

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: P633422

Luminaire Tested: GWS-SA2E-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633422
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-SA2E-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13796.9 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

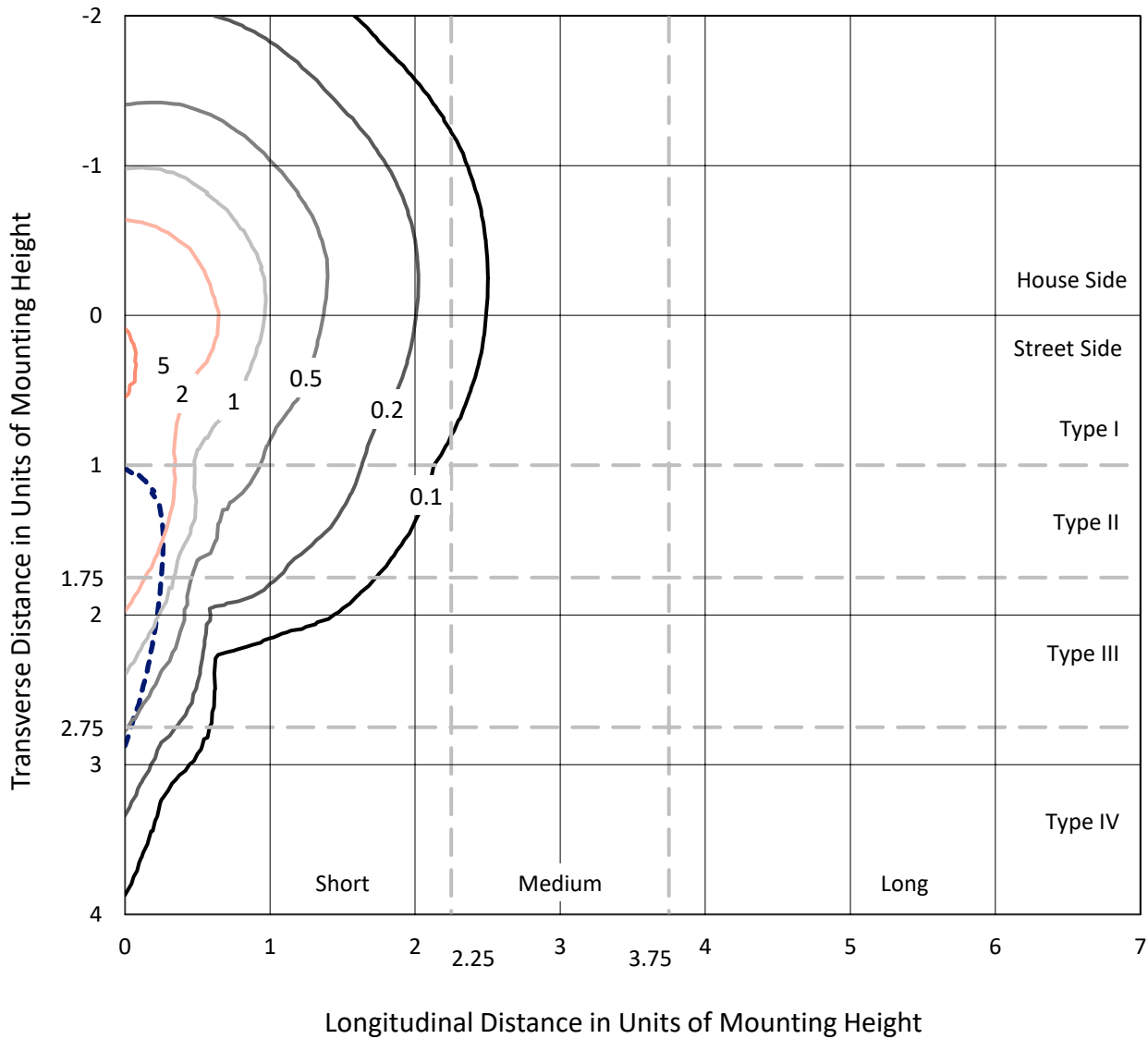
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

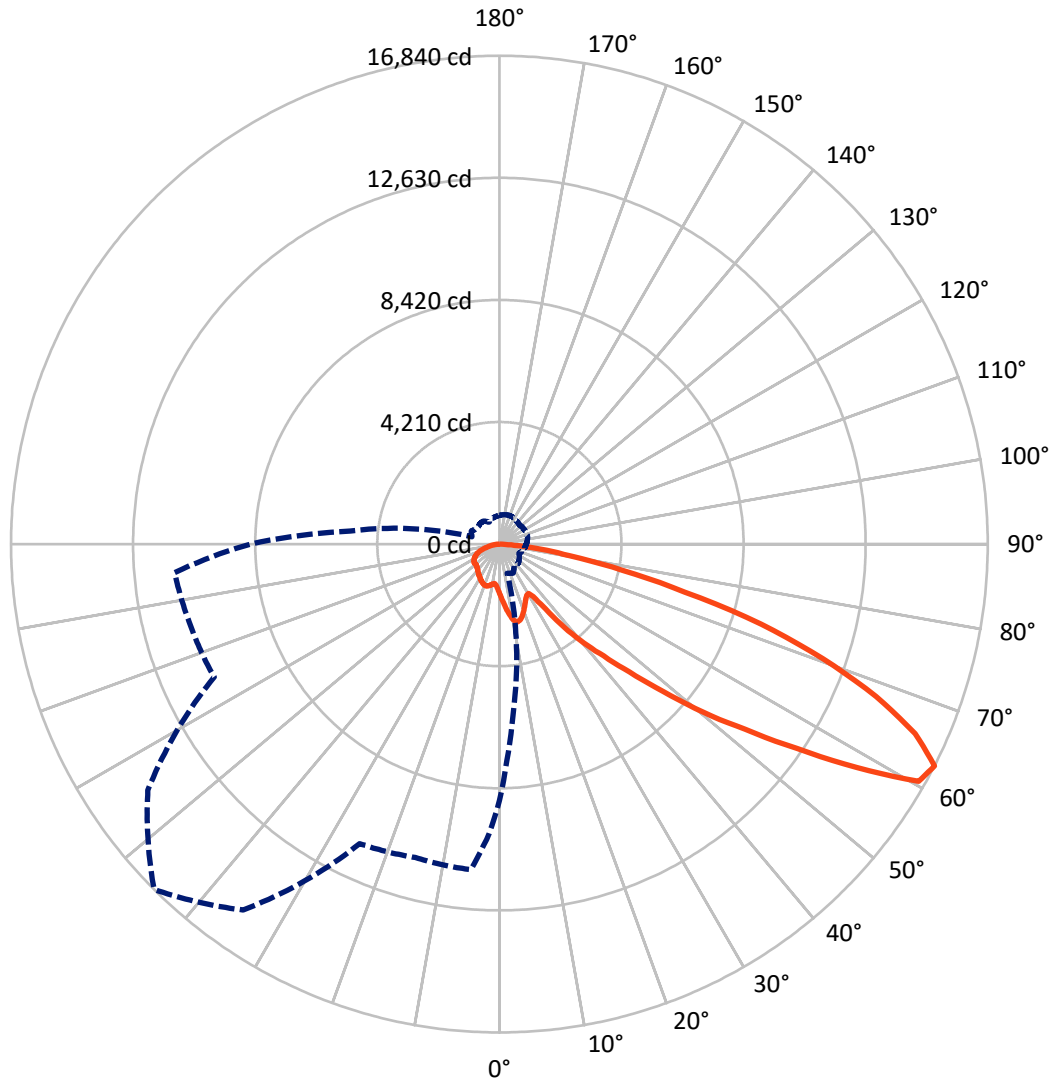
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	3298.9	0.0	3298.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10498.0	0.0	10498.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	13796.9	0.0	13796.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.2
10°-20°	550.8	4.0
20°-30°	867.0	6.3
30°-40°	1188.4	8.6
40°-50°	1854.3	13.4
50°-60°	3197.2	23.2
60°-70°	3705.1	26.9
70°-80°	1955.7	14.2
80°-90°	308.9	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°	13796.9	100.0
0°-180°	13796.9	100.0

Coefficient of Utilization



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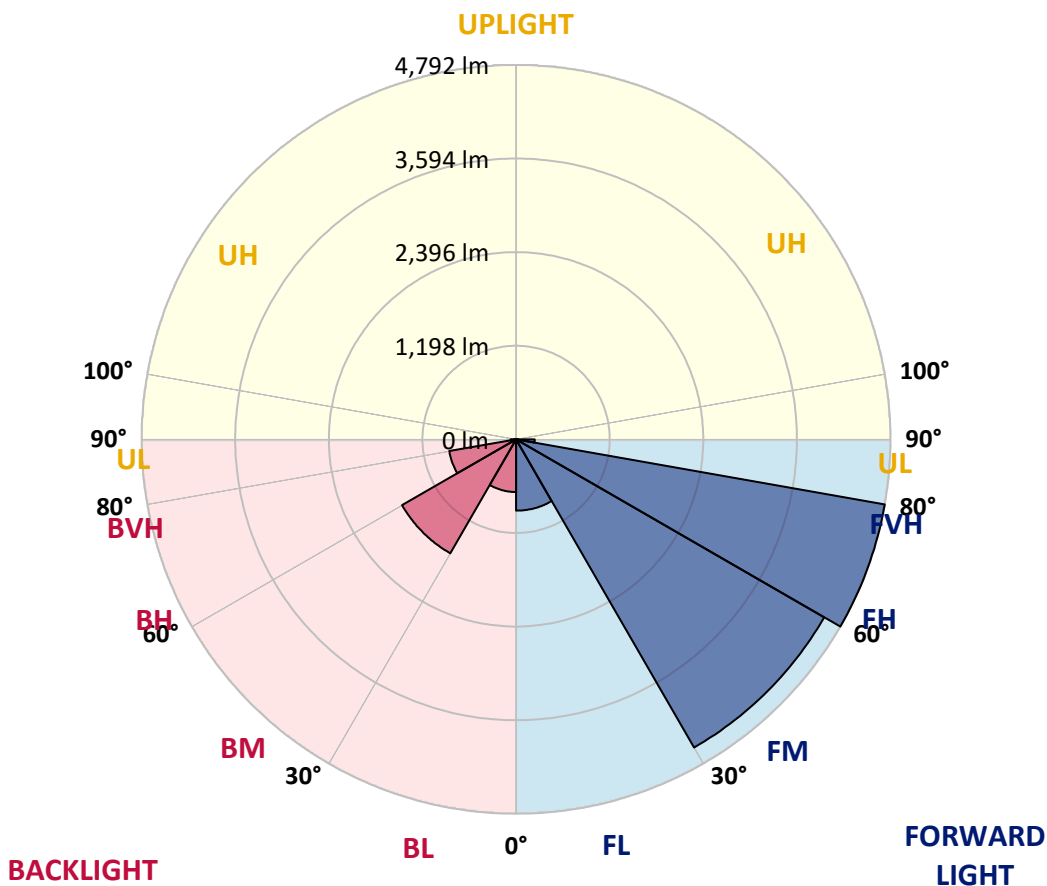
CATALOG NUMBER: GWS-SA2E-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.5	6.6			
FM (30°-60°)	4554.8	33.0			
FH (60°-80°)	4792.2	34.7			G2/5000
FVH (80°-90°)	238.5	1.7			G3/500
BL (0°-30°)	674.7	4.9	B2/1000		
BM (30°-60°)	1685.0	12.2	B2/2500		
BH (60°-80°)	868.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	70.5	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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1869.0	1861.6	1851.0	1815.2	1793.0	1767.7	1741.3	1710.7	1675.9	1651.6	1627.3
