

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: P639197

Luminaire Tested: GWS-SA5B-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639197
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-SA5B-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16413.3 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

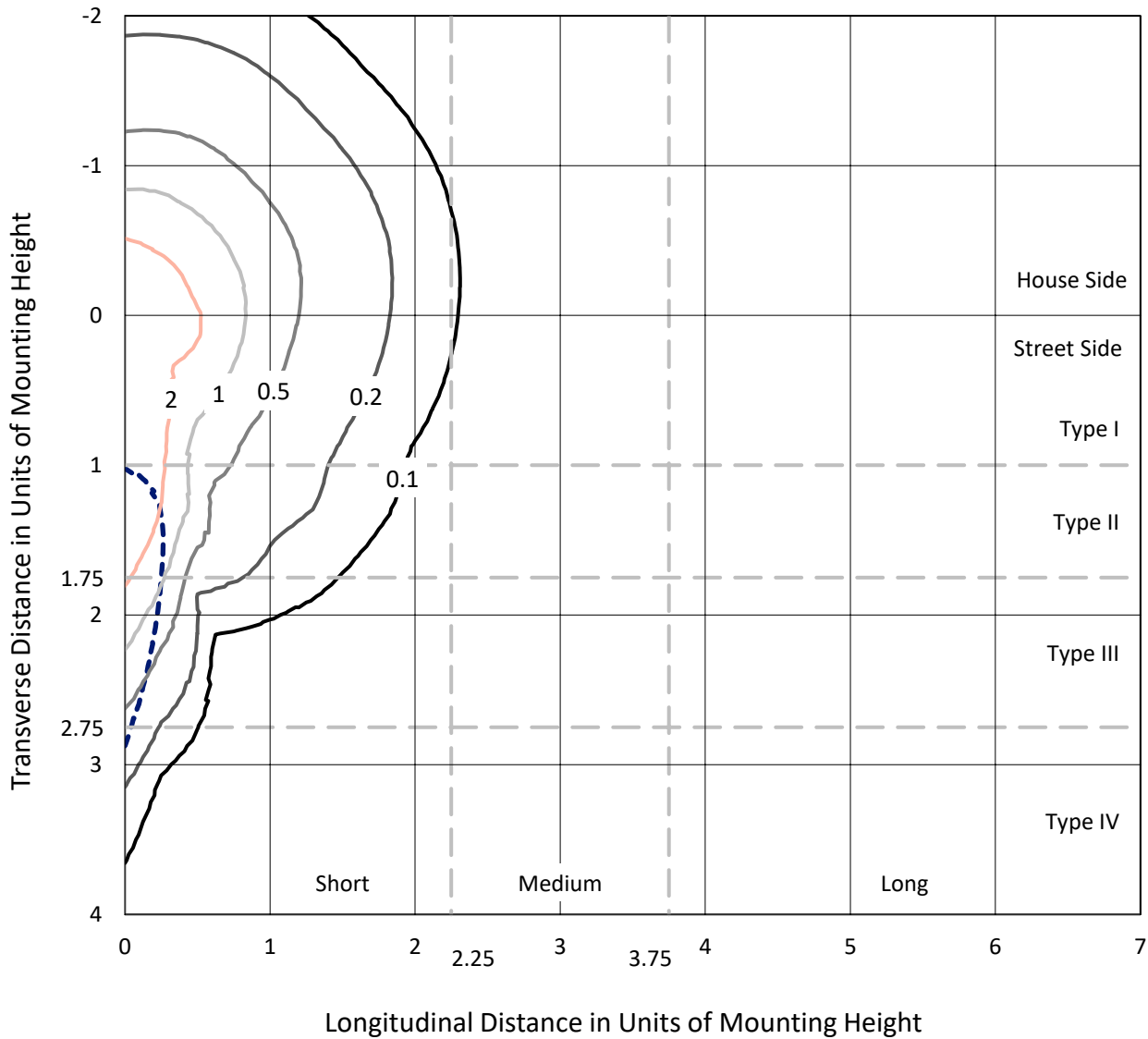
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

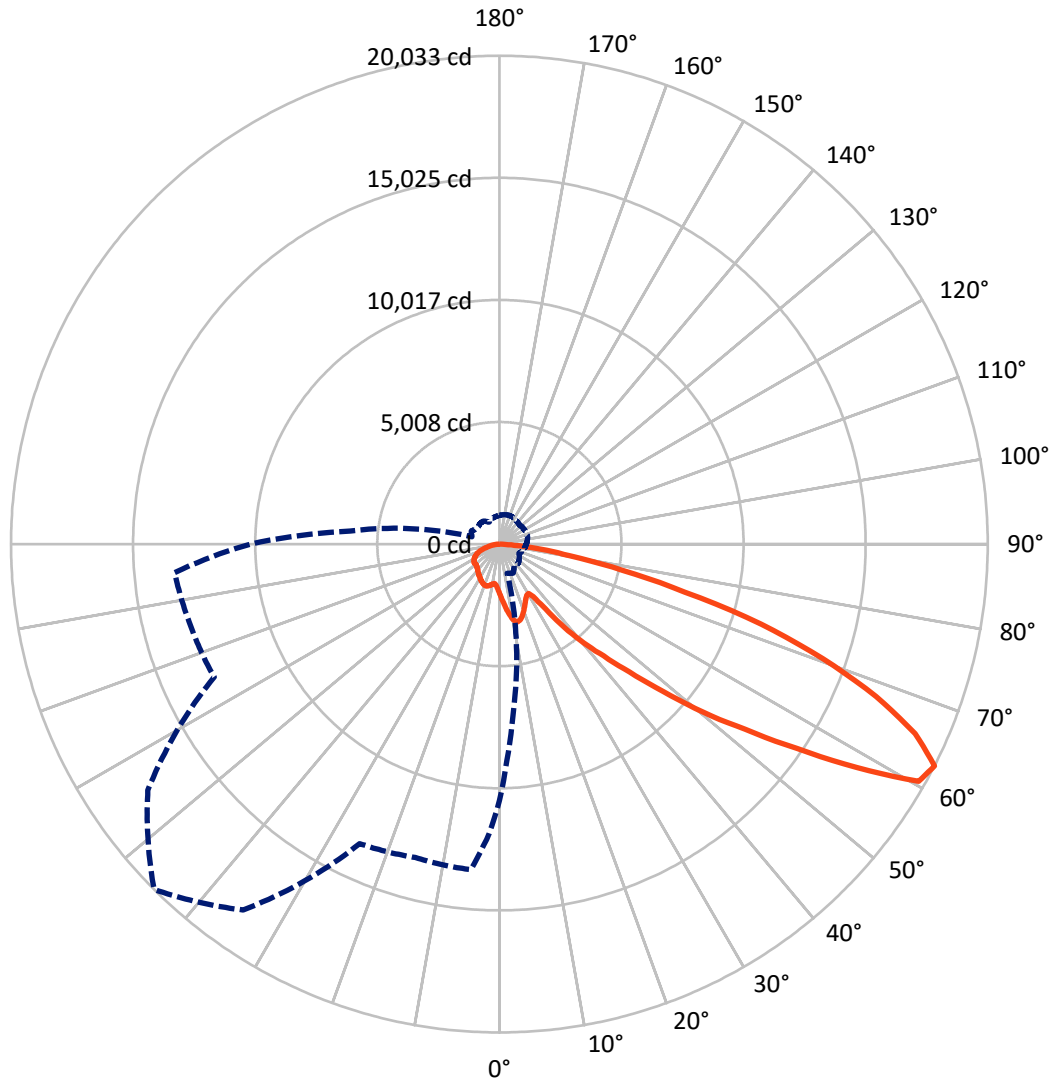
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	3924.4	0.0	3924.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12488.9	0.0	12488.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	16413.3	0.0	16413.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.2
10°-20°	655.2	4.0
20°-30°	1031.4	6.3
30°-40°	1413.8	8.6
40°-50°	2205.9	13.4
50°-60°	3803.5	23.2
60°-70°	4407.7	26.9
70°-80°	2326.6	14.2
80°-90°	367.5	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°	16413.3	100.0
0°-180°	16413.3	100.0

Coefficient of Utilization



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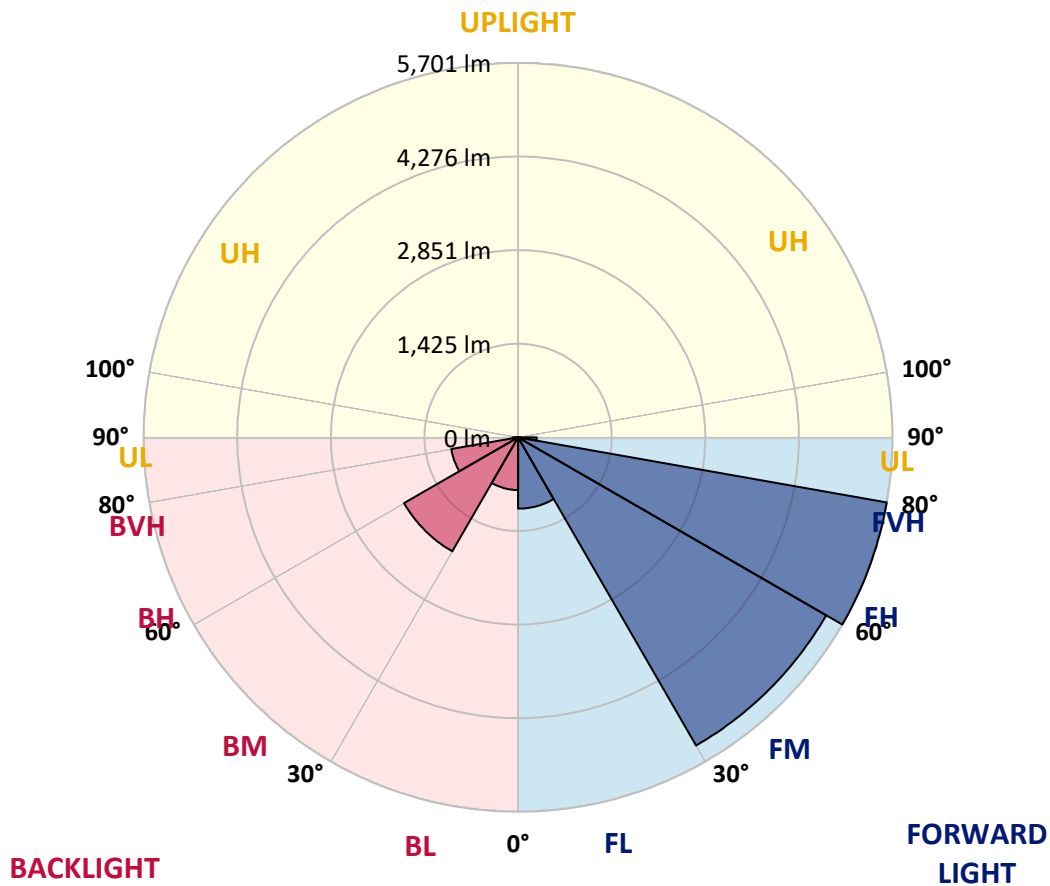
CATALOG NUMBER: GWS-SA5B-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.5	6.6			
FM (30°-60°)	5418.6	33.0			
FH (60°-80°)	5701.0	34.7			G3/7500
FVH (80°-90°)	283.7	1.7			G3/500
BL (0°-30°)	802.7	4.9	B2/1000		
BM (30°-60°)	2004.6	12.2	B2/2500		
BH (60°-80°)	1033.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	83.8	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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2223.4	2214.6	2202.1	2159.4	2133.0	2102.9	2071.5	2035.1	1993.7	1964.8	1935.9
