

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: P633311

Luminaire Tested: GWS-SA2E-740-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633311  
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-SA2E-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**

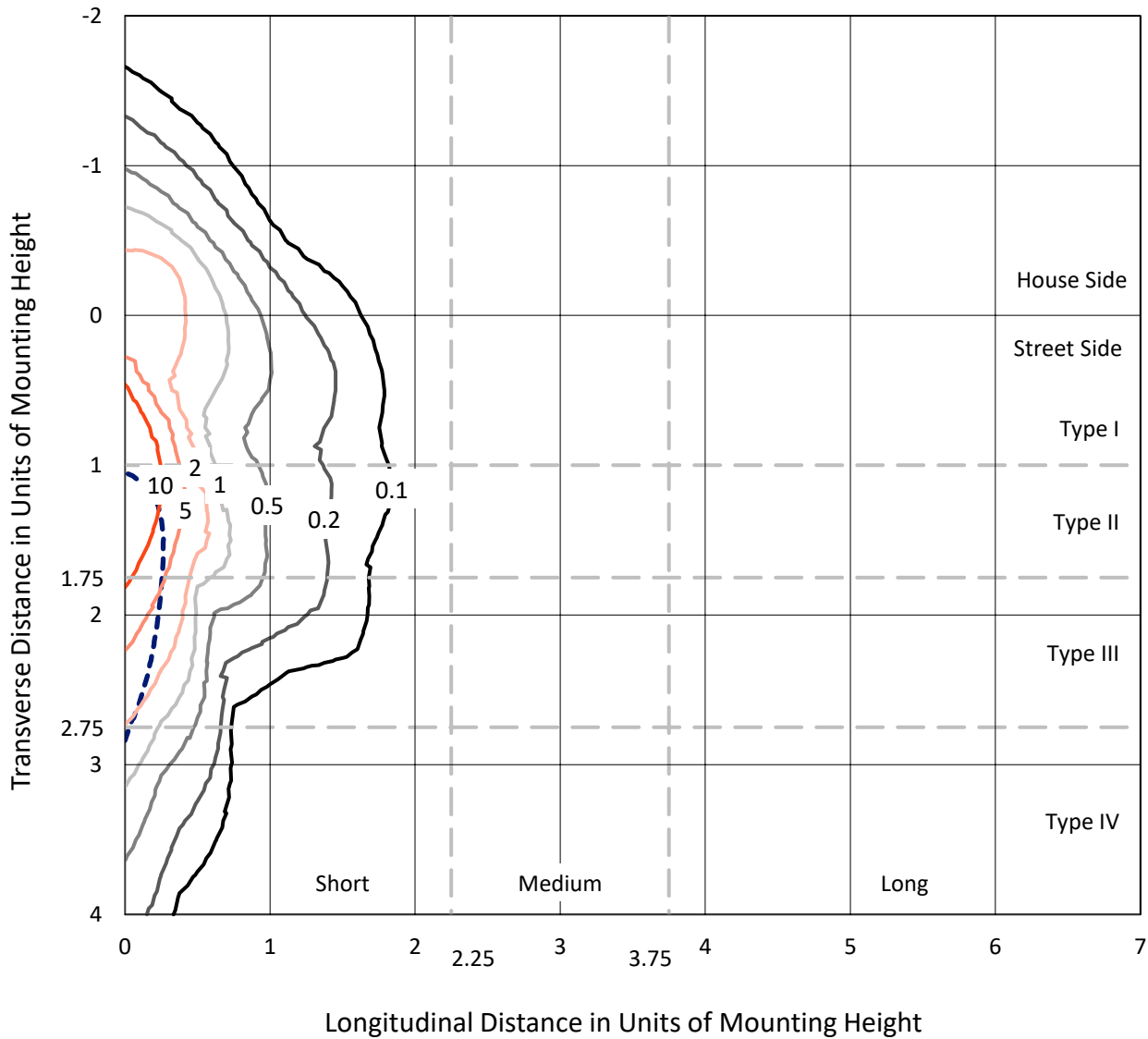
Lumens per Lamp: N/A  
Luminaire Lumens: 8834.4 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

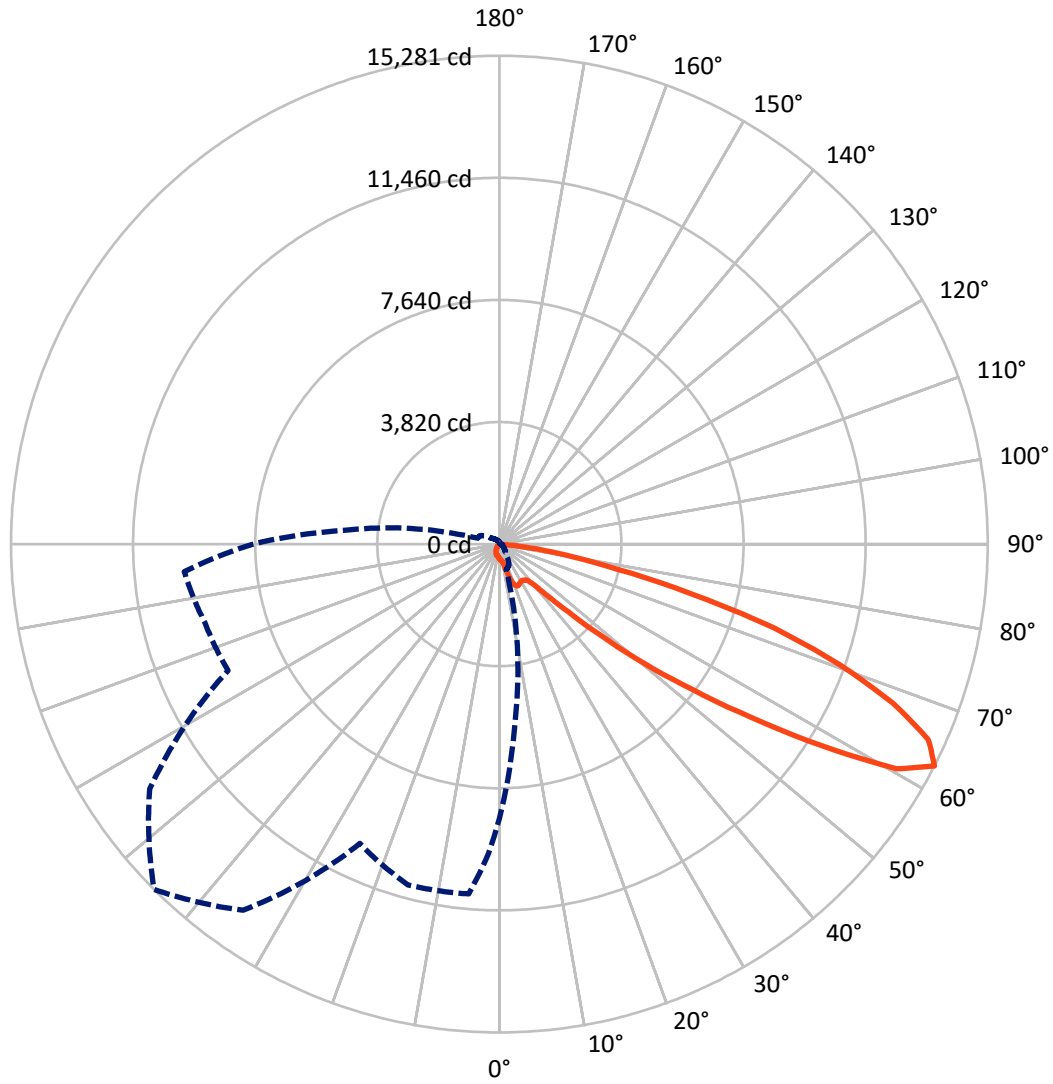
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 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	1026.4	0.0	1026.4
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	7808.0	0.0	7808.0
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	8834.4	0.0	8834.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	0.4
10°-20°	135.6	1.5
20°-30°	306.4	3.5
30°-40°	527.8	6.0
40°-50°	995.6	11.3
50°-60°	2222.8	25.2
60°-70°	2973.0	33.7
70°-80°	1490.9	16.9
80°-90°	142.9	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°	8834.4	100.0
0°-180°	8834.4	100.0

**Coefficient of Utilization**



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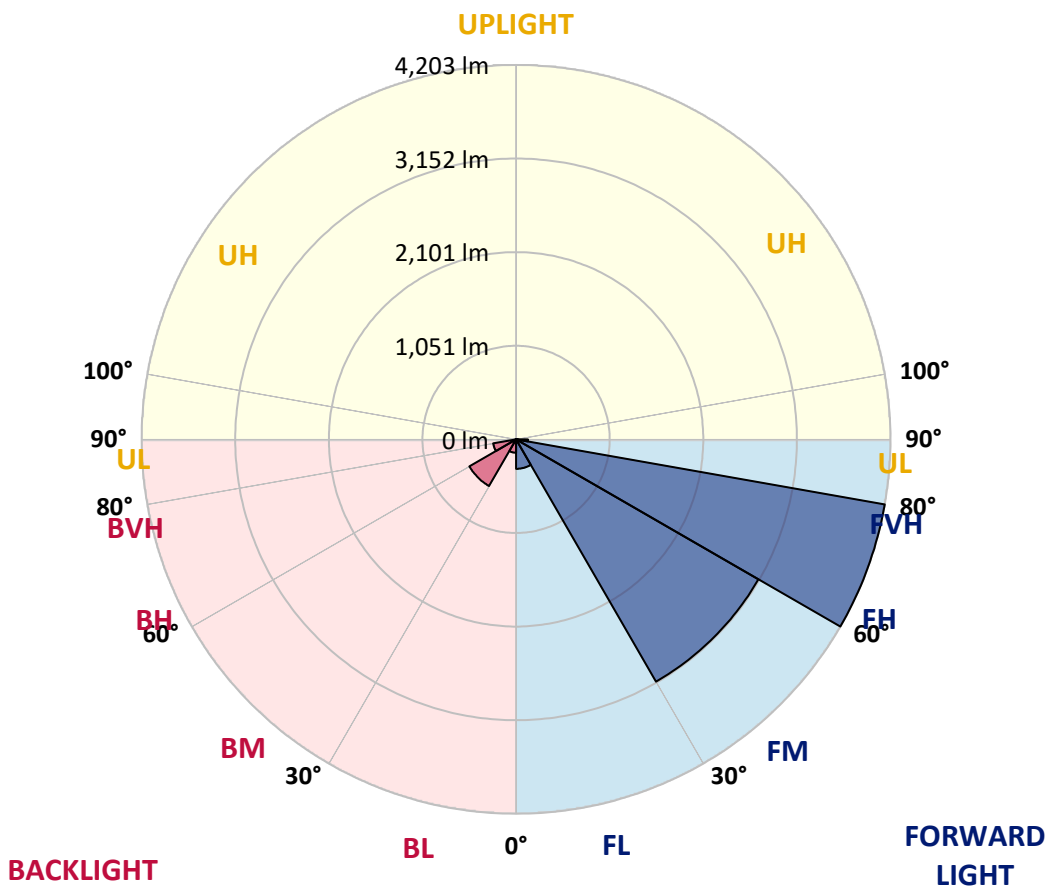
CATALOG NUMBER: GWS-SA2E-740-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.9	3.7			
FM (30°-60°)	3140.9	35.6			
FH (60°-80°)	4202.8	47.6			G2/5000
FVH (80°-90°)	133.4	1.5			G2/225
BL (0°-30°)	150.7	1.7	B1/500		
BM (30°-60°)	605.2	6.9	B1/1000		
BH (60°-80°)	261.0	3.0	B1/500		G1/500
BVH (80°-90°)	9.5	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°	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2
2.5°	452.9	451.9	449.8	443.5	438.3	435.2	428.9	428.9	427.8	425.7	421.6