5°	2027.3	2015.7	1990.4	1904.9	1845.8	1781.4	1727.6	1666.4	1606.2	1565.1	1523.9
7.5°	2179.3	2164.5	2125.4	1994.6	1898.5	1805.7	1724.4	1635.8	1546.1	1484.8	1436.3
10°	2331.2	2300.6	2251.0	2080.1	1953.4	1845.8	1752.9	1644.2	1525.0	1441.6	1389.9
12.5°	2447.3	2418.8	2365.0	2158.1	2008.3	1873.2	1768.7	1668.5	1567.2	1478.5	1425.8
15°	2556.0	2519.1	2457.9	2231.0	2053.7	1872.2	1737.1	1649.5	1634.7	1612.5	1543.9
17.5°	2634.1	2600.3	2537.0	2290.1	2079.0	1839.4	1649.5	1597.8	1664.3	1731.8	1666.4
20°	2702.7	2663.7	2599.3	2331.2	2084.3	1766.6	1542.9	1543.9	1648.4	1741.3	1725.5
22.5°	2760.7	2717.5	2660.5	2377.7	2082.2	1665.3	1450.0	1513.3	1617.8	1690.6	1692.7
25°	2832.5	2796.6	2749.1	2446.3	2082.2	1561.9	1382.5	1476.4	1566.1	1627.3	1625.2
27.5°	2920.1	2895.8	2856.8	2550.7	2101.2	1475.4	1344.5	1428.9	1499.6	1552.4	1551.3
30°	3018.2	2996.1	2966.5	2661.5	2133.9	1411.0	1323.4	1369.8	1421.5	1463.7	1463.7
32.5°	3118.5	3110.1	3078.4	2750.2	2108.5	1390.9	1305.4	1310.7	1338.2	1373.0	1369.8
35°	3257.8	3249.4	3209.3	2818.8	1998.8	1362.4	1276.9	1250.6	1253.7	1275.9	1283.3
37.5°	3461.5	3448.8	3389.7	2899.0	1833.1	1290.7	1230.5	1187.2	1177.7	1187.2	1201.0
40°	3707.4	3688.4	3608.2	3007.7	1642.1	1193.6	1157.7	1121.8	1106.0	1109.2	1125.0
42.5°	4015.5	3975.4	3860.4	3122.7	1453.2	1108.1	1076.4	1054.3	1036.3	1034.2	1064.8
45°	4515.8	4406.0	4223.4	3225.1	1293.8	1062.7	1003.6	987.8	973.0	981.5	1017.3
47.5°	5389.6	5186.9	4831.3	3312.7	1196.7	1063.8	945.6	928.7	927.6	944.5	984.6
50°	6590.5	6298.2	5749.4	3371.8	1146.1	1076.4	910.7	883.3	903.4	920.2	958.2
