

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: P631827

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631827  
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-740-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

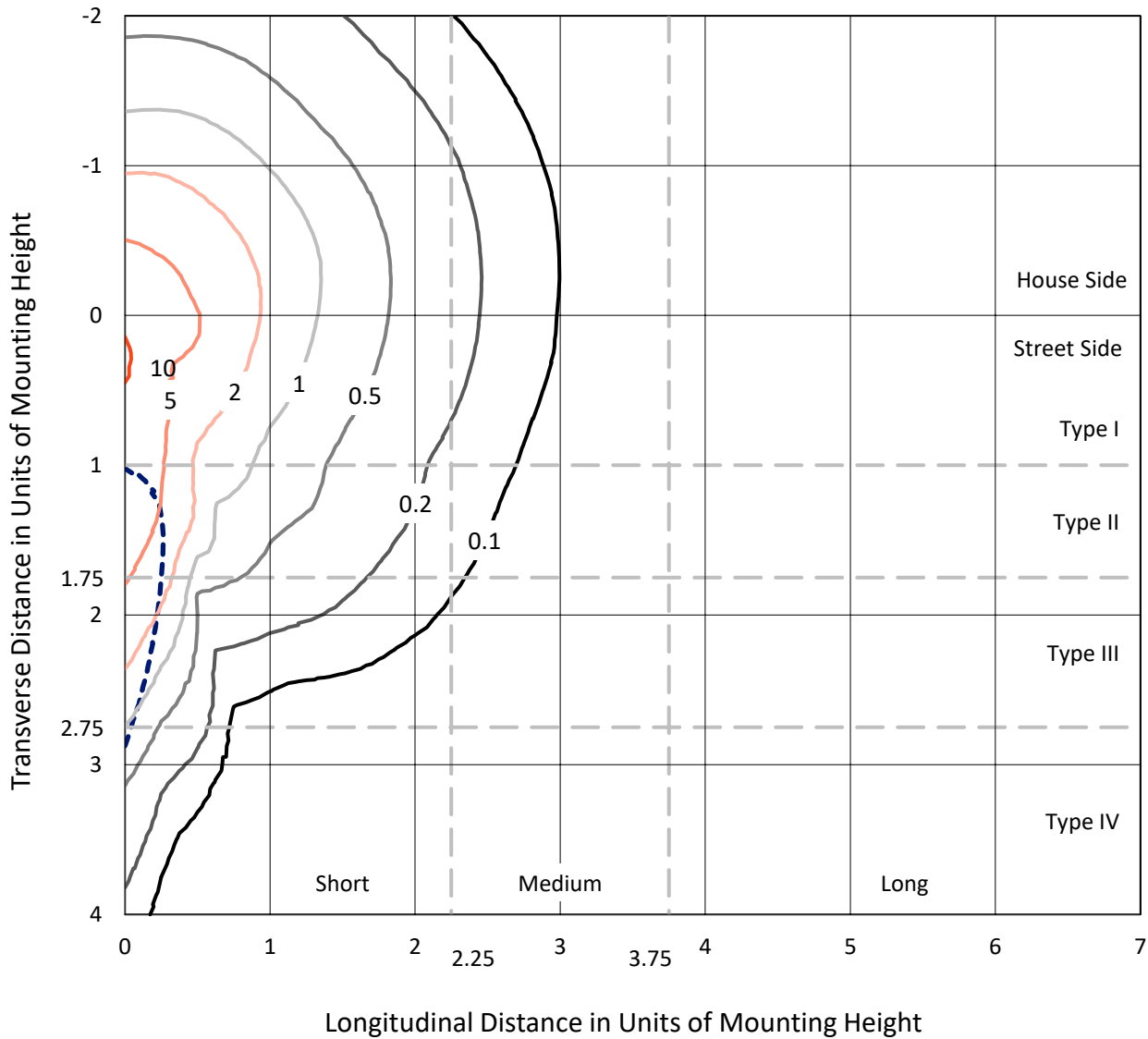
Lumens per Lamp: N/A  
Luminaire Lumens: 6468.1 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

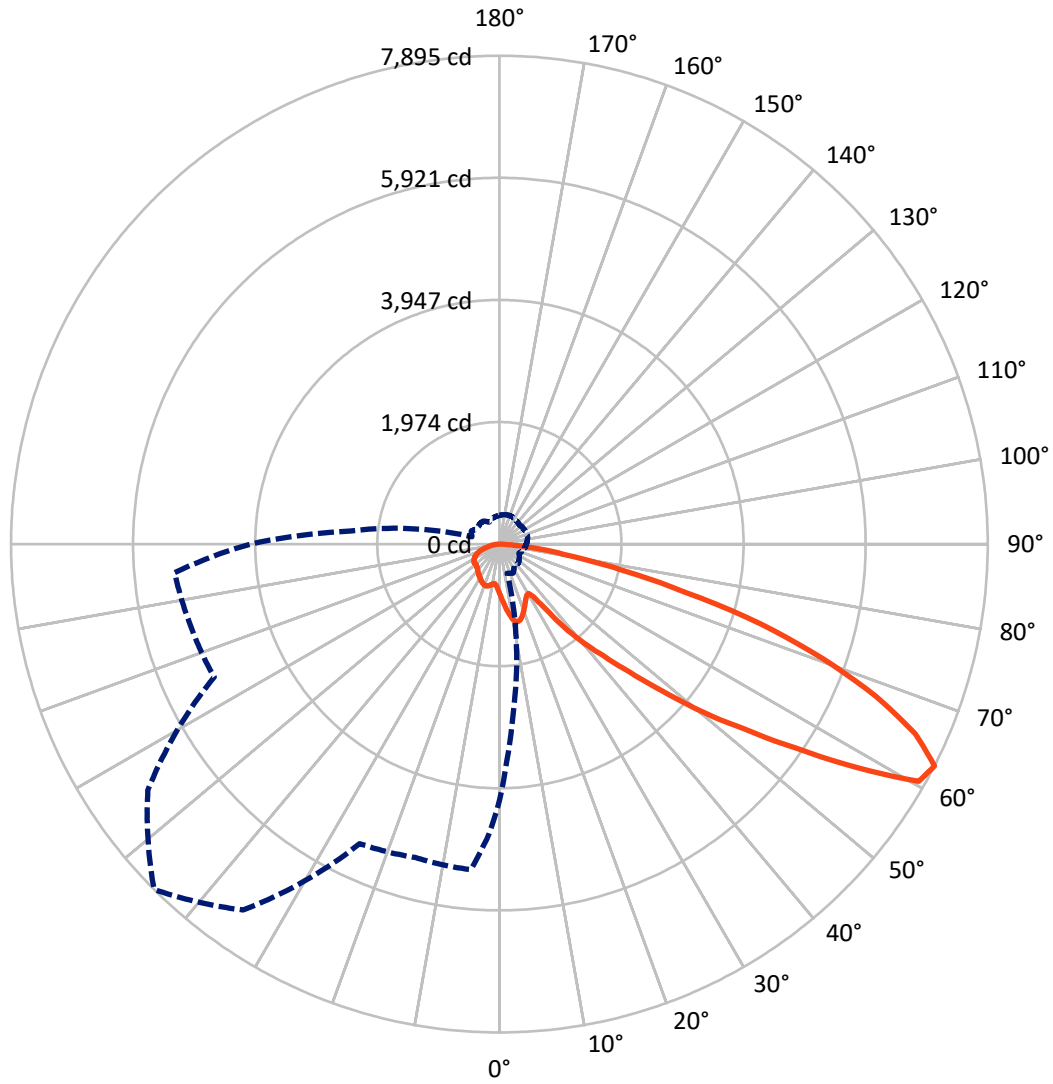
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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	1546.5	0.0	1546.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4921.6	0.0	4921.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	6468.1	0.0	6468.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	1.2
10°-20°	258.2	4.0
20°-30°	406.5	6.3
30°-40°	557.1	8.6
40°-50°	869.3	13.4
50°-60°	1498.9	23.2
60°-70°	1737.0	26.9
70°-80°	916.9	14.2
80°-90°	144.8	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°	6468.1	100.0
0°-180°	6468.1	100.0

**Coefficient of Utilization**



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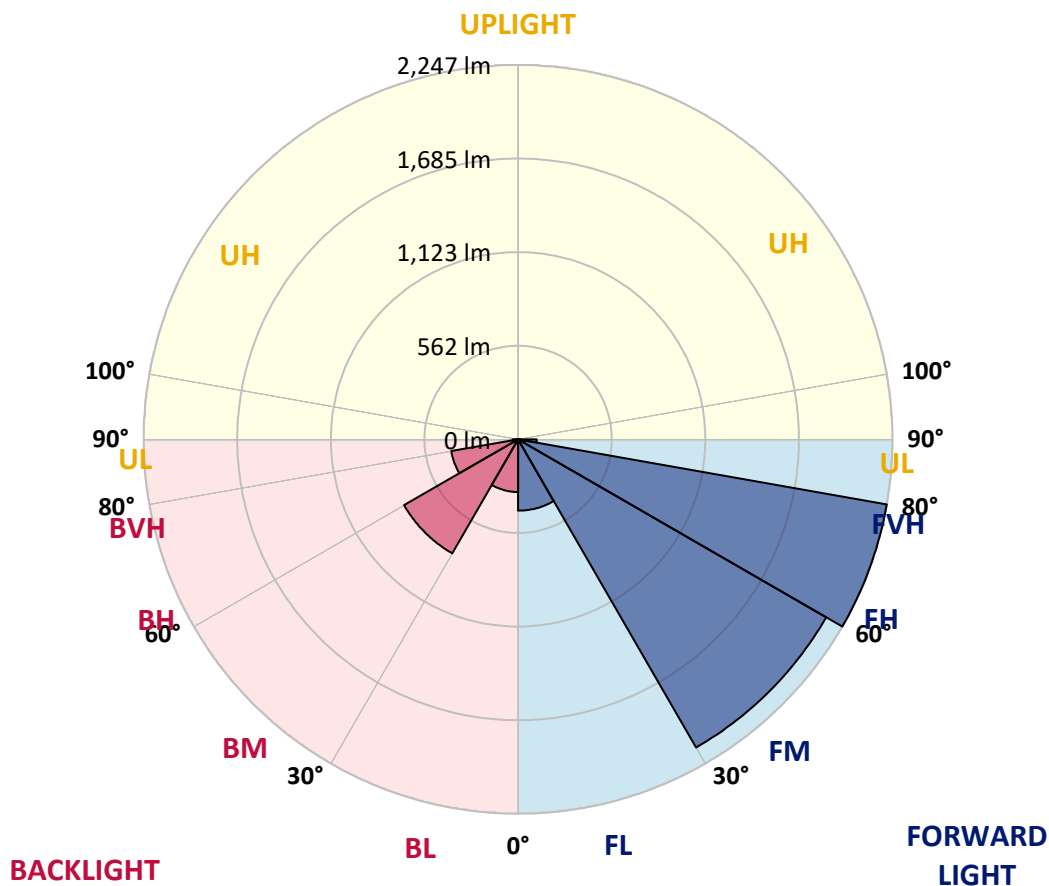
CATALOG NUMBER: GWS-SA2B-740-U-SLL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.8	6.6			
FM (30°-60°)	2135.3	33.0			
FH (60°-80°)	2246.6	34.7			G2/5000
FVH (80°-90°)	111.8	1.7			G2/225
BL (0°-30°)	316.3	4.9	B1/500		
BM (30°-60°)	790.0	12.2	B1/1000		
BH (60°-80°)	407.2	6.3	B1/500		G1/500
BVH (80°-90°)	33.0	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2.5°	876.2	872.7	867.8	851.0	840.6	828.7	816.3	802.0	785.7	774.3	762.9
5°	950.4	945.0	933.1	893.0	865.3	835.1	809.9	781.2	753.0	733.7	714.4
7.5°	1021.7	1014.7	996.4	935.1	890.1	846.5	808.4	766.9	724.8	696.1	673.4
