

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: P637052

Luminaire Tested: GWS-SA4C-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637052
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-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: 13401.1 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: B2 - U0 - G3

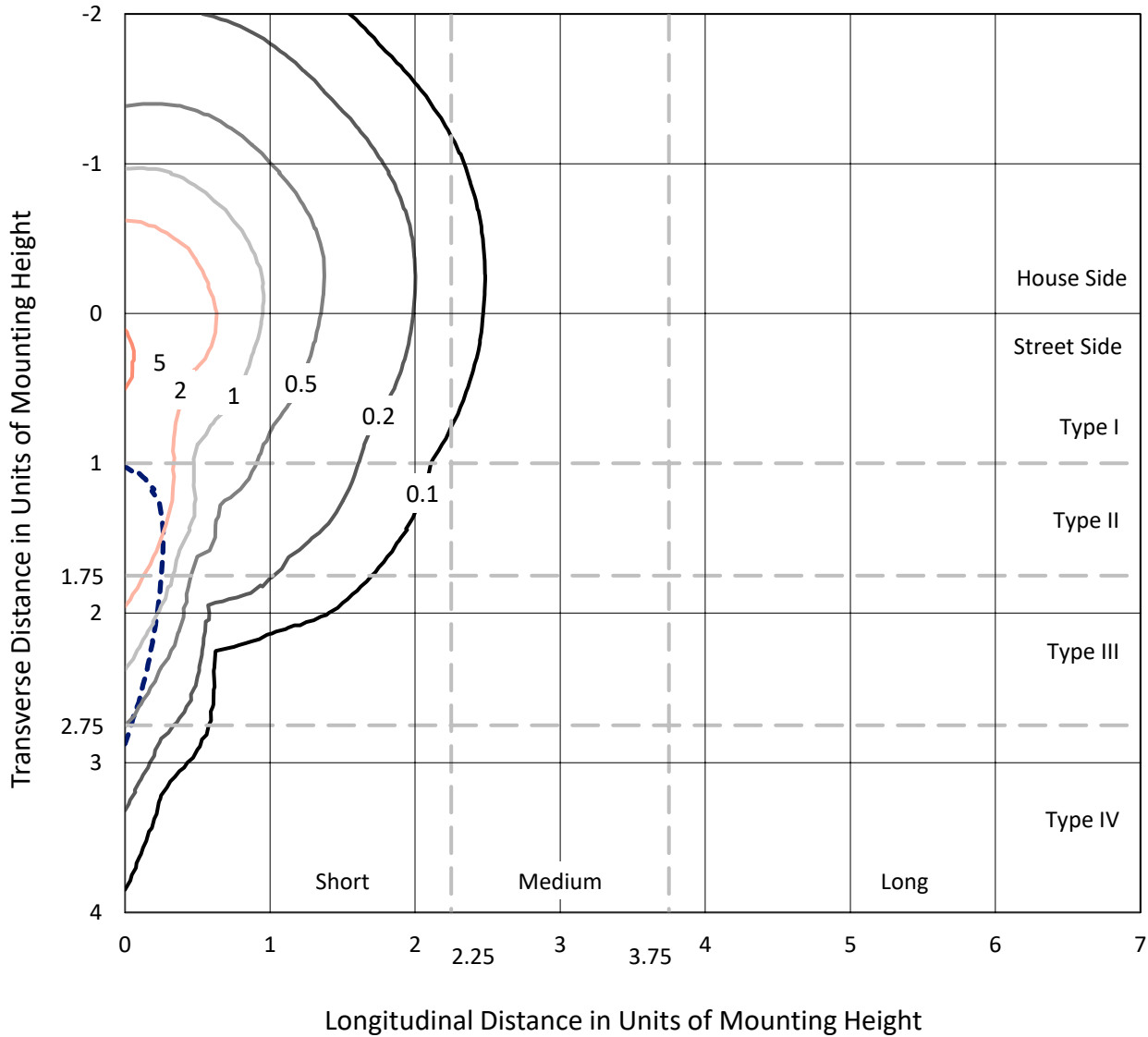
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

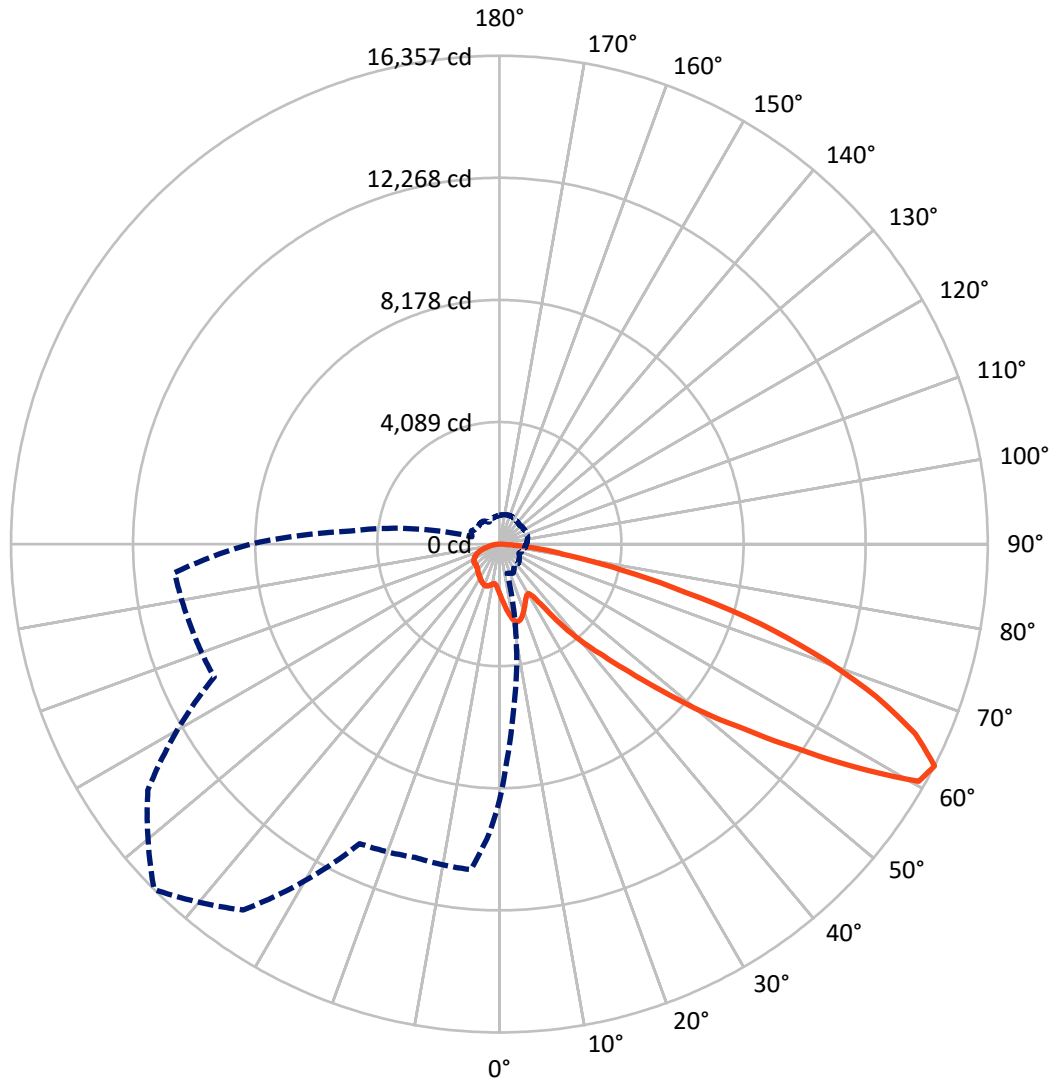
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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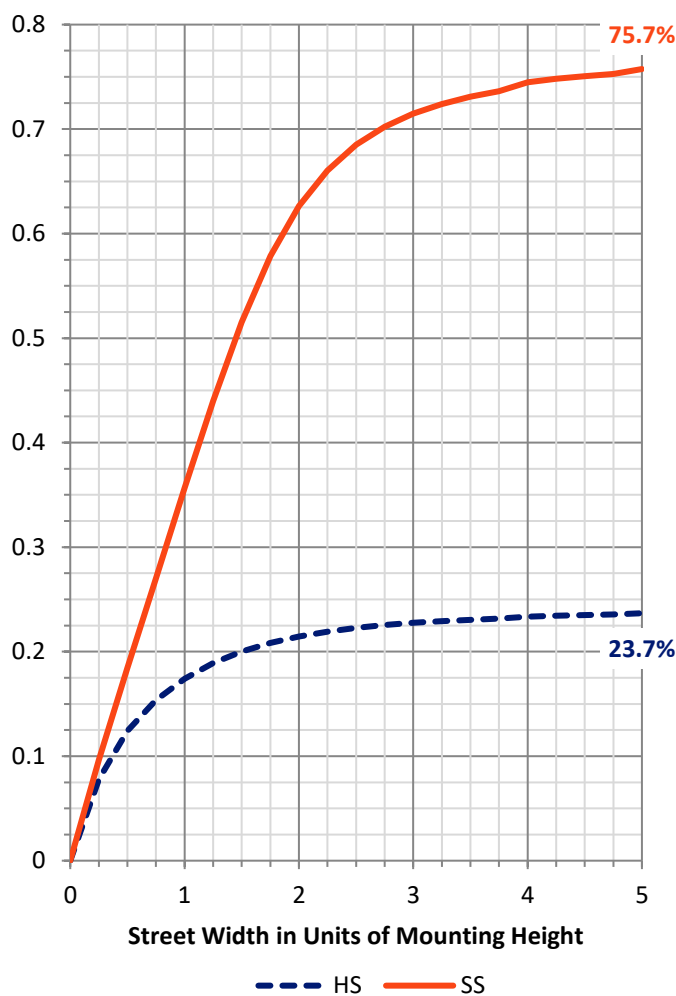
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3204.2	0.0	3204.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10196.9	0.0	10196.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	13401.1	0.0	13401.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.2
10°-20°	535.0	4.0
20°-30°	842.1	6.3
30°-40°	1154.3	8.6
40°-50°	1801.1	13.4
50°-60°	3105.4	23.2
60°-70°	3598.8	26.9
70°-80°	1899.6	14.2
80°-90°	300.1	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°	13401.1	100.0
0°-180°	13401.1	100.0

Coefficient of Utilization



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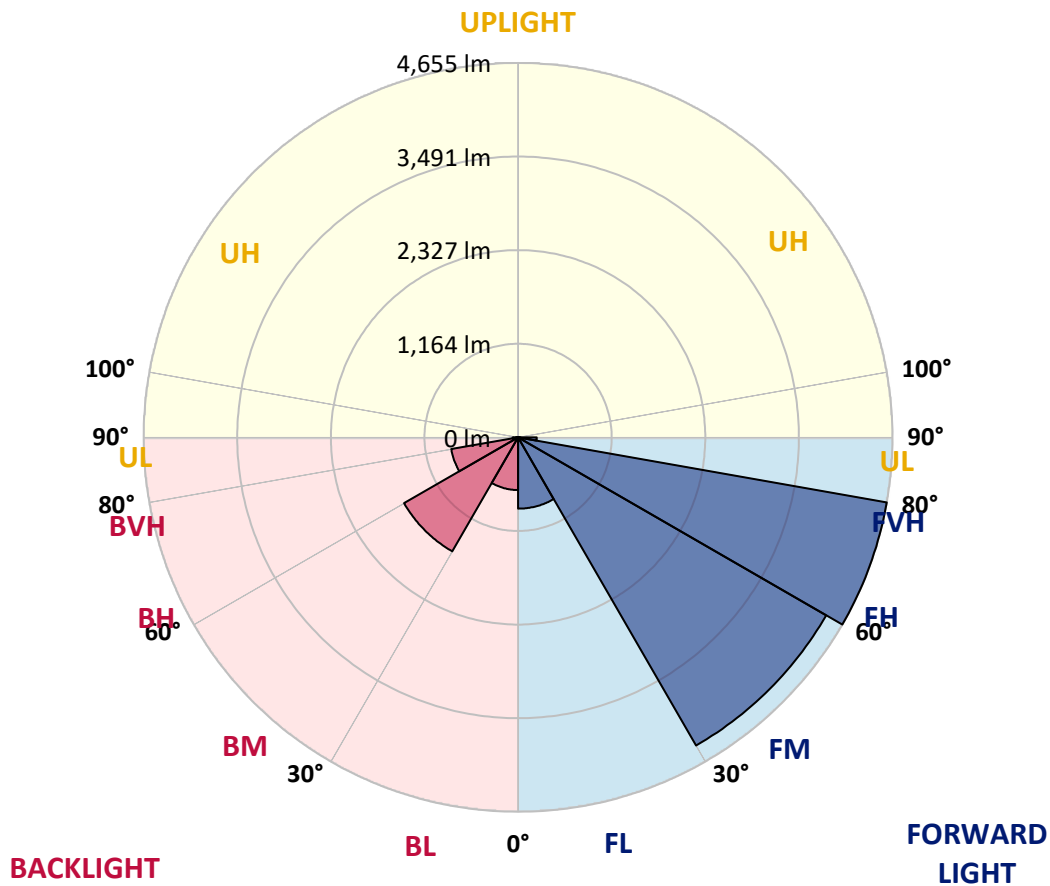
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.3	6.6			
FM (30°-60°)	4424.2	33.0			
FH (60°-80°)	4654.8	34.7			G2/5000
FVH (80°-90°)	231.6	1.7			G3/500
BL (0°-30°)	655.4	4.9	B2/1000		
BM (30°-60°)	1636.7	12.2	B2/2500		
BH (60°-80°)	843.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	68.5	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°	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8