52.5°	7740.8	7294.4	6641.2	3370.7	1123.9	1078.5	920.2	841.1	903.4	907.6	943.5
55°	8723.4	7915.0	6881.8	3024.6	1092.3	1070.1	957.2	808.4	891.8	907.6	936.1
57.5°	9504.3	8309.7	6863.9	2443.1	1188.3	1023.7	979.3	801.0	858.0	909.7	942.4
60°	9417.8	8129.2	6421.7	1499.6	1178.8	941.4	976.2	814.7	801.0	881.2	935.0
62.5°	8842.6	7482.3	5660.8	1040.6	1107.0	893.9	924.5	839.0	748.2	840.0	899.1
65°	8037.4	6647.5	4717.3	797.8	917.1	896.0	836.9	822.1	701.8	774.6	837.9
67.5°	6972.6	5612.2	3724.3	632.1	639.5	775.7	759.8	730.3	658.5	716.6	773.6
70°	5241.8	4095.7	2562.3	508.7	484.4	648.0	682.8	656.4	616.3	633.2	693.4
72.5°	3693.7	2674.2	1403.6	403.1	373.6	498.1	593.1	588.9	544.6	557.2	616.3
75°	2744.9	1892.2	877.0	318.7	303.9	356.7	497.1	509.7	472.8	487.6	532.9
77.5°	1826.8	1225.2	487.6	236.4	236.4	260.7	370.4	429.5	402.1	413.7	445.3
80°	1007.8	623.7	243.8	155.1	159.4	179.4	270.2	309.2	310.3	338.8	347.2
82.5°	318.7	198.4	108.7	90.8	85.5	102.4	174.1	221.6	206.8	263.8	242.7
85°	72.8	46.4	20.1	20.1	22.2	33.8	66.5	118.2	150.9	181.5	131.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	46.4	68.6	61.2
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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1612.5	1591.4	1585.1	1567.2	1565.1	1548.2	1541.8	1541.8	1549.2	1549.2	1556.6
5°	1507.0	1480.6	1465.9	1444.7	1439.5	1426.8	1418.4	1419.4	1428.9	1435.2	1447.9
7.5°	1414.1	1396.2	1385.6	1376.2	1374.0	1371.9	1362.4	1361.4	1364.5	1374.0	1383.5
10°	1375.1	1362.4	1365.6	1373.0	1384.6	1390.9	1382.5	1378.3	1375.1	1381.4	1389.9
12.5°	1413.1	1400.4	1406.8	1419.4	1435.2	1441.6	1438.4	1437.4	1440.5	1464.8	1482.7
