

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: P637381

Luminaire Tested: GWS-SA4C-760-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637381  
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-SA4C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

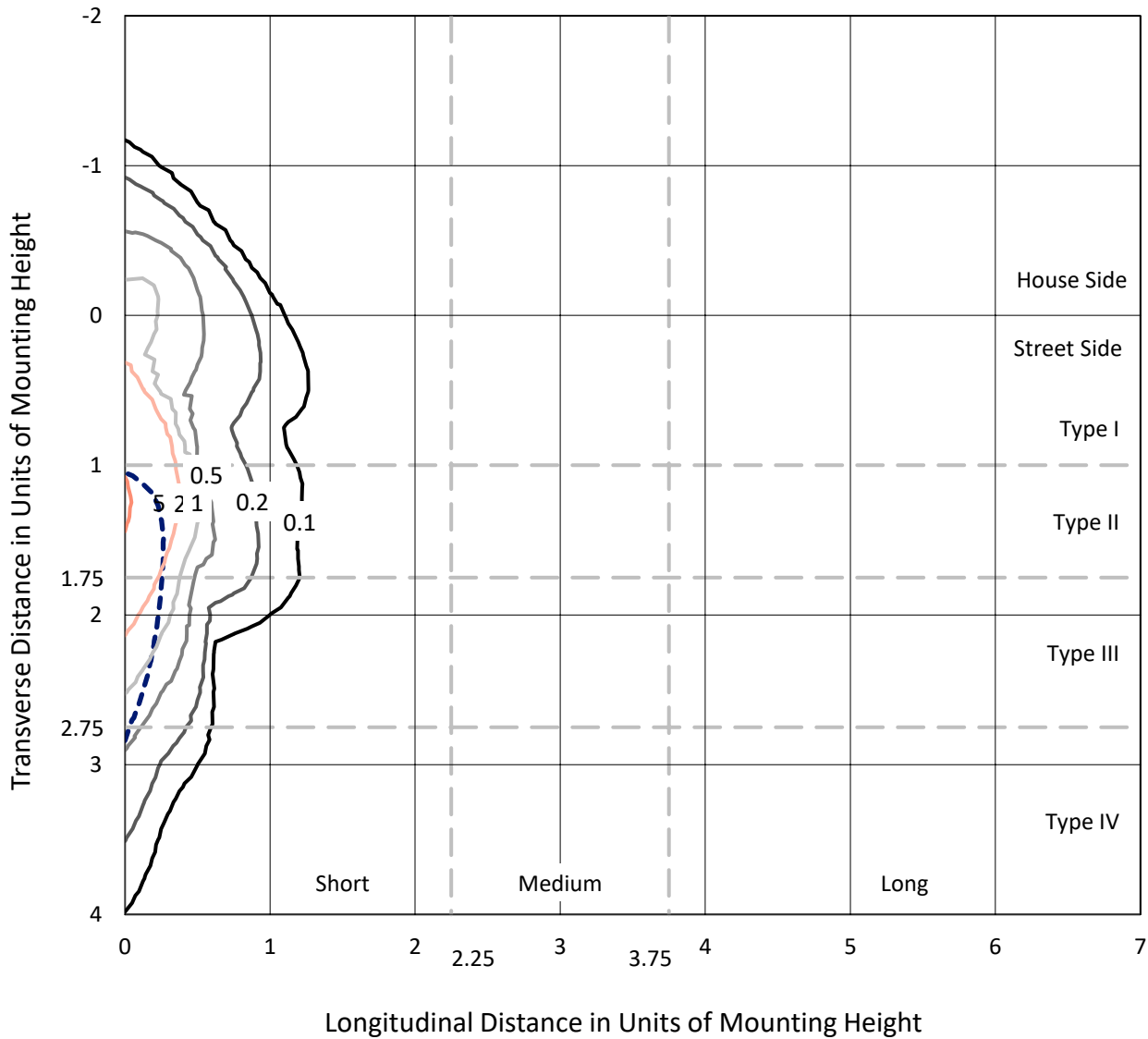
Lumens per Lamp: N/A  
Luminaire Lumens: 11857.7 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

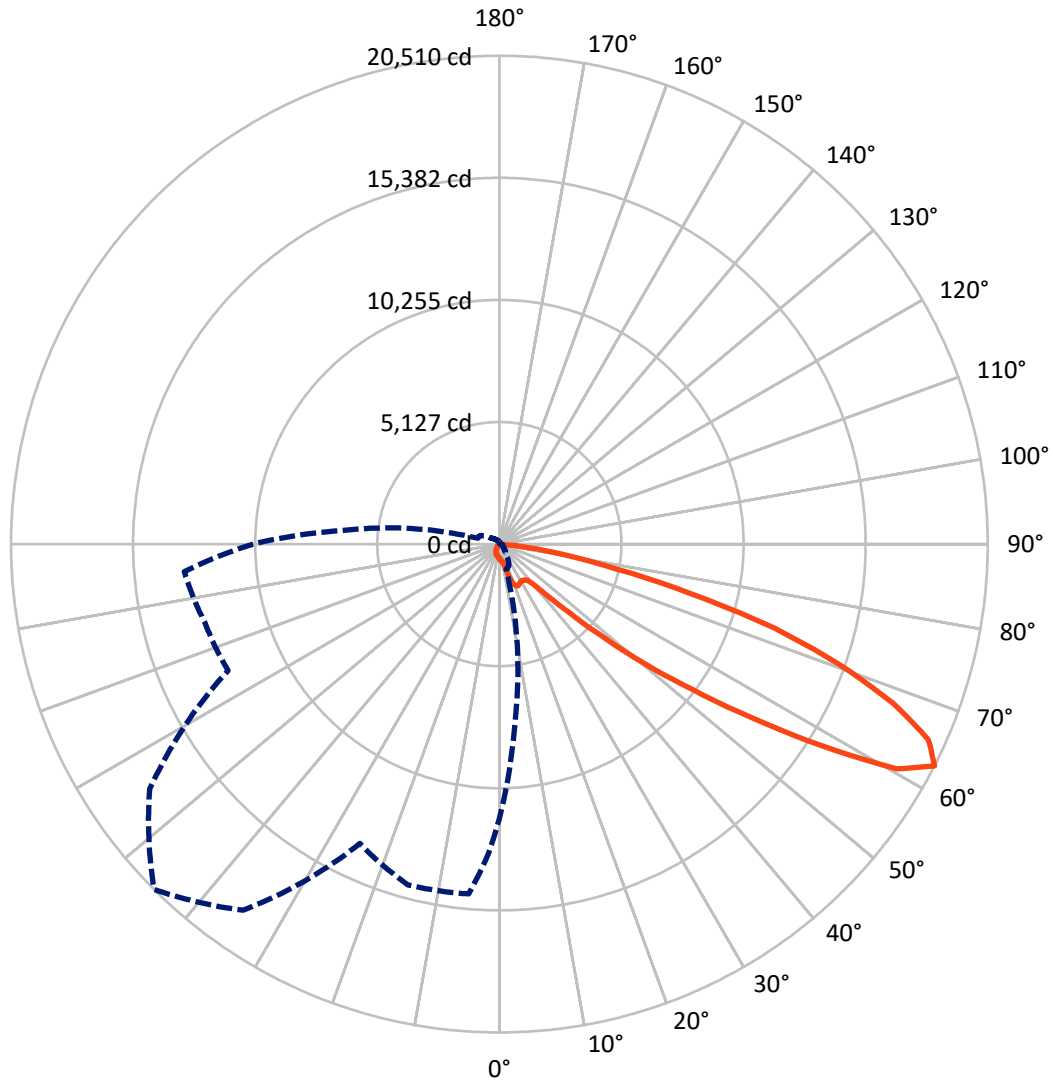
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	1377.7	0.0	1377.7
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	10480.0	0.0	10480.0
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	11857.7	0.0	11857.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	0.4
10°-20°	182.0	1.5
20°-30°	411.2	3.5
30°-40°	708.4	6.0
40°-50°	1336.3	11.3
50°-60°	2983.5	25.2
60°-70°	3990.4	33.7
70°-80°	2001.1	16.9
80°-90°	191.8	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°	11857.7	100.0
0°-180°	11857.7	100.0

**Coefficient of Utilization**



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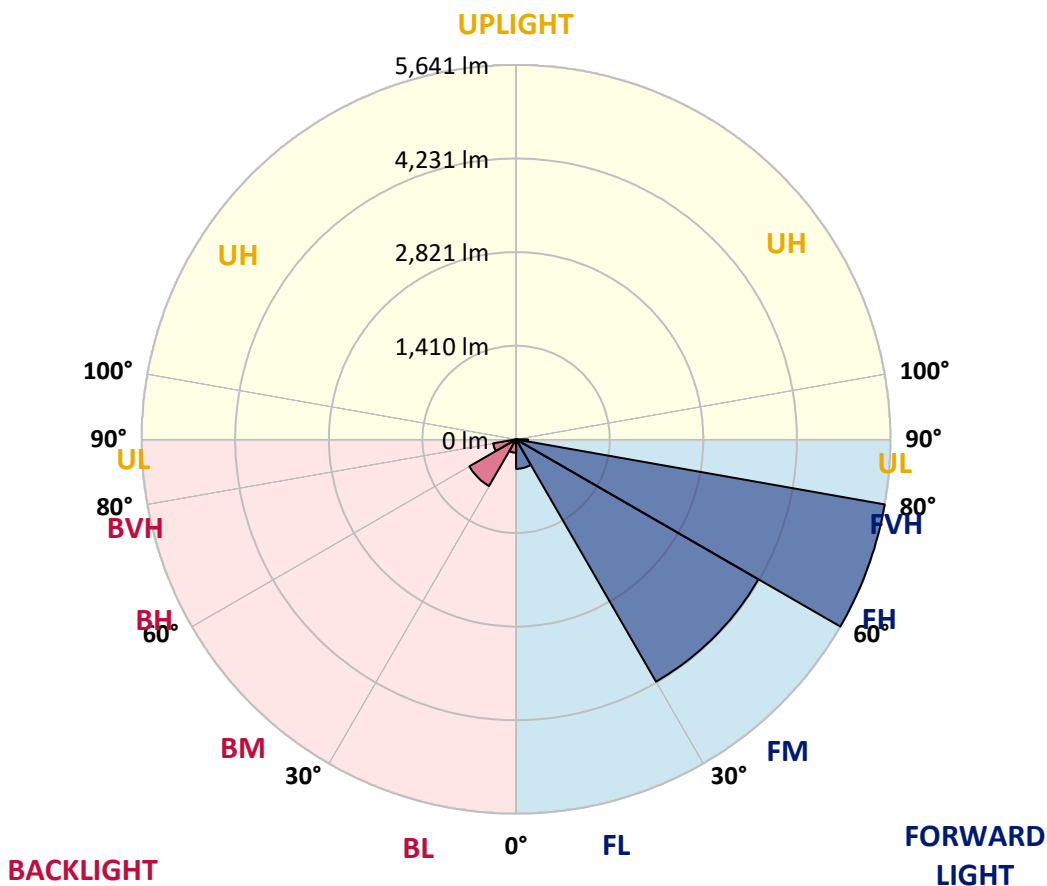
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.1	3.7			
FM (30°-60°)	4215.8	35.6			
FH (60°-80°)	5641.1	47.6			G3/7500
FVH (80°-90°)	179.0	1.5			G2/225
BL (0°-30°)	202.2	1.7	B1/500		
BM (30°-60°)	812.4	6.9	B1/1000		
BH (60°-80°)	350.3	3.0	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	607.9	606.5	603.7	595.3	588.3	584.1	575.6	575.6	574.2	571.4	565.8
5°	588.3	582.7	577.0	561.6	544.8	534.9	523.7	522.3	522.3	519.5	518.1
7.5°	557.4	551.8	544.8	519.5	504.0	494.2	484.4	483.0	478.8	478.8	478.8
10°	540.5	532.1	520.9	492.8	477.4	468.9	461.9	457.7	454.9	450.7	449.3