2.5°	1815.4	1808.2	1797.9	1763.1	1741.6	1717.0	1691.3	1661.6	1627.8	1604.2	1580.6
5°	1969.1	1957.9	1933.3	1850.2	1792.8	1730.3	1678.0	1618.6	1560.1	1520.2	1480.2
7.5°	2116.7	2102.4	2064.5	1937.4	1844.1	1753.9	1674.9	1588.8	1501.7	1442.3	1395.1
10°	2264.3	2234.6	2186.4	2020.4	1897.4	1792.8	1702.6	1597.0	1481.2	1400.2	1350.0
12.5°	2377.1	2349.4	2297.1	2096.2	1950.7	1819.5	1718.0	1620.6	1522.2	1436.1	1384.8
15°	2482.7	2446.8	2387.4	2167.0	1994.8	1818.4	1687.2	1602.2	1587.8	1566.3	1499.7
17.5°	2558.5	2525.7	2464.2	2224.4	2019.4	1786.7	1602.2	1551.9	1616.5	1682.1	1618.6
20°	2625.2	2587.2	2524.7	2264.3	2024.5	1715.9	1498.6	1499.7	1601.1	1691.3	1676.0
22.5°	2681.5	2639.5	2584.2	2309.4	2022.4	1617.5	1408.4	1469.9	1571.4	1642.1	1644.2
25°	2751.2	2716.4	2670.3	2376.1	2022.4	1517.1	1342.8	1434.1	1521.2	1580.6	1578.6
27.5°	2836.3	2812.8	2774.8	2477.6	2040.9	1433.0	1305.9	1387.9	1456.6	1507.9	1506.8
30°	2931.7	2910.1	2881.4	2585.2	2072.7	1370.5	1285.4	1330.5	1380.7	1421.8	1421.8
32.5°	3029.0	3020.8	2990.1	2671.3	2048.1	1351.0	1268.0	1273.1	1299.8	1333.6	1330.5
35°	3164.3	3156.1	3117.2	2737.9	1941.5	1323.3	1240.3	1214.7	1217.8	1239.3	1246.5
37.5°	3362.2	3349.9	3292.5	2815.8	1780.5	1253.6	1195.2	1153.2	1144.0	1153.2	1166.5
40°	3601.0	3582.6	3504.7	2921.4	1595.0	1159.3	1124.5	1089.6	1074.3	1077.3	1092.7
42.5°	3900.3	3861.4	3749.7	3033.1	1411.5	1076.3	1045.6	1024.0	1006.6	1004.6	1034.3
45°	4386.2	4279.6	4102.3	3132.6	1256.7	1032.2	974.8	959.5	945.1	953.3	988.2
