

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: P629576

Luminaire Tested: GWS-SA1B-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-830-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

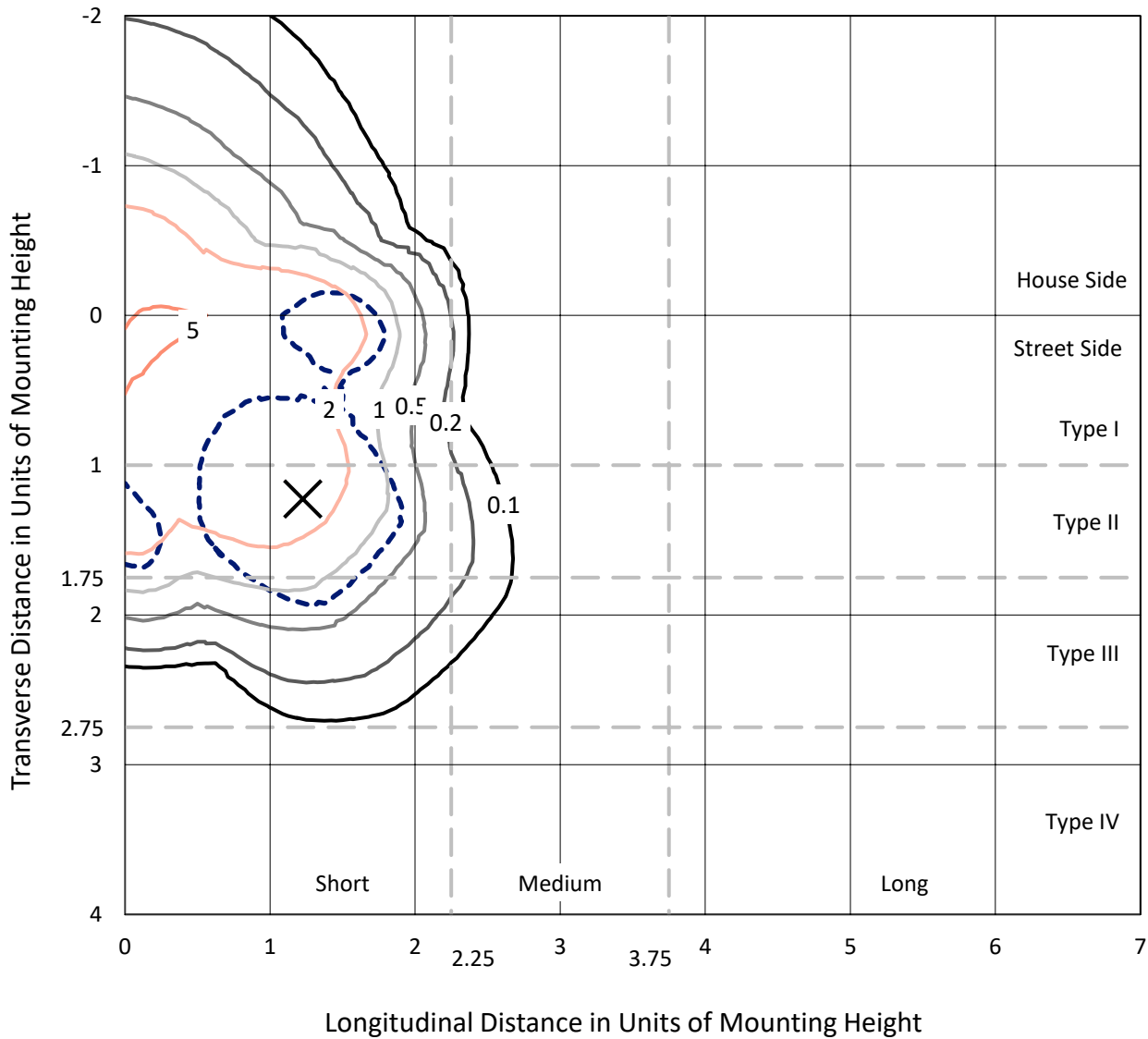
Lumens per Lamp: N/A  
Luminaire Lumens: 2227.6 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

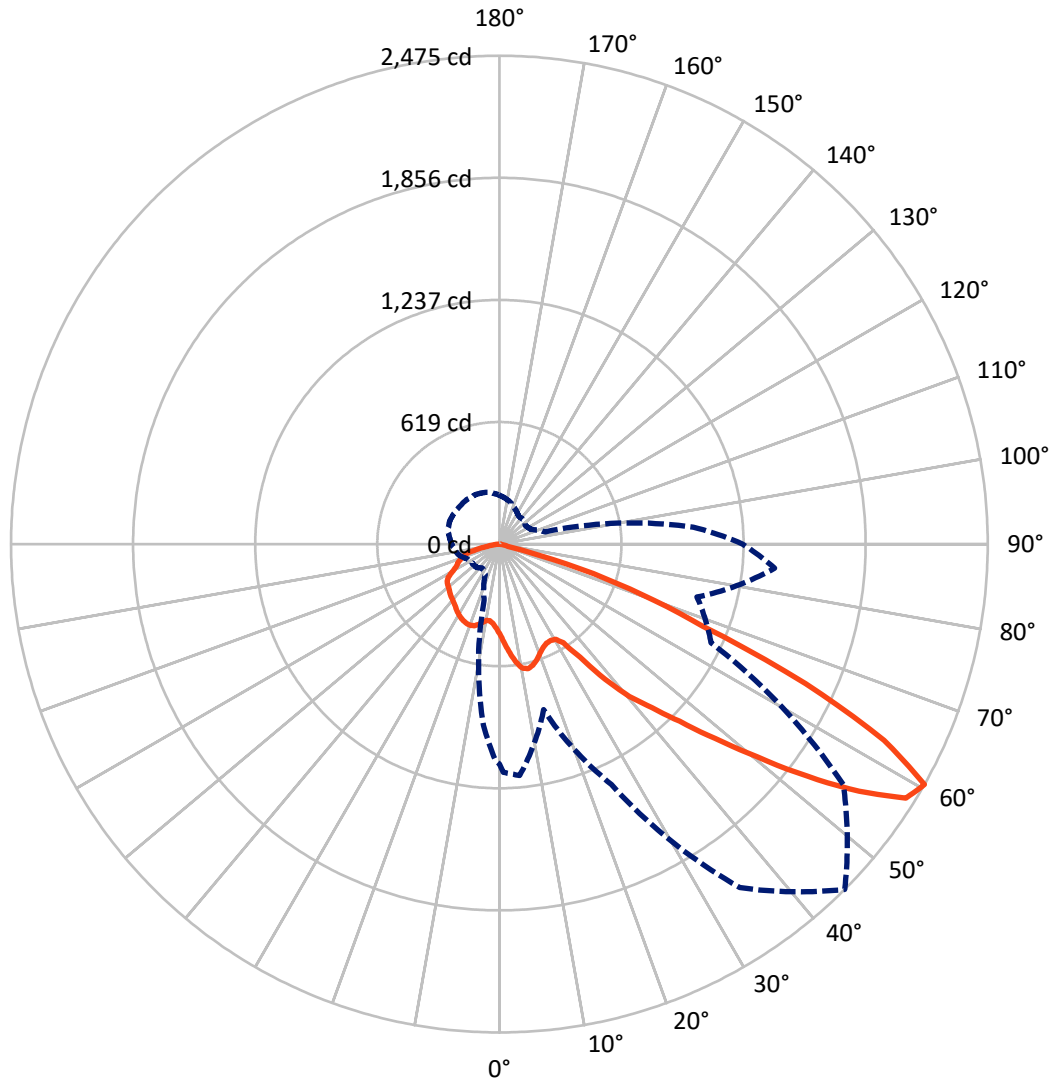
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 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 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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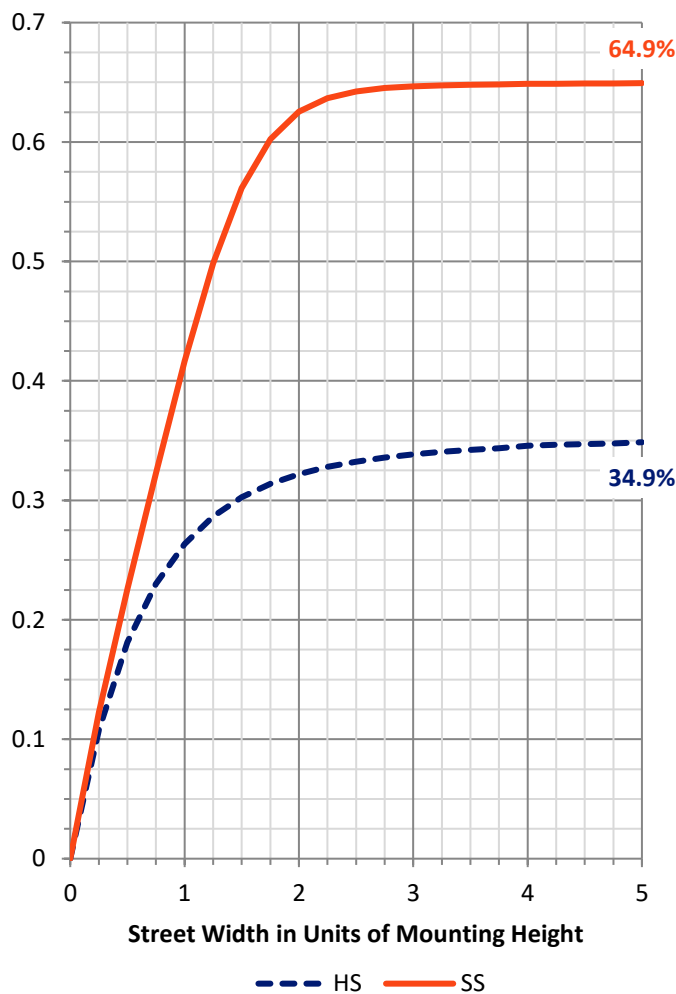
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	780.9	0.0	780.9
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	1446.7	0.0	1446.7
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	2227.6	0.0	2227.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	2.0
10°-20°	141.1	6.3
20°-30°	229.2	10.3
30°-40°	323.2	14.5
40°-50°	446.7	20.1
50°-60°	575.0	25.8
60°-70°	364.3	16.4
70°-80°	93.5	4.2
80°-90°	10.0	0.4
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°	2227.6	100.0
0°-180°	2227.6	100.0

**Coefficient of Utilization**



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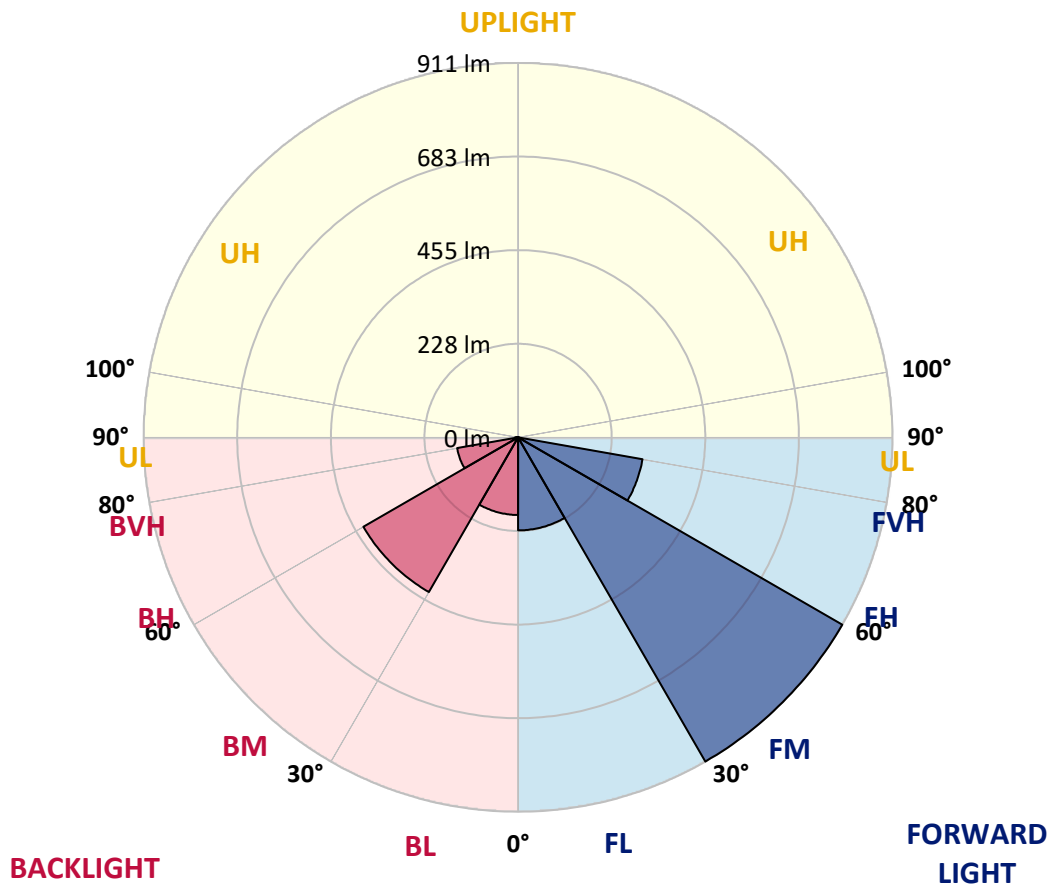
CATALOG NUMBER: GWS-SA1B-830-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.2	10.2			
FM (30°-60°)	910.5	40.9			
FH (60°-80°)	307.3	13.8			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	188.7	8.5	B1/500		
BM (30°-60°)	434.4	19.5	B1/1000		
BH (60°-80°)	150.5	6.8	B1/500		G1/500
