

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: P633862

Luminaire Tested: GWS-SA2F-750-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633862
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-SA2F-750-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15552.8 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

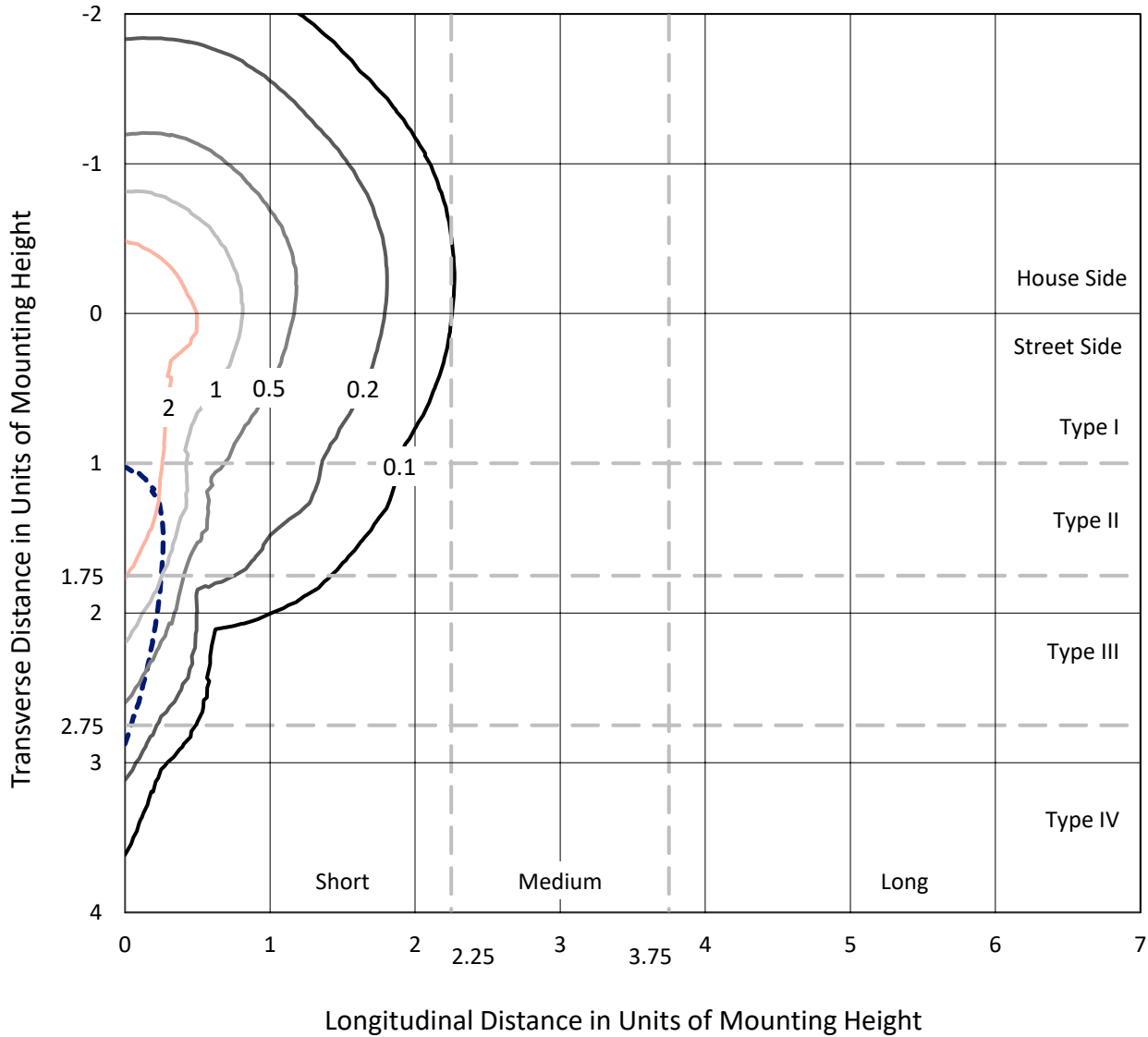
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

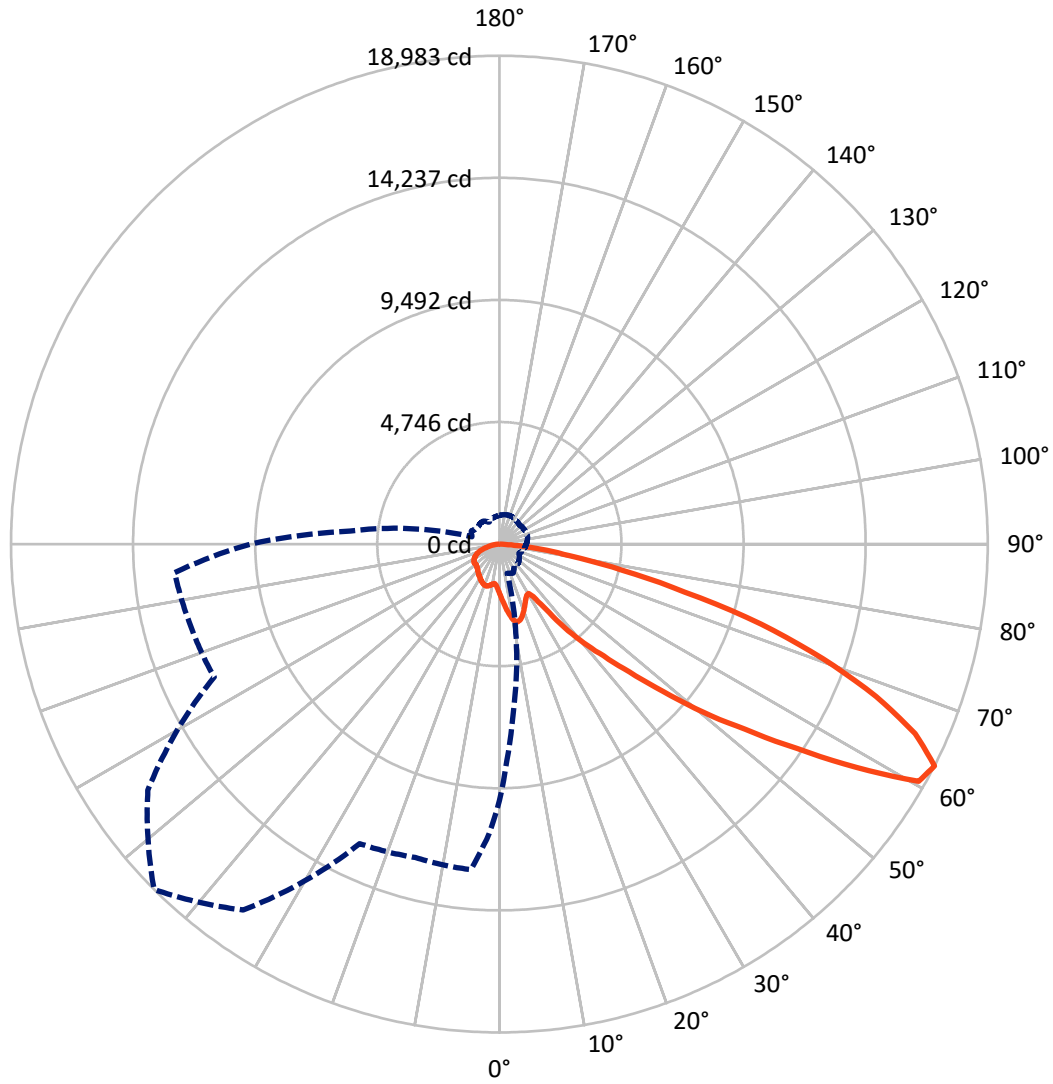
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	3718.7	0.0	3718.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	11834.1	0.0	11834.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	15552.8	0.0	15552.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.2
10°-20°	620.9	4.0
20°-30°	977.4	6.3
30°-40°	1339.7	8.6
40°-50°	2090.3	13.4
50°-60°	3604.1	23.2
60°-70°	4176.7	26.9
70°-80°	2204.6	14.2
80°-90°	348.3	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°	15552.8	100.0
0°-180°	15552.8	100.0

Coefficient of Utilization



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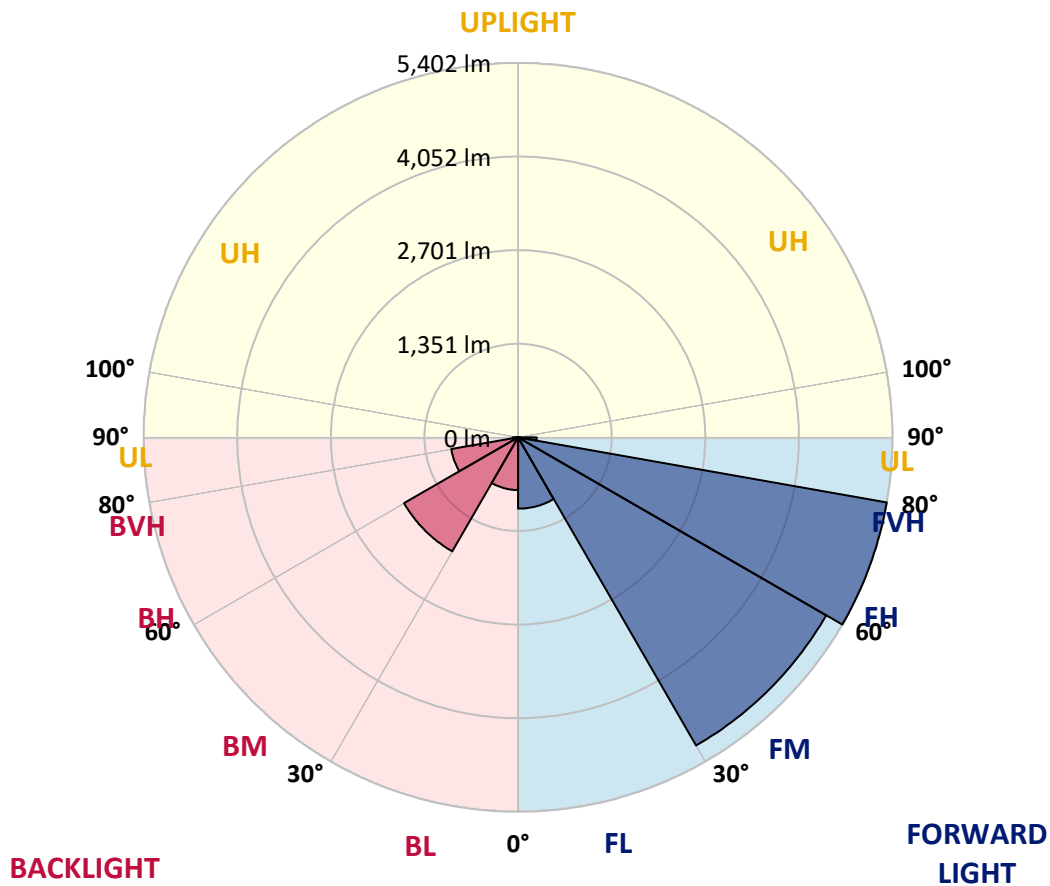
CATALOG NUMBER: GWS-SA2F-750-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.6	6.6			
FM (30°-60°)	5134.5	33.0			
FH (60°-80°)	5402.1	34.7			G3/7500
FVH (80°-90°)	268.8	1.7			G3/500
BL (0°-30°)	760.6	4.9	B2/1000		
BM (30°-60°)	1899.5	12.2	B2/2500		
BH (60°-80°)	979.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	79.5	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°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	2106.9	2098.5	2086.6	2046.2	2021.2	1992.6	1962.9	1928.4	1889.1	1861.8	1834.4
