

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: P637547

Luminaire Tested: GWS-SA4D-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637547
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-SA4D-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16906.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

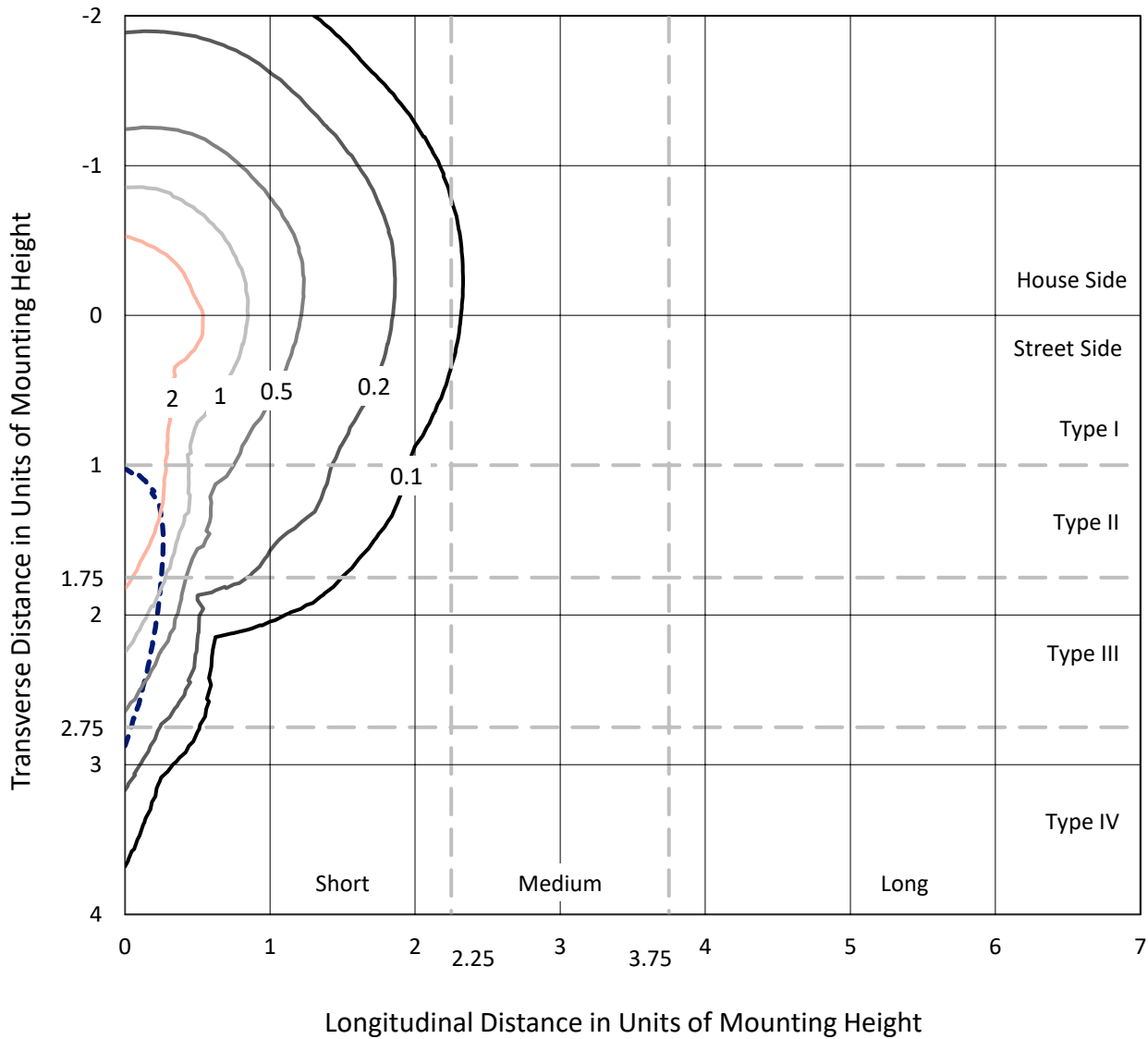
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

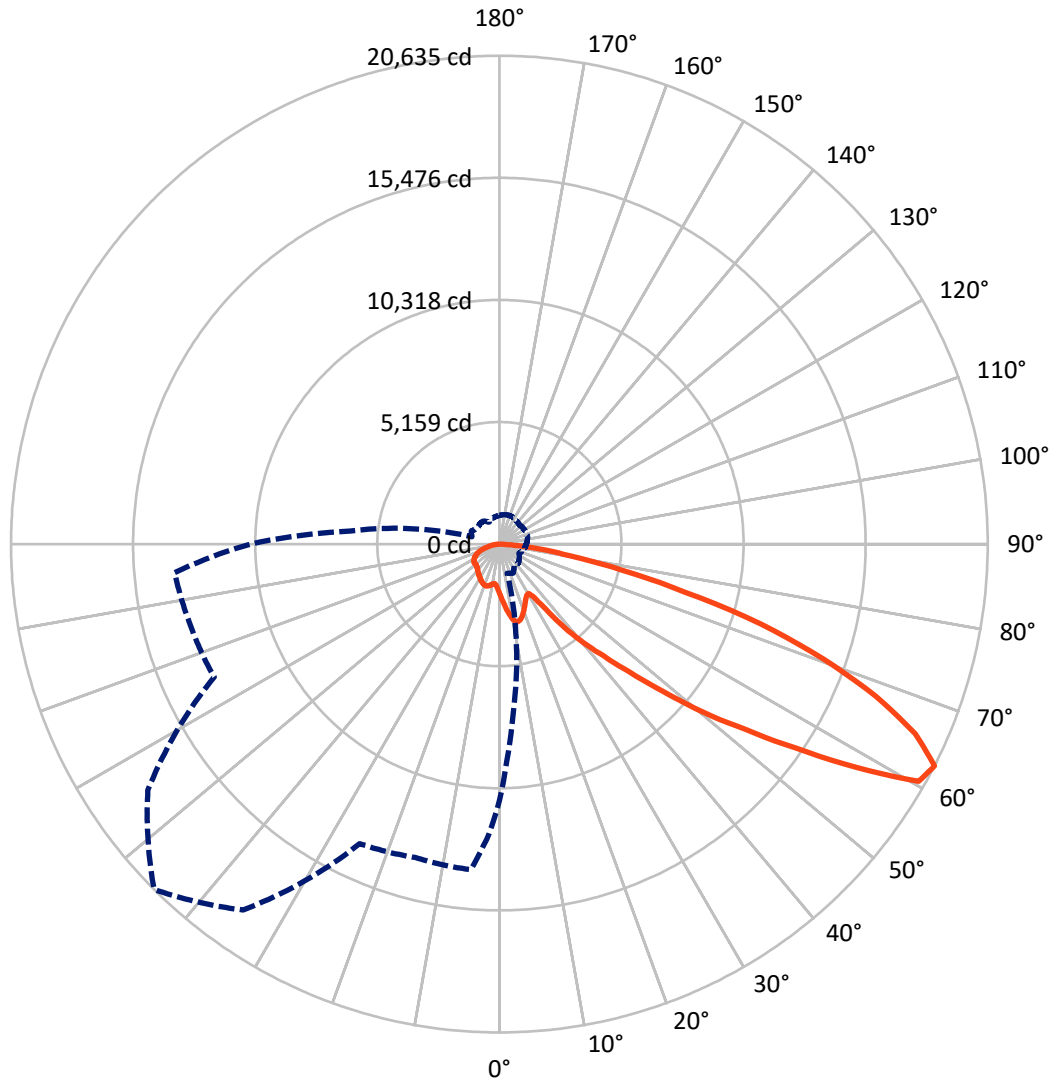
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	4042.3	0.0	4042.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12864.0	0.0	12864.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	16906.3	0.0	16906.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.2
10°-20°	674.9	4.0
20°-30°	1062.4	6.3
30°-40°	1456.2	8.6
40°-50°	2272.2	13.4
50°-60°	3917.7	23.2
60°-70°	4540.1	26.9
70°-80°	2396.5	14.2
80°-90°	378.6	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°	16906.3	100.0
0°-180°	16906.3	100.0

Coefficient of Utilization



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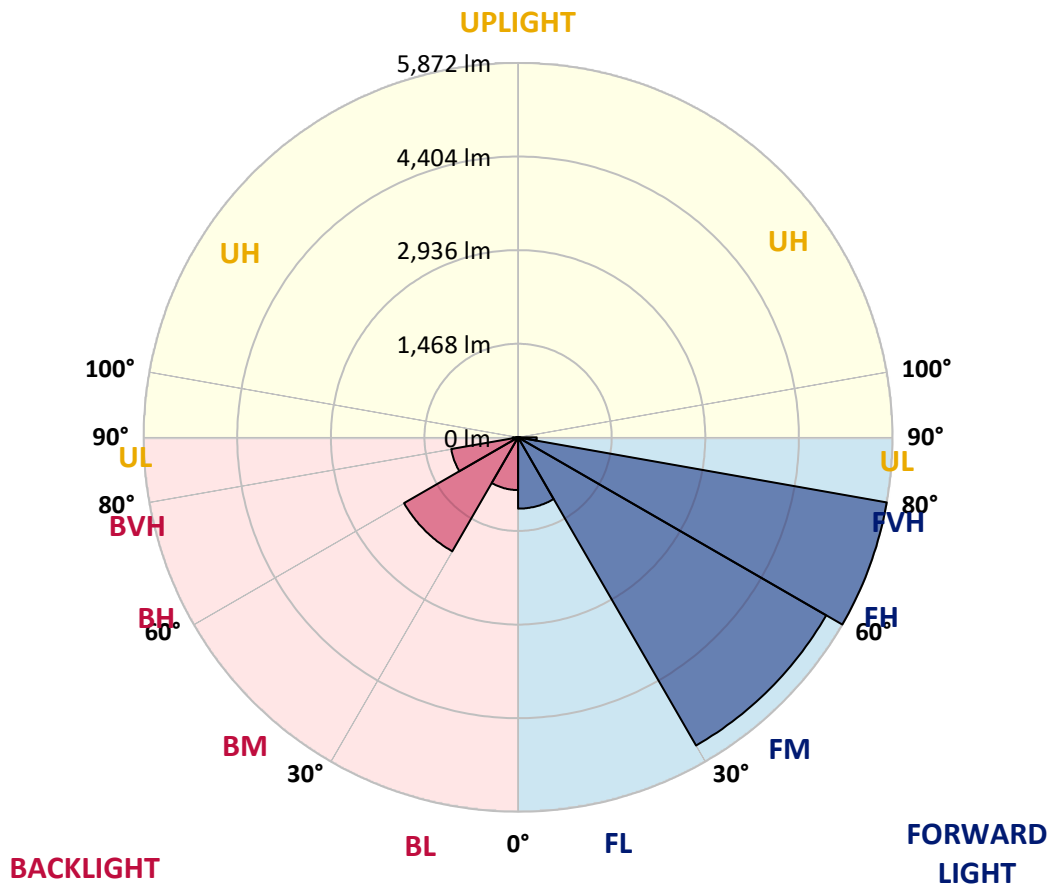
CATALOG NUMBER: GWS-SA4D-722-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.1	6.6			
FM (30°-60°)	5581.4	33.0			
FH (60°-80°)	5872.3	34.7			G3/7500
FVH (80°-90°)	292.2	1.7			G3/500
BL (0°-30°)	826.8	4.9	B2/1000		
BM (30°-60°)	2064.8	12.2	B2/2500		
BH (60°-80°)	1064.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	86.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2290.2	2281.2	2268.2	2224.3	2197.1	2166.1	2133.7	2096.2	2053.6	2023.8	1994.1
