

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: P641286

Luminaire Tested: GWS-SA5F-750-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641286  
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-SA5F-750-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

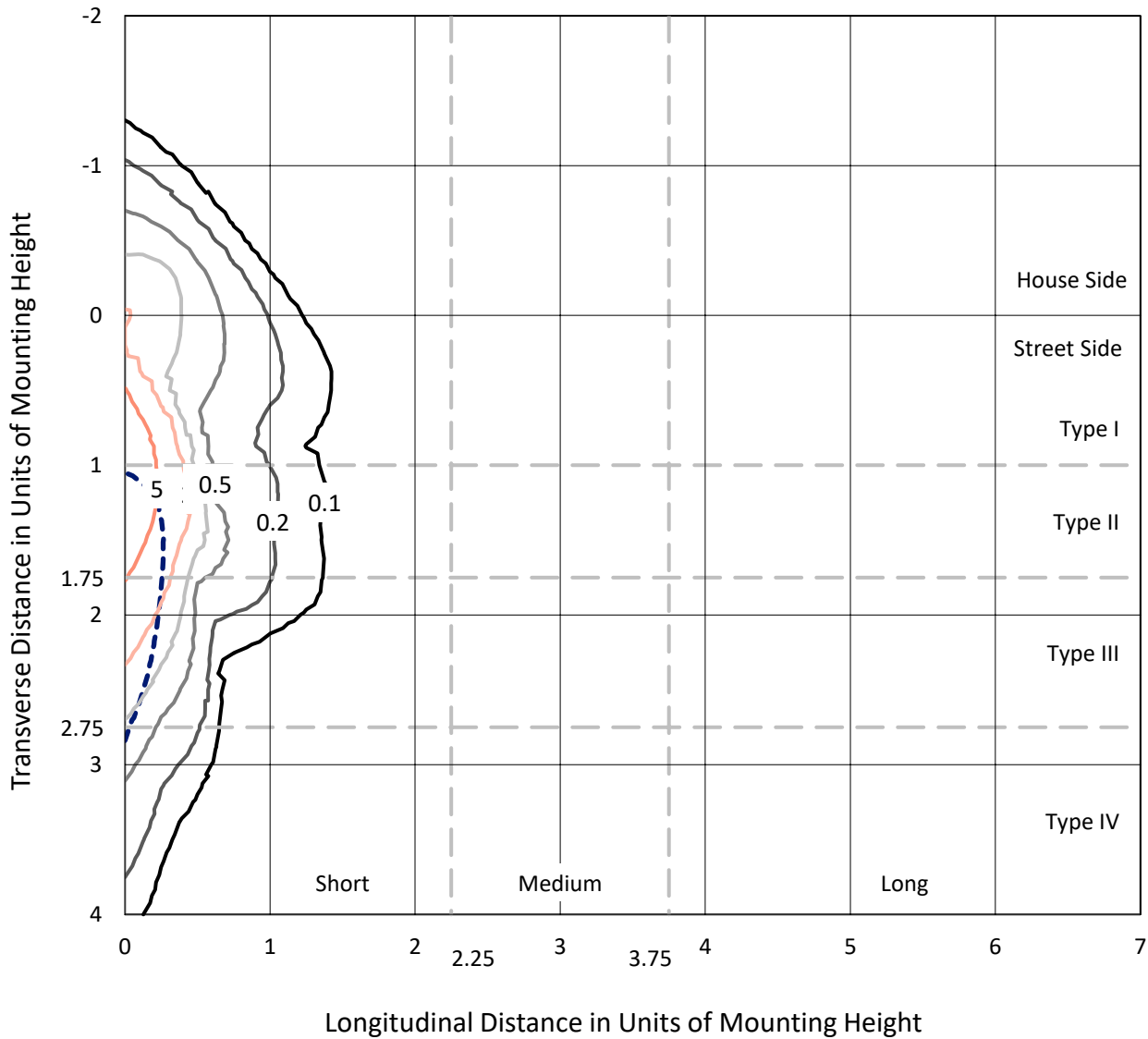
Lumens per Lamp: N/A  
Luminaire Lumens: 25850.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

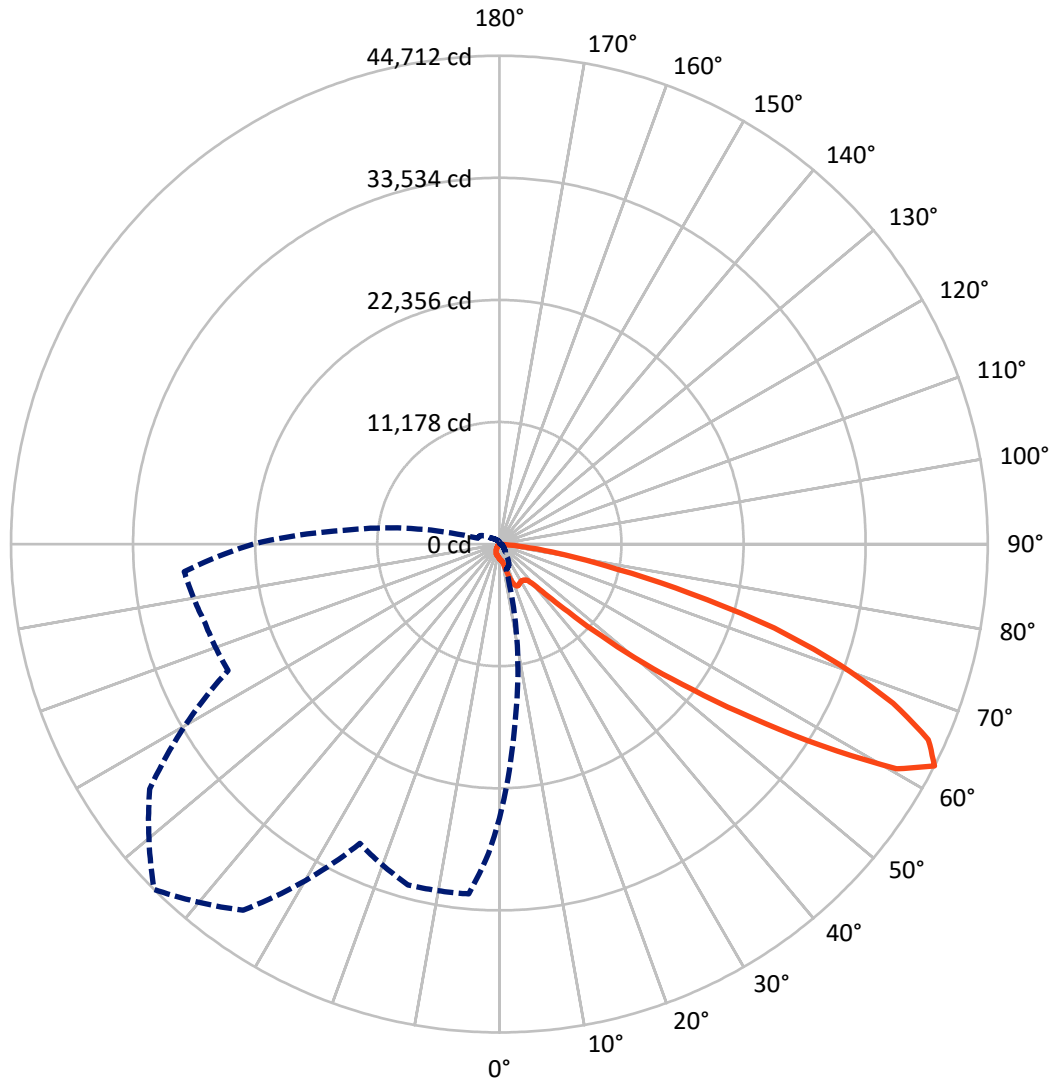
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3003.5	0.0	3003.5
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	22846.9	0.0	22846.9
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	25850.4	0.0	25850.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	0.4
10°-20°	396.8	1.5
20°-30°	896.4	3.5
30°-40°	1544.3	6.0
40°-50°	2913.1	11.3
50°-60°	6504.2	25.2
60°-70°	8699.2	33.7
70°-80°	4362.4	16.9
80°-90°	418.1	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°	25850.4	100.0
0°-180°	25850.4	100.0

**Coefficient of Utilization**



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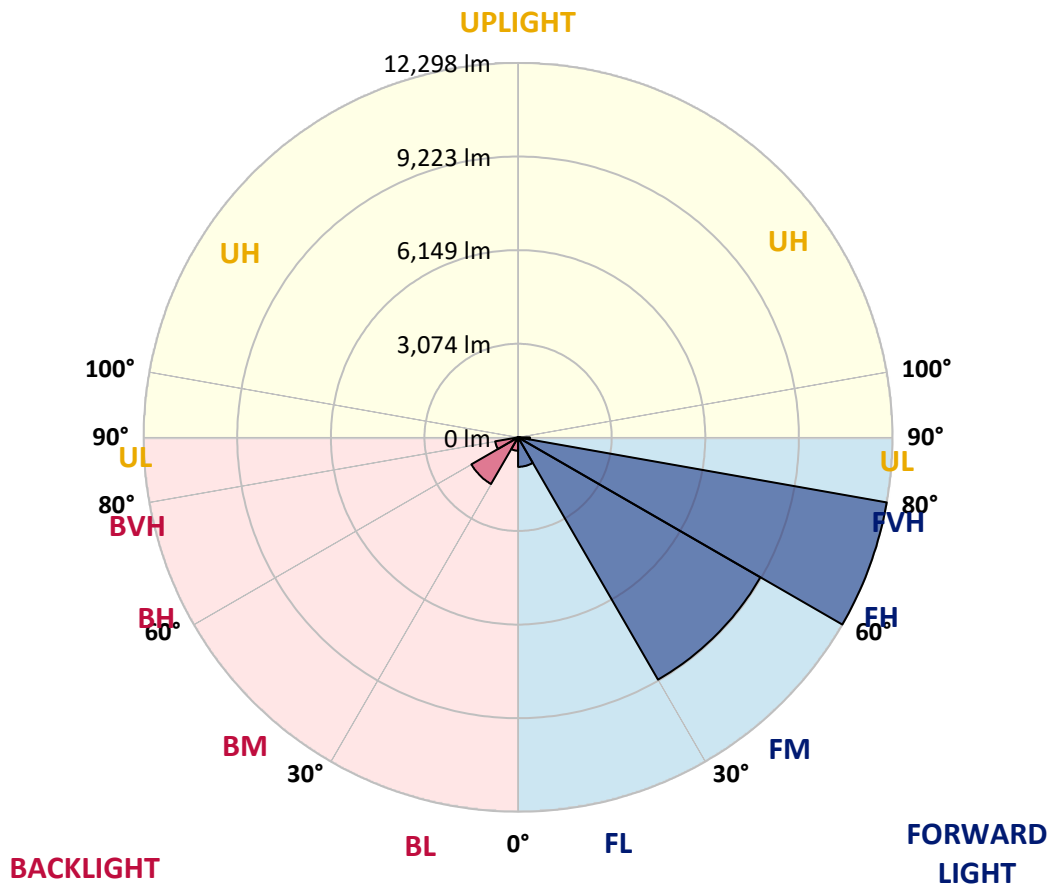
CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.1	3.7			
FM (30°-60°)	9190.6	35.6			
FH (60°-80°)	12297.9	47.6			G5
FVH (80°-90°)	390.3	1.5			G3/500
BL (0°-30°)	440.9	1.7	B1/500		
BM (30°-60°)	1771.0	6.9	B2/2500		
BH (60°-80°)	763.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	27.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1325.3	1322.3	1316.2	1297.8	1282.5	1273.3	1254.9	1254.9	1251.9	1245.8	1233.5
5°	1282.5	1270.2	1258.0	1224.3	1187.6	1166.2	1141.7	1138.6	1138.6	1132.5	1129.4
7.5°	1215.1	1202.9	1187.6	1132.5	1098.8	1077.4	1056.0	1052.9	1043.7	1043.7	1043.7
10°	1178.4	1160.1	1135.6	1074.3	1040.7	1022.3	1007.0	997.8	991.7	982.5	979.5