5°	2285.3	2272.2	2243.7	2147.3	2080.7	2008.1	1947.4	1878.4	1810.6	1764.2	1717.8
7.5°	2456.6	2440.0	2395.9	2248.4	2140.2	2035.5	1943.9	1843.9	1742.8	1673.8	1619.1
10°	2627.9	2593.4	2537.5	2344.8	2202.0	2080.7	1976.0	1853.5	1719.0	1625.0	1566.8
12.5°	2758.8	2726.7	2666.0	2432.8	2263.9	2111.6	1993.8	1880.8	1766.6	1666.7	1607.2
15°	2881.3	2839.7	2770.7	2514.9	2315.0	2110.4	1958.1	1859.4	1842.8	1817.8	1740.4
17.5°	2969.3	2931.3	2859.9	2581.5	2343.6	2073.5	1859.4	1801.1	1876.1	1952.2	1878.4
20°	3046.7	3002.6	2930.1	2627.9	2349.5	1991.5	1739.3	1740.4	1858.2	1962.9	1945.1
22.5°	3112.1	3063.3	2999.1	2680.3	2347.2	1877.3	1634.6	1705.9	1823.7	1905.8	1908.2
25°	3193.0	3152.5	3099.0	2757.6	2347.2	1760.7	1558.4	1664.3	1765.4	1834.4	1832.0
27.5°	3291.7	3264.4	3220.4	2875.4	2368.6	1663.1	1515.6	1610.8	1690.5	1750.0	1748.8
30°	3402.4	3377.4	3344.1	3000.3	2405.5	1590.5	1491.8	1544.2	1602.4	1650.0	1650.0
32.5°	3515.4	3505.9	3470.2	3100.2	2376.9	1567.9	1471.6	1477.5	1508.5	1547.7	1544.2
35°	3672.4	3662.9	3617.7	3177.5	2253.2	1535.8	1439.5	1409.7	1413.3	1438.3	1446.6
37.5°	3902.0	3887.7	3821.1	3267.9	2066.4	1454.9	1387.1	1338.3	1327.6	1338.3	1353.8
40°	4179.2	4157.8	4067.4	3390.5	1851.1	1345.5	1305.0	1264.6	1246.7	1250.3	1268.2
42.5°	4526.6	4481.4	4351.7	3520.1	1638.1	1249.1	1213.4	1188.4	1168.2	1165.8	1200.3
45°	5090.5	4966.7	4760.9	3635.5	1458.5	1198.0	1131.3	1113.5	1096.8	1106.4	1146.8
47.5°	6075.5	5847.1	5446.2	3734.3	1349.1	1199.2	1065.9	1046.9	1045.7	1064.7	1109.9
50°	7429.3	7099.8	6481.2	3800.9	1291.9	1213.4	1026.7	995.7	1018.3	1037.4	1080.2
