

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: P636781

Luminaire Tested: GWS-SA4B-740-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

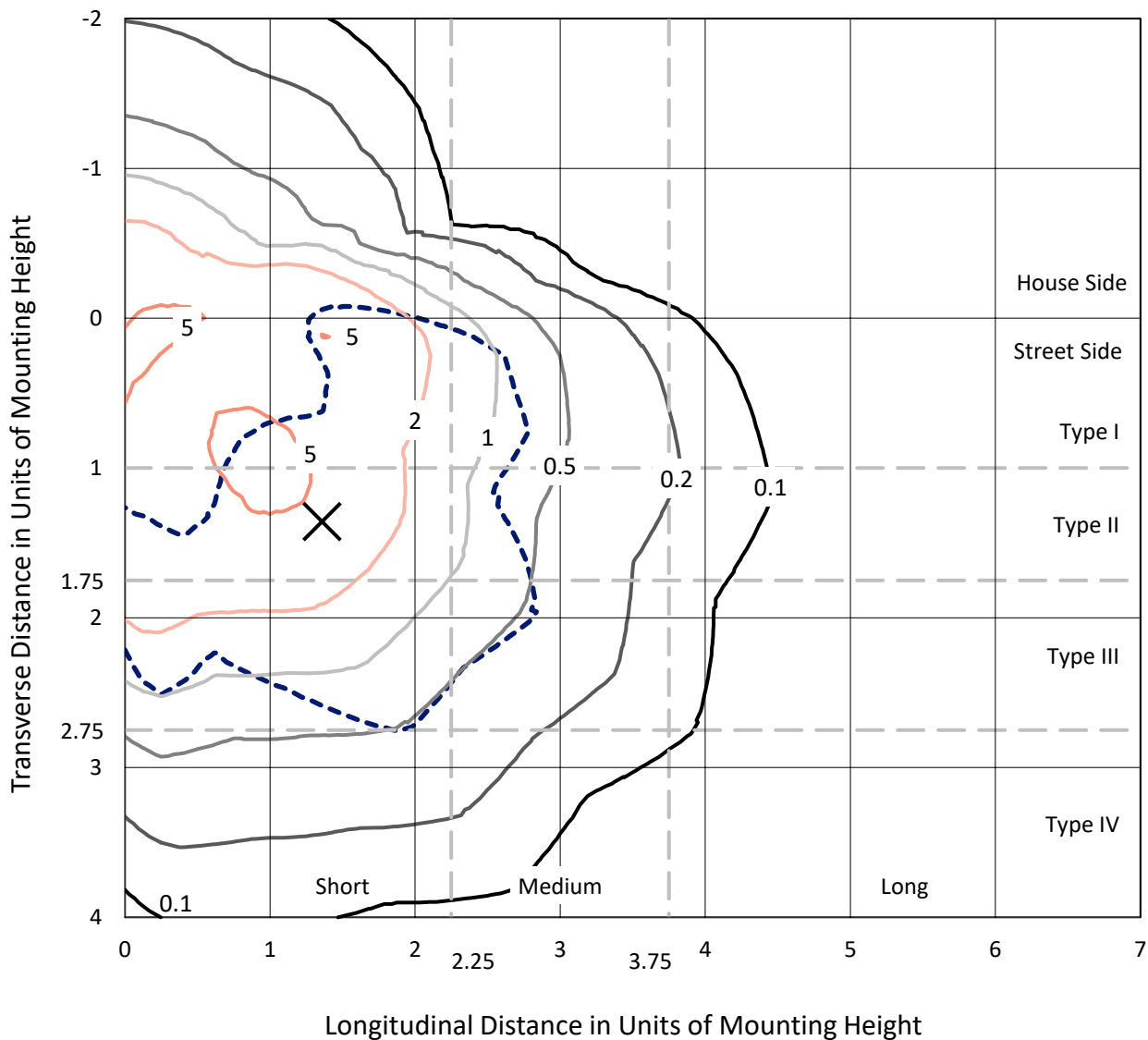
Lumens per Lamp: N/A  
Luminaire Lumens: 13704.9 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

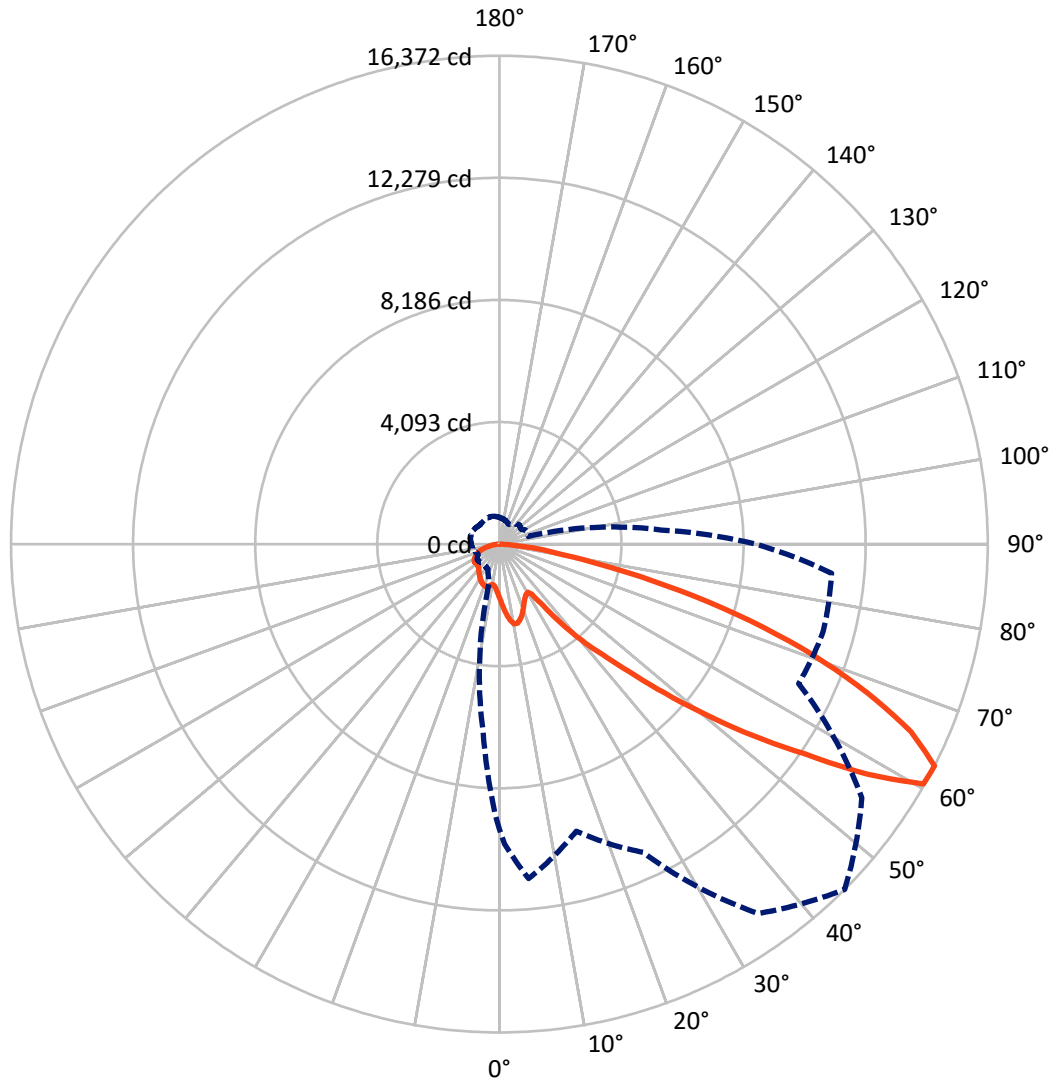
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - 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	3270.2	0.0	3270.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	10434.7	0.0	10434.7
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	13704.9	0.0	13704.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.6	1.3
10°-20°	556.9	4.1
20°-30°	865.0	6.3
30°-40°	1174.4	8.6
40°-50°	1861.3	13.6
50°-60°	3283.3	24.0
60°-70°	3653.2	26.7
70°-80°	1852.8	13.5
80°-90°	280.5	2.0
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°	13704.9	100.0
0°-180°	13704.9	100.0

**Coefficient of Utilization**



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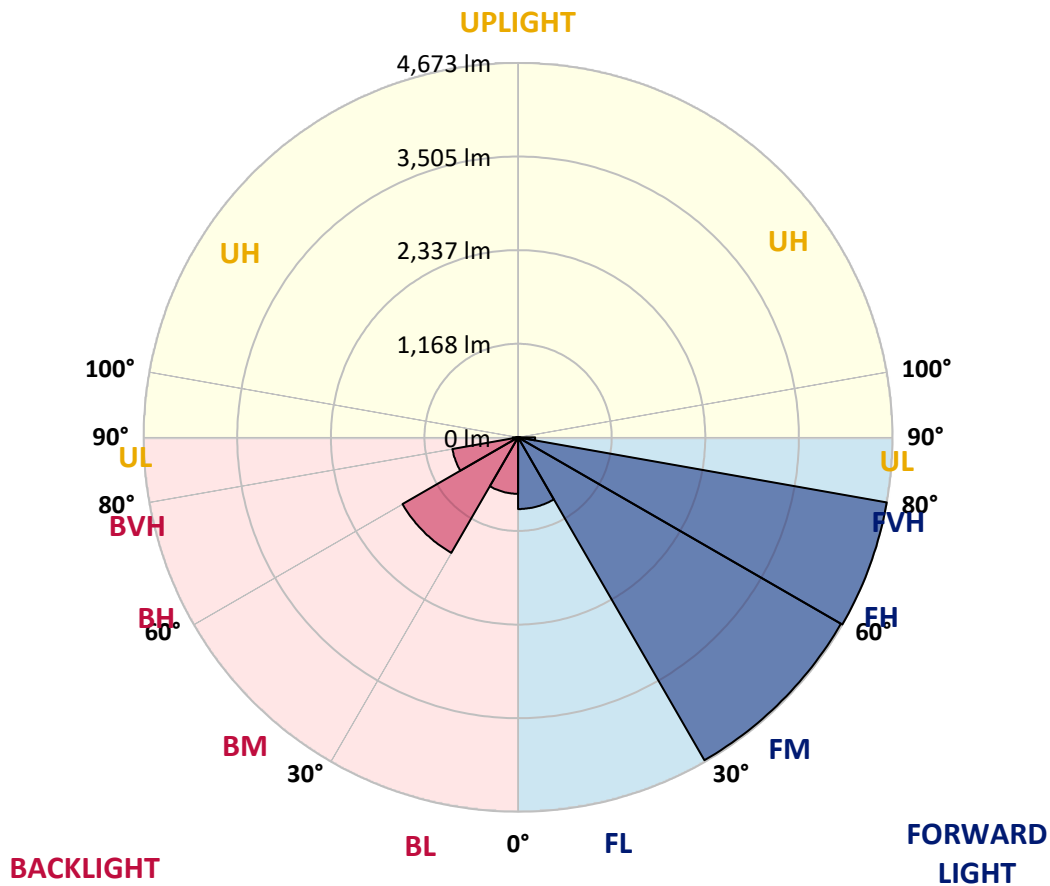
CATALOG NUMBER: GWS-SA4B-740-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.8	6.5			
FM (30°-60°)	4653.4	34.0			
FH (60°-80°)	4673.5	34.1			G2/5000
FVH (80°-90°)	212.9	1.6			G2/225
BL (0°-30°)	704.7	5.1	B2/1000		
BM (30°-60°)	1665.6	12.2	B2/2500		
BH (60°-80°)	832.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	67.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1954.8	1953.8	1973.5	2003.6	2031.6	2044.1	2064.8	2062.8	2046.2	2024.4	2017.1
5°	2108.4	2112.6	2146.8	2213.2	2286.9	2318.0	2331.5	2326.3	2296.2	2257.8	2190.4
