

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: P636777

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636777
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-SA4B-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13565.9 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

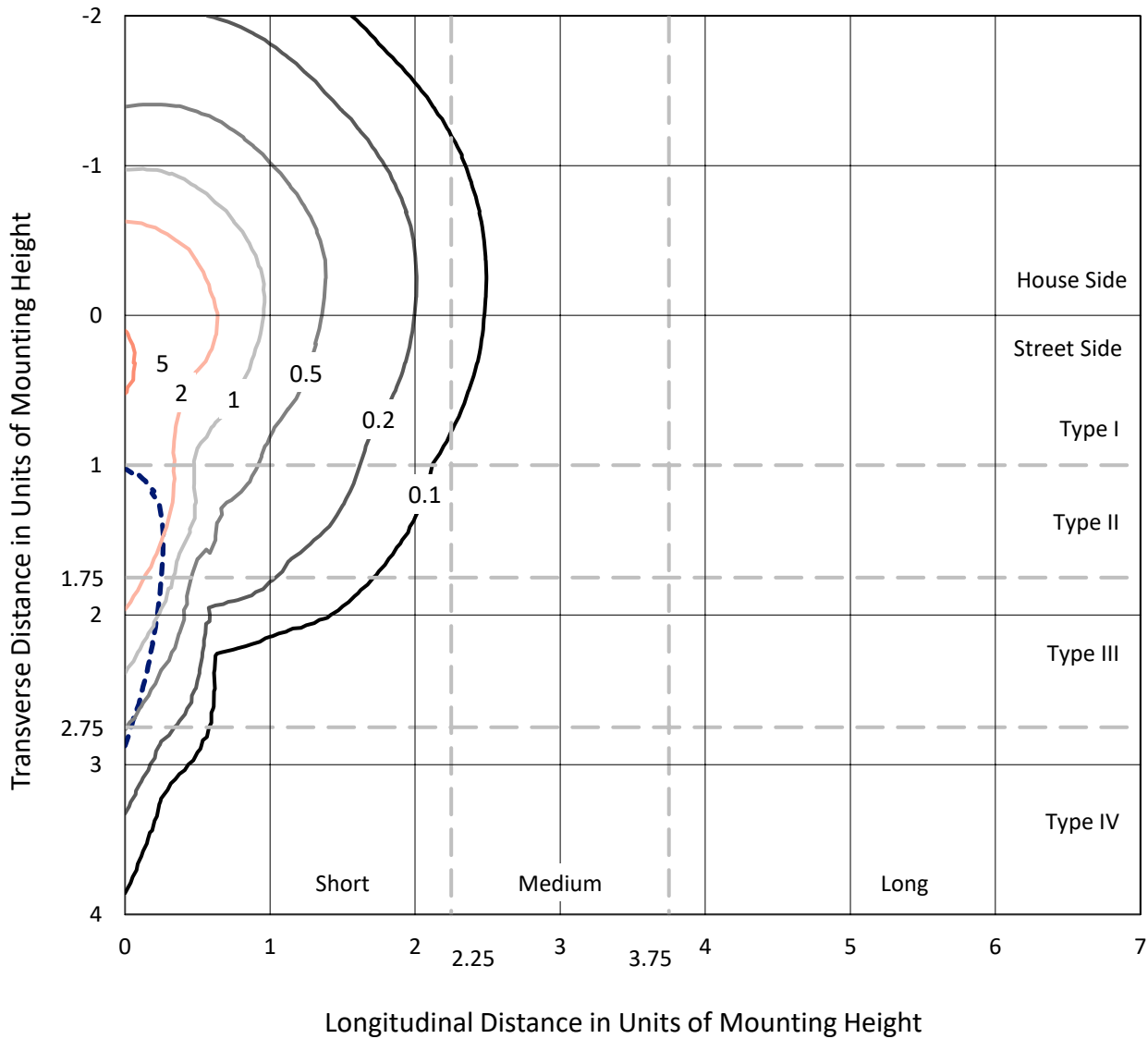
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

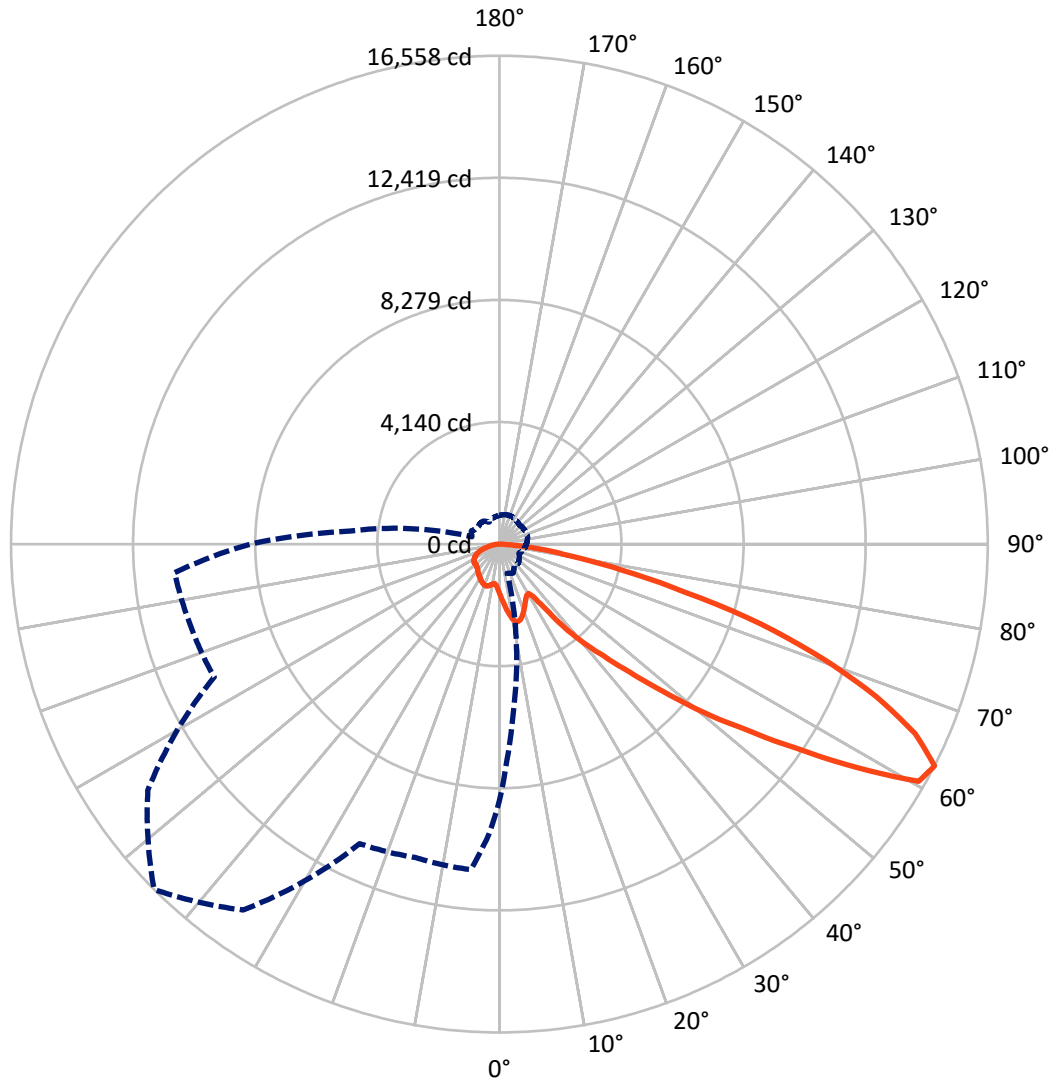
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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
House Side	Lumens	3243.6	0.0	3243.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10322.3	0.0	10322.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	13565.9	0.0	13565.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.2
10°-20°	541.5	4.0
20°-30°	852.5	6.3
30°-40°	1168.5	8.6
40°-50°	1823.2	13.4
50°-60°	3143.6	23.2
60°-70°	3643.1	26.9
70°-80°	1923.0	14.2
80°-90°	303.8	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°	13565.9	100.0
0°-180°	13565.9	100.0

Coefficient of Utilization



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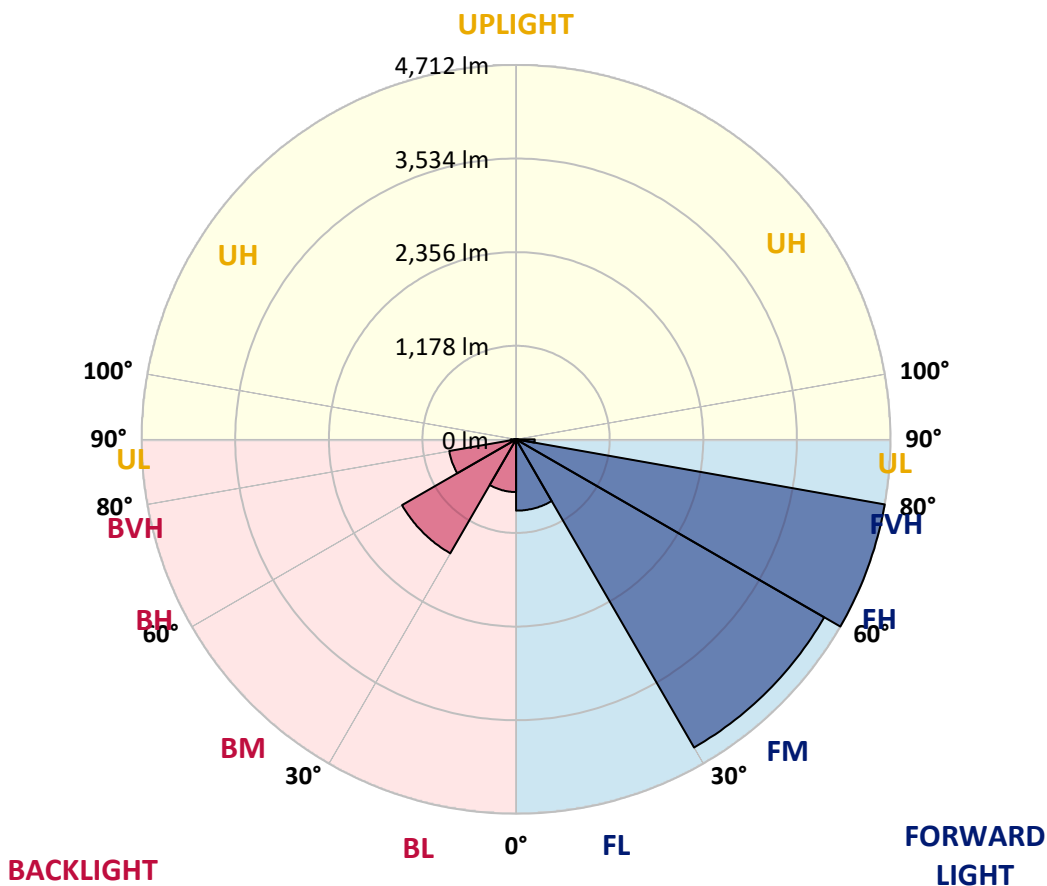
CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.2	6.6			
FM (30°-60°)	4478.6	33.0			
FH (60°-80°)	4712.0	34.7			G2/5000
FVH (80°-90°)	234.5	1.7			G3/500
BL (0°-30°)	663.4	4.9	B2/1000		
BM (30°-60°)	1656.8	12.2	B2/2500		
BH (60°-80°)	854.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1837.7	1830.4	1820.1	1784.8	1763.0	1738.1	1712.1	1682.0	1647.8	1623.9	1600.1
5°	1993.3	1981.9	1957.0	1873.0	1814.9	1751.6	1698.7	1638.5	1579.3	1538.9	1498.4
7.5°	2142.8	2128.2	2089.8	1961.2	1866.8	1775.4	1695.5	1608.4	1520.2	1460.0	1412.3
10°	2292.2	2262.1	2213.3	2045.2	1920.7	1814.9	1723.6	1616.7	1499.4	1417.4	1366.6
