

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: P636832

Luminaire Tested: GWS-SA4B-750-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636832
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-SA4B-750-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13876.7 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

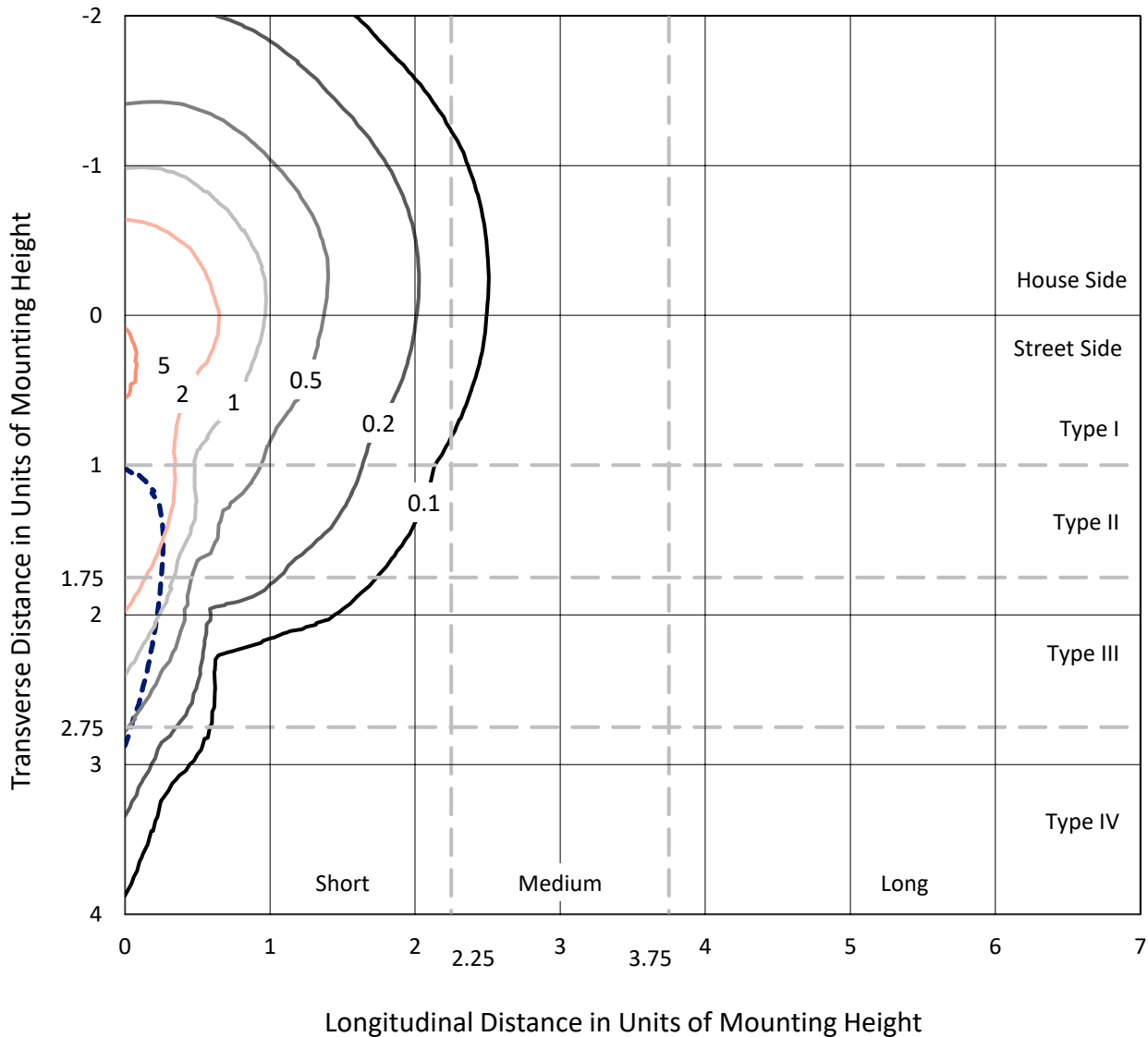
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

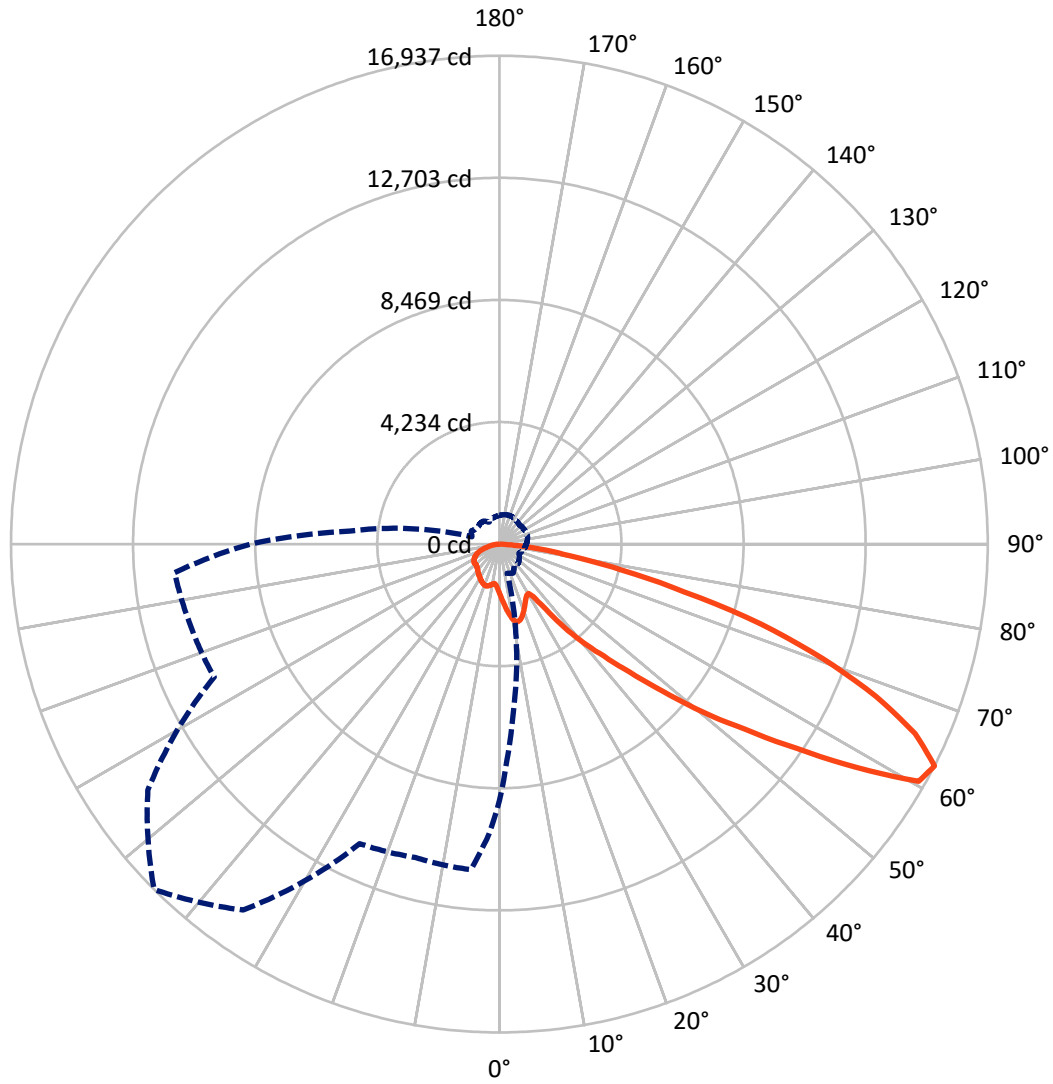
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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	3317.9	0.0	3317.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10558.8	0.0	10558.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	13876.7	0.0	13876.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	1.2
10°-20°	553.9	4.0
20°-30°	872.0	6.3
30°-40°	1195.3	8.6
40°-50°	1865.0	13.4
50°-60°	3215.7	23.2
60°-70°	3726.5	26.9
70°-80°	1967.0	14.2
80°-90°	310.7	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°	13876.7	100.0
0°-180°	13876.7	100.0

Coefficient of Utilization



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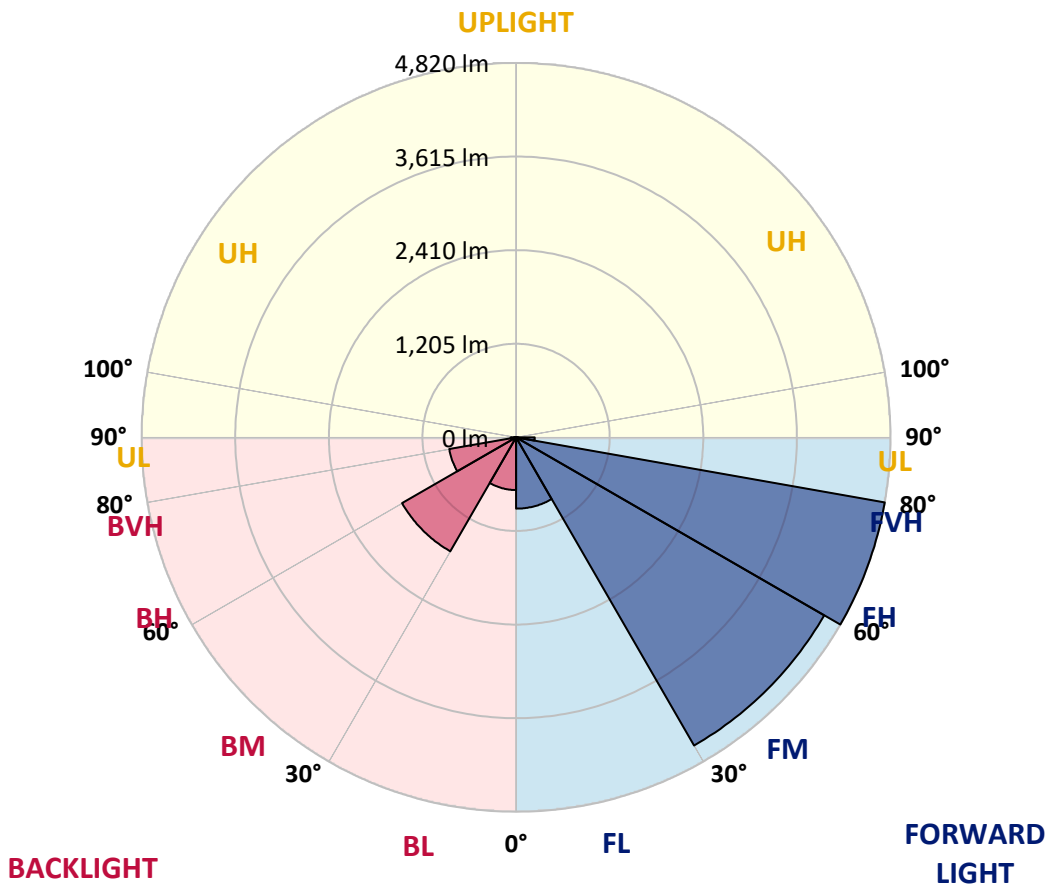
CATALOG NUMBER: GWS-SA4B-750-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.8	6.6			
FM (30°-60°)	4581.2	33.0			
FH (60°-80°)	4820.0	34.7			G2/5000
FVH (80°-90°)	239.8	1.7			G3/500
BL (0°-30°)	678.6	4.9	B2/1000		
BM (30°-60°)	1694.8	12.2	B2/2500		
BH (60°-80°)	873.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	70.9	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°	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1
