

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: P635790

Luminaire Tested: GWS-SA3E-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-740-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

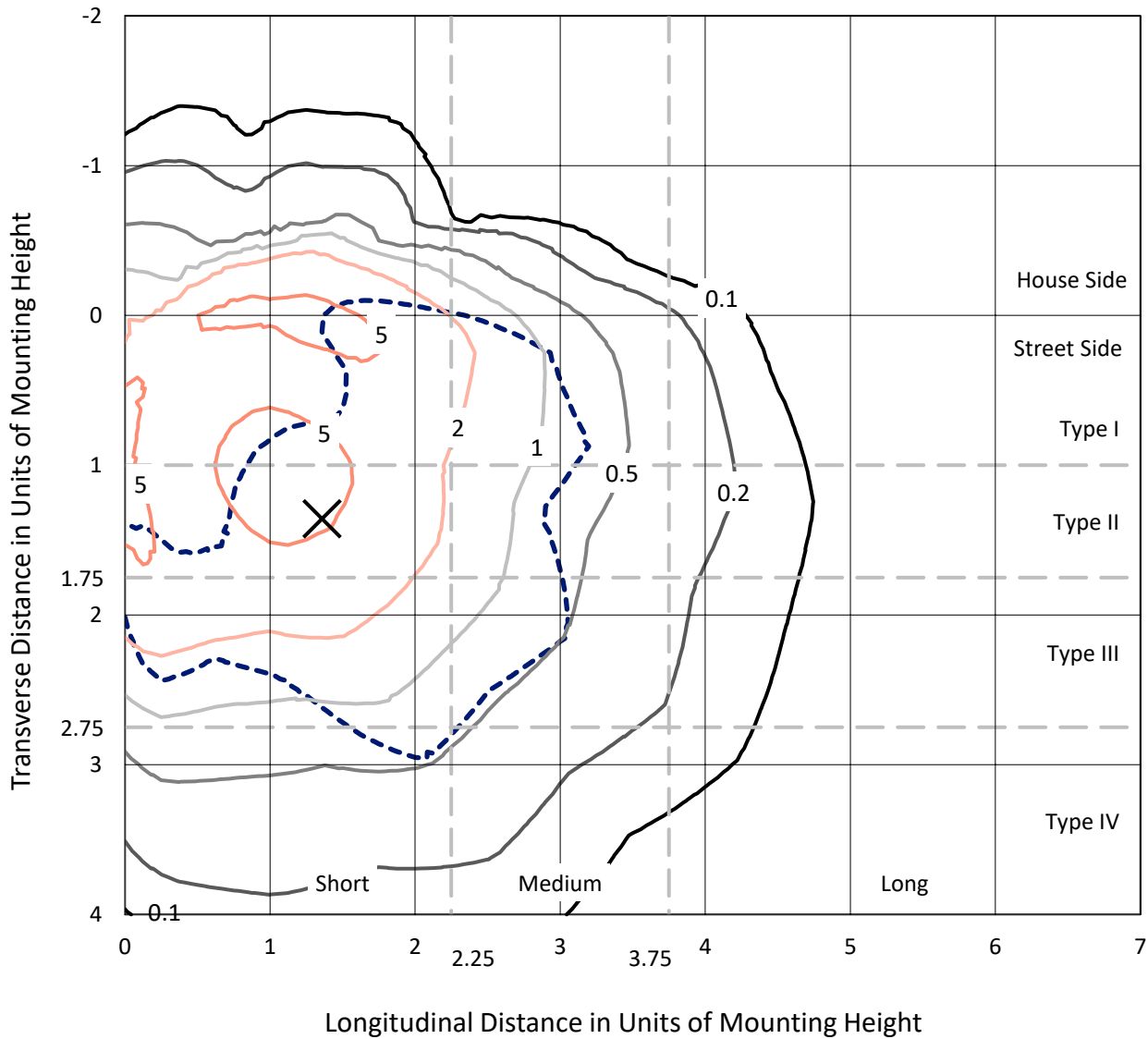
Lumens per Lamp: N/A  
Luminaire Lumens: 13647.8 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

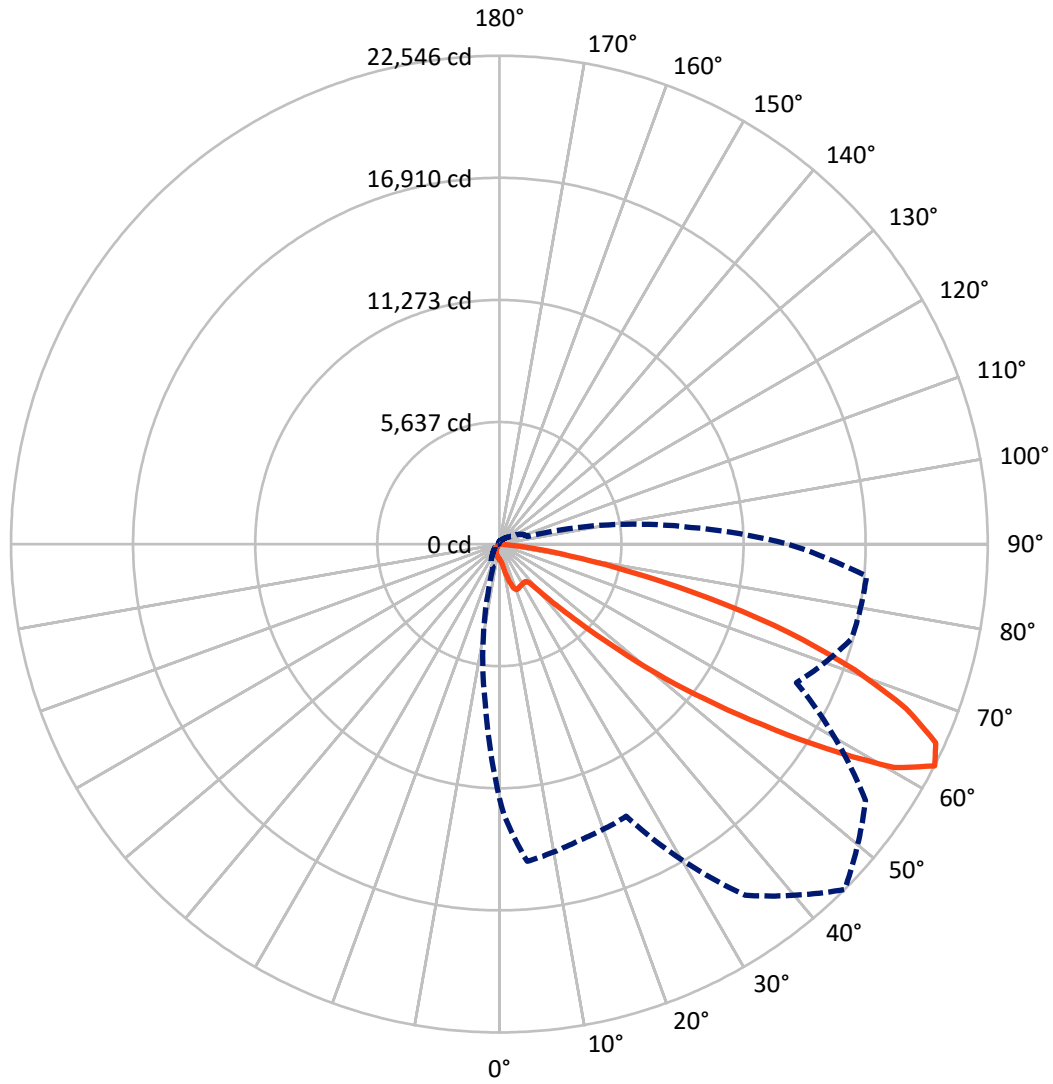
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1684.1	0.0	1684.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	11963.7	0.0	11963.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	13647.8	0.0	13647.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	0.5
10°-20°	237.9	1.7
20°-30°	517.2	3.8
30°-40°	849.0	6.2
40°-50°	1560.7	11.4
50°-60°	3351.7	24.6
60°-70°	4501.9	33.0
70°-80°	2344.2	17.2
80°-90°	222.3	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°	13647.8	100.0
0°-180°	13647.8	100.0

**Coefficient of Utilization**



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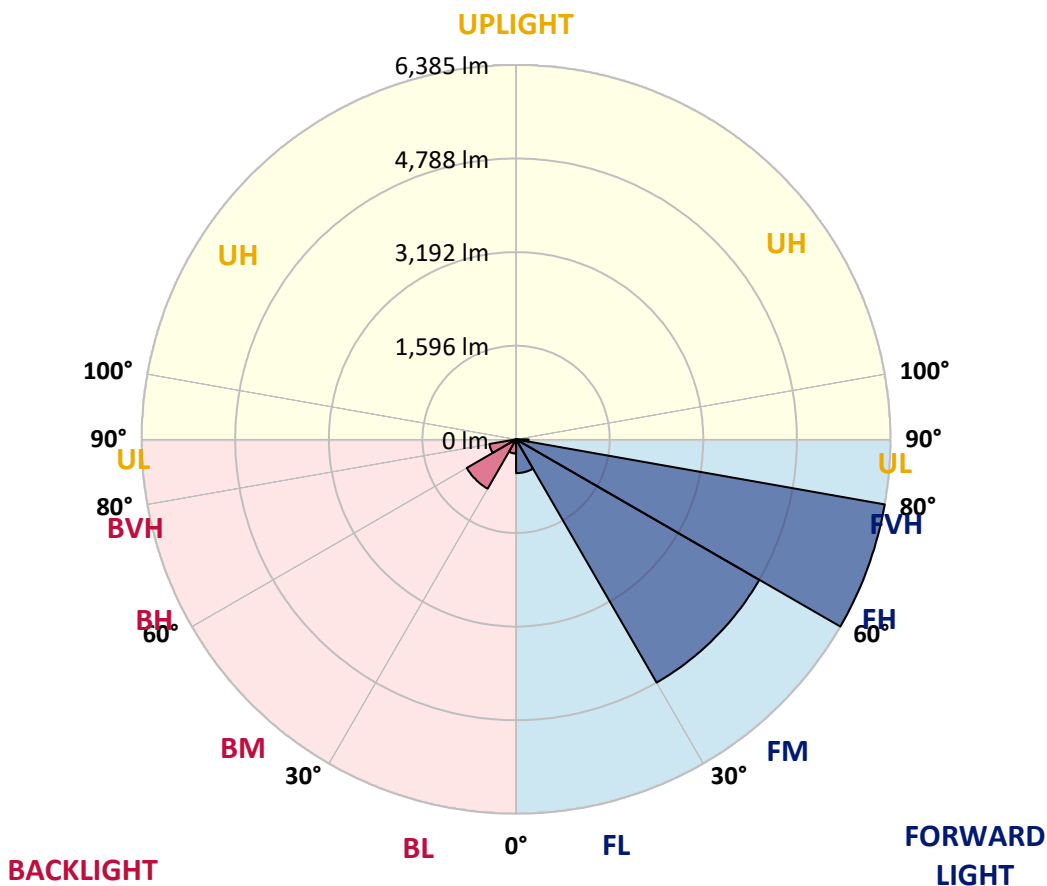
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.6	4.2			
FM (30°-60°)	4790.2	35.1			
FH (60°-80°)	6384.6	46.8			G3/7500
FVH (80°-90°)	212.4	1.6			G2/225
BL (0°-30°)	241.6	1.8	B1/500		
BM (30°-60°)	971.2	7.1	B1/1000		
BH (60°-80°)	461.5	3.4	B1/500		G1/500
BVH (80°-90°)	9.9	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	723.6	726.7	729.9	740.9	748.8	755.1	756.7	752.0	740.9	729.9	714.1
5°	701.5	704.7	715.7	745.7	775.6	799.3	807.1	802.4	775.6	740.9	704.7
7.5°	699.9	706.2	733.0	796.1	860.7	909.6	922.2	911.2	860.7	791.4	717.3
10°	756.7	767.7	807.1	920.6	1038.9	1125.6	1160.3	1113.0	1032.6	906.5	785.1