5°	2411.7	2397.9	2367.8	2266.1	2195.8	2119.2	2055.2	1982.4	1910.8	1861.8	1812.9
7.5°	2592.5	2574.9	2528.5	2372.8	2258.6	2148.1	2051.4	1946.0	1839.2	1766.4	1708.7
10°	2773.3	2736.9	2677.9	2474.5	2323.9	2195.8	2085.3	1956.0	1814.1	1715.0	1653.4
12.5°	2911.4	2877.5	2813.5	2567.4	2389.1	2228.4	2104.1	1984.9	1864.4	1758.9	1696.1
15°	3040.7	2996.8	2924.0	2654.0	2443.1	2227.2	2066.5	1962.3	1944.7	1918.3	1836.7
17.5°	3133.6	3093.5	3018.1	2724.3	2473.3	2188.3	1962.3	1900.8	1979.9	2060.2	1982.4
20°	3215.2	3168.8	3092.2	2773.3	2479.5	2101.6	1835.5	1836.7	1961.0	2071.5	2052.7
22.5°	3284.3	3232.8	3165.0	2828.5	2477.0	1981.1	1725.0	1800.3	1924.6	2011.2	2013.8
25°	3369.7	3327.0	3270.5	2910.2	2477.0	1858.1	1644.7	1756.4	1863.1	1935.9	1933.4
27.5°	3473.9	3445.0	3398.5	3034.4	2499.6	1755.1	1599.5	1699.9	1784.0	1846.8	1845.5
30°	3590.6	3564.2	3529.1	3166.3	2538.5	1678.5	1574.3	1629.6	1691.1	1741.3	1741.3
32.5°	3709.9	3699.8	3662.2	3271.7	2508.4	1654.7	1553.0	1559.3	1591.9	1633.4	1629.6
35°	3875.6	3865.6	3817.9	3353.3	2377.8	1620.8	1519.1	1487.7	1491.5	1517.9	1526.6
37.5°	4117.9	4102.8	4032.5	3448.7	2180.7	1535.4	1463.9	1412.4	1401.1	1412.4	1428.7
40°	4410.4	4387.8	4292.4	3578.1	1953.5	1419.9	1377.2	1334.6	1315.7	1319.5	1338.3
42.5°	4777.0	4729.3	4592.5	3714.9	1728.8	1318.2	1280.6	1254.2	1232.9	1230.4	1266.8
45°	5372.1	5241.5	5024.3	3836.7	1539.2	1264.2	1193.9	1175.1	1157.5	1167.6	1210.3
47.5°	6411.6	6170.6	5747.5	3940.9	1423.7	1265.5	1124.9	1104.8	1103.5	1123.6	1171.3
50°	7840.3	7492.6	6839.7	4011.2	1363.4	1280.6	1083.5	1050.8	1074.7	1094.8	1140.0
