

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: P633261

Luminaire Tested: GWS-SA2E-735-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633261  
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-SA2E-735-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

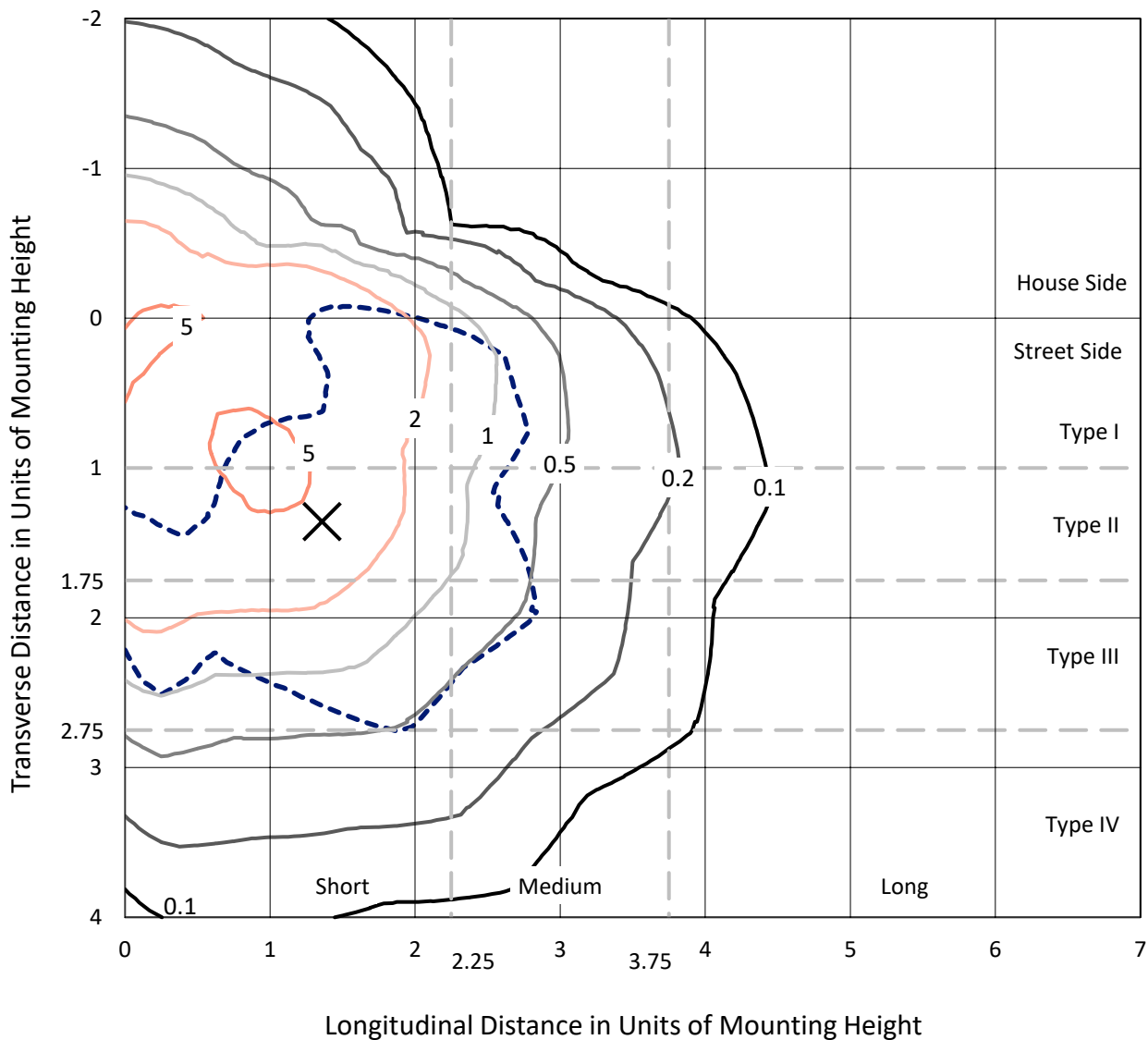
Lumens per Lamp: N/A  
Luminaire Lumens: 13626.1 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

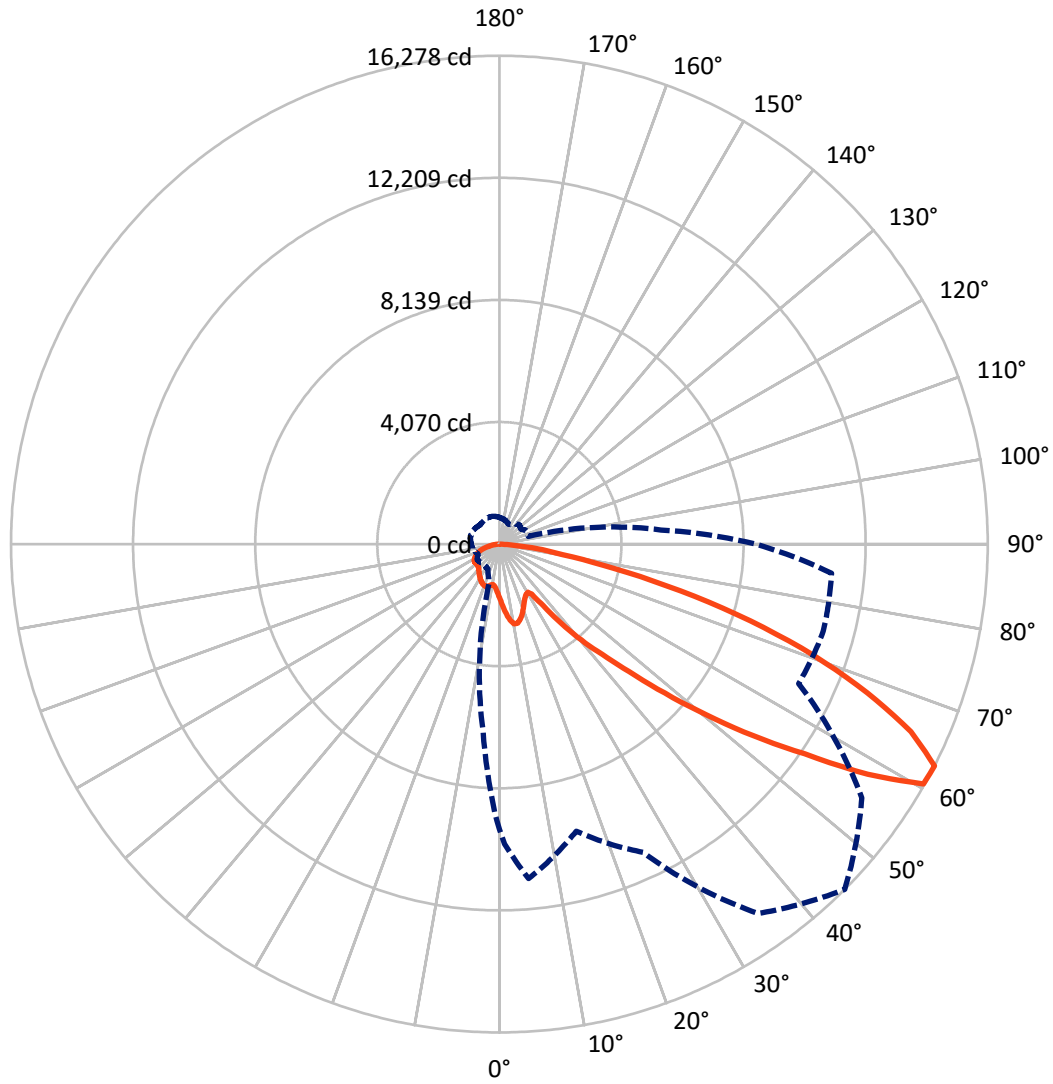
✕ Max cd  
 - - - 1/2 Max cd



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	3251.4	0.0	3251.4
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	10374.7	0.0	10374.7
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	13626.1	0.0	13626.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	1.3
10°-20°	553.7	4.1
20°-30°	860.0	6.3
30°-40°	1167.6	8.6
40°-50°	1850.6	13.6
50°-60°	3264.4	24.0
60°-70°	3632.2	26.7
70°-80°	1842.1	13.5
80°-90°	278.9	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°	13626.1	100.0
0°-180°	13626.1	100.0

**Coefficient of Utilization**



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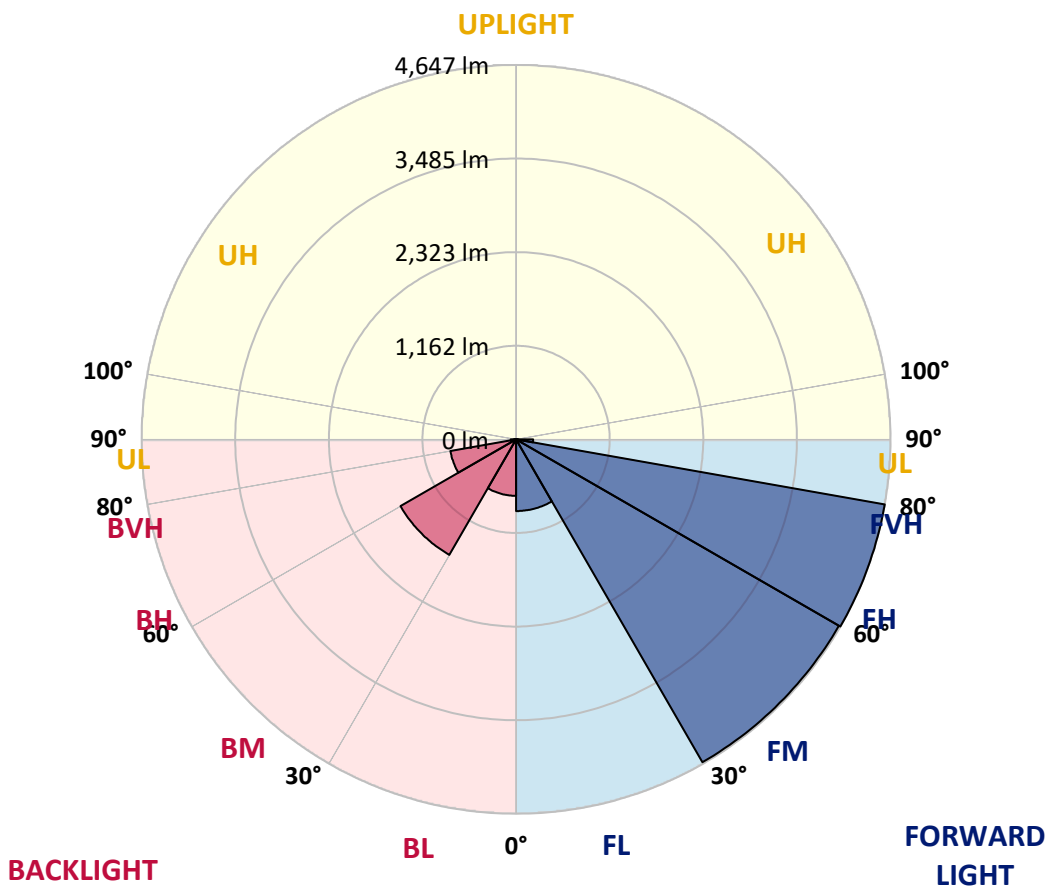
CATALOG NUMBER: GWS-SA2E-735-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.7	6.5			
FM (30°-60°)	4626.7	34.0			
FH (60°-80°)	4646.6	34.1			G2/5000
FVH (80°-90°)	211.7	1.6			G2/225
BL (0°-30°)	700.6	5.1	B2/1000		
BM (30°-60°)	1656.0	12.2	B2/2500		
BH (60°-80°)	827.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	67.2	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°	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1943.6	1942.6	1962.2	1992.1	2019.9	2032.3	2053.0	2050.9	2034.4	2012.7	2005.5
