

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: P636061

Luminaire Tested: GWS-SA3F-722-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636061  
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-SA3F-722-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

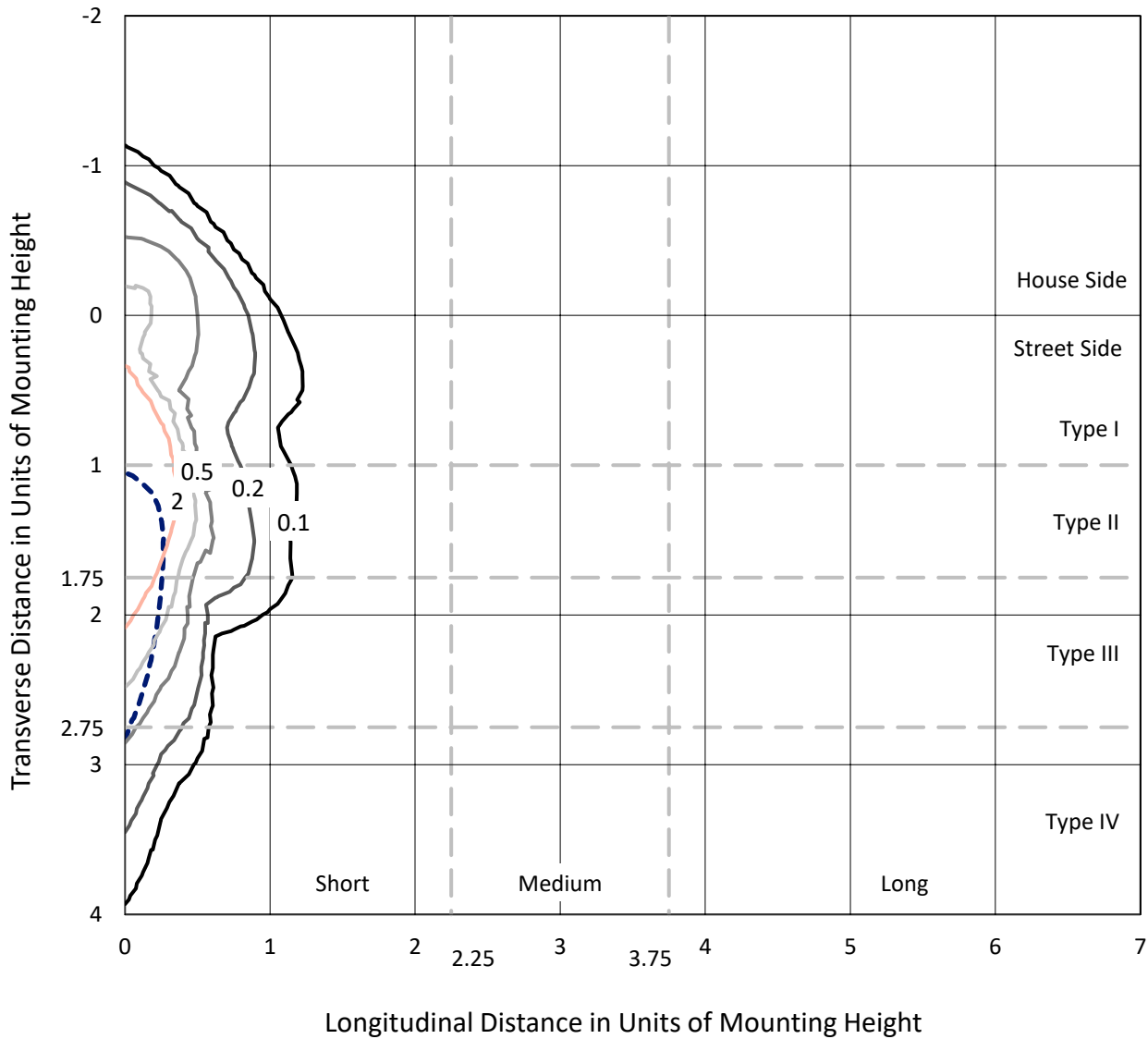
Lumens per Lamp: N/A  
Luminaire Lumens: 10904.6 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

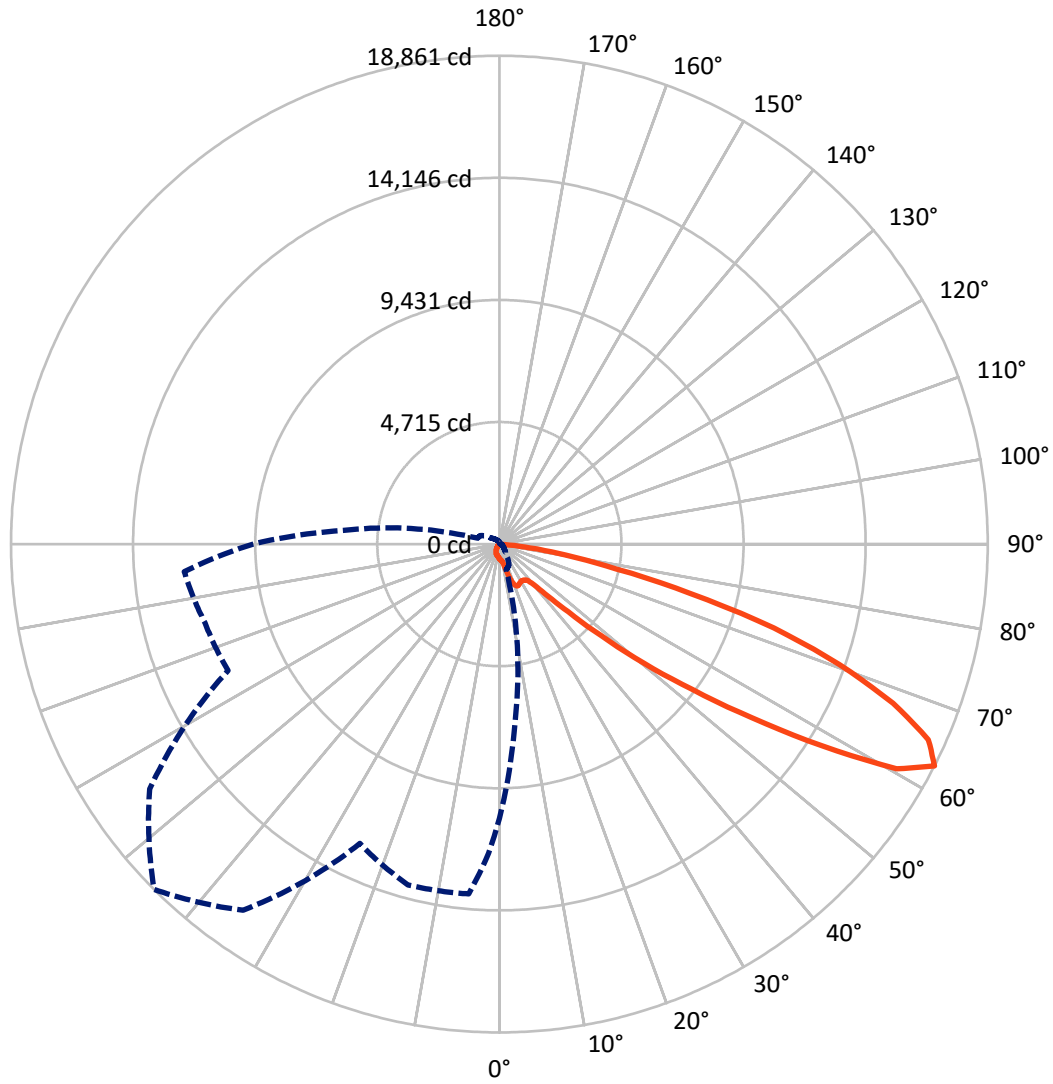
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1267.0	0.0	1267.0
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	9637.6	0.0	9637.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	10904.6	0.0	10904.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	0.4
10°-20°	167.4	1.5
20°-30°	378.1	3.5
30°-40°	651.4	6.0
40°-50°	1228.9	11.3
50°-60°	2743.7	25.2
60°-70°	3669.6	33.7
70°-80°	1840.2	16.9
80°-90°	176.4	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°	10904.6	100.0
0°-180°	10904.6	100.0

**Coefficient of Utilization**



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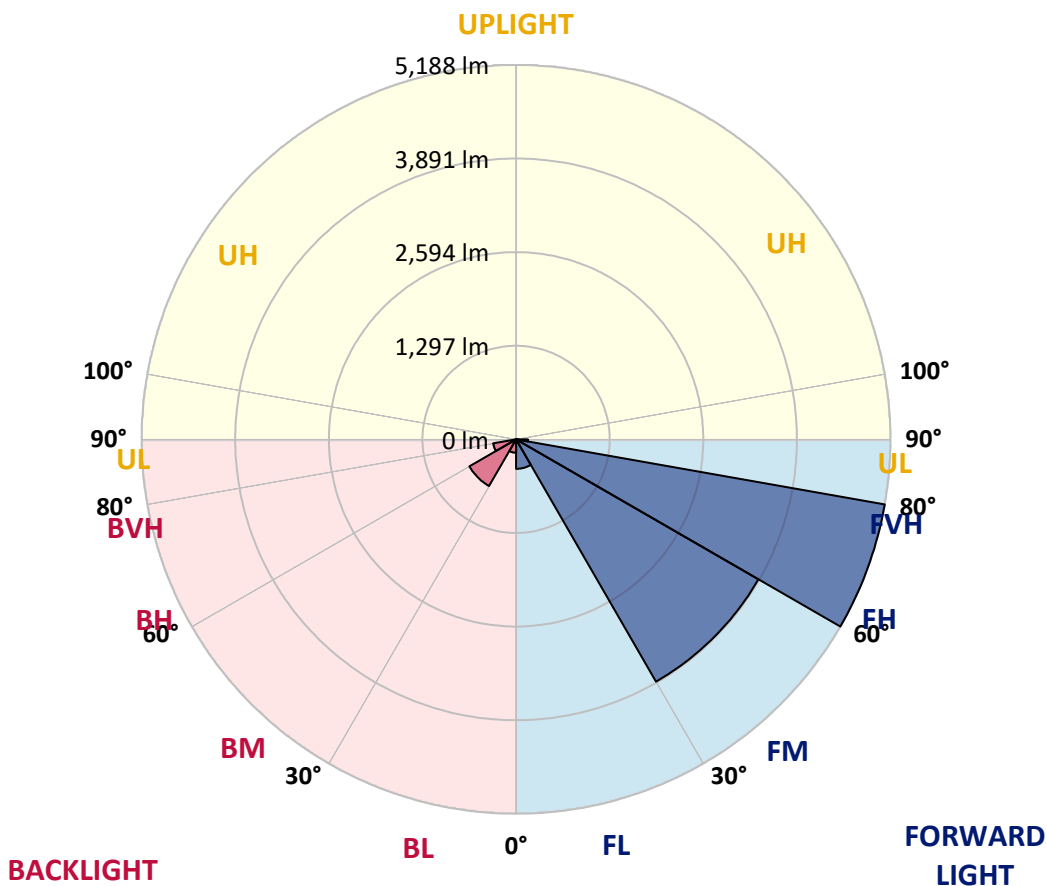
CATALOG NUMBER: GWS-SA3F-722-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.4	3.7			
FM (30°-60°)	3876.9	35.6			
FH (60°-80°)	5187.7	47.6			G3/7500
FVH (80°-90°)	164.7	1.5			G2/225
BL (0°-30°)	186.0	1.7	B1/500		
BM (30°-60°)	747.1	6.9	B1/1000		
BH (60°-80°)	322.2	3.0	B1/500		G1/500
BVH (80°-90°)	11.7	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°	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5
2.5°	559.1	557.8	555.2	547.5	541.0	537.1	529.4	529.4	528.1	525.5	520.3
5°	541.0	535.8	530.7	516.5	501.0	491.9	481.6	480.3	480.3	477.7	476.4
