

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: P637217

Luminaire Tested: GWS-SA4C-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637217
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-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17944 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

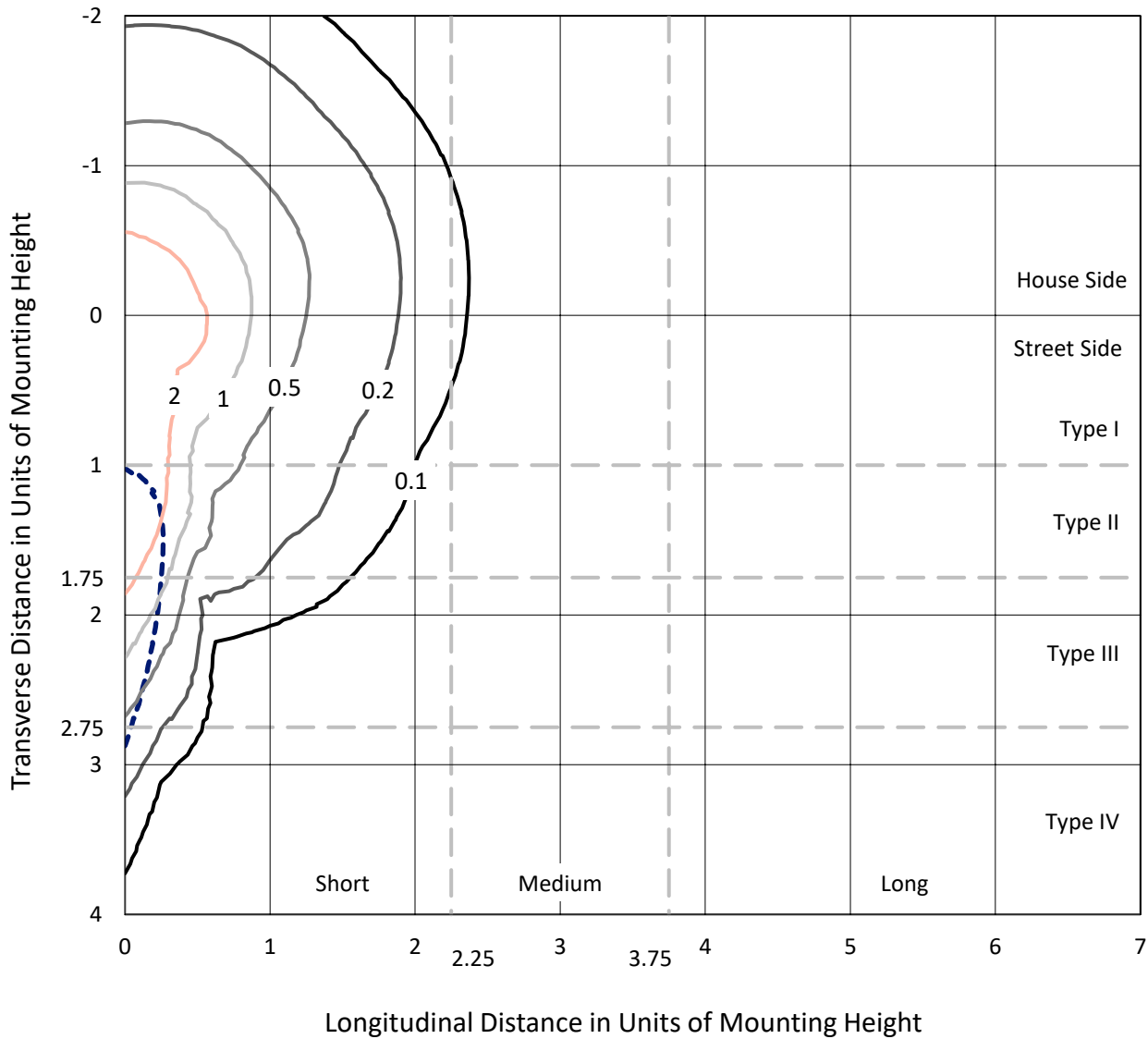
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

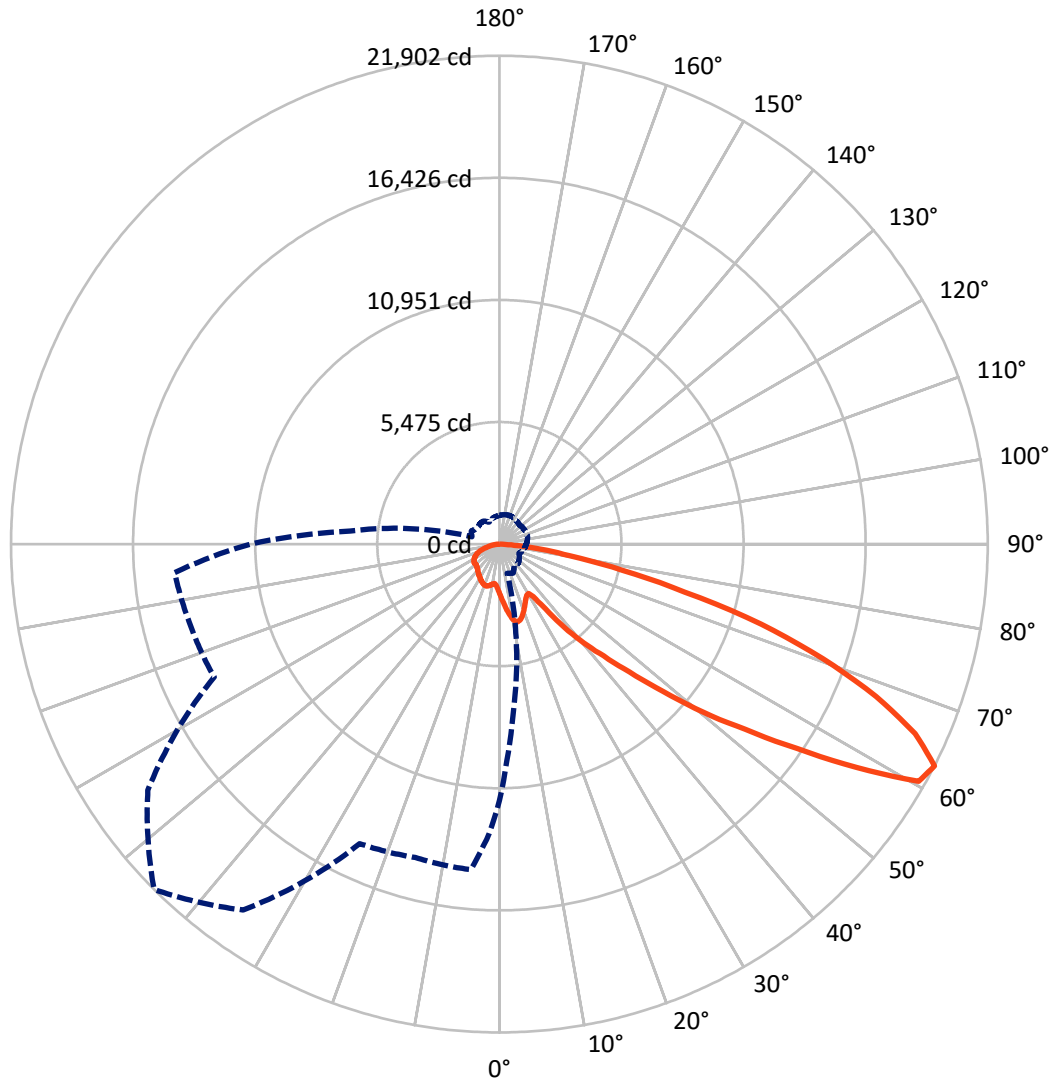
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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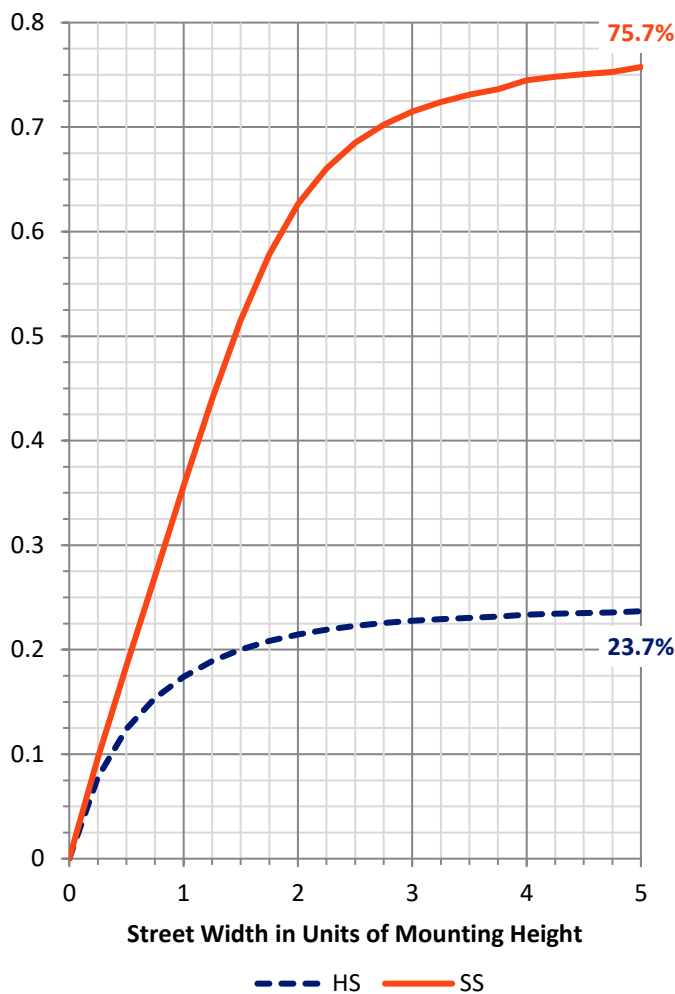
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4290.4	0.0	4290.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	13653.6	0.0	13653.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	17944.0	0.0	17944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.2
10°-20°	716.3	4.0
20°-30°	1127.6	6.3
30°-40°	1545.6	8.6
40°-50°	2411.7	13.4
50°-60°	4158.2	23.2
60°-70°	4818.8	26.9
70°-80°	2543.6	14.2
80°-90°	401.8	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°	17944.0	100.0
0°-180°	17944.0	100.0

Coefficient of Utilization



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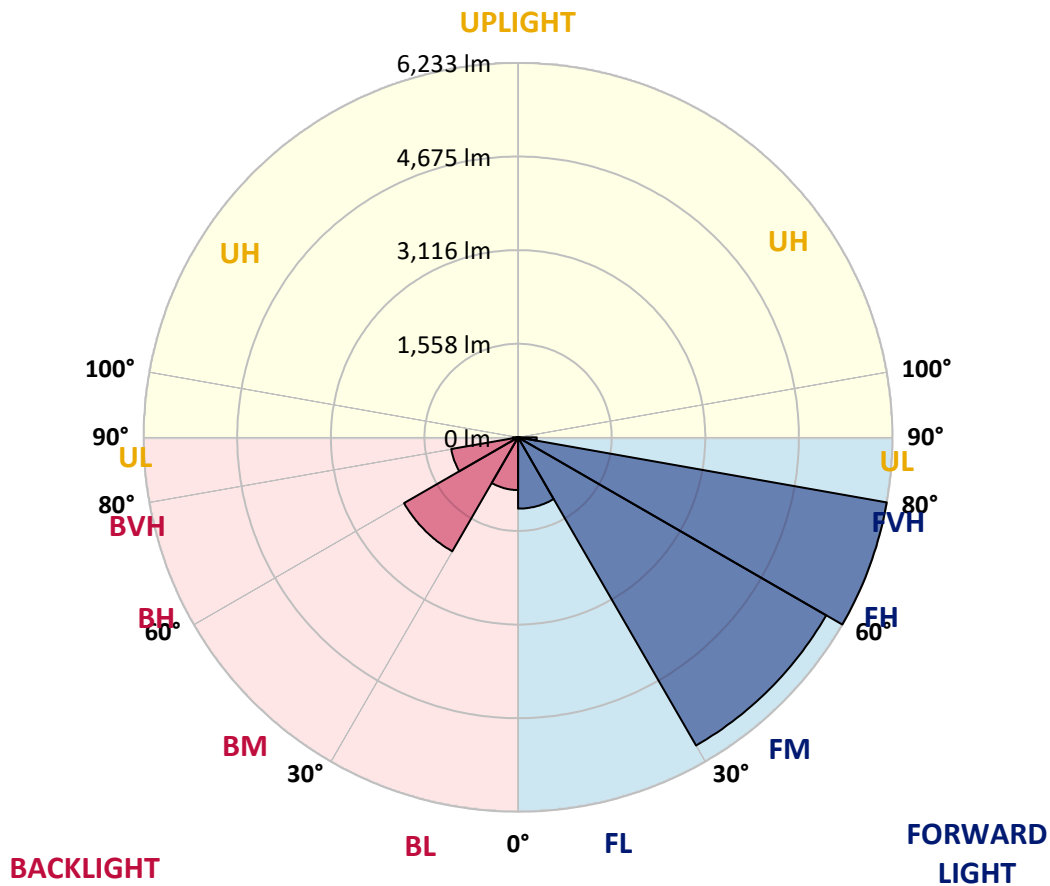
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.8	6.6			
FM (30°-60°)	5923.9	33.0			
FH (60°-80°)	6232.7	34.7			G3/7500
FVH (80°-90°)	310.1	1.7			G3/500
BL (0°-30°)	877.5	4.9	B2/1000		
BM (30°-60°)	2191.5	12.2	B2/2500		
BH (60°-80°)	1129.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	91.7	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°	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2