BVH (80°-90°)	7.3	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	478.6	481.9	483.9	487.8	494.8	498.6	502.9	498.2	499.5	498.8	491.3
5°	507.0	510.9	516.2	527.6	540.5	547.6	554.4	553.3	547.0	536.4	528.8
7.5°	533.5	538.0	547.2	565.8	584.8	595.8	604.0	598.7	593.3	576.6	557.6
10°	554.4	557.0	569.5	594.4	616.4	628.9	638.9	637.6	630.3	611.5	586.0
12.5°	574.0	575.8	589.3	614.2	634.0	639.5	647.6	650.3	647.8	633.8	608.7
15°	595.0	598.5	610.9	629.9	638.9	633.1	636.0	643.4	650.3	650.3	627.2
17.5°	614.6	617.6	630.3	638.5	629.9	614.8	615.6	625.0	641.5	658.9	644.2
20°	631.9	634.8	647.2	639.5	612.3	590.3	589.7	601.1	627.8	664.4	662.3
22.5°	650.9	655.0	665.4	640.3	596.0	568.0	567.8	579.7	615.8	669.9	683.2
25°	677.8	684.2	689.5	647.4	587.2	553.5	556.2	567.4	611.9	678.9	714.0
27.5°	717.9	723.0	722.5	662.3	586.8	547.6	553.1	566.2	618.9	694.8	746.4
30°	761.1	763.8	759.5	683.2	596.2	551.3	559.5	575.0	636.4	721.1	794.2
32.5°	809.1	812.4	804.2	714.4	618.0	578.4	596.4	604.0	661.1	759.1	844.8
35°	864.2	870.5	853.6	755.6	682.3	677.4	703.6	693.8	713.6	804.0	898.9
37.5°	922.2	922.4	898.1	816.6	808.5	816.8	869.1	838.5	824.8	854.0	954.0
40°	971.4	970.1	932.8	898.9	918.3	951.6	1014.6	967.7	931.8	921.1	999.7
42.5°	1020.5	1016.1	978.3	951.2	994.0	1062.4	1133.6	1076.1	1000.3	982.2	1044.8
45°	1083.4	1082.0	1036.5	972.0	1062.4	1186.5	1281.0	1187.7	1041.0	1017.7	1120.0
47.5°	1184.9	1177.9	1093.2	970.3	1126.5	1351.8	1471.2	1328.3	1069.3	1018.5	1241.2
50°	1284.1	1275.5	1161.0	970.1	1192.6	1523.3	1695.7	1499.2	1098.3	1023.4	1364.5
52.5°	1384.3	1384.3	1272.2	993.2	1262.0	1714.7	1955.2	1712.1	1147.7	1087.5	1516.1
55°	1443.9	1459.8	1397.3	1032.2	1343.2	1940.1	2211.7	1941.9	1224.0	1203.2	1656.1