5°	2096.3	2100.4	2134.5	2200.5	2273.7	2304.7	2318.1	2312.9	2283.0	2244.8	2177.8
7.5°	2234.5	2241.7	2294.4	2393.4	2484.2	2525.5	2558.5	2552.3	2508.9	2437.8	2338.7
10°	2335.6	2343.9	2406.8	2523.4	2624.5	2660.6	2702.9	2705.0	2666.8	2570.8	2469.7
12.5°	2436.7	2445.0	2503.8	2610.0	2676.1	2677.1	2701.9	2715.3	2717.3	2673.0	2571.9
15°	2542.0	2549.2	2602.8	2662.7	2659.6	2601.8	2601.8	2627.6	2684.3	2716.3	2646.2
17.5°	2631.7	2641.0	2682.3	2662.7	2570.8	2466.6	2454.3	2487.3	2586.3	2709.1	2701.9
20°	2706.0	2713.2	2735.9	2605.9	2438.8	2302.6	2278.9	2317.1	2451.2	2664.7	2744.2
22.5°	2777.2	2781.3	2768.9	2531.6	2296.4	2140.6	2111.8	2152.0	2296.4	2586.3	2780.3
25°	2861.8	2857.6	2798.8	2454.3	2166.4	2012.7	1982.8	2028.2	2178.8	2482.1	2819.5
27.5°	2959.8	2944.3	2824.6	2370.7	2066.4	1917.8	1897.2	1945.7	2086.0	2386.2	2850.4
30°	3043.3	3013.4	2828.8	2296.4	2014.8	1877.6	1865.2	1910.6	2040.6	2321.2	2889.6
32.5°	3136.2	3094.9	2852.5	2276.8	2043.7	1974.6	1991.1	1994.2	2053.0	2302.6	2948.4
35°	3269.3	3215.6	2917.5	2333.6	2340.8	2457.4	2517.2	2436.7	2239.7	2343.9	3059.8
37.5°	3470.4	3402.3	3049.5	2579.1	2954.6	3215.6	3360.0	3176.4	2807.1	2499.7	3228.0
40°	3714.9	3628.3	3218.7	3033.0	3528.2	3946.0	4202.9	3933.6	3391.0	2888.6	3464.2
42.5°	4056.4	3965.6	3546.8	3478.7	4059.5	4681.6	5016.9	4615.5	3905.8	3391.0	3842.9
45°	4651.7	4564.0	4148.2	3925.4	4681.6	5587.4	6057.8	5499.7	4428.8	3895.5	4550.6
47.5°	5751.4	5648.2	5041.6	4420.6	5391.3	6763.4	7421.6	6608.7	4972.5	4473.2	5739.0
