

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: P636836

Luminaire Tested: GWS-SA4B-750-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636836  
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-750-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

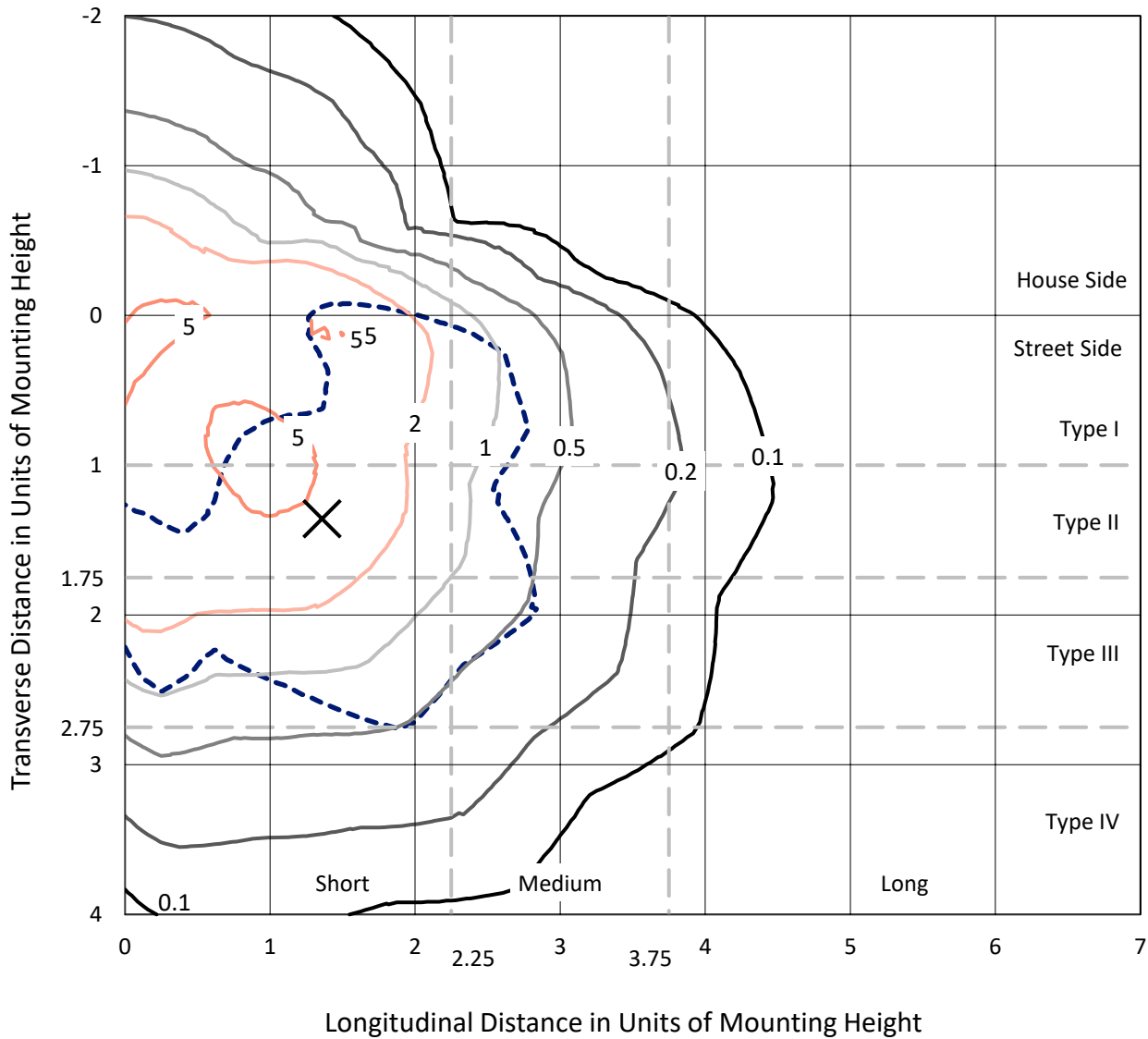
Lumens per Lamp: N/A  
Luminaire Lumens: 14019 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

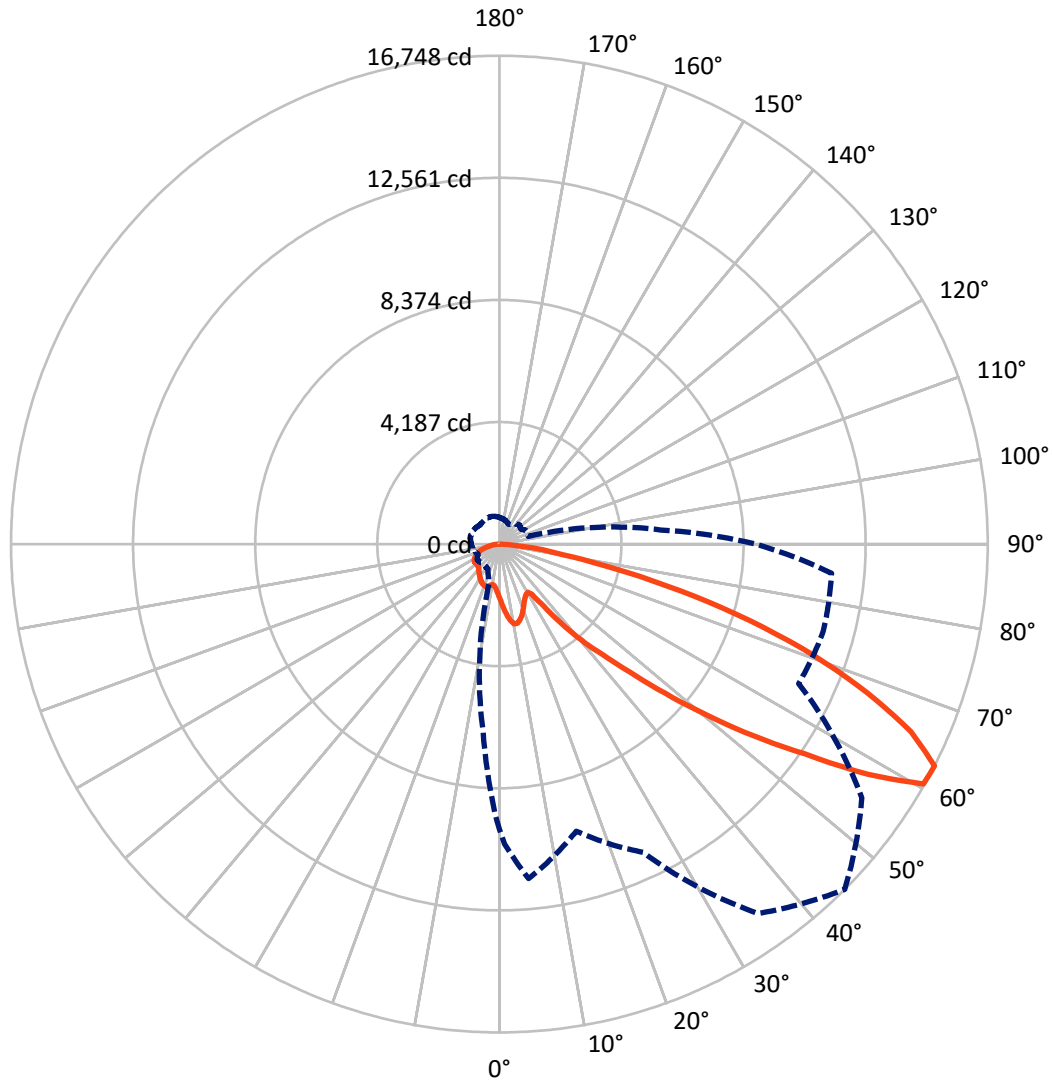
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	3345.2	0.0	3345.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	10673.8	0.0	10673.8
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	14019.0	0.0	14019.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.7	1.3
10°-20°	569.6	4.1
20°-30°	884.8	6.3
30°-40°	1201.3	8.6
40°-50°	1903.9	13.6
50°-60°	3358.5	24.0
60°-70°	3736.9	26.7
70°-80°	1895.2	13.5
80°-90°	287.0	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°	14019.0	100.0
0°-180°	14019.0	100.0

**Coefficient of Utilization**



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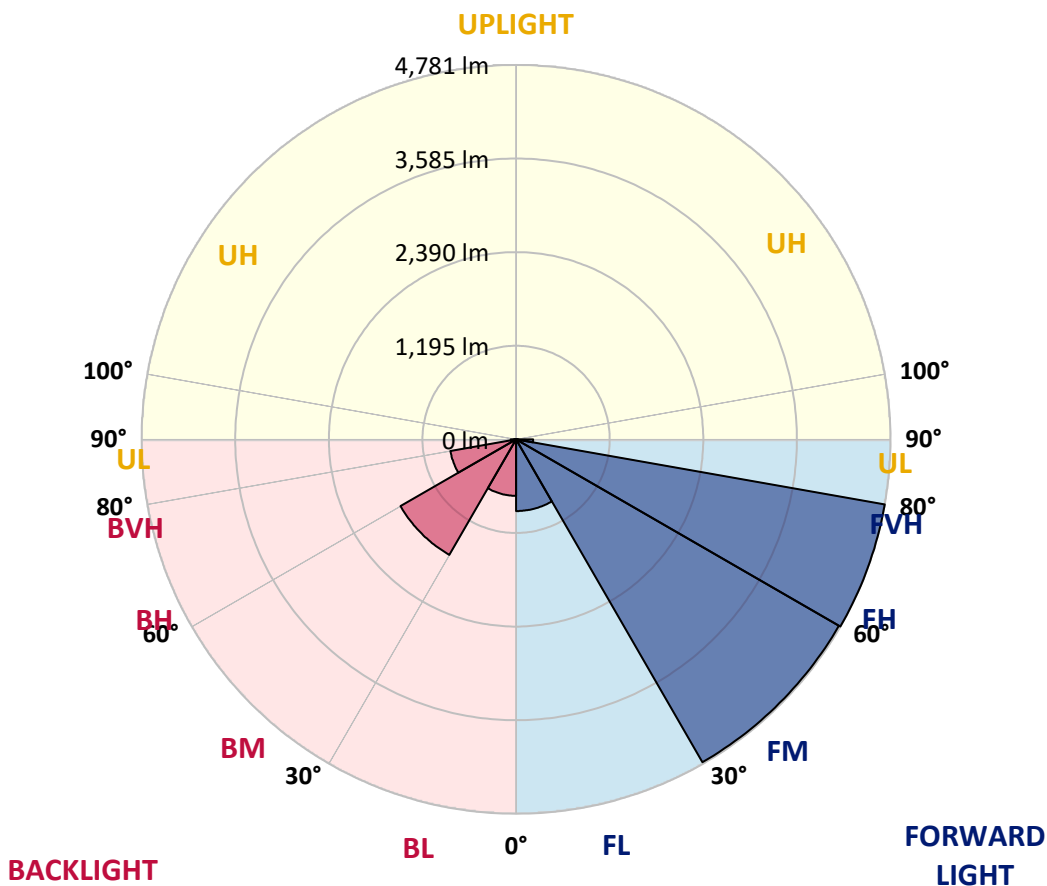
CATALOG NUMBER: GWS-SA4B-750-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.3	6.5			
FM (30°-60°)	4760.1	34.0			
FH (60°-80°)	4780.6	34.1			G2/5000
FVH (80°-90°)	217.8	1.6			G2/225
BL (0°-30°)	720.8	5.1	B2/1000		
BM (30°-60°)	1703.7	12.2	B2/2500		
BH (60°-80°)	851.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	69.2	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°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	1999.6	1998.6	2018.8	2049.5	2078.2	2090.9	2112.2	2110.0	2093.1	2070.8	2063.3