57.5°	1368.1	1397.9	1389.0	1005.0	1391.2	2105.6	2429.3	2116.2	1261.8	1216.9	1635.1
60°	1114.8	1156.3	1176.9	867.9	1343.9	2124.8	2474.8	2127.6	1183.8	1036.3	1400.6
62.5°	741.1	775.2	806.6	620.1	1163.4	1911.5	2188.9	1912.1	988.7	773.4	970.3
65°	363.5	388.8	422.7	366.6	908.9	1597.2	1706.6	1545.1	715.2	432.9	495.0
67.5°	95.1	102.3	107.0	142.3	651.1	1147.5	1113.0	1130.2	459.5	141.4	129.4
70°	49.4	49.8	49.6	58.8	440.1	729.3	767.0	709.7	320.7	59.2	51.0
72.5°	35.3	35.5	34.9	39.6	212.5	417.8	432.9	428.2	168.0	35.1	34.9
75°	23.1	23.3	22.9	23.3	32.0	47.6	43.9	46.1	28.0	22.2	22.2
77.5°	13.7	13.9	13.7	14.1	13.7	13.7	12.7	12.7	12.0	12.0	12.2
80°	9.2	9.2	9.0	9.4	8.6	8.6	8.2	8.0	7.3	7.1	7.1
82.5°	5.5	5.7	5.5	5.5	5.1	5.1	4.7	4.5	3.9	3.9	3.7
85°	2.9	2.9	2.7	2.7	2.2	2.0	1.6	1.6	1.2	1.0	1.0
87.5°	0.4	0.4	0.2	0.2	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°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	489.3	485.2	479.0	473.1	467.6	461.9	455.4	448.6	442.9	437.0	433.9
5°	518.8	510.5	494.6	480.5	467.8	457.4	446.2	436.6	427.6	420.3	416.6
7.5°	545.6	532.5	508.4	486.2	469.0	454.8	439.2	425.0	412.9	403.9	400.5
10°	570.3	554.8	523.1	495.0	475.0	459.0	440.1	420.7	404.7	392.9	390.1
12.5°	590.3	572.5	534.8	502.1	478.4	461.3	444.6	427.8	412.1	396.8	394.3
15°	608.0	587.0	543.5	506.6	477.2	455.4	441.3	439.2	439.2	421.9	417.0
17.5°	623.4	600.3	550.7	508.6	469.5	437.8	429.2	447.0	467.0	454.6	443.5
20°	640.9	612.9	556.6	508.6	455.2	415.6	414.8	445.0	474.6	474.8	463.1
22.5°	658.7	627.6	563.5	506.8	435.6	389.8	405.0	436.8	463.1	474.4	466.4
25°	687.4	648.0	574.6	505.4	412.7	372.3	396.2	426.0	448.2	460.1	455.0
