

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: P636831

Luminaire Tested: GWS-SA4B-750-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636831  
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-SA4B-750-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

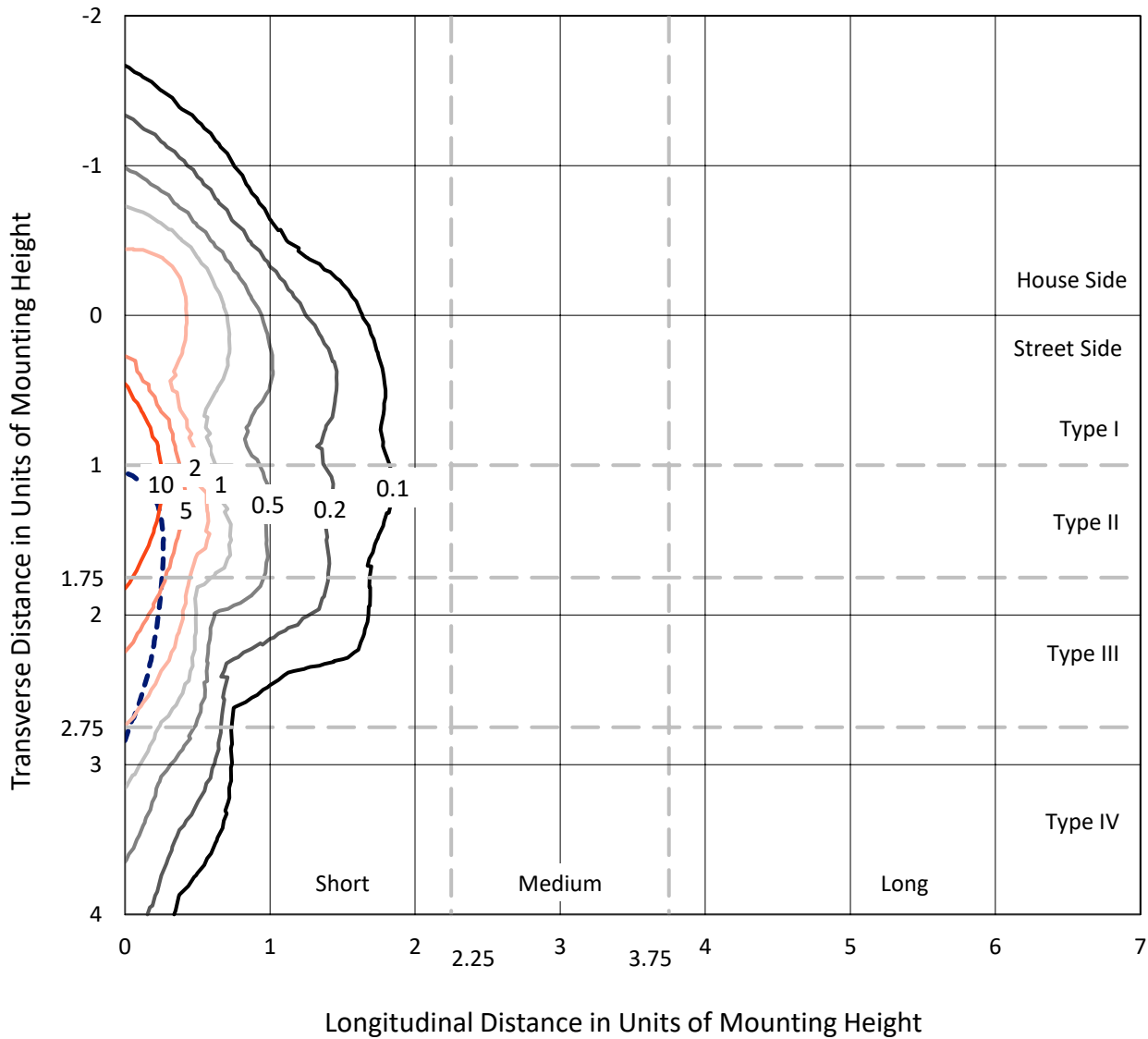
Lumens per Lamp: N/A  
Luminaire Lumens: 8964.6 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

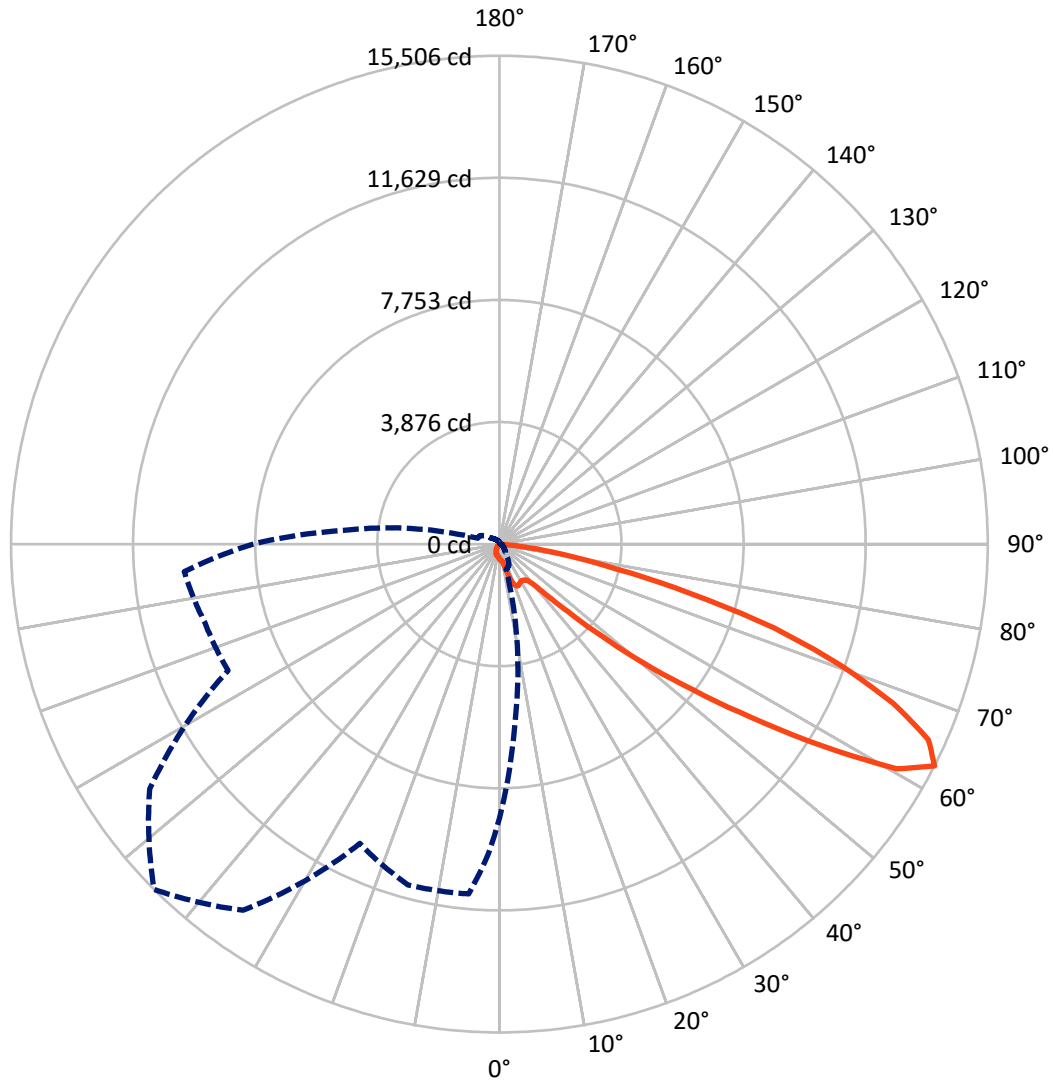
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 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	1041.6	0.0	1041.6
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	7923.0	0.0	7923.0
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	8964.6	0.0	8964.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	0.4
10°-20°	137.6	1.5
20°-30°	310.9	3.5
30°-40°	535.5	6.0
40°-50°	1010.2	11.3
50°-60°	2255.6	25.2
60°-70°	3016.8	33.7
70°-80°	1512.8	16.9
80°-90°	145.0	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°	8964.6	100.0
0°-180°	8964.6	100.0

**Coefficient of Utilization**



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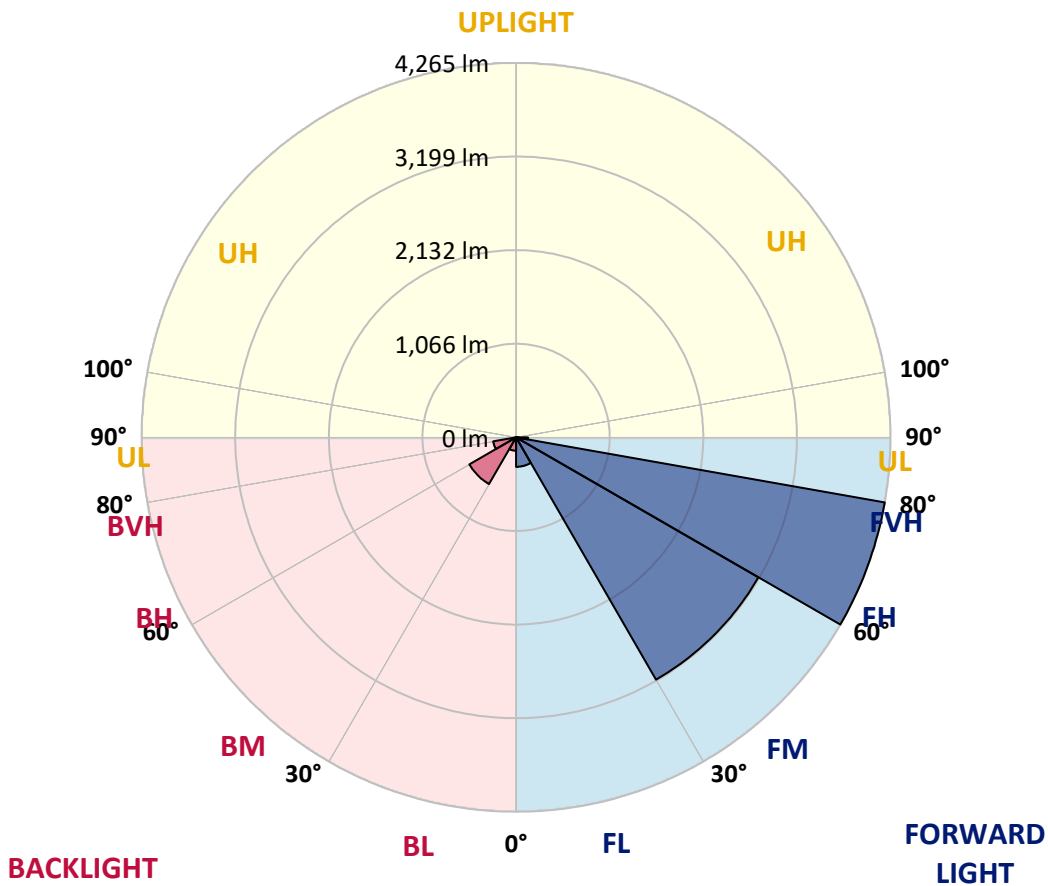
CATALOG NUMBER: GWS-SA4B-750-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.7	3.7			
FM (30°-60°)	3187.2	35.6			
FH (60°-80°)	4264.8	47.6			G2/5000
FVH (80°-90°)	135.4	1.5			G2/225
BL (0°-30°)	152.9	1.7	B1/500		
BM (30°-60°)	614.2	6.9	B1/1000		
BH (60°-80°)	264.9	3.0	B1/500		G1/500
BVH (80°-90°)	9.6	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°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	459.6	458.5	456.4	450.1	444.7	441.6	435.2	435.2	434.1	432.0	427.8