5°	2156.7	2161.0	2196.0	2263.9	2339.3	2371.1	2384.9	2379.6	2348.8	2309.6	2240.6
7.5°	2299.0	2306.4	2360.5	2462.4	2555.8	2598.3	2632.2	2625.9	2581.3	2508.1	2406.2
10°	2403.0	2411.5	2476.2	2596.1	2700.2	2737.3	2780.8	2783.0	2743.7	2645.0	2541.0
12.5°	2507.0	2515.5	2576.0	2685.3	2753.2	2754.3	2779.8	2793.6	2795.7	2750.0	2646.0
15°	2615.3	2622.7	2677.9	2739.4	2736.3	2676.8	2676.8	2703.3	2761.7	2794.6	2722.5
17.5°	2707.6	2717.1	2759.6	2739.4	2645.0	2537.8	2525.0	2559.0	2660.9	2787.2	2779.8
20°	2784.0	2791.4	2814.8	2681.1	2509.1	2369.0	2344.6	2383.9	2521.9	2741.6	2823.3
22.5°	2857.2	2861.5	2848.8	2604.6	2362.6	2202.4	2172.7	2214.0	2362.6	2660.9	2860.4
25°	2944.3	2940.0	2879.5	2525.0	2228.9	2070.8	2040.0	2086.7	2241.6	2553.7	2900.8
27.5°	3045.1	3029.2	2906.1	2439.1	2126.0	1973.1	1951.9	2001.8	2146.1	2455.0	2932.6
30°	3131.1	3100.3	2910.3	2362.6	2072.9	1931.7	1919.0	1965.7	2099.4	2388.1	2972.9
32.5°	3226.6	3184.2	2934.7	2342.5	2102.6	2031.5	2048.5	2051.7	2112.2	2369.0	3033.4
35°	3363.5	3308.3	3001.6	2400.9	2408.3	2528.2	2589.8	2507.0	2304.3	2411.5	3148.1
37.5°	3570.5	3500.4	3137.5	2653.5	3039.8	3308.3	3456.9	3268.0	2888.0	2571.7	3321.1
40°	3822.0	3732.9	3311.5	3120.5	3629.9	4059.8	4324.1	4047.1	3488.8	2971.9	3564.1
42.5°	4173.4	4080.0	3649.0	3579.0	4176.5	4816.6	5161.5	4748.6	4018.4	3488.8	3953.7
45°	4785.8	4695.6	4267.8	4038.6	4816.6	5748.5	6232.5	5658.2	4556.5	4007.8	4681.8
47.5°	5917.2	5811.1	5187.0	4548.0	5546.8	6958.4	7635.6	6799.2	5115.9	4602.2	5904.5
50°	7275.8	7173.9	6340.7	5150.9	6353.4	8252.3	9193.7	8139.8	5760.1	5325.0	7366.0
