

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: P642661

Luminaire Tested: GWS-SA6D-735-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642661  
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-SA6D-735-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

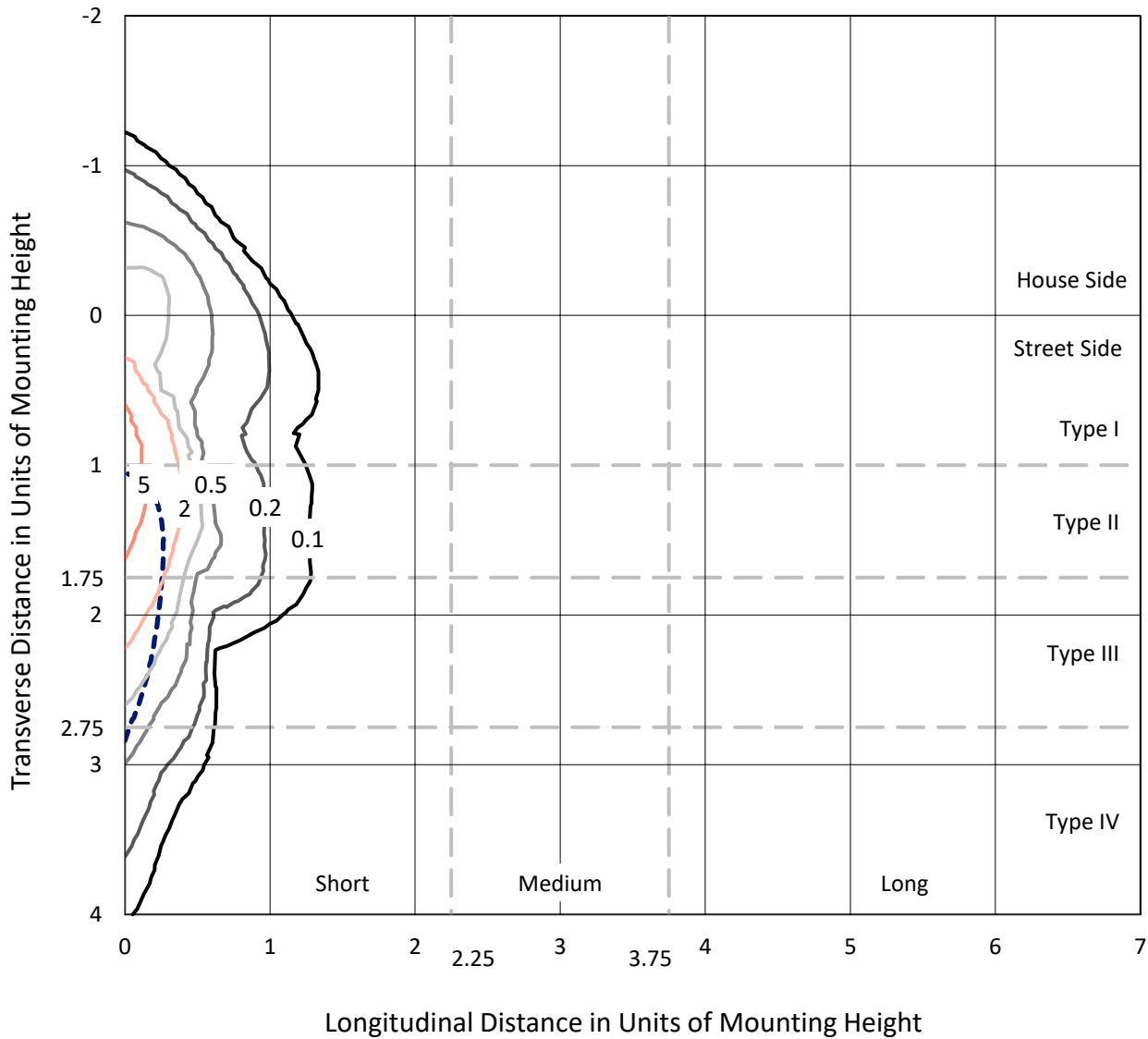
Lumens per Lamp: N/A  
Luminaire Lumens: 21391.7 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

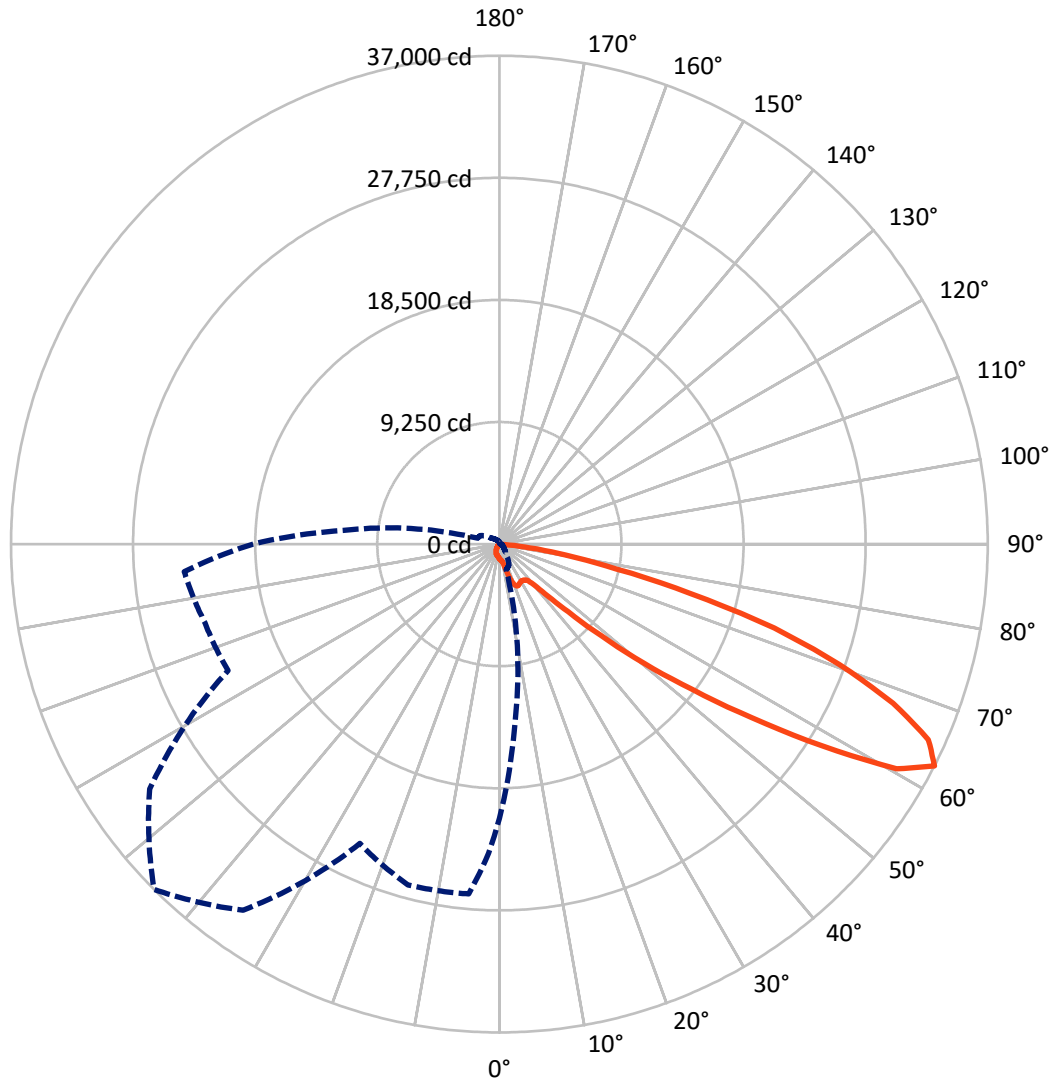
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2485.4	0.0	2485.4
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	18906.3	0.0	18906.3
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	21391.7	0.0	21391.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	0.4
10°-20°	328.4	1.5
20°-30°	741.8	3.5
30°-40°	1277.9	6.0
40°-50°	2410.7	11.3
50°-60°	5382.3	25.2
60°-70°	7198.8	33.7
70°-80°	3610.0	16.9
80°-90°	346.0	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°	21391.7	100.0
0°-180°	21391.7	100.0

**Coefficient of Utilization**



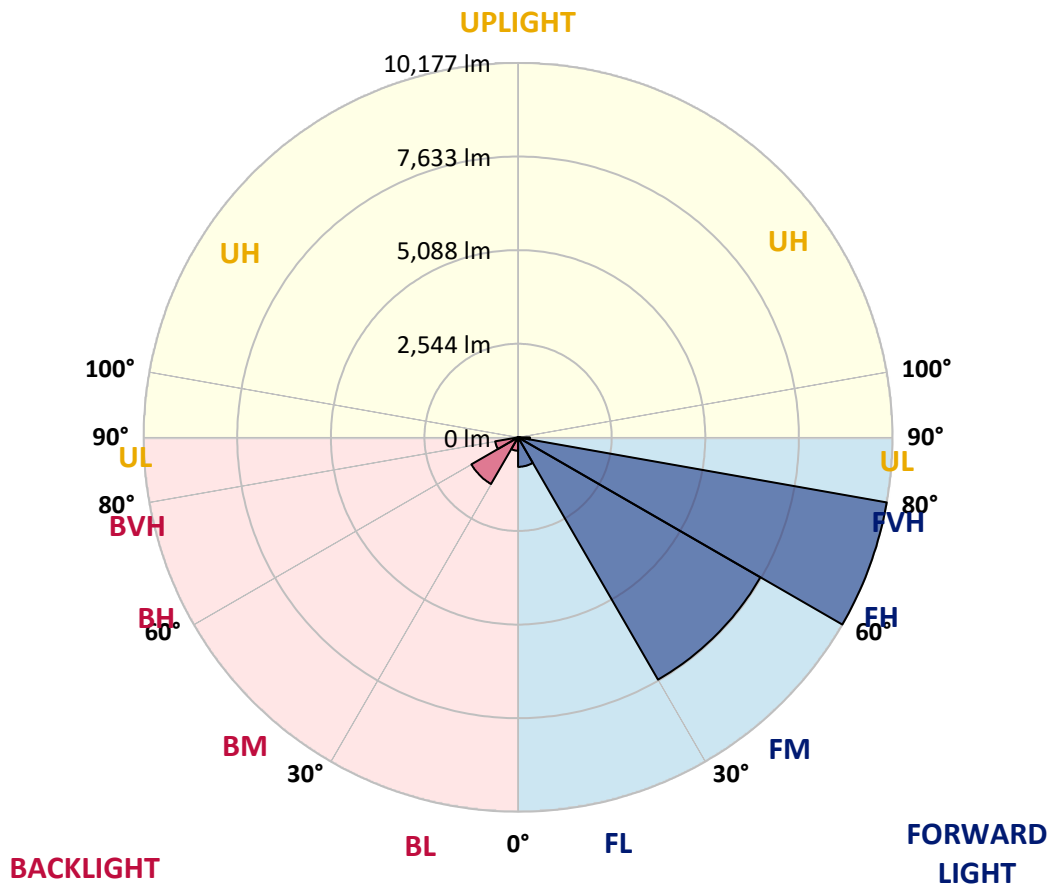
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.1	3.7			
FM (30°-60°)	7605.4	35.6			
FH (60°-80°)	10176.7	47.6			G4/12000
FVH (80°-90°)	323.0	1.5			G3/500
BL (0°-30°)	364.8	1.7	B1/500		
BM (30°-60°)	1465.6	6.9	B2/2500		
BH (60°-80°)	632.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	23.0	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1096.7	1094.2	1089.1	1073.9	1061.3	1053.7	1038.5	1038.5	1036.0	1030.9	1020.8
5°	1061.3	1051.1	1041.0	1013.2	982.8	965.0	944.8	942.2	942.2	937.2	934.6
7.5°	1005.6	995.4	982.8	937.2	909.3	891.6	873.8	871.3	863.7	863.7	863.7
10°	975.2	960.0	939.7	889.0	861.2	846.0	833.3	825.7	820.7	813.1	810.5