5°	2484.2	2470.0	2438.9	2334.2	2261.8	2182.9	2116.9	2041.9	1968.2	1917.8	1867.3
7.5°	2670.4	2652.3	2604.4	2444.1	2326.4	2212.6	2113.0	2004.4	1894.5	1819.5	1760.0
10°	2856.6	2819.1	2758.3	2548.8	2393.7	2261.8	2148.0	2014.8	1868.6	1766.5	1703.1
12.5°	2998.9	2963.9	2898.0	2644.5	2460.9	2295.4	2167.4	2044.5	1920.4	1811.7	1747.1
15°	3132.1	3086.8	3011.8	2733.8	2516.5	2294.1	2128.6	2021.2	2003.1	1976.0	1891.9
17.5°	3227.7	3186.4	3108.8	2806.2	2547.5	2254.0	2021.2	1957.9	2039.3	2122.1	2041.9
20°	3311.8	3264.0	3185.1	2856.6	2554.0	2164.8	1890.6	1891.9	2019.9	2133.7	2114.3
22.5°	3382.9	3329.9	3260.1	2913.5	2551.4	2040.6	1776.8	1854.4	1982.4	2071.7	2074.2
25°	3470.9	3426.9	3368.7	2997.6	2551.4	1913.9	1694.1	1809.1	1919.1	1994.1	1991.5
27.5°	3578.2	3548.5	3500.6	3125.6	2574.7	1807.9	1647.5	1751.0	1837.6	1902.3	1901.0
30°	3698.5	3671.3	3635.1	3261.4	2614.8	1729.0	1621.6	1678.5	1741.9	1793.6	1793.6
32.5°	3821.3	3811.0	3772.2	3370.0	2583.8	1704.4	1599.7	1606.1	1639.7	1682.4	1678.5
35°	3992.0	3981.7	3932.5	3454.1	2449.3	1669.5	1564.7	1532.4	1536.3	1563.4	1572.5
37.5°	4241.6	4226.1	4153.7	3552.3	2246.2	1581.5	1507.8	1454.8	1443.2	1454.8	1471.6
40°	4542.9	4519.6	4421.3	3685.5	2012.2	1462.6	1418.6	1374.6	1355.2	1359.1	1378.5
42.5°	4920.5	4871.4	4730.4	3826.5	1780.7	1357.8	1319.0	1291.9	1269.9	1267.3	1304.8
45°	5533.5	5399.0	5175.3	3951.9	1585.4	1302.2	1229.8	1210.4	1192.3	1202.6	1246.6
47.5°	6604.2	6355.9	5920.1	4059.3	1466.5	1303.5	1158.7	1138.0	1136.7	1157.4	1206.5
50°	8075.8	7717.6	7045.2	4131.7	1404.4	1319.0	1116.0	1082.4	1107.0	1127.6	1174.2
52.5°	9485.4	8938.4	8137.9	4130.4	1377.2	1321.6	1127.6	1030.7	1107.0	1112.1	1156.1