52.5°	9208.8	8677.7	7900.6	4009.9	1337.1	1283.1	1094.8	1000.6	1074.7	1079.7	1122.4
55°	10377.6	9415.9	8186.9	3598.1	1299.4	1273.0	1138.7	961.7	1060.9	1079.7	1113.6
57.5°	11306.7	9885.5	8165.5	2906.4	1413.6	1217.8	1165.1	952.9	1020.7	1082.2	1121.1
60°	11203.7	9670.8	7639.5	1784.0	1402.3	1119.9	1161.3	969.2	952.9	1048.3	1112.3
62.5°	10519.5	8901.2	6734.3	1237.9	1317.0	1063.4	1099.8	998.1	890.1	999.3	1069.7
65°	9561.6	7908.1	5611.9	949.1	1091.0	1065.9	995.6	978.0	834.9	921.5	996.8
67.5°	8294.8	6676.5	4430.5	752.0	760.8	922.8	903.9	868.8	783.4	852.5	920.3
70°	6235.9	4872.4	3048.3	605.1	576.3	770.9	812.3	780.9	733.2	753.3	824.8
72.5°	4394.1	3181.3	1669.8	479.6	444.4	592.6	705.6	700.5	647.8	662.9	733.2
75°	3265.4	2251.0	1043.3	379.1	361.6	424.3	591.3	606.4	562.4	580.0	634.0
77.5°	2173.2	1457.6	580.0	281.2	281.2	310.1	440.7	511.0	478.3	492.1	529.8
80°	1199.0	742.0	290.0	184.6	189.6	213.4	321.4	367.8	369.1	403.0	413.0
82.5°	379.1	236.0	129.3	108.0	101.7	121.8	207.2	263.6	246.1	313.9	288.8
85°	86.6	55.2	23.9	23.9	26.4	40.2	79.1	140.6	179.5	215.9	156.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	55.2	81.6	72.8
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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	1918.3	1893.2	1885.7	1864.4	1861.8	1841.8	1834.2	1834.2	1843.0	1843.0	1851.8
5°	1792.8	1761.4	1743.8	1718.7	1712.4	1697.4	1687.3	1688.6	1699.9	1707.4	1722.5
7.5°	1682.3	1661.0	1648.4	1637.1	1634.6	1632.1	1620.8	1619.5	1623.3	1634.6	1645.9
10°	1635.9	1620.8	1624.6	1633.4	1647.2	1654.7	1644.7	1639.6	1635.9	1643.4	1653.4
12.5°	1681.1	1666.0	1673.5	1688.6	1707.4	1715.0	1711.2	1709.9	1713.7	1742.6	1763.9