7.5°	512.6	507.4	501.0	477.7	463.5	454.5	445.5	444.2	440.3	440.3	440.3
10°	497.1	489.3	479.0	453.2	439.0	431.2	424.8	420.9	418.3	414.5	413.2
12.5°	530.7	516.5	494.5	448.0	428.7	418.3	410.6	408.0	400.3	395.1	391.2
15°	635.3	600.4	556.5	459.7	424.8	409.3	399.0	393.8	387.3	378.3	371.9
17.5°	807.0	756.6	683.0	497.1	420.9	401.6	388.6	379.6	370.6	360.2	352.5
20°	1044.5	969.7	881.9	565.5	420.9	392.5	377.0	365.4	352.5	340.9	331.8
22.5°	1346.7	1271.8	1122.0	681.7	426.1	380.9	362.8	347.3	331.8	321.5	311.2
25°	1685.0	1579.1	1439.6	822.5	440.3	365.4	346.0	330.5	316.3	303.4	291.8
27.5°	2062.0	1947.1	1761.1	1022.6	471.3	349.9	328.0	313.8	300.8	287.9	272.4
30°	2409.3	2340.9	2151.1	1262.8	521.6	339.6	313.8	300.8	287.9	271.1	256.9
32.5°	2826.3	2705.0	2548.8	1536.5	588.8	329.2	302.1	284.1	273.7	258.2	242.7
35°	3246.0	3142.7	2937.4	1873.5	663.7	318.9	287.9	271.1	262.1	244.0	227.2
37.5°	3678.5	3655.3	3452.6	2246.6	737.3	307.3	271.1	260.8	251.8	231.1	211.8
40°	4104.6	4062.0	3874.8	2672.7	782.4	294.4	256.9	250.5	240.2	216.9	195.0
42.5°	4512.6	4480.3	4298.3	3080.7	776.0	282.8	242.7	235.0	227.2	204.0	176.9
45°	5013.6	4960.6	4730.8	3382.8	710.1	295.7	228.5	215.6	214.3	192.4	158.8
47.5°	5951.0	5776.7	5386.7	3615.2	644.3	329.2	213.0	197.5	206.6	180.8	140.7
50°	7264.1	7058.8	6494.5	3796.0	643.0	373.1	210.5	180.8	200.1	171.7	125.2
52.5°	8583.6	8222.1	7536.5	3892.8	690.8	405.4	233.7	164.0	192.4	162.7	113.6
55°	9847.7	9097.5	7972.9	3572.6	728.2	440.3	276.3	154.9	178.2	152.4	107.2
57.5°	11052.3	9801.2	8162.7	2826.3	853.5	454.5	302.1	158.8	157.5	139.4	102.0
60°	11217.6	9767.6	7779.2	1643.6	941.3	430.0	291.8	176.9	138.2	124.0	93.0
