

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: P633807

Luminaire Tested: GWS-SA2F-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633807
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-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15204.4 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

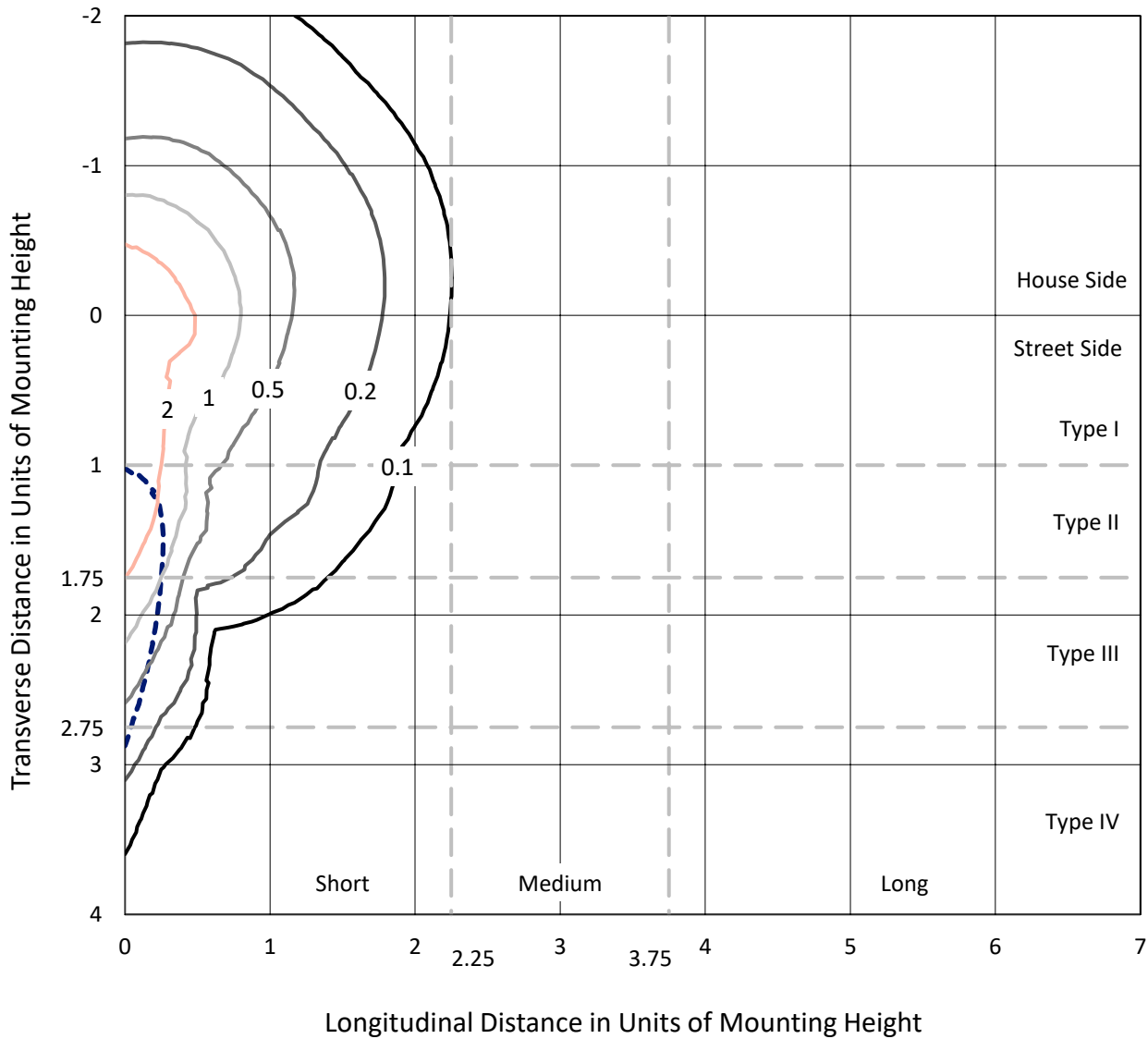
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

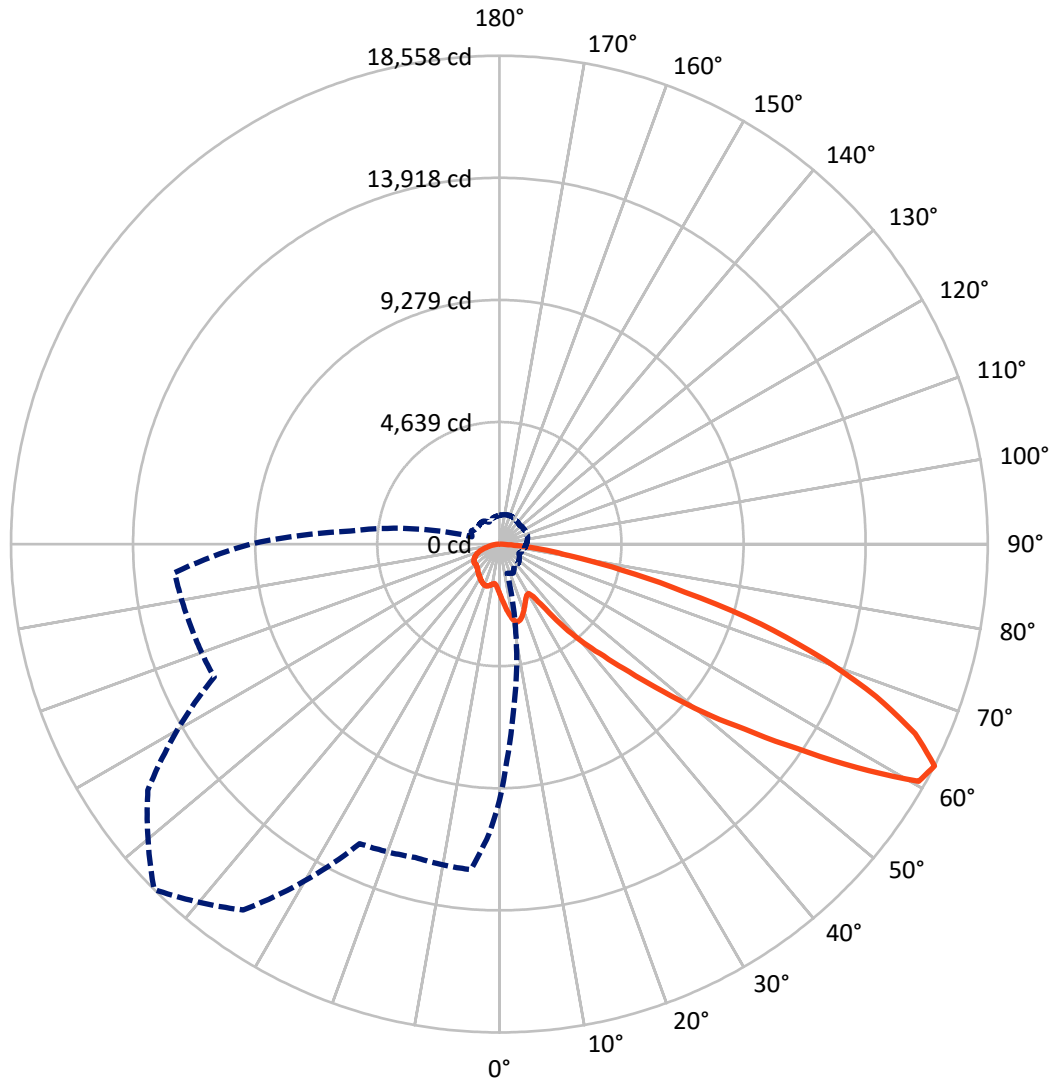
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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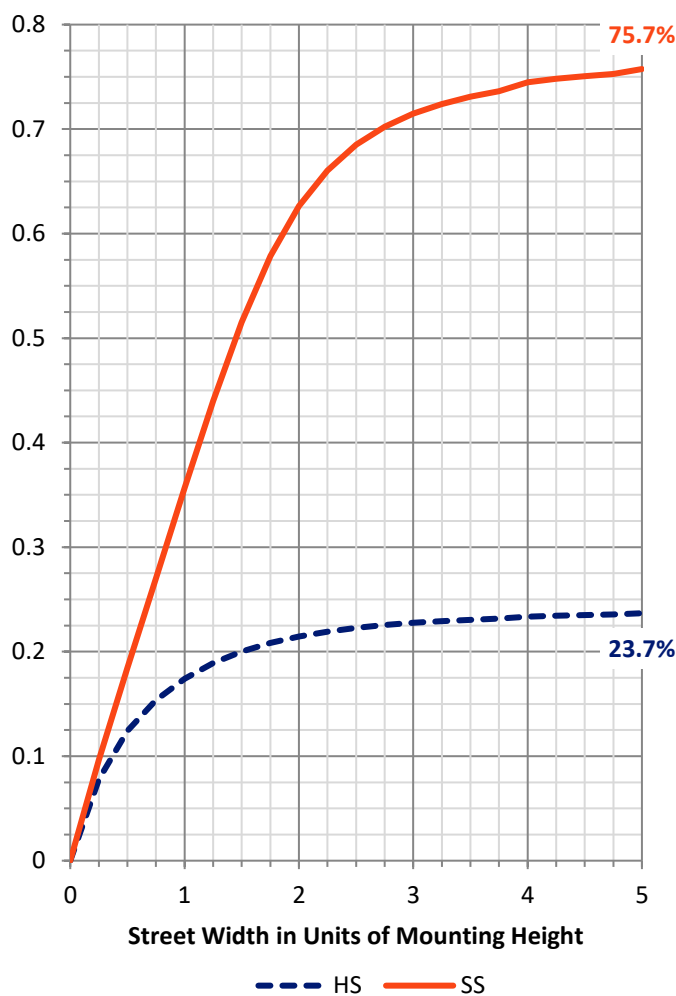
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3635.4	0.0	3635.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	11569.0	0.0	11569.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	15204.4	0.0	15204.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.2
10°-20°	606.9	4.0
20°-30°	955.5	6.3
30°-40°	1309.7	8.6
40°-50°	2043.5	13.4
50°-60°	3523.3	23.2
60°-70°	4083.1	26.9
70°-80°	2155.2	14.2
80°-90°	340.5	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°	15204.4	100.0
0°-180°	15204.4	100.0

Coefficient of Utilization



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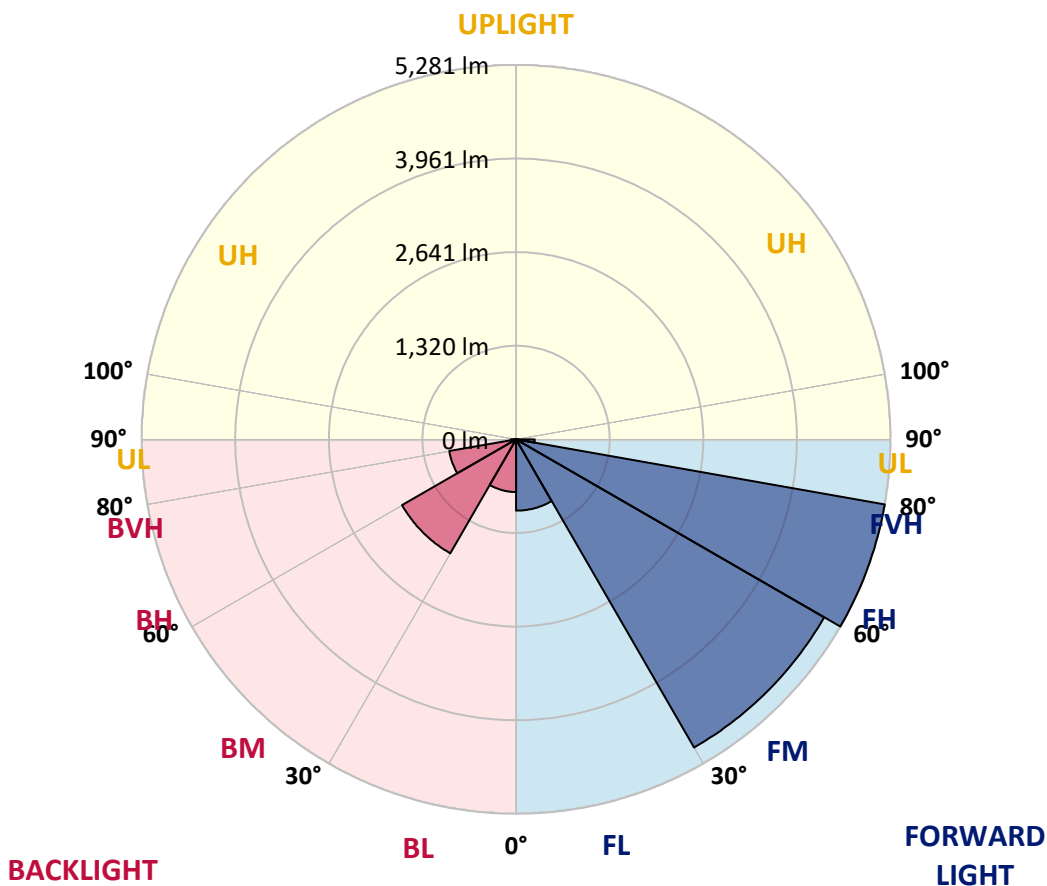
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.6	6.6			
FM (30°-60°)	5019.5	33.0			
FH (60°-80°)	5281.1	34.7			G3/7500
FVH (80°-90°)	262.8	1.7			G3/500
BL (0°-30°)	743.6	4.9	B2/1000		
BM (30°-60°)	1856.9	12.2	B2/2500		
BH (60°-80°)	957.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	77.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	2059.7	2051.5	2039.9	2000.3	1975.9	1948.0	1918.9	1885.2	1846.8	1820.1	1793.3
