

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: P631824

Luminaire Tested: GWS-SA2B-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

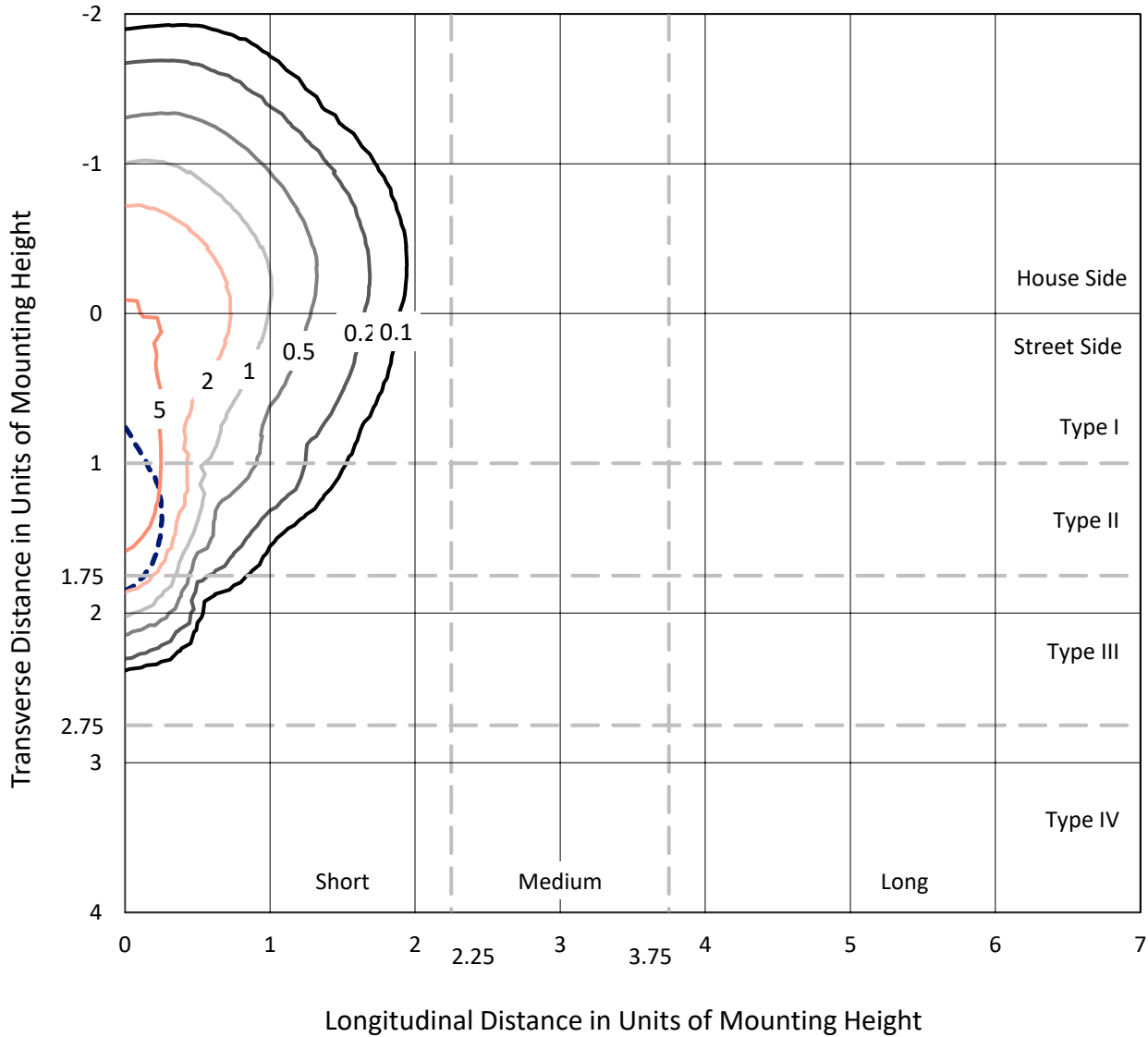
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

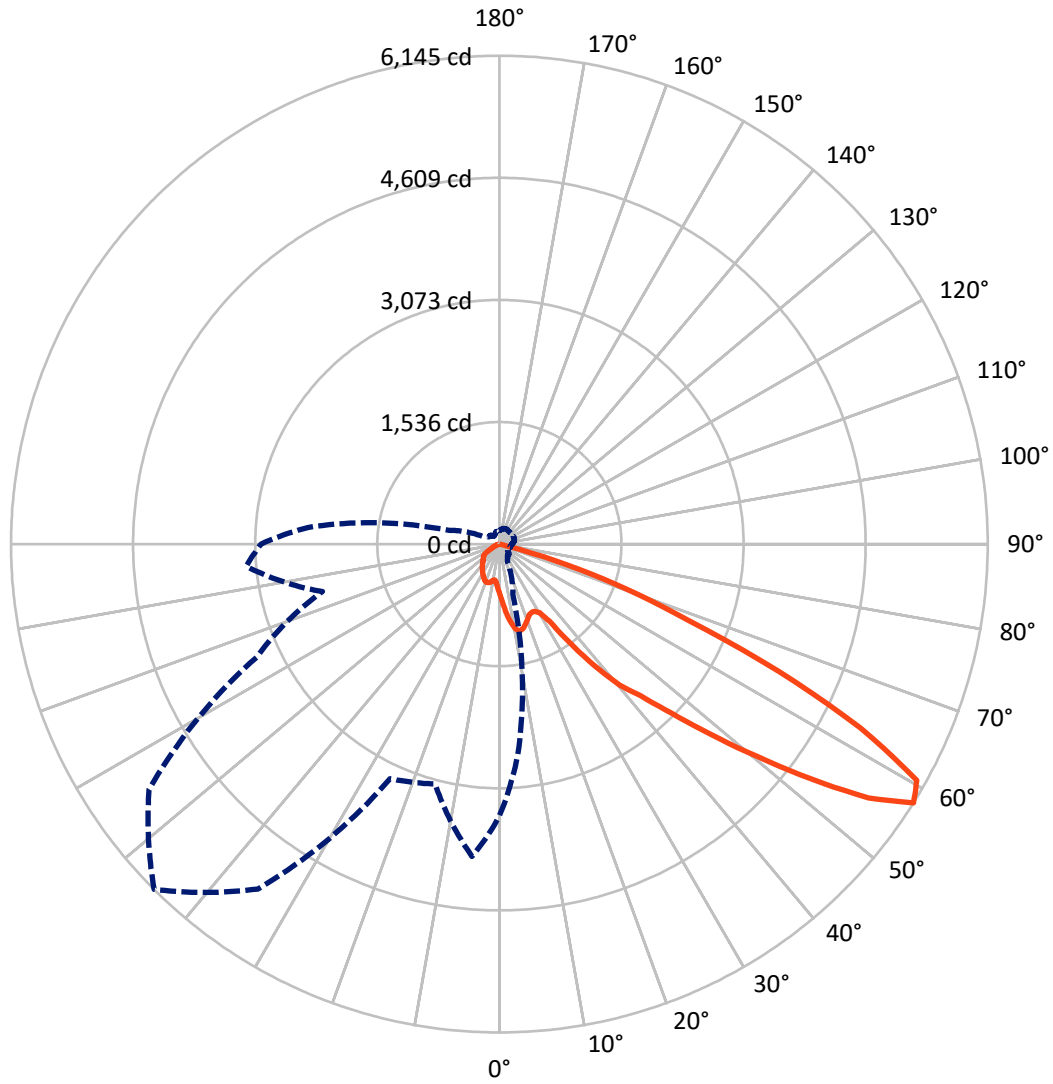
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	797.2	0.0	797.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	2903.4	0.0	2903.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	3700.6	0.0	3700.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	1.7
10°-20°	204.5	5.5
20°-30°	331.9	9.0
30°-40°	509.4	13.8
40°-50°	813.5	22.0
50°-60°	1139.0	30.8
60°-70°	584.0	15.8
70°-80°	56.2	1.5
80°-90°	0.0	0.0
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°	3700.6	100.0
0°-180°	3700.6	100.0

Coefficient of Utilization



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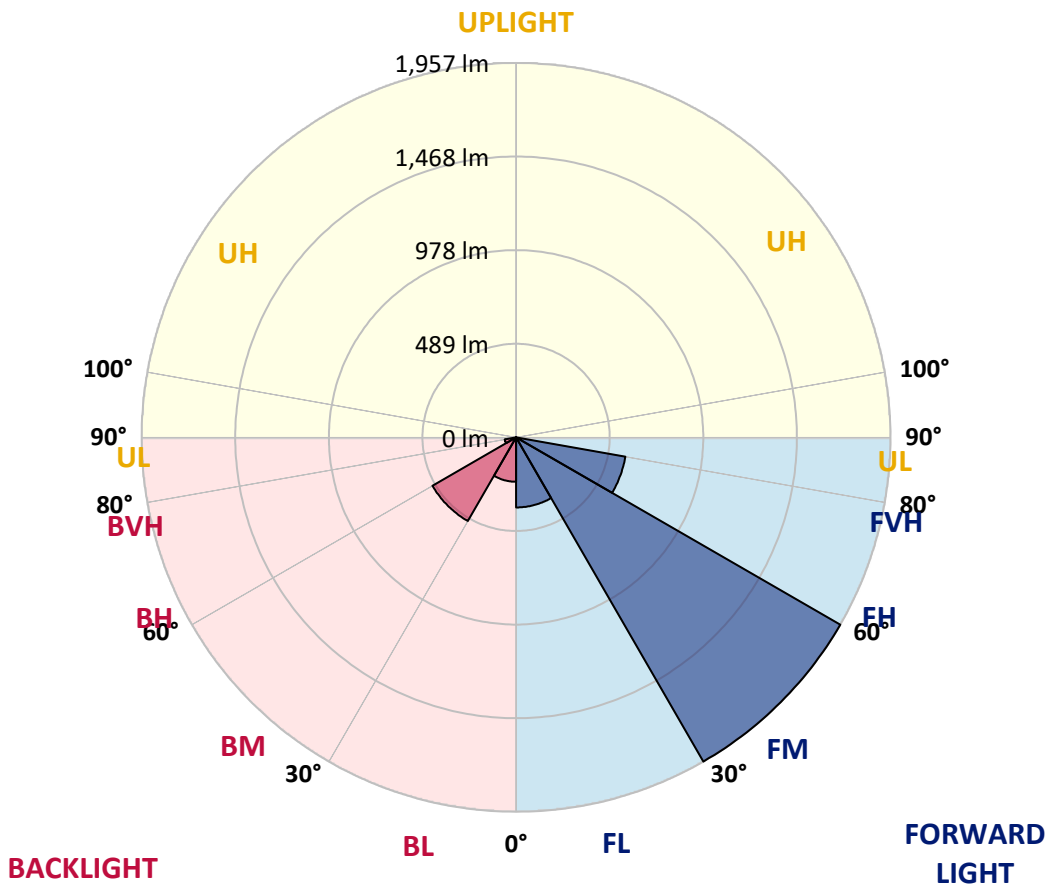
CATALOG NUMBER: GWS-SA2B-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.4	9.9			
FM (30°-60°)	1957.0	52.9			
FH (60°-80°)	580.0	15.7			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	232.1	6.3	B1/500		
BM (30°-60°)	504.9	13.6	B1/1000		
BH (60°-80°)	60.2	1.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	698.5	697.1	692.1	675.3	664.9	648.6	636.7	621.4	604.5	594.2	583.8
5°	772.7	768.8	755.4	716.8	687.2	655.0	629.3	601.1	570.9	551.1	532.8
7.5°	844.0	838.1	820.2	754.9	709.9	663.9	627.3	586.2	543.7	514.0	491.3
10°	913.7	900.4	872.2	792.0	731.2	675.8	632.7	585.7	535.8	498.2	473.0
12.5°	971.1	961.2	922.6	827.2	749.0	678.3	625.3	581.8	548.1	522.9	499.7
15°	1020.6	1009.7	973.1	858.8	764.3	668.4	594.2	556.1	561.5	571.4	551.6