2.5°	1879.8	1872.4	1861.8	1825.7	1803.4	1777.9	1751.4	1720.6	1685.6	1661.1	1636.7
5°	2039.0	2027.3	2001.9	1915.9	1856.4	1791.7	1737.6	1676.0	1615.5	1574.1	1532.7
7.5°	2191.9	2177.0	2137.7	2006.1	1909.5	1816.1	1734.4	1645.2	1555.0	1493.4	1444.6
10°	2344.7	2313.9	2264.0	2092.1	1964.7	1856.4	1763.0	1653.7	1533.8	1449.9	1397.9
12.5°	2461.5	2432.8	2378.7	2170.6	2019.9	1884.0	1779.0	1678.1	1576.2	1487.1	1434.0
15°	2570.8	2533.6	2472.1	2243.9	2065.6	1883.0	1747.1	1659.0	1644.2	1621.9	1552.9
17.5°	2649.3	2615.4	2551.7	2303.3	2091.0	1850.1	1659.0	1607.0	1673.9	1741.8	1676.0
20°	2718.3	2679.1	2614.3	2344.7	2096.3	1776.8	1551.8	1552.9	1658.0	1751.4	1735.4
22.5°	2776.7	2733.2	2675.9	2391.4	2094.2	1674.9	1458.4	1522.1	1627.2	1700.4	1702.5
25°	2848.9	2812.8	2765.0	2460.4	2094.2	1570.9	1390.5	1484.9	1575.2	1636.7	1634.6
27.5°	2937.0	2912.6	2873.3	2565.5	2113.3	1483.9	1352.3	1437.2	1508.3	1561.4	1560.3
30°	3035.7	3013.4	2983.7	2676.9	2146.2	1419.1	1331.0	1377.7	1429.8	1472.2	1472.2
32.5°	3136.5	3128.0	3096.2	2766.1	2120.7	1399.0	1313.0	1318.3	1345.9	1380.9	1377.7
35°	3276.6	3268.2	3227.8	2835.1	2010.4	1370.3	1284.3	1257.8	1261.0	1283.3	1290.7
37.5°	3481.5	3468.8	3409.3	2915.8	1843.7	1298.1	1237.6	1194.1	1184.6	1194.1	1207.9
40°	3728.8	3709.7	3629.0	3025.1	1651.6	1200.5	1164.4	1128.3	1112.4	1115.6	1131.5
42.5°	4038.8	3998.4	3882.7	3140.8	1461.6	1114.5	1082.7	1060.4	1042.3	1040.2	1071.0
45°	4541.9	4431.5	4247.9	3243.7	1301.3	1068.9	1009.4	993.5	978.6	987.1	1023.2
47.5°	5420.7	5216.9	4859.2	3331.8	1203.7	1069.9	951.0	934.1	933.0	950.0	990.3
50°	6628.7	6334.6	5782.7	3391.3	1152.7	1082.7	916.0	888.4	908.6	925.6	963.8