55°	10689.3	9698.8	8432.8	3706.2	1338.4	1311.3	1172.9	990.6	1092.7	1112.1	1147.0
57.5°	11646.3	10182.4	8410.8	2993.7	1456.1	1254.4	1200.1	981.5	1051.3	1114.7	1154.8
60°	11540.2	9961.3	7868.9	1837.6	1444.5	1153.5	1196.2	998.3	981.5	1079.8	1145.7
62.5°	10835.5	9168.6	6936.6	1275.1	1356.5	1095.3	1132.8	1028.1	916.9	1029.4	1101.8
65°	9848.8	8145.7	5780.5	977.6	1123.8	1097.9	1025.5	1007.4	860.0	949.2	1026.8
67.5°	8544.0	6877.1	4563.6	774.6	783.7	950.5	931.1	894.9	806.9	878.1	947.9
70°	6423.2	5018.8	3139.8	623.3	593.6	794.0	836.7	804.4	755.2	775.9	849.6
72.5°	4526.1	3276.9	1719.9	494.0	457.8	610.4	726.8	721.6	667.3	682.8	755.2
75°	3363.5	2318.7	1074.6	390.5	372.4	437.1	609.1	624.6	579.3	597.4	653.1
77.5°	2238.5	1501.4	597.4	289.7	289.7	319.4	453.9	526.3	492.7	506.9	545.7
80°	1235.0	764.3	298.7	190.1	195.3	219.8	331.1	378.9	380.2	415.1	425.5
82.5°	390.5	243.1	133.2	111.2	104.7	125.4	213.4	271.6	253.5	323.3	297.4
85°	89.2	56.9	24.6	24.6	27.2	41.4	81.5	144.8	184.9	222.4	161.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	56.9	84.1	75.0
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°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	1976.0	1950.1	1942.3	1920.4	1917.8	1897.1	1889.3	1889.3	1898.4	1898.4	1907.4
5°	1846.6	1814.3	1796.2	1770.3	1763.9	1748.4	1738.0	1739.3	1751.0	1758.7	1774.2
7.5°	1732.8	1710.9	1697.9	1686.3	1683.7	1681.1	1669.5	1668.2	1672.1	1683.7	1695.3
10°	1685.0	1669.5	1673.4	1682.4	1696.6	1704.4	1694.1	1688.9	1685.0	1692.8	1703.1
12.5°	1731.6	1716.0	1723.8	1739.3	1758.7	1766.5	1762.6	1761.3	1765.2	1794.9	1816.9