12.5°	577.0	561.6	537.7	487.2	466.1	454.9	446.5	443.7	435.2	429.6	425.4
15°	690.8	652.9	605.1	499.8	461.9	445.1	433.8	428.2	421.2	411.4	404.4
17.5°	877.5	822.8	742.7	540.5	457.7	436.6	422.6	412.8	403.0	391.7	383.3
20°	1135.8	1054.4	958.9	615.0	457.7	426.8	410.0	397.3	383.3	370.7	360.8
22.5°	1464.4	1383.0	1220.1	741.3	463.3	414.2	394.5	377.7	360.8	349.6	338.4
25°	1832.2	1717.1	1565.5	894.4	478.8	397.3	376.3	359.4	344.0	329.9	317.3
27.5°	2242.2	2117.3	1915.1	1112.0	512.5	380.5	356.6	341.2	327.1	313.1	296.2
30°	2619.9	2545.5	2339.1	1373.1	567.2	369.3	341.2	327.1	313.1	294.8	279.4
32.5°	3073.4	2941.4	2771.5	1670.8	640.2	358.0	328.5	308.9	297.7	280.8	264.0
35°	3529.7	3417.4	3194.1	2037.2	721.7	346.8	313.1	294.8	285.0	265.4	247.1
37.5°	4000.0	3974.8	3754.3	2443.0	801.7	334.2	294.8	283.6	273.8	251.3	230.3
40°	4463.4	4417.0	4213.4	2906.3	850.8	320.1	279.4	272.4	261.1	235.9	212.0
42.5°	4907.0	4871.9	4674.0	3350.0	843.8	307.5	264.0	255.5	247.1	221.8	192.3
45°	5451.8	5394.2	5144.3	3678.5	772.2	321.5	248.5	234.5	233.1	209.2	172.7
47.5°	6471.1	6281.6	5857.5	3931.2	700.6	358.0	231.7	214.8	224.6	196.6	153.0
50°	7899.0	7675.7	7062.2	4127.8	699.2	405.8	228.9	196.6	217.6	186.7	136.2
52.5°	9333.9	8940.7	8195.2	4233.1	751.1	440.9	254.1	178.3	209.2	176.9	123.6
55°	10708.4	9892.7	8669.8	3884.9	791.9	478.8	300.5	168.5	193.8	165.7	116.5
57.5°	12018.3	10657.9	8876.2	3073.4	928.1	494.2	328.5	172.7	171.3	151.6	110.9
60°	12198.1	10621.4	8459.2	1787.3	1023.5	467.5	317.3	192.3	150.2	134.8	101.1
62.5°	11518.5	9915.1	7508.7	1114.8	950.5	457.7	282.2	219.0	136.2	119.3	88.5
65°	10486.6	8807.4	6260.5	718.9	720.3	508.3	247.1	214.8	127.8	105.3	75.8
