

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: P633312

Luminaire Tested: GWS-SA2E-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633312
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-SA2E-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: 13675.3 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

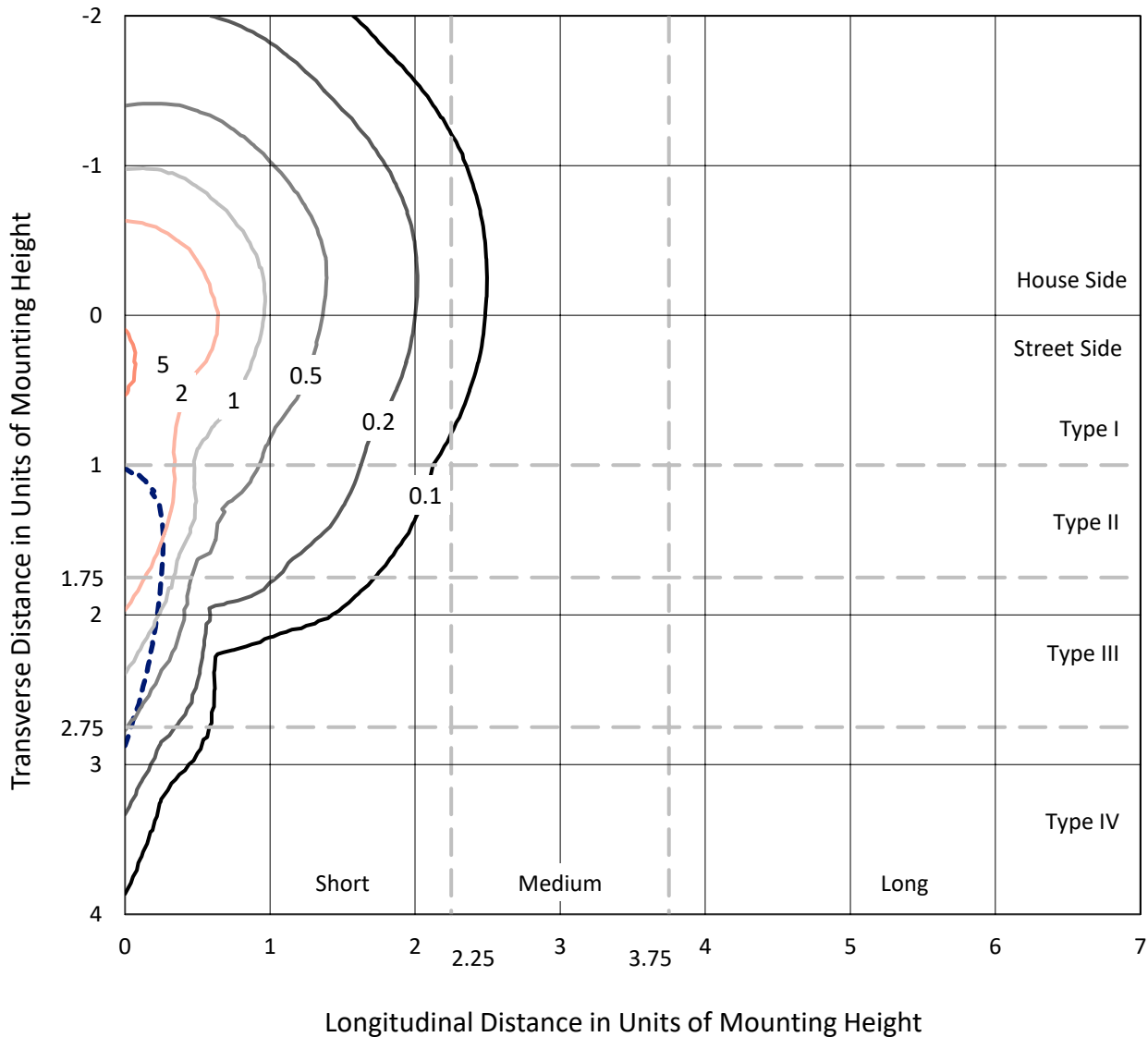
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

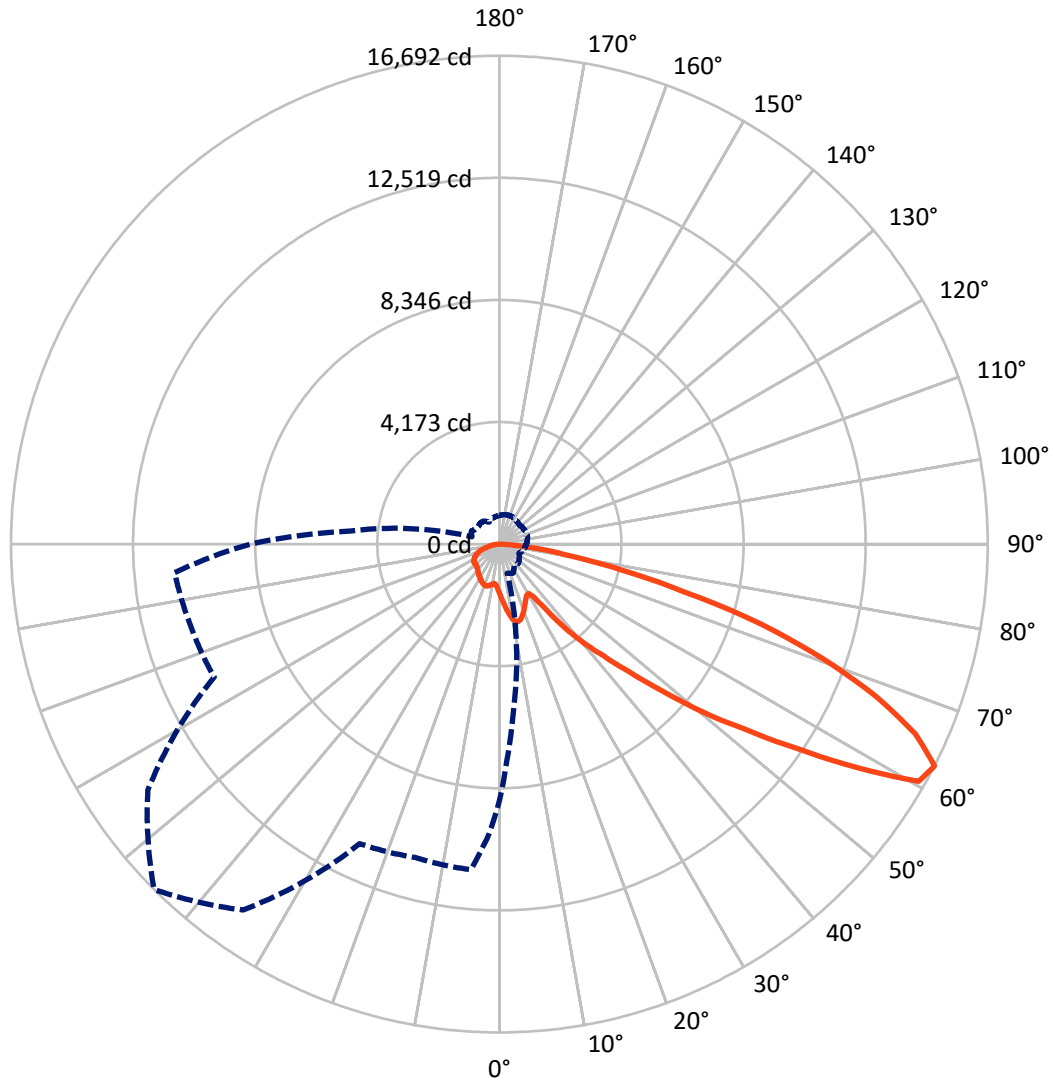
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	3269.8	0.0	3269.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10405.5	0.0	10405.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	13675.3	0.0	13675.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.2
10°-20°	545.9	4.0
20°-30°	859.4	6.3
30°-40°	1177.9	8.6
40°-50°	1838.0	13.4
50°-60°	3169.0	23.2
60°-70°	3672.5	26.9
70°-80°	1938.5	14.2
80°-90°	306.2	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°	13675.3	100.0
0°-180°	13675.3	100.0

Coefficient of Utilization



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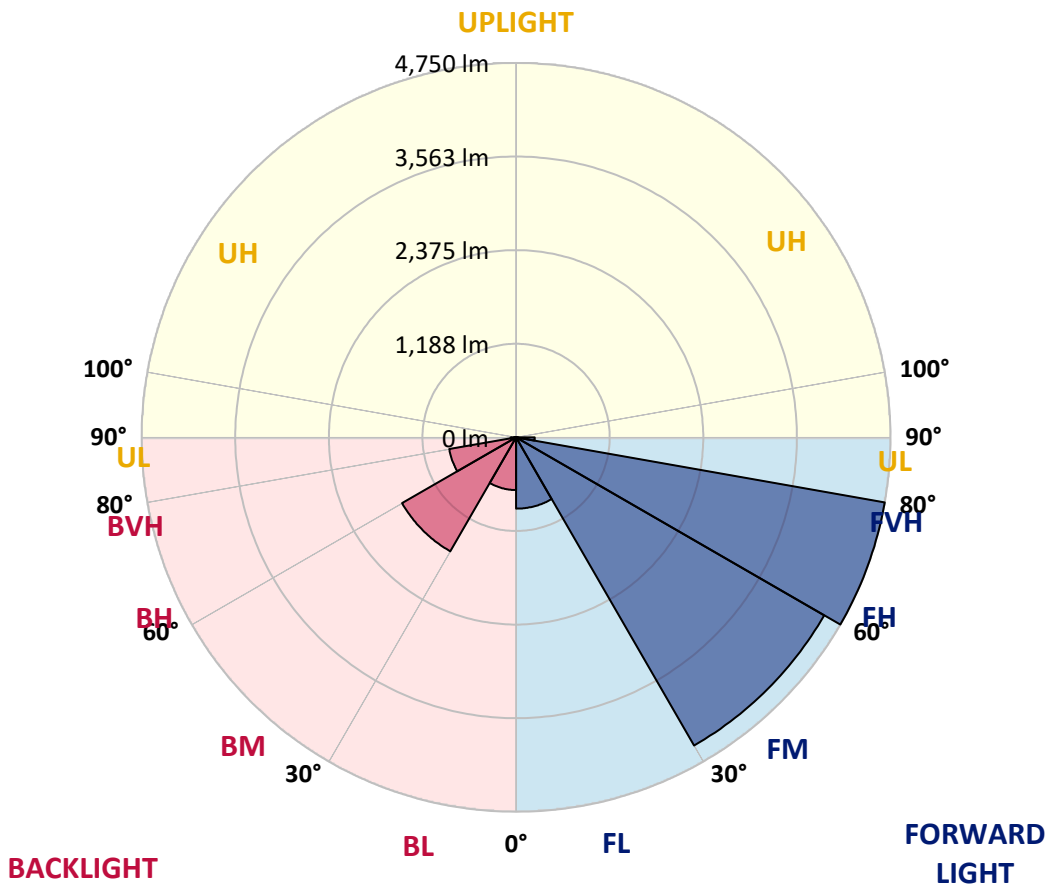
CATALOG NUMBER: GWS-SA2E-740-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.5	6.6			
FM (30°-60°)	4514.7	33.0			
FH (60°-80°)	4750.0	34.7			G2/5000
FVH (80°-90°)	236.4	1.7			G3/500
BL (0°-30°)	668.8	4.9	B2/1000		
BM (30°-60°)	1670.2	12.2	B2/2500		
BH (60°-80°)	860.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.9	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°	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0