12.5°	2406.3	2378.3	2325.4	2122.0	1974.7	1841.8	1739.1	1640.5	1540.9	1453.8	1401.9
15°	2513.2	2476.9	2416.7	2193.6	2019.3	1840.8	1708.0	1621.9	1607.3	1585.5	1518.1
17.5°	2590.0	2556.8	2494.5	2251.7	2044.2	1808.6	1621.9	1571.0	1636.4	1702.8	1638.5
20°	2657.4	2619.1	2555.8	2292.2	2049.4	1737.0	1517.1	1518.1	1620.8	1712.1	1696.6
22.5°	2714.5	2672.0	2615.9	2337.8	2047.3	1637.4	1425.7	1488.0	1590.7	1662.3	1664.4
25°	2785.1	2749.8	2703.1	2405.3	2047.3	1535.7	1359.3	1451.7	1539.9	1600.1	1598.0
27.5°	2871.2	2847.3	2808.9	2508.0	2066.0	1450.6	1322.0	1405.0	1474.5	1526.4	1525.4
30°	2967.7	2945.9	2916.9	2617.0	2098.1	1387.4	1301.2	1346.9	1397.7	1439.2	1439.2
32.5°	3066.3	3058.0	3026.9	2704.1	2073.2	1367.6	1283.6	1288.8	1315.8	1350.0	1346.9
35°	3203.3	3195.0	3155.5	2771.6	1965.3	1339.6	1255.6	1229.6	1232.7	1254.5	1261.8
37.5°	3403.5	3391.1	3333.0	2850.5	1802.4	1269.1	1209.9	1167.4	1158.0	1167.4	1180.9
40°	3645.3	3626.6	3547.8	2957.3	1614.6	1173.6	1138.3	1103.0	1087.5	1090.6	1106.1
42.5°	3948.3	3908.9	3795.8	3070.4	1428.9	1089.5	1058.4	1036.6	1019.0	1016.9	1047.0
45°	4440.1	4332.2	4152.7	3171.1	1272.2	1044.9	986.8	971.3	956.7	965.0	1000.3
47.5°	5299.3	5100.1	4750.4	3257.2	1176.7	1046.0	929.7	913.1	912.1	928.7	968.1
50°	6480.2	6192.8	5653.2	3315.3	1126.9	1058.4	895.5	868.5	888.2	904.8	942.2
52.5°	7611.2	7172.3	6530.0	3314.3	1105.1	1060.5	904.8	827.0	888.2	892.4	927.7
55°	8577.3	7782.5	6766.6	2973.9	1074.0	1052.2	941.2	794.8	876.8	892.4	920.4
57.5°	9345.2	8170.5	6748.9	2402.2	1168.4	1006.5	962.9	787.6	843.6	894.5	926.6
60°	9260.1	7993.1	6314.2	1474.5	1159.1	925.6	959.8	801.1	787.6	866.4	919.4
62.5°	8694.6	7357.0	5566.0	1023.1	1088.5	878.9	909.0	824.9	735.7	826.0	884.1
65°	7902.8	6536.2	4638.3	784.5	901.7	881.0	822.9	808.3	690.0	761.6	823.9
67.5°	6855.8	5518.3	3661.9	621.6	628.8	762.7	747.1	718.1	647.5	704.6	760.6