17.5°	1066.1	1054.7	1015.2	885.1	770.3	644.1	550.6	532.3	562.5	599.6	592.2
20°	1113.1	1100.3	1051.8	906.3	768.3	606.0	506.6	512.0	554.6	597.1	601.1
22.5°	1168.0	1154.7	1098.3	933.5	766.8	560.5	468.5	494.2	539.7	575.9	582.8
25°	1240.8	1224.9	1163.1	973.6	770.8	519.0	441.3	476.9	514.5	547.2	551.1
27.5°	1336.7	1316.4	1237.8	1023.1	779.2	486.3	429.4	453.2	482.4	511.5	515.0
30°	1461.9	1436.2	1323.4	1066.1	775.2	463.6	421.5	429.4	446.7	470.5	471.0
32.5°	1608.3	1573.2	1419.3	1103.2	741.1	446.7	410.6	405.2	409.1	427.4	430.9
35°	1780.5	1735.0	1525.2	1138.3	678.8	414.1	390.8	372.5	371.0	379.9	388.4
37.5°	1977.9	1923.5	1658.8	1183.4	605.0	379.9	361.6	343.3	335.4	339.9	352.7
40°	2159.9	2099.6	1798.3	1237.8	529.8	349.3	327.5	308.7	299.3	300.8	316.6
42.5°	2373.7	2311.3	1969.0	1309.0	467.5	328.5	291.9	272.6	260.2	267.1	285.5
45°	2698.2	2627.4	2217.8	1370.9	418.0	323.5	260.7	233.5	227.6	239.4	261.2
47.5°	3141.5	3054.9	2559.7	1408.5	376.0	328.0	238.9	201.8	203.3	216.7	238.5
50°	3581.3	3487.8	2955.0	1359.0	341.4	319.1	228.1	177.1	186.5	198.4	218.2
52.5°	3883.5	3761.8	3147.4	1216.0	309.7	285.5	227.1	153.9	171.7	175.6	192.4
55°	3895.4	3745.5	3048.9	958.8	266.7	240.9	216.7	134.6	155.3	156.8	171.2
57.5°	3414.5	3279.0	2664.6	658.5	237.0	176.6	172.7	117.7	127.6	140.0	148.9
60°	2597.8	2482.5	1992.7	301.8	180.1	112.3	118.2	101.4	95.5	113.8	122.7
62.5°	1591.0	1517.3	1195.2	133.6	114.8	59.9	71.7	80.6	71.7	78.7	86.1
65°	631.8	599.1	453.7	56.9	47.0	30.2	32.7	47.0	50.5	55.4	62.3
67.5°	109.8	103.9	76.2	25.2	19.3	18.3	15.8	21.8	30.7	34.1	39.6
70°	14.3	13.9	12.4	10.4	9.9	8.9	6.9	13.9	20.8	21.8	25.2