12.5°	1258.0	1224.3	1172.3	1062.1	1016.2	991.7	973.3	967.2	948.9	936.6	927.4
15°	1505.9	1423.3	1319.2	1089.7	1007.0	970.3	945.8	933.5	918.2	896.8	881.5
17.5°	1913.0	1793.6	1619.2	1178.4	997.8	951.9	921.3	899.9	878.5	854.0	835.6
20°	2476.2	2298.7	2090.5	1340.6	997.8	930.5	893.8	866.2	835.6	808.1	786.6
22.5°	3192.4	3014.9	2659.9	1616.1	1010.1	902.9	860.1	823.4	786.6	762.1	737.7
25°	3994.4	3743.4	3412.8	1949.7	1043.7	866.2	820.3	783.6	749.9	719.3	691.7
27.5°	4888.1	4615.7	4175.0	2424.2	1117.2	829.5	777.4	743.8	713.2	682.6	645.8
30°	5711.5	5549.3	5099.3	2993.5	1236.6	805.0	743.8	713.2	682.6	642.8	609.1
32.5°	6700.1	6412.4	6042.1	3642.4	1395.7	780.5	716.2	673.4	648.9	612.2	575.4
35°	7694.9	7450.0	6963.4	4441.2	1573.3	756.0	682.6	642.8	621.3	578.5	538.7
37.5°	8720.3	8665.2	8184.6	5325.8	1747.7	728.5	642.8	618.3	596.9	547.9	502.0
40°	9730.3	9629.3	9185.5	6335.9	1854.9	697.9	609.1	593.8	569.3	514.2	462.2
42.5°	10697.6	10621.0	10189.5	7303.1	1839.6	670.3	575.4	557.1	538.7	483.6	419.3
45°	11885.2	11759.7	11214.8	8019.3	1683.5	700.9	541.8	511.2	508.1	456.1	376.5
47.5°	14107.3	13694.1	12769.7	8570.3	1527.3	780.5	505.0	468.3	489.7	428.5	333.6
50°	17220.2	16733.5	15395.9	8998.8	1524.3	884.6	498.9	428.5	474.4	407.1	296.9
52.5°	20348.3	19491.3	17866.0	9228.4	1637.5	961.1	554.0	388.7	456.1	385.7	269.4
55°	23344.9	21566.5	18900.6	8469.3	1726.3	1043.7	655.0	367.3	422.4	361.2	254.0
57.5°	26200.6	23234.7	19350.5	6700.1	2023.2	1077.4	716.2	376.5	373.4	330.6	241.8
60°	26592.4	23155.1	18441.4	3896.4	2231.3	1019.3	691.7	419.3	327.5	293.8	220.4
62.5°	25111.0	21615.5	16369.3	2430.3	2072.2	997.8	615.2	477.5	296.9	260.2	192.8
65°	22861.3	19200.5	13648.2	1567.1	1570.2	1108.0	538.7	468.3	278.5	229.6	165.3