67.5°	8873.4	7371.1	4932.3	481.6	407.2	433.8	216.2	147.4	125.0	89.9	59.0
70°	6476.7	5246.8	3211.0	321.5	242.9	346.8	181.1	105.3	117.9	74.4	42.1
72.5°	4734.3	3525.5	1792.9	210.6	137.6	202.2	133.4	75.8	91.3	54.8	29.5
75°	3407.5	2426.1	1023.5	134.8	91.3	110.9	87.0	51.9	59.0	43.5	26.7
77.5°	1639.9	1182.2	464.7	74.4	61.8	56.2	46.3	32.3	36.5	39.3	23.9
80°	61.8	46.3	35.1	36.5	39.3	25.3	21.1	16.8	21.1	26.7	12.6
82.5°	0.0	0.0	0.0	4.2	5.6	7.0	8.4	7.0	8.4	9.8	1.4
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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	570.0	567.2	570.0	572.8	575.6	578.5	574.2	577.0	579.9	572.8	575.6
5°	525.1	523.7	532.1	536.3	541.9	544.8	541.9	541.9	540.5	532.1	532.1
7.5°	485.8	487.2	494.2	504.0	511.1	515.3	512.5	511.1	506.8	494.2	494.2
10°	456.3	456.3	467.5	476.0	485.8	490.0	487.2	483.0	478.8	466.1	464.7
12.5°	432.4	432.4	440.9	454.9	466.1	471.7	470.3	464.7	457.7	445.1	443.7
15°	410.0	408.6	421.2	433.8	449.3	456.3	453.5	449.3	436.6	425.4	422.6
17.5°	387.5	386.1	397.3	414.2	431.0	440.9	439.5	429.6	418.4	404.4	401.5
20°	365.0	362.2	376.3	393.1	410.0	419.8	417.0	408.6	394.5	380.5	377.7
22.5°	342.6	341.2	351.0	365.0	380.5	388.9	387.5	380.5	366.4	353.8	353.8
25°	317.3	317.3	324.3	334.2	345.4	349.6	351.0	348.2	339.8	332.8	332.8
27.5°	296.2	292.0	294.8	297.7	303.3	310.3	310.3	313.1	314.5	311.7	313.1
30°	279.4	272.4	268.2	262.6	259.7	262.6	265.4	275.2	285.0	290.6	293.4
32.5°	259.7	251.3	240.1	224.6	214.8	212.0	220.4	238.7	256.9	269.6	276.6
35°	240.1	228.9	207.8	185.3	172.7	168.5	178.3	199.4	226.0	248.5	258.3
37.5°	220.4	205.0	175.5	148.8	134.8	132.0	141.8	164.3	195.2	226.0	238.7