52.5°	8910.3	8891.2	7986.9	5913.0	7193.0	9632.1	10922.7	9624.6	6466.0	6298.3	9021.8
55°	10383.5	10570.3	10077.8	7075.2	8277.7	11365.3	12700.5	11244.3	7423.3	7907.3	10960.9
57.5°	11177.4	11679.5	12436.2	9446.3	9855.0	13437.1	14894.4	13221.7	9068.5	10586.3	12758.9
60°	10653.1	11222.0	12593.3	11231.6	11419.4	15097.1	16705.1	14883.8	10683.9	12445.8	12657.0
62.5°	9780.7	10291.2	11510.7	10189.3	11661.4	15462.3	16747.6	15173.6	11326.0	11502.2	11433.2
65°	8745.8	9260.6	10552.3	8894.4	10891.9	14595.1	15512.1	14321.3	10172.3	10392.0	10417.5
67.5°	7371.3	7846.8	9161.9	7908.4	9928.2	13322.5	13615.4	13107.0	9367.8	9718.0	9351.9
70°	5507.5	5936.3	7097.5	6426.7	8369.0	11664.6	11427.9	11503.3	8464.5	8812.7	7811.8
72.5°	3763.7	4086.3	5081.9	5050.1	6408.6	9338.1	9008.0	9722.3	7069.9	7531.6	5955.4
75°	2632.2	2883.8	3673.5	3989.7	4844.2	6921.3	6415.0	7276.9	5521.3	6180.4	4345.3
77.5°	1615.4	1782.1	2320.2	2956.0	3116.2	4737.0	3984.4	5475.7	3877.2	4507.7	2898.6
80°	807.7	888.4	1127.2	1858.5	2066.5	2791.4	2200.3	3178.8	2623.7	2791.4	1603.8
82.5°	244.1	269.6	330.1	705.8	1070.9	1606.9	1300.2	1846.8	1432.9	1308.7	631.5
85°	64.7	73.2	91.3	209.1	375.7	576.3	439.4	894.7	686.7	482.9	237.8
87.5°	5.3	5.3	4.2	4.2	2.1	0.0	0.0	63.7	128.4	73.2	41.4
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°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	2026.2	2021.9	1978.4	1946.6	1909.4	1873.3	1836.2	1803.3	1766.1	1729.0	1718.4
5°	2189.6	2159.9	2067.6	1990.1	1913.7	1846.8	1788.4	1727.9	1679.1	1631.3	1613.3
7.5°	2334.0	2282.0	2148.2	2030.4	1924.3	1841.5	1755.5	1667.4	1598.4	1530.5	1513.5