15°	1496.5	1472.2	1463.7	1469.0	1481.7	1488.0	1484.8	1489.1	1509.1	1572.4	1617.8
17.5°	1599.9	1540.8	1507.0	1497.5	1502.8	1508.1	1508.1	1518.6	1553.4	1646.3	1703.3
20°	1655.8	1578.8	1521.8	1498.6	1500.7	1506.0	1506.0	1520.7	1559.8	1659.0	1695.9
22.5°	1641.0	1570.3	1500.7	1475.4	1476.4	1480.6	1480.6	1493.3	1528.1	1615.7	1632.6
25°	1583.0	1520.7	1452.1	1430.0	1432.1	1439.5	1437.4	1444.7	1471.1	1542.9	1552.4
27.5°	1513.3	1458.5	1390.9	1374.0	1383.5	1398.3	1385.6	1386.7	1411.0	1471.1	1472.2
30°	1438.4	1393.0	1332.9	1320.2	1338.2	1345.5	1333.9	1333.9	1358.2	1399.4	1398.3
32.5°	1357.2	1328.7	1285.4	1271.7	1291.7	1303.3	1288.6	1290.7	1309.7	1337.1	1326.5
35°	1281.2	1266.4	1246.3	1236.8	1249.5	1260.1	1250.6	1254.8	1272.7	1280.1	1265.3
37.5°	1208.4	1206.2	1208.4	1208.4	1211.5	1214.7	1208.4	1218.9	1234.7	1225.2	1208.4
40°	1145.0	1153.5	1173.5	1168.3	1165.1	1168.3	1164.0	1182.0	1197.8	1180.9	1160.9
42.5°	1092.3	1108.1	1138.7	1138.7	1132.4	1134.5	1132.4	1154.5	1166.1	1142.9	1120.8
45°	1046.9	1070.1	1109.2	1114.4	1103.9	1103.9	1108.1	1135.5	1139.8	1108.1	1084.9
47.5°	1015.2	1043.7	1088.0	1097.5	1081.7	1080.7	1092.3	1121.8	1121.8	1084.9	1058.5
50°	993.1	1024.7	1077.5	1090.2	1074.3	1070.1	1089.1	1117.6	1111.3	1066.9	1040.6
52.5°	978.3	1011.0	1076.4	1094.4	1083.8	1079.6	1098.6	1118.6	1102.8	1055.3	1027.9
55°	968.8	1004.7	1079.6	1094.4	1082.8	1075.4	1094.4	1112.3	1103.9	1049.0	1022.6
57.5°	974.1	1010.0	1075.4	1082.8	1069.0	1056.4	1078.5	1103.9	1100.7	1051.1	1024.7
60°	965.6	998.3	1052.2	1054.3	1031.1	1011.0	1043.7	1081.7	1081.7	1043.7	1020.5