47.5°	5235.0	5038.1	4692.7	3217.6	1162.4	1033.3	918.4	902.0	901.0	917.4	956.4
50°	6401.5	6117.5	5584.5	3275.1	1113.2	1045.6	884.6	858.0	877.4	893.8	930.7
52.5°	7518.8	7085.2	6450.7	3274.0	1091.7	1047.6	893.8	817.0	877.4	881.5	916.4
55°	8473.1	7687.9	6684.4	2937.8	1060.9	1039.4	929.7	785.2	866.2	881.5	909.2
57.5°	9231.6	8071.3	6667.0	2373.0	1154.2	994.3	951.3	778.0	833.4	883.6	915.4
60°	9147.6	7896.0	6237.5	1456.6	1145.0	914.3	948.2	791.3	778.0	855.9	908.2
62.5°	8588.9	7267.6	5498.4	1010.7	1075.3	868.2	897.9	814.9	726.8	815.9	873.3
65°	7806.8	6456.8	4582.0	774.9	890.8	870.3	812.9	798.5	681.7	752.4	813.9
67.5°	6772.5	5451.2	3617.4	614.0	621.2	753.4	738.0	709.3	639.6	696.0	751.4
70°	5091.4	3978.2	2488.8	494.1	470.5	629.4	663.2	637.6	598.6	615.0	673.5
72.5°	3587.7	2597.5	1363.3	391.6	362.9	483.8	576.1	572.0	528.9	541.2	598.6
75°	2666.2	1837.9	851.8	309.6	295.2	346.5	482.8	495.1	459.2	473.6	517.7
77.5°	1774.4	1190.1	473.6	229.6	229.6	253.2	359.8	417.2	390.5	401.8	432.6
80°	978.9	605.8	236.8	150.7	154.8	174.3	262.4	300.3	301.4	329.0	337.2
82.5°	309.6	192.7	105.6	88.2	83.0	99.4	169.1	215.3	200.9	256.3	235.8
85°	70.7	45.1	19.5	19.5	21.5	32.8	64.6	114.8	146.6	176.3	128.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	45.1	66.6	59.5
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°	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8
2.5°	1566.3	1545.8	1539.6	1522.2	1520.2	1503.8	1497.6	1497.6	1504.8	1504.8	1512.0
5°	1463.8	1438.2	1423.8	1403.3	1398.2	1385.9	1377.7	1378.7	1387.9	1394.1	1406.4
7.5°	1373.6	1356.1	1345.9	1336.7	1334.6	1332.6	1323.3	1322.3	1325.4	1334.6	1343.8