62.5°	10592.7	9118.2	6905.1	1025.2	874.1	420.9	259.5	201.4	125.2	109.7	81.3
65°	9643.7	8099.4	5757.3	661.1	662.4	467.4	227.2	197.5	117.5	96.8	69.7
67.5°	8160.1	6778.6	4535.8	442.9	374.4	399.0	198.8	135.6	114.9	82.6	54.2
70°	5956.1	4825.1	2952.9	295.7	223.4	318.9	166.6	96.8	108.5	68.4	38.7
72.5°	4353.8	3242.1	1648.8	193.7	126.5	185.9	122.7	69.7	83.9	50.4	27.1
75°	3133.6	2231.1	941.3	124.0	83.9	102.0	80.1	47.8	54.2	40.0	24.5
77.5°	1508.1	1087.2	427.4	68.4	56.8	51.6	42.6	29.7	33.6	36.2	21.9
80°	56.8	42.6	32.3	33.6	36.2	23.2	19.4	15.5	19.4	24.5	11.6
82.5°	0.0	0.0	0.0	3.9	5.2	6.5	7.7	6.5	7.7	9.0	1.3
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°	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5
2.5°	524.2	521.6	524.2	526.8	529.4	532.0	528.1	530.7	533.2	526.8	529.4
5°	482.9	481.6	489.3	493.2	498.4	501.0	498.4	498.4	497.1	489.3	489.3
7.5°	446.7	448.0	454.5	463.5	470.0	473.9	471.3	470.0	466.1	454.5	454.5
10°	419.6	419.6	430.0	437.7	446.7	450.6	448.0	444.2	440.3	428.7	427.4
12.5°	397.7	397.7	405.4	418.3	428.7	433.8	432.5	427.4	420.9	409.3	408.0
15°	377.0	375.7	387.3	399.0	413.2	419.6	417.0	413.2	401.6	391.2	388.6
17.5°	356.4	355.1	365.4	380.9	396.4	405.4	404.1	395.1	384.8	371.9	369.3
20°	335.7	333.1	346.0	361.5	377.0	386.1	383.5	375.7	362.8	349.9	347.3
22.5°	315.0	313.8	322.8	335.7	349.9	357.7	356.4	349.9	337.0	325.4	325.4
25°	291.8	291.8	298.3	307.3	317.6	321.5	322.8	320.2	312.5	306.0	306.0
27.5°	272.4	268.6	271.1	273.7	278.9	285.3	285.3	287.9	289.2	286.6	287.9
30°	256.9	250.5	246.6	241.4	238.9	241.4	244.0	253.1	262.1	267.3	269.9
32.5°	238.9	231.1	220.8	206.6	197.5	195.0	202.7	219.5	236.3	247.9	254.4
35°	220.8	210.5	191.1	170.4	158.8	154.9	164.0	183.3	207.9	228.5	237.6