15°	1780.2	1751.4	1741.3	1747.6	1762.7	1770.2	1766.4	1771.5	1795.3	1870.6	1924.6
17.5°	1903.3	1833.0	1792.8	1781.5	1787.8	1794.1	1794.1	1806.6	1848.0	1958.5	2026.3
20°	1969.8	1878.2	1810.4	1782.8	1785.3	1791.5	1791.5	1809.1	1855.6	1973.6	2017.5
22.5°	1952.2	1868.1	1785.3	1755.1	1756.4	1761.4	1761.4	1776.5	1817.9	1922.1	1942.2
25°	1883.2	1809.1	1727.5	1701.1	1703.7	1712.4	1709.9	1718.7	1750.1	1835.5	1846.8
27.5°	1800.3	1735.0	1654.7	1634.6	1645.9	1663.5	1648.4	1649.7	1678.5	1750.1	1751.4
30°	1711.2	1657.2	1585.6	1570.6	1591.9	1600.7	1586.9	1586.9	1615.8	1664.7	1663.5
32.5°	1614.5	1580.6	1529.1	1512.8	1536.7	1550.5	1532.9	1535.4	1558.0	1590.7	1578.1
35°	1524.1	1506.6	1482.7	1471.4	1486.5	1499.0	1487.7	1492.7	1514.1	1522.9	1505.3
37.5°	1437.5	1435.0	1437.5	1437.5	1441.3	1445.0	1437.5	1450.1	1468.9	1457.6	1437.5
40°	1362.2	1372.2	1396.1	1389.8	1386.0	1389.8	1384.8	1406.1	1424.9	1404.9	1381.0
42.5°	1299.4	1318.2	1354.6	1354.6	1347.1	1349.6	1347.1	1373.5	1387.3	1359.7	1333.3
45°	1245.4	1273.0	1319.5	1325.8	1313.2	1313.2	1318.2	1350.9	1355.9	1318.2	1290.6
47.5°	1207.8	1241.6	1294.4	1305.7	1286.8	1285.6	1299.4	1334.6	1334.6	1290.6	1259.2
50°	1181.4	1219.1	1281.8	1296.9	1278.1	1273.0	1295.6	1329.5	1322.0	1269.3	1237.9
52.5°	1163.8	1202.7	1280.6	1301.9	1289.4	1284.3	1306.9	1330.8	1312.0	1255.5	1222.8
55°	1152.5	1195.2	1284.3	1301.9	1288.1	1279.3	1301.9	1323.3	1313.2	1247.9	1216.5
57.5°	1158.8	1201.5	1279.3	1288.1	1271.8	1256.7	1283.1	1313.2	1309.4	1250.4	1219.1
60°	1148.7	1187.7	1251.7	1254.2	1226.6	1202.7	1241.6	1286.8	1286.8	1241.6	1214.0
62.5°	1102.3	1141.2	1197.7	1200.2	1168.8	1142.5	1187.7	1241.6	1240.4	1204.0	1175.1