40°	198.0	179.7	144.6	116.5	105.3	102.5	110.9	133.4	165.7	200.8	220.4
42.5°	175.5	153.0	116.5	92.7	81.4	81.4	92.7	109.5	139.0	176.9	200.8
45°	153.0	129.2	95.5	74.4	67.4	68.8	75.8	92.7	116.5	155.8	178.3
47.5°	132.0	110.9	78.6	61.8	56.2	57.6	66.0	80.0	99.7	134.8	158.7
50°	113.7	94.1	68.8	51.9	47.7	50.5	59.0	71.6	88.5	119.3	139.0
52.5°	102.5	84.2	63.2	44.9	42.1	44.9	53.4	64.6	80.0	105.3	125.0
55°	96.9	82.8	63.2	40.7	36.5	39.3	47.7	59.0	71.6	95.5	112.3
57.5°	95.5	85.6	67.4	36.5	30.9	33.7	42.1	53.4	66.0	87.0	101.1
60°	89.9	81.4	66.0	29.5	23.9	28.1	35.1	46.3	60.4	81.4	94.1
62.5°	78.6	71.6	57.6	23.9	18.3	21.1	29.5	40.7	54.8	74.4	88.5
65°	64.6	57.6	44.9	15.4	11.2	14.0	22.5	35.1	47.7	67.4	80.0
67.5°	47.7	40.7	30.9	9.8	5.6	9.8	18.3	29.5	43.5	60.4	73.0
70°	29.5	23.9	16.8	5.6	4.2	8.4	16.8	28.1	39.3	56.2	68.8
72.5°	16.8	11.2	7.0	2.8	4.2	8.4	16.8	28.1	37.9	53.4	64.6
75°	12.6	7.0	2.8	1.4	2.8	7.0	15.4	25.3	36.5	50.5	61.8
77.5°	8.4	4.2	1.4	0.0	1.4	5.6	14.0	23.9	33.7	47.7	59.0
80°	1.4	0.0	0.0	0.0	0.0	4.2	12.6	21.1	30.9	42.1	51.9
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	9.8	18.3	26.7	35.1	42.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	14.0	21.1	26.7	29.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	14.0	16.8	19.7
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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	574.2	582.7	582.7	588.3	595.3	607.9	615.0	624.8	631.8	638.8	641.6
5°	530.7	532.1	533.5	536.3	544.8	558.8	571.4	586.9	605.1	619.2	627.6
7.5°	494.2	494.2	494.2	498.4	506.8	516.7	529.3	550.4	571.4	588.3	602.3
10°	463.3	467.5	468.9	476.0	485.8	498.4	512.5	530.7	554.6	577.0	602.3
12.5°	443.7	447.9	454.9	461.9	471.7	485.8	501.2	525.1	574.2	620.6	673.9