5°	2234.1	2221.3	2193.4	2099.2	2034.1	1963.1	1903.8	1836.4	1770.1	1724.7	1679.4
7.5°	2401.6	2385.3	2342.3	2198.1	2092.2	1989.9	1900.3	1802.6	1703.8	1636.3	1582.8
10°	2569.0	2535.3	2480.7	2292.3	2152.7	2034.1	1931.7	1811.9	1680.5	1588.6	1531.7
12.5°	2697.0	2665.6	2606.3	2378.3	2213.2	2064.3	1949.2	1838.7	1727.0	1629.3	1571.2
15°	2816.8	2776.1	2708.6	2458.6	2263.2	2063.1	1914.3	1817.8	1801.5	1777.0	1701.5
17.5°	2902.8	2865.6	2795.8	2523.7	2291.1	2027.1	1817.8	1760.8	1834.0	1908.5	1836.4
20°	2978.4	2935.4	2864.4	2569.0	2296.9	1946.8	1700.3	1701.5	1816.6	1918.9	1901.5
22.5°	3042.4	2994.7	2931.9	2620.2	2294.6	1835.2	1597.9	1667.7	1782.9	1863.1	1865.4
25°	3121.5	3081.9	3029.6	2695.8	2294.6	1721.2	1523.5	1627.0	1725.9	1793.3	1791.0
27.5°	3218.0	3191.2	3148.2	2810.9	2315.5	1625.9	1481.6	1574.7	1652.6	1710.8	1709.6
30°	3326.2	3301.7	3269.2	2933.1	2351.6	1554.9	1458.4	1509.6	1566.5	1613.1	1613.1
32.5°	3436.6	3427.3	3392.4	3030.8	2323.7	1532.8	1438.6	1444.4	1474.7	1513.1	1509.6
35°	3590.2	3580.8	3536.7	3106.3	2202.7	1501.4	1407.2	1378.1	1381.6	1406.1	1414.2
37.5°	3814.6	3800.7	3735.5	3194.7	2020.1	1422.3	1356.0	1308.4	1297.9	1308.4	1323.5
40°	4085.6	4064.7	3976.3	3314.5	1809.6	1315.3	1275.8	1236.3	1218.8	1222.3	1239.7
42.5°	4425.2	4381.0	4254.2	3441.3	1601.4	1221.1	1186.2	1161.8	1142.1	1139.7	1173.5
45°	4976.4	4855.5	4654.3	3554.1	1425.8	1171.1	1106.0	1088.6	1072.3	1081.6	1121.1
47.5°	5939.4	5716.1	5324.2	3650.6	1318.8	1172.3	1042.0	1023.4	1022.3	1040.9	1085.1
50°	7262.9	6940.7	6336.0	3715.8	1263.0	1186.2	1003.7	973.4	995.5	1014.1	1056.0