12.5°	904.9	923.8	999.5	1165.0	1347.9	1462.9	1510.2	1451.9	1325.8	1142.9	950.6
15°	1138.2	1166.6	1280.1	1527.6	1743.5	1846.0	1861.8	1828.7	1682.1	1480.3	1221.7
17.5°	1467.7	1508.7	1685.2	1937.5	2093.5	2129.8	2125.0	2090.4	1983.2	1844.4	1600.1
20°	1861.8	1910.7	2084.1	2292.2	2307.9	2265.4	2241.7	2221.2	2185.0	2161.3	1970.6
22.5°	2259.0	2318.9	2500.2	2552.3	2410.4	2287.4	2229.1	2244.9	2298.5	2415.1	2337.9
25°	2654.7	2711.5	2881.7	2741.4	2457.7	2252.7	2178.6	2216.5	2344.2	2596.4	2695.7
27.5°	3116.6	3159.2	3260.1	2870.7	2465.6	2224.4	2151.8	2210.2	2366.2	2709.9	3088.3
30°	3597.4	3622.7	3573.8	2905.4	2438.8	2181.8	2125.0	2210.2	2404.1	2785.6	3383.0
32.5°	3950.6	3955.3	3796.1	2908.5	2424.6	2147.1	2099.8	2200.7	2440.3	2848.6	3668.4
35°	4314.7	4291.1	4008.9	2955.8	2462.4	2159.7	2118.7	2227.5	2497.1	2922.7	3919.0
37.5°	4683.6	4641.1	4246.9	3033.1	2560.1	2296.9	2271.7	2364.7	2588.5	3025.2	4194.9
40°	5062.0	5003.6	4494.4	3149.7	2777.7	2763.5	2850.2	2839.2	2839.2	3156.0	4478.7
42.5°	5523.9	5456.1	4860.2	3479.2	3285.3	3602.2	3838.6	3692.0	3420.9	3457.1	4847.6
45°	6133.9	6075.6	5493.9	4109.8	4081.4	4809.7	5128.2	4838.1	4163.4	4152.4	5464.0
47.5°	7109.8	7098.7	6504.4	4841.3	5055.7	6346.8	6961.6	6403.5	5009.9	4888.6	6630.5
50°	8481.3	8448.2	7764.0	5698.8	6214.3	8251.1	9348.3	8418.2	6033.1	5747.7	8192.8
52.5°	10026.2	10060.9	9528.0	6635.3	7445.5	10369.9	11897.4	10726.1	7144.4	6840.2	10158.6
55°	11481.2	11679.9	11539.6	7730.9	8648.4	12709.3	14697.2	13257.9	8520.7	8270.0	12362.5
57.5°	12619.4	13179.1	14162.8	9323.1	10062.4	15446.0	17823.3	16002.5	10127.1	10592.1	15362.4
60°	12682.5	13423.4	15707.7	12654.1	11881.7	17793.3	20944.6	18684.0	12652.5	14534.8	17712.9