37.5°	202.7	188.5	161.4	136.9	124.0	121.4	130.4	151.1	179.5	207.9	219.5
40°	182.1	165.3	133.0	107.2	96.8	94.3	102.0	122.7	152.4	184.6	202.7
42.5°	161.4	140.7	107.2	85.2	74.9	74.9	85.2	100.7	127.8	162.7	184.6
45°	140.7	118.8	87.8	68.4	62.0	63.3	69.7	85.2	107.2	143.3	164.0
47.5°	121.4	102.0	72.3	56.8	51.6	52.9	60.7	73.6	91.7	124.0	145.9
50°	104.6	86.5	63.3	47.8	43.9	46.5	54.2	65.8	81.3	109.7	127.8
52.5°	94.3	77.5	58.1	41.3	38.7	41.3	49.1	59.4	73.6	96.8	114.9
55°	89.1	76.2	58.1	37.4	33.6	36.2	43.9	54.2	65.8	87.8	103.3
57.5°	87.8	78.8	62.0	33.6	28.4	31.0	38.7	49.1	60.7	80.1	93.0
60°	82.6	74.9	60.7	27.1	21.9	25.8	32.3	42.6	55.5	74.9	86.5
62.5°	72.3	65.8	52.9	21.9	16.8	19.4	27.1	37.4	50.4	68.4	81.3
65°	59.4	52.9	41.3	14.2	10.3	12.9	20.7	32.3	43.9	62.0	73.6
67.5°	43.9	37.4	28.4	9.0	5.2	9.0	16.8	27.1	40.0	55.5	67.1
70°	27.1	21.9	15.5	5.2	3.9	7.7	15.5	25.8	36.2	51.6	63.3
72.5°	15.5	10.3	6.5	2.6	3.9	7.7	15.5	25.8	34.9	49.1	59.4
75°	11.6	6.5	2.6	1.3	2.6	6.5	14.2	23.2	33.6	46.5	56.8
77.5°	7.7	3.9	1.3	0.0	1.3	5.2	12.9	21.9	31.0	43.9	54.2
80°	1.3	0.0	0.0	0.0	0.0	3.9	11.6	19.4	28.4	38.7	47.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	9.0	16.8	24.5	32.3	38.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.9	19.4	24.5	27.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	12.9	15.5	18.1
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°	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5
2.5°	528.1	535.8	535.8	541.0	547.5	559.1	565.5	574.6	581.0	587.5	590.1
5°	488.1	489.3	490.6	493.2	501.0	513.9	525.5	539.7	556.5	569.4	577.1
7.5°	454.5	454.5	454.5	458.4	466.1	475.1	486.8	506.1	525.5	541.0	553.9
