

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: P637382

Luminaire Tested: GWS-SA4C-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637382
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-SA4C-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18355.2 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

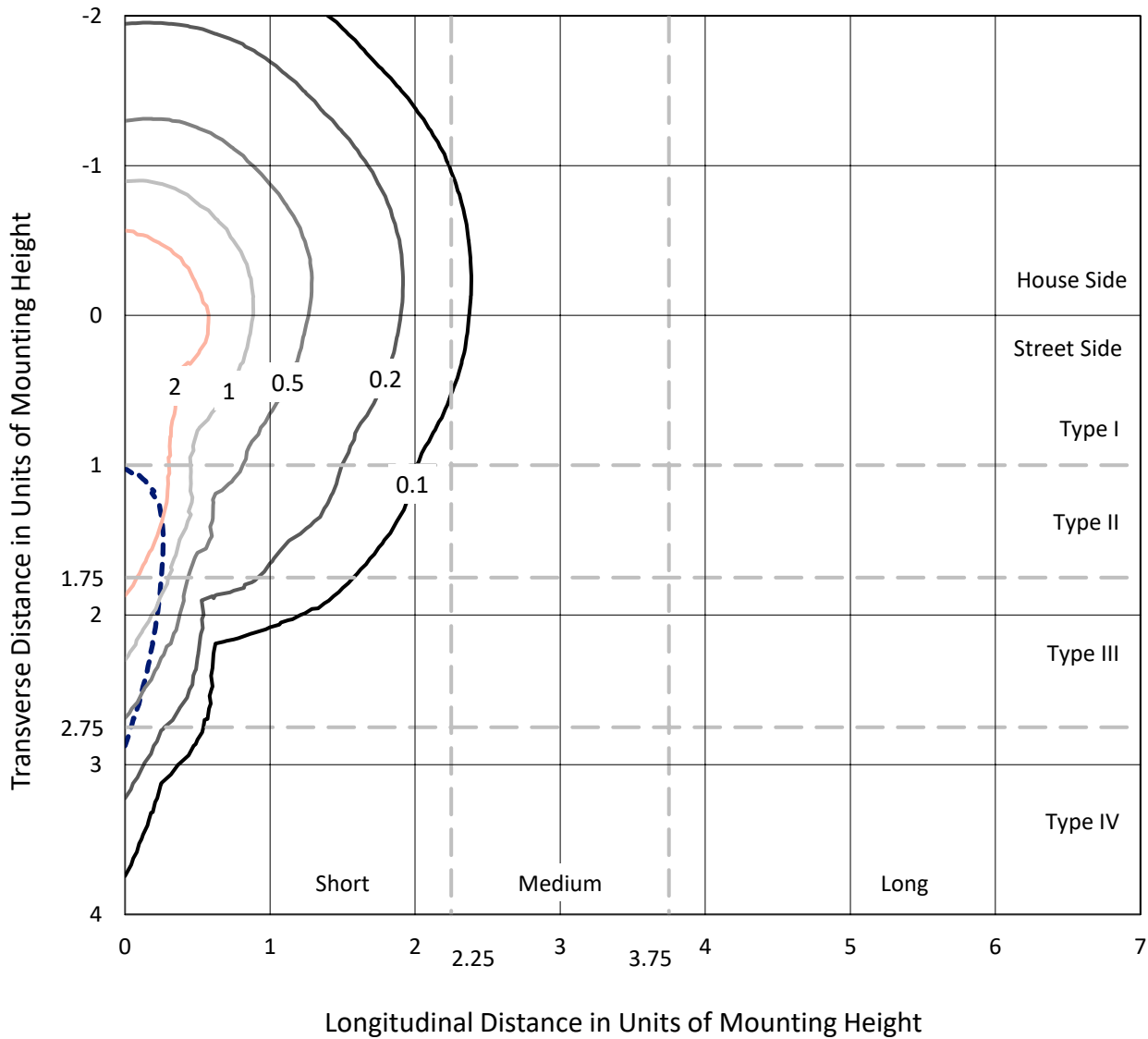
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

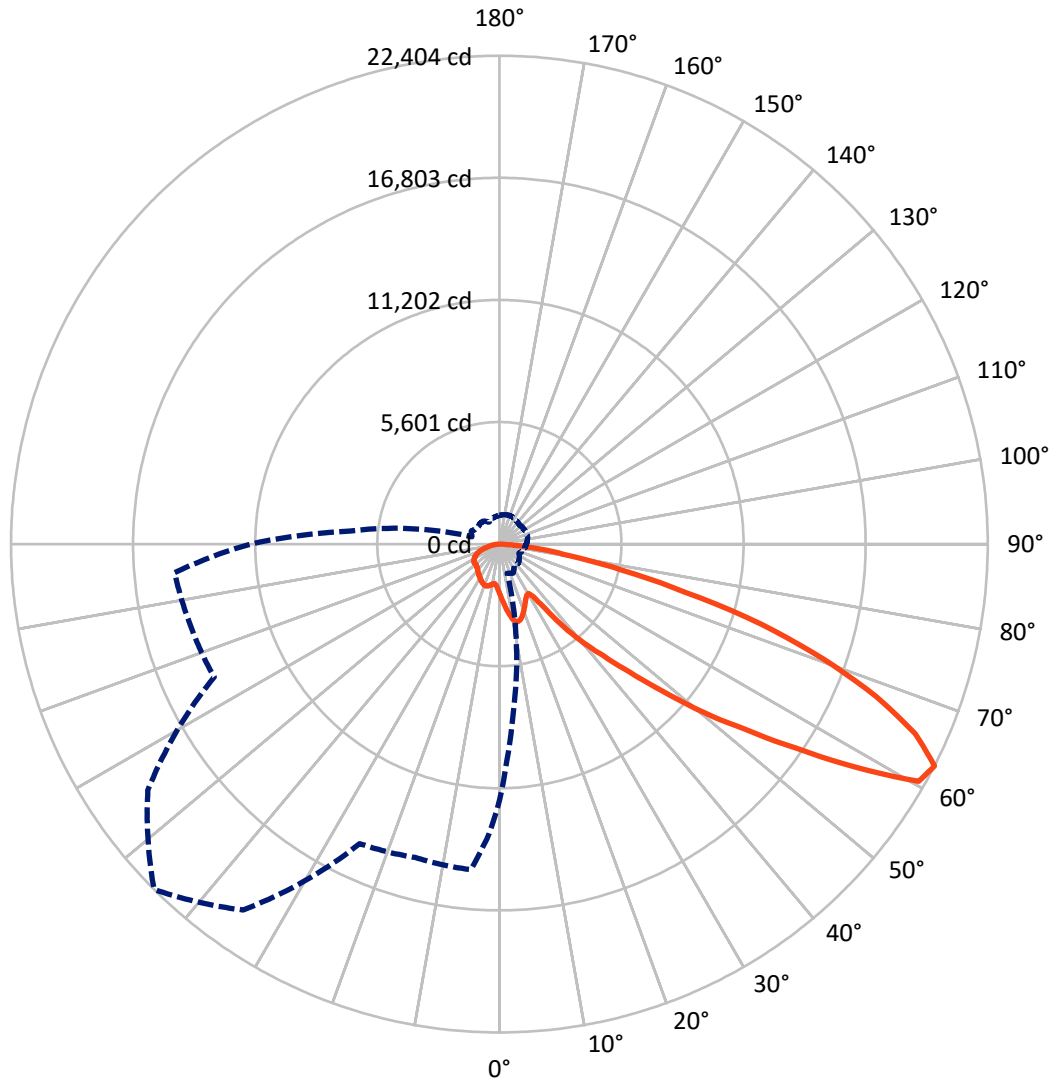
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4388.8	0.0	4388.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	13966.5	0.0	13966.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	18355.2	0.0	18355.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	1.2
10°-20°	732.7	4.0
20°-30°	1153.5	6.3
30°-40°	1581.1	8.6
40°-50°	2466.9	13.4
50°-60°	4253.5	23.2
60°-70°	4929.2	26.9
70°-80°	2601.9	14.2
80°-90°	411.0	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°	18355.2	100.0
0°-180°	18355.2	100.0

Coefficient of Utilization



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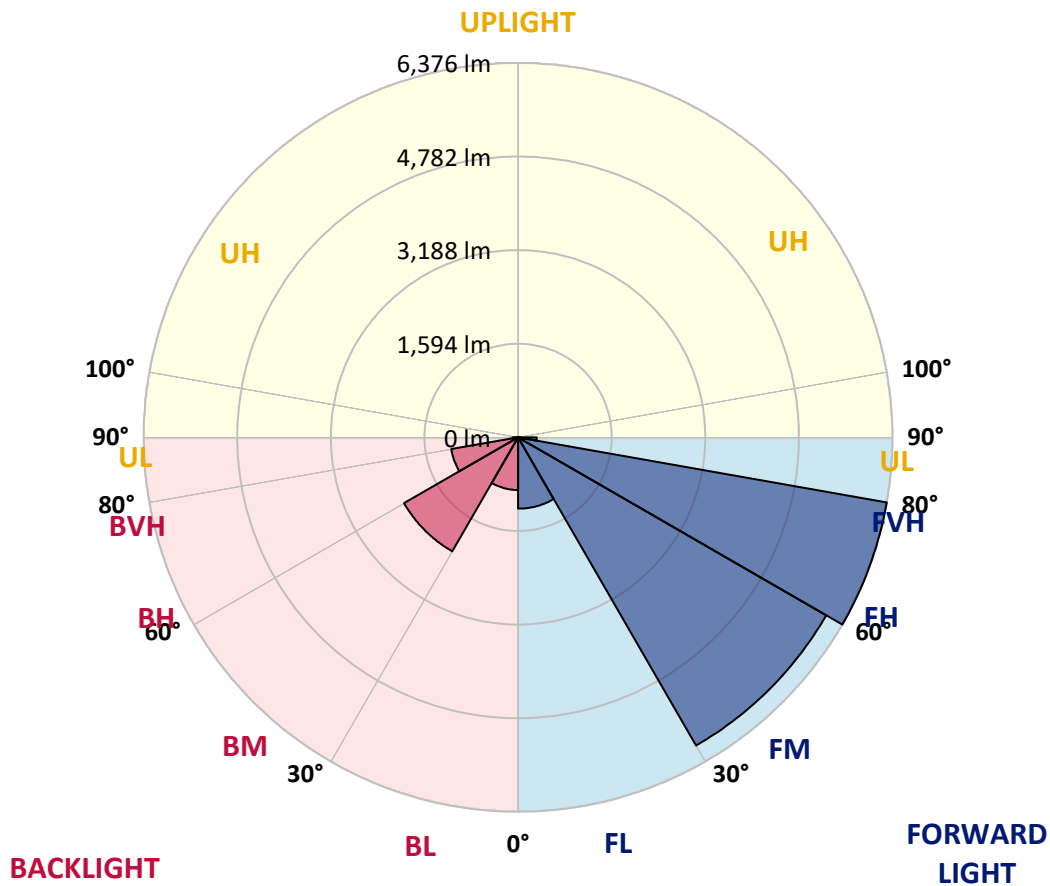
CATALOG NUMBER: GWS-SA4C-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.0	6.6			
FM (30°-60°)	6059.7	33.0			
FH (60°-80°)	6375.5	34.7			G3/7500
FVH (80°-90°)	317.2	1.7			G3/500
BL (0°-30°)	897.7	4.9	B2/1000		
BM (30°-60°)	2241.7	12.2	B2/2500		
BH (60°-80°)	1155.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	93.8	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°	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5
2.5°	2486.5	2476.6	2462.6	2414.9	2385.4	2351.7	2316.6	2275.9	2229.5	2197.3	2165.0