10°	2464.5	2395.5	2226.8	2078.2	1960.4	1865.9	1765.1	1647.3	1547.5	1464.7	1442.4
12.5°	2561.1	2485.8	2294.7	2123.8	1990.1	1884.0	1784.2	1680.2	1575.1	1467.9	1443.5
15°	2637.5	2559.0	2351.0	2158.9	1991.2	1854.2	1757.7	1721.6	1688.7	1583.6	1539.0
17.5°	2699.1	2616.3	2399.8	2180.1	1962.5	1764.0	1680.2	1733.2	1817.1	1751.3	1667.4
20°	2755.4	2671.5	2436.9	2194.9	1898.8	1639.8	1593.1	1705.6	1832.0	1829.8	1754.5
22.5°	2816.9	2735.2	2491.1	2203.4	1809.7	1513.5	1541.1	1665.3	1768.3	1799.0	1752.3
25°	2895.5	2823.3	2566.4	2222.5	1708.8	1426.5	1502.9	1613.3	1699.3	1706.7	1679.1
27.5°	2986.7	2932.6	2678.9	2267.1	1611.2	1381.9	1458.3	1540.1	1618.6	1621.8	1588.9
30°	3086.5	3050.4	2783.0	2304.3	1537.9	1368.1	1401.0	1466.8	1516.7	1525.2	1496.6
32.5°	3213.9	3182.0	2875.3	2279.9	1494.4	1364.9	1348.0	1381.9	1423.3	1423.3	1401.0
35°	3389.0	3344.4	2972.9	2186.5	1441.4	1352.2	1291.7	1301.3	1319.3	1322.5	1309.7
37.5°	3637.4	3564.1	3071.6	2001.8	1354.3	1306.6	1227.0	1215.3	1221.7	1230.1	1227.0
40°	3945.2	3825.2	3216.0	1779.9	1250.3	1218.5	1160.1	1137.8	1132.5	1149.5	1155.8
42.5°	4332.6	4149.0	3371.0	1573.0	1155.8	1117.6	1081.6	1062.4	1054.0	1082.6	1099.6
45°	4951.4	4648.9	3519.6	1368.1	1102.8	1031.7	1007.3	993.5	997.7	1031.7	1052.9
47.5°	6020.2	5412.0	3660.7	1238.6	1098.5	970.1	940.4	943.6	955.2	991.3	1016.8
50°	7372.4	6434.1	3755.2	1184.5	1111.3	933.0	893.7	910.7	928.7	963.7	993.5
52.5°	8749.0	7386.2	3642.7	1154.8	1110.2	934.0	850.2	901.1	909.6	944.6	976.5
55°	9695.8	7492.3	3147.0	1109.1	1093.2	976.5	816.2	896.9	902.2	934.0	962.7