12.5°	1041.0	1013.2	970.1	878.9	840.9	820.7	805.5	800.4	785.2	775.1	767.5
15°	1246.2	1177.8	1091.7	901.7	833.3	802.9	782.7	772.5	759.9	742.1	729.5
17.5°	1583.1	1484.3	1339.9	975.2	825.7	787.7	762.4	744.7	726.9	706.7	691.5
20°	2049.1	1902.2	1730.0	1109.4	825.7	770.0	739.6	716.8	691.5	668.7	651.0
22.5°	2641.8	2494.9	2201.1	1337.4	835.9	747.2	711.7	681.3	651.0	630.7	610.4
25°	3305.4	3097.7	2824.2	1613.4	863.7	716.8	678.8	648.4	620.6	595.2	572.4
27.5°	4045.0	3819.6	3454.9	2006.0	924.5	686.4	643.4	615.5	590.2	564.8	534.4
30°	4726.4	4592.1	4219.8	2477.2	1023.3	666.1	615.5	590.2	564.8	531.9	504.0
32.5°	5544.5	5306.4	4999.9	3014.1	1155.0	645.9	592.7	557.2	537.0	506.6	476.2
35°	6367.7	6165.0	5762.3	3675.2	1301.9	625.6	564.8	531.9	514.2	478.7	445.8
37.5°	7216.2	7170.6	6772.9	4407.2	1446.3	602.8	531.9	511.6	493.9	453.4	415.4
40°	8052.0	7968.5	7601.2	5243.1	1534.9	577.5	504.0	491.4	471.1	425.5	382.5
42.5°	8852.4	8789.1	8432.0	6043.5	1522.3	554.7	476.2	461.0	445.8	400.2	347.0
45°	9835.2	9731.4	9280.5	6636.2	1393.1	580.0	448.3	423.0	420.5	377.4	311.5
47.5°	11674.1	11332.1	10567.2	7092.1	1263.9	645.9	417.9	387.5	405.3	354.6	276.1
50°	14250.0	13847.3	12740.4	7446.7	1261.4	732.0	412.9	354.6	392.6	336.9	245.7
52.5°	16838.6	16129.4	14784.5	7636.7	1355.1	795.3	458.5	321.7	377.4	319.1	222.9
55°	19318.3	17846.7	15640.6	7008.5	1428.5	863.7	542.0	303.9	349.5	298.9	210.2
57.5°	21681.5	19227.1	16012.9	5544.5	1674.2	891.6	592.7	311.5	309.0	273.6	200.1
60°	22005.7	19161.3	15260.6	3224.4	1846.5	843.5	572.4	347.0	271.0	243.2	182.4
62.5°	20779.8	17887.2	13545.9	2011.1	1714.8	825.7	509.1	395.1	245.7	215.3	159.6
65°	18918.1	15888.8	11294.1	1296.8	1299.4	916.9	445.8	387.5	230.5	190.0	136.8