62.5°	926.6	959.3	1006.8	1008.9	982.5	960.4	998.3	1043.7	1042.7	1012.1	987.8
65°	862.2	892.8	946.6	951.9	925.5	902.3	941.4	983.6	986.7	959.3	938.2
67.5°	791.5	818.9	859.0	880.1	858.0	833.7	869.6	909.7	908.6	875.9	853.8
70°	707.1	732.4	769.3	787.3	773.6	750.3	783.1	804.2	794.7	778.8	764.1
72.5°	623.7	648.0	682.8	682.8	668.0	645.9	655.4	693.4	705.0	693.4	683.9
75°	536.1	557.2	581.5	586.8	554.0	513.9	558.3	591.0	604.7	599.4	587.8
77.5°	446.4	462.2	498.1	488.6	427.4	406.3	442.2	490.7	500.2	497.1	481.2
80°	344.0	353.5	391.5	372.5	325.0	311.3	327.2	365.1	367.3	356.7	336.7
82.5°	231.1	243.8	269.1	232.2	231.1	218.5	205.8	210.0	229.0	226.9	213.2
85°	118.2	124.5	148.8	139.3	119.3	103.4	98.1	104.5	93.9	85.5	73.9
87.5°	49.6	53.8	73.9	41.2	12.7	0.0	0.0	6.3	9.5	13.7	14.8
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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1573.5	1585.1	1613.6	1649.5	1684.3	1720.2	1759.2	1783.5	1813.1	1851.0	1852.1
5°	1463.7	1490.1	1531.3	1586.2	1643.1	1708.6	1784.6	1847.9	1923.9	1984.0	2008.3
7.5°	1396.2	1434.2	1485.9	1555.6	1630.5	1711.7	1810.9	1917.5	2042.1	2122.3	2169.8
10°	1402.5	1460.6	1512.3	1571.4	1638.9	1726.5	1854.2	1995.6	2148.7	2254.2	2313.3
12.5°	1515.5	1576.7	1567.2	1564.0	1609.4	1716.0	1889.0	2074.8	2261.6	2367.1	2437.8
15°	1657.9	1681.1	1591.4	1523.9	1551.3	1678.0	1908.0	2145.5	2355.5	2484.2	2553.9
17.5°	1730.7	1684.3	1575.6	1474.3	1466.9	1619.9	1917.5	2217.2	2461.0	2589.8	2663.7
20°	1697.0	1629.4	1537.6	1441.6	1388.8	1540.8	1912.3	2274.2	2557.1	2700.6	2760.7
22.5°	1624.2	1565.1	1493.3	1401.5	1325.5	1454.2	1898.5	2331.2	2642.5	2787.1	2839.9