62.5°	11731.9	12526.4	14701.9	14167.5	13863.3	19790.7	22546.3	20638.8	15137.0	16844.3	17016.1
65°	10644.2	11446.6	13579.5	12450.8	13633.1	19705.6	22139.6	20684.5	15362.4	15274.2	15769.2
67.5°	8999.9	9720.4	11651.5	11020.9	12565.8	18755.0	20260.5	19380.8	14153.3	14285.7	14506.4
70°	6569.0	7262.7	9055.1	9086.6	10973.6	17041.4	17408.7	17287.3	13034.0	13174.3	12543.8
72.5°	4745.1	5330.0	6876.5	7451.9	8760.3	14290.5	14036.7	14504.9	11183.3	11733.5	10075.1
75°	3411.4	3849.7	5044.6	6482.3	6944.2	10612.6	10048.3	11233.7	8973.1	10103.4	7574.8
77.5°	1384.1	1538.6	1984.7	4366.8	4563.8	7139.7	6151.3	8159.7	6397.2	6638.4	3671.5
80°	56.8	63.1	82.0	2254.3	3129.2	4016.8	3291.6	4362.0	4224.9	2673.6	867.0
82.5°	6.3	6.3	14.2	649.5	1369.9	2216.5	1551.2	2512.9	2139.2	1133.5	394.1
85°	1.6	1.6	3.2	74.1	321.6	354.7	209.7	770.9	994.7	463.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	14.2	15.8	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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	714.1	706.2	696.8	687.3	682.6	670.0	665.3	662.1	659.0	660.5	660.5
5°	690.5	673.1	652.6	632.2	621.1	608.5	602.2	599.0	600.6	606.9	606.9
7.5°	687.3	654.2	610.1	583.3	570.7	561.2	554.9	551.8	553.3	561.2	564.4
10°	739.4	681.0	602.2	556.5	542.3	532.8	526.5	521.8	518.7	525.0	526.5
12.5°	851.3	770.9	640.0	553.3	528.1	515.5	510.8	501.3	496.6	499.7	501.3
15°	1083.0	944.3	715.7	565.9	515.5	501.3	493.4	485.5	477.7	476.1	477.7
17.5°	1385.7	1187.1	830.8	595.9	506.0	488.7	477.7	466.6	455.6	454.0	452.4
20°	1760.9	1485.0	991.6	643.2	498.2	477.7	461.9	446.1	431.9	427.2	427.2
22.5°	2103.0	1844.4	1198.1	701.5	487.1	461.9	443.0	424.1	408.3	400.4	398.8