67.5°	16007.8	13297.7	8898.0	868.8	734.5	782.7	390.1	266.0	225.4	162.1	106.4
70°	11684.2	9465.4	5792.7	580.0	438.2	625.6	326.7	190.0	212.8	134.2	76.0
72.5°	8540.9	6360.1	3234.5	379.9	248.2	364.7	240.6	136.8	164.6	98.8	53.2
75°	6147.3	4376.8	1846.5	243.2	164.6	200.1	157.0	93.7	106.4	78.5	48.1
77.5°	2958.4	2132.7	838.4	134.2	111.4	101.3	83.6	58.3	65.9	70.9	43.1
80°	111.4	83.6	63.3	65.9	70.9	45.6	38.0	30.4	38.0	48.1	22.8
82.5°	0.0	0.0	0.0	7.6	10.1	12.7	15.2	12.7	15.2	17.7	2.5
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°	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1028.4	1023.3	1028.4	1033.4	1038.5	1043.5	1036.0	1041.0	1046.1	1033.4	1038.5
5°	947.3	944.8	960.0	967.6	977.7	982.8	977.7	977.7	975.2	960.0	960.0
7.5°	876.4	878.9	891.6	909.3	922.0	929.6	924.5	922.0	914.4	891.6	891.6
10°	823.2	823.2	843.5	858.6	876.4	884.0	878.9	871.3	863.7	840.9	838.4
12.5°	780.1	780.1	795.3	820.7	840.9	851.0	848.5	838.4	825.7	802.9	800.4
15°	739.6	737.1	759.9	782.7	810.5	823.2	818.1	810.5	787.7	767.5	762.4
17.5°	699.1	696.5	716.8	747.2	777.6	795.3	792.8	775.1	754.8	729.5	724.4
20°	658.6	653.5	678.8	709.2	739.6	757.3	752.3	737.1	711.7	686.4	681.3
22.5°	618.0	615.5	633.2	658.6	686.4	701.6	699.1	686.4	661.1	638.3	638.3
25°	572.4	572.4	585.1	602.8	623.1	630.7	633.2	628.2	613.0	600.3	600.3
27.5°	534.4	526.8	531.9	537.0	547.1	559.8	559.8	564.8	567.4	562.3	564.8
30°	504.0	491.4	483.8	473.6	468.6	473.6	478.7	496.4	514.2	524.3	529.4
32.5°	468.6	453.4	433.1	405.3	387.5	382.5	397.7	430.6	463.5	486.3	499.0
35°	433.1	412.9	374.9	334.3	311.5	303.9	321.7	359.7	407.8	448.3	466.1
37.5°	397.7	369.8	316.6	268.5	243.2	238.1	255.8	296.3	352.1	407.8	430.6
40°	357.1	324.2	260.9	210.2	190.0	184.9	200.1	240.6	298.9	362.2	397.7
