

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: P631607

Luminaire Tested: GWS-SA2B-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4764.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

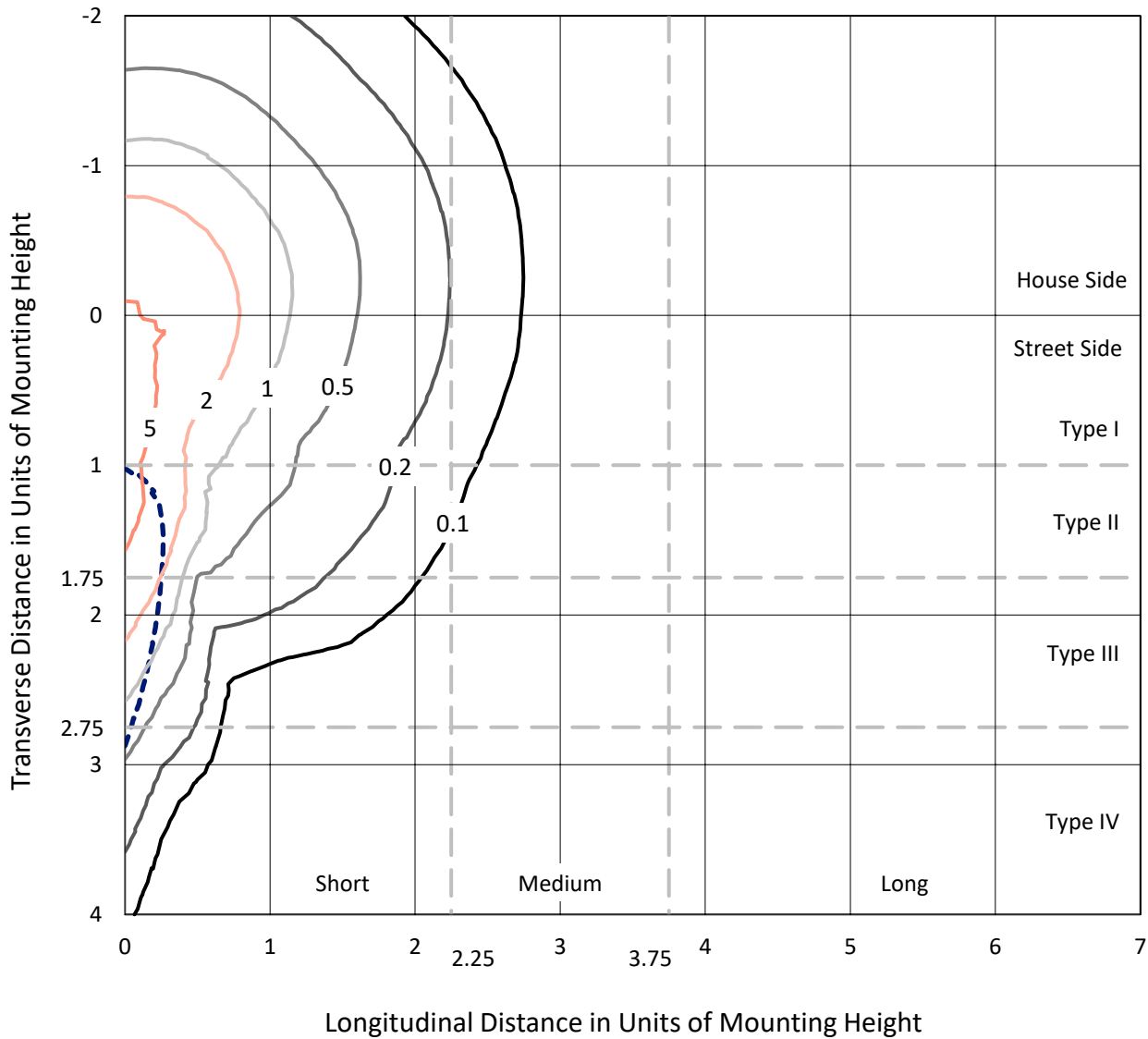
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

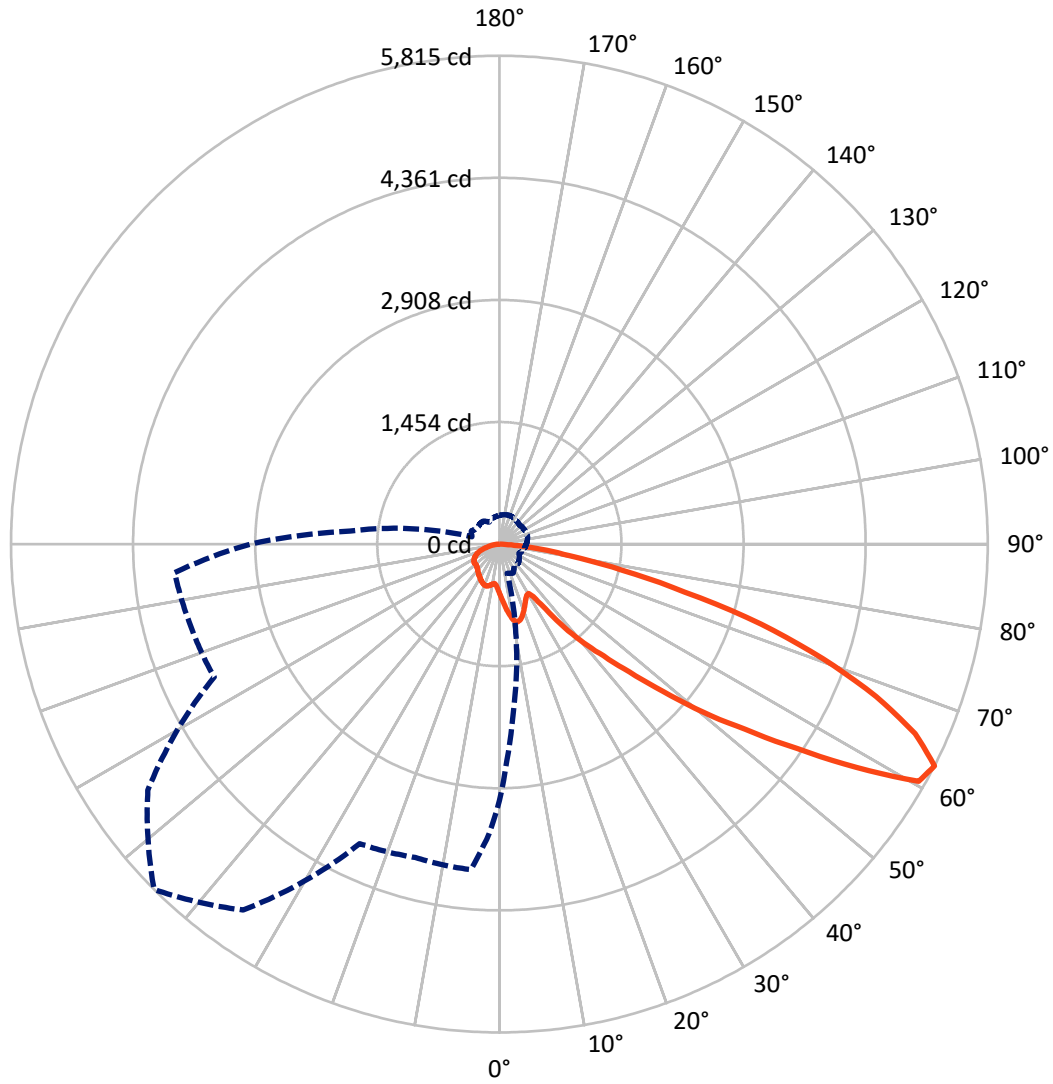
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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
House Side	Lumens	1139.2	0.0	1139.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3625.2	0.0	3625.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	4764.4	0.0	4764.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.2
10°-20°	190.2	4.0
20°-30°	299.4	6.3
30°-40°	410.4	8.6
40°-50°	640.3	13.4
50°-60°	1104.1	23.2
60°-70°	1279.5	26.9
70°-80°	675.4	14.2
80°-90°	106.7	2.2
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°	4764.4	100.0
0°-180°	4764.4	100.0

Coefficient of Utilization



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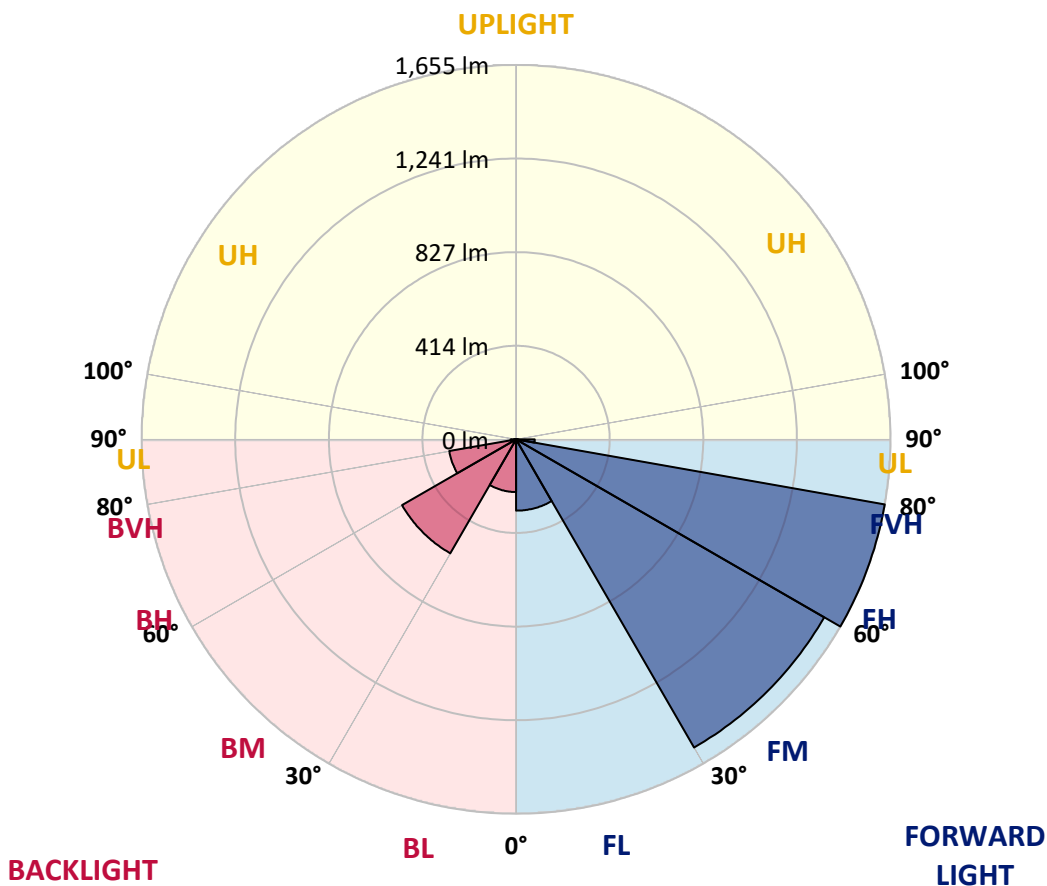
CATALOG NUMBER: GWS-SA2B-722-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.1	6.6			
FM (30°-60°)	1572.9	33.0			
FH (60°-80°)	1654.9	34.7			G1/1800
FVH (80°-90°)	82.3	1.7			G1/100
BL (0°-30°)	233.0	4.9	B1/500		
BM (30°-60°)	581.9	12.2	B1/1000		
BH (60°-80°)	299.9	6.3	B1/500		G1/500
BVH (80°-90°)	24.3	0.5			G1/100
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°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	645.4	642.9	639.2	626.8	619.2	610.4	601.3	590.7	578.7	570.3	562.0
5°	700.1	696.1	687.3	657.8	637.4	615.2	596.6	575.4	554.7	540.5	526.2
7.5°	752.5	747.4	734.0	688.8	655.6	623.5	595.5	564.9	533.9	512.8	496.0