25°	1545.0	1500.7	1441.6	1361.4	1289.6	1378.3	1889.0	2407.2	2740.7	2878.9	2912.7
27.5°	1465.9	1433.1	1384.6	1322.3	1281.2	1325.5	1892.2	2506.4	2867.3	2998.2	2984.5
30°	1387.8	1359.3	1325.5	1298.1	1280.1	1312.8	1883.8	2611.9	3006.6	3128.0	3046.7
32.5°	1313.9	1287.5	1266.4	1270.6	1281.2	1318.1	1840.5	2708.0	3134.3	3237.8	3114.3
35°	1250.6	1223.1	1223.1	1237.9	1276.9	1300.2	1728.6	2782.9	3275.7	3379.2	3210.3
37.5°	1191.5	1167.2	1183.0	1207.3	1244.2	1251.6	1585.1	2855.7	3481.5	3578.6	3359.1
40°	1139.8	1115.5	1144.0	1174.6	1193.6	1190.4	1439.5	2957.0	3724.3	3824.5	3556.5
42.5°	1098.6	1076.4	1101.8	1140.8	1144.0	1147.1	1332.9	3054.1	4006.0	4133.7	3896.3
45°	1064.8	1049.0	1061.7	1100.7	1100.7	1149.3	1266.4	3135.4	4430.3	4656.1	4520.0
47.5°	1038.4	1028.9	1035.3	1047.9	1069.0	1187.2	1224.2	3197.6	5202.8	5646.0	5508.8
50°	1023.7	1014.2	1022.6	996.2	1059.6	1206.2	1210.5	3245.1	6221.2	6915.6	6745.7
52.5°	1011.0	1007.8	1013.1	951.9	1080.7	1193.6	1199.9	3181.8	6904.0	8165.1	8332.9
55°	1006.8	1008.9	983.6	919.2	1106.0	1151.4	1168.3	2729.1	7089.7	9242.6	10284.2
57.5°	1008.9	1002.6	938.2	922.4	1107.0	1066.9	1213.6	1947.1	6819.5	9711.1	12193.3
60°	1001.5	969.8	883.3	950.9	1058.5	967.7	1180.9	1269.6	6107.2	9351.3	12304.1
62.5°	968.8	922.4	835.8	966.7	972.0	908.6	1072.2	978.3	5157.4	8580.9	11236.1
65°	921.3	859.0	795.7	934.0	884.4	881.2	806.3	784.1	4147.4	7663.8	10223.0
67.5°	843.2	780.9	766.2	859.0	795.7	780.9	648.0	650.1	3309.5	6686.6	9204.6
70°	754.6	692.3	703.9	776.7	708.1	649.0	524.5	541.4	2510.6	5571.1	7831.6
72.5°	696.5	613.1	614.2	683.9	622.6	525.6	431.6	446.4	1593.5	4199.2	6226.4