42.5°	316.6	276.1	210.2	167.2	146.9	146.9	167.2	197.6	250.8	319.1	362.2
45°	276.1	233.0	172.2	134.2	121.6	124.1	136.8	167.2	210.2	281.2	321.7
47.5°	238.1	200.1	141.8	111.4	101.3	103.8	119.0	144.4	179.8	243.2	286.2
50°	205.2	169.7	124.1	93.7	86.1	91.2	106.4	129.2	159.6	215.3	250.8
52.5°	184.9	152.0	114.0	81.1	76.0	81.1	96.2	116.5	144.4	190.0	225.4
55°	174.8	149.4	114.0	73.5	65.9	70.9	86.1	106.4	129.2	172.2	202.6
57.5°	172.2	154.5	121.6	65.9	55.7	60.8	76.0	96.2	119.0	157.0	182.4
60°	162.1	146.9	119.0	53.2	43.1	50.7	63.3	83.6	108.9	146.9	169.7
62.5°	141.8	129.2	103.8	43.1	32.9	38.0	53.2	73.5	98.8	134.2	159.6
65°	116.5	103.8	81.1	27.9	20.3	25.3	40.5	63.3	86.1	121.6	144.4
67.5°	86.1	73.5	55.7	17.7	10.1	17.7	32.9	53.2	78.5	108.9	131.7
70°	53.2	43.1	30.4	10.1	7.6	15.2	30.4	50.7	70.9	101.3	124.1
72.5°	30.4	20.3	12.7	5.1	7.6	15.2	30.4	50.7	68.4	96.2	116.5
75°	22.8	12.7	5.1	2.5	5.1	12.7	27.9	45.6	65.9	91.2	111.4
77.5°	15.2	7.6	2.5	0.0	2.5	10.1	25.3	43.1	60.8	86.1	106.4
80°	2.5	0.0	0.0	0.0	0.0	7.6	22.8	38.0	55.7	76.0	93.7
82.5°	0.0	0.0	0.0	0.0	0.0	2.5	17.7	32.9	48.1	63.3	76.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.1	25.3	38.0	48.1	53.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	25.3	30.4	35.5
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°	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1036.0	1051.1	1051.1	1061.3	1073.9	1096.7	1109.4	1127.1	1139.8	1152.5	1157.5
5°	957.4	960.0	962.5	967.6	982.8	1008.1	1030.9	1058.7	1091.7	1117.0	1132.2
7.5°	891.6	891.6	891.6	899.2	914.4	932.1	954.9	992.9	1030.9	1061.3	1086.6
10°	835.9	843.5	846.0	858.6	876.4	899.2	924.5	957.4	1000.5	1041.0	1086.6
12.5°	800.4	808.0	820.7	833.3	851.0	876.4	904.2	947.3	1036.0	1119.5	1215.8