52.5°	7785.6	7336.6	6679.6	3390.2	1130.4	1084.8	925.6	846.0	908.6	912.8	948.9
55°	8773.8	7960.8	6921.6	3042.1	1098.6	1076.3	962.7	813.1	896.9	912.8	941.5
57.5°	9559.3	8357.7	6903.6	2457.2	1195.2	1029.6	985.0	805.6	862.9	915.0	947.9
60°	9472.2	8176.2	6458.8	1508.3	1185.6	946.8	981.8	819.4	805.6	886.3	940.4
62.5°	8893.8	7525.6	5693.5	1046.6	1113.4	899.0	929.8	843.8	752.6	844.9	904.3
65°	8083.9	6686.0	4744.6	802.4	922.4	901.2	841.7	826.9	705.9	779.1	842.8
67.5°	7012.9	5644.7	3745.8	635.8	643.2	780.2	764.2	734.5	662.3	720.7	778.0
70°	5272.1	4119.4	2577.2	511.6	487.2	651.7	686.7	660.2	619.9	636.9	697.4
72.5°	3715.0	2689.7	1411.7	405.5	375.7	501.0	596.5	592.3	547.7	560.4	619.9
75°	2760.8	1903.2	882.1	320.6	305.7	358.8	499.9	512.7	475.5	490.4	536.0
77.5°	1837.3	1232.3	490.4	237.8	237.8	262.2	372.6	432.0	404.4	416.1	447.9
80°	1013.7	627.3	245.2	156.0	160.3	180.4	271.7	311.0	312.1	340.7	349.2
82.5°	320.6	199.5	109.3	91.3	86.0	103.0	175.1	222.9	208.0	265.4	244.1
85°	73.2	46.7	20.2	20.2	22.3	34.0	66.9	118.9	151.8	182.6	132.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	46.7	69.0	61.6
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°	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1
2.5°	1621.9	1600.6	1594.3	1576.2	1574.1	1557.1	1550.8	1550.8	1558.2	1558.2	1565.6
5°	1515.7	1489.2	1474.3	1453.1	1447.8	1435.1	1426.6	1427.6	1437.2	1443.6	1456.3
7.5°	1422.3	1404.3	1393.7	1384.1	1382.0	1379.9	1370.3	1369.2	1372.4	1382.0	1391.5
10°	1383.0	1370.3	1373.5	1380.9	1392.6	1399.0	1390.5	1386.2	1383.0	1389.4	1397.9