5°	444.7	440.5	436.3	424.6	411.8	404.4	395.9	394.9	394.9	392.7	391.7
7.5°	421.4	417.2	411.8	392.7	381.1	373.6	366.2	365.1	362.0	362.0	362.0
10°	408.7	402.3	393.8	372.6	360.9	354.5	349.2	346.0	343.9	340.7	339.7
12.5°	436.3	424.6	406.5	368.3	352.4	343.9	337.5	335.4	329.1	324.8	321.6
15°	522.2	493.6	457.5	377.9	349.2	336.5	328.0	323.7	318.4	311.0	305.7
17.5°	663.4	622.0	561.5	408.7	346.0	330.1	319.5	312.1	304.6	296.1	289.8
20°	858.7	797.2	725.0	464.9	346.0	322.7	309.9	300.4	289.8	280.2	272.8
22.5°	1107.1	1045.5	922.4	560.4	350.3	313.1	298.3	285.5	272.8	264.3	255.8
25°	1385.2	1298.2	1183.5	676.1	362.0	300.4	284.5	271.7	260.1	249.4	239.9
27.5°	1695.1	1600.7	1447.8	840.7	387.4	287.7	269.6	257.9	247.3	236.7	224.0
30°	1980.7	1924.4	1768.4	1038.1	428.8	279.2	257.9	247.3	236.7	222.9	211.2
32.5°	2323.5	2223.7	2095.3	1263.1	484.0	270.7	248.4	233.5	225.0	212.3	199.6
35°	2668.5	2583.6	2414.8	1540.2	545.6	262.2	236.7	222.9	215.5	200.6	186.8
37.5°	3024.1	3005.0	2838.3	1846.9	606.1	252.6	222.9	214.4	207.0	190.0	174.1
40°	3374.4	3339.3	3185.4	2197.2	643.2	242.0	211.2	205.9	197.4	178.3	160.3
42.5°	3709.8	3683.2	3533.6	2532.6	637.9	232.5	199.6	193.2	186.8	167.7	145.4
45°	4121.6	4078.1	3889.2	2781.0	583.8	243.1	187.9	177.3	176.2	158.2	130.6
47.5°	4892.2	4748.9	4428.4	2972.1	529.7	270.7	175.1	162.4	169.8	148.6	115.7
50°	5971.7	5803.0	5339.1	3120.7	528.6	306.8	173.0	148.6	164.5	141.2	103.0
52.5°	7056.5	6759.3	6195.7	3200.3	567.9	333.3	192.1	134.8	158.2	133.7	93.4
55°	8095.7	7479.0	6554.5	2937.0	598.7	362.0	227.2	127.4	146.5	125.3	88.1
57.5°	9086.0	8057.5	6710.5	2323.5	701.6	373.6	248.4	130.6	129.5	114.6	83.9
60°	9221.9	8029.9	6395.3	1351.2	773.8	353.5	239.9	145.4	113.6	101.9	76.4