27.5°	724.0	675.0	591.3	507.6	390.1	361.9	386.8	411.9	432.1	442.5	438.8
30°	764.8	706.0	609.3	511.5	373.7	356.6	375.6	395.8	413.7	424.1	422.5
32.5°	816.8	739.7	624.8	506.2	364.5	353.9	363.7	378.2	395.6	402.1	403.5
35°	879.1	776.8	636.6	485.4	356.2	351.1	350.9	359.8	372.1	382.5	383.5
37.5°	936.5	820.3	649.7	449.7	341.1	343.9	335.8	341.1	353.1	363.5	367.6
40°	993.2	864.4	667.8	404.1	321.3	328.0	318.4	322.1	331.7	345.4	351.9
42.5°	1048.3	904.2	687.0	357.6	301.5	305.8	298.6	302.3	312.3	329.4	336.8
45°	1108.3	958.1	701.9	313.7	284.3	282.5	276.8	282.1	297.2	316.0	324.7
47.5°	1221.8	1043.0	711.7	284.5	275.1	261.9	255.3	266.8	283.9	302.9	313.5
50°	1360.4	1165.9	708.9	266.0	267.2	240.6	238.4	253.5	271.9	291.7	303.3
52.5°	1470.2	1286.5	676.4	248.2	251.7	227.2	220.6	242.7	260.2	280.4	292.5
55°	1554.1	1327.1	576.8	227.2	226.4	217.4	203.7	231.5	248.6	267.4	280.4
57.5°	1485.7	1236.7	427.6	198.2	193.3	198.0	184.7	212.5	234.3	252.9	264.5
60°	1233.0	986.1	238.2	175.5	161.7	173.1	171.0	192.5	218.8	238.4	248.4
62.5°	837.1	656.6	141.2	138.8	131.0	147.4	158.2	172.3	198.2	214.1	223.5
65°	417.2	319.0	93.9	103.9	104.9	121.2	141.7	157.2	178.8	195.1	204.5
67.5°	121.0	99.2	71.4	79.4	90.4	103.5	119.8	138.2	159.2	178.6	189.6
70°	52.3	52.9	56.7	66.1	76.9	90.4	106.7	124.7	142.5	157.4	165.7
72.5°	36.9	38.4	42.7	52.3	62.5	75.3	91.6	109.0	121.9	137.0	145.7
75°	23.7	24.7	28.2	35.5	43.1	55.5	71.0	87.0	100.2	111.0	119.4
77.5°	13.1	13.3	16.1	20.4	25.5	33.5	44.9	57.4	67.2	73.3	80.8
80°	7.6	7.6	9.0	11.6	14.7	19.6	25.9	32.0	38.0	41.8	45.5
82.5°	4.1	4.1	4.7	6.3	8.0	10.8	14.5	17.6	21.2	23.3	25.7