5°	2697.1	2681.6	2647.9	2534.2	2455.6	2369.9	2298.3	2216.9	2136.9	2082.1	2027.4
7.5°	2899.3	2879.6	2827.6	2653.6	2525.8	2402.2	2294.1	2176.2	2056.9	1975.4	1910.8
10°	3101.4	3060.7	2994.7	2767.3	2598.8	2455.6	2332.0	2187.4	2028.8	1917.9	1849.1
12.5°	3255.9	3218.0	3146.4	2871.2	2671.8	2492.1	2353.1	2219.7	2084.9	1967.0	1896.8
15°	3400.5	3351.3	3269.9	2968.0	2732.2	2490.7	2311.0	2194.4	2174.8	2145.3	2054.0
17.5°	3504.4	3459.4	3375.2	3046.7	2765.9	2447.2	2194.4	2125.6	2214.1	2304.0	2216.9
20°	3595.6	3543.7	3458.0	3101.4	2772.9	2350.3	2052.6	2054.0	2193.0	2316.6	2295.5
22.5°	3672.9	3615.3	3539.5	3163.2	2770.1	2215.5	1929.1	2013.3	2152.3	2249.2	2252.0
25°	3768.3	3720.6	3657.4	3254.5	2770.1	2077.9	1839.2	1964.2	2083.5	2165.0	2162.2
27.5°	3884.9	3852.6	3800.6	3393.5	2795.4	1962.8	1788.7	1901.0	1995.1	2065.3	2063.9
30°	4015.4	3985.9	3946.6	3540.9	2838.9	1877.1	1760.6	1822.4	1891.2	1947.3	1947.3
32.5°	4148.8	4137.6	4095.5	3658.8	2805.2	1850.5	1736.7	1743.8	1780.3	1826.6	1822.4
35°	4334.1	4322.9	4269.6	3750.1	2659.2	1812.6	1698.8	1663.7	1667.9	1697.4	1707.3
37.5°	4605.1	4588.3	4509.6	3856.8	2438.7	1717.1	1637.1	1579.5	1566.9	1579.5	1597.7
40°	4932.2	4907.0	4800.3	4001.4	2184.6	1587.9	1540.2	1492.4	1471.4	1475.6	1496.7
42.5°	5342.2	5288.9	5135.8	4154.4	1933.3	1474.2	1432.1	1402.6	1378.7	1375.9	1416.6
45°	6007.7	5861.7	5618.8	4290.6	1721.3	1413.8	1335.2	1314.1	1294.5	1305.7	1353.5
47.5°	7170.2	6900.6	6427.5	4407.1	1592.1	1415.2	1258.0	1235.5	1234.1	1256.6	1309.9
50°	8768.0	8379.0	7649.0	4485.8	1524.7	1432.1	1211.6	1175.1	1201.8	1224.3	1274.8