62.5°	8708.2	7496.0	5676.7	842.8	718.6	346.0	213.4	165.6	103.0	90.2	66.9
65°	7928.0	6658.5	4733.0	543.5	544.5	384.2	186.8	162.4	96.6	79.6	57.3
67.5°	6708.4	5572.6	3728.9	364.1	307.8	328.0	163.5	111.5	94.5	67.9	44.6
70°	4896.5	3966.7	2427.5	243.1	183.6	262.2	136.9	79.6	89.2	56.3	31.8
72.5°	3579.2	2665.3	1355.5	159.2	104.0	152.8	100.8	57.3	69.0	41.4	22.3
75°	2576.1	1834.2	773.8	101.9	69.0	83.9	65.8	39.3	44.6	32.9	20.2
77.5°	1239.8	893.7	351.3	56.3	46.7	42.5	35.0	24.4	27.6	29.7	18.0
80°	46.7	35.0	26.5	27.6	29.7	19.1	15.9	12.7	15.9	20.2	9.6
82.5°	0.0	0.0	0.0	3.2	4.2	5.3	6.4	5.3	6.4	7.4	1.1
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°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	431.0	428.8	431.0	433.1	435.2	437.3	434.1	436.3	438.4	433.1	435.2
5°	397.0	395.9	402.3	405.5	409.7	411.8	409.7	409.7	408.7	402.3	402.3
7.5°	367.3	368.3	373.6	381.1	386.4	389.6	387.4	386.4	383.2	373.6	373.6
10°	345.0	345.0	353.5	359.8	367.3	370.4	368.3	365.1	362.0	352.4	351.3
12.5°	326.9	326.9	333.3	343.9	352.4	356.6	355.6	351.3	346.0	336.5	335.4
15°	309.9	308.9	318.4	328.0	339.7	345.0	342.8	339.7	330.1	321.6	319.5
17.5°	293.0	291.9	300.4	313.1	325.9	333.3	332.2	324.8	316.3	305.7	303.6
20°	276.0	273.9	284.5	297.2	309.9	317.4	315.3	308.9	298.3	287.7	285.5
22.5°	259.0	257.9	265.4	276.0	287.7	294.0	293.0	287.7	277.0	267.5	267.5
25°	239.9	239.9	245.2	252.6	261.1	264.3	265.4	263.2	256.9	251.6	251.6
27.5°	224.0	220.8	222.9	225.0	229.3	234.6	234.6	236.7	237.8	235.6	236.7
30°	211.2	205.9	202.7	198.5	196.4	198.5	200.6	208.0	215.5	219.7	221.8
32.5°	196.4	190.0	181.5	169.8	162.4	160.3	166.6	180.4	194.2	203.8	209.1