50°	7071.9	6972.8	6163.0	5006.5	6175.4	8021.0	8936.0	7911.6	5598.7	5175.7	7159.6
52.5°	8660.6	8642.0	7763.1	5747.3	6991.4	9362.1	10616.6	9354.9	6284.7	6121.7	8768.9
55°	10092.5	10274.1	9795.4	6876.9	8045.7	11046.8	12344.6	10929.2	7215.3	7685.7	10653.7
57.5°	10864.2	11352.1	12087.7	9181.6	9578.8	13060.5	14477.0	12851.1	8814.3	10289.6	12401.3
60°	10354.6	10907.5	12240.4	10916.8	11099.4	14674.0	16237.0	14466.7	10384.5	12097.0	12302.3
62.5°	9506.5	10002.8	11188.1	9903.7	11334.6	15028.9	16278.2	14748.3	11008.6	11179.9	11112.8
65°	8500.7	9001.0	10256.5	8645.1	10586.7	14186.1	15077.4	13919.9	9887.2	10100.8	10125.5
67.5°	7164.7	7626.9	8905.1	7686.7	9649.9	12949.1	13233.9	12739.7	9105.2	9445.7	9089.8
70°	5353.2	5770.0	6898.6	6246.6	8134.5	11337.7	11107.6	11180.9	8227.3	8565.7	7592.9
72.5°	3658.2	3971.8	4939.5	4908.5	6229.0	9076.4	8755.5	9449.8	6871.7	7320.5	5788.5
75°	2558.5	2803.0	3570.5	3877.9	4708.4	6727.3	6235.2	7072.9	5366.6	6007.2	4223.5
77.5°	1570.2	1732.1	2255.2	2873.1	3028.9	4604.2	3872.8	5322.2	3768.6	4381.4	2817.4
80°	785.1	863.5	1095.6	1806.4	2008.6	2713.2	2138.6	3089.8	2550.2	2713.2	1558.8
82.5°	237.3	262.0	320.8	686.0	1040.9	1561.9	1263.8	1795.1	1392.7	1272.0	613.8
85°	62.9	71.2	88.7	203.2	365.2	560.2	427.1	869.7	667.5	469.4	231.1
87.5°	5.2	5.2	4.1	4.1	2.1	0.0	0.0	61.9	124.8	71.2	40.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1969.4	1965.3	1923.0	1892.0	1855.9	1820.8	1784.7	1752.8	1716.6	1680.5	1670.2
5°	2128.3	2099.4	2009.6	1934.3	1860.0	1795.1	1738.3	1679.5	1632.1	1585.6	1568.1
7.5°	2268.6	2218.0	2088.0	1973.5	1870.4	1789.9	1706.3	1620.7	1553.6	1487.6	1471.1