5°	438.3	434.1	429.9	418.4	405.9	398.5	390.2	389.1	389.1	387.0	386.0
7.5°	415.3	411.1	405.9	387.0	375.5	368.2	360.9	359.8	356.7	356.7	356.7
10°	402.7	396.4	388.1	367.2	355.7	349.4	344.1	341.0	338.9	335.8	334.7
12.5°	429.9	418.4	400.6	363.0	347.3	338.9	332.6	330.5	324.3	320.1	316.9
15°	514.7	486.4	450.8	372.4	344.1	331.6	323.2	319.0	313.8	306.5	301.3
17.5°	653.8	613.0	553.4	402.7	341.0	325.3	314.9	307.5	300.2	291.8	285.6
20°	846.2	785.6	714.4	458.2	341.0	318.0	305.4	296.0	285.6	276.2	268.8
22.5°	1091.0	1030.3	909.0	552.3	345.2	308.6	293.9	281.4	268.8	260.5	252.1
25°	1365.1	1279.3	1166.3	666.3	356.7	296.0	280.3	267.8	256.3	245.8	236.4
27.5°	1670.5	1577.4	1426.8	828.5	381.8	283.5	265.7	254.2	243.7	233.3	220.7
30°	1951.9	1896.5	1742.7	1023.0	422.6	275.1	254.2	243.7	233.3	219.7	208.2
32.5°	2289.8	2191.4	2064.9	1244.8	477.0	266.7	244.8	230.1	221.8	209.2	196.7
35°	2629.7	2546.1	2379.7	1517.8	537.7	258.4	233.3	219.7	212.3	197.7	184.1
37.5°	2980.2	2961.3	2797.1	1820.1	597.3	249.0	219.7	211.3	204.0	187.2	171.6
40°	3325.4	3290.8	3139.2	2165.3	633.9	238.5	208.2	202.9	194.6	175.7	158.0
42.5°	3655.9	3629.8	3482.3	2495.8	628.7	229.1	196.7	190.4	184.1	165.3	143.3
45°	4061.8	4018.9	3832.7	2740.6	575.3	239.5	185.1	174.7	173.6	155.9	128.7
47.5°	4821.2	4680.0	4364.1	2928.9	522.0	266.7	172.6	160.0	167.4	146.4	114.0
50°	5885.0	5718.7	5261.6	3075.4	520.9	302.3	170.5	146.4	162.1	139.1	101.5
52.5°	6954.1	6661.2	6105.7	3153.8	559.6	328.5	189.3	132.8	155.9	131.8	92.1
55°	7978.1	7370.4	6459.3	2894.4	590.0	356.7	223.9	125.5	144.4	123.4	86.8
57.5°	8954.1	7940.5	6613.1	2289.8	691.4	368.2	244.8	128.7	127.6	113.0	82.6
60°	9088.0	7913.3	6302.4	1331.6	762.6	348.3	236.4	143.3	111.9	100.4	75.3