70°	5154.1	4027.2	2519.4	500.2	476.3	637.1	671.4	645.4	606.0	622.6	681.7
72.5°	3631.8	2629.4	1380.1	396.4	367.3	489.8	583.2	579.0	535.4	547.9	606.0
75°	2699.0	1860.5	862.3	313.4	298.8	350.7	488.7	501.2	464.9	479.4	524.0
77.5°	1796.2	1204.7	479.4	232.4	232.4	256.3	364.2	422.3	395.3	406.8	437.9
80°	991.0	613.3	239.7	152.5	156.7	176.4	265.6	304.0	305.1	333.1	341.4
82.5°	313.4	195.1	106.9	89.2	84.1	100.7	171.2	217.9	203.4	259.4	238.7
85°	71.6	45.7	19.7	19.7	21.8	33.2	65.4	116.2	148.4	178.5	129.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	45.7	67.4	60.2
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°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1585.5	1564.8	1558.6	1540.9	1538.9	1522.2	1516.0	1516.0	1523.3	1523.3	1530.5
5°	1481.8	1455.8	1441.3	1420.6	1415.4	1402.9	1394.6	1395.7	1405.0	1411.2	1423.7
7.5°	1390.5	1372.8	1362.4	1353.1	1351.0	1349.0	1339.6	1338.6	1341.7	1351.0	1360.4
10°	1352.1	1339.6	1342.7	1350.0	1361.4	1367.6	1359.3	1355.2	1352.1	1358.3	1366.6
12.5°	1389.4	1377.0	1383.2	1395.7	1411.2	1417.4	1414.3	1413.3	1416.4	1440.3	1457.9
15°	1471.4	1447.5	1439.2	1444.4	1456.9	1463.1	1460.0	1464.1	1483.9	1546.1	1590.7
17.5°	1573.1	1515.0	1481.8	1472.4	1477.6	1482.8	1482.8	1493.2	1527.4	1618.8	1674.8
20°	1628.1	1552.3	1496.3	1473.5	1475.6	1480.7	1480.7	1495.3	1533.7	1631.2	1667.5
22.5°	1613.6	1544.0	1475.6	1450.6	1451.7	1455.8	1455.8	1468.3	1502.5	1588.7	1605.3
25°	1556.5	1495.3	1427.8	1406.0	1408.1	1415.4	1413.3	1420.6	1446.5	1517.1	1526.4
27.5°	1488.0	1434.0	1367.6	1351.0	1360.4	1374.9	1362.4	1363.5	1387.4	1446.5	1447.5
30°	1414.3	1369.7	1310.6	1298.1	1315.8	1323.0	1311.6	1311.6	1335.5	1375.9	1374.9
32.5°	1334.4	1306.4	1263.9	1250.4	1270.1	1281.5	1267.0	1269.1	1287.7	1314.7	1304.3
35°	1259.7	1245.2	1225.5	1216.1	1228.6	1239.0	1229.6	1233.8	1251.4	1258.7	1244.2