10°	426.1	430.0	431.2	437.7	446.7	458.4	471.3	488.1	510.0	530.7	553.9
12.5°	408.0	411.9	418.3	424.8	433.8	446.7	460.9	482.9	528.1	570.7	619.8
15°	391.2	396.4	404.1	413.2	423.5	437.7	453.2	498.4	604.3	684.3	761.8
17.5°	373.1	380.9	391.2	400.3	413.2	428.7	448.0	535.8	743.7	876.7	1008.4
20°	349.9	360.2	371.9	386.1	401.6	419.6	448.0	613.3	945.1	1136.2	1310.5
22.5°	328.0	338.3	352.5	370.6	388.6	406.7	454.5	730.8	1204.7	1446.1	1666.9
25°	309.9	322.8	337.0	352.5	373.1	393.8	470.0	896.1	1517.1	1828.3	1984.5
27.5°	293.1	308.6	322.8	335.7	353.8	377.0	504.8	1116.9	1886.4	2202.7	2325.4
30°	276.3	294.4	308.6	321.5	339.6	364.1	557.8	1398.3	2297.0	2604.3	2617.2
32.5°	262.1	278.9	295.7	308.6	325.4	353.8	631.4	1727.6	2717.9	3014.9	2893.5
35°	246.6	266.0	281.5	295.7	313.8	344.7	716.6	2082.6	3142.7	3391.9	3168.5
37.5°	231.1	253.1	272.4	282.8	300.8	335.7	778.6	2453.2	3576.5	3759.9	3410.0
40°	216.9	241.4	263.4	273.7	282.8	324.1	787.6	2832.8	4016.8	4122.7	3637.2
42.5°	201.4	228.5	247.9	262.1	269.9	316.3	733.4	3153.0	4386.1	4484.2	3934.2
45°	184.6	216.9	232.4	242.7	258.2	321.5	663.7	3400.9	4808.3	4977.4	4423.5
47.5°	167.9	204.0	216.9	224.7	245.3	352.5	637.8	3566.2	5504.2	5855.4	5248.6
50°	152.4	192.4	206.6	205.3	242.7	392.5	666.2	3691.4	6550.1	6963.2	6379.6
52.5°	135.6	179.5	196.3	191.1	262.1	423.5	723.0	3790.8	7354.4	8262.1	7899.3
55°	121.4	165.3	180.8	179.5	298.3	446.7	766.9	3266.6	7687.6	9469.4	9611.4
57.5°	111.0	149.8	162.7	184.6	321.5	446.7	887.0	2318.9	7694.0	10357.7	11883.8
60°	102.0	135.6	144.6	202.7	312.5	423.5	878.0	1420.3	7091.1	10297.0	13092.4
62.5°	94.3	122.7	134.3	207.9	276.3	419.6	792.8	880.6	6047.8	9513.3	12215.7
65°	87.8	112.3	129.1	191.1	250.5	449.3	534.5	632.7	4905.1	8619.8	11209.9