10°	805.0	794.5	777.3	718.3	674.6	637.4	605.3	567.8	526.6	497.8	480.0
12.5°	845.1	835.3	816.7	745.3	693.5	646.9	610.8	576.2	541.2	510.6	492.3
15°	882.7	869.9	848.8	770.4	709.2	646.5	599.9	569.6	564.5	556.9	533.2
17.5°	909.6	898.0	876.1	790.8	717.9	635.2	569.6	551.7	574.7	598.0	575.4
20°	933.3	919.8	897.6	805.0	719.8	610.1	532.8	533.2	569.2	601.3	595.8
22.5°	953.4	938.4	918.7	821.1	719.0	575.1	500.7	522.6	558.7	583.8	584.5
25°	978.1	965.7	949.3	844.8	719.0	539.4	477.4	509.8	540.8	562.0	561.2
27.5°	1008.4	1000.0	986.5	880.8	725.6	509.5	464.3	493.4	517.9	536.1	535.7
30°	1042.3	1034.6	1024.4	919.1	736.9	487.2	457.0	473.0	490.9	505.5	505.5
32.5°	1076.9	1074.0	1063.0	949.7	728.1	480.3	450.8	452.6	462.1	474.1	473.0
35°	1125.0	1122.1	1108.2	973.4	690.2	470.5	441.0	431.9	432.9	440.6	443.1
37.5°	1195.3	1191.0	1170.6	1001.1	633.0	445.7	424.9	410.0	406.7	410.0	414.7
40°	1280.2	1273.7	1246.0	1038.6	567.1	412.2	399.8	387.4	381.9	383.0	388.5
42.5°	1386.7	1372.8	1333.1	1078.4	501.8	382.7	371.7	364.1	357.9	357.1	367.7
45°	1559.4	1521.5	1458.5	1113.7	446.8	367.0	346.6	341.1	336.0	338.9	351.3
47.5°	1861.1	1791.2	1668.4	1143.9	413.3	367.3	326.5	320.7	320.3	326.2	340.0
50°	2275.9	2174.9	1985.4	1164.4	395.8	371.7	314.5	305.0	312.0	317.8	330.9
52.5°	2673.1	2518.9	2293.4	1164.0	388.1	372.4	317.8	290.5	312.0	313.4	325.8
55°	3012.4	2733.2	2376.5	1044.5	377.2	369.5	330.5	279.2	307.9	313.4	323.3
57.5°	3282.1	2869.5	2370.3	843.7	410.3	353.5	338.2	276.6	296.3	314.1	325.4
60°	3252.2	2807.2	2217.6	517.9	407.1	325.1	337.1	281.3	276.6	304.3	322.9
62.5°	3053.6	2583.8	1954.8	359.3	382.3	308.7	319.2	289.7	258.4	290.1	310.5