52.5°	10298.3	9704.4	8835.3	4484.4	1495.3	1434.9	1224.3	1119.0	1201.8	1207.4	1255.2
55°	11605.4	10530.0	9155.5	4023.9	1453.1	1423.7	1273.4	1075.5	1186.4	1207.4	1245.3
57.5°	12644.4	11055.1	9131.6	3250.3	1580.9	1361.9	1302.9	1065.6	1141.4	1210.2	1253.8
60°	12529.3	10815.0	8543.3	1995.1	1568.3	1252.4	1298.7	1083.9	1065.6	1172.3	1243.9
62.5°	11764.1	9954.3	7531.0	1384.3	1472.8	1189.2	1229.9	1116.2	995.4	1117.6	1196.2
65°	10692.8	8843.8	6275.9	1061.4	1220.1	1192.0	1113.4	1093.7	933.7	1030.5	1114.8
67.5°	9276.2	7466.5	4954.7	841.0	850.8	1031.9	1010.9	971.6	876.1	953.3	1029.1
70°	6973.6	5448.9	3408.9	676.7	644.4	862.1	908.4	873.3	819.9	842.4	922.4
72.5°	4914.0	3557.7	1867.3	536.3	497.0	662.7	789.0	783.4	724.5	741.3	819.9
75°	3651.8	2517.4	1166.7	424.0	404.4	474.6	661.3	678.1	629.0	648.6	709.0
77.5°	2430.3	1630.0	648.6	314.5	314.5	346.8	492.8	571.4	534.9	550.4	592.5
80°	1340.8	829.8	324.3	206.4	212.0	238.7	359.4	411.4	412.8	450.7	461.9
82.5°	424.0	264.0	144.6	120.7	113.7	136.2	231.7	294.8	275.2	351.0	322.9
85°	96.9	61.8	26.7	26.7	29.5	44.9	88.5	157.2	200.8	241.5	175.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	61.8	91.3	81.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5
2.5°	2145.3	2117.2	2108.8	2084.9	2082.1	2059.7	2051.2	2051.2	2061.1	2061.1	2070.9
5°	2004.9	1969.8	1950.2	1922.1	1915.1	1898.2	1887.0	1888.4	1901.0	1909.4	1926.3
7.5°	1881.4	1857.5	1843.4	1830.8	1828.0	1825.2	1812.6	1811.2	1815.4	1828.0	1840.6
10°	1829.4	1812.6	1816.8	1826.6	1842.0	1850.5	1839.2	1833.6	1829.4	1837.8	1849.1
12.5°	1880.0	1863.1	1871.5	1888.4	1909.4	1917.9	1913.6	1912.2	1916.5	1948.7	1972.6