12.5°	1421.3	1408.5	1414.9	1427.6	1443.6	1449.9	1446.7	1445.7	1448.9	1473.3	1491.3
15°	1505.1	1480.7	1472.2	1477.5	1490.3	1496.6	1493.4	1497.7	1517.9	1581.5	1627.2
17.5°	1609.1	1549.7	1515.7	1506.2	1511.5	1516.8	1516.8	1527.4	1562.4	1655.8	1713.2
20°	1665.4	1587.9	1530.6	1507.2	1509.4	1514.7	1514.7	1529.5	1568.8	1668.6	1705.7
22.5°	1650.5	1579.4	1509.4	1483.9	1484.9	1489.2	1489.2	1501.9	1537.0	1625.1	1642.0
25°	1592.2	1529.5	1460.5	1438.2	1440.4	1447.8	1445.7	1453.1	1479.6	1551.8	1561.4
27.5°	1522.1	1466.9	1399.0	1382.0	1391.5	1406.4	1393.7	1394.7	1419.1	1479.6	1480.7
30°	1446.7	1401.1	1340.6	1327.9	1345.9	1353.3	1341.7	1341.7	1366.1	1407.5	1406.4
32.5°	1365.0	1336.3	1292.8	1279.0	1299.2	1310.9	1296.0	1298.1	1317.2	1344.8	1334.2
35°	1288.6	1273.7	1253.6	1244.0	1256.7	1267.4	1257.8	1262.0	1280.1	1287.5	1272.7
37.5°	1215.3	1213.2	1215.3	1215.3	1218.5	1221.7	1215.3	1226.0	1241.9	1232.3	1215.3
40°	1151.7	1160.1	1180.3	1175.0	1171.8	1175.0	1170.8	1188.8	1204.7	1187.7	1167.6
42.5°	1098.6	1114.5	1145.3	1145.3	1138.9	1141.0	1138.9	1161.2	1172.9	1149.5	1127.2
45°	1052.9	1076.3	1115.6	1120.9	1110.3	1110.3	1114.5	1142.1	1146.3	1114.5	1091.2
47.5°	1021.1	1049.8	1094.3	1103.9	1088.0	1086.9	1098.6	1128.3	1128.3	1091.2	1064.6
50°	998.8	1030.7	1083.7	1096.5	1080.5	1076.3	1095.4	1124.1	1117.7	1073.1	1046.6
52.5°	983.9	1016.9	1082.7	1100.7	1090.1	1085.8	1105.0	1125.1	1109.2	1061.4	1033.8
55°	974.4	1010.5	1085.8	1100.7	1089.0	1081.6	1100.7	1118.8	1110.3	1055.1	1028.5
57.5°	979.7	1015.8	1081.6	1089.0	1075.2	1062.5	1084.8	1110.3	1107.1	1057.2	1030.7
60°	971.2	1004.1	1058.2	1060.4	1037.0	1016.9	1049.8	1088.0	1088.0	1049.8	1026.4