15°	1833.7	1804.0	1793.6	1800.1	1815.6	1823.4	1819.5	1824.7	1849.2	1926.8	1982.4
17.5°	1960.4	1888.0	1846.6	1835.0	1841.5	1847.9	1847.9	1860.9	1903.5	2017.3	2087.2
20°	2029.0	1934.6	1864.7	1836.3	1838.9	1845.4	1845.4	1863.5	1911.3	2032.9	2078.1
22.5°	2010.9	1924.2	1838.9	1807.9	1809.1	1814.3	1814.3	1829.8	1872.5	1979.8	2000.5
25°	1939.8	1863.5	1779.4	1752.2	1754.8	1763.9	1761.3	1770.3	1802.7	1890.6	1902.3
27.5°	1854.4	1787.2	1704.4	1683.7	1695.3	1713.4	1697.9	1699.2	1729.0	1802.7	1804.0
30°	1762.6	1707.0	1633.3	1617.8	1639.7	1648.8	1634.6	1634.6	1664.3	1714.7	1713.4
32.5°	1663.0	1628.1	1575.1	1558.3	1582.8	1597.1	1579.0	1581.5	1604.8	1638.4	1625.5
35°	1569.9	1551.8	1527.2	1515.6	1531.1	1544.0	1532.4	1537.6	1559.6	1568.6	1550.5
37.5°	1480.7	1478.1	1480.7	1480.7	1484.6	1488.4	1480.7	1493.6	1513.0	1501.4	1480.7
40°	1403.1	1413.4	1438.0	1431.5	1427.7	1431.5	1426.4	1448.3	1467.7	1447.1	1422.5
42.5°	1338.4	1357.8	1395.3	1395.3	1387.6	1390.2	1387.6	1414.7	1429.0	1400.5	1373.3
45°	1282.8	1311.3	1359.1	1365.6	1352.7	1352.7	1357.8	1391.4	1396.6	1357.8	1329.4
47.5°	1244.0	1278.9	1333.3	1344.9	1325.5	1324.2	1338.4	1374.6	1374.6	1329.4	1297.0
50°	1216.9	1255.7	1320.3	1335.8	1316.4	1311.3	1334.6	1369.5	1361.7	1307.4	1275.1
52.5°	1198.8	1238.9	1319.0	1341.0	1328.1	1322.9	1346.2	1370.8	1351.4	1293.2	1259.5
55°	1187.1	1231.1	1322.9	1341.0	1326.8	1317.7	1341.0	1363.0	1352.7	1285.4	1253.1
57.5°	1193.6	1237.6	1317.7	1326.8	1310.0	1294.5	1321.6	1352.7	1348.8	1288.0	1255.7
60°	1183.2	1223.3	1289.3	1291.9	1263.4	1238.9	1278.9	1325.5	1325.5	1278.9	1250.5