15°	767.5	777.6	792.8	810.5	830.8	858.6	889.0	977.7	1185.4	1342.4	1494.4
17.5°	732.0	747.2	767.5	785.2	810.5	840.9	878.9	1051.1	1458.9	1719.8	1978.2
20°	686.4	706.7	729.5	757.3	787.7	823.2	878.9	1203.1	1854.1	2228.9	2570.9
22.5°	643.4	663.6	691.5	726.9	762.4	797.9	891.6	1433.6	2363.2	2836.8	3270.0
25°	607.9	633.2	661.1	691.5	732.0	772.5	922.0	1757.8	2976.1	3586.6	3893.0
27.5°	575.0	605.4	633.2	658.6	694.0	739.6	990.4	2190.9	3700.5	4321.1	4561.7
30°	542.0	577.5	605.4	630.7	666.1	714.3	1094.2	2743.1	4506.0	5108.8	5134.2
32.5°	514.2	547.1	580.0	605.4	638.3	694.0	1238.6	3389.0	5331.7	5914.3	5676.2
35°	483.8	521.8	552.2	580.0	615.5	676.3	1405.8	4085.5	6165.0	6653.9	6215.7
37.5°	453.4	496.4	534.4	554.7	590.2	658.6	1527.3	4812.5	7016.1	7375.8	6689.4
40°	425.5	473.6	516.7	537.0	554.7	635.8	1545.1	5557.2	7879.8	8087.5	7135.1
42.5°	395.1	448.3	486.3	514.2	529.4	620.6	1438.7	6185.3	8604.2	8796.7	7717.7
45°	362.2	425.5	455.9	476.2	506.6	630.7	1301.9	6671.6	9432.5	9764.3	8677.7
47.5°	329.3	400.2	425.5	440.7	481.2	691.5	1251.2	6995.8	10797.7	11486.6	10296.2
50°	298.9	377.4	405.3	402.7	476.2	770.0	1307.0	7241.5	12849.3	13659.9	12515.0
52.5°	266.0	352.1	385.0	374.9	514.2	830.8	1418.4	7436.6	14427.3	16207.9	15496.2
55°	238.1	324.2	354.6	352.1	585.1	876.4	1504.5	6408.2	15080.8	18576.2	18854.8
57.5°	217.8	293.8	319.1	362.2	630.7	876.4	1740.1	4549.1	15093.5	20318.8	23312.7
60°	200.1	266.0	283.7	397.7	613.0	830.8	1722.4	2786.2	13910.6	20199.8	25683.5
62.5°	184.9	240.6	263.4	407.8	542.0	823.2	1555.2	1727.4	11864.0	18662.3	23963.6
65°	172.2	220.4	253.3	374.9	491.4	881.4	1048.6	1241.1	9622.4	16909.6	21990.5
67.5°	159.6	202.6	268.5	306.5	445.8	787.7	757.3	881.4	7553.1	14987.1	20179.5