62.5°	931.9	964.8	1012.6	1014.7	988.2	965.9	1004.1	1049.8	1048.7	1017.9	993.5
65°	867.2	898.0	952.1	957.4	930.9	907.5	946.8	989.3	992.4	964.8	943.6
67.5°	796.1	823.7	864.0	885.2	862.9	838.5	874.6	915.0	913.9	881.0	858.7
70°	711.2	736.6	773.8	791.8	778.0	754.7	787.6	808.8	799.3	783.3	768.5
72.5°	627.3	651.7	686.7	686.7	671.9	649.6	659.2	697.4	709.0	697.4	687.8
75°	539.2	560.4	584.9	590.2	557.3	516.9	561.5	594.4	608.2	602.9	591.2
77.5°	449.0	464.9	501.0	491.4	429.9	408.7	444.7	493.6	503.1	499.9	484.0
80°	346.0	355.6	393.8	374.7	326.9	313.1	329.0	367.3	369.4	358.8	338.6
82.5°	232.5	245.2	270.7	233.5	232.5	219.7	207.0	211.2	230.3	228.2	214.4
85°	118.9	125.2	149.7	140.1	119.9	104.0	98.7	105.1	94.5	86.0	74.3
87.5°	49.9	54.1	74.3	41.4	12.7	0.0	0.0	6.4	9.6	13.8	14.9
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°	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1
2.5°	1582.6	1594.3	1622.9	1659.0	1694.0	1730.1	1769.4	1793.8	1823.5	1861.8	1862.8
5°	1472.2	1498.7	1540.1	1595.3	1652.7	1718.5	1794.9	1858.6	1935.0	1995.5	2019.9
7.5°	1404.3	1442.5	1494.5	1564.6	1639.9	1721.6	1821.4	1928.6	2053.9	2134.5	2182.3
10°	1410.6	1469.0	1521.0	1580.5	1648.4	1736.5	1864.9	2007.2	2161.1	2267.2	2326.7
12.5°	1524.2	1585.8	1576.2	1573.0	1618.7	1725.9	1900.0	2086.8	2274.7	2380.8	2451.9
15°	1667.5	1690.9	1600.6	1532.7	1560.3	1687.7	1919.1	2157.9	2369.1	2498.6	2568.7
17.5°	1740.8	1694.0	1584.7	1482.8	1475.4	1629.3	1928.6	2230.1	2475.3	2604.8	2679.1
20°	1706.8	1638.9	1546.5	1449.9	1396.8	1549.7	1923.3	2287.4	2571.9	2716.2	2776.7
22.5°	1633.5	1574.1	1501.9	1409.6	1333.2	1462.7	1909.5	2344.7	2657.8	2803.2	2856.3
