

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: P639252

Luminaire Tested: GWS-SA5B-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639252
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-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16641.4 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

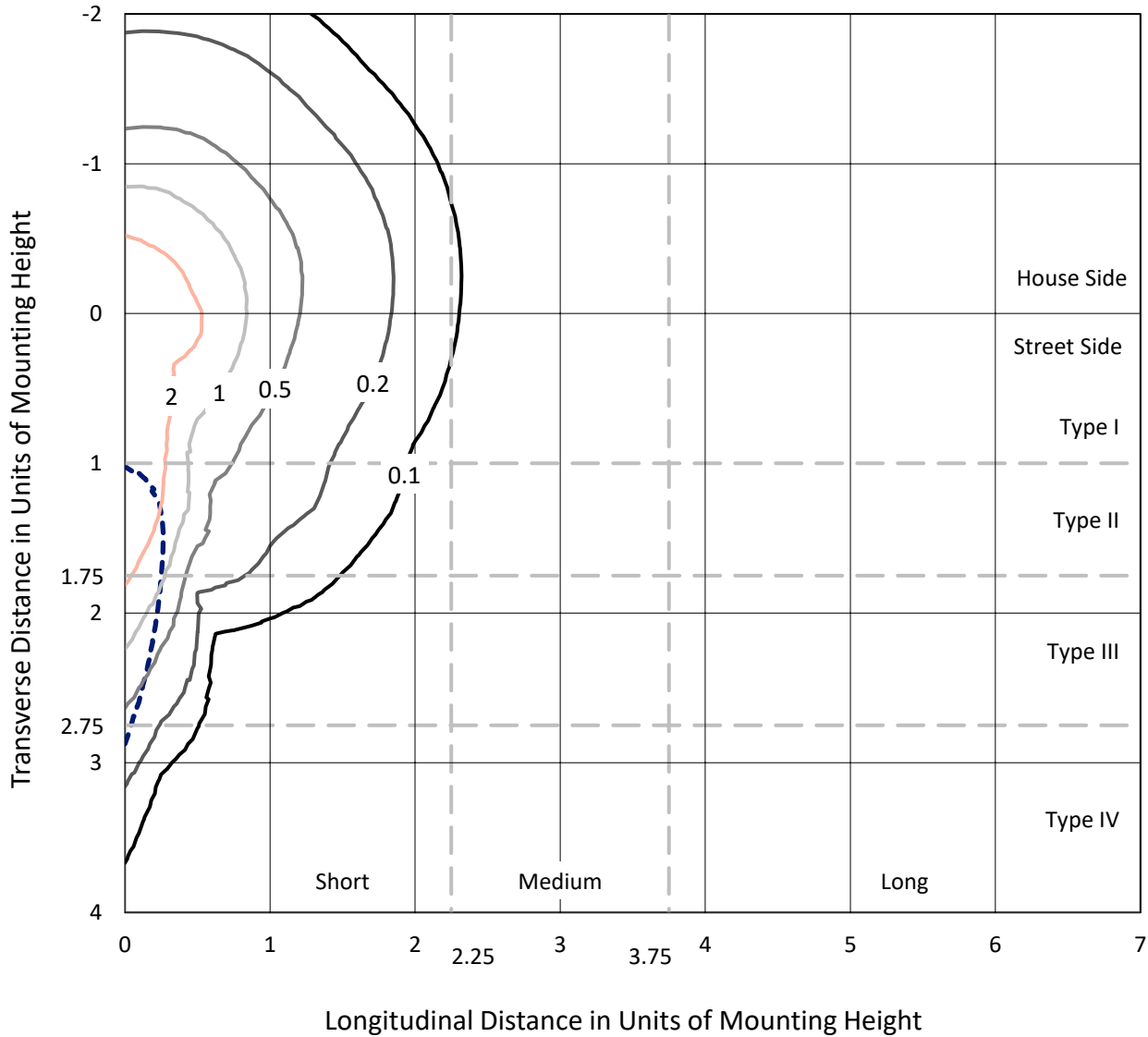
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