52.5°	8726.0	8222.8	7486.4	3799.7	1267.0	1215.8	1037.4	948.1	1018.3	1023.1	1063.5
55°	9833.6	8922.3	7757.6	3409.5	1231.3	1206.3	1079.0	911.3	1005.2	1023.1	1055.2
57.5°	10713.9	9367.2	7737.4	2754.0	1339.5	1154.0	1104.0	902.9	967.2	1025.5	1062.3
60°	10616.3	9163.8	7239.0	1690.5	1328.8	1061.2	1100.4	918.4	902.9	993.3	1054.0
62.5°	9968.0	8434.5	6381.2	1173.0	1247.9	1007.6	1042.1	945.8	843.5	947.0	1013.6
65°	9060.3	7493.5	5317.7	899.4	1033.8	1010.0	943.4	926.7	791.1	873.2	944.6
67.5°	7859.9	6326.5	4198.2	712.6	720.9	874.4	856.5	823.2	742.3	807.8	872.0
70°	5908.9	4617.0	2888.4	573.4	546.0	730.4	769.7	740.0	694.7	713.8	781.6
72.5°	4163.7	3014.5	1582.2	454.4	421.1	561.5	668.6	663.8	613.9	628.1	694.7
75°	3094.3	2133.0	988.6	359.3	342.6	402.1	560.3	574.6	533.0	549.6	600.8
77.5°	2059.3	1381.2	549.6	266.5	266.5	293.8	417.6	484.2	453.3	466.3	502.0
80°	1136.1	703.1	274.8	174.9	179.6	202.2	304.5	348.6	349.8	381.9	391.4
82.5°	359.3	223.7	122.5	102.3	96.4	115.4	196.3	249.8	233.2	297.4	273.6
85°	82.1	52.3	22.6	22.6	25.0	38.1	74.9	133.2	170.1	204.6	148.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	52.3	77.3	69.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1817.8	1794.0	1786.8	1766.6	1764.2	1745.2	1738.1	1738.1	1746.4	1746.4	1754.7
5°	1698.8	1669.1	1652.4	1628.6	1622.7	1608.4	1598.9	1600.1	1610.8	1617.9	1632.2
7.5°	1594.1	1573.9	1562.0	1551.3	1548.9	1546.5	1535.8	1534.6	1538.2	1548.9	1559.6
10°	1550.1	1535.8	1539.4	1547.7	1560.8	1567.9	1558.4	1553.7	1550.1	1557.2	1566.8
12.5°	1592.9	1578.7	1585.8	1600.1	1617.9	1625.0	1621.5	1620.3	1623.9	1651.2	1671.4