10°	2395.5	2328.4	2164.4	2019.9	1905.4	1813.6	1715.6	1601.1	1504.1	1423.7	1402.0
12.5°	2489.3	2416.1	2230.4	2064.3	1934.3	1831.2	1734.2	1633.1	1531.0	1426.8	1403.0
15°	2563.6	2487.3	2285.1	2098.4	1935.4	1802.3	1708.4	1673.3	1641.3	1539.2	1495.9
17.5°	2623.5	2543.0	2332.5	2119.0	1907.5	1714.6	1633.1	1684.7	1766.2	1702.2	1620.7
20°	2678.1	2596.6	2368.6	2133.4	1845.6	1593.9	1548.5	1657.8	1780.6	1778.5	1705.3
22.5°	2738.0	2658.5	2421.3	2141.7	1758.9	1471.1	1497.9	1618.6	1718.7	1748.6	1703.2
25°	2814.3	2744.2	2494.5	2160.3	1660.9	1386.5	1460.8	1568.1	1651.7	1658.9	1632.1
27.5°	2903.0	2850.4	2603.9	2203.6	1566.0	1343.2	1417.5	1496.9	1573.2	1576.3	1544.4
30°	3000.0	2964.9	2705.0	2239.7	1494.8	1329.8	1361.8	1425.7	1474.2	1482.5	1454.6
32.5°	3123.8	3092.9	2794.7	2216.0	1452.5	1326.7	1310.2	1343.2	1383.4	1383.4	1361.8
35°	3294.0	3250.7	2889.6	2125.2	1401.0	1314.3	1255.5	1264.8	1282.3	1285.4	1273.0
37.5°	3535.4	3464.2	2985.6	1945.7	1316.4	1269.9	1192.6	1181.2	1187.4	1195.7	1192.6
40°	3834.6	3718.0	3125.9	1730.1	1215.3	1184.3	1127.6	1105.9	1100.8	1117.3	1123.5
42.5°	4211.1	4032.7	3276.5	1528.9	1123.5	1086.3	1051.2	1032.7	1024.4	1052.3	1068.8
45°	4812.6	4518.6	3420.9	1329.8	1071.9	1002.8	979.0	965.6	969.7	1002.8	1023.4
47.5°	5851.5	5260.3	3558.1	1203.9	1067.7	942.9	914.0	917.1	928.5	963.6	988.3
50°	7165.8	6253.8	3649.9	1151.3	1080.1	906.8	868.6	885.1	902.7	936.7	965.6
52.5°	8503.8	7179.2	3540.6	1122.4	1079.1	907.8	826.3	875.9	884.1	918.2	949.1
55°	9424.0	7282.3	3058.8	1078.1	1062.6	949.1	793.3	871.7	876.9	907.8	935.7