2.5°	1852.5	1845.2	1834.7	1799.2	1777.2	1752.1	1725.9	1695.6	1661.1	1637.0	1613.0
5°	2009.4	1997.9	1972.8	1888.1	1829.5	1765.7	1712.3	1651.7	1592.1	1551.3	1510.5
7.5°	2160.0	2145.4	2106.7	1977.0	1881.8	1789.8	1709.2	1621.3	1532.4	1471.8	1423.6
10°	2310.7	2280.3	2231.2	2061.7	1936.2	1829.5	1737.5	1629.7	1511.5	1428.9	1377.6
12.5°	2425.7	2397.5	2344.2	2139.1	1990.6	1856.7	1753.1	1653.8	1553.4	1465.5	1413.2
15°	2533.5	2496.9	2436.2	2211.3	2035.6	1855.7	1721.8	1634.9	1620.3	1598.3	1530.3
17.5°	2610.9	2577.4	2514.7	2269.9	2060.7	1823.2	1634.9	1583.7	1649.6	1716.5	1651.7
20°	2678.9	2640.2	2576.4	2310.7	2065.9	1751.1	1529.3	1530.3	1633.9	1725.9	1710.3
22.5°	2736.4	2693.5	2637.0	2356.7	2063.8	1650.6	1437.2	1500.0	1603.6	1675.7	1677.8
25°	2807.5	2772.0	2724.9	2424.7	2063.8	1548.1	1370.3	1463.4	1552.3	1613.0	1610.9
27.5°	2894.4	2870.3	2831.6	2528.3	2082.6	1462.3	1332.6	1416.3	1486.4	1538.7	1537.7
30°	2991.6	2969.7	2940.4	2638.1	2115.1	1398.5	1311.7	1357.7	1409.0	1450.8	1450.8
32.5°	3091.0	3082.6	3051.3	2726.0	2090.0	1378.7	1293.9	1299.2	1326.4	1360.9	1357.7
35°	3229.1	3220.7	3181.0	2793.9	1981.2	1350.4	1265.7	1239.5	1242.7	1264.6	1272.0
37.5°	3431.0	3418.4	3359.8	2873.4	1817.0	1279.3	1219.7	1176.8	1167.4	1176.8	1190.4
40°	3674.7	3655.9	3576.4	2981.2	1627.6	1183.1	1147.5	1111.9	1096.2	1099.4	1115.1
42.5°	3980.1	3940.4	3826.4	3095.2	1440.4	1098.3	1066.9	1045.0	1027.2	1025.1	1055.4
45°	4476.0	4367.2	4186.2	3196.7	1282.4	1053.4	994.8	979.1	964.4	972.8	1008.4
47.5°	5342.1	5141.2	4788.7	3283.5	1186.2	1054.4	937.2	920.5	919.5	936.2	975.9
50°	6532.4	6242.7	5698.8	3342.1	1136.0	1066.9	902.7	875.5	895.4	912.1	949.8