25°	1553.9	1509.4	1449.9	1369.2	1297.1	1386.2	1900.0	2421.1	2756.5	2895.6	2929.6
27.5°	1474.3	1441.4	1392.6	1330.0	1288.6	1333.2	1903.2	2520.9	2883.9	3015.5	3001.7
30°	1395.8	1367.1	1333.2	1305.6	1287.5	1320.4	1894.7	2627.0	3024.0	3146.1	3064.4
32.5°	1321.5	1294.9	1273.7	1278.0	1288.6	1325.7	1851.1	2723.6	3152.5	3256.5	3132.3
35°	1257.8	1230.2	1230.2	1245.1	1284.3	1307.7	1738.6	2799.0	3294.7	3398.7	3228.9
37.5°	1198.4	1173.9	1189.9	1214.3	1251.4	1258.9	1594.3	2872.2	3501.7	3599.3	3378.5
40°	1146.3	1121.9	1150.6	1181.4	1200.5	1197.3	1447.8	2974.1	3745.8	3846.6	3577.0
42.5°	1105.0	1082.7	1108.1	1147.4	1150.6	1153.8	1340.6	3071.8	4029.2	4157.6	3918.8
45°	1071.0	1055.1	1067.8	1107.1	1107.1	1155.9	1273.7	3153.5	4455.9	4683.0	4546.1
47.5°	1044.5	1034.9	1041.3	1054.0	1075.2	1194.1	1231.3	3216.1	5232.9	5678.7	5540.7
50°	1029.6	1020.0	1028.5	1002.0	1065.7	1213.2	1217.5	3263.9	6257.2	6955.6	6784.7
52.5°	1016.9	1013.7	1019.0	957.4	1086.9	1200.5	1206.9	3200.2	6943.9	8212.3	8381.1
55°	1012.6	1014.7	989.3	924.5	1112.4	1158.0	1175.0	2744.9	7130.7	9296.0	10343.7
57.5°	1014.7	1008.4	943.6	927.7	1113.4	1073.1	1220.6	1958.3	6859.0	9767.3	12263.8
60°	1007.3	975.5	888.4	956.4	1064.6	973.3	1187.7	1276.9	6142.5	9405.4	12375.3
62.5°	974.4	927.7	840.7	972.3	977.6	913.9	1078.4	983.9	5187.2	8630.5	11301.1
65°	926.6	864.0	800.3	939.4	889.5	886.3	810.9	788.6	4171.4	7708.1	10282.1
67.5°	848.1	785.5	770.6	864.0	800.3	785.5	651.7	653.8	3328.7	6725.2	9257.8
70°	758.9	696.3	708.0	781.2	712.2	652.8	527.5	544.5	2525.2	5603.3	7876.9
72.5°	700.5	616.7	617.8	687.8	626.2	528.6	434.1	449.0	1602.8	4223.4	6262.5