25°	2520.7	2225.9	1445.6	769.3	471.4	441.4	420.9	402.0	386.2	376.8	373.6
27.5°	2941.6	2627.9	1726.2	857.6	452.4	420.9	402.0	384.7	367.3	356.3	353.1
30°	3349.9	3061.5	2041.5	967.9	438.3	400.4	384.7	367.3	351.5	334.2	329.5
32.5°	3788.2	3504.4	2394.6	1090.9	427.2	386.2	368.9	353.1	332.6	316.9	309.0
35°	4210.7	3961.6	2784.0	1210.7	416.2	373.6	354.7	338.9	316.9	299.5	288.5
37.5°	4636.3	4426.7	3190.7	1283.2	400.4	356.3	338.9	326.3	301.1	280.6	268.0
40°	5087.2	4907.5	3630.6	1253.3	386.2	337.4	327.9	313.7	285.3	261.7	245.9
42.5°	5582.2	5366.2	4078.3	1138.2	373.6	321.6	312.1	297.9	271.1	242.8	222.3
45°	6204.9	5869.1	4445.6	964.8	379.9	305.8	286.9	283.8	258.5	222.3	197.1
47.5°	7275.3	6641.6	4730.9	852.9	422.5	288.5	266.4	274.3	247.5	201.8	173.4
50°	8913.2	7921.6	4997.3	845.0	487.1	280.6	247.5	268.0	236.5	181.3	152.9
52.5°	10473.9	9222.2	5167.6	914.3	543.9	301.1	228.6	260.1	228.6	167.1	138.7
55°	11966.8	9972.6	4863.3	964.8	597.5	362.6	214.4	247.5	219.1	159.2	134.0
57.5°	13576.3	10306.8	3829.2	1067.3	635.3	414.6	217.5	228.6	206.5	154.5	132.4
60°	14057.2	9879.6	2311.1	1201.3	614.8	430.4	241.2	203.4	189.2	145.0	127.7
62.5°	13309.9	8865.9	1363.6	1094.1	597.5	406.7	275.9	187.6	171.8	132.4	118.2
65°	12192.2	7489.7	889.1	923.8	633.7	362.6	293.2	179.7	156.1	119.8	104.0
67.5°	10915.3	6033.1	622.7	545.4	584.9	326.3	247.5	178.1	140.3	100.9	85.1
70°	9193.8	4518.1	438.3	361.0	487.1	290.1	192.3	173.4	123.0	82.0	66.2
72.5°	7103.5	2828.1	326.3	233.3	346.8	236.5	152.9	146.6	99.3	67.8	50.4
75°	5238.5	1612.7	230.2	168.7	228.6	179.7	113.5	104.0	85.1	64.6	45.7
77.5°	2735.1	807.1	143.5	129.3	130.8	111.9	82.0	75.7	78.8	64.6	42.6
80°	525.0	160.8	86.7	94.6	70.9	70.9	59.9	63.1	69.4	52.0	36.3