2.5°	2430.8	2421.2	2407.4	2360.8	2332.0	2299.0	2264.7	2224.9	2179.6	2148.0	2116.5
5°	2636.7	2621.6	2588.6	2477.4	2400.6	2316.9	2246.9	2167.2	2089.0	2035.5	1982.0
7.5°	2834.3	2815.1	2764.3	2594.1	2469.2	2348.4	2242.7	2127.4	2010.8	1931.2	1868.0
10°	3031.9	2992.1	2927.6	2705.3	2540.6	2400.6	2279.8	2138.4	1983.3	1874.9	1807.6
12.5°	3182.9	3145.9	3075.9	2806.9	2611.9	2436.3	2300.4	2170.0	2038.2	1922.9	1854.3
15°	3324.3	3276.3	3196.7	2901.6	2671.0	2434.9	2259.2	2145.3	2126.1	2097.2	2008.0
17.5°	3425.9	3381.9	3299.6	2978.4	2703.9	2392.3	2145.3	2078.0	2164.5	2252.3	2167.2
20°	3515.1	3464.3	3380.6	3031.9	2710.8	2297.6	2006.7	2008.0	2143.9	2264.7	2244.1
22.5°	3590.6	3534.3	3460.2	3092.3	2708.0	2165.9	1885.9	1968.2	2104.1	2198.8	2201.6
25°	3683.9	3637.2	3575.5	3181.6	2708.0	2031.4	1798.0	1920.2	2036.9	2116.5	2113.7
27.5°	3797.8	3766.3	3715.5	3317.4	2732.7	1918.8	1748.6	1858.4	1950.4	2019.0	2017.6
30°	3925.5	3896.6	3858.2	3461.6	2775.3	1835.1	1721.2	1781.6	1848.8	1903.7	1903.7
32.5°	4055.9	4044.9	4003.7	3576.8	2742.3	1809.0	1697.8	1704.7	1740.4	1785.7	1781.6
35°	4237.0	4226.1	4173.9	3666.1	2599.6	1772.0	1660.8	1626.5	1630.6	1659.4	1669.0
37.5°	4501.9	4485.5	4408.6	3770.4	2384.1	1678.6	1600.4	1544.1	1531.8	1544.1	1562.0
40°	4821.7	4797.0	4692.7	3911.7	2135.7	1552.3	1505.7	1459.0	1438.4	1442.5	1463.1
42.5°	5222.5	5170.4	5020.8	4061.4	1890.0	1441.2	1400.0	1371.2	1347.8	1345.1	1384.9
45°	5873.1	5730.4	5492.9	4194.5	1682.7	1382.2	1305.3	1284.7	1265.5	1276.5	1323.1
47.5°	7009.6	6746.0	6283.5	4308.4	1556.5	1383.5	1229.8	1207.8	1206.5	1228.4	1280.6