75°	591.2	543.5	520.1	557.3	531.8	411.8	365.1	361.9	950.0	3027.2	4689.4
77.5°	493.6	456.4	444.7	459.6	397.0	304.6	294.0	288.7	538.1	1939.2	3072.9
80°	357.7	348.2	347.1	354.5	305.7	224.0	224.0	225.0	289.8	1052.9	1732.3
82.5°	227.1	248.4	219.7	244.1	208.0	159.2	148.6	168.8	166.6	449.0	730.3
85°	94.5	129.5	121.0	128.4	98.7	87.0	93.4	100.8	96.6	173.0	284.5
87.5°	18.0	21.2	23.4	22.3	22.3	27.6	30.8	37.2	37.2	49.9	86.0
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°	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1	1730.1
2.5°	1903.2	1933.9	1927.6	1941.4	1923.3	1929.7	1893.6	1884.0	1877.7	1879.8
5°	2098.5	2161.1	2172.8	2196.1	2180.2	2180.2	2116.5	2068.7	2051.8	2039.0
7.5°	2296.9	2387.2	2446.6	2453.0	2444.5	2427.5	2335.2	2249.2	2218.4	2191.9
10°	2473.1	2581.4	2648.3	2680.1	2664.2	2637.7	2523.0	2405.2	2368.1	2344.7
12.5°	2607.9	2703.5	2748.1	2769.3	2767.2	2757.6	2664.2	2536.8	2497.6	2461.5
15°	2695.0	2742.7	2725.8	2724.7	2739.6	2777.8	2749.1	2649.3	2603.7	2570.8
17.5°	2751.2	2705.6	2630.2	2595.2	2627.0	2717.3	2783.1	2726.8	2685.4	2649.3
20°	2771.4	2609.0	2499.7	2434.9	2472.1	2602.6	2765.0	2783.1	2748.1	2718.3
22.5°	2748.1	2491.2	2342.6	2266.2	2302.2	2458.3	2712.0	2828.7	2805.4	2776.7
25°	2690.7	2368.1	2189.7	2120.7	2160.0	2319.2	2617.5	2871.2	2872.2	2848.9
27.5°	2619.6	2254.5	2082.5	2017.8	2056.0	2204.6	2525.2	2908.3	2945.5	2937.0
30°	2547.4	2186.6	2031.6	1985.9	2014.6	2146.2	2430.7	2946.5	3020.8	3035.7
32.5°	2514.5	2219.5	2151.5	2171.7	2134.5	2180.2	2396.7	3000.7	3112.1	3136.5
35°	2558.1	2511.4	2683.3	2762.9	2631.3	2458.3	2440.2	3082.4	3240.6	3276.6