57.5°	9774.8	6929.5	2332.5	1090.4	1013.1	981.1	778.9	842.8	880.0	906.8	935.7
60°	9350.8	6264.1	1417.5	1122.4	933.6	979.0	788.2	790.2	854.2	899.6	928.5
62.5°	8551.2	5409.9	995.5	1031.6	875.9	924.3	809.8	728.3	808.8	863.5	889.3
65°	7635.2	4405.1	759.3	888.2	848.0	839.8	817.1	673.7	746.9	800.6	823.2
67.5°	6680.9	3424.0	616.9	662.3	766.5	759.3	746.9	625.2	673.7	711.8	737.6
70°	5479.0	2395.5	521.0	497.2	657.2	680.9	653.0	564.3	579.8	619.0	639.6
72.5°	4007.9	1492.8	428.1	410.6	528.2	595.3	580.8	497.2	504.5	541.6	558.1
75°	2882.4	854.2	343.5	338.4	403.4	509.6	480.7	428.1	436.4	464.2	475.6
77.5°	1832.2	475.6	265.1	272.4	288.9	380.7	410.6	366.2	366.2	382.7	392.0
80°	981.1	272.4	193.9	197.0	202.2	290.9	323.9	283.7	283.7	272.4	283.7
82.5°	400.3	156.8	133.1	123.8	135.1	199.1	227.0	180.5	188.8	170.2	174.3
85°	132.0	78.4	66.0	65.0	64.0	87.7	109.4	89.8	107.3	68.1	71.2
87.5°	17.5	14.4	8.3	6.2	7.2	3.1	6.2	7.2	7.2	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	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1663.0	1654.7	1624.8	1632.1	1626.9	1618.6	1626.9	1611.4	1623.8	1627.9	1653.7
5°	1554.7	1535.1	1506.2	1491.7	1488.7	1480.4	1481.4	1474.2	1476.3	1493.8	1522.7
7.5°	1457.7	1439.1	1416.4	1406.1	1396.8	1387.6	1386.5	1385.5	1393.7	1409.2	1437.1
10°	1387.6	1377.2	1368.0	1372.1	1368.0	1363.8	1356.6	1356.6	1370.0	1397.9	1431.9
12.5°	1387.6	1385.5	1387.6	1399.9	1398.9	1399.9	1390.6	1395.8	1432.9	1480.4	1528.9
15°	1461.8	1445.3	1445.3	1451.5	1449.5	1449.5	1449.5	1471.1	1555.7	1629.0	1680.5
17.5°	1552.6	1504.1	1483.5	1480.4	1479.4	1479.4	1483.5	1529.9	1662.0	1739.3	1769.3
