	409.4
22.5°	723.7	713.1	700.4	690.3	687.8	693.8	687.8	607.8	570.9	527.8
25°	799.1	738.9	700.9	682.7	691.3	726.2	764.2	734.3	705.0	660.4
27.5°	840.1	735.9	681.2	662.5	677.1	726.7	809.2	859.8	829.5	808.2
30°	862.4	733.3	668.5	650.3	672.6	734.8	840.6	977.3	978.3	944.4
32.5°	894.3	749.5	671.1	654.4	684.2	759.1	880.1	1096.7	1126.0	1107.8
35°	930.2	774.3	682.7	667.5	704.5	791.5	924.1	1217.1	1278.4	1272.3
37.5°	964.1	802.1	710.0	695.4	735.3	819.4	966.6	1335.6	1420.6	1441.8
40°	999.5	841.1	794.1	808.2	830.5	863.4	1004.6	1438.3	1577.0	1608.9
42.5°	1083.0	976.2	1048.1	1074.9	1078.0	1010.1	1087.6	1569.9	1730.8	1768.8
45°	1269.3	1216.6	1422.6	1460.6	1440.8	1235.4	1287.5	1759.7	1945.9	1965.1
47.5°	1504.6	1528.9	1935.3	2066.4	1947.9	1501.1	1529.9	2159.0	2339.6	2332.6
50°	1778.9	1893.8	2517.3	2826.5	2543.1	1846.2	1809.3	2649.9	2869.0	2847.2
52.5°	2103.3	2317.9	3216.7	3656.0	3387.7	2234.4	2219.2	3300.2	3433.8	3364.5
55°	2511.7	2727.3	4021.4	4635.3	4253.7	2708.1	2760.2	4054.3	4080.1	3859.9
57.5°	3121.0	3261.2	4969.8	5758.3	5157.5	3351.8	3729.9	5057.8	4749.1	4332.1
60°	4227.3	3948.0	5886.3	6907.1	6119.1	4257.2	5008.7	5652.5	4971.8	4396.9
62.5°	4612.5	4531.0	6460.2	7392.9	6765.9	5000.6	5341.2	5315.4	4683.3	4151.9
65°	4029.0	4385.8	6357.5	7136.3	6682.9	4878.2	4793.2	4943.5	4358.4	3780.0
67.5°	3721.8	4044.6	5968.3	6428.3	6222.8	4462.7	4272.4	4231.4	3659.0	3198.5
70°	3412.0	3731.9	5404.0	5461.2	5365.5	3785.5	3535.5	3260.7	2734.9	2334.6
72.5°	3039.6	3215.7	4621.1	4349.8	4241.5	2973.3	2920.6	2455.5	2050.2	1706.5
75°	2650.9	2599.8	3602.8	2985.4	3066.4	2313.3	2466.7	1803.2	1502.1	1228.3
77.5°	1928.2	1890.2	2413.0	1813.3	2008.2	1515.2	1361.4	719.7	685.2	591.1
80°	1075.9	1297.1	1303.2	1016.2	1267.7	987.9	340.6	23.8	15.2	22.3
82.5°	500.0	557.7	706.5	471.2	723.2	489.4	70.3	0.0	0.0	0.0
85°	161.9	236.8	198.4	69.3	175.1	165.5	11.6	0.0	0.0	0.0
87.5°	9.6	19.7	5.1	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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