52.5°	8530.5	8038.6	7318.7	3714.6	1238.6	1188.6	1014.1	926.9	995.5	1000.2	1039.7
55°	9613.3	8722.4	7583.9	3333.1	1203.7	1179.3	1054.8	890.9	982.7	1000.2	1031.6
57.5°	10473.9	9157.4	7564.1	2692.3	1309.5	1128.1	1079.3	882.7	945.5	1002.5	1038.6
60°	10378.5	8958.5	7076.8	1652.6	1299.1	1037.4	1075.8	897.8	882.7	971.1	1030.4
62.5°	9744.7	8245.6	6238.3	1146.7	1220.0	985.1	1018.8	924.6	824.6	925.7	990.9
65°	8857.3	7325.7	5198.6	879.2	1010.6	987.4	922.3	906.0	773.4	853.6	923.4
67.5°	7683.9	6184.8	4104.2	696.6	704.8	854.8	837.4	804.8	725.7	789.7	852.5
70°	5776.6	4513.6	2823.7	560.6	533.8	714.1	752.5	723.4	679.2	697.8	764.1
72.5°	4070.5	2947.0	1546.8	444.3	411.7	548.9	653.6	648.9	600.1	614.1	679.2
75°	3024.9	2085.2	966.4	351.2	334.9	393.1	547.8	561.7	521.0	537.3	587.3
77.5°	2013.1	1350.2	537.3	260.5	260.5	287.3	408.2	473.3	443.1	455.9	490.8
80°	1110.7	687.3	268.7	171.0	175.6	197.7	297.7	340.8	341.9	373.3	382.6
82.5°	351.2	218.6	119.8	100.0	94.2	112.8	191.9	244.2	227.9	290.7	267.5
85°	80.2	51.2	22.1	22.1	24.4	37.2	73.3	130.3	166.3	200.0	145.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	51.2	75.6	67.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1777.0	1753.8	1746.8	1727.0	1724.7	1706.1	1699.1	1699.1	1707.3	1707.3	1715.4
5°	1660.7	1631.7	1615.4	1592.1	1586.3	1572.4	1563.1	1564.2	1574.7	1581.7	1595.6
7.5°	1558.4	1538.6	1527.0	1516.5	1514.2	1511.9	1501.4	1500.3	1503.7	1514.2	1524.7
10°	1515.4	1501.4	1504.9	1513.1	1525.8	1532.8	1523.5	1518.9	1515.4	1522.4	1531.7
12.5°	1557.2	1543.3	1550.3	1564.2	1581.7	1588.6	1585.2	1584.0	1587.5	1614.2	1634.0