75°	587.8	540.3	517.1	554.0	528.7	409.5	363.0	359.9	944.5	3009.8	4662.4
77.5°	490.7	453.8	442.2	457.0	394.7	302.9	292.3	287.0	535.1	1928.1	3055.2
80°	355.6	346.1	345.1	352.5	303.9	222.7	222.7	223.7	288.1	1046.9	1722.3
82.5°	225.8	246.9	218.5	242.7	206.8	158.3	147.7	167.8	165.7	446.4	726.1
85°	93.9	128.8	120.3	127.7	98.1	86.5	92.9	100.3	96.0	172.0	282.8
87.5°	17.9	21.1	23.2	22.2	22.2	27.4	30.6	36.9	36.9	49.6	85.5
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°	358°	360°
0°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1892.2	1922.8	1916.5	1930.2	1912.3	1918.6	1882.7	1873.2	1866.9	1869.0
5°	2086.4	2148.7	2160.3	2183.5	2167.6	2167.6	2104.3	2056.8	2040.0	2027.3
7.5°	2283.7	2373.4	2432.5	2438.9	2430.4	2413.5	2321.7	2236.2	2205.6	2179.3
10°	2458.9	2566.6	2633.0	2664.7	2648.9	2622.5	2508.5	2391.4	2354.4	2331.2
12.5°	2592.9	2687.9	2732.2	2753.4	2751.2	2741.7	2648.9	2522.2	2483.2	2447.3
15°	2679.5	2727.0	2710.1	2709.0	2723.8	2761.8	2733.3	2634.1	2588.7	2556.0
17.5°	2735.4	2690.0	2615.1	2580.3	2611.9	2701.6	2767.1	2711.1	2670.0	2634.1
20°	2755.5	2594.0	2485.3	2420.9	2457.9	2587.7	2749.1	2767.1	2732.2	2702.7
22.5°	2732.2	2476.9	2329.1	2253.1	2289.0	2444.1	2696.4	2812.5	2789.2	2760.7
25°	2675.3	2354.4	2177.1	2108.5	2147.6	2305.9	2602.4	2854.7	2855.7	2832.5
27.5°	2604.6	2241.5	2070.6	2006.2	2044.2	2191.9	2510.6	2891.6	2928.5	2920.1
30°	2532.8	2174.0	2019.9	1974.5	2003.0	2133.9	2416.7	2929.6	3003.5	3018.2
32.5°	2500.1	2206.7	2139.2	2159.2	2122.3	2167.6	2382.9	2983.4	3094.2	3118.5
35°	2543.3	2496.9	2667.9	2747.0	2616.2	2444.1	2426.2	3064.7	3221.9	3257.8