67.5°	19344.4	16069.3	10752.7	1049.9	887.6	945.8	471.4	321.4	272.4	195.9	128.6
70°	14119.6	11438.3	7000.1	700.9	529.5	756.0	394.8	229.6	257.1	162.2	91.8
72.5°	10321.1	7685.7	3908.7	459.1	300.0	440.8	290.8	165.3	199.0	119.4	64.3
75°	7428.6	5289.1	2231.3	293.8	199.0	241.8	189.8	113.3	128.6	94.9	58.2
77.5°	3575.0	2577.2	1013.1	162.2	134.7	122.4	101.0	70.4	79.6	85.7	52.0
80°	134.7	101.0	76.5	79.6	85.7	55.1	45.9	36.7	45.9	58.2	27.5
82.5°	0.0	0.0	0.0	9.2	12.2	15.3	18.4	15.3	18.4	21.4	3.1
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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1242.7	1236.6	1242.7	1248.8	1254.9	1261.1	1251.9	1258.0	1264.1	1248.8	1254.9
5°	1144.7	1141.7	1160.1	1169.2	1181.5	1187.6	1181.5	1181.5	1178.4	1160.1	1160.1
7.5°	1059.0	1062.1	1077.4	1098.8	1114.1	1123.3	1117.2	1114.1	1105.0	1077.4	1077.4
10°	994.8	994.8	1019.3	1037.6	1059.0	1068.2	1062.1	1052.9	1043.7	1016.2	1013.1
12.5°	942.7	942.7	961.1	991.7	1016.2	1028.4	1025.4	1013.1	997.8	970.3	967.2
15°	893.8	890.7	918.2	945.8	979.5	994.8	988.6	979.5	951.9	927.4	921.3
17.5°	844.8	841.7	866.2	902.9	939.7	961.1	958.0	936.6	912.1	881.5	875.4
20°	795.8	789.7	820.3	857.0	893.8	915.2	909.1	890.7	860.1	829.5	823.4
22.5°	746.8	743.8	765.2	795.8	829.5	847.8	844.8	829.5	798.9	771.3	771.3
25°	691.7	691.7	707.0	728.5	753.0	762.1	765.2	759.1	740.7	725.4	725.4
27.5°	645.8	636.7	642.8	648.9	661.1	676.4	676.4	682.6	685.6	679.5	682.6
30°	609.1	593.8	584.6	572.4	566.3	572.4	578.5	599.9	621.3	633.6	639.7
32.5°	566.3	547.9	523.4	489.7	468.3	462.2	480.5	520.3	560.1	587.7	603.0
35°	523.4	498.9	453.0	404.0	376.5	367.3	388.7	434.6	492.8	541.8	563.2
37.5°	480.5	446.9	382.6	324.4	293.8	287.7	309.1	358.1	425.5	492.8	520.3