72.5°	3.5	3.0	3.0	2.5	3.0	1.0	1.0	7.4	14.8	15.3	17.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	9.4	10.4	12.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	575.4	565.5	562.0	557.1	550.6	552.6	543.7	540.7	545.2	551.1	549.6
5°	522.9	512.0	504.6	493.2	491.3	486.8	483.8	479.9	484.8	491.7	493.2
7.5°	481.4	472.0	464.5	461.1	458.6	456.6	450.7	447.7	447.7	450.7	453.2
10°	463.6	456.6	455.1	456.1	460.1	459.6	454.2	450.2	445.2	442.8	445.7
12.5°	488.3	476.9	474.9	475.4	480.4	479.9	473.9	469.0	468.0	469.0	478.4
15°	530.3	513.0	500.2	497.7	500.2	499.2	494.7	491.7	493.2	507.6	523.4
17.5°	567.9	541.2	518.0	509.1	508.6	507.1	502.6	501.6	509.1	535.8	559.0
20°	578.8	552.6	519.5	508.1	505.6	504.1	499.2	500.7	510.1	542.2	562.0
22.5°	564.5	539.2	504.6	493.2	491.3	490.8	485.8	487.8	495.7	523.9	540.2
25°	537.3	516.0	479.9	470.0	470.0	469.0	464.5	465.5	470.5	495.2	511.0
27.5°	504.1	483.8	453.7	443.8	445.2	446.7	441.3	439.8	443.8	467.0	476.4
30°	466.0	451.7	427.9	419.0	418.5	424.5	417.0	415.1	420.5	438.8	440.8
32.5°	428.9	422.0	405.2	398.2	398.7	399.7	395.8	395.8	400.7	410.6	410.1
35°	392.8	388.4	385.4	380.4	379.9	378.0	378.0	379.0	384.4	387.9	381.4
37.5°	358.2	362.6	366.1	361.1	357.2	357.2	357.2	361.6	366.6	365.1	354.2
40°	327.5	336.9	347.8	342.3	332.9	332.5	334.4	341.9	349.3	340.4	330.5
42.5°	301.3	313.2	328.5	325.5	315.1	313.7	315.1	324.5	330.5	319.1	308.2
45°	275.6	290.4	308.7	308.7	297.3	295.8	296.3	308.7	312.2	298.8	285.0
47.5°	253.8	270.1	289.4	289.4	280.0	277.0	279.5	292.4	294.9	276.1	263.2
50°	233.0	250.8	272.1	270.6	264.2	261.7	266.2	280.0	277.0	256.3	242.9
52.5°	206.8	225.6	254.8	256.3	252.8	253.3	258.7	267.6	259.2	234.0	222.6
55°	183.0	202.3	231.5	239.4	239.4	238.9	241.4	248.3	241.4	211.2	197.4
57.5°	157.3	173.6	197.9	199.9	201.4	195.9	199.4	208.8	205.3	179.6	171.7