50°	8571.5	8191.3	7477.6	4385.3	1490.6	1400.0	1184.5	1148.8	1174.9	1196.9	1246.3
52.5°	10067.6	9487.0	8637.4	4383.9	1461.8	1402.7	1196.9	1093.9	1174.9	1180.4	1227.1
55°	11345.4	10294.1	8950.4	3933.7	1420.6	1391.8	1244.9	1051.4	1159.8	1180.4	1217.4
57.5°	12361.1	10807.4	8927.0	3177.4	1545.5	1331.4	1273.7	1041.8	1115.9	1183.1	1225.7
60°	12248.6	10572.7	8351.9	1950.4	1533.1	1224.3	1269.6	1059.6	1041.8	1146.1	1216.1
62.5°	11500.5	9731.3	7362.3	1353.3	1439.8	1162.5	1202.3	1091.2	973.1	1092.5	1169.4
65°	10453.3	8645.6	6135.3	1037.6	1192.7	1165.3	1088.4	1069.2	912.7	1007.4	1089.8
67.5°	9068.4	7299.2	4843.7	822.2	831.8	1008.8	988.2	949.8	856.5	932.0	1006.1
70°	6817.4	5326.8	3332.5	661.6	630.0	842.7	888.0	853.7	801.6	823.5	901.8
72.5°	4803.9	3478.0	1825.5	524.3	485.9	647.8	771.4	765.9	708.2	724.7	801.6
75°	3570.0	2461.0	1140.6	414.5	395.3	463.9	646.5	662.9	614.9	634.1	693.1
77.5°	2375.9	1593.5	634.1	307.4	307.4	339.0	481.8	558.6	522.9	538.0	579.2
80°	1310.8	811.2	317.1	201.8	207.3	233.3	351.4	402.2	403.5	440.6	451.6
82.5°	414.5	258.0	141.4	118.0	111.2	133.1	226.5	288.2	269.0	343.1	315.7
85°	94.7	60.4	26.1	26.1	28.8	43.9	86.5	153.7	196.3	236.1	171.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	60.4	89.2	79.6
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°	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2
2.5°	2097.2	2069.8	2061.6	2038.2	2035.5	2013.5	2005.3	2005.3	2014.9	2014.9	2024.5
5°	1960.0	1925.7	1906.5	1879.0	1872.1	1855.7	1844.7	1846.1	1858.4	1866.7	1883.1
7.5°	1839.2	1815.9	1802.1	1789.8	1787.1	1784.3	1772.0	1770.6	1774.7	1787.1	1799.4
10°	1788.4	1772.0	1776.1	1785.7	1800.8	1809.0	1798.0	1792.5	1788.4	1796.7	1807.6