85°	1.2	1.2	1.6	2.2	2.9	4.1	5.7	7.3	9.0	10.4	11.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	433.3	430.5	428.8	426.8	427.4	425.6	424.5	425.2	421.5	425.2	428.8
5°	415.2	411.1	407.8	405.2	403.9	401.5	400.1	400.1	397.8	401.5	406.0
7.5°	399.2	396.0	394.3	392.7	390.9	388.6	386.2	385.4	383.9	387.8	391.7
10°	388.6	389.0	390.1	392.3	391.9	390.5	386.8	384.7	384.7	389.2	395.2
12.5°	393.5	397.8	400.3	404.3	405.2	403.9	400.3	398.6	402.7	409.4	419.2
15°	412.5	415.4	417.4	420.7	420.5	419.4	416.6	417.8	431.3	444.3	453.1
17.5°	433.1	429.9	429.4	431.5	432.1	430.9	429.2	434.8	457.0	469.2	473.7
20°	448.0	436.8	434.3	435.2	436.8	436.2	436.2	445.2	468.2	473.9	468.2
22.5°	452.5	436.6	432.9	433.1	435.4	435.6	436.6	446.0	459.5	459.7	450.9
25°	445.4	430.1	427.4	427.8	430.5	430.3	430.7	436.0	441.9	439.4	432.9
27.5°	431.9	418.6	417.8	420.1	423.5	421.7	420.5	421.9	424.8	421.7	416.0
30°	416.6	405.4	405.8	410.1	413.7	410.7	407.6	408.4	408.6	405.4	398.8
32.5°	400.5	392.1	393.5	398.0	402.3	399.0	395.8	395.4	391.5	387.6	381.3
35°	384.3	381.1	382.9	386.6	390.3	387.6	385.6	384.3	376.0	370.3	364.9
37.5°	369.6	372.1	375.4	377.6	378.8	378.6	377.4	374.5	363.5	356.8	349.8
40°	356.6	364.1	367.6	368.6	370.5	370.1	369.8	365.8	351.3	344.1	336.2
42.5°	344.7	355.4	361.3	362.3	363.3	363.5	362.9	357.0	340.5	332.1	324.5
45°	333.3	347.2	354.7	353.7	355.2	355.2	355.8	348.0	329.8	321.3	313.3
47.5°	323.3	339.6	346.6	345.4	346.2	346.8	347.4	338.4	318.2	310.0	301.9
50°	314.1	331.5	337.4	337.8	337.8	339.2	339.0	330.2	308.4	299.6	291.5
52.5°	304.3	323.1	329.4	332.1	332.9	333.5	330.7	320.5	298.4	287.8	280.2
55°	292.9	314.5	320.2	323.7	325.4	324.9	321.1	310.7	288.2	277.6	269.0