60°	129.1	143.0	156.8	158.3	151.9	140.5	146.9	157.8	160.3	141.0	132.1
62.5°	91.5	104.9	121.2	121.2	114.8	103.4	111.8	121.2	117.7	98.0	92.5
65°	68.3	80.6	93.0	98.4	93.0	85.1	91.5	98.4	93.0	76.7	68.8
67.5°	44.0	52.4	59.9	64.3	65.3	64.3	67.3	65.3	58.9	48.0	43.5
70°	26.7	31.2	35.1	39.1	42.1	43.5	45.0	40.6	34.1	28.2	26.7
72.5°	19.3	23.3	26.7	29.7	33.1	34.1	34.1	31.2	25.2	19.8	18.3
75°	13.4	16.8	19.8	21.8	24.7	25.7	25.7	23.3	18.8	14.3	12.9
77.5°	0.5	3.5	3.5	3.0	4.0	4.9	4.9	5.9	5.4	4.0	3.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	552.6	570.4	575.4	593.7	610.0	626.3	646.1	658.0	675.8	688.2	695.1
5°	498.2	513.0	530.8	558.0	586.2	617.4	655.0	687.7	728.7	758.9	768.8
7.5°	458.6	477.9	498.7	532.8	571.4	613.0	665.9	719.3	782.1	823.2	849.4
10°	451.2	471.0	498.7	532.3	572.9	620.4	685.2	754.4	833.1	883.1	912.8
12.5°	486.8	508.1	519.9	535.3	566.0	618.9	702.0	790.1	882.6	937.0	968.7
15°	539.2	558.0	538.7	519.5	539.2	603.1	711.4	819.7	926.1	988.9	1021.6
17.5°	575.4	576.8	534.8	493.7	499.2	574.4	714.9	849.4	972.6	1038.4	1072.5
20°	571.9	560.0	517.5	472.0	455.1	537.3	710.9	875.7	1019.6	1088.4	1122.0
22.5°	545.2	531.3	495.2	450.7	418.0	493.2	704.0	899.4	1062.7	1140.8	1172.5
25°	513.0	498.2	468.5	429.4	394.3	450.7	698.5	932.0	1117.1	1209.1	1233.8
27.5°	475.4	462.6	437.3	409.1	384.4	418.5	697.1	975.1	1182.9	1292.2	1309.5
30°	438.8	426.9	407.2	390.8	380.4	399.7	692.1	1021.1	1261.5	1387.7	1406.5
32.5°	403.7	391.8	379.4	377.0	377.5	392.8	675.3	1066.6	1355.0	1526.2	1540.1
35°	373.5	359.7	354.7	360.6	371.5	380.9	627.8	1104.2	1455.5	1677.1	1688.5
37.5°	344.8	331.0	330.5	344.8	356.7	362.6	571.9	1141.3	1591.0	1830.5	1844.8
40°	318.6	304.7	309.7	327.0	336.4	339.4	504.1	1197.7	1734.5	1992.2	1984.3