62.5°	1135.4	1175.5	1233.7	1236.3	1203.9	1176.8	1223.3	1278.9	1277.7	1240.1	1210.4
65°	1056.5	1094.0	1160.0	1166.4	1134.1	1105.7	1153.5	1205.2	1209.1	1175.5	1149.6
67.5°	969.9	1003.5	1052.6	1078.5	1051.3	1021.6	1065.6	1114.7	1113.4	1073.3	1046.2
70°	866.4	897.5	942.7	964.7	947.9	919.4	959.5	985.4	973.8	954.4	936.3
72.5°	764.3	794.0	836.7	836.7	818.6	791.4	803.1	849.6	863.8	849.6	838.0
75°	656.9	682.8	712.5	719.0	678.9	629.8	684.1	724.2	741.0	734.5	720.3
77.5°	547.0	566.4	610.4	598.7	523.7	497.9	541.8	601.3	613.0	609.1	589.7
80°	421.6	433.2	479.8	456.5	398.3	381.5	400.9	447.4	450.0	437.1	412.5
82.5°	283.2	298.7	329.8	284.5	283.2	267.7	252.2	257.3	280.6	278.0	261.2
85°	144.8	152.6	182.3	170.7	146.1	126.7	120.3	128.0	115.1	104.7	90.5
87.5°	60.8	66.0	90.5	50.4	15.5	0.0	0.0	7.8	11.6	16.8	18.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	1928.1	1942.3	1977.3	2021.2	2063.9	2107.9	2155.7	2185.5	2221.7	2268.2	2269.5
5°	1793.6	1826.0	1876.4	1943.6	2013.5	2093.6	2186.7	2264.3	2357.4	2431.2	2460.9
7.5°	1710.9	1757.4	1820.8	1906.1	1997.9	2097.5	2219.1	2349.7	2502.3	2600.6	2658.8
10°	1718.6	1789.7	1853.1	1925.5	2008.3	2115.6	2272.1	2445.4	2632.9	2762.2	2834.6
12.5°	1857.0	1932.0	1920.4	1916.5	1972.1	2102.7	2314.8	2542.4	2771.3	2900.6	2987.2
15°	2031.6	2060.0	1950.1	1867.3	1901.0	2056.1	2338.0	2629.0	2886.4	3044.1	3129.5
17.5°	2120.8	2063.9	1930.7	1806.6	1797.5	1985.0	2349.7	2716.9	3015.7	3173.4	3264.0
20°	2079.4	1996.7	1884.1	1766.5	1701.8	1888.0	2343.2	2786.8	3133.3	3309.2	3382.9
22.5°	1990.2	1917.8	1829.8	1717.3	1624.2	1782.0	2326.4	2856.6	3238.1	3415.3	3479.9