10°	1335.6	1323.3	1326.4	1333.6	1344.9	1351.0	1342.8	1338.7	1335.6	1341.8	1350.0
12.5°	1372.5	1360.2	1366.4	1378.7	1394.1	1400.2	1397.1	1396.1	1399.2	1422.8	1440.2
15°	1453.5	1430.0	1421.8	1426.9	1439.2	1445.3	1442.3	1446.4	1465.8	1527.3	1571.4
17.5°	1554.0	1496.6	1463.8	1454.6	1459.7	1464.8	1464.8	1475.1	1508.9	1599.1	1654.4
20°	1608.3	1533.5	1478.1	1455.6	1457.6	1462.8	1462.8	1477.1	1515.0	1611.4	1647.3
22.5°	1594.0	1525.3	1457.6	1433.0	1434.1	1438.2	1438.2	1450.5	1484.3	1569.4	1585.8
25°	1537.6	1477.1	1410.5	1388.9	1391.0	1398.2	1396.1	1403.3	1428.9	1498.6	1507.9
27.5°	1469.9	1416.6	1351.0	1334.6	1343.8	1358.2	1345.9	1346.9	1370.5	1428.9	1430.0
30°	1397.1	1353.1	1294.6	1282.3	1299.8	1306.9	1295.7	1295.7	1319.2	1359.2	1358.2
32.5°	1318.2	1290.5	1248.5	1235.2	1254.7	1265.9	1251.6	1253.6	1272.1	1298.7	1288.5
35°	1244.4	1230.1	1210.6	1201.4	1213.7	1223.9	1214.7	1218.8	1236.2	1243.4	1229.0
37.5°	1173.7	1171.6	1173.7	1173.7	1176.8	1179.8	1173.7	1183.9	1199.3	1190.1	1173.7
40°	1112.2	1120.4	1139.9	1134.7	1131.7	1134.7	1130.6	1148.1	1163.4	1147.0	1127.6
42.5°	1060.9	1076.3	1106.0	1106.0	1099.9	1101.9	1099.9	1121.4	1132.7	1110.1	1088.6
45°	1016.9	1039.4	1077.3	1082.5	1072.2	1072.2	1076.3	1103.0	1107.1	1076.3	1053.8
47.5°	986.1	1013.8	1056.8	1066.1	1050.7	1049.7	1060.9	1089.6	1089.6	1053.8	1028.1
50°	964.6	995.3	1046.6	1058.9	1043.5	1039.4	1057.9	1085.5	1079.4	1036.3	1010.7
52.5°	950.2	982.0	1045.6	1063.0	1052.7	1048.6	1067.1	1086.6	1071.2	1025.1	998.4
55°	941.0	975.9	1048.6	1063.0	1051.7	1044.5	1063.0	1080.4	1072.2	1018.9	993.3
57.5°	946.1	981.0	1044.5	1051.7	1038.4	1026.1	1047.6	1072.2	1069.1	1021.0	995.3