57.5°	275.5	296.2	304.3	306.0	308.6	307.0	302.5	293.7	271.9	261.3	252.5
60°	256.6	271.5	278.0	279.4	277.4	278.0	277.4	269.0	250.0	241.7	232.7
62.5°	231.7	244.9	251.9	253.7	250.2	252.5	251.7	241.3	222.3	213.5	205.5
65°	212.9	227.4	235.5	236.6	235.5	236.6	233.7	221.1	203.1	194.1	185.9
67.5°	198.2	213.1	221.7	224.5	223.5	223.3	218.8	204.1	185.5	175.7	165.3
70°	172.9	185.9	197.0	203.9	203.9	200.0	191.5	177.8	162.9	154.5	146.3
72.5°	153.1	169.6	180.4	187.6	189.0	186.8	174.7	160.2	143.1	134.7	126.1
75°	126.1	142.3	153.9	163.3	165.1	162.7	148.8	134.5	118.6	110.4	101.9
77.5°	84.3	93.9	103.3	111.9	110.0	111.6	102.3	91.4	81.6	75.5	71.6
80°	47.6	53.9	56.7	61.4	61.4	61.4	55.3	50.2	44.7	41.2	37.4
82.5°	26.9	31.0	32.2	36.1	37.1	37.4	33.3	30.0	26.5	24.7	22.0
85°	12.5	14.7	14.9	17.1	18.0	19.6	17.8	15.5	13.5	12.7	11.0
87.5°	0.4	1.2	1.6	3.1	4.1	4.7	5.1	5.1	4.3	3.9	3.3
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	433.3	438.2	443.9	448.0	455.4	461.5	467.8	474.8	479.9	478.6
5°	411.5	419.6	430.1	439.7	453.3	467.2	482.5	498.2	507.4	507.0
7.5°	399.2	410.9	423.5	436.4	452.5	472.5	496.0	520.5	532.9	533.5
10°	405.8	418.2	426.8	437.6	454.6	479.7	507.8	537.2	551.5	554.4
12.5°	426.4	425.4	424.8	432.5	452.9	484.8	519.3	554.4	570.5	574.0
15°	446.0	425.0	412.3	417.6	445.6	488.0	530.5	573.1	591.3	595.0
17.5°	449.7	417.8	394.3	398.0	433.9	489.0	541.3	591.5	611.1	614.6
20°	439.4	408.6	381.3	376.2	419.2	486.4	548.0	606.8	628.3	631.9
22.5°	426.6	400.5	371.5	358.2	401.3	483.7	555.6	622.9	647.6	650.9
25°	413.1	390.1	362.3	342.1	380.9	482.1	568.2	644.2	674.0	677.8