40°	431.6	391.8	315.3	254.0	229.6	223.4	241.8	290.8	361.2	437.7	480.5
42.5°	382.6	333.6	254.0	202.0	177.5	177.5	202.0	238.7	303.0	385.7	437.7
45°	333.6	281.6	208.1	162.2	146.9	150.0	165.3	202.0	254.0	339.8	388.7
47.5°	287.7	241.8	171.4	134.7	122.4	125.5	143.9	174.5	217.3	293.8	345.9
50°	247.9	205.1	150.0	113.3	104.1	110.2	128.6	156.1	192.8	260.2	303.0
52.5°	223.4	183.6	137.7	97.9	91.8	97.9	116.3	140.8	174.5	229.6	272.4
55°	211.2	180.6	137.7	88.8	79.6	85.7	104.1	128.6	156.1	208.1	244.9
57.5°	208.1	186.7	146.9	79.6	67.3	73.5	91.8	116.3	143.9	189.8	220.4
60°	195.9	177.5	143.9	64.3	52.0	61.2	76.5	101.0	131.6	177.5	205.1
62.5°	171.4	156.1	125.5	52.0	39.8	45.9	64.3	88.8	119.4	162.2	192.8
65°	140.8	125.5	97.9	33.7	24.5	30.6	49.0	76.5	104.1	146.9	174.5
67.5°	104.1	88.8	67.3	21.4	12.2	21.4	39.8	64.3	94.9	131.6	159.2
70°	64.3	52.0	36.7	12.2	9.2	18.4	36.7	61.2	85.7	122.4	150.0
72.5°	36.7	24.5	15.3	6.1	9.2	18.4	36.7	61.2	82.6	116.3	140.8
75°	27.5	15.3	6.1	3.1	6.1	15.3	33.7	55.1	79.6	110.2	134.7
77.5°	18.4	9.2	3.1	0.0	3.1	12.2	30.6	52.0	73.5	104.1	128.6
80°	3.1	0.0	0.0	0.0	0.0	9.2	27.5	45.9	67.3	91.8	113.3
82.5°	0.0	0.0	0.0	0.0	0.0	3.1	21.4	39.8	58.2	76.5	91.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	12.2	30.6	45.9	58.2	64.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	30.6	36.7	42.9
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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1251.9	1270.2	1270.2	1282.5	1297.8	1325.3	1340.6	1362.1	1377.4	1392.7	1398.8
5°	1157.0	1160.1	1163.1	1169.2	1187.6	1218.2	1245.8	1279.4	1319.2	1349.8	1368.2
7.5°	1077.4	1077.4	1077.4	1086.6	1105.0	1126.4	1153.9	1199.8	1245.8	1282.5	1313.1
10°	1010.1	1019.3	1022.3	1037.6	1059.0	1086.6	1117.2	1157.0	1209.0	1258.0	1313.1