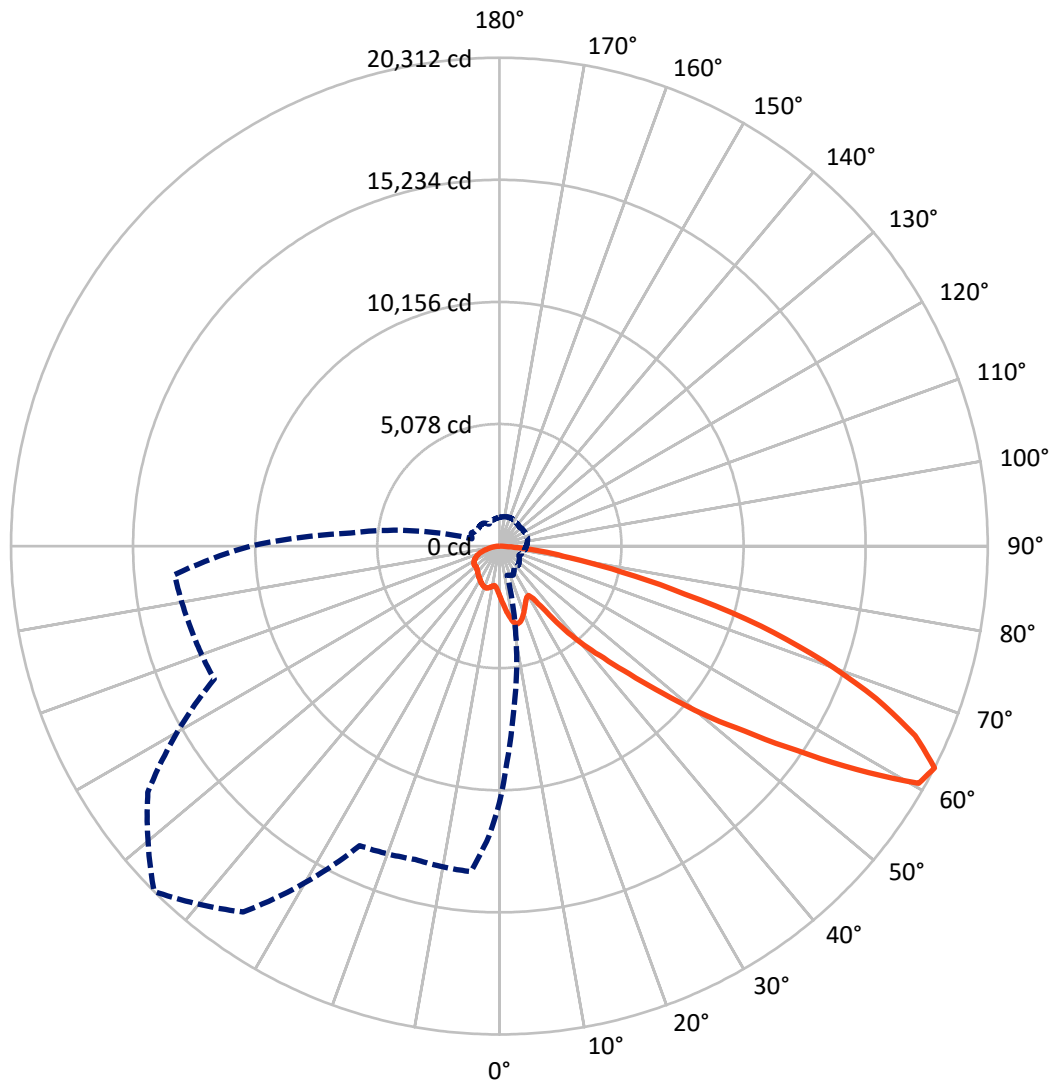
× Max cd
 - - - 1/2 Max cd



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	3979.0	0.0	3979.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12662.4	0.0	12662.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	16641.4	0.0	16641.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.2
10°-20°	664.3	4.0
20°-30°	1045.8	6.3
30°-40°	1433.4	8.6
40°-50°	2236.6	13.4
50°-60°	3856.3	23.2
60°-70°	4469.0	26.9
70°-80°	2358.9	14.2
80°-90°	372.6	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°	16641.4	100.0
0°-180°	16641.4	100.0