70°	149.4	192.5	283.7	250.8	390.1	615.5	537.0	668.7	5782.6	12504.9	17628.9
72.5°	141.8	179.8	238.1	197.6	316.6	476.2	374.9	486.3	3779.1	9761.7	14371.6
75°	134.2	164.6	174.8	159.6	235.6	311.5	283.7	326.7	2251.7	7135.1	10904.1
77.5°	131.7	154.5	141.8	129.2	159.6	184.9	215.3	220.4	1099.3	3568.8	5714.2
80°	116.5	139.3	121.6	106.4	108.9	121.6	159.6	146.9	250.8	906.8	1524.8
82.5°	91.2	108.9	101.3	88.7	88.7	88.7	106.4	98.8	81.1	407.8	688.9
85°	63.3	76.0	76.0	70.9	68.4	68.4	65.9	63.3	22.8	25.3	38.0
87.5°	43.1	53.2	55.7	53.2	45.6	40.5	35.5	30.4	10.1	0.0	5.1
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°	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1175.3	1182.9	1182.9	1172.7	1165.1	1144.9	1124.6	1104.3	1099.3	1096.7
5°	1175.3	1205.7	1220.9	1218.3	1200.6	1167.7	1124.6	1079.0	1066.3	1061.3
7.5°	1157.5	1215.8	1261.4	1269.0	1236.0	1177.8	1099.3	1030.9	1013.2	1005.6
10°	1198.1	1312.0	1403.2	1415.9	1377.9	1263.9	1137.3	1020.8	992.9	975.2
12.5°	1415.9	1603.3	1714.8	1768.0	1694.5	1550.1	1339.9	1132.2	1068.9	1041.0
15°	1856.6	2122.6	2335.3	2335.3	2266.9	2011.1	1745.2	1408.3	1322.2	1246.2
17.5°	2421.4	2755.8	2943.2	2923.0	2819.1	2639.3	2320.1	1836.3	1661.6	1583.1
20°	3064.8	3264.9	3307.9	3295.3	3249.7	3145.8	2925.5	2406.2	2170.7	2049.1
22.5°	3622.0	3568.8	3505.5	3454.9	3442.2	3472.6	3442.2	3042.0	2857.1	2641.8
25°	3999.4	3698.0	3508.0	3416.9	3459.9	3634.7	3824.7	3675.2	3528.3	3305.4
27.5°	4204.6	3682.8	3409.3	3315.5	3389.0	3637.2	4050.1	4303.4	4151.4	4045.0
30°	4316.0	3670.2	3345.9	3254.8	3366.2	3677.8	4207.1	4891.0	4896.1	4726.4
32.5°	4475.6	3751.2	3358.6	3275.0	3424.5	3799.3	4404.7	5488.8	5635.7	5544.5
35°	4655.4	3875.3	3416.9	3340.9	3525.8	3961.4	4625.1	6091.6	6398.1	6367.7