7.5°	2247.5	2254.7	2307.6	2407.2	2498.6	2540.1	2573.3	2567.0	2523.5	2451.9	2352.2
10°	2349.1	2357.4	2420.7	2538.0	2639.7	2676.0	2718.5	2720.6	2682.2	2585.7	2484.0
12.5°	2450.8	2459.1	2518.3	2625.1	2691.5	2692.6	2717.5	2731.0	2733.0	2688.4	2586.7
15°	2556.7	2563.9	2617.9	2678.1	2674.9	2616.8	2616.8	2642.8	2699.8	2732.0	2661.5
17.5°	2646.9	2656.3	2697.8	2678.1	2585.7	2480.9	2468.5	2501.7	2601.3	2724.7	2717.5
20°	2721.6	2728.9	2751.7	2621.0	2452.9	2315.9	2292.1	2330.5	2465.3	2680.1	2760.0
22.5°	2793.2	2797.4	2784.9	2546.3	2309.7	2153.0	2124.0	2164.4	2309.7	2601.3	2796.3
25°	2878.3	2874.2	2815.0	2468.5	2179.0	2024.4	1994.3	2039.9	2191.4	2496.5	2835.8
27.5°	2976.9	2961.3	2841.0	2384.4	2078.3	1928.9	1908.2	1956.9	2098.0	2400.0	2866.9
30°	3060.9	3030.8	2845.1	2309.7	2026.4	1888.4	1876.0	1921.6	2052.4	2334.6	2906.3
32.5°	3154.3	3112.8	2869.0	2290.0	2055.5	1986.0	2002.6	2005.7	2064.8	2315.9	2965.5
35°	3288.2	3234.2	2934.3	2347.1	2354.3	2471.6	2531.8	2450.8	2252.6	2357.4	3077.5
37.5°	3490.5	3422.0	3067.2	2594.0	2971.7	3234.2	3379.5	3194.8	2823.3	2514.1	3246.7
40°	3736.4	3649.3	3237.3	3050.6	3548.6	3968.8	4227.2	3956.4	3410.6	2905.3	3484.3
42.5°	4079.9	3988.6	3567.3	3498.8	4083.0	4708.6	5045.9	4642.2	3928.4	3410.6	3865.1
45°	4678.6	4590.4	4172.2	3948.1	4708.6	5619.7	6092.8	5531.5	4454.4	3918.0	4576.9
47.5°	5784.6	5680.9	5070.8	4446.1	5422.5	6802.5	7464.5	6646.9	5001.3	4499.1	5772.2
50°	7112.8	7013.2	6198.6	5035.5	6211.1	8067.4	8987.7	7957.4	5631.1	5205.7	7201.0
52.5°	8710.7	8692.0	7808.0	5780.5	7031.8	9416.3	10678.0	9409.0	6321.1	6157.1	8819.6