62.5°	8581.7	7387.1	5594.2	830.6	708.2	341.0	210.3	163.2	101.5	88.9	65.9
65°	7812.9	6561.8	4664.3	535.6	536.6	378.7	184.1	160.0	95.2	78.5	56.5
67.5°	6611.0	5491.7	3674.7	358.8	303.4	323.2	161.1	109.8	93.1	66.9	43.9
70°	4825.4	3909.0	2392.3	239.5	181.0	258.4	134.9	78.5	87.9	55.4	31.4
72.5°	3527.2	2626.6	1335.8	156.9	102.5	150.6	99.4	56.5	68.0	40.8	22.0
75°	2538.7	1807.6	762.6	100.4	68.0	82.6	64.9	38.7	43.9	32.4	19.9
77.5°	1221.8	880.8	346.2	55.4	46.0	41.8	34.5	24.1	27.2	29.3	17.8
80°	46.0	34.5	26.2	27.2	29.3	18.8	15.7	12.6	15.7	19.9	9.4
82.5°	0.0	0.0	0.0	3.1	4.2	5.2	6.3	5.2	6.3	7.3	1.0
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°	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2
2.5°	424.7	422.6	424.7	426.8	428.9	431.0	427.8	429.9	432.0	426.8	428.9
5°	391.2	390.2	396.4	399.6	403.8	405.9	403.8	403.8	402.7	396.4	396.4
7.5°	361.9	363.0	368.2	375.5	380.8	383.9	381.8	380.8	377.6	368.2	368.2
10°	340.0	340.0	348.3	354.6	361.9	365.1	363.0	359.8	356.7	347.3	346.2
12.5°	322.2	322.2	328.5	338.9	347.3	351.5	350.4	346.2	341.0	331.6	330.5
15°	305.4	304.4	313.8	323.2	334.7	340.0	337.9	334.7	325.3	316.9	314.9
17.5°	288.7	287.7	296.0	308.6	321.1	328.5	327.4	320.1	311.7	301.3	299.2
20°	272.0	269.9	280.3	292.9	305.4	312.8	310.7	304.4	293.9	283.5	281.4
22.5°	255.2	254.2	261.5	272.0	283.5	289.8	288.7	283.5	273.0	263.6	263.6
25°	236.4	236.4	241.6	249.0	257.3	260.5	261.5	259.4	253.1	247.9	247.9
27.5°	220.7	217.6	219.7	221.8	225.9	231.2	231.2	233.3	234.3	232.2	233.3
30°	208.2	202.9	199.8	195.6	193.5	195.6	197.7	205.0	212.3	216.5	218.6
32.5°	193.5	187.2	178.9	167.4	160.0	158.0	164.2	177.8	191.4	200.8	206.1