37.5°	4825.1	4014.6	3553.6	3480.2	3680.3	4100.7	4837.8	6684.3	7109.8	7216.2
40°	5002.5	4209.7	3974.1	4045.0	4156.5	4321.1	5027.8	7198.5	7892.5	8052.0
42.5°	5420.4	4885.9	5245.6	5379.9	5395.0	5055.6	5443.2	7857.0	8662.5	8852.4
45°	6352.5	6089.1	7119.9	7309.9	7211.1	6182.8	6443.7	8806.8	9738.9	9835.2
47.5°	7530.3	7651.9	9685.8	10341.8	9749.1	7512.5	7656.9	10805.3	11709.5	11674.1
50°	8903.1	9478.1	12598.6	14146.2	12727.8	9240.0	9055.1	13262.2	14358.9	14250.0
52.5°	10526.7	11600.6	16099.0	18297.6	16955.1	11182.7	11106.7	16517.0	17185.6	16838.6
55°	12570.7	13649.7	20126.3	23198.7	21288.9	13553.5	13814.4	20291.0	20420.1	19318.3
57.5°	15620.3	16321.9	24872.9	28819.2	25812.6	16775.3	18667.4	25313.7	23768.6	21681.5
60°	21157.2	19759.0	29460.0	34568.8	30625.1	21306.6	25068.0	28289.8	24883.1	22005.7
62.5°	23084.7	22676.9	32332.3	37000.4	33862.2	25027.5	26732.1	26602.9	23439.3	20779.8
65°	20164.3	21950.0	31818.1	35716.2	33446.8	24414.5	23989.0	24741.2	21813.2	18918.1
67.5°	18626.8	20242.8	29870.3	32172.7	31144.4	22335.0	21382.6	21177.5	18312.8	16007.8
70°	17076.7	18677.5	27046.2	27332.4	26853.7	18946.0	17694.7	16319.4	13687.7	11684.2
72.5°	15212.5	16094.0	23127.8	21770.2	21228.1	14880.7	14617.3	12289.6	10260.7	8540.9
75°	13267.3	13011.4	18031.6	14941.5	15346.8	11577.8	12345.3	9024.7	7517.6	6147.3
77.5°	9650.3	9460.3	12076.8	9075.3	10050.5	7583.5	6813.5	3601.8	3429.5	2958.4
80°	5384.9	6491.8	6522.2	5086.0	6344.9	4944.2	1704.6	119.0	76.0	111.4
82.5°	2502.5	2791.2	3535.9	2358.1	3619.5	2449.3	352.1	0.0	0.0	0.0
85°	810.5	1185.4	992.9	347.0	876.4	828.3	58.3	0.0	0.0	0.0
87.5°	48.1	98.8	25.3	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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