82.5°	219.1	34.7	47.3	53.6	44.1	48.9	48.9	50.4	48.9	37.8	26.8
85°	0.0	0.0	20.5	22.1	30.0	30.0	25.2	25.2	25.2	22.1	15.8
87.5°	0.0	0.0	0.0	0.0	1.6	4.7	9.5	11.0	12.6	9.5	6.3
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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	659.0	655.8	660.5	663.7	666.8	666.8	663.7	660.5	655.8	660.5	655.8
5°	608.5	613.2	621.1	624.3	627.4	621.1	618.0	608.5	600.6	602.2	599.0
7.5°	569.1	573.8	583.3	589.6	589.6	586.4	577.0	567.5	554.9	554.9	553.3
10°	532.8	539.1	550.2	558.1	561.2	558.1	548.6	536.0	525.0	525.0	520.2
12.5°	502.9	510.8	523.4	534.4	537.6	534.4	525.0	512.3	499.7	499.7	496.6
15°	477.7	487.1	501.3	513.9	518.7	513.9	502.9	487.1	474.5	476.1	471.4
17.5°	454.0	461.9	480.8	495.0	499.7	495.0	480.8	460.3	447.7	450.9	447.7
20°	427.2	436.7	455.6	471.4	476.1	471.4	455.6	433.5	420.9	420.9	422.5
22.5°	398.8	408.3	427.2	438.3	444.6	439.8	424.1	403.6	391.0	391.0	392.5
25°	373.6	378.3	392.5	403.6	405.1	400.4	387.8	372.0	362.6	367.3	368.9
27.5°	350.0	350.0	356.3	362.6	361.0	356.3	351.5	338.9	337.4	342.1	346.8
30°	324.7	316.9	313.7	309.0	307.4	305.8	310.6	310.6	313.7	320.0	324.7
32.5°	302.7	286.9	272.7	258.5	250.7	257.0	269.6	280.6	291.6	301.1	305.8
35°	277.5	252.2	228.6	209.7	197.1	206.5	227.0	247.5	266.4	279.0	286.9
37.5°	252.2	216.0	187.6	164.0	154.5	162.4	184.4	212.8	241.2	257.0	268.0
40°	225.4	179.7	146.6	127.7	118.2	126.1	148.2	176.6	214.4	234.9	249.1
42.5°	198.6	148.2	118.2	99.3	94.6	99.3	116.7	145.0	186.0	211.2	230.2
45°	171.8	123.0	94.6	80.4	75.7	80.4	94.6	118.2	159.2	187.6	209.7
47.5°	148.2	104.0	78.8	66.2	63.1	67.8	78.8	99.3	134.0	162.4	187.6
50°	129.3	91.4	67.8	56.8	53.6	58.3	67.8	83.6	113.5	138.7	165.5