12.5°	1837.8	1821.4	1829.6	1846.1	1866.7	1874.9	1870.8	1869.4	1873.5	1905.1	1928.4
15°	1946.3	1914.7	1903.7	1910.6	1927.1	1935.3	1931.2	1936.7	1962.7	2045.1	2104.1
17.5°	2080.8	2003.9	1960.0	1947.6	1954.5	1961.4	1961.4	1975.1	2020.4	2141.2	2215.3
20°	2153.5	2053.3	1979.2	1949.0	1951.8	1958.6	1958.6	1977.8	2028.6	2157.6	2205.7
22.5°	2134.3	2042.3	1951.8	1918.8	1920.2	1925.7	1925.7	1942.1	1987.4	2101.4	2123.3
25°	2058.8	1977.8	1888.6	1859.8	1862.5	1872.1	1869.4	1879.0	1913.3	2006.7	2019.0
27.5°	1968.2	1896.9	1809.0	1787.1	1799.4	1818.6	1802.1	1803.5	1835.1	1913.3	1914.7
30°	1870.8	1811.8	1733.5	1717.1	1740.4	1750.0	1734.9	1734.9	1766.5	1820.0	1818.6
32.5°	1765.1	1728.0	1671.8	1653.9	1680.0	1695.1	1675.9	1678.6	1703.3	1739.0	1725.3
35°	1666.3	1647.1	1621.0	1608.6	1625.1	1638.8	1626.5	1632.0	1655.3	1664.9	1645.7
37.5°	1571.6	1568.8	1571.6	1571.6	1575.7	1579.8	1571.6	1585.3	1605.9	1593.5	1571.6
40°	1489.2	1500.2	1526.3	1519.4	1515.3	1519.4	1513.9	1537.2	1557.8	1535.9	1509.8
42.5°	1420.6	1441.2	1481.0	1481.0	1472.7	1475.5	1472.7	1501.6	1516.7	1486.5	1457.6
45°	1361.6	1391.8	1442.5	1449.4	1435.7	1435.7	1441.2	1476.9	1482.3	1441.2	1411.0
47.5°	1320.4	1357.4	1415.1	1427.4	1406.9	1405.5	1420.6	1459.0	1459.0	1411.0	1376.7
50°	1291.6	1332.7	1401.4	1417.8	1397.2	1391.8	1416.5	1453.5	1445.3	1387.6	1353.3
52.5°	1272.3	1314.9	1400.0	1423.3	1409.6	1404.1	1428.8	1454.9	1434.3	1372.5	1336.9
55°	1260.0	1306.7	1404.1	1423.3	1408.2	1398.6	1423.3	1446.7	1435.7	1364.3	1330.0
57.5°	1266.9	1313.5	1398.6	1408.2	1390.4	1373.9	1402.7	1435.7	1431.6	1367.1	1332.7