65°	2775.5	2295.5	1629.0	275.5	316.7	309.4	289.0	283.9	242.3	267.5	289.4
67.5°	2407.8	1938.0	1286.1	218.3	220.8	267.9	262.4	252.2	227.4	247.4	267.1
70°	1810.1	1414.4	884.8	175.7	167.3	223.8	235.8	226.7	212.8	218.7	239.4
72.5°	1275.5	923.5	484.7	139.2	129.0	172.0	204.8	203.4	188.0	192.4	212.8
75°	947.9	653.4	302.8	110.1	105.0	123.2	171.6	176.0	163.3	168.4	184.0
77.5°	630.8	423.1	168.4	81.6	81.6	90.0	127.9	148.3	138.8	142.9	153.8
80°	348.0	215.4	84.2	53.6	55.0	62.0	93.3	106.8	107.1	117.0	119.9
82.5°	110.1	68.5	37.5	31.3	29.5	35.3	60.1	76.5	71.4	91.1	83.8
85°	25.1	16.0	6.9	6.9	7.7	11.7	23.0	40.8	52.1	62.7	45.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	16.0	23.7	21.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	556.9	549.6	547.4	541.2	540.5	534.6	532.4	532.4	535.0	535.0	537.5
5°	520.4	511.3	506.2	498.9	497.1	492.7	489.8	490.2	493.4	495.6	500.0
7.5°	488.3	482.1	478.5	475.2	474.5	473.8	470.5	470.1	471.2	474.5	477.8
10°	474.9	470.5	471.6	474.1	478.1	480.3	477.4	475.9	474.9	477.0	480.0
12.5°	488.0	483.6	485.8	490.2	495.6	497.8	496.7	496.4	497.4	505.8	512.0
15°	516.8	508.4	505.5	507.3	511.7	513.8	512.8	514.2	521.1	543.0	558.7
17.5°	552.5	532.1	520.4	517.1	518.9	520.8	520.8	524.4	536.4	568.5	588.2
20°	571.8	545.2	525.5	517.5	518.2	520.0	520.0	525.1	538.6	572.9	585.6
22.5°	566.7	542.3	518.2	509.5	509.8	511.3	511.3	515.7	527.7	557.9	563.8
25°	546.6	525.1	501.5	493.8	494.5	497.1	496.4	498.9	508.0	532.8	536.1
27.5°	522.6	503.6	480.3	474.5	477.8	482.9	478.5	478.9	487.2	508.0	508.4
30°	496.7	481.0	460.3	455.9	462.1	464.6	460.6	460.6	469.0	483.2	482.9
32.5°	468.7	458.8	443.9	439.1	446.1	450.1	445.0	445.7	452.3	461.7	458.1