35°	181.5	173.0	157.1	140.1	130.6	127.4	134.8	150.7	170.9	187.9	195.3
37.5°	166.6	155.0	132.7	112.5	101.9	99.8	107.2	124.2	147.5	170.9	180.4
40°	149.7	135.9	109.3	88.1	79.6	77.5	83.9	100.8	125.3	151.8	166.6
42.5°	132.7	115.7	88.1	70.1	61.6	61.6	70.1	82.8	105.1	133.7	151.8
45°	115.7	97.7	72.2	56.3	50.9	52.0	57.3	70.1	88.1	117.8	134.8
47.5°	99.8	83.9	59.4	46.7	42.5	43.5	49.9	60.5	75.4	101.9	119.9
50°	86.0	71.1	52.0	39.3	36.1	38.2	44.6	54.1	66.9	90.2	105.1
52.5°	77.5	63.7	47.8	34.0	31.8	34.0	40.3	48.8	60.5	79.6	94.5
55°	73.2	62.6	47.8	30.8	27.6	29.7	36.1	44.6	54.1	72.2	84.9
57.5°	72.2	64.7	50.9	27.6	23.4	25.5	31.8	40.3	49.9	65.8	76.4
60°	67.9	61.6	49.9	22.3	18.0	21.2	26.5	35.0	45.6	61.6	71.1
62.5°	59.4	54.1	43.5	18.0	13.8	15.9	22.3	30.8	41.4	56.3	66.9
65°	48.8	43.5	34.0	11.7	8.5	10.6	17.0	26.5	36.1	50.9	60.5
67.5°	36.1	30.8	23.4	7.4	4.2	7.4	13.8	22.3	32.9	45.6	55.2
70°	22.3	18.0	12.7	4.2	3.2	6.4	12.7	21.2	29.7	42.5	52.0
72.5°	12.7	8.5	5.3	2.1	3.2	6.4	12.7	21.2	28.7	40.3	48.8
75°	9.6	5.3	2.1	1.1	2.1	5.3	11.7	19.1	27.6	38.2	46.7
77.5°	6.4	3.2	1.1	0.0	1.1	4.2	10.6	18.0	25.5	36.1	44.6
80°	1.1	0.0	0.0	0.0	0.0	3.2	9.6	15.9	23.4	31.8	39.3
82.5°	0.0	0.0	0.0	0.0	0.0	1.1	7.4	13.8	20.2	26.5	31.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.6	15.9	20.2	22.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6	12.7	14.9
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°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	434.1	440.5	440.5	444.7	450.1	459.6	464.9	472.3	477.7	483.0	485.1
5°	401.2	402.3	403.4	405.5	411.8	422.5	432.0	443.7	457.5	468.1	474.5
7.5°	373.6	373.6	373.6	376.8	383.2	390.6	400.2	416.1	432.0	444.7	455.4