12.5°	967.2	976.4	991.7	1007.0	1028.4	1059.0	1092.7	1144.7	1251.9	1352.9	1469.2
15°	927.4	939.7	958.0	979.5	1003.9	1037.6	1074.3	1181.5	1432.5	1622.2	1805.9
17.5°	884.6	902.9	927.4	948.9	979.5	1016.2	1062.1	1270.2	1763.0	2078.3	2390.5
20°	829.5	854.0	881.5	915.2	951.9	994.8	1062.1	1453.9	2240.5	2693.5	3106.7
22.5°	777.4	801.9	835.6	878.5	921.3	964.2	1077.4	1732.4	2855.7	3428.1	3951.5
25°	734.6	765.2	798.9	835.6	884.6	933.5	1114.1	2124.2	3596.5	4334.1	4704.5
27.5°	694.8	731.5	765.2	795.8	838.7	893.8	1196.8	2647.6	4471.9	5221.8	5512.5
30°	655.0	697.9	731.5	762.1	805.0	863.2	1322.3	3314.9	5445.2	6173.7	6204.3
32.5°	621.3	661.1	700.9	731.5	771.3	838.7	1496.7	4095.4	6443.0	7147.0	6859.3
35°	584.6	630.5	667.3	700.9	743.8	817.2	1698.8	4937.1	7450.0	8040.8	7511.3
37.5°	547.9	599.9	645.8	670.3	713.2	795.8	1845.7	5815.6	8478.5	8913.1	8083.6
40°	514.2	572.4	624.4	648.9	670.3	768.3	1867.1	6715.4	9522.2	9773.2	8622.3
42.5°	477.5	541.8	587.7	621.3	639.7	749.9	1738.5	7474.5	10397.6	10630.2	9326.3
45°	437.7	514.2	550.9	575.4	612.2	762.1	1573.3	8062.2	11398.5	11799.5	10486.4
47.5°	397.9	483.6	514.2	532.6	581.6	835.6	1512.0	8454.0	13048.3	13880.8	12442.2
50°	361.2	456.1	489.7	486.7	575.4	930.5	1579.4	8750.9	15527.5	16507.0	15123.5
52.5°	321.4	425.5	465.2	453.0	621.3	1003.9	1714.1	8986.6	17434.4	19586.2	18726.1
55°	287.7	391.8	428.5	425.5	707.0	1059.0	1818.1	7743.9	18224.1	22448.0	22784.7
57.5°	263.2	355.1	385.7	437.7	762.1	1059.0	2102.8	5497.2	18239.4	24553.9	28171.8
60°	241.8	321.4	342.8	480.5	740.7	1003.9	2081.4	3366.9	16810.0	24410.0	31036.7
62.5°	223.4	290.8	318.3	492.8	655.0	994.8	1879.3	2087.5	14336.9	22552.1	28958.4
65°	208.1	266.3	306.1	453.0	593.8	1065.2	1267.2	1499.8	11628.1	20434.0	26574.0
67.5°	192.8	244.9	324.4	370.4	538.7	951.9	915.2	1065.2	9127.4	18110.9	24385.5