15°	1990.9	1958.6	1947.3	1954.4	1971.2	1979.6	1975.4	1981.0	2007.7	2092.0	2152.3
17.5°	2128.5	2049.8	2004.9	1992.3	1999.3	2006.3	2006.3	2020.4	2066.7	2190.2	2266.0
20°	2202.9	2100.4	2024.6	1993.7	1996.5	2003.5	2003.5	2023.2	2075.1	2207.1	2256.2
22.5°	2183.2	2089.1	1996.5	1962.8	1964.2	1969.8	1969.8	1986.7	2033.0	2149.5	2172.0
25°	2106.0	2023.2	1931.9	1902.4	1905.2	1915.1	1912.2	1922.1	1957.2	2052.6	2065.3
27.5°	2013.3	1940.3	1850.5	1828.0	1840.6	1860.3	1843.4	1844.9	1877.1	1957.2	1958.6
30°	1913.6	1853.3	1773.2	1756.4	1780.3	1790.1	1774.7	1774.7	1806.9	1861.7	1860.3
32.5°	1805.5	1767.6	1710.1	1691.8	1718.5	1733.9	1714.3	1717.1	1742.4	1778.9	1764.8
35°	1704.5	1684.8	1658.1	1645.5	1662.3	1676.4	1663.7	1669.4	1693.2	1703.0	1683.4
37.5°	1607.6	1604.8	1607.6	1607.6	1611.8	1616.0	1607.6	1621.6	1642.7	1630.0	1607.6
40°	1523.3	1534.6	1561.2	1554.2	1550.0	1554.2	1548.6	1572.5	1593.5	1571.1	1544.4
42.5°	1453.1	1474.2	1514.9	1514.9	1506.5	1509.3	1506.5	1536.0	1551.4	1520.5	1491.0
45°	1392.8	1423.7	1475.6	1482.6	1468.6	1468.6	1474.2	1510.7	1516.3	1474.2	1443.3
47.5°	1350.6	1388.6	1447.5	1460.2	1439.1	1437.7	1453.1	1492.4	1492.4	1443.3	1408.2
50°	1321.2	1363.3	1433.5	1450.3	1429.3	1423.7	1448.9	1486.8	1478.4	1419.4	1384.3
52.5°	1301.5	1345.0	1432.1	1455.9	1441.9	1436.3	1461.6	1488.2	1467.2	1404.0	1367.5
55°	1288.9	1336.6	1436.3	1455.9	1440.5	1430.7	1455.9	1479.8	1468.6	1395.6	1360.5
57.5°	1295.9	1343.6	1430.7	1440.5	1422.2	1405.4	1434.9	1468.6	1464.4	1398.4	1363.3
60°	1284.7	1328.2	1399.8	1402.6	1371.7	1345.0	1388.6	1439.1	1439.1	1388.6	1357.7
62.5°	1232.7	1276.2	1339.4	1342.2	1307.1	1277.6	1328.2	1388.6	1387.1	1346.4	1314.1