52.5°	7672.6	7230.2	6582.7	3341.0	1114.0	1069.0	912.1	833.7	895.4	899.6	935.1
55°	8646.5	7845.2	6821.2	2997.9	1082.6	1060.7	948.7	801.3	883.9	899.6	927.8
57.5°	9420.5	8236.4	6803.4	2421.6	1177.8	1014.6	970.7	793.9	850.4	901.7	934.1
60°	9334.8	8057.6	6365.1	1486.4	1168.4	933.1	967.6	807.5	793.9	873.4	926.8
62.5°	8764.7	7416.3	5610.9	1031.4	1097.3	886.0	916.3	831.6	741.6	832.6	891.2
65°	7966.6	6588.9	4675.7	790.8	909.0	888.1	829.5	814.9	695.6	767.8	830.5
67.5°	6911.1	5562.8	3691.4	626.6	633.9	768.8	753.1	723.9	652.7	710.3	766.7
70°	5195.6	4059.6	2539.8	504.2	480.1	642.3	676.8	650.6	610.9	627.6	687.2
72.5°	3661.1	2650.6	1391.2	399.6	370.3	493.7	587.9	583.7	539.8	552.3	610.9
75°	2720.7	1875.5	869.2	315.9	301.3	353.6	492.7	505.2	468.6	483.3	528.2
77.5°	1810.7	1214.4	483.3	234.3	234.3	258.4	367.2	425.7	398.5	410.0	441.4
80°	999.0	618.2	241.6	153.8	158.0	177.8	267.8	306.5	307.5	335.8	344.1
82.5°	315.9	196.7	107.7	90.0	84.7	101.5	172.6	219.7	205.0	261.5	240.6
85°	72.2	46.0	19.9	19.9	22.0	33.5	65.9	117.2	149.6	179.9	130.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	46.0	68.0	60.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0
2.5°	1598.3	1577.4	1571.1	1553.4	1551.3	1534.5	1528.2	1528.2	1535.6	1535.6	1542.9
5°	1493.7	1467.6	1452.9	1432.0	1426.8	1414.2	1405.9	1406.9	1416.3	1422.6	1435.2
7.5°	1401.7	1383.9	1373.4	1364.0	1361.9	1359.8	1350.4	1349.4	1352.5	1361.9	1371.3
10°	1363.0	1350.4	1353.6	1360.9	1372.4	1378.7	1370.3	1366.1	1363.0	1369.3	1377.6
12.5°	1400.6	1388.1	1394.4	1406.9	1422.6	1428.9	1425.7	1424.7	1427.8	1451.9	1469.7