57.5°	10056.6	7129.3	2399.8	1121.9	1042.3	1009.4	801.3	867.2	905.4	933.0	962.7
60°	9620.4	6444.7	1458.3	1154.8	960.6	1007.3	810.9	813.0	878.8	925.5	955.2
62.5°	8797.8	5565.9	1024.2	1061.4	901.1	951.0	833.2	749.3	832.1	888.4	914.9
65°	7855.3	4532.1	781.2	913.9	872.5	864.0	840.6	693.1	768.4	823.6	847.0
67.5°	6873.5	3522.7	634.7	681.4	788.6	781.2	768.4	643.2	693.1	732.4	758.9
70°	5637.0	2464.5	536.0	511.6	676.1	700.5	671.9	580.6	596.5	636.8	658.1
72.5°	4123.5	1535.8	440.5	422.4	543.4	612.4	597.6	511.6	519.0	557.2	574.2
75°	2965.5	878.8	353.4	348.1	415.0	524.3	494.6	440.5	449.0	477.6	489.3
77.5°	1885.0	489.3	272.8	280.2	297.2	391.7	422.4	376.8	376.8	393.8	403.3
80°	1009.4	280.2	199.5	202.7	208.0	299.3	333.3	291.9	291.9	280.2	291.9
82.5°	411.8	161.3	136.9	127.4	139.0	204.8	233.5	185.7	194.2	175.1	179.4
85°	135.9	80.7	67.9	66.9	65.8	90.2	112.5	92.3	110.4	70.1	73.2
87.5°	18.0	14.9	8.5	6.4	7.4	3.2	6.4	7.4	7.4	5.3	5.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	1711.0	1702.5	1671.7	1679.1	1673.8	1665.3	1673.8	1657.9	1670.6	1674.9	1701.4
5°	1599.5	1579.3	1549.6	1534.8	1531.6	1523.1	1524.1	1516.7	1518.8	1536.9	1566.6
7.5°	1499.7	1480.6	1457.3	1446.7	1437.1	1427.6	1426.5	1425.4	1433.9	1449.9	1478.5
10°	1427.6	1416.9	1407.4	1411.6	1407.4	1403.2	1395.7	1395.7	1409.5	1438.2	1473.2
12.5°	1427.6	1425.4	1427.6	1440.3	1439.2	1440.3	1430.7	1436.1	1474.3	1523.1	1573.0
15°	1504.0	1487.0	1487.0	1493.4	1491.2	1491.2	1491.2	1513.5	1600.6	1675.9	1729.0
17.5°	1597.4	1547.5	1526.3	1523.1	1522.0	1522.0	1526.3	1574.0	1709.9	1789.5	1820.3
20°	1662.1	1567.7	1532.6	1518.8	1519.9	1522.0	1534.8	1600.6	1750.2	1790.6	1783.1