15°	1686.9	1659.5	1650.0	1656.0	1670.3	1677.4	1673.8	1678.6	1701.2	1772.6	1823.7
17.5°	1803.5	1736.9	1698.8	1688.1	1694.0	1700.0	1700.0	1711.9	1751.1	1855.8	1920.1
20°	1866.5	1779.7	1715.5	1689.3	1691.7	1697.6	1697.6	1714.3	1758.3	1870.1	1911.8
22.5°	1849.9	1770.2	1691.7	1663.1	1664.3	1669.1	1669.1	1683.3	1722.6	1821.3	1840.4
25°	1784.5	1714.3	1636.9	1612.0	1614.3	1622.7	1620.3	1628.6	1658.4	1739.3	1750.0
27.5°	1705.9	1644.1	1567.9	1548.9	1559.6	1576.3	1562.0	1563.2	1590.5	1658.4	1659.5
30°	1621.5	1570.3	1502.5	1488.2	1508.5	1516.8	1503.7	1503.7	1531.1	1577.5	1576.3
32.5°	1529.9	1497.8	1449.0	1433.5	1456.1	1469.2	1452.5	1454.9	1476.3	1507.3	1495.4
35°	1444.2	1427.6	1405.0	1394.3	1408.5	1420.4	1409.7	1414.5	1434.7	1443.0	1426.4
37.5°	1362.1	1359.8	1362.1	1362.1	1365.7	1369.3	1362.1	1374.0	1391.9	1381.2	1362.1
40°	1290.8	1300.3	1322.9	1316.9	1313.4	1316.9	1312.2	1332.4	1350.2	1331.2	1308.6
42.5°	1231.3	1249.1	1283.6	1283.6	1276.5	1278.9	1276.5	1301.5	1314.6	1288.4	1263.4
45°	1180.1	1206.3	1250.3	1256.3	1244.4	1244.4	1249.1	1280.1	1284.8	1249.1	1222.9
47.5°	1144.4	1176.6	1226.5	1237.2	1219.4	1218.2	1231.3	1264.6	1264.6	1222.9	1193.2
50°	1119.5	1155.1	1214.6	1228.9	1211.1	1206.3	1227.7	1259.8	1252.7	1202.7	1173.0
52.5°	1102.8	1139.7	1213.4	1233.7	1221.8	1217.0	1238.4	1261.0	1243.2	1189.6	1158.7
55°	1092.1	1132.5	1217.0	1233.7	1220.6	1212.2	1233.7	1253.9	1244.4	1182.5	1152.8
57.5°	1098.0	1138.5	1212.2	1220.6	1205.1	1190.8	1215.8	1244.4	1240.8	1184.9	1155.1
60°	1088.5	1125.4	1186.1	1188.4	1162.3	1139.7	1176.6	1219.4	1219.4	1176.6	1150.4
62.5°	1044.5	1081.4	1134.9	1137.3	1107.6	1082.6	1125.4	1176.6	1175.4	1140.9	1113.5