15°	1483.3	1459.2	1450.8	1456.1	1468.6	1474.9	1471.8	1475.9	1495.8	1558.6	1603.6
17.5°	1585.8	1527.2	1493.7	1484.3	1489.5	1494.8	1494.8	1505.2	1539.8	1631.8	1688.3
20°	1641.2	1564.9	1508.4	1485.4	1487.5	1492.7	1492.7	1507.3	1546.0	1644.4	1681.0
22.5°	1626.6	1556.5	1487.5	1462.3	1463.4	1467.6	1467.6	1480.1	1514.6	1601.5	1618.2
25°	1569.0	1507.3	1439.3	1417.4	1419.5	1426.8	1424.7	1432.0	1458.2	1529.3	1538.7
27.5°	1500.0	1445.6	1378.7	1361.9	1371.3	1386.0	1373.4	1374.5	1398.5	1458.2	1459.2
30°	1425.7	1380.8	1321.1	1308.6	1326.4	1333.7	1322.2	1322.2	1346.2	1387.0	1386.0
32.5°	1345.2	1317.0	1274.1	1260.5	1280.3	1291.8	1277.2	1279.3	1298.1	1325.3	1314.9
35°	1269.9	1255.2	1235.4	1225.9	1238.5	1249.0	1239.5	1243.7	1261.5	1268.8	1254.2
37.5°	1197.7	1195.6	1197.7	1197.7	1200.8	1204.0	1197.7	1208.2	1223.9	1214.4	1197.7
40°	1134.9	1143.3	1163.2	1158.0	1154.8	1158.0	1153.8	1171.6	1187.2	1170.5	1150.6
42.5°	1082.6	1098.3	1128.7	1128.7	1122.4	1124.5	1122.4	1144.4	1155.9	1132.8	1110.9
45°	1037.7	1060.7	1099.4	1104.6	1094.1	1094.1	1098.3	1125.5	1129.7	1098.3	1075.3
47.5°	1006.3	1034.5	1078.5	1087.9	1072.2	1071.1	1082.6	1111.9	1111.9	1075.3	1049.2
50°	984.3	1015.7	1068.0	1080.5	1064.9	1060.7	1079.5	1107.7	1101.5	1057.5	1031.4
52.5°	969.7	1002.1	1066.9	1084.7	1074.3	1070.1	1088.9	1108.8	1093.1	1046.0	1018.8
55°	960.3	995.8	1070.1	1084.7	1073.2	1065.9	1084.7	1102.5	1094.1	1039.8	1013.6
57.5°	965.5	1001.0	1065.9	1073.2	1059.6	1047.1	1069.0	1094.1	1091.0	1041.8	1015.7
60°	957.1	989.5	1042.9	1045.0	1022.0	1002.1	1034.5	1072.2	1072.2	1034.5	1011.5