65°	1147.1	1187.8	1259.4	1266.4	1231.3	1200.4	1252.4	1308.5	1312.7	1276.2	1248.2
67.5°	1053.0	1089.5	1142.9	1170.9	1141.4	1109.2	1156.9	1210.2	1208.8	1165.3	1135.8
70°	940.7	974.4	1023.5	1047.4	1029.1	998.2	1041.8	1069.8	1057.2	1036.1	1016.5
72.5°	829.8	862.1	908.4	908.4	888.7	859.2	871.9	922.4	937.9	922.4	909.8
75°	713.2	741.3	773.6	780.6	737.1	683.7	742.7	786.2	804.5	797.5	782.0
77.5°	593.9	615.0	662.7	650.1	568.6	540.5	588.3	652.9	665.5	661.3	640.2
80°	457.7	470.3	520.9	495.6	432.4	414.2	435.2	485.8	488.6	474.6	447.9
82.5°	307.5	324.3	358.0	308.9	307.5	290.6	273.8	279.4	304.7	301.9	283.6
85°	157.2	165.7	198.0	185.3	158.7	137.6	130.6	139.0	125.0	113.7	98.3
87.5°	66.0	71.6	98.3	54.8	16.8	0.0	0.0	8.4	12.6	18.3	19.7
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°	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5
2.5°	2093.4	2108.8	2146.7	2194.4	2240.8	2288.5	2340.5	2372.8	2412.1	2462.6	2464.0
5°	1947.3	1982.4	2037.2	2110.2	2186.0	2273.1	2374.2	2458.4	2559.5	2639.5	2671.8
7.5°	1857.5	1908.0	1976.8	2069.5	2169.2	2277.3	2409.3	2551.1	2716.7	2823.4	2886.6
10°	1865.9	1943.1	2011.9	2090.5	2180.4	2296.9	2466.8	2655.0	2858.5	2998.9	3077.6
12.5°	2016.1	2097.6	2084.9	2080.7	2141.1	2282.9	2513.2	2760.3	3008.8	3149.2	3243.2
15°	2205.7	2236.6	2117.2	2027.4	2063.9	2232.4	2538.4	2854.3	3133.7	3305.0	3397.7
17.5°	2302.6	2240.8	2096.2	1961.4	1951.6	2155.1	2551.1	2949.8	3274.1	3445.4	3543.7
20°	2257.6	2167.8	2045.6	1917.9	1847.7	2049.8	2544.0	3025.6	3401.9	3592.8	3672.9
22.5°	2160.7	2082.1	1986.7	1864.5	1763.4	1934.7	2525.8	3101.4	3515.6	3708.0	3778.2
25°	2055.5	1996.5	1917.9	1811.2	1715.7	1833.6	2513.2	3202.5	3646.2	3830.1	3875.0