42.5°	296.3	282.0	285.0	307.2	315.6	323.5	441.8	1244.7	1872.5	2145.6	2143.1
45°	274.6	263.7	261.7	285.9	293.4	325.0	396.3	1280.8	2050.1	2341.0	2345.0
47.5°	253.3	244.9	245.4	255.8	274.1	332.5	357.7	1304.6	2307.9	2650.7	2581.9
50°	234.0	227.6	233.0	221.1	261.7	323.1	324.5	1299.6	2595.8	2947.5	2809.5
52.5°	212.7	211.2	213.7	185.0	241.9	285.0	293.4	1233.8	2730.8	3150.4	3071.7
55°	191.0	190.5	170.7	147.9	202.3	227.6	251.3	1029.5	2726.4	3258.2	3353.7
57.5°	165.2	161.3	129.6	120.7	157.3	158.3	229.1	674.3	2416.2	3000.0	3197.9
60°	125.2	122.2	95.0	98.0	109.8	101.4	182.6	335.9	1805.7	2337.0	2560.2
62.5°	86.6	82.6	70.7	75.7	70.7	57.9	111.8	166.2	1093.8	1475.7	1678.1
65°	63.3	58.9	48.5	41.6	33.1	33.1	42.5	63.8	423.5	627.3	756.4
67.5°	39.1	37.1	28.7	20.8	20.3	21.8	22.3	31.7	68.3	108.8	133.1
70°	25.2	23.3	19.3	13.4	12.4	12.9	13.4	14.8	17.3	18.8	22.8
72.5°	17.3	16.3	13.9	7.4	5.9	6.4	6.9	6.9	8.4	7.9	9.4
75°	12.4	11.4	9.9	3.5	2.0	2.5	3.0	2.5	3.0	2.0	2.5
77.5°	3.5	3.5	2.5	0.5	0.0	0.5	1.0	1.0	0.5	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	712.9	724.3	728.7	722.3	727.7	718.8	715.4	702.0	701.0	698.5
5°	808.9	834.6	849.9	859.3	848.4	836.6	818.8	788.1	778.7	772.7
7.5°	903.4	943.4	969.6	982.0	979.0	954.8	922.6	871.2	852.9	844.0
10°	985.5	1034.5	1066.1	1081.5	1075.0	1053.7	1007.7	943.4	919.2	913.7
12.5°	1042.9	1087.9	1109.7	1123.0	1123.5	1115.1	1071.6	1006.8	978.1	971.1
15°	1079.0	1098.3	1098.8	1106.7	1120.5	1139.3	1119.1	1061.7	1031.0	1020.6
17.5°	1101.7	1080.5	1058.7	1060.7	1083.4	1133.4	1154.2	1110.1	1077.5	1066.1
20°	1118.1	1050.8	1010.2	1010.7	1034.0	1109.7	1178.4	1157.1	1123.5	1113.1
22.5°	1128.5	1024.6	966.7	965.2	989.9	1081.5	1200.7	1213.0	1179.9	1168.0