60°	937.9	969.7	1022.0	1024.0	1001.5	982.0	1013.8	1050.7	1050.7	1013.8	991.2
62.5°	900.0	931.8	977.9	980.0	954.3	932.8	969.7	1013.8	1012.8	983.0	959.5
65°	837.5	867.2	919.5	924.6	899.0	876.4	914.3	955.4	958.4	931.8	911.3
67.5°	768.8	795.4	834.4	854.9	833.4	809.8	844.6	883.6	882.6	850.8	829.3
70°	686.8	711.4	747.3	764.7	751.4	728.8	760.6	781.1	771.9	756.5	742.1
72.5°	605.8	629.4	663.2	663.2	648.9	627.3	636.6	673.5	684.7	673.5	664.2
75°	520.7	541.2	564.8	569.9	538.2	499.2	542.3	574.0	587.4	582.2	571.0
77.5°	433.6	449.0	483.8	474.6	415.1	394.6	429.5	476.7	485.9	482.8	467.4
80°	334.2	343.4	380.3	361.8	315.7	302.4	317.8	354.7	356.7	346.5	327.0
82.5°	224.5	236.8	261.4	225.5	224.5	212.2	199.9	204.0	222.4	220.4	207.1
85°	114.8	121.0	144.5	135.3	115.8	100.5	95.3	101.5	91.2	83.0	71.8
87.5°	48.2	52.3	71.8	40.0	12.3	0.0	0.0	6.2	9.2	13.3	14.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8
2.5°	1528.4	1539.6	1567.3	1602.2	1636.0	1670.8	1708.8	1732.3	1761.0	1797.9	1799.0
5°	1421.8	1447.4	1487.4	1540.7	1596.0	1659.6	1733.4	1794.9	1868.7	1927.1	1950.7
7.5°	1356.1	1393.0	1443.3	1510.9	1583.7	1662.6	1759.0	1862.5	1983.5	2061.4	2107.5
10°	1362.3	1418.7	1468.9	1526.3	1591.9	1677.0	1801.0	1938.4	2087.0	2189.5	2246.9
12.5°	1472.0	1531.4	1522.2	1519.1	1563.2	1666.7	1834.8	2015.3	2196.7	2299.2	2367.9
15°	1610.4	1632.9	1545.8	1480.2	1506.8	1629.8	1853.3	2083.9	2287.9	2413.0	2480.6
17.5°	1681.1	1636.0	1530.4	1432.0	1424.8	1573.5	1862.5	2153.6	2390.4	2515.5	2587.2
20°	1648.3	1582.7	1493.5	1400.2	1349.0	1496.6	1857.4	2209.0	2483.7	2623.1	2681.5