27.5°	1950.2	1906.6	1842.0	1759.2	1704.5	1763.4	2517.4	3334.5	3814.7	3988.8	3970.5
30°	1846.3	1808.3	1763.4	1726.9	1703.0	1746.6	2506.1	3474.9	4000.0	4161.4	4053.3
32.5°	1748.0	1712.9	1684.8	1690.4	1704.5	1753.6	2448.6	3602.7	4169.9	4307.5	4143.2
35°	1663.7	1627.2	1627.2	1646.9	1698.8	1729.7	2299.7	3702.3	4358.0	4495.6	4271.0
37.5°	1585.1	1552.8	1573.9	1606.2	1655.3	1665.1	2108.8	3799.2	4631.8	4761.0	4468.9
40°	1516.3	1484.0	1521.9	1562.6	1587.9	1583.7	1915.1	3934.0	4954.7	5088.1	4731.5
42.5°	1461.6	1432.1	1465.8	1517.7	1521.9	1526.1	1773.2	4063.2	5329.6	5499.5	5183.6
45°	1416.6	1395.6	1412.4	1464.4	1464.4	1529.0	1684.8	4171.3	5894.0	6194.4	6013.3
47.5°	1381.5	1368.9	1377.3	1394.2	1422.2	1579.5	1628.6	4254.1	6921.7	7511.4	7328.9
50°	1361.9	1349.2	1360.5	1325.4	1409.6	1604.8	1610.4	4317.3	8276.6	9200.4	8974.3
52.5°	1345.0	1340.8	1347.8	1266.4	1437.7	1587.9	1596.3	4233.0	9184.9	10862.7	11086.0
55°	1339.4	1342.2	1308.5	1222.9	1471.4	1531.8	1554.2	3630.7	9432.0	12296.2	13681.9
57.5°	1342.2	1333.8	1248.2	1227.1	1472.8	1419.4	1614.6	2590.4	9072.6	12919.6	16221.8
60°	1332.4	1290.3	1175.1	1265.0	1408.2	1287.5	1571.1	1689.0	8124.9	12440.8	16369.2
62.5°	1288.9	1227.1	1112.0	1286.1	1293.1	1208.8	1426.5	1301.5	6861.3	11415.9	14948.3
65°	1225.7	1142.9	1058.6	1242.5	1176.5	1172.3	1072.7	1043.2	5517.7	10195.8	13600.5
67.5°	1121.8	1039.0	1019.3	1142.9	1058.6	1039.0	862.1	864.9	4402.9	8895.7	12245.7
70°	1003.9	921.0	936.5	1033.3	942.1	863.5	697.8	720.2	3340.1	7411.7	10419.1
72.5°	926.6	815.7	817.1	909.8	828.4	699.2	574.2	593.9	2120.0	5586.5	8283.6