35°	442.4	437.3	430.4	427.1	431.5	435.1	431.9	433.3	439.5	442.1	437.0
37.5°	417.3	416.5	417.3	417.3	418.4	419.5	417.3	420.9	426.4	423.1	417.3
40°	395.4	398.3	405.2	403.4	402.3	403.4	402.0	408.2	413.6	407.8	400.9
42.5°	377.2	382.7	393.2	393.2	391.0	391.8	391.0	398.7	402.7	394.7	387.0
45°	361.5	369.5	383.0	384.8	381.2	381.2	382.7	392.1	393.6	382.7	374.6
47.5°	350.6	360.4	375.7	379.0	373.5	373.2	377.2	387.4	387.4	374.6	365.5
50°	342.9	353.9	372.1	376.5	371.0	369.5	376.1	385.9	383.7	368.4	359.3
52.5°	337.8	349.1	371.7	377.9	374.3	372.8	379.4	386.3	380.8	364.4	355.0
55°	334.5	346.9	372.8	377.9	373.9	371.4	377.9	384.1	381.2	362.2	353.1
57.5°	336.4	348.8	371.4	373.9	369.2	364.8	372.4	381.2	380.1	363.0	353.9
60°	333.5	344.8	363.3	364.1	356.0	349.1	360.4	373.5	373.5	360.4	352.4
62.5°	320.0	331.3	347.7	348.4	339.3	331.6	344.8	360.4	360.1	349.5	341.1
65°	297.7	308.3	326.9	328.7	319.6	311.6	325.1	339.6	340.7	331.3	324.0
67.5°	273.3	282.8	296.6	303.9	296.3	287.9	300.3	314.1	313.8	302.5	294.8
70°	244.2	252.9	265.7	271.9	267.1	259.1	270.4	277.7	274.4	268.9	263.8
72.5°	215.4	223.8	235.8	235.8	230.7	223.0	226.3	239.4	243.4	239.4	236.2
75°	185.1	192.4	200.8	202.6	191.3	177.5	192.8	204.1	208.8	207.0	203.0
77.5°	154.2	159.6	172.0	168.7	147.6	140.3	152.7	169.5	172.7	171.6	166.2
80°	118.8	122.1	135.2	128.6	112.2	107.5	113.0	126.1	126.8	123.2	116.3
82.5°	79.8	84.2	92.9	80.2	79.8	75.4	71.1	72.5	79.1	78.4	73.6
85°	40.8	43.0	51.4	48.1	41.2	35.7	33.9	36.1	32.4	29.5	25.5
87.5°	17.1	18.6	25.5	14.2	4.4	0.0	0.0	2.2	3.3	4.7	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	543.4	547.4	557.2	569.6	581.6	594.0	607.5	615.9	626.1	639.2	639.6