37.5°	1188.1	1186.0	1188.1	1188.1	1191.2	1194.3	1188.1	1198.5	1214.1	1204.7	1188.1
40°	1125.9	1134.2	1153.9	1148.7	1145.6	1148.7	1144.5	1162.2	1177.7	1161.1	1141.4
42.5°	1074.0	1089.5	1119.6	1119.6	1113.4	1115.5	1113.4	1135.2	1146.6	1123.8	1102.0
45°	1029.4	1052.2	1090.6	1095.8	1085.4	1085.4	1089.5	1116.5	1120.7	1089.5	1066.7
47.5°	998.2	1026.2	1069.8	1079.2	1063.6	1062.6	1074.0	1103.0	1103.0	1066.7	1040.8
50°	976.4	1007.6	1059.5	1071.9	1056.3	1052.2	1070.9	1098.9	1092.7	1049.1	1023.1
52.5°	961.9	994.1	1058.4	1076.1	1065.7	1061.5	1080.2	1099.9	1084.4	1037.7	1010.7
55°	952.6	987.9	1061.5	1076.1	1064.6	1057.4	1076.1	1093.7	1085.4	1031.4	1005.5
57.5°	957.8	993.0	1057.4	1064.6	1051.2	1038.7	1060.5	1085.4	1082.3	1033.5	1007.6
60°	949.5	981.6	1034.5	1036.6	1013.8	994.1	1026.2	1063.6	1063.6	1026.2	1003.4
62.5°	911.1	943.2	989.9	992.0	966.1	944.3	981.6	1026.2	1025.2	995.1	971.3
65°	847.8	877.9	930.8	936.0	910.0	887.2	925.6	967.1	970.2	943.2	922.5
67.5°	778.2	805.2	844.7	865.4	843.6	819.8	855.0	894.5	893.4	861.3	839.5
70°	695.2	720.1	756.5	774.1	760.6	737.8	769.9	790.7	781.4	765.8	751.3
72.5°	613.3	637.1	671.4	671.4	656.8	635.0	644.4	681.7	693.2	681.7	672.4
75°	527.1	547.9	571.8	576.9	544.8	505.3	548.9	581.1	594.6	589.4	578.0
77.5°	438.9	454.5	489.8	480.4	420.3	399.5	434.8	482.5	491.9	488.7	473.2
80°	338.3	347.6	385.0	366.3	319.6	306.1	321.7	359.0	361.1	350.7	331.0
82.5°	227.2	239.7	264.6	228.3	227.2	214.8	202.3	206.5	225.2	223.1	209.6
85°	116.2	122.4	146.3	137.0	117.3	101.7	96.5	102.7	92.4	84.1	72.6
87.5°	48.8	52.9	72.6	40.5	12.5	0.0	0.0	6.2	9.3	13.5	14.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1547.2	1558.6	1586.6	1621.9	1656.1	1691.4	1729.8	1753.6	1782.7	1820.1	1821.1
5°	1439.2	1465.2	1505.6	1559.6	1615.6	1680.0	1754.7	1816.9	1891.7	1950.8	1974.7