55°	10150.9	10333.5	9852.1	6916.7	8092.3	11110.7	12416.0	10992.4	7257.0	7730.2	10715.3
57.5°	10927.0	11417.8	12157.6	9234.7	9634.2	13136.1	14560.7	12925.4	8865.3	10349.1	12473.0
60°	10414.4	10970.6	12311.2	10979.9	11163.6	14758.9	16330.9	14550.3	10444.5	12166.9	12373.4
62.5°	9561.5	10060.6	11252.8	9961.0	11400.2	15115.8	16372.4	14833.6	11072.3	11244.5	11177.1
65°	8549.9	9053.1	10315.9	8695.1	10647.9	14268.1	15164.6	14000.4	9944.4	10159.2	10184.1
67.5°	7206.2	7671.0	8956.6	7731.2	9705.7	13024.0	13310.4	12813.4	9157.9	9500.3	9142.3
70°	5384.1	5803.3	6938.5	6282.7	8181.5	11403.3	11171.9	11245.6	8274.9	8615.2	7636.8
72.5°	3679.3	3994.8	4968.0	4936.9	6265.1	9128.8	8806.1	9504.5	6911.5	7362.8	5822.0
75°	2573.3	2819.2	3591.1	3900.4	4735.6	6766.2	6271.3	7113.8	5397.6	6042.0	4248.0
77.5°	1579.2	1742.1	2268.2	2889.7	3046.4	4630.8	3895.2	5353.0	3790.4	4406.7	2833.7
80°	789.6	868.5	1101.9	1816.8	2020.2	2728.9	2151.0	3107.6	2565.0	2728.9	1567.8
82.5°	238.6	263.6	322.7	690.0	1046.9	1570.9	1271.1	1805.4	1400.8	1279.4	617.4
85°	63.3	71.6	89.2	204.4	367.3	563.4	429.6	874.7	671.3	472.1	232.4
87.5°	5.2	5.2	4.2	4.2	2.1	0.0	0.0	62.3	125.6	71.6	40.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1980.8	1976.6	1934.1	1903.0	1866.6	1831.4	1795.1	1762.9	1726.6	1690.3	1679.9
5°	2140.6	2111.5	2021.3	1945.5	1870.8	1805.4	1748.4	1689.2	1641.5	1594.8	1577.2
7.5°	2281.7	2230.8	2100.1	1984.9	1881.2	1800.2	1716.2	1630.1	1562.6	1496.2	1479.6
10°	2409.3	2341.9	2176.9	2031.6	1916.5	1824.1	1725.5	1610.4	1512.8	1431.9	1410.1