20°	1615.5	1523.7	1489.7	1476.3	1477.3	1479.4	1491.7	1555.7	1701.2	1740.4	1733.2
22.5°	1626.9	1508.3	1467.0	1447.4	1450.5	1452.5	1471.1	1539.2	1647.5	1653.7	1639.3
25°	1574.3	1464.9	1420.6	1405.1	1409.2	1408.2	1424.7	1474.2	1551.6	1549.5	1541.3
27.5°	1495.9	1395.8	1362.8	1352.5	1359.7	1351.4	1356.6	1394.8	1454.6	1452.5	1449.5
30°	1415.4	1328.7	1298.8	1293.7	1303.0	1290.6	1291.6	1323.6	1364.9	1362.8	1361.8
32.5°	1334.9	1261.7	1234.9	1234.9	1244.2	1230.7	1232.8	1260.7	1288.5	1280.3	1280.3
35°	1258.6	1207.0	1185.4	1181.2	1188.4	1179.2	1183.3	1209.1	1219.4	1208.0	1200.8
37.5°	1191.5	1168.8	1147.2	1132.7	1133.8	1134.8	1147.2	1166.8	1160.6	1144.1	1134.8
40°	1129.6	1129.6	1109.0	1082.2	1079.1	1086.3	1106.9	1128.6	1111.1	1092.5	1081.2
42.5°	1085.3	1094.6	1075.0	1048.1	1042.0	1054.3	1077.0	1092.5	1071.9	1051.2	1035.8
45°	1044.0	1066.7	1053.3	1023.4	1015.1	1029.6	1058.5	1064.7	1036.8	1017.2	1005.8
47.5°	1015.1	1046.1	1036.8	1007.9	995.5	1016.2	1046.1	1045.0	1010.0	989.3	980.1
50°	994.5	1033.7	1032.7	1007.9	994.5	1020.3	1047.1	1033.7	995.5	973.9	964.6
52.5°	978.0	1032.7	1039.9	1025.4	1016.2	1038.9	1055.4	1029.6	985.2	962.5	955.3
55°	970.8	1036.8	1042.0	1028.5	1020.3	1040.9	1055.4	1037.8	985.2	964.6	958.4
57.5°	972.8	1031.6	1032.7	1014.1	999.7	1025.4	1048.1	1043.0	996.6	972.8	965.6
60°	960.5	1003.8	1005.8	977.0	960.5	991.4	1031.6	1028.5	991.4	966.6	953.2
62.5°	919.2	957.4	958.4	931.6	907.8	952.2	996.6	995.5	961.5	936.7	921.3
65°	850.1	890.3	900.6	874.8	856.3	903.7	950.1	948.1	914.0	891.3	875.9
67.5°	764.4	807.8	827.4	809.8	802.6	845.9	889.3	888.2	860.4	838.7	825.3