7.5°	1372.8	1410.2	1461.0	1529.5	1603.2	1683.1	1780.6	1885.4	2007.9	2086.7	2133.4
10°	1379.1	1436.1	1487.0	1545.1	1611.5	1697.6	1823.2	1962.2	2112.7	2216.4	2274.6
12.5°	1490.1	1550.3	1540.9	1537.8	1582.4	1687.2	1857.4	2040.0	2223.7	2327.5	2397.0
15°	1630.2	1653.0	1564.8	1498.4	1525.4	1649.9	1876.1	2109.6	2316.1	2442.7	2511.1
17.5°	1701.8	1656.1	1549.2	1449.6	1442.3	1592.8	1885.4	2180.1	2419.8	2546.4	2619.1
20°	1668.6	1602.1	1511.9	1417.4	1365.6	1515.0	1880.2	2236.2	2514.3	2655.4	2714.5
22.5°	1597.0	1538.9	1468.3	1378.0	1303.3	1429.9	1866.8	2292.2	2598.3	2740.5	2792.3
25°	1519.1	1475.6	1417.4	1338.6	1268.0	1355.2	1857.4	2366.9	2694.8	2830.7	2863.9
27.5°	1441.3	1409.1	1361.4	1300.2	1259.7	1303.3	1860.5	2464.4	2819.3	2948.0	2934.5
30°	1364.5	1336.5	1303.3	1276.3	1258.7	1290.8	1852.2	2568.2	2956.3	3075.6	2995.7
32.5°	1291.9	1265.9	1245.2	1249.3	1259.7	1296.0	1809.7	2662.6	3081.9	3183.5	3062.1
35°	1229.6	1202.6	1202.6	1217.2	1255.6	1278.4	1699.7	2736.3	3220.9	3322.6	3156.6
37.5°	1171.5	1147.7	1163.2	1187.1	1223.4	1230.7	1558.6	2807.9	3423.2	3518.7	3302.9
40°	1120.7	1096.8	1124.8	1154.9	1173.6	1170.5	1415.4	2907.5	3661.9	3760.5	3496.9
42.5°	1080.2	1058.4	1083.3	1121.7	1124.8	1127.9	1310.6	3003.0	3939.0	4064.5	3831.0
45°	1047.0	1031.4	1043.9	1082.3	1082.3	1130.0	1245.2	3082.9	4356.1	4578.2	4444.3
47.5°	1021.1	1011.7	1017.9	1030.4	1051.2	1167.4	1203.7	3144.1	5115.7	5551.5	5416.6
50°	1006.5	997.2	1005.5	979.6	1041.8	1186.0	1190.2	3190.8	6117.0	6799.8	6632.7
52.5°	994.1	991.0	996.2	936.0	1062.6	1173.6	1179.8	3128.5	6788.4	8028.4	8193.4
55°	989.9	992.0	967.1	903.8	1087.5	1132.1	1148.7	2683.4	6971.0	9087.8	10112.0
57.5°	992.0	985.8	922.5	906.9	1088.5	1049.1	1193.3	1914.5	6705.4	9548.6	11989.1
60°	984.7	953.6	868.5	934.9	1040.8	951.5	1161.1	1248.3	6004.9	9194.7	12098.1