35°	178.9	170.5	154.8	138.1	128.7	125.5	132.8	148.5	168.4	185.1	192.5
37.5°	164.2	152.7	130.8	110.9	100.4	98.3	105.6	122.4	145.4	168.4	177.8
40°	147.5	133.9	107.7	86.8	78.5	76.4	82.6	99.4	123.4	149.6	164.2
42.5°	130.8	114.0	86.8	69.0	60.7	60.7	69.0	81.6	103.6	131.8	149.6
45°	114.0	96.2	71.1	55.4	50.2	51.3	56.5	69.0	86.8	116.1	132.8
47.5°	98.3	82.6	58.6	46.0	41.8	42.9	49.2	59.6	74.3	100.4	118.2
50°	84.7	70.1	51.3	38.7	35.6	37.7	43.9	53.3	65.9	88.9	103.6
52.5°	76.4	62.8	47.1	33.5	31.4	33.5	39.7	48.1	59.6	78.5	93.1
55°	72.2	61.7	47.1	30.3	27.2	29.3	35.6	43.9	53.3	71.1	83.7
57.5°	71.1	63.8	50.2	27.2	23.0	25.1	31.4	39.7	49.2	64.9	75.3
60°	66.9	60.7	49.2	22.0	17.8	20.9	26.2	34.5	45.0	60.7	70.1
62.5°	58.6	53.3	42.9	17.8	13.6	15.7	22.0	30.3	40.8	55.4	65.9
65°	48.1	42.9	33.5	11.5	8.4	10.5	16.7	26.2	35.6	50.2	59.6
67.5°	35.6	30.3	23.0	7.3	4.2	7.3	13.6	22.0	32.4	45.0	54.4
70°	22.0	17.8	12.6	4.2	3.1	6.3	12.6	20.9	29.3	41.8	51.3
72.5°	12.6	8.4	5.2	2.1	3.1	6.3	12.6	20.9	28.2	39.7	48.1
75°	9.4	5.2	2.1	1.0	2.1	5.2	11.5	18.8	27.2	37.7	46.0
77.5°	6.3	3.1	1.0	0.0	1.0	4.2	10.5	17.8	25.1	35.6	43.9
80°	1.0	0.0	0.0	0.0	0.0	3.1	9.4	15.7	23.0	31.4	38.7
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	7.3	13.6	19.9	26.2	31.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.5	15.7	19.9	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.5	12.6	14.6
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°	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2
2.5°	427.8	434.1	434.1	438.3	443.5	452.9	458.2	465.5	470.7	475.9	478.0
5°	395.4	396.4	397.5	399.6	405.9	416.3	425.7	437.2	450.8	461.3	467.6
7.5°	368.2	368.2	368.2	371.3	377.6	384.9	394.4	410.0	425.7	438.3	448.8