65°	971.9	1006.4	1067.1	1073.1	1043.3	1017.1	1061.2	1108.7	1112.3	1081.4	1057.6
67.5°	892.2	923.2	968.4	992.2	967.2	939.8	980.3	1025.5	1024.3	987.4	962.4
70°	797.1	825.6	867.2	887.5	872.0	845.8	882.7	906.5	895.8	878.0	861.3
72.5°	703.1	730.4	769.7	769.7	753.0	728.1	738.8	781.6	794.7	781.6	770.9
75°	604.3	628.1	655.5	661.4	624.6	579.4	629.3	666.2	681.7	675.7	662.6
77.5°	503.2	521.1	561.5	550.8	481.8	458.0	498.5	553.2	563.9	560.3	542.5
80°	387.8	398.5	441.4	419.9	366.4	350.9	368.8	411.6	414.0	402.1	379.5
82.5°	260.5	274.8	303.4	261.7	260.5	246.3	232.0	236.7	258.2	255.8	240.3
85°	133.2	140.4	167.7	157.0	134.4	116.6	110.6	117.8	105.9	96.4	83.3
87.5°	55.9	60.7	83.3	46.4	14.3	0.0	0.0	7.1	10.7	15.5	16.7
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°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1773.8	1786.8	1819.0	1859.4	1898.7	1939.1	1983.1	2010.5	2043.8	2086.6	2087.8
5°	1650.0	1679.8	1726.2	1788.0	1852.3	1926.0	2011.7	2083.1	2168.7	2236.5	2263.9
7.5°	1573.9	1616.7	1675.0	1753.5	1838.0	1929.6	2041.4	2161.6	2302.0	2392.4	2445.9
10°	1581.0	1646.5	1704.8	1771.4	1847.5	1946.2	2090.2	2249.6	2422.1	2541.1	2607.7
12.5°	1708.3	1777.3	1766.6	1763.0	1814.2	1934.4	2129.5	2338.8	2549.4	2668.4	2748.1
15°	1868.9	1895.1	1794.0	1717.8	1748.8	1891.5	2150.9	2418.5	2655.3	2800.4	2878.9
17.5°	1951.0	1898.7	1776.1	1661.9	1653.6	1826.1	2161.6	2499.4	2774.2	2919.4	3002.6
20°	1912.9	1836.8	1733.3	1625.0	1565.6	1736.9	2155.6	2563.7	2882.5	3044.3	3112.1
22.5°	1830.9	1764.2	1683.3	1579.8	1494.2	1639.3	2140.2	2627.9	2978.9	3141.8	3201.3