52.5°	116.7	85.1	59.9	48.9	47.3	50.4	58.3	70.9	96.2	118.2	143.5
55°	113.5	85.1	55.2	44.1	42.6	45.7	52.0	61.5	83.6	102.5	124.5
57.5°	116.7	91.4	52.0	37.8	36.3	39.4	45.7	53.6	72.5	88.3	108.8
60°	116.7	93.0	45.7	30.0	28.4	31.5	37.8	47.3	64.6	77.2	94.6
62.5°	105.6	85.1	37.8	23.6	20.5	23.6	31.5	39.4	56.8	69.4	83.6
65°	91.4	72.5	31.5	17.3	14.2	17.3	25.2	33.1	48.9	59.9	75.7
67.5°	74.1	55.2	23.6	12.6	9.5	12.6	18.9	26.8	41.0	52.0	67.8
70°	55.2	39.4	18.9	11.0	9.5	11.0	17.3	25.2	36.3	47.3	63.1
72.5°	41.0	26.8	15.8	11.0	7.9	11.0	15.8	23.6	34.7	45.7	59.9
75°	34.7	22.1	14.2	9.5	7.9	9.5	14.2	22.1	31.5	42.6	56.8
77.5°	33.1	20.5	12.6	7.9	6.3	7.9	12.6	18.9	28.4	39.4	55.2
80°	28.4	17.3	11.0	6.3	4.7	6.3	11.0	15.8	22.1	30.0	42.6
82.5°	22.1	14.2	7.9	3.2	1.6	3.2	7.9	9.5	14.2	17.3	25.2
85°	14.2	7.9	3.2	0.0	0.0	0.0	3.2	6.3	6.3	7.9	12.6
87.5°	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	665.3	666.8	670.0	674.7	685.8	695.2	704.7	717.3	723.6	723.6
5°	602.2	603.8	605.4	611.7	627.4	640.0	660.5	685.8	698.4	701.5
7.5°	553.3	556.5	559.6	564.4	580.1	597.5	624.3	671.6	695.2	699.9
10°	525.0	529.7	536.0	545.4	559.6	578.6	624.3	709.4	748.8	756.7
12.5°	502.9	510.8	517.1	528.1	545.4	575.4	666.8	816.6	886.0	904.9
15°	480.8	490.3	499.7	510.8	529.7	586.4	748.8	1008.9	1124.0	1138.2
17.5°	458.7	469.8	482.4	495.0	518.7	613.2	878.1	1275.3	1436.1	1467.7
20°	433.5	447.7	465.1	480.8	507.6	655.8	1057.8	1592.2	1794.0	1861.8
22.5°	406.7	424.1	444.6	465.1	495.0	707.8	1275.3	1932.7	2214.9	2259.0
25°	384.7	402.0	420.9	441.4	474.5	770.9	1538.6	2355.2	2612.2	2654.7
27.5°	364.2	381.5	398.8	417.8	454.0	852.9	1855.5	2804.5	3072.5	3116.6