10°	345.2	348.3	349.4	354.6	361.9	371.3	381.8	395.4	413.2	429.9	448.8
12.5°	330.5	333.7	338.9	344.1	351.5	361.9	373.4	391.2	427.8	462.3	502.1
15°	316.9	321.1	327.4	334.7	343.1	354.6	367.2	403.8	489.5	554.4	617.2
17.5°	302.3	308.6	316.9	324.3	334.7	347.3	363.0	434.1	602.5	710.3	817.0
20°	283.5	291.8	301.3	312.8	325.3	340.0	363.0	496.9	765.7	920.5	1061.7
22.5°	265.7	274.1	285.6	300.2	314.9	329.5	368.2	592.1	976.0	1171.6	1350.4
25°	251.0	261.5	273.0	285.6	302.3	319.0	380.8	726.0	1229.1	1481.2	1607.8
27.5°	237.5	250.0	261.5	272.0	286.6	305.4	409.0	904.8	1528.3	1784.5	1883.9
30°	223.9	238.5	250.0	260.5	275.1	295.0	451.9	1132.9	1860.9	2109.9	2120.3
32.5°	212.3	225.9	239.5	250.0	263.6	286.6	511.5	1399.6	2201.9	2442.5	2344.2
35°	199.8	215.5	228.0	239.5	254.2	279.3	580.6	1687.3	2546.1	2747.9	2567.0
37.5°	187.2	205.0	220.7	229.1	243.7	272.0	630.8	1987.5	2897.5	3046.1	2762.6
40°	175.7	195.6	213.4	221.8	229.1	262.6	638.1	2295.0	3254.2	3340.0	2946.7
42.5°	163.2	185.1	200.8	212.3	218.6	256.3	594.1	2554.4	3553.4	3632.9	3187.3
45°	149.6	175.7	188.3	196.7	209.2	260.5	537.7	2755.3	3895.4	4032.5	3583.7
47.5°	136.0	165.3	175.7	182.0	198.7	285.6	516.7	2889.2	4459.3	4743.8	4252.1
50°	123.4	155.9	167.4	166.3	196.7	318.0	539.8	2990.6	5306.6	5641.3	5168.5
52.5°	109.8	145.4	159.0	154.8	212.3	343.1	585.8	3071.2	5958.2	6693.6	6399.7
55°	98.3	133.9	146.4	145.4	241.6	361.9	621.3	2646.5	6228.1	7671.6	7786.7
57.5°	90.0	121.3	131.8	149.6	260.5	361.9	718.6	1878.7	6233.3	8391.3	9627.7
60°	82.6	109.8	117.2	164.2	253.1	343.1	711.3	1150.6	5744.8	8342.2	10606.8
62.5°	76.4	99.4	108.8	168.4	223.9	340.0	642.3	713.4	4899.6	7707.2	9896.6
65°	71.1	91.0	104.6	154.8	202.9	364.0	433.1	512.6	3973.9	6983.4	9081.7