60°	1255.9	1298.4	1368.4	1371.2	1341.0	1314.9	1357.4	1406.9	1406.9	1357.4	1327.2
62.5°	1205.1	1247.6	1309.4	1312.2	1277.8	1249.0	1298.4	1357.4	1356.1	1316.3	1284.7
65°	1121.4	1161.2	1231.2	1238.0	1203.7	1173.5	1224.3	1279.2	1283.3	1247.6	1220.2
67.5°	1029.4	1065.1	1117.3	1144.7	1115.9	1084.3	1131.0	1183.1	1181.8	1139.2	1110.4
70°	919.6	952.5	1000.6	1023.9	1006.1	975.9	1018.4	1045.9	1033.5	1012.9	993.7
72.5°	811.2	842.7	888.0	888.0	868.8	840.0	852.3	901.8	916.9	901.8	889.4
75°	697.3	724.7	756.3	763.1	720.6	668.4	726.1	768.6	786.5	779.6	764.5
77.5°	580.6	601.2	647.8	635.5	555.9	528.4	575.1	638.2	650.6	646.5	625.9
80°	447.4	459.8	509.2	484.5	422.7	404.9	425.5	474.9	477.6	463.9	437.8
82.5°	300.6	317.1	350.0	302.0	300.6	284.1	267.6	273.1	297.8	295.1	277.3
85°	153.7	162.0	193.5	181.2	155.1	134.5	127.6	135.9	122.2	111.2	96.1
87.5°	64.5	70.0	96.1	53.5	16.5	0.0	0.0	8.2	12.4	17.8	19.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2
2.5°	2046.5	2061.6	2098.6	2145.3	2190.6	2237.2	2288.0	2319.6	2358.0	2407.4	2408.8
5°	1903.7	1938.0	1991.6	2062.9	2137.0	2222.1	2321.0	2403.3	2502.1	2580.4	2611.9
7.5°	1815.9	1865.3	1932.5	2023.1	2120.6	2226.3	2355.3	2493.9	2655.9	2760.2	2821.9
10°	1824.1	1899.6	1966.9	2043.7	2131.6	2245.5	2411.6	2595.5	2794.5	2931.8	3008.6
12.5°	1971.0	2050.6	2038.2	2034.1	2093.1	2231.8	2456.9	2698.4	2941.4	3078.6	3170.6
15°	2156.3	2186.5	2069.8	1982.0	2017.6	2182.3	2481.6	2790.4	3063.5	3231.0	3321.6
17.5°	2251.0	2190.6	2049.2	1917.4	1907.8	2106.9	2493.9	2883.7	3200.8	3368.2	3464.3
20°	2207.0	2119.2	1999.8	1874.9	1806.3	2003.9	2487.0	2957.8	3325.7	3512.3	3590.6
22.5°	2112.3	2035.5	1942.1	1822.7	1723.9	1891.4	2469.2	3031.9	3436.8	3624.9	3693.5