5°	505.5	514.6	528.8	547.7	567.4	590.0	616.3	638.1	664.4	685.1	693.5
7.5°	482.1	495.3	513.1	537.2	563.0	591.1	625.4	662.2	705.2	732.9	749.3
10°	484.3	504.4	522.2	542.6	566.0	596.2	640.3	689.1	742.0	778.4	798.8
12.5°	523.3	544.5	541.2	540.1	555.8	592.6	652.3	716.5	781.0	817.4	841.8
15°	572.5	580.5	549.6	526.2	535.7	579.4	658.9	740.9	813.4	857.9	881.9
17.5°	597.7	581.6	544.1	509.1	506.6	559.4	662.2	765.7	849.9	894.3	919.8
20°	586.0	562.7	531.0	497.8	479.6	532.1	660.3	785.3	883.0	932.6	953.4
22.5°	560.9	540.5	515.7	484.0	457.7	502.2	655.6	805.0	912.5	962.5	980.7
25°	533.5	518.2	497.8	470.1	445.3	475.9	652.3	831.3	946.4	994.2	1005.8
27.5°	506.2	494.9	478.1	456.6	442.4	457.7	653.4	865.5	990.2	1035.3	1030.6
30°	479.2	469.4	457.7	448.2	442.1	453.4	650.5	902.0	1038.3	1080.2	1052.1
32.5°	453.7	444.6	437.3	438.8	442.4	455.2	635.6	935.1	1082.4	1118.1	1075.4
35°	431.9	422.4	422.4	427.5	441.0	449.0	596.9	961.0	1131.2	1166.9	1108.6
37.5°	411.4	403.1	408.5	416.9	429.7	432.2	547.4	986.1	1202.3	1235.8	1160.0
40°	393.6	385.2	395.0	405.6	412.2	411.1	497.1	1021.1	1286.1	1320.7	1228.1
42.5°	379.4	371.7	380.5	393.9	395.0	396.1	460.3	1054.7	1383.4	1427.5	1345.5
45°	367.7	362.2	366.6	380.1	380.1	396.9	437.3	1082.7	1529.9	1607.9	1560.9
47.5°	358.6	355.3	357.5	361.9	369.2	410.0	422.7	1104.2	1796.6	1949.7	1902.3
50°	353.5	350.2	353.1	344.0	365.9	416.5	418.0	1120.6	2148.3	2388.1	2329.4
52.5°	349.1	348.0	349.9	328.7	373.2	412.2	414.4	1098.8	2384.1	2819.6	2877.5
55°	347.7	348.4	339.6	317.4	381.9	397.6	403.4	942.4	2448.2	3191.7	3551.4
57.5°	348.4	346.2	324.0	318.5	382.3	368.4	419.1	672.4	2355.0	3353.5	4210.6
60°	345.8	334.9	305.0	328.4	365.5	334.2	407.8	438.4	2109.0	3229.2	4248.9