10°	350.3	353.5	354.5	359.8	367.3	376.8	387.4	401.2	419.3	436.3	455.4
12.5°	335.4	338.6	343.9	349.2	356.6	367.3	378.9	397.0	434.1	469.2	509.5
15°	321.6	325.9	332.2	339.7	348.2	359.8	372.6	409.7	496.8	562.6	626.3
17.5°	306.8	313.1	321.6	329.1	339.7	352.4	368.3	440.5	611.4	720.7	829.0
20°	287.7	296.1	305.7	317.4	330.1	345.0	368.3	504.2	777.0	934.1	1077.4
22.5°	269.6	278.1	289.8	304.6	319.5	334.4	373.6	600.8	990.3	1188.8	1370.3
25°	254.7	265.4	277.0	289.8	306.8	323.7	386.4	736.6	1247.2	1503.0	1631.5
27.5°	241.0	253.7	265.4	276.0	290.8	309.9	415.0	918.2	1550.8	1810.8	1911.7
30°	227.2	242.0	253.7	264.3	279.2	299.3	458.5	1149.6	1888.3	2141.0	2151.6
32.5°	215.5	229.3	243.1	253.7	267.5	290.8	519.1	1420.2	2234.4	2478.5	2378.7
35°	202.7	218.7	231.4	243.1	257.9	283.4	589.1	1712.1	2583.6	2788.4	2604.8
37.5°	190.0	208.0	224.0	232.5	247.3	276.0	640.1	2016.8	2940.2	3091.0	2803.3
40°	178.3	198.5	216.5	225.0	232.5	266.4	647.5	2328.8	3302.2	3389.2	2990.1
42.5°	165.6	187.9	203.8	215.5	221.8	260.1	602.9	2592.1	3605.8	3686.4	3234.3
45°	151.8	178.3	191.1	199.6	212.3	264.3	545.6	2795.9	3952.9	4091.9	3636.5
47.5°	138.0	167.7	178.3	184.7	201.7	289.8	524.4	2931.7	4525.0	4813.7	4314.8
50°	125.3	158.2	169.8	168.8	199.6	322.7	547.7	3034.7	5384.8	5724.4	5244.6
52.5°	111.5	147.5	161.3	157.1	215.5	348.2	594.4	3116.4	6046.0	6792.2	6494.0
55°	99.8	135.9	148.6	147.5	245.2	367.3	630.5	2685.5	6319.9	7784.7	7901.5
57.5°	91.3	123.1	133.7	151.8	264.3	367.3	729.2	1906.4	6325.2	8515.0	9769.6
60°	83.9	111.5	118.9	166.6	256.9	348.2	721.8	1167.6	5829.5	8465.1	10763.1
62.5°	77.5	100.8	110.4	170.9	227.2	345.0	651.7	723.9	4971.9	7820.8	10042.4