62.5°	918.4	950.8	997.9	1000.0	973.9	951.9	989.5	1034.5	1033.5	1003.1	979.1
65°	854.6	884.9	938.3	943.5	917.4	894.4	933.1	974.9	978.0	950.8	929.9
67.5°	784.5	811.7	851.5	872.4	850.4	826.4	861.9	901.7	900.6	868.2	846.2
70°	700.8	725.9	762.6	780.3	766.7	743.7	776.2	797.1	787.7	772.0	757.3
72.5°	618.2	642.3	676.8	676.8	662.1	640.2	649.6	687.2	698.7	687.2	677.8
75°	531.4	552.3	576.4	581.6	549.2	509.4	553.3	585.8	599.4	594.1	582.6
77.5°	442.5	458.2	493.7	484.3	423.6	402.7	438.3	486.4	495.8	492.7	477.0
80°	341.0	350.4	388.1	369.2	322.2	308.6	324.3	361.9	364.0	353.6	333.7
82.5°	229.1	241.6	266.7	230.1	229.1	216.5	204.0	208.2	227.0	224.9	211.3
85°	117.2	123.4	147.5	138.1	118.2	102.5	97.3	103.6	93.1	84.7	73.2
87.5°	49.2	53.3	73.2	40.8	12.6	0.0	0.0	6.3	9.4	13.6	14.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0
2.5°	1559.6	1571.1	1599.4	1634.9	1669.5	1705.0	1743.7	1767.8	1797.1	1834.7	1835.8
5°	1450.8	1477.0	1517.8	1572.2	1628.7	1693.5	1768.8	1831.6	1906.9	1966.5	1990.6
7.5°	1383.9	1421.6	1472.8	1541.8	1616.1	1696.7	1795.0	1900.6	2024.1	2103.6	2150.6
10°	1390.2	1447.7	1499.0	1557.5	1624.5	1711.3	1837.9	1978.0	2129.7	2234.3	2292.9
12.5°	1502.1	1562.8	1553.4	1550.2	1595.2	1700.8	1872.4	2056.5	2241.6	2346.2	2416.3
15°	1643.3	1666.3	1577.4	1510.5	1537.7	1663.2	1891.2	2126.6	2334.7	2462.4	2531.4
17.5°	1715.5	1669.5	1561.7	1461.3	1454.0	1605.7	1900.6	2197.7	2439.3	2567.0	2640.2
20°	1682.0	1615.1	1524.1	1428.9	1376.6	1527.2	1895.4	2254.2	2534.5	2676.8	2736.4
22.5°	1609.8	1551.3	1480.1	1389.1	1313.8	1441.4	1881.8	2310.7	2619.3	2762.6	2814.9
25°	1531.4	1487.5	1428.9	1349.4	1278.2	1366.1	1872.4	2386.0	2716.5	2853.6	2887.0