25°	1741.6	1691.7	1625.0	1534.6	1453.7	1553.7	2129.5	2713.6	3089.5	3245.3	3283.4
27.5°	1652.4	1615.5	1560.8	1490.6	1444.2	1494.2	2133.0	2825.4	3232.3	3379.8	3364.3
30°	1564.4	1532.3	1494.2	1463.3	1443.0	1479.9	2123.5	2944.4	3389.3	3526.1	3434.5
32.5°	1481.1	1451.4	1427.6	1432.3	1444.2	1485.9	2074.7	3052.6	3533.2	3649.8	3510.6
35°	1409.7	1378.8	1378.8	1395.4	1439.5	1465.6	1948.6	3137.1	3692.6	3809.2	3618.9
37.5°	1343.1	1315.7	1333.6	1360.9	1402.6	1410.9	1786.8	3219.2	3924.6	4034.1	3786.6
40°	1284.8	1257.4	1289.6	1324.1	1345.5	1341.9	1622.7	3333.4	4198.2	4311.3	4009.1
42.5°	1238.4	1213.4	1242.0	1286.0	1289.6	1293.1	1502.5	3442.8	4515.9	4659.8	4392.1
45°	1200.3	1182.5	1196.8	1240.8	1240.8	1295.5	1427.6	3534.4	4994.1	5248.7	5095.2
47.5°	1170.6	1159.9	1167.0	1181.3	1205.1	1338.3	1380.0	3604.6	5864.9	6364.6	6209.9
50°	1154.0	1143.2	1152.8	1123.0	1194.4	1359.8	1364.5	3658.1	7012.9	7795.7	7604.2
52.5°	1139.7	1136.1	1142.1	1073.1	1218.2	1345.5	1352.6	3586.8	7782.6	9204.2	9393.4
55°	1134.9	1137.3	1108.7	1036.2	1246.7	1297.9	1316.9	3076.4	7992.0	10418.9	11593.0
57.5°	1137.3	1130.2	1057.6	1039.7	1247.9	1202.7	1368.1	2194.9	7687.4	10947.1	13745.1
60°	1129.0	1093.3	995.7	1071.9	1193.2	1090.9	1331.2	1431.1	6884.4	10541.4	13870.0
62.5°	1092.1	1039.7	942.2	1089.7	1095.7	1024.3	1208.7	1102.8	5813.8	9673.0	12666.1
65°	1038.6	968.4	897.0	1052.8	996.9	993.3	908.9	883.9	4675.3	8639.2	11524.0
67.5°	950.5	880.3	863.7	968.4	897.0	880.3	730.4	732.8	3730.7	7537.6	10376.0
70°	850.6	780.4	793.5	875.6	798.2	731.6	591.3	610.3	2830.2	6280.1	8828.3
72.5°	785.2	691.2	692.4	770.9	701.9	592.4	486.6	503.2	1796.4	4733.6	7018.9