10°	1092.9	1078.5	1055.3	975.1	915.8	865.3	821.8	770.8	714.9	675.8	651.6
12.5°	1147.3	1134.0	1108.7	1011.8	941.5	878.2	829.2	782.2	734.7	693.1	668.4
15°	1198.3	1181.0	1152.3	1045.9	962.8	877.7	814.4	773.3	766.4	756.0	723.8
17.5°	1234.9	1219.1	1189.4	1073.6	974.7	862.3	773.3	749.0	780.2	811.9	781.2
20°	1267.0	1248.7	1218.6	1092.9	977.1	828.2	723.3	723.8	772.8	816.3	808.9
22.5°	1294.3	1274.0	1247.3	1114.7	976.1	780.7	679.8	709.5	758.4	792.6	793.6
25°	1327.9	1311.1	1288.8	1146.8	976.1	732.2	648.1	692.2	734.2	762.9	761.9
27.5°	1369.0	1357.6	1339.3	1195.8	985.0	691.7	630.3	669.9	703.0	727.8	727.3
30°	1415.0	1404.6	1390.7	1247.8	1000.4	661.5	620.4	642.2	666.4	686.2	686.2
32.5°	1462.0	1458.0	1443.2	1289.3	988.5	652.1	612.0	614.5	627.3	643.7	642.2
35°	1527.3	1523.3	1504.5	1321.5	937.1	638.7	598.6	586.3	587.8	598.1	601.6
37.5°	1622.8	1616.8	1589.1	1359.1	859.4	605.1	576.9	556.6	552.1	556.6	563.0
40°	1738.0	1729.1	1691.5	1410.0	769.8	559.6	542.7	525.9	518.5	520.0	527.4
42.5°	1882.5	1863.7	1809.8	1464.0	681.3	519.5	504.6	494.3	485.8	484.9	499.2
45°	2117.0	2065.6	1980.0	1511.9	606.6	498.2	470.5	463.1	456.2	460.1	476.9
47.5°	2526.7	2431.7	2265.0	1553.0	561.0	498.7	443.3	435.4	434.9	442.8	461.6
50°	3089.7	2952.7	2695.4	1580.7	537.3	504.6	427.0	414.1	423.5	431.4	449.2
52.5°	3629.0	3419.7	3113.4	1580.2	526.9	505.6	431.4	394.3	423.5	425.5	442.3
55°	4089.6	3710.6	3226.2	1417.9	512.1	501.7	448.7	379.0	418.1	425.5	438.8
57.5°	4455.7	3895.6	3217.8	1145.3	557.1	479.9	459.1	375.5	402.2	426.5	441.8
60°	4415.1	3811.0	3010.5	703.0	552.6	441.3	457.6	381.9	375.5	413.1	438.3
62.5°	4145.5	3507.8	2653.8	487.8	519.0	419.1	433.4	393.3	350.8	393.8	421.5
65°	3768.0	3116.4	2211.5	374.0	429.9	420.0	392.3	385.4	329.0	363.1	392.8