27.5°	1452.9	1420.5	1372.4	1310.7	1269.9	1313.8	1875.5	2484.3	2842.1	2971.8	2958.2
30°	1375.5	1347.3	1313.8	1286.6	1268.8	1301.3	1867.2	2588.9	2980.1	3100.4	3019.9
32.5°	1302.3	1276.2	1255.2	1259.4	1269.9	1306.5	1824.3	2684.1	3106.7	3209.2	3086.8
35°	1239.5	1212.3	1212.3	1227.0	1265.7	1288.7	1713.4	2758.4	3246.9	3349.4	3182.0
37.5°	1181.0	1156.9	1172.6	1196.7	1233.3	1240.6	1571.1	2830.6	3450.8	3547.1	3329.5
40°	1129.7	1105.7	1133.9	1164.2	1183.1	1179.9	1426.8	2931.0	3691.4	3790.8	3525.1
42.5°	1088.9	1066.9	1092.1	1130.8	1133.9	1137.0	1321.1	3027.2	3970.7	4097.3	3861.9
45°	1055.4	1039.8	1052.3	1091.0	1091.0	1139.1	1255.2	3107.8	4391.2	4615.1	4480.1
47.5°	1029.3	1019.9	1026.2	1038.7	1059.6	1176.8	1213.4	3169.5	5156.9	5596.3	5460.3
50°	1014.6	1005.2	1013.6	987.5	1050.2	1195.6	1199.8	3216.5	6166.3	6854.6	6686.2
52.5°	1002.1	999.0	1004.2	943.5	1071.1	1183.1	1189.3	3153.8	6843.1	8093.1	8259.4
55°	997.9	1000.0	974.9	911.1	1096.2	1141.2	1158.0	2705.0	7027.2	9161.1	10193.5
57.5°	1000.0	993.7	929.9	914.2	1097.3	1057.5	1202.9	1929.9	6759.4	9625.6	12085.8
60°	992.7	961.3	875.5	942.5	1049.2	959.2	1170.5	1258.4	6053.4	9268.9	12195.6
62.5°	960.3	914.2	828.5	958.2	963.4	900.6	1062.8	969.7	5111.9	8505.3	11137.1
65°	913.2	851.5	788.7	925.7	876.6	873.4	799.2	777.2	4110.9	7596.3	10132.9
67.5°	835.8	774.1	759.4	851.5	788.7	774.1	642.3	644.4	3280.3	6627.6	9123.5
70°	747.9	686.2	697.7	769.9	701.9	643.3	519.9	536.6	2488.5	5522.0	7762.6
72.5°	690.4	607.7	608.8	677.8	617.2	520.9	427.8	442.5	1579.5	4162.1	6171.6