27.5°	398.8	377.4	354.3	334.3	362.1	484.1	586.2	678.5	712.3	717.9
30°	383.5	364.7	349.2	331.7	349.2	486.0	606.0	713.6	753.4	761.1
32.5°	367.6	353.1	343.9	332.9	341.3	481.7	623.4	753.0	802.4	809.1
35°	351.7	341.3	337.2	335.1	330.7	466.0	637.4	792.8	858.3	864.2
37.5°	336.8	329.0	327.8	330.0	314.3	440.3	653.8	843.4	913.2	922.2
40°	322.9	315.8	315.6	315.1	296.4	405.2	675.8	894.8	967.3	971.4
42.5°	310.0	301.1	302.7	297.8	281.7	367.2	696.6	938.7	1017.7	1020.5
45°	298.6	286.8	288.6	282.5	274.7	327.4	715.0	990.5	1081.6	1083.4
47.5°	287.6	274.9	269.8	269.4	273.5	290.7	733.0	1090.4	1181.6	1184.9
50°	277.4	263.7	249.2	258.2	266.0	263.1	755.4	1197.3	1284.9	1284.1
52.5°	267.6	249.6	229.0	246.4	246.4	242.7	749.1	1262.2	1370.2	1384.3
55°	256.4	227.0	208.0	226.6	217.6	224.3	637.0	1283.4	1423.9	1443.9
57.5°	234.1	199.0	182.5	192.5	179.0	208.0	457.6	1178.1	1332.6	1368.1
60°	212.7	178.4	167.6	165.7	148.2	169.6	296.6	922.4	1096.9	1114.8
62.5°	187.6	160.6	151.4	137.4	119.2	123.5	179.6	607.0	737.0	741.1
65°	168.6	145.5	128.0	111.2	97.6	89.6	106.1	292.7	368.4	363.5
67.5°	144.7	124.7	108.0	95.9	84.7	74.7	70.6	87.0	98.4	95.1
70°	128.8	109.6	93.5	82.1	71.6	61.6	54.5	51.2	50.2	49.4
72.5°	111.0	94.3	77.6	66.5	56.7	47.6	41.0	37.1	36.1	35.3
75°	88.6	72.9	57.6	47.1	38.6	32.0	27.8	24.5	23.9	23.1
77.5°	58.6	46.7	34.3	28.0	22.9	19.4	16.5	14.5	14.1	13.7
80°	32.2	26.9	21.0	16.9	13.7	11.8	10.8	9.6	9.4	9.2
82.5°	19.2	16.1	12.0	9.6	8.0	7.1	6.5	5.9	5.7	5.5
85°	9.6	7.6	5.3	4.5	4.1	3.7	3.7	3.1	2.9	2.9
87.5°	2.4	2.0	1.2	1.0	1.0	1.0	0.8	0.6	0.6	0.4
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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