25°	2009.4	1951.8	1874.9	1770.6	1677.2	1792.5	2456.9	3130.8	3564.5	3744.3	3788.2
27.5°	1906.5	1863.9	1800.8	1719.8	1666.3	1723.9	2461.0	3259.8	3729.2	3899.4	3881.6
30°	1804.9	1767.8	1723.9	1688.2	1664.9	1707.4	2450.0	3397.0	3910.4	4068.2	3962.5
32.5°	1708.8	1674.5	1647.1	1652.5	1666.3	1714.3	2393.7	3521.9	4076.5	4211.0	4050.4
35°	1626.5	1590.8	1590.8	1610.0	1660.8	1691.0	2248.2	3619.4	4260.4	4394.9	4175.3
37.5°	1549.6	1518.0	1538.6	1570.2	1618.2	1627.8	2061.6	3714.1	4528.0	4654.3	4368.8
40°	1482.3	1450.8	1487.8	1527.6	1552.3	1548.2	1872.1	3845.9	4843.7	4974.1	4625.5
42.5°	1428.8	1400.0	1432.9	1483.7	1487.8	1492.0	1733.5	3972.1	5210.2	5376.3	5067.4
45°	1384.9	1364.3	1380.8	1431.6	1431.6	1494.7	1647.1	4077.8	5761.9	6055.7	5878.6
47.5°	1350.6	1338.2	1346.5	1362.9	1390.4	1544.1	1592.1	4158.8	6766.6	7343.1	7164.7
50°	1331.4	1319.0	1330.0	1295.7	1378.0	1568.8	1574.3	4220.6	8091.1	8994.3	8773.3
52.5°	1314.9	1310.8	1317.6	1238.0	1405.5	1552.3	1560.6	4138.2	8979.2	10619.4	10837.6
55°	1309.4	1312.2	1279.2	1195.5	1438.4	1497.4	1519.4	3549.4	9220.7	12020.7	13375.4
57.5°	1312.2	1303.9	1220.2	1199.6	1439.8	1387.6	1578.4	2532.3	8869.4	12630.1	15858.4
60°	1302.5	1261.4	1148.8	1236.7	1376.7	1258.6	1535.9	1651.2	7942.9	12162.1	16002.5
62.5°	1260.0	1199.6	1087.1	1257.2	1264.1	1181.8	1394.5	1272.3	6707.6	11160.1	14613.5
65°	1198.2	1117.3	1034.9	1214.7	1150.2	1146.1	1048.6	1019.8	5394.1	9967.4	13295.8
67.5°	1096.7	1015.7	996.5	1117.3	1034.9	1015.7	842.7	845.5	4304.3	8696.4	11971.3
70°	981.4	900.4	915.5	1010.2	921.0	844.1	682.2	704.1	3265.3	7245.7	10185.6