65°	1025.7	1062.1	1126.1	1132.4	1101.0	1073.4	1119.9	1170.1	1173.9	1141.2	1116.1
67.5°	941.6	974.2	1021.9	1047.1	1020.7	991.8	1034.5	1082.2	1081.0	1042.0	1015.7
70°	841.2	871.3	915.2	936.6	920.3	892.6	931.6	956.7	945.4	926.5	909.0
72.5°	742.0	770.9	812.3	812.3	794.7	768.3	779.6	824.8	838.6	824.8	813.5
75°	637.8	662.9	691.8	698.0	659.1	611.4	664.1	703.1	719.4	713.1	699.3
77.5°	531.1	549.9	592.6	581.3	508.5	483.4	526.0	583.8	595.1	591.3	572.5
80°	409.3	420.6	465.8	443.2	386.7	370.4	389.2	434.4	436.9	424.3	400.5
82.5°	274.9	290.0	320.1	276.2	274.9	259.9	244.8	249.8	272.4	269.9	253.6
85°	140.6	148.1	177.0	165.7	141.9	123.0	116.8	124.3	111.7	101.7	87.9
87.5°	59.0	64.0	87.9	49.0	15.1	0.0	0.0	7.5	11.3	16.3	17.6
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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	1871.9	1885.7	1919.6	1962.3	2003.7	2046.4	2092.9	2121.7	2156.9	2202.1	2203.3
5°	1741.3	1772.7	1821.7	1887.0	1954.8	2032.6	2123.0	2198.3	2288.7	2360.3	2389.1
7.5°	1661.0	1706.2	1767.7	1850.5	1939.7	2036.4	2154.4	2281.2	2429.3	2524.7	2581.2
10°	1668.5	1737.6	1799.1	1869.4	1949.7	2053.9	2205.8	2374.1	2556.1	2681.7	2752.0
12.5°	1802.8	1875.7	1864.4	1860.6	1914.6	2041.4	2247.3	2468.2	2690.4	2816.0	2900.1
15°	1972.3	1999.9	1893.2	1812.9	1845.5	1996.2	2269.9	2552.3	2802.2	2955.4	3038.2
17.5°	2059.0	2003.7	1874.4	1753.9	1745.1	1927.1	2281.2	2637.7	2927.7	3080.9	3168.8
20°	2018.8	1938.4	1829.2	1715.0	1652.2	1833.0	2274.9	2705.5	3042.0	3212.7	3284.3
22.5°	1932.2	1861.8	1776.5	1667.2	1576.9	1730.0	2258.6	2773.3	3143.7	3315.7	3378.4