62.5°	334.5	318.5	288.6	333.8	335.6	313.8	370.3	337.8	1781.0	2963.2	3880.1
65°	318.1	296.6	274.8	322.5	305.4	304.3	278.4	270.8	1432.2	2646.5	3530.2
67.5°	291.2	269.7	264.6	296.6	274.8	269.7	223.8	224.5	1142.9	2309.0	3178.6
70°	260.6	239.1	243.1	268.2	244.5	224.1	181.1	187.0	867.0	1923.8	2704.4
72.5°	240.5	211.7	212.1	236.2	215.0	181.5	149.1	154.2	550.3	1450.1	2150.1
75°	203.0	186.6	178.6	191.3	182.6	141.4	125.4	124.3	326.2	1039.4	1610.1
77.5°	169.5	156.7	152.7	157.8	136.3	104.6	100.9	99.1	184.8	665.8	1055.0
80°	122.8	119.5	119.2	121.7	105.0	76.9	76.9	77.3	99.5	361.5	594.8
82.5°	78.0	85.3	75.4	83.8	71.4	54.7	51.0	57.9	57.2	154.2	250.7
85°	32.4	44.5	41.5	44.1	33.9	29.9	32.1	34.6	33.2	59.4	97.7
87.5°	6.2	7.3	8.0	7.7	7.7	9.5	10.6	12.8	12.8	17.1	29.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	653.4	664.0	661.8	666.5	660.3	662.5	650.1	646.9	644.7	645.4
5°	720.5	742.0	746.0	754.0	748.5	748.5	726.7	710.3	704.4	700.1
7.5°	788.6	819.6	840.0	842.2	839.3	833.5	801.7	772.2	761.7	752.5
10°	849.1	886.3	909.3	920.2	914.7	905.6	866.3	825.8	813.0	805.0
12.5°	895.4	928.2	943.5	950.8	950.1	946.8	914.7	871.0	857.5	845.1
15°	925.3	941.7	935.9	935.5	940.6	953.7	943.9	909.6	893.9	882.7
17.5°	944.6	928.9	903.1	891.0	902.0	932.9	955.5	936.2	922.0	909.6
20°	951.5	895.8	858.2	836.0	848.8	893.6	949.3	955.5	943.5	933.3
22.5°	943.5	855.3	804.3	778.1	790.5	844.0	931.1	971.2	963.2	953.4
25°	923.8	813.0	751.8	728.1	741.6	796.3	898.7	985.8	986.1	978.1
27.5°	899.4	774.1	715.0	692.8	705.9	756.9	867.0	998.5	1011.3	1008.4
30°	874.6	750.7	697.5	681.8	691.7	736.9	834.5	1011.7	1037.2	1042.3
32.5°	863.3	762.0	738.7	745.6	732.9	748.5	822.9	1030.2	1068.5	1076.9