25°	1893.2	1838.9	1766.5	1668.2	1580.3	1688.9	2314.8	2949.7	3358.4	3527.8	3569.1
27.5°	1796.2	1756.1	1696.6	1620.3	1569.9	1624.2	2318.7	3071.3	3513.5	3673.9	3657.1
30°	1700.5	1665.6	1624.2	1590.6	1568.6	1608.7	2308.3	3200.6	3684.2	3833.0	3733.4
32.5°	1610.0	1577.7	1551.8	1557.0	1569.9	1615.2	2255.3	3318.3	3840.7	3967.4	3816.1
35°	1532.4	1498.8	1498.8	1516.9	1564.7	1593.2	2118.2	3410.1	4014.0	4140.7	3933.8
37.5°	1460.0	1430.2	1449.6	1479.4	1524.6	1533.7	1942.3	3499.3	4266.2	4385.1	4116.2
40°	1396.6	1366.9	1401.8	1439.3	1462.6	1458.7	1763.9	3623.5	4563.6	4686.4	4358.0
42.5°	1346.2	1319.0	1350.1	1397.9	1401.8	1405.7	1633.3	3742.4	4908.9	5065.3	4774.4
45°	1304.8	1285.4	1300.9	1348.8	1348.8	1408.3	1551.8	3842.0	5428.7	5705.5	5538.6
47.5°	1272.5	1260.8	1268.6	1284.1	1310.0	1454.8	1500.1	3918.3	6375.3	6918.5	6750.3
50°	1254.4	1242.7	1253.1	1220.8	1298.3	1478.1	1483.3	3976.5	7623.2	8474.1	8265.9
52.5°	1238.9	1235.0	1241.4	1166.4	1324.2	1462.6	1470.3	3898.9	8459.9	10005.2	10210.9
55°	1233.7	1236.3	1205.2	1126.4	1355.2	1410.8	1431.5	3344.1	8687.5	11325.6	12601.9
57.5°	1236.3	1228.5	1149.6	1130.2	1356.5	1307.4	1487.1	2385.9	8356.5	11899.7	14941.3
60°	1227.2	1188.4	1082.4	1165.1	1297.0	1185.8	1447.1	1555.7	7483.6	11458.8	15077.1
62.5°	1187.1	1130.2	1024.2	1184.5	1191.0	1113.4	1313.9	1198.8	6319.7	10514.8	13768.4
65°	1128.9	1052.6	975.0	1144.5	1083.7	1079.8	988.0	960.8	5082.2	9391.0	12526.9
67.5°	1033.2	956.9	938.8	1052.6	975.0	956.9	794.0	796.6	4055.4	8193.5	11279.0
70°	924.6	848.3	862.5	951.8	867.7	795.3	642.7	663.4	3076.4	6826.6	9596.6
72.5°	853.5	751.3	752.6	838.0	763.0	644.0	528.9	547.0	1952.7	5145.5	7629.7