22.5°	1577.6	1520.2	1450.5	1361.3	1287.5	1412.5	1844.1	2264.3	2566.7	2707.2	2758.4
25°	1500.7	1457.6	1400.2	1322.3	1252.6	1338.7	1834.8	2338.2	2662.1	2796.4	2829.2
27.5°	1423.8	1392.0	1344.9	1284.4	1244.4	1287.5	1837.9	2434.5	2785.1	2912.2	2898.9
30°	1347.9	1320.3	1287.5	1260.8	1243.4	1275.2	1829.7	2537.0	2920.4	3038.3	2959.3
32.5°	1276.2	1250.6	1230.1	1234.2	1244.4	1280.3	1787.7	2630.3	3044.4	3144.9	3024.9
35°	1214.7	1188.0	1188.0	1202.4	1240.3	1262.9	1679.0	2703.1	3181.8	3282.2	3118.2
37.5°	1157.3	1133.7	1149.1	1172.7	1208.5	1215.7	1539.6	2773.8	3381.7	3476.0	3262.8
40°	1107.1	1083.5	1111.2	1140.9	1159.3	1156.3	1398.2	2872.2	3617.4	3714.8	3454.4
42.5°	1067.1	1045.6	1070.2	1108.1	1111.2	1114.2	1294.6	2966.5	3891.1	4015.1	3784.5
45°	1034.3	1018.9	1031.2	1069.1	1069.1	1116.3	1230.1	3045.4	4303.2	4522.5	4390.3
47.5°	1008.7	999.4	1005.6	1017.9	1038.4	1153.2	1189.1	3105.9	5053.5	5484.0	5350.8
50°	994.3	985.1	993.3	967.7	1029.2	1171.6	1175.7	3152.0	6042.7	6717.2	6552.2
52.5°	982.0	978.9	984.1	924.6	1049.7	1159.3	1165.5	3090.5	6705.9	7930.9	8093.8
55°	977.9	980.0	955.4	892.8	1074.3	1118.3	1134.7	2650.8	6886.3	8977.4	9989.2
57.5°	980.0	973.8	911.3	895.9	1075.3	1036.3	1178.8	1891.2	6623.9	9432.6	11843.5
60°	972.8	942.0	858.0	923.6	1028.1	940.0	1147.0	1233.1	5932.0	9083.0	11951.1
62.5°	941.0	895.9	811.8	939.0	944.1	882.6	1041.5	950.2	5009.4	8334.7	10913.8
65°	894.9	834.4	772.9	907.2	859.0	855.9	783.1	761.6	4028.5	7443.9	9929.7
67.5°	819.0	758.5	744.2	834.4	772.9	758.5	629.4	631.4	3214.6	6494.7	8940.5
70°	732.9	672.4	683.7	754.4	687.8	630.4	509.5	525.9	2438.6	5411.3	7606.9