70°	180.6	232.6	342.8	303.0	471.4	743.8	648.9	808.1	6987.9	15111.3	21303.3
72.5°	171.4	217.3	287.7	238.7	382.6	575.4	453.0	587.7	4566.7	11796.4	17367.1
75°	162.2	199.0	211.2	192.8	284.7	376.5	342.8	394.8	2721.1	8622.3	13176.8
77.5°	159.2	186.7	171.4	156.1	192.8	223.4	260.2	266.3	1328.4	4312.7	6905.2
80°	140.8	168.3	146.9	128.6	131.6	146.9	192.8	177.5	303.0	1095.8	1842.6
82.5°	110.2	131.6	122.4	107.1	107.1	107.1	128.6	119.4	97.9	492.8	832.5
85°	76.5	91.8	91.8	85.7	82.6	82.6	79.6	76.5	27.5	30.6	45.9
87.5°	52.0	64.3	67.3	64.3	55.1	49.0	42.9	36.7	12.2	0.0	6.1
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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1420.2	1429.4	1429.4	1417.2	1408.0	1383.5	1359.0	1334.5	1328.4	1325.3
5°	1420.2	1457.0	1475.3	1472.3	1450.8	1411.0	1359.0	1303.9	1288.6	1282.5
7.5°	1398.8	1469.2	1524.3	1533.5	1493.7	1423.3	1328.4	1245.8	1224.3	1215.1
10°	1447.8	1585.5	1695.7	1711.0	1665.1	1527.3	1374.3	1233.5	1199.8	1178.4
12.5°	1711.0	1937.5	2072.2	2136.5	2047.7	1873.2	1619.2	1368.2	1291.7	1258.0
15°	2243.6	2565.0	2822.1	2822.1	2739.4	2430.3	2108.9	1701.8	1597.7	1505.9
17.5°	2926.1	3330.2	3556.7	3532.2	3406.7	3189.4	2803.7	2219.1	2007.9	1913.0
20°	3703.6	3945.4	3997.4	3982.1	3927.0	3801.5	3535.2	2907.8	2623.1	2476.2
22.5°	4377.0	4312.7	4236.2	4175.0	4159.7	4196.4	4159.7	3676.0	3452.6	3192.4
25°	4833.0	4468.8	4239.2	4129.0	4181.1	4392.3	4621.8	4441.2	4263.7	3994.4
27.5°	5081.0	4450.4	4119.9	4006.6	4095.4	4395.3	4894.3	5200.3	5016.7	4888.1
30°	5215.6	4435.1	4043.3	3933.2	4067.8	4444.3	5084.0	5910.4	5916.6	5711.5
32.5°	5408.5	4533.1	4058.6	3957.6	4138.2	4591.2	5322.8	6632.8	6810.3	6700.1
35°	5625.8	4683.1	4129.0	4037.2	4260.7	4787.1	5589.1	7361.3	7731.6	7694.9