15°	1649.1	1622.4	1613.1	1618.9	1632.8	1639.8	1636.3	1641.0	1663.1	1732.9	1782.9
17.5°	1763.1	1698.0	1660.7	1650.3	1656.1	1661.9	1661.9	1673.5	1711.9	1814.3	1877.1
20°	1824.7	1739.8	1677.0	1651.4	1653.8	1659.6	1659.6	1675.9	1718.9	1828.2	1868.9
22.5°	1808.4	1730.5	1653.8	1625.9	1627.0	1631.7	1631.7	1645.6	1684.0	1780.5	1799.1
25°	1744.5	1675.9	1600.3	1575.9	1578.2	1586.3	1584.0	1592.1	1621.2	1700.3	1710.8
27.5°	1667.7	1607.3	1532.8	1514.2	1524.7	1541.0	1527.0	1528.2	1554.9	1621.2	1622.4
30°	1585.2	1535.1	1468.9	1454.9	1474.7	1482.8	1470.0	1470.0	1496.8	1542.1	1541.0
32.5°	1495.6	1464.2	1416.5	1401.4	1423.5	1436.3	1420.0	1422.3	1443.3	1473.5	1461.9
35°	1411.9	1395.6	1373.5	1363.0	1377.0	1388.6	1378.1	1382.8	1402.6	1410.7	1394.4
37.5°	1331.6	1329.3	1331.6	1331.6	1335.1	1338.6	1331.6	1343.3	1360.7	1350.2	1331.6
40°	1261.8	1271.1	1293.2	1287.4	1283.9	1287.4	1282.8	1302.5	1320.0	1301.4	1279.3
42.5°	1203.7	1221.1	1254.9	1254.9	1247.9	1250.2	1247.9	1272.3	1285.1	1259.5	1235.1
45°	1153.7	1179.3	1222.3	1228.1	1216.5	1216.5	1221.1	1251.4	1256.0	1221.1	1195.6
47.5°	1118.8	1150.2	1199.0	1209.5	1192.1	1190.9	1203.7	1236.3	1236.3	1195.6	1166.5
50°	1094.4	1129.3	1187.4	1201.4	1183.9	1179.3	1200.2	1231.6	1224.6	1175.8	1146.7
52.5°	1078.1	1114.1	1186.2	1206.0	1194.4	1189.7	1210.7	1232.8	1215.3	1163.0	1132.8
55°	1067.6	1107.2	1189.7	1206.0	1193.2	1185.1	1206.0	1225.8	1216.5	1156.0	1126.9
57.5°	1073.4	1113.0	1185.1	1193.2	1178.1	1164.2	1188.6	1216.5	1213.0	1158.3	1129.3
60°	1064.1	1100.2	1159.5	1161.8	1136.2	1114.1	1150.2	1192.1	1192.1	1150.2	1124.6
62.5°	1021.1	1057.2	1109.5	1111.8	1082.7	1058.3	1100.2	1150.2	1149.0	1115.3	1088.6