62.5°	952.6	906.9	821.8	950.5	955.7	893.4	1054.3	961.9	5071.0	8437.2	11048.0
65°	905.9	844.7	782.4	918.3	869.6	866.4	792.8	771.0	4078.0	7535.5	10051.8
67.5°	829.1	767.9	753.3	844.7	782.4	767.9	637.1	639.2	3254.1	6574.6	9050.5
70°	741.9	680.7	692.1	763.7	696.3	638.2	515.7	532.3	2468.6	5477.8	7700.5
72.5°	684.9	602.9	603.9	672.4	612.2	516.8	424.4	438.9	1566.9	4128.9	6122.2
75°	578.0	531.3	508.5	544.8	519.9	402.6	357.0	353.8	928.7	2959.4	4584.4
77.5°	482.5	446.2	434.8	449.3	388.1	297.8	287.4	282.2	526.1	1895.8	3004.0
80°	349.7	340.4	339.3	346.6	298.8	218.9	218.9	220.0	283.3	1029.4	1693.5
82.5°	222.1	242.8	214.8	238.7	203.4	155.6	145.3	165.0	162.9	438.9	713.9
85°	92.4	126.6	118.3	125.6	96.5	85.1	91.3	98.6	94.4	169.1	278.1
87.5°	17.6	20.8	22.8	21.8	21.8	27.0	30.1	36.3	36.3	48.8	84.1
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°	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1860.5	1890.6	1884.4	1897.9	1880.2	1886.5	1851.2	1841.8	1835.6	1837.7
5°	2051.5	2112.7	2124.1	2146.9	2131.4	2131.4	2069.1	2022.4	2005.8	1993.3
7.5°	2245.5	2333.7	2391.8	2398.0	2389.7	2373.1	2282.9	2198.8	2168.7	2142.8
10°	2417.7	2523.6	2589.0	2620.1	2604.5	2578.6	2466.5	2351.3	2315.0	2292.2
12.5°	2549.5	2642.9	2686.5	2707.3	2705.2	2695.8	2604.5	2480.0	2441.6	2406.3
15°	2634.6	2681.3	2664.7	2663.7	2678.2	2715.6	2687.5	2590.0	2545.4	2513.2
17.5°	2689.6	2645.0	2571.3	2537.1	2568.2	2656.4	2720.7	2665.8	2625.3	2590.0
20°	2709.3	2550.6	2443.7	2380.4	2416.7	2544.3	2703.1	2720.7	2686.5	2657.4
22.5°	2686.5	2435.4	2290.1	2215.4	2250.7	2403.2	2651.2	2765.4	2742.5	2714.5
25°	2630.5	2315.0	2140.7	2073.2	2111.6	2267.3	2558.9	2806.9	2807.9	2785.1
27.5°	2560.9	2204.0	2035.9	1972.6	2009.9	2155.2	2468.6	2843.2	2879.5	2871.2
30°	2490.4	2137.6	1986.1	1941.5	1969.5	2098.1	2376.2	2880.5	2953.2	2967.7