75°	582.6	535.6	512.6	549.2	524.1	405.9	359.8	356.7	936.2	2983.3	4621.4
77.5°	486.4	449.8	438.3	452.9	391.2	300.2	289.7	284.5	530.3	1911.1	3028.3
80°	352.5	343.1	342.1	349.4	301.3	220.7	220.7	221.8	285.6	1037.7	1707.1
82.5°	223.9	244.8	216.5	240.6	205.0	156.9	146.4	166.3	164.2	442.5	719.7
85°	93.1	127.6	119.2	126.6	97.3	85.8	92.1	99.4	95.2	170.5	280.3
87.5°	17.8	20.9	23.0	22.0	22.0	27.2	30.3	36.6	36.6	49.2	84.7
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°	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0	1705.0
2.5°	1875.5	1905.9	1899.6	1913.2	1895.4	1901.7	1866.1	1856.7	1850.4	1852.5
5°	2068.0	2129.7	2141.2	2164.2	2148.5	2148.5	2085.8	2038.7	2022.0	2009.4
7.5°	2263.6	2352.5	2411.1	2417.4	2409.0	2392.3	2301.3	2216.5	2186.2	2160.0
10°	2437.2	2543.9	2609.8	2641.2	2625.5	2599.4	2486.4	2370.3	2333.7	2310.7
12.5°	2570.1	2664.2	2708.2	2729.1	2727.0	2717.6	2625.5	2500.0	2461.3	2425.7
15°	2655.9	2702.9	2686.2	2685.2	2699.8	2737.5	2709.2	2610.9	2565.9	2533.5
17.5°	2711.3	2666.3	2592.1	2557.5	2588.9	2677.8	2742.7	2687.2	2646.5	2610.9
20°	2731.2	2571.1	2463.4	2399.6	2436.2	2564.9	2724.9	2742.7	2708.2	2678.9
22.5°	2708.2	2455.0	2308.6	2233.3	2268.8	2422.6	2672.6	2787.7	2764.7	2736.4
25°	2651.7	2333.7	2158.0	2090.0	2128.7	2285.6	2579.5	2829.5	2830.6	2807.5
27.5°	2581.6	2221.8	2052.3	1988.5	2026.2	2172.6	2488.5	2866.1	2902.7	2894.4
30°	2510.5	2154.8	2002.1	1957.1	1985.4	2115.1	2395.4	2903.8	2977.0	2991.6
32.5°	2478.0	2187.2	2120.3	2140.2	2103.6	2148.5	2361.9	2957.1	3067.0	3091.0
35°	2520.9	2474.9	2644.4	2722.8	2593.1	2422.6	2404.8	3037.7	3193.5	3229.1