75°	720.3	662.1	633.7	678.9	647.9	501.7	444.9	441.0	1157.4	3688.1	5713.2
77.5°	601.3	556.1	541.8	559.9	483.6	371.1	358.2	351.7	655.6	2362.6	3743.7
80°	435.8	424.2	422.9	431.9	372.4	272.9	272.9	274.2	353.0	1282.8	2110.5
82.5°	276.7	302.6	267.7	297.4	253.5	194.0	181.0	205.6	203.0	547.0	889.7
85°	115.1	157.8	147.4	156.5	120.3	106.0	113.8	122.9	117.7	210.8	346.6
87.5°	22.0	25.9	28.4	27.2	27.2	33.6	37.5	45.3	45.3	60.8	104.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2318.7	2356.2	2348.4	2365.2	2343.2	2351.0	2307.0	2295.4	2287.6	2290.2
5°	2556.6	2632.9	2647.1	2675.6	2656.2	2656.2	2578.6	2520.4	2499.7	2484.2
7.5°	2798.4	2908.3	2980.8	2988.5	2978.2	2957.5	2845.0	2740.2	2702.7	2670.4
10°	3013.1	3145.0	3226.5	3265.3	3245.9	3213.5	3073.9	2930.3	2885.1	2856.6
12.5°	3177.3	3293.7	3348.0	3373.9	3371.3	3359.7	3245.9	3090.7	3042.8	2998.9
15°	3283.4	3341.5	3320.9	3319.6	3337.7	3384.2	3349.3	3227.7	3172.1	3132.1
17.5°	3351.9	3296.3	3204.5	3161.8	3200.6	3310.5	3390.7	3322.2	3271.7	3227.7
20°	3376.5	3178.6	3045.4	2966.5	3011.8	3170.9	3368.7	3390.7	3348.0	3311.8
22.5°	3348.0	3035.1	2854.0	2760.9	2804.9	2995.0	3304.0	3446.3	3417.8	3382.9
25°	3278.2	2885.1	2667.8	2583.8	2631.6	2825.6	3189.0	3498.0	3499.3	3470.9
27.5°	3191.5	2746.7	2537.2	2458.3	2504.9	2685.9	3076.4	3543.3	3588.5	3578.2
30°	3103.6	2663.9	2475.1	2419.5	2454.4	2614.8	2961.4	3589.8	3680.4	3698.5
32.5°	3063.5	2704.0	2621.3	2645.8	2600.6	2656.2	2920.0	3655.8	3791.6	3821.3
35°	3116.5	3059.6	3269.1	3366.1	3205.8	2995.0	2973.0	3755.4	3948.0	3992.0
37.5°	3373.9	3821.3	4134.3	4475.7	4197.6	3733.4	3235.5	3924.8	4171.8	4241.6