65°	72.2	92.3	106.1	157.1	205.9	369.4	439.4	520.1	4032.5	7086.3	9215.5
67.5°	66.9	84.9	112.5	128.4	186.8	330.1	317.4	369.4	3165.3	6280.6	8456.6
70°	62.6	80.7	118.9	105.1	163.5	257.9	225.0	280.2	2423.3	5240.4	7387.7
72.5°	59.4	75.4	99.8	82.8	132.7	199.6	157.1	203.8	1583.7	4090.8	6022.7
75°	56.3	69.0	73.2	66.9	98.7	130.6	118.9	136.9	943.6	2990.1	4569.6
77.5°	55.2	64.7	59.4	54.1	66.9	77.5	90.2	92.3	460.7	1495.6	2394.6
80°	48.8	58.4	50.9	44.6	45.6	50.9	66.9	61.6	105.1	380.0	639.0
82.5°	38.2	45.6	42.5	37.2	37.2	37.2	44.6	41.4	34.0	170.9	288.7
85°	26.5	31.8	31.8	29.7	28.7	28.7	27.6	26.5	9.6	10.6	15.9
87.5°	18.0	22.3	23.4	22.3	19.1	17.0	14.9	12.7	4.2	0.0	2.1
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	492.5	495.7	495.7	491.5	488.3	479.8	471.3	462.8	460.7	459.6
5°	492.5	505.3	511.6	510.6	503.1	489.3	471.3	452.2	446.9	444.7
7.5°	485.1	509.5	528.6	531.8	518.0	493.6	460.7	432.0	424.6	421.4
10°	502.1	549.8	588.0	593.4	577.4	529.7	476.6	427.8	416.1	408.7
12.5°	593.4	671.9	718.6	740.9	710.1	649.6	561.5	474.5	447.9	436.3
15°	778.0	889.5	978.7	978.7	950.0	842.8	731.3	590.2	554.1	522.2
17.5°	1014.8	1154.9	1233.4	1224.9	1181.4	1106.0	972.3	769.6	696.3	663.4
20°	1284.4	1368.2	1386.3	1381.0	1361.8	1318.3	1226.0	1008.4	909.7	858.7
22.5°	1517.9	1495.6	1469.1	1447.8	1442.5	1455.3	1442.5	1274.8	1197.3	1107.1
25°	1676.0	1549.7	1470.1	1431.9	1449.9	1523.2	1602.8	1540.2	1478.6	1385.2
27.5°	1762.0	1543.4	1428.7	1389.4	1420.2	1524.2	1697.3	1803.4	1739.7	1695.1
30°	1808.7	1538.0	1402.2	1364.0	1410.7	1541.2	1763.1	2049.7	2051.8	1980.7
32.5°	1875.6	1572.0	1407.5	1372.5	1435.1	1592.2	1845.9	2300.2	2361.7	2323.5
35°	1951.0	1624.0	1431.9	1400.1	1477.5	1660.1	1938.2	2552.8	2681.2	2668.5