70°	660.2	696.4	729.4	729.4	724.2	773.7	820.2	816.0	790.2	773.7	763.4
72.5°	573.6	601.4	611.8	622.1	637.6	689.1	728.3	731.4	712.9	704.6	712.9
75°	488.0	505.5	514.8	506.5	533.4	587.0	638.6	643.7	624.1	610.7	613.8
77.5°	401.3	420.9	430.2	411.6	409.6	477.6	540.6	551.9	535.4	514.8	521.0
80°	289.9	315.7	331.2	318.8	314.6	344.6	431.2	443.6	428.1	411.6	420.9
82.5°	177.4	191.9	196.0	208.4	234.2	246.6	277.5	318.8	307.4	293.0	318.8
85°	70.2	83.6	92.8	105.2	122.8	145.5	171.3	204.3	185.7	179.5	211.5
87.5°	4.1	1.0	0.0	2.1	17.5	34.0	73.2	101.1	84.6	90.8	109.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1674.3	1701.2	1737.3	1767.2	1805.4	1841.5	1878.6	1915.8	1935.4	1943.6
5°	1555.7	1605.2	1663.0	1727.0	1801.2	1879.6	1959.1	2040.6	2092.2	2096.3
7.5°	1484.5	1555.7	1635.1	1715.6	1807.4	1915.8	2041.6	2167.5	2220.1	2234.5
10°	1507.2	1586.7	1649.6	1724.9	1826.0	1961.1	2109.7	2257.2	2318.1	2335.6
12.5°	1598.0	1613.5	1633.1	1702.2	1826.0	2000.3	2179.9	2355.2	2420.2	2436.7
15°	1673.3	1599.0	1564.0	1637.2	1801.2	2034.4	2254.1	2448.1	2526.5	2542.0
17.5°	1679.5	1551.6	1475.2	1541.3	1757.9	2058.1	2325.3	2551.2	2617.3	2631.7
20°	1616.6	1501.0	1402.0	1442.2	1699.1	2068.4	2376.9	2626.6	2691.5	2706.0
22.5°	1545.4	1459.8	1352.5	1350.4	1627.9	2079.8	2438.8	2697.7	2767.9	2777.2
25°	1478.3	1403.0	1312.2	1283.4	1545.4	2101.4	2522.4	2805.0	2858.7	2861.8
27.5°	1399.9	1342.2	1280.3	1252.4	1473.2	2142.7	2646.2	2932.9	2964.9	2959.8
30°	1328.7	1285.4	1257.6	1249.3	1427.8	2173.7	2763.8	3058.8	3060.9	3043.3
32.5°	1253.4	1236.9	1236.9	1263.8	1390.6	2166.4	2859.7	3181.6	3162.0	3136.2