12.5°	2503.7	2430.1	2243.3	2076.2	1945.5	1841.7	1744.2	1642.5	1539.8	1435.0	1411.1
15°	2578.4	2501.7	2298.3	2110.5	1946.5	1812.7	1718.3	1683.0	1650.8	1548.1	1504.5
17.5°	2638.6	2557.7	2346.0	2131.2	1918.5	1724.5	1642.5	1694.4	1776.4	1712.0	1630.1
20°	2693.6	2611.6	2382.3	2145.8	1856.3	1603.1	1557.4	1667.4	1790.9	1788.8	1715.2
22.5°	2753.8	2673.9	2435.3	2154.1	1769.1	1479.6	1506.6	1628.0	1728.6	1758.7	1713.1
25°	2830.6	2760.0	2508.9	2172.7	1670.5	1394.5	1469.2	1577.2	1661.2	1668.5	1641.5
27.5°	2919.8	2866.9	2618.9	2216.3	1575.1	1351.0	1425.7	1505.6	1582.3	1585.5	1553.3
30°	3017.4	2982.1	2720.6	2252.6	1503.5	1337.5	1369.6	1434.0	1482.7	1491.0	1463.0
32.5°	3141.9	3110.7	2810.9	2228.8	1460.9	1334.4	1317.8	1351.0	1391.4	1391.4	1369.6
35°	3313.1	3269.5	2906.3	2137.5	1409.1	1321.9	1262.8	1272.1	1289.7	1292.9	1280.4
37.5°	3555.9	3484.3	3002.8	1956.9	1324.0	1277.3	1199.5	1188.1	1194.3	1202.6	1199.5
40°	3856.8	3739.5	3143.9	1740.1	1222.3	1191.2	1134.1	1112.3	1107.1	1123.7	1130.0
42.5°	4235.5	4056.0	3295.4	1537.7	1130.0	1092.6	1057.3	1038.6	1030.3	1058.4	1075.0
45°	4840.4	4544.7	3440.7	1337.5	1078.1	1008.6	984.7	971.2	975.3	1008.6	1029.3
47.5°	5885.3	5290.7	3578.7	1210.9	1073.9	948.4	919.3	922.4	933.8	969.1	994.0
50°	7207.2	6290.0	3671.0	1158.0	1086.4	912.1	873.7	890.3	907.9	942.1	971.2
52.5°	8553.0	7220.7	3561.1	1128.9	1085.3	913.1	831.1	880.9	889.2	923.5	954.6
55°	9478.5	7324.4	3076.5	1084.3	1068.7	954.6	797.9	876.8	882.0	913.1	941.1
57.5°	9831.3	6969.6	2346.0	1096.7	1018.9	986.8	783.4	847.7	885.1	912.1	941.1
60°	9404.8	6300.3	1425.7	1128.9	939.0	984.7	792.7	794.8	859.1	904.8	933.8