37.5°	2022.1	1682.4	1489.2	1458.4	1542.3	1718.5	2027.4	2801.2	2979.5	3024.1
40°	2096.4	1764.1	1665.4	1695.1	1741.8	1810.8	2107.0	3016.7	3307.5	3374.4
42.5°	2271.5	2047.5	2198.3	2254.5	2260.9	2118.7	2281.1	3292.6	3630.2	3709.8
45°	2662.1	2551.7	2983.7	3063.4	3022.0	2591.0	2700.3	3690.7	4081.3	4121.6
47.5°	3155.7	3206.7	4059.0	4333.9	4085.5	3148.3	3208.8	4528.2	4907.1	4892.2
50°	3731.0	3972.0	5279.7	5928.2	5333.8	3872.2	3794.7	5557.8	6017.4	5971.7
52.5°	4411.4	4861.5	6746.6	7667.9	7105.4	4686.3	4654.5	6921.7	7202.0	7056.5
55°	5268.0	5720.2	8434.3	9721.9	8921.5	5679.8	5789.2	8503.3	8557.4	8095.7
57.5°	6546.0	6840.0	10423.5	12077.2	10817.3	7030.0	7822.9	10608.2	9960.7	9086.0
60°	8866.3	8280.4	12345.8	14486.7	12834.0	8929.0	10505.2	11855.4	10427.7	9221.9
62.5°	9674.1	9503.2	13549.5	15505.7	14190.6	10488.2	11202.6	11148.5	9822.7	8708.2
65°	8450.2	9198.6	13334.0	14967.6	14016.5	10231.4	10053.0	10368.3	9141.2	7928.0
67.5°	7805.9	8483.1	12517.7	13482.6	13051.6	9359.9	8960.8	8874.8	7674.3	6708.4
70°	7156.3	7827.2	11334.2	11454.2	11253.5	7939.7	7415.3	6839.0	5736.1	4896.5
72.5°	6375.1	6744.5	9692.1	9123.2	8896.0	6236.0	6125.7	5150.2	4300.0	3579.2
75°	5559.9	5452.7	7556.5	6261.5	6431.4	4851.9	5173.5	3782.0	3150.4	2576.1
77.5°	4044.1	3964.5	5061.0	3803.2	4211.9	3178.0	2855.3	1509.4	1437.2	1239.8
80°	2256.7	2720.5	2733.2	2131.4	2658.9	2072.0	714.4	49.9	31.8	46.7
82.5°	1048.7	1169.7	1481.8	988.2	1516.8	1026.4	147.5	0.0	0.0	0.0
85°	339.7	496.8	416.1	145.4	367.3	347.1	24.4	0.0	0.0	0.0
87.5°	20.2	41.4	10.6	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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