67.5°	81.3	103.3	136.9	156.2	227.2	401.6	386.1	449.3	3850.2	7639.8	10286.7
70°	76.2	98.1	144.6	127.8	198.8	313.8	273.7	340.9	2947.7	6374.5	8986.5
72.5°	72.3	91.7	121.4	100.7	161.4	242.7	191.1	247.9	1926.4	4976.1	7326.0
75°	68.4	83.9	89.1	81.3	120.1	158.8	144.6	166.6	1147.8	3637.2	5558.4
77.5°	67.1	78.8	72.3	65.8	81.3	94.3	109.7	112.3	560.4	1819.2	2912.9
80°	59.4	71.0	62.0	54.2	55.5	62.0	81.3	74.9	127.8	462.2	777.3
82.5°	46.5	55.5	51.6	45.2	45.2	45.2	54.2	50.4	41.3	207.9	351.2
85°	32.3	38.7	38.7	36.2	34.9	34.9	33.6	32.3	11.6	12.9	19.4
87.5°	21.9	27.1	28.4	27.1	23.2	20.7	18.1	15.5	5.2	0.0	2.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5	565.5
2.5°	599.1	603.0	603.0	597.8	593.9	583.6	573.3	562.9	560.4	559.1
5°	599.1	614.6	622.3	621.0	612.0	595.2	573.3	550.0	543.6	541.0
7.5°	590.1	619.8	643.0	646.9	630.1	600.4	560.4	525.5	516.5	512.6
10°	610.7	668.8	715.3	721.8	702.4	644.3	579.7	520.3	506.1	497.1
12.5°	721.8	817.3	874.1	901.2	863.8	790.2	683.0	577.1	544.9	530.7
15°	946.4	1082.0	1190.4	1190.4	1155.6	1025.2	889.6	717.9	674.0	635.3
17.5°	1234.3	1404.8	1500.3	1490.0	1437.1	1345.4	1182.7	936.1	847.0	807.0
20°	1562.3	1664.3	1686.3	1679.8	1656.6	1603.6	1491.3	1226.6	1106.5	1044.5
22.5°	1846.4	1819.2	1787.0	1761.1	1754.7	1770.2	1754.7	1550.7	1456.4	1346.7
25°	2038.7	1885.1	1788.3	1741.8	1763.7	1852.8	1949.7	1873.5	1798.6	1685.0
27.5°	2143.3	1877.3	1737.9	1690.1	1727.6	1854.1	2064.6	2193.7	2116.2	2062.0
30°	2200.1	1870.9	1705.6	1659.1	1716.0	1874.8	2144.6	2493.2	2495.8	2409.3
32.5°	2281.5	1912.2	1712.1	1669.5	1745.6	1936.7	2245.3	2797.9	2872.8	2826.3
35°	2373.2	1975.5	1741.8	1703.0	1797.3	2019.4	2357.7	3105.2	3261.5	3246.0