25°	1838.0	1785.3	1715.0	1619.5	1534.2	1639.6	2247.3	2863.7	3260.4	3424.9	3465.1
27.5°	1743.8	1704.9	1647.2	1573.1	1524.1	1576.9	2251.0	2981.7	3411.1	3566.8	3550.4
30°	1650.9	1617.0	1576.9	1544.2	1522.9	1561.8	2241.0	3107.3	3576.8	3721.2	3624.5
32.5°	1563.0	1531.7	1506.6	1511.6	1524.1	1568.1	2189.5	3221.5	3728.7	3851.7	3704.9
35°	1487.7	1455.1	1455.1	1472.7	1519.1	1546.7	2056.4	3310.6	3896.9	4020.0	3819.1
37.5°	1417.4	1388.5	1407.4	1436.2	1480.2	1489.0	1885.7	3397.3	4141.8	4257.3	3996.1
40°	1355.9	1327.0	1360.9	1397.3	1419.9	1416.2	1712.4	3517.8	4430.5	4549.8	4230.9
42.5°	1306.9	1280.6	1310.7	1357.2	1360.9	1364.7	1585.6	3633.3	4765.7	4917.6	4635.2
45°	1266.8	1247.9	1263.0	1309.4	1309.4	1367.2	1506.6	3730.0	5270.4	5539.1	5377.1
47.5°	1235.4	1224.1	1231.6	1246.7	1271.8	1412.4	1456.3	3804.0	6189.4	6716.7	6553.5
50°	1217.8	1206.5	1216.5	1185.2	1260.5	1435.0	1440.0	3860.5	7400.9	8227.0	8024.9
52.5°	1202.7	1199.0	1205.2	1132.4	1285.6	1419.9	1427.5	3785.2	8213.2	9713.5	9913.1
55°	1197.7	1200.2	1170.1	1093.5	1315.7	1369.7	1389.8	3246.6	8434.2	10995.3	12234.5
57.5°	1200.2	1192.7	1116.1	1097.3	1317.0	1269.3	1443.8	2316.3	8112.8	11552.7	14505.6
60°	1191.4	1153.8	1050.8	1131.2	1259.2	1151.3	1404.9	1510.3	7265.3	11124.6	14637.4
62.5°	1152.5	1097.3	994.3	1150.0	1156.3	1081.0	1275.5	1163.8	6135.4	10208.1	13366.9
65°	1096.0	1021.9	946.6	1111.1	1052.1	1048.3	959.2	932.8	4934.0	9117.1	12161.6
67.5°	1003.1	929.0	911.5	1021.9	946.6	929.0	770.9	773.4	3937.1	7954.6	10950.1
70°	897.7	823.6	837.4	924.0	842.4	772.1	624.0	644.1	2986.7	6627.6	9316.8
72.5°	828.6	729.4	730.7	813.5	740.7	625.2	513.5	531.1	1895.7	4995.5	7407.2