67.5°	3268.8	2631.1	1746.0	296.4	299.8	363.6	356.2	342.4	308.7	335.9	362.6
70°	2457.4	1920.1	1201.2	238.5	227.1	303.8	320.1	307.7	288.9	296.8	325.0
72.5°	1731.6	1253.7	658.0	189.0	175.1	233.5	278.0	276.1	255.3	261.2	288.9
75°	1286.8	887.1	411.1	149.4	142.5	167.2	233.0	239.0	221.6	228.6	249.8
77.5°	856.4	574.4	228.6	110.8	110.8	122.2	173.7	201.4	188.5	193.9	208.8
80°	472.5	292.4	114.3	72.7	74.7	84.1	126.7	145.0	145.5	158.8	162.8
82.5°	149.4	93.0	51.0	42.5	40.1	48.0	81.6	103.9	97.0	123.7	113.8
85°	34.1	21.8	9.4	9.4	10.4	15.8	31.2	55.4	70.7	85.1	61.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	21.8	32.2	28.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2.5°	756.0	746.1	743.1	734.7	733.7	725.8	722.8	722.8	726.3	726.3	729.8
5°	706.5	694.1	687.2	677.3	674.8	668.9	664.9	665.4	669.9	672.9	678.8
7.5°	663.0	654.6	649.6	645.2	644.2	643.2	638.7	638.2	639.7	644.2	648.6
10°	644.7	638.7	640.2	643.7	649.1	652.1	648.1	646.1	644.7	647.6	651.6
12.5°	662.5	656.5	659.5	665.4	672.9	675.8	674.3	673.8	675.3	686.7	695.1
15°	701.6	690.2	686.2	688.7	694.6	697.6	696.1	698.1	707.5	737.2	758.4
17.5°	750.0	722.3	706.5	702.0	704.5	707.0	707.0	711.9	728.3	771.8	798.5
20°	776.3	740.1	713.4	702.5	703.5	706.0	706.0	712.9	731.2	777.7	795.1
22.5°	769.3	736.2	703.5	691.7	692.2	694.1	694.1	700.1	716.4	757.5	765.4
25°	742.1	712.9	680.8	670.4	671.4	674.8	673.8	677.3	689.7	723.3	727.8
27.5°	709.5	683.7	652.1	644.2	648.6	655.5	649.6	650.1	661.5	689.7	690.2
30°	674.3	653.1	624.9	618.9	627.3	630.8	625.4	625.4	636.7	656.0	655.5
32.5°	636.2	622.9	602.6	596.2	605.6	611.0	604.1	605.1	614.0	626.8	621.9
35°	600.6	593.7	584.3	579.8	585.8	590.7	586.3	588.3	596.7	600.1	593.2
37.5°	566.5	565.5	566.5	566.5	568.0	569.5	566.5	571.4	578.9	574.4	566.5