25°	1149.7	1012.2	940.5	948.9	970.6	1072.5	1230.9	1287.3	1256.6	1240.8
27.5°	1187.8	1024.6	938.0	957.3	982.0	1098.8	1283.3	1386.2	1354.5	1336.7
30°	1253.6	1071.1	976.1	1002.8	1032.5	1167.5	1371.4	1524.2	1478.7	1461.9
32.5°	1359.5	1167.5	1093.8	1151.2	1179.9	1280.3	1503.4	1679.1	1642.0	1608.3
35°	1505.4	1387.7	1379.3	1512.8	1505.9	1494.0	1665.7	1869.0	1813.1	1780.5
37.5°	1706.3	1741.9	1804.2	1936.8	1932.4	1841.8	1878.9	2048.6	2019.9	1977.9
40°	1957.1	2032.8	2138.7	2328.6	2269.3	2155.5	2140.6	2232.7	2209.4	2159.9
42.5°	2105.0	2235.6	2437.5	2608.2	2560.7	2361.8	2345.0	2478.5	2427.6	2373.7
45°	2173.8	2400.9	2796.6	3027.7	2883.7	2498.8	2492.4	2799.1	2770.4	2698.2
47.5°	2205.5	2567.6	3217.2	3566.9	3297.8	2619.0	2595.8	3264.2	3226.6	3141.5
50°	2240.6	2797.6	3723.7	4191.7	3798.0	2755.1	2771.9	3697.5	3681.7	3581.3
52.5°	2317.8	3041.0	4347.6	4906.1	4404.5	2968.3	3074.2	4106.2	3999.3	3883.5
55°	2433.5	3306.2	4996.7	5635.8	5023.4	3254.8	3401.2	4323.3	4023.5	3895.4
57.5°	2305.4	3372.5	5381.0	6145.4	5297.9	3255.7	3124.6	3946.9	3538.7	3414.5
60°	1829.5	3137.5	5233.1	6035.1	5063.9	2891.1	2392.5	3081.6	2680.9	2597.8
62.5°	1236.8	2631.4	4606.8	5104.0	4334.2	2274.2	1554.9	2004.1	1659.8	1591.0
65°	677.8	1963.0	3722.3	3861.3	3392.3	1588.5	800.0	869.7	662.4	631.8
67.5°	187.0	1366.4	2738.8	2561.7	2380.1	1034.5	206.8	155.3	110.8	109.8
70°	47.0	903.9	1641.0	1691.4	1459.4	662.4	39.6	18.8	14.8	14.3
72.5°	19.8	388.8	778.7	894.9	747.0	306.7	14.3	5.4	4.5	3.5
75°	2.5	31.2	66.3	100.4	68.8	33.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
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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