37.5°	2459.7	2046.5	1811.5	1774.1	1876.1	2090.4	2466.1	3407.4	3624.3	3678.5
40°	2550.0	2145.9	2025.8	2062.0	2118.8	2202.7	2563.0	3669.5	4023.3	4104.6
42.5°	2763.1	2490.6	2674.0	2742.4	2750.2	2577.2	2774.7	4005.2	4415.8	4512.6
45°	3238.2	3103.9	3629.5	3726.3	3675.9	3151.7	3284.7	4489.4	4964.5	5013.6
47.5°	3838.6	3900.6	4937.4	5271.8	4969.7	3829.6	3903.2	5508.1	5969.0	5951.0
50°	4538.4	4831.5	6422.2	7211.1	6488.1	4710.2	4615.9	6760.5	7319.6	7264.1
52.5°	5366.1	5913.5	8206.6	9327.3	8643.0	5700.5	5661.7	8419.7	8760.5	8583.6
55°	6408.0	6958.1	10259.6	11825.7	10852.2	6909.0	7042.0	10343.5	10409.3	9847.7
57.5°	7962.6	8320.2	12679.2	14690.8	13158.2	8551.4	9515.9	12903.9	12116.2	11052.3
60°	10785.1	10072.3	15017.5	17621.8	15611.4	10861.2	12778.6	14421.0	12684.4	11217.6
62.5°	11767.6	11559.8	16481.7	18861.3	17261.5	12758.0	13626.9	13561.1	11948.4	10592.7
65°	10278.9	11189.2	16219.6	18206.7	17049.8	12445.5	12228.6	12612.1	11119.5	9643.7
67.5°	9495.2	10319.0	15226.7	16400.3	15876.1	11385.5	10900.0	10795.4	9335.1	8160.1
70°	8705.0	9521.0	13787.0	13932.9	13688.9	9657.9	9020.0	8318.9	6977.4	5956.1
72.5°	7754.7	8204.0	11789.6	11097.5	10821.2	7585.6	7451.3	6264.7	5230.5	4353.8
75°	6763.1	6632.7	9191.8	7616.6	7823.1	5901.9	6293.1	4600.4	3832.2	3133.6
77.5°	4919.3	4822.5	6156.3	4626.2	5123.3	3865.7	3473.2	1836.0	1748.2	1508.1
80°	2745.0	3309.2	3324.7	2592.6	3234.4	2520.3	869.0	60.7	38.7	56.8
82.5°	1275.7	1422.9	1802.5	1202.1	1845.1	1248.6	179.5	0.0	0.0	0.0
85°	413.2	604.3	506.1	176.9	446.7	422.2	29.7	0.0	0.0	0.0
87.5°	24.5	50.4	12.9	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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