15°	425.4	431.0	439.5	449.3	460.5	476.0	492.8	541.9	657.1	744.1	828.4
17.5°	405.8	414.2	425.4	435.2	449.3	466.1	487.2	582.7	808.7	953.3	1096.5
20°	380.5	391.7	404.4	419.8	436.6	456.3	487.2	666.9	1027.7	1235.5	1425.1
22.5°	356.6	367.9	383.3	403.0	422.6	442.3	494.2	794.7	1309.9	1572.5	1812.6
25°	337.0	351.0	366.4	383.3	405.8	428.2	511.1	974.4	1649.7	1988.1	2158.0
27.5°	318.7	335.6	351.0	365.0	384.7	410.0	549.0	1214.5	2051.3	2395.2	2528.6
30°	300.5	320.1	335.6	349.6	369.3	395.9	606.5	1520.5	2497.7	2831.9	2845.9
32.5°	285.0	303.3	321.5	335.6	353.8	384.7	686.6	1878.6	2955.4	3278.4	3146.4
35°	268.2	289.2	306.1	321.5	341.2	374.9	779.2	2264.7	3417.4	3688.3	3445.4
37.5°	251.3	275.2	296.2	307.5	327.1	365.0	846.6	2667.6	3889.1	4088.5	3708.0
40°	235.9	262.6	286.4	297.7	307.5	352.4	856.4	3080.4	4367.9	4483.0	3955.1
42.5°	219.0	248.5	269.6	285.0	293.4	344.0	797.5	3428.6	4769.4	4876.1	4278.0
45°	200.8	235.9	252.7	264.0	280.8	349.6	721.7	3698.2	5228.5	5412.5	4810.1
47.5°	182.5	221.8	235.9	244.3	266.8	383.3	693.6	3877.9	5985.3	6367.2	5707.3
50°	165.7	209.2	224.6	223.2	264.0	426.8	724.5	4014.1	7122.6	7571.8	6937.2
52.5°	147.4	195.2	213.4	207.8	285.0	460.5	786.2	4122.2	7997.3	8984.3	8589.7
55°	132.0	179.7	196.6	195.2	324.3	485.8	834.0	3552.2	8359.5	10297.0	10451.5
57.5°	120.7	162.9	176.9	200.8	349.6	485.8	964.6	2521.6	8366.5	11263.0	12922.5
60°	110.9	147.4	157.2	220.4	339.8	460.5	954.7	1544.4	7710.8	11197.0	14236.7
62.5°	102.5	133.4	146.0	226.0	300.5	456.3	862.1	957.5	6576.4	10344.8	13283.4
65°	95.5	122.1	140.4	207.8	272.4	488.6	581.3	688.0	5333.8	9373.2	12189.6
67.5°	88.5	112.3	148.8	169.9	247.1	436.6	419.8	488.6	4186.8	8307.5	11185.8