72.5°	905.9	797.4	798.8	889.4	809.8	683.5	561.4	580.6	2072.5	5461.3	8098.0
75°	764.5	702.7	672.5	720.6	687.6	532.5	472.2	468.0	1228.4	3914.5	6063.9
77.5°	638.2	590.2	575.1	594.3	513.3	393.9	380.2	373.3	695.9	2507.6	3973.5
80°	462.5	450.2	448.8	458.4	395.3	289.6	289.6	291.0	374.7	1361.6	2240.0
82.5°	293.7	321.2	284.1	315.7	269.0	205.9	192.2	218.2	215.5	580.6	944.3
85°	122.2	167.5	156.5	166.1	127.6	112.5	120.8	130.4	124.9	223.7	367.8
87.5°	23.3	27.5	30.2	28.8	28.8	35.7	39.8	48.0	48.0	64.5	111.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2
2.5°	2461.0	2500.8	2492.5	2510.4	2487.0	2495.3	2448.6	2436.3	2428.0	2430.8
5°	2713.5	2794.5	2809.6	2839.8	2819.2	2819.2	2736.9	2675.1	2653.1	2636.7
7.5°	2970.2	3086.8	3163.7	3171.9	3161.0	3139.0	3019.6	2908.4	2868.6	2834.3
10°	3198.0	3338.0	3424.5	3465.7	3445.1	3410.8	3262.5	3110.2	3062.1	3031.9
12.5°	3372.3	3495.9	3553.5	3581.0	3578.2	3565.9	3445.1	3280.4	3229.6	3182.9
15°	3484.9	3546.7	3524.7	3523.3	3542.5	3591.9	3554.9	3425.9	3366.8	3324.3
17.5°	3557.6	3498.6	3401.2	3355.9	3397.0	3513.7	3598.8	3526.1	3472.5	3425.9
20°	3583.7	3373.7	3232.3	3148.6	3196.7	3365.5	3575.5	3598.8	3553.5	3515.1
22.5°	3553.5	3221.4	3029.2	2930.4	2977.0	3178.8	3506.8	3657.8	3627.6	3590.6
25°	3479.4	3062.1	2831.6	2742.3	2793.1	2999.0	3384.7	3712.7	3714.1	3683.9
27.5°	3387.4	2915.3	2692.9	2609.2	2658.6	2850.8	3265.3	3760.8	3808.8	3797.8
30°	3294.1	2827.4	2627.0	2568.0	2605.1	2775.3	3143.1	3810.2	3906.3	3925.5
32.5°	3251.6	2870.0	2782.1	2808.2	2760.2	2819.2	3099.2	3880.2	4024.3	4055.9
35°	3307.8	3247.4	3469.8	3572.7	3402.5	3178.8	3155.5	3985.9	4190.4	4237.0