75°	699.3	642.8	615.2	659.1	629.0	487.1	431.9	428.1	1123.6	3580.6	5546.6
77.5°	583.8	539.8	526.0	543.6	469.5	360.3	347.8	341.5	636.5	2293.7	3634.6
80°	423.1	411.8	410.5	419.3	361.6	264.9	264.9	266.2	342.7	1245.4	2048.9
82.5°	268.7	293.8	259.9	288.8	246.1	188.3	175.8	199.6	197.1	531.1	863.8
85°	111.7	153.2	143.1	151.9	116.8	102.9	110.5	119.3	114.2	204.6	336.5
87.5°	21.3	25.1	27.6	26.4	26.4	32.6	36.4	43.9	43.9	59.0	101.7
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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2251.0	2287.4	2279.9	2296.2	2274.9	2282.4	2239.7	2228.4	2220.9	2223.4
5°	2482.0	2556.1	2569.9	2597.5	2578.7	2578.7	2503.4	2446.9	2426.8	2411.7
7.5°	2716.8	2823.5	2893.8	2901.4	2891.3	2871.2	2762.0	2660.3	2623.9	2592.5
10°	2925.2	3053.3	3132.4	3170.0	3151.2	3119.8	2984.2	2844.9	2800.9	2773.3
12.5°	3084.7	3197.7	3250.4	3275.5	3273.0	3261.7	3151.2	3000.5	2954.1	2911.4
15°	3187.6	3244.1	3224.0	3222.8	3240.3	3285.5	3251.6	3133.6	3079.6	3040.7
17.5°	3254.2	3200.2	3111.0	3069.6	3107.3	3214.0	3291.8	3225.3	3176.3	3133.6
20°	3278.0	3085.9	2956.6	2880.0	2924.0	3078.4	3270.5	3291.8	3250.4	3215.2
22.5°	3250.4	2946.6	2770.8	2680.4	2723.1	2907.6	3207.7	3345.8	3318.2	3284.3
25°	3182.6	2800.9	2590.0	2508.4	2554.9	2743.2	3096.0	3396.0	3397.3	3369.7
27.5°	3098.5	2666.6	2463.2	2386.6	2431.8	2607.6	2986.7	3440.0	3483.9	3473.9
30°	3013.1	2586.2	2402.9	2349.0	2382.9	2538.5	2875.0	3485.2	3573.0	3590.6
32.5°	2974.2	2625.2	2544.8	2568.7	2524.7	2578.7	2834.8	3549.2	3681.0	3709.9
35°	3025.7	2970.4	3173.8	3268.0	3112.3	2907.6	2886.3	3645.9	3832.9	3875.6