65°	950.2	983.9	1043.2	1049.0	1019.9	994.4	1037.4	1083.9	1087.4	1057.2	1033.9
67.5°	872.2	902.5	946.7	969.9	945.5	918.8	958.3	1002.5	1001.3	965.3	940.9
70°	779.2	807.1	847.8	867.6	852.5	826.9	862.9	886.2	875.7	858.3	842.0
72.5°	687.3	714.1	752.5	752.5	736.2	711.7	722.2	764.1	776.9	764.1	753.6
75°	590.8	614.1	640.8	646.6	610.6	566.4	615.2	651.3	666.4	660.6	647.8
77.5°	491.9	509.4	548.9	538.5	471.0	447.8	487.3	540.8	551.3	547.8	530.3
80°	379.1	389.6	431.5	410.5	358.2	343.1	360.5	402.4	404.7	393.1	371.0
82.5°	254.7	268.7	296.6	255.9	254.7	240.7	226.8	231.4	252.4	250.0	234.9
85°	130.3	137.2	164.0	153.5	131.4	114.0	108.2	115.1	103.5	94.2	81.4
87.5°	54.7	59.3	81.4	45.4	14.0	0.0	0.0	7.0	10.5	15.1	16.3
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°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1734.0	1746.8	1778.2	1817.8	1856.1	1895.7	1938.7	1965.5	1998.0	2039.9	2041.0
5°	1613.1	1642.1	1687.5	1748.0	1810.8	1882.9	1966.6	2036.4	2120.1	2186.4	2213.2
7.5°	1538.6	1580.5	1637.5	1714.2	1796.8	1886.4	1995.7	2113.2	2250.4	2338.8	2391.1
10°	1545.6	1609.6	1666.6	1731.7	1806.1	1902.7	2043.4	2199.2	2367.8	2484.1	2549.3
12.5°	1670.1	1737.5	1727.0	1723.6	1773.6	1891.0	2081.8	2286.4	2492.3	2608.6	2686.5
15°	1827.1	1852.6	1753.8	1679.4	1709.6	1849.2	2102.7	2364.4	2595.8	2737.7	2814.4
17.5°	1907.3	1856.1	1736.3	1624.7	1616.6	1785.2	2113.2	2443.4	2712.1	2854.0	2935.4
20°	1870.1	1795.7	1694.5	1588.6	1530.5	1698.0	2107.3	2506.2	2817.9	2976.1	3042.4
22.5°	1789.8	1724.7	1645.6	1544.5	1460.7	1602.6	2092.2	2569.0	2912.1	3071.5	3129.6