75°	782.0	718.8	688.0	737.1	703.4	544.8	483.0	478.8	1256.6	4004.2	6202.9
77.5°	652.9	603.7	588.3	607.9	525.1	402.9	388.9	381.9	711.8	2565.1	4064.6
80°	473.1	460.5	459.1	468.9	404.4	296.2	296.2	297.6	383.3	1392.8	2291.3
82.5°	300.5	328.5	290.6	322.9	275.2	210.6	196.6	223.2	220.4	593.9	965.9
85°	125.0	171.3	160.1	169.9	130.6	115.1	123.6	133.4	127.8	228.9	376.3
87.5°	23.9	28.1	30.9	29.5	29.5	36.5	40.7	49.1	49.1	66.0	113.7
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°	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5	2288.5
2.5°	2517.4	2558.1	2549.7	2567.9	2544.0	2552.5	2504.7	2492.1	2483.7	2486.5
5°	2775.7	2858.5	2874.0	2904.9	2883.8	2883.8	2799.6	2736.4	2713.9	2697.1
7.5°	3038.2	3157.6	3236.2	3244.6	3233.4	3210.9	3088.8	2975.1	2934.4	2899.3
10°	3271.3	3414.5	3503.0	3545.1	3524.0	3488.9	3337.3	3181.5	3132.3	3101.4
12.5°	3449.6	3576.0	3634.9	3663.0	3660.2	3647.6	3524.0	3355.6	3303.6	3255.9
15°	3564.7	3627.9	3605.5	3604.1	3623.7	3674.3	3636.3	3504.4	3444.0	3400.5
17.5°	3639.2	3578.8	3479.1	3432.8	3474.9	3594.2	3681.3	3606.9	3552.1	3504.4
20°	3665.8	3451.0	3306.4	3220.8	3269.9	3442.6	3657.4	3681.3	3634.9	3595.6
22.5°	3634.9	3295.2	3098.6	2997.5	3045.3	3251.7	3587.2	3741.6	3710.8	3672.9
25°	3559.1	3132.3	2896.4	2805.2	2857.1	3067.7	3462.3	3797.8	3799.2	3768.3
27.5°	3465.1	2982.1	2754.6	2669.0	2719.5	2916.1	3340.1	3846.9	3896.1	3884.9
30°	3369.6	2892.2	2687.2	2626.9	2664.8	2838.9	3215.2	3897.5	3995.8	4015.4
32.5°	3326.1	2935.8	2845.9	2872.6	2823.4	2883.8	3170.2	3969.1	4116.5	4148.8
35°	3383.6	3321.9	3549.3	3654.6	3480.5	3251.7	3227.8	4077.2	4286.4	4334.1