40°	536.8	540.8	550.2	547.7	546.2	547.7	545.7	554.1	561.5	553.6	544.2
42.5°	512.1	519.5	533.8	533.8	530.9	531.9	530.9	541.3	546.7	535.8	525.4
45°	490.8	501.7	520.0	522.5	517.5	517.5	519.5	532.3	534.3	519.5	508.6
47.5°	475.9	489.3	510.1	514.5	507.1	506.6	512.1	525.9	525.9	508.6	496.2
50°	465.6	480.4	505.1	511.1	503.7	501.7	510.6	523.9	521.0	500.2	487.8
52.5°	458.6	474.0	504.6	513.1	508.1	506.1	515.0	524.4	517.0	494.7	481.9
55°	454.2	471.0	506.1	513.1	507.6	504.1	513.1	521.5	517.5	491.8	479.4
57.5°	456.7	473.5	504.1	507.6	501.2	495.2	505.6	517.5	516.0	492.8	480.4
60°	452.7	468.0	493.3	494.3	483.4	474.0	489.3	507.1	507.1	489.3	478.4
62.5°	434.4	449.7	472.0	473.0	460.6	450.2	468.0	489.3	488.8	474.5	463.1
65°	404.2	418.6	443.8	446.3	433.9	423.0	441.3	461.1	462.6	449.7	439.8
67.5°	371.1	383.9	402.7	412.6	402.2	390.9	407.7	426.5	426.0	410.6	400.3
70°	331.5	343.4	360.7	369.1	362.6	351.8	367.1	377.0	372.5	365.1	358.2
72.5°	292.4	303.8	320.1	320.1	313.2	302.8	307.2	325.0	330.5	325.0	320.6
75°	251.3	261.2	272.6	275.1	259.7	240.9	261.7	277.1	283.5	281.0	275.6
77.5°	209.3	216.7	233.5	229.1	200.4	190.5	207.3	230.1	234.5	233.0	225.6
80°	161.3	165.7	183.6	174.6	152.4	146.0	153.4	171.2	172.2	167.2	157.8
82.5°	108.3	114.3	126.2	108.8	108.3	102.4	96.5	98.5	107.4	106.4	99.9
85°	55.4	58.4	69.8	65.3	55.9	48.5	46.0	49.0	44.0	40.1	34.6
87.5°	23.3	25.2	34.6	19.3	5.9	0.0	0.0	3.0	4.5	6.4	6.9
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°	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2.5°	737.7	743.1	756.5	773.3	789.6	806.4	824.7	836.1	850.0	867.8	868.3
5°	686.2	698.6	717.9	743.6	770.3	801.0	836.6	866.3	901.9	930.1	941.5