25°	1702.6	1653.8	1588.6	1500.3	1421.2	1518.9	2081.8	2652.8	3020.3	3172.6	3209.9
27.5°	1615.4	1579.3	1525.8	1457.2	1411.9	1460.7	2085.2	2762.1	3159.8	3304.1	3288.9
30°	1529.3	1497.9	1460.7	1430.5	1410.7	1446.8	2075.9	2878.4	3313.4	3447.1	3357.6
32.5°	1447.9	1418.8	1395.6	1400.2	1411.9	1452.6	2028.3	2984.2	3454.1	3568.1	3432.0
35°	1378.1	1347.9	1347.9	1364.2	1407.2	1432.8	1905.0	3066.8	3609.9	3723.9	3537.8
37.5°	1313.0	1286.3	1303.7	1330.5	1371.2	1379.3	1746.8	3147.1	3836.7	3943.7	3701.8
40°	1256.0	1229.3	1260.7	1294.4	1315.3	1311.9	1586.3	3258.7	4104.2	4214.7	3919.3
42.5°	1210.7	1186.2	1214.2	1257.2	1260.7	1264.2	1468.9	3365.7	4414.7	4555.4	4293.8
45°	1173.5	1156.0	1170.0	1213.0	1213.0	1266.5	1395.6	3455.2	4882.2	5131.1	4981.1
47.5°	1144.4	1133.9	1140.9	1154.8	1178.1	1308.4	1349.1	3523.9	5733.5	6222.0	6070.8
50°	1128.1	1117.6	1126.9	1097.9	1167.6	1329.3	1333.9	3576.2	6855.8	7621.1	7433.8
52.5°	1114.1	1110.7	1116.5	1049.0	1190.9	1315.3	1322.3	3506.4	7608.3	8998.1	9183.0
55°	1109.5	1111.8	1083.9	1013.0	1218.8	1268.8	1287.4	3007.5	7813.0	10185.5	11333.3
57.5°	1111.8	1104.8	1033.9	1016.5	1220.0	1175.8	1337.4	2145.7	7515.2	10701.8	13437.2
60°	1103.7	1068.8	973.4	1047.9	1166.5	1066.5	1301.4	1399.1	6730.2	10305.3	13559.3
62.5°	1067.6	1016.5	921.1	1065.3	1071.1	1001.3	1181.6	1078.1	5683.5	9456.3	12382.4
65°	1015.3	946.7	876.9	1029.2	974.6	971.1	888.5	864.1	4570.6	8445.6	11265.9
67.5°	929.2	860.6	844.3	946.7	876.9	860.6	714.1	716.4	3647.1	7368.7	10143.6
70°	831.5	762.9	775.7	856.0	780.4	715.2	578.0	596.6	2766.8	6139.4	8630.5
72.5°	767.6	675.7	676.9	753.6	686.2	579.2	475.7	491.9	1756.1	4627.5	6861.6