40°	3933.8	4486.0	5051.1	5492.1	5071.8	4447.2	3734.7	4176.9	4479.5	4542.9
42.5°	4461.4	5109.3	5887.8	6458.1	5912.4	5030.4	4272.6	4601.1	4885.6	4920.5
45°	4978.7	5721.0	6900.4	7693.1	6952.1	5585.2	4822.2	5317.5	5532.2	5533.5
47.5°	5585.2	6410.2	8170.2	9299.2	8331.9	6199.5	5338.2	6451.6	6750.3	6604.2
50°	6310.7	7095.6	9477.6	11167.8	10014.3	6954.7	5993.8	7834.0	8241.4	8075.8
52.5°	7281.8	7850.8	10918.2	12989.9	11848.0	7814.6	6944.3	9660.0	9794.5	9485.4
55°	8648.7	8941.0	12767.5	15240.0	13895.1	8873.7	8334.5	11951.5	11575.2	10689.3
57.5°	11761.4	10666.1	15141.7	17806.9	16211.2	10798.0	11381.2	14478.3	13139.9	11646.3
60°	14365.8	12761.0	17338.8	20354.5	18196.2	12918.8	14241.7	14918.0	13081.7	11540.2
62.5°	13487.8	13295.1	18131.5	20635.1	18873.8	13962.3	13710.2	13809.8	12228.2	10835.5
65°	11833.8	12264.4	17424.2	19304.4	18122.5	13027.4	12401.5	12785.6	11251.9	9848.8
67.5°	10857.4	11174.3	16165.9	17174.6	16756.9	12016.1	11383.8	11105.7	9736.3	8544.0
70°	9859.1	10121.6	14399.4	14501.6	14627.0	10335.0	9308.2	8480.6	7257.3	6423.2
72.5°	8519.4	8533.6	12166.1	11573.9	11811.8	8087.5	7492.6	6340.4	5282.6	4526.1
75°	7147.3	6756.8	9630.2	8090.1	8567.2	6291.3	6221.4	4778.3	3984.3	3363.5
77.5°	5449.4	4992.9	7034.8	5320.1	6017.1	4189.9	4677.4	3240.7	2803.6	2238.5
80°	3658.4	3373.9	3887.3	3002.7	3936.4	2887.6	3050.6	1836.3	1591.9	1235.0
82.5°	1929.4	1647.5	2402.7	1780.7	2374.3	1586.7	1144.5	567.7	483.6	390.5
85°	747.5	865.1	1178.1	633.7	920.7	566.4	331.1	141.0	117.7	89.2
87.5°	144.8	223.7	122.9	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)