22.5°	1673.8	1551.7	1509.3	1489.1	1492.3	1494.4	1513.5	1583.6	1695.0	1701.4	1686.5
25°	1619.7	1507.2	1461.5	1445.6	1449.9	1448.8	1465.8	1516.7	1596.3	1594.2	1585.7
27.5°	1539.0	1436.1	1402.1	1391.5	1398.9	1390.4	1395.7	1435.0	1496.6	1494.4	1491.2
30°	1456.2	1367.1	1336.3	1331.0	1340.5	1327.8	1328.9	1361.8	1404.2	1402.1	1401.0
32.5°	1373.4	1298.1	1270.5	1270.5	1280.0	1266.2	1268.4	1297.0	1325.7	1317.2	1317.2
35°	1294.9	1241.8	1219.5	1215.3	1222.7	1213.2	1217.4	1243.9	1254.6	1242.9	1235.5
37.5°	1225.9	1202.5	1180.3	1165.4	1166.5	1167.5	1180.3	1200.4	1194.1	1177.1	1167.5
40°	1162.2	1162.2	1141.0	1113.4	1110.2	1117.6	1138.9	1161.2	1143.1	1124.0	1112.3
42.5°	1116.6	1126.1	1106.0	1078.4	1072.0	1084.7	1108.1	1124.0	1102.8	1081.6	1065.6
45°	1074.1	1097.5	1083.7	1052.9	1044.4	1059.3	1089.0	1095.3	1066.7	1046.5	1034.9
47.5°	1044.4	1076.2	1066.7	1037.0	1024.2	1045.5	1076.2	1075.2	1039.1	1017.9	1008.3
50°	1023.2	1063.5	1062.4	1037.0	1023.2	1049.7	1077.3	1063.5	1024.2	1001.9	992.4
52.5°	1006.2	1062.4	1069.9	1055.0	1045.5	1068.8	1085.8	1059.3	1013.6	990.3	982.8
55°	998.8	1066.7	1072.0	1058.2	1049.7	1070.9	1085.8	1067.8	1013.6	992.4	986.0
57.5°	1000.9	1061.4	1062.4	1043.3	1028.5	1055.0	1078.4	1073.1	1025.3	1000.9	993.5
60°	988.1	1032.7	1034.9	1005.1	988.1	1020.0	1061.4	1058.2	1020.0	994.5	980.7
62.5°	945.7	985.0	986.0	958.4	934.0	979.7	1025.3	1024.2	989.2	963.7	947.8
65°	874.6	916.0	926.6	900.1	880.9	929.8	977.5	975.4	940.4	917.0	901.1
67.5°	786.5	831.1	851.2	833.2	825.8	870.3	914.9	913.9	885.2	862.9	849.1
70°	679.3	716.4	750.4	750.4	745.1	796.0	843.8	839.6	813.0	796.0	785.4