72.5°	676.5	595.6	596.6	664.2	604.8	510.5	419.2	433.6	1547.8	4078.7	6047.8
75°	571.0	524.8	502.3	538.2	513.6	397.7	352.6	349.5	917.4	2923.5	4528.7
77.5°	476.7	440.8	429.5	443.8	383.4	294.2	283.9	278.8	519.7	1872.8	2967.5
80°	345.4	336.2	335.2	342.4	295.2	216.3	216.3	217.3	279.8	1016.9	1672.9
82.5°	219.4	239.9	212.2	235.8	200.9	153.8	143.5	163.0	160.9	433.6	705.2
85°	91.2	125.1	116.9	124.0	95.3	84.1	90.2	97.4	93.3	167.1	274.7
87.5°	17.4	20.5	22.6	21.5	21.5	26.7	29.7	35.9	35.9	48.2	83.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8
2.5°	1837.9	1867.7	1861.5	1874.8	1857.4	1863.6	1828.7	1819.5	1813.3	1815.4
5°	2026.5	2087.0	2098.3	2120.8	2105.5	2105.5	2044.0	1997.8	1981.4	1969.1
7.5°	2218.2	2305.3	2362.8	2368.9	2360.7	2344.3	2255.1	2172.1	2142.4	2116.7
10°	2388.4	2492.9	2557.5	2588.3	2572.9	2547.3	2436.6	2322.8	2286.9	2264.3
12.5°	2518.6	2610.8	2653.9	2674.4	2672.3	2663.1	2572.9	2449.9	2412.0	2377.1
15°	2602.6	2648.7	2632.3	2631.3	2645.7	2682.6	2654.9	2558.5	2514.5	2482.7
17.5°	2656.9	2612.9	2540.1	2506.3	2537.0	2624.1	2687.7	2633.4	2593.4	2558.5
20°	2676.4	2519.6	2414.0	2351.5	2387.4	2513.4	2670.3	2687.7	2653.9	2625.2
22.5°	2653.9	2405.8	2262.3	2188.5	2223.3	2374.0	2619.0	2731.8	2709.2	2681.5
25°	2598.5	2286.9	2114.7	2048.1	2086.0	2239.7	2527.8	2772.8	2773.8	2751.2
27.5°	2529.8	2177.2	2011.2	1948.6	1985.5	2129.0	2438.6	2808.7	2844.5	2836.3
30°	2460.1	2111.6	1962.0	1917.9	1945.6	2072.7	2347.4	2845.6	2917.3	2931.7
32.5°	2428.4	2143.4	2077.8	2097.3	2061.4	2105.5	2314.6	2897.8	3005.5	3029.0
35°	2470.4	2425.3	2591.3	2668.2	2541.1	2374.0	2356.6	2976.8	3129.5	3164.3