70°	82.8	106.7	157.2	139.0	216.2	341.2	297.7	370.7	3205.4	6931.6	9771.9
72.5°	78.6	99.7	132.0	109.5	175.5	264.0	207.8	269.6	2094.8	5411.1	7966.4
75°	74.4	91.3	96.9	88.5	130.6	172.7	157.2	181.1	1248.2	3955.1	6044.3
77.5°	73.0	85.6	78.6	71.6	88.5	102.5	119.3	122.1	609.3	1978.3	3167.5
80°	64.6	77.2	67.4	59.0	60.4	67.4	88.5	81.4	139.0	502.6	845.2
82.5°	50.5	60.4	56.2	49.1	49.1	49.1	59.0	54.8	44.9	226.0	381.9
85°	35.1	42.1	42.1	39.3	37.9	37.9	36.5	35.1	12.6	14.0	21.1
87.5°	23.9	29.5	30.9	29.5	25.3	22.5	19.7	16.8	5.6	0.0	2.8
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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	651.5	655.7	655.7	650.1	645.8	634.6	623.4	612.1	609.3	607.9
5°	651.5	668.3	676.7	675.3	665.5	647.2	623.4	598.1	591.1	588.3
7.5°	641.6	673.9	699.2	703.4	685.2	652.9	609.3	571.4	561.6	557.4
10°	664.1	727.3	777.8	784.8	763.8	700.6	630.4	565.8	550.4	540.5
12.5°	784.8	888.7	950.5	980.0	939.3	859.3	742.7	627.6	592.5	577.0
15°	1029.1	1176.6	1294.5	1294.5	1256.6	1114.8	967.4	780.6	732.9	690.8
17.5°	1342.2	1527.6	1631.5	1620.2	1562.7	1463.0	1286.1	1017.9	921.0	877.5
20°	1698.9	1809.8	1833.6	1826.6	1801.3	1743.8	1621.6	1333.8	1203.2	1135.8
22.5°	2007.7	1978.3	1943.2	1915.1	1908.1	1924.9	1908.1	1686.2	1583.7	1464.4
25°	2216.9	2049.9	1944.6	1894.0	1917.9	2014.8	2120.1	2037.2	1955.8	1832.2
27.5°	2330.7	2041.4	1889.8	1837.9	1878.6	2016.2	2245.0	2385.4	2301.2	2242.2
30°	2392.4	2034.4	1854.7	1804.2	1865.9	2038.6	2332.1	2711.1	2714.0	2619.9
32.5°	2480.9	2079.3	1861.7	1815.4	1898.2	2106.0	2441.6	3042.5	3123.9	3073.4
35°	2580.6	2148.1	1894.0	1851.9	1954.4	2195.9	2563.7	3376.6	3546.5	3529.7