7.5°	654.6	672.4	696.6	729.3	764.4	802.5	849.0	899.0	957.3	994.9	1017.2
10°	657.5	684.7	709.0	736.7	768.3	809.4	869.3	935.6	1007.3	1056.8	1084.5
12.5°	710.5	739.2	734.7	733.2	754.5	804.5	885.6	972.7	1060.2	1109.7	1142.9
15°	777.2	788.1	746.1	714.4	727.3	786.6	894.5	1005.8	1104.3	1164.6	1197.3
17.5°	811.4	789.6	738.7	691.2	687.7	759.4	899.0	1039.5	1153.8	1214.1	1248.7
20°	795.6	763.9	720.8	675.8	651.1	722.3	896.5	1066.2	1198.8	1266.1	1294.3
22.5°	761.4	733.7	700.1	657.0	621.4	681.8	890.1	1092.9	1238.8	1306.6	1331.4
25°	724.3	703.5	675.8	638.2	604.6	646.1	885.6	1128.5	1284.9	1349.7	1365.5
27.5°	687.2	671.9	649.1	619.9	600.6	621.4	887.1	1175.0	1344.2	1405.6	1399.1
30°	650.6	637.2	621.4	608.5	600.1	615.5	883.1	1224.5	1409.5	1466.4	1428.3
32.5°	616.0	603.6	593.7	595.7	600.6	617.9	862.8	1269.5	1469.4	1517.9	1460.0
35°	586.3	573.4	573.4	580.3	598.6	609.5	810.4	1304.6	1535.7	1584.2	1505.0
37.5°	558.6	547.2	554.6	566.0	583.3	586.8	743.1	1338.8	1632.2	1677.7	1574.8
40°	534.3	522.9	536.3	550.7	559.6	558.1	674.8	1386.3	1746.0	1793.0	1667.3
42.5°	515.0	504.6	516.5	534.8	536.3	537.8	624.9	1431.8	1878.1	1937.9	1826.6
45°	499.2	491.8	497.7	516.0	516.0	538.8	593.7	1469.9	2076.9	2182.8	2119.0
47.5°	486.8	482.4	485.3	491.3	501.2	556.6	573.9	1499.1	2439.1	2646.9	2582.6
50°	479.9	475.5	479.4	467.0	496.7	565.5	567.5	1521.3	2916.5	3242.1	3162.4
52.5°	474.0	472.5	475.0	446.3	506.6	559.6	562.5	1491.7	3236.6	3827.9	3906.5
55°	472.0	473.0	461.1	430.9	518.5	539.8	547.7	1279.4	3323.7	4333.0	4821.3
57.5°	473.0	470.0	439.8	432.4	519.0	500.2	569.0	912.8	3197.1	4552.7	5716.3
60°	469.5	454.7	414.1	445.8	496.2	453.7	553.6	595.2	2863.1	4384.0	5768.3
62.5°	454.2	432.4	391.8	453.2	455.7	426.0	502.7	458.6	2417.8	4022.8	5267.6