35°	878.3	862.2	921.3	948.6	903.4	844.0	837.8	1058.3	1112.6	1125.0
37.5°	950.8	1076.9	1165.1	1261.3	1182.9	1052.1	911.8	1106.0	1175.7	1195.3
40°	1108.6	1264.2	1423.5	1547.7	1429.3	1253.3	1052.5	1177.1	1262.4	1280.2
42.5°	1257.3	1439.9	1659.3	1820.0	1666.2	1417.6	1204.1	1296.6	1376.8	1386.7
45°	1403.1	1612.2	1944.6	2168.0	1959.2	1574.0	1359.0	1498.5	1559.0	1559.4
47.5°	1574.0	1806.5	2302.5	2620.6	2348.0	1747.1	1504.4	1818.1	1902.3	1861.1
50°	1778.4	1999.6	2670.9	3147.2	2822.2	1959.9	1689.1	2207.7	2322.5	2275.9
52.5°	2052.1	2212.5	3076.9	3660.7	3338.9	2202.3	1957.0	2722.3	2760.2	2673.1
55°	2437.3	2519.7	3598.0	4294.8	3915.8	2500.7	2348.8	3368.1	3262.0	3012.4
57.5°	3314.5	3005.8	4267.1	5018.2	4568.5	3043.0	3207.4	4080.2	3703.0	3282.1
60°	4048.5	3596.2	4886.3	5736.1	5127.9	3640.7	4013.5	4204.1	3686.6	3252.2
62.5°	3801.0	3746.7	5109.7	5815.2	5318.9	3934.8	3863.7	3891.8	3446.1	3053.6
65°	3334.9	3456.3	4910.3	5440.2	5107.1	3671.3	3494.9	3603.1	3170.9	2775.5
67.5°	3059.8	3149.0	4555.7	4840.0	4722.3	3386.3	3208.1	3129.7	2743.8	2407.8
70°	2778.4	2852.4	4057.9	4086.7	4122.1	2912.5	2623.2	2389.9	2045.2	1810.1
72.5°	2400.9	2404.9	3428.6	3261.7	3328.7	2279.1	2111.5	1786.8	1488.7	1275.5
75°	2014.2	1904.2	2713.9	2279.9	2414.4	1773.0	1753.3	1346.6	1122.8	947.9
77.5°	1535.7	1407.1	1982.5	1499.3	1695.7	1180.8	1318.1	913.3	790.1	630.8
80°	1031.0	950.8	1095.5	846.2	1109.3	813.8	859.7	517.5	448.6	348.0
82.5°	543.7	464.3	677.1	501.8	669.1	447.2	322.5	160.0	136.3	110.1
85°	210.6	243.8	332.0	178.6	259.5	159.6	93.3	39.7	33.2	25.1
87.5°	40.8	63.0	34.6	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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