62.5°	8600.7	5441.2	1001.3	1037.6	880.9	929.7	814.5	732.5	813.5	868.5	894.4
65°	7679.3	4430.6	763.7	893.4	852.9	844.6	821.8	677.6	751.2	805.2	828.0
67.5°	6719.5	3443.8	620.5	666.1	770.9	763.7	751.2	628.8	677.6	715.9	741.9
70°	5510.7	2409.3	524.0	500.1	661.0	684.8	656.8	567.6	583.1	622.6	643.3
72.5°	4031.1	1501.4	430.6	413.0	531.3	598.7	584.2	500.1	507.4	544.7	561.3
75°	2899.1	859.1	345.5	340.3	405.7	512.6	483.5	430.6	438.9	466.9	478.3
77.5°	1842.8	478.3	266.7	273.9	290.5	382.9	413.0	368.3	368.3	385.0	394.3
80°	986.8	273.9	195.1	198.2	203.4	292.6	325.8	285.3	285.3	273.9	285.3
82.5°	402.6	157.7	133.9	124.5	135.9	200.3	228.3	181.6	189.9	171.2	175.4
85°	132.8	78.9	66.4	65.4	64.3	88.2	110.0	90.3	107.9	68.5	71.6
87.5°	17.6	14.5	8.3	6.2	7.3	3.1	6.2	7.3	7.3	5.2	5.2
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°	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1672.6	1664.3	1634.2	1641.5	1636.3	1628.0	1636.3	1620.7	1633.2	1637.3	1663.3
5°	1563.7	1544.0	1514.9	1500.4	1497.3	1489.0	1490.0	1482.7	1484.8	1502.5	1531.5
7.5°	1466.1	1447.5	1424.6	1414.3	1404.9	1395.6	1394.5	1393.5	1401.8	1417.4	1445.4
10°	1395.6	1385.2	1375.9	1380.0	1375.9	1371.7	1364.4	1364.4	1377.9	1406.0	1440.2
12.5°	1395.6	1393.5	1395.6	1408.0	1407.0	1408.0	1398.7	1403.9	1441.2	1489.0	1537.7
15°	1470.3	1453.7	1453.7	1459.9	1457.8	1457.8	1457.8	1479.6	1564.7	1638.4	1690.3
17.5°	1561.6	1512.8	1492.1	1489.0	1487.9	1487.9	1492.1	1538.8	1671.6	1749.4	1779.5
20°	1624.9	1532.5	1498.3	1484.8	1485.8	1487.9	1500.4	1564.7	1711.0	1750.4	1743.2