37.5°	3275.5	3709.9	4013.7	4345.1	4075.2	3624.5	3141.2	3810.3	4050.1	4117.9
40°	3819.1	4355.2	4903.8	5331.9	4923.9	4317.5	3625.8	4055.1	4348.9	4410.4
42.5°	4331.3	4960.3	5716.1	6269.8	5740.0	4883.7	4148.0	4466.9	4743.1	4777.0
45°	4833.5	5554.2	6699.1	7468.7	6749.3	5422.3	4681.6	5162.4	5370.9	5372.1
47.5°	5422.3	6223.3	7932.0	9028.0	8088.9	6018.7	5182.5	6263.5	6553.5	6411.6
50°	6126.6	6888.7	9201.3	10842.1	9722.3	6751.9	5819.1	7605.6	8001.0	7840.3
52.5°	7069.5	7621.9	10599.8	12611.1	11502.5	7586.7	6741.8	9378.3	9508.8	9208.8
55°	8396.5	8680.2	12395.1	14795.6	13489.9	8615.0	8091.4	11603.0	11237.6	10377.6
57.5°	11418.4	10355.0	14700.2	17287.7	15738.4	10483.1	11049.3	14056.1	12756.7	11306.7
60°	13946.9	12388.9	16833.2	19760.9	17665.6	12542.0	13826.4	14483.0	12700.2	11203.7
62.5°	13094.4	12907.4	17602.8	20033.4	18323.4	13555.2	13310.4	13407.0	11871.6	10519.5
65°	11488.7	11906.8	16916.1	18741.5	17594.0	12647.5	12039.9	12412.7	10923.8	9561.6
67.5°	10540.8	10848.4	15694.5	16673.8	16268.2	11665.7	11051.8	10781.9	9452.4	8294.8
70°	9571.6	9826.5	13979.5	14078.7	14200.5	10033.6	9036.8	8233.3	7045.6	6235.9
72.5°	8271.0	8284.8	11811.4	11236.4	11467.4	7851.6	7274.1	6155.5	5128.6	4394.1
75°	6938.9	6559.8	9349.4	7854.2	8317.4	6107.8	6040.0	4638.9	3868.1	3265.4
77.5°	5290.5	4847.3	6829.7	5165.0	5841.7	4067.7	4541.0	3146.2	2721.8	2173.2
80°	3551.7	3275.5	3773.9	2915.2	3821.6	2803.4	2961.6	1782.8	1545.5	1199.0
82.5°	1873.1	1599.5	2332.6	1728.8	2305.0	1540.4	1111.1	551.1	469.5	379.1
85°	725.7	839.9	1143.7	615.2	893.9	549.9	321.4	136.8	114.2	86.6
87.5°	140.6	217.2	119.3	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)