30°	342.1	362.6	379.9	398.8	435.1	953.7	2221.2	3302.7	3556.5	3597.4
32.5°	323.2	343.7	361.0	379.9	420.9	1064.1	2605.9	3744.1	3950.6	3950.6
35°	307.4	329.5	342.1	367.3	409.9	1135.0	2970.0	4165.0	4321.0	4314.7
37.5°	290.1	316.9	326.3	343.7	395.7	1142.9	3312.1	4609.5	4724.6	4683.6
40°	272.7	301.1	315.3	324.7	379.9	1078.3	3687.3	5017.8	5115.6	5062.0
42.5°	257.0	279.0	299.5	310.6	370.5	964.8	3988.4	5454.5	5571.2	5523.9
45°	241.2	260.1	272.7	293.2	376.8	886.0	4246.9	5963.7	6168.6	6133.9
47.5°	225.4	241.2	249.1	280.6	419.3	849.7	4404.6	6751.9	7138.1	7109.8
50°	208.1	227.0	227.0	277.5	482.4	862.3	4541.7	7893.3	8490.7	8481.3
52.5°	190.7	211.2	208.1	301.1	531.3	920.6	4697.8	8900.6	9939.5	10026.2
55°	173.4	192.3	195.5	348.4	559.6	971.1	4094.0	9324.7	11177.0	11481.2
57.5°	154.5	165.5	203.4	384.7	550.2	1117.7	2804.5	9401.9	11966.8	12619.4
60°	134.0	143.5	230.2	376.8	520.2	1032.6	1765.6	8708.3	11854.9	12682.5
62.5°	116.7	132.4	242.8	332.6	529.7	895.4	1125.6	7421.9	10787.6	11731.9
65°	102.5	127.7	220.7	301.1	536.0	606.9	759.8	6037.8	9745.6	10644.2
67.5°	91.4	141.9	181.3	268.0	460.3	427.2	521.8	4691.5	8194.4	8999.9
70°	83.6	145.0	148.2	230.2	356.3	274.3	343.7	3157.6	5648.4	6569.0
72.5°	75.7	107.2	111.9	184.4	230.2	167.1	222.3	1806.6	4117.7	4745.1
75°	72.5	72.5	77.2	119.8	127.7	121.4	143.5	1078.3	2952.7	3411.4
77.5°	67.8	55.2	48.9	77.2	69.4	86.7	85.1	479.2	1280.1	1384.1
80°	53.6	39.4	33.1	48.9	47.3	58.3	50.4	39.4	58.3	56.8
82.5°	33.1	25.2	23.6	30.0	26.8	30.0	23.6	6.3	6.3	6.3
85°	15.8	14.2	12.6	12.6	14.2	12.6	9.5	3.2	1.6	1.6
87.5°	7.9	7.9	6.3	4.7	6.3	6.3	4.7	1.6	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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