37.5°	3663.0	4148.8	4488.6	4859.2	4557.4	4053.3	3512.8	4261.1	4529.3	4605.1
40°	4271.0	4870.5	5484.0	5962.8	5506.5	4828.3	4054.7	4534.9	4863.4	4932.2
42.5°	4843.8	5547.2	6392.4	7011.6	6419.1	5461.5	4638.8	4995.4	5304.3	5342.2
45°	5405.4	6211.3	7491.7	8352.4	7547.9	6063.9	5235.5	5773.2	6006.3	6007.7
47.5°	6063.9	6959.6	8870.4	10096.1	9045.9	6730.8	5795.7	7004.5	7328.9	7170.2
50°	6851.5	7703.7	10289.9	12124.9	10872.5	7550.7	6507.5	8505.4	8947.7	8768.0
52.5°	7905.9	8523.7	11853.9	14103.1	12863.4	8484.3	7539.5	10487.8	10633.9	10298.3
55°	9389.9	9707.2	13861.7	16546.1	15085.9	9634.2	9048.8	12975.7	12567.2	11605.4
57.5°	12769.3	11580.2	16439.4	19333.0	17600.5	11723.4	12356.6	15719.1	14266.0	12644.4
60°	15597.0	13854.6	18824.8	22098.9	19755.6	14025.9	15462.2	16196.5	14202.8	12529.3
62.5°	14643.7	14434.5	19685.4	22403.6	20491.3	15158.9	14885.2	14993.3	13276.2	11764.1
65°	12848.0	13315.5	18917.4	20958.9	19675.6	14143.9	13464.3	13881.3	12216.2	10692.8
67.5°	11787.9	12131.9	17551.4	18646.5	18193.0	13045.9	12359.4	12057.5	10570.7	9276.2
70°	10704.1	10989.1	15633.5	15744.4	15880.6	11220.7	10106.0	9207.4	7879.2	6973.6
72.5°	9249.5	9265.0	13208.8	12565.8	12824.1	8780.6	8134.8	6883.8	5735.3	4914.0
75°	7759.9	7335.9	10455.6	8783.4	9301.5	6830.4	6754.6	5187.8	4325.7	3651.8
77.5°	5916.4	5420.8	7637.7	5776.0	6532.8	4548.9	5078.3	3518.4	3043.9	2430.3
80°	3971.9	3663.0	4220.4	3260.1	4273.8	3135.1	3312.0	1993.7	1728.3	1340.8
82.5°	2094.8	1788.7	2608.6	1933.3	2577.7	1722.7	1242.5	616.4	525.1	424.0
85°	811.5	939.3	1279.0	688.0	999.6	615.0	359.4	153.0	127.8	96.9
87.5°	157.2	242.9	133.4	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)