37.5°	2769.3	3136.5	3393.4	3673.6	3445.4	3064.4	2655.7	3221.5	3424.2	3481.5
40°	3228.9	3682.1	4146.0	4507.9	4162.9	3650.3	3065.4	3428.4	3676.8	3728.8
42.5°	3661.9	4193.7	4832.7	5300.8	4852.9	4129.0	3507.0	3776.6	4010.1	4038.8
45°	4086.5	4695.8	5663.8	6314.5	5706.3	4584.3	3958.1	4364.6	4540.8	4541.9
47.5°	4584.3	5261.5	6706.1	7632.8	6838.8	5088.5	4381.6	5295.5	5540.7	5420.7
50°	5179.8	5824.1	7779.2	9166.5	8219.7	5708.4	4919.7	6430.2	6764.5	6628.7
52.5°	5976.9	6444.0	8961.7	10662.1	9724.9	6414.2	5699.9	7928.9	8039.3	7785.6
55°	7098.9	7338.8	10479.5	12509.0	11405.1	7283.6	6840.9	9809.8	9500.9	8773.8
57.5°	9653.7	8754.7	12428.3	14615.9	13306.1	8863.0	9341.7	11883.8	10785.2	9559.3
60°	11791.5	10474.2	14231.7	16707.0	14935.4	10603.7	11689.6	12244.7	10737.5	9472.2
62.5°	11070.8	10912.6	14882.4	16937.3	15491.6	11460.3	11253.3	11335.1	10036.9	8893.8
65°	9713.2	10066.6	14301.8	15845.1	14874.9	10692.9	10179.2	10494.4	9235.5	8083.9
67.5°	8911.8	9171.8	13269.0	14096.9	13754.1	9862.8	9343.8	9115.6	7991.5	7012.9
70°	8092.4	8307.8	11819.1	11902.9	12005.9	8483.0	7640.2	6960.9	5956.8	5272.1
72.5°	6992.7	7004.4	9986.0	9499.8	9695.1	6638.2	6149.9	5204.2	4336.0	3715.0
75°	5866.5	5546.0	7904.5	6640.3	7032.0	5163.9	5106.6	3922.0	3270.3	2760.8
77.5°	4472.9	4098.2	5774.2	4366.7	4938.9	3439.0	3839.2	2660.0	2301.2	1837.3
80°	3002.8	2769.3	3190.7	2464.6	3231.0	2370.2	2503.9	1507.2	1306.6	1013.7
82.5°	1583.7	1352.3	1972.1	1461.6	1948.8	1302.4	939.4	466.0	397.0	320.6
85°	613.5	710.1	967.0	520.1	755.7	464.9	271.7	115.7	96.6	73.2
87.5°	118.9	183.6	100.8	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)