67.5°	65.9	83.7	110.9	126.6	184.1	325.3	312.8	364.0	3119.3	6189.4	8333.8
70°	61.7	79.5	117.2	103.6	161.1	254.2	221.8	276.2	2388.1	5164.3	7280.4
72.5°	58.6	74.3	98.3	81.6	130.8	196.7	154.8	200.8	1560.7	4031.4	5935.2
75°	55.4	68.0	72.2	65.9	97.3	128.7	117.2	134.9	929.9	2946.7	4503.2
77.5°	54.4	63.8	58.6	53.3	65.9	76.4	88.9	91.0	454.0	1473.9	2359.9
80°	48.1	57.5	50.2	43.9	45.0	50.2	65.9	60.7	103.6	374.5	629.7
82.5°	37.7	45.0	41.8	36.6	36.6	36.6	43.9	40.8	33.5	168.4	284.5
85°	26.2	31.4	31.4	29.3	28.2	28.2	27.2	26.2	9.4	10.5	15.7
87.5°	17.8	22.0	23.0	22.0	18.8	16.7	14.6	12.6	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°	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2
2.5°	485.4	488.5	488.5	484.3	481.2	472.8	464.4	456.1	454.0	452.9
5°	485.4	497.9	504.2	503.1	495.8	482.2	464.4	445.6	440.4	438.3
7.5°	478.0	502.1	520.9	524.1	510.5	486.4	454.0	425.7	418.4	415.3
10°	494.8	541.8	579.5	584.7	569.0	522.0	469.7	421.6	410.0	402.7
12.5°	584.7	662.1	708.2	730.1	699.8	640.2	553.4	467.6	441.4	429.9
15°	766.7	876.6	964.4	964.4	936.2	830.6	720.7	581.6	546.0	514.7
17.5°	1000.0	1138.1	1215.5	1207.1	1164.2	1090.0	958.2	758.4	686.2	653.8
20°	1265.7	1348.3	1366.1	1360.9	1342.1	1299.2	1208.2	993.7	896.5	846.2
22.5°	1495.8	1473.9	1447.7	1426.8	1421.6	1434.1	1421.6	1256.3	1179.9	1091.0
25°	1651.7	1527.2	1448.8	1411.1	1428.9	1501.1	1579.5	1517.8	1457.1	1365.1
27.5°	1736.4	1520.9	1408.0	1369.3	1399.6	1502.1	1672.6	1777.2	1714.5	1670.5
30°	1782.4	1515.7	1381.8	1344.2	1390.2	1518.8	1737.5	2019.9	2022.0	1951.9
32.5°	1848.3	1549.2	1387.0	1352.5	1414.2	1569.1	1819.1	2266.8	2327.4	2289.8