72.5°	590.1	618.8	629.4	640.0	655.9	709.0	749.3	752.5	733.4	724.9	733.4
75°	502.0	520.1	529.6	521.1	548.7	603.9	657.0	662.3	642.1	628.3	631.5
77.5°	412.9	433.0	442.6	423.5	421.4	491.4	556.2	567.8	550.9	529.6	536.0
80°	298.2	324.8	340.7	328.0	323.7	354.5	443.7	456.4	440.5	423.5	433.0
82.5°	182.6	197.4	201.7	214.4	240.9	253.7	285.5	328.0	316.3	301.4	328.0
85°	72.2	86.0	95.5	108.3	126.3	149.7	176.2	210.2	191.0	184.7	217.6
87.5°	4.2	1.1	0.0	2.1	18.0	35.0	75.4	104.0	87.0	93.4	112.5
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°	359°	360°
0°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	1722.6	1750.2	1787.4	1818.2	1857.4	1894.6	1932.8	1971.0	1991.2	1999.6
5°	1600.6	1651.5	1711.0	1776.8	1853.2	1933.8	2015.6	2099.4	2152.5	2156.7
7.5°	1527.3	1600.6	1682.3	1765.1	1859.5	1971.0	2100.5	2230.0	2284.1	2299.0
10°	1550.7	1632.4	1697.2	1774.6	1878.7	2017.7	2170.5	2322.3	2384.9	2403.0
12.5°	1644.1	1660.0	1680.2	1751.3	1878.7	2058.0	2242.7	2423.1	2490.0	2507.0
15°	1721.6	1645.1	1609.1	1684.4	1853.2	2093.1	2319.1	2518.7	2599.3	2615.3
17.5°	1727.9	1596.3	1517.8	1585.7	1808.6	2117.5	2392.4	2624.8	2692.7	2707.6
20°	1663.2	1544.3	1442.4	1483.8	1748.1	2128.1	2445.4	2702.3	2769.2	2784.0
22.5°	1590.0	1501.9	1391.5	1389.4	1674.9	2139.8	2509.1	2775.5	2847.7	2857.2
25°	1521.0	1443.5	1350.1	1320.4	1590.0	2162.0	2595.1	2885.9	2941.1	2944.3
27.5°	1440.3	1380.9	1317.2	1288.5	1515.7	2204.5	2722.5	3017.5	3050.4	3045.1
30°	1367.1	1322.5	1293.8	1285.3	1469.0	2236.3	2843.4	3147.0	3149.1	3131.1
32.5°	1289.6	1272.6	1272.6	1300.2	1430.7	2228.9	2942.2	3273.3	3253.1	3226.6