37.5°	2674.4	3029.0	3277.1	3547.7	3327.3	2959.3	2564.7	3111.0	3306.8	3362.2
40°	3118.2	3555.9	4003.9	4353.4	4020.3	3525.2	2960.4	3310.9	3550.8	3601.0
42.5°	3536.4	4050.0	4667.1	5119.1	4686.6	3987.5	3386.8	3647.1	3872.7	3900.3
45°	3946.5	4534.8	5469.7	6098.1	5510.7	4427.2	3822.4	4215.0	4385.2	4386.2
47.5°	4427.2	5081.2	6476.3	7371.2	6604.4	4914.1	4231.4	5114.0	5350.8	5235.0
50°	5002.3	5624.5	7512.6	8852.4	7938.0	5512.7	4751.1	6209.8	6532.7	6401.5
52.5°	5772.1	6223.1	8654.5	10296.7	9391.6	6194.4	5504.5	7657.2	7763.8	7518.8
55°	6855.6	7087.2	10120.4	12080.3	11014.2	7033.9	6606.5	9473.6	9175.3	8473.1
57.5°	9322.9	8454.7	12002.4	14115.0	12850.1	8559.2	9021.5	11476.5	10415.6	9231.6
60°	11387.3	10115.2	13743.9	16134.4	14423.5	10240.3	11288.9	11825.0	10369.5	9147.6
62.5°	10691.3	10538.6	14372.3	16356.8	14960.7	11067.5	10867.6	10946.6	9692.9	8588.9
65°	9380.3	9721.6	13811.6	15302.0	14365.1	10326.4	9830.3	10134.7	8919.0	7806.8
67.5°	8606.4	8857.5	12814.2	13613.8	13282.7	9524.8	9023.6	8803.2	7717.6	6772.5
70°	7815.0	8023.1	11414.0	11495.0	11594.4	8192.2	7378.3	6722.3	5752.6	5091.4
72.5°	6753.1	6764.3	9643.7	9174.2	9362.9	6410.7	5939.2	5025.8	4187.3	3587.7
75°	5665.5	5355.9	7633.6	6412.7	6791.0	4986.9	4931.5	3787.6	3158.2	2666.2
77.5°	4319.6	3957.7	5576.3	4217.1	4769.6	3321.2	3707.6	2568.8	2222.3	1774.4
80°	2899.9	2674.4	3081.3	2380.2	3120.3	2288.9	2418.1	1455.6	1261.8	978.9
82.5°	1529.4	1305.9	1904.6	1411.5	1882.0	1257.7	907.2	450.0	383.4	309.6
85°	592.5	685.8	933.8	502.3	729.8	449.0	262.4	111.7	93.3	70.7
87.5°	114.8	177.3	97.4	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)