37.5°	2753.4	3118.5	3373.9	3652.5	3425.6	3046.7	2640.4	3202.9	3404.5	3461.5
40°	3210.3	3660.9	4122.1	4482.0	4139.0	3629.3	3047.8	3408.7	3655.7	3707.4
42.5°	3640.9	4169.6	4804.9	5270.3	4825.0	4105.2	3486.8	3754.9	3987.0	4015.5
45°	4063.0	4668.8	5631.2	6278.2	5673.5	4558.0	3935.3	4339.5	4514.7	4515.8
47.5°	4558.0	5231.3	6667.6	7588.9	6799.5	5059.3	4356.4	5265.0	5508.8	5389.6
50°	5150.0	5790.6	7734.5	9113.8	8172.5	5675.6	4891.5	6393.2	6725.6	6590.5
52.5°	5942.6	6406.9	8910.2	10600.8	9668.9	6377.4	5667.1	7883.3	7993.1	7740.8
55°	7058.0	7296.6	10419.3	12437.1	11339.5	7241.7	6801.6	9753.4	9446.3	8723.4
57.5°	9598.2	8704.4	12356.9	14531.9	13229.6	8812.0	9288.0	11815.5	10723.2	9504.3
60°	11723.7	10414.0	14149.9	16610.9	14849.5	10542.7	11622.3	12174.3	10675.7	9417.8
62.5°	11007.1	10849.8	14796.8	16839.9	15402.5	11394.4	11188.6	11269.9	9979.2	8842.6
65°	9657.3	10008.7	14219.5	15754.0	14789.4	10631.4	10120.6	10434.0	9182.4	8037.4
67.5°	8860.5	9119.1	13192.7	14015.8	13675.0	9806.1	9290.1	9063.2	7945.6	6972.6
70°	8045.8	8260.1	11751.1	11834.5	11936.8	8434.2	7596.3	6920.9	5922.5	5241.8
72.5°	6952.5	6964.1	9928.5	9445.2	9639.4	6600.0	6114.6	5174.3	4311.0	3693.7
75°	5832.8	5514.1	7859.0	6602.1	6991.6	5134.2	5077.2	3899.4	3251.5	2744.9
77.5°	4447.2	4074.6	5741.0	4341.6	4910.5	3419.3	3817.1	2644.7	2288.0	1826.8
80°	2985.5	2753.4	3172.3	2450.5	3212.4	2356.6	2489.5	1498.6	1299.1	1007.8
82.5°	1574.6	1344.5	1960.8	1453.2	1937.6	1294.9	934.0	463.3	394.7	318.7
85°	610.0	706.0	961.4	517.1	751.4	462.2	270.2	115.0	96.0	72.8
87.5°	118.2	182.6	100.3	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)