65°	431.9	402.7	373.0	437.9	414.6	413.1	378.0	367.6	1944.4	3592.9	4792.6
67.5°	395.3	366.1	359.2	402.7	373.0	366.1	303.8	304.8	1551.5	3134.7	4315.2
70°	353.7	324.6	330.0	364.1	332.0	304.3	245.9	253.8	1177.0	2611.8	3671.5
72.5°	326.5	287.4	287.9	320.6	291.9	246.4	202.4	209.3	747.1	1968.6	2919.0
75°	275.6	253.3	242.4	259.7	247.9	192.0	170.2	168.7	442.8	1411.0	2185.8
77.5°	230.1	212.7	207.3	214.2	185.0	142.0	137.0	134.6	250.8	903.9	1432.3
80°	166.7	162.3	161.8	165.2	142.5	104.4	104.4	104.9	135.1	490.8	807.4
82.5°	105.9	115.8	102.4	113.8	97.0	74.2	69.3	78.7	77.7	209.3	340.4
85°	44.0	60.4	56.4	59.9	46.0	40.6	43.5	47.0	45.0	80.6	132.6
87.5°	8.4	9.9	10.9	10.4	10.4	12.9	14.3	17.3	17.3	23.3	40.1
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°	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2.5°	887.1	901.4	898.5	904.9	896.5	899.5	882.6	878.2	875.2	876.2
5°	978.1	1007.3	1012.7	1023.6	1016.2	1016.2	986.5	964.3	956.3	950.4
7.5°	1070.6	1112.7	1140.4	1143.4	1139.4	1131.5	1088.4	1048.4	1034.0	1021.7
10°	1152.8	1203.2	1234.4	1249.2	1241.8	1229.4	1176.0	1121.1	1103.8	1092.9
12.5°	1215.6	1260.1	1280.9	1290.8	1289.8	1285.4	1241.8	1182.4	1164.1	1147.3
15°	1256.2	1278.4	1270.5	1270.0	1276.9	1294.8	1281.4	1234.9	1213.6	1198.3
17.5°	1282.4	1261.1	1226.0	1209.7	1224.5	1266.6	1297.2	1271.0	1251.7	1234.9
20°	1291.8	1216.1	1165.1	1135.0	1152.3	1213.1	1288.8	1297.2	1280.9	1267.0
22.5°	1280.9	1161.2	1091.9	1056.3	1073.1	1145.8	1264.1	1318.5	1307.6	1294.3
25°	1254.2	1103.8	1020.7	988.5	1006.8	1081.0	1220.0	1338.3	1338.8	1327.9
27.5°	1221.0	1050.8	970.7	940.5	958.3	1027.6	1177.0	1355.6	1372.9	1369.0
30°	1187.4	1019.2	946.9	925.7	939.0	1000.4	1133.0	1373.4	1408.1	1415.0
32.5°	1172.1	1034.5	1002.9	1012.3	994.9	1016.2	1117.1	1398.7	1450.6	1462.0