22.5°	1636.3	1517.0	1475.5	1455.8	1458.9	1460.9	1479.6	1548.1	1657.1	1663.3	1648.8
25°	1583.4	1473.4	1428.8	1413.2	1417.4	1416.3	1432.9	1482.7	1560.6	1558.5	1550.2
27.5°	1504.5	1403.9	1370.7	1360.3	1367.6	1359.3	1364.4	1402.8	1463.0	1460.9	1457.8
30°	1423.6	1336.4	1306.3	1301.2	1310.5	1298.0	1299.1	1331.2	1372.8	1370.7	1369.6
32.5°	1342.7	1269.0	1242.0	1242.0	1251.4	1237.9	1239.9	1268.0	1296.0	1287.7	1287.7
35°	1265.9	1214.0	1192.2	1188.1	1195.3	1186.0	1190.1	1216.1	1226.4	1215.0	1207.8
37.5°	1198.4	1175.6	1153.8	1139.3	1140.3	1141.4	1153.8	1173.5	1167.3	1150.7	1141.4
40°	1136.2	1136.2	1115.4	1088.4	1085.3	1092.6	1113.3	1135.1	1117.5	1098.8	1087.4
42.5°	1091.6	1100.9	1081.2	1054.2	1048.0	1060.4	1083.3	1098.8	1078.1	1057.3	1041.8
45°	1050.1	1072.9	1059.4	1029.3	1021.0	1035.5	1064.6	1070.8	1042.8	1023.1	1011.7
47.5°	1021.0	1052.1	1042.8	1013.7	1001.3	1022.0	1052.1	1051.1	1015.8	995.1	985.7
50°	1000.3	1039.7	1038.6	1013.7	1000.3	1026.2	1053.2	1039.7	1001.3	979.5	970.2
52.5°	983.6	1038.6	1045.9	1031.4	1022.0	1044.9	1061.5	1035.5	990.9	968.1	960.8
55°	976.4	1042.8	1048.0	1034.5	1026.2	1046.9	1061.5	1043.8	990.9	970.2	963.9
57.5°	978.5	1037.6	1038.6	1020.0	1005.4	1031.4	1054.2	1049.0	1002.3	978.5	971.2
60°	966.0	1009.6	1011.7	982.6	966.0	997.1	1037.6	1034.5	997.1	972.2	958.7
62.5°	924.5	962.9	963.9	937.0	913.1	957.7	1002.3	1001.3	967.0	942.1	926.6
65°	855.0	895.5	905.8	879.9	861.2	908.9	955.6	953.6	919.3	896.5	880.9
67.5°	768.9	812.4	832.2	814.5	807.3	850.8	894.4	893.4	865.4	843.6	830.1
70°	664.1	700.4	733.6	733.6	728.4	778.2	824.9	820.7	794.8	778.2	767.8