35°	1186.4	1189.5	1211.1	1274.1	1328.7	2094.2	2951.5	3335.3	3306.4	3269.3
37.5°	1122.4	1146.2	1177.1	1238.0	1247.3	1986.9	3058.8	3553.0	3516.9	3470.4
40°	1067.7	1103.9	1140.0	1169.9	1160.6	1834.3	3208.4	3808.8	3768.6	3714.9
42.5°	1024.4	1059.5	1099.7	1102.8	1105.9	1675.4	3367.3	4122.4	4115.2	4056.4
45°	996.6	1019.3	1057.4	1052.3	1102.8	1500.0	3513.8	4601.1	4696.0	4651.7
47.5°	978.0	995.5	999.7	1021.3	1129.6	1343.2	3702.5	5537.8	5801.9	5751.4
50°	967.7	985.2	938.8	1023.4	1133.8	1242.1	3963.6	6713.9	7138.9	7071.9
52.5°	966.6	962.5	892.4	1045.0	1111.1	1180.2	4099.7	7572.2	8515.1	8660.6
55°	968.7	917.1	868.6	1051.2	1065.7	1157.5	3643.7	7984.9	9785.1	10092.5
57.5°	950.1	867.6	882.1	1026.5	980.1	1218.4	2693.6	7837.4	10292.7	10864.2
60°	915.1	820.2	906.8	959.4	892.4	1114.2	1854.9	7179.2	9766.5	10354.6
62.5°	864.5	787.1	903.7	872.8	860.4	912.0	1275.1	6257.9	8931.9	9506.5
65°	807.8	760.3	855.2	789.2	796.4	701.5	901.7	5218.0	7935.4	8500.7
67.5°	746.9	743.8	784.0	702.5	672.6	556.1	657.2	4182.3	6655.1	7164.7
70°	677.8	700.5	712.9	624.1	545.7	436.4	488.0	2924.7	4909.6	5353.2
72.5°	608.7	610.7	628.3	542.6	408.5	349.7	366.2	1771.3	3335.3	3658.2
75°	538.5	518.9	535.4	441.5	304.3	286.8	282.7	1094.6	2303.6	2558.5
77.5°	463.2	441.5	419.9	332.2	244.5	221.8	216.6	613.8	1413.3	1570.2
80°	376.5	347.7	313.6	243.5	178.5	158.9	157.8	299.2	704.6	785.1
82.5°	293.0	238.3	229.0	151.7	110.4	97.0	103.2	114.5	212.5	237.3
85°	205.3	173.3	121.7	60.9	49.5	40.2	39.2	34.0	56.7	62.9
87.5°	114.5	75.3	39.2	7.2	8.3	9.3	7.2	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)