75°	662.6	609.1	582.9	624.6	596.0	461.6	409.2	405.7	1064.7	3392.9	5255.8
77.5°	553.2	511.5	498.5	515.1	444.9	341.4	329.5	323.6	603.1	2173.5	3444.0
80°	400.9	390.2	389.0	397.3	342.6	251.0	251.0	252.2	324.8	1180.1	1941.5
82.5°	254.6	278.4	246.3	273.6	233.2	178.4	166.5	189.2	186.8	503.2	818.5
85°	105.9	145.1	135.6	143.9	110.6	97.6	104.7	113.0	108.3	193.9	318.8
87.5°	20.2	23.8	26.2	25.0	25.0	30.9	34.5	41.6	41.6	55.9	96.4
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°	358°	360°
0°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	2133.0	2167.5	2160.4	2175.9	2155.6	2162.8	2122.3	2111.6	2104.5	2106.9
5°	2351.9	2422.1	2435.2	2461.4	2443.5	2443.5	2372.1	2318.6	2299.6	2285.3
7.5°	2574.4	2675.5	2742.1	2749.3	2739.7	2720.7	2617.2	2520.8	2486.3	2456.6
10°	2771.9	2893.2	2968.2	3003.8	2986.0	2956.3	2827.8	2695.7	2654.1	2627.9
12.5°	2922.9	3030.0	3080.0	3103.8	3101.4	3090.7	2986.0	2843.2	2799.2	2758.8
15°	3020.5	3074.0	3055.0	3053.8	3070.5	3113.3	3081.2	2969.3	2918.2	2881.3
17.5°	3083.5	3032.4	2947.9	2908.7	2944.4	3045.5	3119.2	3056.2	3009.8	2969.3
20°	3106.1	2924.1	2801.6	2729.0	2770.7	2917.0	3099.0	3119.2	3080.0	3046.7
22.5°	3080.0	2792.1	2625.5	2539.9	2580.3	2755.2	3039.5	3170.4	3144.2	3112.1
25°	3015.7	2654.1	2454.2	2376.9	2420.9	2599.4	2933.7	3218.0	3219.2	3193.0
27.5°	2936.0	2526.8	2334.1	2261.5	2304.3	2470.9	2830.2	3259.6	3301.2	3291.7
30°	2855.1	2450.7	2277.0	2225.8	2257.9	2405.5	2724.3	3302.4	3385.7	3402.4
32.5°	2818.3	2487.5	2411.4	2434.0	2392.4	2443.5	2686.2	3363.1	3488.0	3515.4
35°	2867.0	2814.7	3007.4	3096.6	2949.1	2755.2	2735.0	3454.7	3632.0	3672.4