75°	647.8	595.5	569.9	610.6	582.7	451.2	400.1	396.6	1040.9	3316.8	5138.1
77.5°	540.8	500.1	487.3	503.6	435.0	333.8	322.1	316.3	589.6	2124.8	3366.9
80°	391.9	381.5	380.3	388.4	334.9	245.4	245.4	246.6	317.5	1153.7	1898.0
82.5°	248.9	272.1	240.7	267.5	227.9	174.4	162.8	184.9	182.6	491.9	800.1
85°	103.5	141.9	132.6	140.7	108.2	95.4	102.3	110.5	105.8	189.6	311.7
87.5°	19.8	23.3	25.6	24.4	24.4	30.2	33.7	40.7	40.7	54.7	94.2
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°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	2085.2	2119.0	2112.0	2127.1	2107.3	2114.3	2074.8	2064.3	2057.3	2059.7
5°	2299.2	2367.8	2380.6	2406.2	2388.8	2388.8	2319.0	2266.7	2248.1	2234.1
7.5°	2516.7	2615.6	2680.7	2687.7	2678.4	2659.8	2558.6	2464.4	2430.6	2401.6
10°	2709.8	2828.4	2901.7	2936.5	2919.1	2890.0	2764.4	2635.3	2594.6	2569.0
12.5°	2857.5	2962.1	3011.0	3034.2	3031.9	3021.4	2919.1	2779.5	2736.5	2697.0
15°	2952.8	3005.2	2986.6	2985.4	3001.7	3043.5	3012.1	2902.8	2852.8	2816.8
17.5°	3014.5	2964.5	2881.9	2843.5	2878.4	2977.3	3049.4	2987.7	2942.4	2902.8
20°	3036.6	2858.6	2738.8	2667.9	2708.6	2851.7	3029.6	3049.4	3011.0	2978.4
22.5°	3011.0	2729.5	2566.7	2483.0	2522.5	2693.5	2971.4	3099.4	3073.8	3042.4
25°	2948.2	2594.6	2399.2	2323.7	2366.7	2541.1	2867.9	3145.9	3147.1	3121.5
27.5°	2870.3	2470.2	2281.8	2210.8	2252.7	2415.5	2766.8	3186.6	3227.3	3218.0
30°	2791.2	2395.8	2226.0	2176.0	2207.4	2351.6	2663.2	3228.5	3309.9	3326.2
32.5°	2755.1	2431.8	2357.4	2379.5	2338.8	2388.8	2626.0	3287.8	3409.9	3436.6
35°	2802.8	2751.6	2940.0	3027.3	2883.1	2693.5	2673.7	3377.3	3550.6	3590.2