35°	1922.6	1600.4	1411.1	1379.7	1456.1	1636.0	1910.1	2515.7	2642.3	2629.7
37.5°	1992.7	1658.0	1467.6	1437.3	1519.9	1693.5	1997.9	2760.5	2936.2	2980.2
40°	2065.9	1738.5	1641.2	1670.5	1716.5	1784.5	2076.4	2972.8	3259.5	3325.4
42.5°	2238.5	2017.8	2166.3	2221.8	2228.1	2087.9	2247.9	3244.8	3577.5	3655.9
45°	2623.5	2514.7	2940.4	3018.9	2978.1	2553.4	2661.1	3637.1	4022.0	4061.8
47.5°	3109.9	3160.1	4000.0	4271.0	4026.2	3102.5	3162.2	4462.4	4835.8	4821.2
50°	3676.8	3914.3	5203.0	5842.1	5256.3	3815.9	3739.6	5477.1	5930.0	5885.0
52.5°	4347.3	4790.9	6648.6	7556.6	7002.2	4618.3	4586.9	6821.2	7097.4	6954.1
55°	5191.5	5637.1	8311.8	9580.7	8792.0	5597.3	5705.1	8379.8	8433.2	7978.1
57.5°	6450.9	6740.7	10272.1	11901.8	10660.2	6927.9	7709.3	10454.1	9816.0	8954.1
60°	8737.6	8160.1	12166.5	14276.3	12647.6	8799.3	10352.6	11683.2	10276.3	9088.0
62.5°	9533.6	9365.2	13352.7	15280.5	13984.5	10335.9	11039.9	10986.5	9680.0	8581.7
65°	8327.5	9065.0	13140.3	14750.2	13812.9	10082.8	9907.0	10217.7	9008.5	7812.9
67.5°	7692.6	8359.9	12335.9	13286.8	12862.1	9224.0	8830.7	8745.9	7562.9	6611.0
70°	7052.4	7713.5	11169.6	11287.8	11090.1	7824.4	7307.6	6739.6	5652.8	4825.4
72.5°	6282.5	6646.5	9551.4	8990.7	8766.8	6145.5	6036.7	5075.4	4237.5	3527.2
75°	5479.1	5373.5	7446.7	6170.6	6337.9	4781.4	5098.4	3727.0	3104.6	2538.7
77.5°	3985.4	3907.0	4987.5	3748.0	4150.7	3131.8	2813.8	1487.5	1416.3	1221.8
80°	2223.9	2681.0	2693.5	2100.4	2620.3	2041.9	704.0	49.2	31.4	46.0
82.5°	1033.5	1152.7	1460.3	973.9	1494.8	1011.5	145.4	0.0	0.0	0.0
85°	334.7	489.5	410.0	143.3	361.9	342.1	24.1	0.0	0.0	0.0
87.5°	19.9	40.8	10.5	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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