37.5°	3103.8	3515.4	3803.3	4117.3	3861.6	3434.5	2976.5	3610.6	3837.8	3902.0
40°	3618.9	4126.9	4646.7	5052.4	4665.8	4091.2	3435.7	3842.5	4120.9	4179.2
42.5°	4104.3	4700.3	5416.4	5941.1	5439.0	4627.7	3930.6	4232.7	4494.5	4526.6
45°	4580.1	5263.0	6347.9	7077.2	6395.5	5138.1	4436.2	4891.8	5089.3	5090.5
47.5°	5138.1	5897.0	7516.1	8554.7	7664.8	5703.1	4910.8	5935.1	6209.9	6075.5
50°	5805.4	6527.6	8718.9	10273.7	9212.6	6397.9	5514.0	7206.8	7581.6	7429.3
52.5°	6698.9	7222.3	10044.1	11949.9	10899.5	7189.0	6388.4	8886.6	9010.3	8726.0
55°	7956.3	8225.2	11745.3	14019.9	12782.7	8163.3	7667.2	10994.6	10648.5	9833.6
57.5°	10819.8	9812.1	13929.5	16381.3	14913.3	9933.5	10470.0	13319.2	12087.9	10713.9
60°	13215.7	11739.4	15950.7	18724.9	16739.4	11884.5	13101.5	13723.7	12034.4	10616.3
62.5°	12407.9	12230.7	16679.9	18983.1	17362.8	12844.5	12612.6	12704.2	11249.2	9968.0
65°	10886.4	11282.5	16029.2	17758.9	16671.6	11984.4	11408.6	11762.0	10351.1	9060.3
67.5°	9988.2	10279.7	14871.7	15799.6	15415.3	11054.1	10472.4	10216.6	8956.8	7859.9
70°	9069.8	9311.3	13246.6	13340.6	13456.0	9507.6	8563.0	7801.7	6676.3	5908.9
72.5°	7837.3	7850.4	11192.1	10647.3	10866.2	7440.0	6892.8	5832.8	4859.7	4163.7
75°	6575.1	6215.9	8859.2	7442.4	7881.4	5787.6	5723.4	4395.7	3665.3	3094.3
77.5°	5013.1	4593.2	6471.6	4894.2	5535.4	3854.4	4302.9	2981.2	2579.1	2059.3
80°	3365.5	3103.8	3576.1	2762.3	3621.3	2656.5	2806.4	1689.3	1464.4	1136.1
82.5°	1774.9	1515.6	2210.3	1638.1	2184.2	1459.7	1052.8	522.3	444.9	359.3
85°	687.6	795.9	1083.8	582.9	847.0	521.1	304.5	129.7	108.3	82.1
87.5°	133.2	205.8	113.0	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)