35°	1192.3	1170.6	1250.7	1287.8	1226.5	1145.8	1137.4	1436.7	1510.5	1527.3
37.5°	1290.8	1462.0	1581.7	1712.3	1605.9	1428.3	1237.9	1501.6	1596.1	1622.8
40°	1505.0	1716.3	1932.5	2101.2	1940.4	1701.4	1428.8	1598.0	1713.8	1738.0
42.5°	1706.9	1954.7	2252.6	2470.8	2262.0	1924.6	1634.6	1760.3	1869.2	1882.5
45°	1904.8	2188.8	2640.0	2943.3	2659.8	2136.8	1844.9	2034.4	2116.5	2117.0
47.5°	2136.8	2452.5	3125.8	3557.7	3187.7	2371.8	2042.3	2468.3	2582.6	2526.7
50°	2414.4	2714.7	3626.0	4272.6	3831.3	2660.8	2293.2	2997.2	3153.0	3089.7
52.5°	2785.9	3003.6	4177.2	4969.7	4532.9	2989.8	2656.8	3695.8	3747.2	3629.0
55°	3308.9	3420.7	4884.6	5830.6	5316.1	3395.0	3188.6	4572.5	4428.5	4089.6
57.5°	4499.7	4080.7	5793.0	6812.7	6202.2	4131.1	4354.3	5539.2	5027.1	4455.7
60°	5496.1	4882.2	6633.6	7787.3	6961.6	4942.5	5448.7	5707.4	5004.9	4415.1
62.5°	5160.2	5086.5	6936.9	7894.7	7220.8	5341.8	5245.3	5283.4	4678.3	4145.5
65°	4527.4	4692.2	6666.2	7385.6	6933.4	4984.1	4744.6	4891.6	4304.8	3768.0
67.5°	4153.9	4275.1	6184.8	6570.7	6410.9	4597.2	4355.3	4248.9	3725.0	3268.8
70°	3772.0	3872.4	5509.0	5548.1	5596.1	3954.0	3561.2	3244.6	2776.5	2457.4
72.5°	3259.4	3264.8	4654.6	4428.0	4519.0	3094.1	2866.6	2425.7	2021.0	1731.6
75°	2734.5	2585.1	3684.4	3095.1	3277.7	2406.9	2380.2	1828.1	1524.3	1286.8
77.5°	2084.9	1910.2	2691.4	2035.4	2302.1	1603.0	1789.5	1239.8	1072.6	856.4
80°	1399.6	1290.8	1487.2	1148.8	1506.0	1104.8	1167.1	702.5	609.0	472.5
82.5°	738.2	630.3	919.2	681.3	908.4	607.1	437.9	217.2	185.0	149.4
85°	286.0	331.0	450.7	242.4	352.3	216.7	126.7	53.9	45.0	34.1
87.5°	55.4	85.6	47.0	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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