72.5°	576.9	604.9	615.3	625.7	641.2	693.1	732.5	735.7	717.0	708.7	717.0
75°	490.8	508.4	517.8	509.5	536.4	590.4	642.3	647.5	627.8	614.3	617.4
77.5°	403.6	423.3	432.7	414.0	411.9	480.4	543.7	555.1	538.5	517.8	524.0
80°	291.6	317.5	333.1	320.6	316.5	346.6	433.7	446.2	430.6	414.0	423.3
82.5°	178.5	193.0	197.1	209.6	235.5	248.0	279.1	320.6	309.2	294.7	320.6
85°	70.6	84.0	93.4	105.8	123.5	146.3	172.2	205.4	186.8	180.5	212.7
87.5°	4.2	1.0	0.0	2.1	17.6	34.2	73.7	101.7	85.1	91.3	110.0
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°	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1684.0	1711.0	1747.3	1777.4	1815.8	1852.1	1889.5	1926.8	1946.5	1954.8
5°	1564.7	1614.5	1672.6	1736.9	1811.7	1890.5	1970.4	2052.4	2104.3	2108.4
7.5°	1493.1	1564.7	1644.6	1725.5	1817.9	1926.8	2053.4	2180.0	2232.9	2247.5
10°	1515.9	1595.8	1659.1	1734.9	1836.6	1972.5	2121.9	2270.3	2331.5	2349.1
12.5°	1607.2	1622.8	1642.5	1712.0	1836.6	2011.9	2192.5	2368.9	2434.2	2450.8
15°	1683.0	1608.3	1573.0	1646.7	1811.7	2046.2	2267.2	2462.2	2541.1	2556.7
17.5°	1689.2	1560.6	1483.8	1550.2	1768.1	2070.0	2338.8	2566.0	2632.4	2646.9
20°	1625.9	1509.7	1410.1	1450.6	1708.9	2080.4	2390.6	2641.7	2707.1	2721.6
22.5°	1554.3	1468.2	1360.3	1358.2	1637.3	2091.8	2452.9	2713.3	2783.9	2793.2
25°	1486.9	1411.1	1319.8	1290.8	1554.3	2113.6	2536.9	2821.2	2875.2	2878.3
27.5°	1408.0	1349.9	1287.7	1259.7	1481.7	2155.1	2661.5	2949.9	2982.1	2976.9
30°	1336.4	1292.9	1264.8	1256.5	1436.0	2186.2	2779.7	3076.5	3078.6	3060.9
32.5°	1260.7	1244.1	1244.1	1271.1	1398.7	2179.0	2876.2	3200.0	3180.3	3154.3