37.5°	5830.9	4851.4	4294.3	4205.6	4447.4	4955.5	5846.2	8077.5	8591.7	8720.3
40°	6045.1	5087.1	4802.4	4888.1	5022.8	5221.8	6075.7	8698.8	9537.5	9730.3
42.5°	6550.2	5904.3	6339.0	6501.2	6519.5	6109.4	6577.7	9494.7	10468.0	10697.6
45°	7676.5	7358.2	8604.0	8833.5	8714.2	7471.5	7786.7	10642.5	11768.9	11885.2
47.5°	9099.8	9246.7	11704.6	12497.3	11781.1	9078.4	9252.9	13057.5	14150.2	14107.3
50°	10758.8	11453.6	15224.5	17094.7	15380.6	11165.9	10942.4	16026.5	17351.8	17220.2
52.5°	12720.8	14018.6	19454.6	22111.4	20489.1	13513.5	13421.7	19959.6	20767.7	20348.3
55°	15190.8	16494.8	24321.3	28034.0	25726.2	16378.4	16693.7	24520.2	24676.3	23344.9
57.5°	18876.1	19723.9	30057.2	34826.0	31192.8	20271.8	22558.2	30589.8	28722.7	26200.6
60°	25567.0	23877.5	35600.4	41774.1	37008.4	25747.6	30292.9	34186.3	30069.5	26592.4
62.5°	27896.3	27403.5	39071.4	44712.4	40920.1	30244.0	32303.9	32147.8	28324.8	25111.0
65°	24367.2	26525.1	38450.0	43160.6	40418.1	29503.2	28989.0	29898.1	26359.8	22861.3
67.5°	22509.3	24462.1	36096.2	38878.5	37635.8	26990.3	25839.4	25591.5	22129.7	19344.4
70°	20636.0	22570.5	32683.4	33029.3	32450.8	22894.9	21382.9	19720.9	16540.7	14119.6
72.5°	18383.3	19448.4	27948.3	26307.7	25652.7	17982.3	17664.0	14851.1	12399.4	10321.1
75°	16032.6	15723.4	21790.0	18055.8	18545.5	13991.0	14918.4	10905.7	9084.5	7428.6
77.5°	11661.7	11432.2	14594.0	10966.9	12145.3	9164.1	8233.6	4352.5	4144.3	3575.0
80°	6507.3	7844.9	7881.6	6146.1	7667.4	5974.7	2059.9	143.9	91.8	134.7
82.5°	3024.1	3373.0	4272.9	2849.6	4373.9	2959.8	425.5	0.0	0.0	0.0
85°	979.5	1432.5	1199.8	419.3	1059.0	1000.9	70.4	0.0	0.0	0.0
87.5°	58.2	119.4	30.6	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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