37.5°	3581.0	4055.9	4388.0	4750.4	4455.3	3962.5	3434.1	4165.7	4427.8	4501.9
40°	4175.3	4761.4	5361.2	5829.2	5383.1	4720.2	3963.9	4433.3	4754.5	4821.7
42.5°	4735.3	5422.9	6249.2	6854.5	6275.3	5339.2	4534.9	4883.5	5185.5	5222.5
45°	5284.3	6072.1	7323.9	8165.3	7378.8	5928.0	5118.2	5643.9	5871.7	5873.1
47.5°	5928.0	6803.7	8671.7	9870.0	8843.3	6580.0	5665.9	6847.6	7164.7	7009.6
50°	6698.0	7531.1	10059.4	11853.3	10629.0	7381.5	6361.7	8314.9	8747.2	8571.5
52.5°	7728.8	8332.7	11588.4	13787.2	12575.2	8294.3	7370.6	10252.9	10395.6	10067.6
55°	9179.6	9489.8	13551.1	16175.4	14748.0	9418.4	8846.0	12685.0	12285.6	11345.4
57.5°	12483.3	11320.7	16071.1	18899.9	17206.2	11460.7	12079.8	15367.0	13946.4	12361.1
60°	15247.6	13544.3	18403.1	21603.8	19313.1	13711.7	15115.8	15833.7	13884.6	12248.6
62.5°	14315.6	14111.1	19244.4	21901.7	20032.3	14819.3	14551.7	14657.4	12978.8	11500.5
65°	12560.1	13017.2	18493.6	20489.3	19234.8	13827.0	13162.7	13570.3	11942.5	10453.3
67.5°	11523.9	11860.1	17158.2	18228.7	17785.4	12753.7	12082.5	11787.4	10333.9	9068.4
70°	10464.3	10742.9	15283.3	15391.7	15524.8	10969.4	9879.6	9001.1	7702.7	6817.4
72.5°	9042.3	9057.4	12912.9	12284.3	12536.8	8583.9	7952.5	6729.6	5606.8	4803.9
75°	7586.0	7171.5	10221.3	8586.6	9093.1	6677.4	6603.3	5071.5	4228.8	3570.0
77.5°	5783.9	5299.4	7466.6	5646.6	6386.4	4447.0	4964.5	3439.6	2975.7	2375.9
80°	3882.9	3581.0	4125.9	3187.0	4178.0	3064.9	3237.8	1949.0	1689.6	1310.8
82.5°	2047.8	1748.6	2550.2	1890.0	2520.0	1684.1	1214.7	602.5	513.3	414.5
85°	793.3	918.2	1250.4	672.5	977.3	601.2	351.4	149.6	124.9	94.7
87.5°	153.7	237.4	130.4	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)