35°	1193.2	1196.4	1218.1	1281.4	1336.4	2106.3	2968.6	3354.6	3325.5	3288.2
37.5°	1128.9	1152.8	1183.9	1245.1	1254.5	1998.4	3076.5	3573.5	3537.2	3490.5
40°	1073.9	1110.2	1146.6	1176.6	1167.3	1844.9	3226.9	3830.8	3790.4	3736.4
42.5°	1030.3	1065.6	1106.1	1109.2	1112.3	1685.1	3386.7	4146.3	4139.0	4079.9
45°	1002.3	1025.2	1063.5	1058.4	1109.2	1508.7	3534.1	4627.7	4723.2	4678.6
47.5°	983.6	1001.3	1005.4	1027.2	1136.2	1351.0	3724.0	5569.9	5835.5	5784.6
50°	973.3	990.9	944.2	1029.3	1140.3	1249.3	3986.5	6752.7	7180.2	7112.8
52.5°	972.2	968.1	897.5	1051.1	1117.5	1187.0	4123.4	7616.0	8564.4	8710.7
55°	974.3	922.4	873.7	1057.3	1071.8	1164.2	3664.8	8031.1	9841.7	10150.9
57.5°	955.6	872.6	887.2	1032.4	985.7	1225.4	2709.2	7882.7	10352.2	10927.0
60°	920.4	824.9	912.1	965.0	897.5	1120.6	1865.6	7220.7	9823.0	10414.4
62.5°	869.5	791.7	908.9	877.8	865.4	917.2	1282.5	6294.1	8983.6	9561.5
65°	812.4	764.7	860.2	793.8	801.0	705.6	906.9	5248.2	7981.3	8549.9
67.5°	751.2	748.1	788.6	706.6	676.5	559.3	661.0	4206.4	6693.6	7206.2
70°	681.7	704.5	717.0	627.8	548.9	438.9	490.8	2941.6	4938.0	5384.1
72.5°	612.2	614.3	631.9	545.8	410.9	351.7	368.3	1781.6	3354.6	3679.3
75°	541.6	521.9	538.5	444.1	306.1	288.5	284.3	1100.9	2317.0	2573.3
77.5°	465.9	444.1	422.3	334.1	245.9	223.1	217.9	617.4	1421.5	1579.2
80°	378.7	349.7	315.4	244.9	179.5	159.8	158.8	300.9	708.7	789.6
82.5°	294.7	239.7	230.3	152.5	111.0	97.5	103.8	115.2	213.7	238.6
85°	206.5	174.3	122.4	61.2	49.8	40.5	39.4	34.2	57.1	63.3
87.5°	115.2	75.7	39.4	7.3	8.3	9.3	7.3	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)