32.5°	2458.2	2169.7	2103.3	2123.1	2086.7	2131.4	2343.0	2933.5	3042.4	3066.3
35°	2500.8	2455.1	2623.2	2701.0	2572.4	2403.2	2385.6	3013.4	3168.0	3203.3
37.5°	2707.3	3066.3	3317.4	3591.3	3368.2	2995.7	2596.2	3149.3	3347.5	3403.5
40°	3156.6	3599.6	4053.1	4406.9	4069.7	3568.5	2996.8	3351.6	3594.5	3645.3
42.5°	3579.9	4099.8	4724.5	5182.1	4744.2	4036.5	3428.4	3692.0	3920.3	3948.3
45°	3995.0	4590.6	5537.0	6173.0	5578.5	4481.7	3869.4	4266.9	4439.1	4440.1
47.5°	4481.7	5143.7	6555.9	7461.8	6685.6	4974.5	4283.5	5176.9	5416.6	5299.3
50°	5063.8	5693.6	7605.0	8961.2	8035.6	5580.5	4809.6	6286.1	6613.0	6480.2
52.5°	5843.1	6299.6	8761.0	10423.3	9507.0	6270.6	5572.2	7751.3	7859.2	7611.2
55°	6939.9	7174.4	10244.8	12228.8	11149.7	7120.4	6687.7	9590.1	9288.1	8577.3
57.5°	9437.5	8558.6	12150.0	14288.6	13008.1	8664.5	9132.5	11617.6	10543.7	9345.2
60°	11527.4	10239.6	13913.0	16332.8	14600.9	10366.2	11427.8	11970.5	10497.0	9260.1
62.5°	10822.8	10668.2	14549.0	16558.0	15144.7	11203.6	11001.3	11081.2	9812.1	8694.6
65°	9495.6	9841.2	13981.4	15490.2	14541.8	10453.4	9951.2	10259.4	9028.7	7902.8
67.5°	8712.2	8966.4	12971.8	13781.2	13446.0	9641.9	9134.5	8911.4	7812.5	6855.8
70°	7911.1	8121.8	11554.4	11636.3	11737.0	8293.0	7469.1	6805.0	5823.4	5154.1
72.5°	6836.1	6847.5	9762.3	9287.1	9478.0	6489.5	6012.2	5087.7	4238.8	3631.8
75°	5735.2	5421.8	7727.5	6491.6	6874.5	5048.2	4992.2	3834.2	3197.0	2699.0
77.5°	4372.7	4006.4	5644.9	4268.9	4828.2	3362.0	3753.2	2600.4	2249.6	1796.2
80°	2935.5	2707.3	3119.2	2409.4	3158.6	2317.1	2447.8	1473.5	1277.4	991.0
82.5°	1548.2	1322.0	1928.0	1428.9	1905.1	1273.2	918.3	455.5	388.1	313.4
85°	599.8	694.2	945.3	508.5	738.8	454.5	265.6	113.1	94.4	71.6
87.5°	116.2	179.5	98.6	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

(END OF REPORT)