37.5°	2729.1	3091.0	3344.2	3620.3	3395.4	3019.9	2617.2	3174.7	3374.5	3431.0
40°	3182.0	3628.7	4085.8	4442.5	4102.5	3597.3	3020.9	3378.7	3623.4	3674.7
42.5°	3608.8	4132.9	4762.6	5223.9	4782.4	4069.1	3456.1	3721.8	3951.9	3980.1
45°	4027.2	4627.6	5581.6	6222.8	5623.5	4517.8	3900.6	4301.3	4474.9	4476.0
47.5°	4517.8	5185.2	6608.8	7522.0	6739.6	5014.7	4318.0	5218.6	5460.3	5342.1
50°	5104.6	5739.6	7666.3	9033.5	8100.4	5625.5	4848.3	6336.8	6666.3	6532.4
52.5°	5890.2	6350.4	8831.6	10507.4	9583.7	6321.2	5617.2	7813.8	7922.6	7672.6
55°	6995.8	7232.2	10327.4	12327.4	11239.6	7177.8	6741.7	9667.4	9363.0	8646.5
57.5°	9513.6	8627.6	12247.9	14403.8	13113.0	8734.3	9206.1	11711.3	10628.7	9420.5
60°	11620.3	10322.2	14025.2	16464.5	14718.7	10449.8	11519.9	12067.0	10581.6	9334.8
62.5°	10910.1	10754.2	14666.4	16691.5	15266.8	11294.0	11090.0	11170.5	9891.2	8764.7
65°	9572.2	9920.5	14094.2	15615.1	14659.0	10537.7	10031.4	10342.1	9101.5	7966.6
67.5°	8782.5	9038.7	13076.4	13892.3	13554.4	9719.7	9208.2	8983.3	7875.5	6911.1
70°	7974.9	8187.3	11647.5	11730.2	11831.6	8359.9	7529.3	6859.9	5870.3	5195.6
72.5°	6891.2	6902.7	9841.0	9362.0	9554.4	6541.9	6060.7	5128.7	4273.0	3661.1
75°	5781.4	5465.5	7789.8	6544.0	6929.9	5088.9	5032.4	3865.1	3222.8	2720.7
77.5°	4408.0	4038.7	5690.4	4303.4	4867.2	3389.1	3783.5	2621.3	2267.8	1810.7
80°	2959.2	2729.1	3144.4	2428.9	3184.1	2335.8	2467.6	1485.4	1287.7	999.0
82.5°	1560.7	1332.6	1943.5	1440.4	1920.5	1283.5	925.7	459.2	391.2	315.9
85°	604.6	699.8	952.9	512.6	744.8	458.2	267.8	114.0	95.2	72.2
87.5°	117.2	181.0	99.4	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)