35°	1220.6	1223.8	1246.1	1310.8	1367.1	2154.6	3036.6	3431.5	3401.7	3363.5
37.5°	1154.8	1179.2	1211.0	1273.7	1283.2	2044.2	3147.0	3655.4	3618.3	3570.5
40°	1098.5	1135.7	1172.8	1203.6	1194.1	1887.1	3300.9	3918.6	3877.2	3822.0
42.5°	1054.0	1090.0	1131.4	1134.6	1137.8	1723.7	3464.4	4241.3	4233.9	4173.4
45°	1025.3	1048.6	1087.9	1082.6	1134.6	1543.3	3615.1	4733.8	4831.4	4785.8
47.5°	1006.2	1024.2	1028.5	1050.8	1162.2	1381.9	3809.3	5697.5	5969.2	5917.2
50°	995.6	1013.6	965.9	1052.9	1166.5	1277.9	4077.8	6907.5	7344.8	7275.8
52.5°	994.5	990.3	918.1	1075.2	1143.1	1214.2	4217.9	7790.6	8760.7	8910.3
55°	996.6	943.6	893.7	1081.6	1096.4	1190.9	3748.8	8215.1	10067.2	10383.5
57.5°	977.5	892.6	907.5	1056.1	1008.3	1253.5	2771.3	8063.3	10589.4	11177.4
60°	941.4	843.8	933.0	987.1	918.1	1146.3	1908.4	7386.2	10048.1	10653.1
62.5°	889.4	809.8	929.8	897.9	885.2	938.3	1311.9	6438.4	9189.5	9780.7
65°	831.1	782.2	879.9	812.0	819.4	721.7	927.7	5368.5	8164.2	8745.8
67.5°	768.4	765.3	806.7	722.8	692.0	572.1	676.1	4302.9	6847.0	7371.3
70°	697.3	720.7	733.4	642.1	561.5	449.0	502.0	3009.0	5051.1	5507.5
72.5°	626.2	628.3	646.4	558.3	420.3	359.8	376.8	1822.4	3431.5	3763.7
75°	554.0	533.9	550.9	454.3	313.1	295.1	290.8	1126.1	2370.1	2632.2
77.5°	476.6	454.3	432.0	341.8	251.5	228.2	222.9	631.5	1454.1	1615.4
80°	387.4	357.7	322.7	250.5	183.6	163.5	162.4	307.8	724.9	807.7
82.5°	301.4	245.2	235.6	156.0	113.6	99.8	106.1	117.8	218.6	244.1
85°	211.2	178.3	125.2	62.6	50.9	41.4	40.3	35.0	58.4	64.7
87.5°	117.8	77.5	40.3	7.4	8.5	9.6	7.4	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)