37.5°	3034.2	3436.6	3718.1	4025.1	3775.1	3357.6	2909.8	3529.7	3751.8	3814.6
40°	3537.8	4034.4	4542.6	4939.2	4561.2	3999.5	3358.7	3756.5	4028.6	4085.6
42.5°	4012.3	4595.0	5295.1	5808.0	5317.2	4524.0	3842.5	4137.9	4393.8	4425.2
45°	4477.5	5145.1	6205.7	6918.6	6252.2	5023.0	4336.8	4782.2	4975.3	4976.4
47.5°	5023.0	5764.9	7347.8	8363.1	7493.1	5575.4	4800.8	5802.2	6070.8	5939.4
50°	5675.4	6381.3	8523.6	10043.6	9006.2	6254.6	5390.5	7045.4	7411.7	7262.9
52.5°	6548.8	7060.5	9819.1	11682.2	10655.3	7027.9	6245.3	8687.5	8808.5	8530.5
55°	7778.1	8040.9	11482.2	13705.8	12496.3	7980.4	7495.5	10748.4	10409.9	9613.3
57.5°	10577.4	9592.3	13617.5	16014.4	14579.2	9711.0	10235.5	13020.8	11817.1	10473.9
60°	12919.7	11476.4	15593.4	18305.5	16364.4	11618.3	12808.0	13416.3	11764.8	10378.5
62.5°	12130.0	11956.7	16306.3	18557.8	16973.8	12556.8	12330.0	12419.6	10997.2	9744.7
65°	10642.5	11029.8	15670.1	17361.1	16298.1	11716.0	11153.1	11498.5	10119.2	8857.3
67.5°	9764.5	10049.4	14538.5	15445.7	15070.0	10806.5	10237.8	9987.8	8756.2	7683.9
70°	8866.6	9102.7	12949.9	13041.8	13154.6	9294.6	8371.2	7626.9	6526.7	5776.6
72.5°	7661.8	7674.6	10941.4	10408.8	10622.8	7273.3	6738.4	5702.1	4750.8	4070.5
75°	6427.8	6076.6	8660.8	7275.7	7704.8	5657.9	5595.1	4297.2	3583.2	3024.9
77.5°	4900.8	4490.3	6326.7	4784.5	5411.4	3768.1	4206.5	2914.5	2521.4	2013.1
80°	3290.1	3034.2	3495.9	2700.5	3540.1	2597.0	2743.5	1651.4	1431.6	1110.7
82.5°	1735.2	1481.6	2160.8	1601.4	2135.2	1427.0	1029.2	510.6	435.0	351.2
85°	672.2	778.0	1059.5	569.9	828.0	509.4	297.7	126.8	105.8	80.2
87.5°	130.3	201.2	110.5	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)