37.5°	2674.6	2225.4	1969.8	1929.1	2040.0	2273.1	2681.7	3705.2	3941.1	4000.0
40°	2772.9	2333.5	2202.9	2242.2	2304.0	2395.2	2787.0	3990.2	4374.9	4463.4
42.5°	3004.6	2708.3	2907.7	2982.1	2990.5	2802.4	3017.2	4355.2	4801.7	4907.0
45°	3521.3	3375.2	3946.7	4052.0	3997.2	3427.2	3571.8	4881.8	5398.4	5451.8
47.5°	4174.1	4241.5	5368.9	5732.6	5404.0	4164.3	4244.3	5989.5	6490.7	6471.1
50°	4935.1	5253.8	6983.6	7841.4	7055.2	5121.8	5019.3	7351.4	7959.3	7899.0
52.5°	5835.1	6430.4	8923.9	10142.6	9398.5	6198.7	6156.6	9155.6	9526.2	9333.9
55°	6968.1	7566.2	11156.3	12859.3	11800.7	7512.9	7657.5	11247.5	11319.1	10708.4
57.5°	8658.5	9047.5	13787.4	15974.9	14308.3	9298.8	10347.6	14031.7	13175.3	12018.3
60°	11727.7	10952.7	16330.1	19162.0	16975.9	11810.6	13895.5	15681.4	13793.0	12198.1
62.5°	12796.2	12570.1	17922.2	20509.8	18770.2	13873.0	14817.9	14746.3	12992.7	11518.5
65°	11177.3	12167.2	17637.2	19798.0	18540.0	13533.3	13297.4	13714.4	12091.4	10486.6
67.5°	10325.1	11220.9	16557.5	17833.8	17263.7	12380.6	11852.7	11738.9	10151.0	8873.4
70°	9465.9	10353.2	14992.0	15150.7	14885.3	10502.0	9808.4	9046.1	7587.3	6476.7
72.5°	8432.5	8921.1	12820.0	12067.5	11767.0	8248.6	8102.6	6812.3	5687.7	4734.3
75°	7354.2	7212.4	9995.2	8282.3	8506.9	6417.7	6843.2	5002.5	4167.1	3407.5
77.5°	5349.3	5244.0	6694.3	5030.6	5571.1	4203.6	3776.8	1996.5	1901.0	1639.9
80°	2984.9	3598.5	3615.3	2819.3	3517.1	2740.6	944.9	66.0	42.1	61.8
82.5°	1387.2	1547.2	1960.0	1307.1	2006.3	1357.7	195.2	0.0	0.0	0.0
85°	449.3	657.1	550.4	192.3	485.8	459.1	32.3	0.0	0.0	0.0
87.5°	26.7	54.8	14.0	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

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