Coefficient of Utilization



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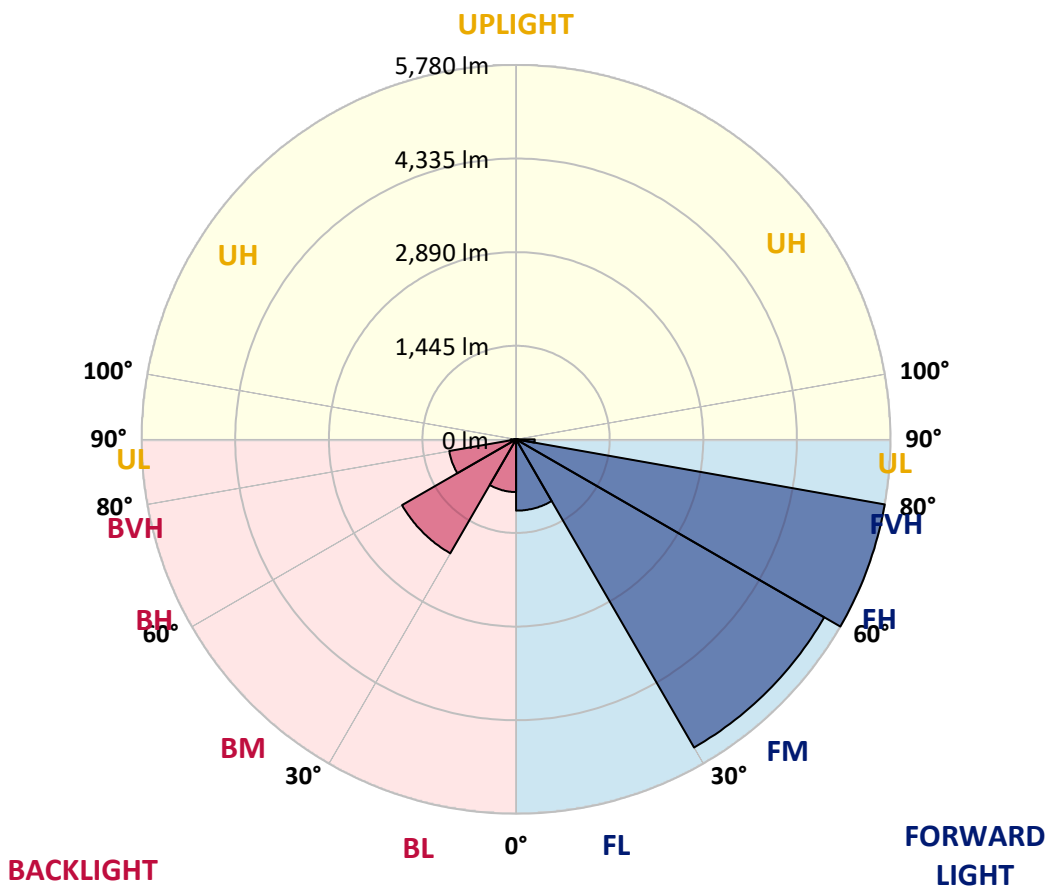
CATALOG NUMBER: GWS-SA5B-740-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.6	6.6			
FM (30°-60°)	5493.9	33.0			
FH (60°-80°)	5780.3	34.7			G3/7500
FVH (80°-90°)	287.6	1.7			G3/500
BL (0°-30°)	813.8	4.9	B2/1000		
BM (30°-60°)	2032.4	12.2	B2/2500		
BH (60°-80°)	1047.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	85.0	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°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	2254.3	2245.4	2232.7	2189.4	2162.7	2132.1	2100.3	2063.4	2021.4	1992.1	1962.8
5°	2445.3	2431.3	2400.7	2297.6	2226.3	2148.7	2083.7	2009.9	1937.4	1887.7	1838.1
7.5°	2628.6	2610.7	2563.6	2405.8	2290.0	2177.9	2079.9	1973.0	1864.8	1791.0	1732.4
10°	2811.9	2774.9	2715.1	2508.9	2356.2	2226.3	2114.3	1983.2	1839.4	1738.8	1676.4
12.5°	2951.9	2917.5	2852.6	2603.1	2422.3	2259.4	2133.4	2012.5	1890.3	1783.3	1719.7
15°	3083.0	3038.4	2964.6	2690.9	2477.1	2258.1	2095.2	1989.6	1971.7	1945.0	1862.3
17.5°	3177.2	3136.4	3060.1	2762.2	2507.6	2218.7	1989.6	1927.2	2007.4	2088.8	2009.9
20°	3259.9	3212.8	3135.2	2811.9	2514.0	2130.8	1861.0	1862.3	1988.3	2100.3	2081.2
22.5°	3329.9	3277.7	3209.0	2867.9	2511.4	2008.6	1749.0	1825.3	1951.4	2039.2	2041.7
25°	3416.5	3373.2	3315.9	2950.6	2511.4	1883.9	1667.5	1780.8	1889.0	1962.8	1960.3
27.5°	3522.1	3492.9	3445.8	3076.6	2534.4	1779.5	1621.7	1723.5	1808.8	1872.4	1871.2
30°	3640.5	3613.8	3578.1	3210.3	2573.8	1701.9	1596.2	1652.2	1714.6	1765.5	1765.5
32.5°	3761.4	3751.3	3713.1	3317.2	2543.3	1677.7	1574.6	1581.0	1614.0	1656.1	1652.2
35°	3929.5	3919.3	3870.9	3399.9	2410.9	1643.3	1540.2	1508.4	1512.2	1538.9	1547.9
37.5°	4175.1	4159.9	4088.6	3496.7	2211.0	1556.8	1484.2	1432.0	1420.6	1432.0	1448.6
40°	4471.7	4448.8	4352.1	3627.8	1980.6	1439.7	1396.4	1353.1	1334.0	1337.8	1356.9
42.5°	4843.4	4795.0	4656.3	3766.5	1752.8	1336.6	1298.4	1271.6	1250.0	1247.4	1284.4
45°	5446.8	5314.4	5094.2	3890.0	1560.6	1281.8	1210.5	1191.4	1173.6	1183.8	1227.1
47.5°	6500.7	6256.3	5827.4	3995.7	1443.5	1283.1	1140.5	1120.2	1118.9	1139.3	1187.6
50°	7949.3	7596.7	6934.8	4066.9	1382.4	1298.4	1098.5	1065.4	1089.6	1110.0	1155.8
52.5°	9336.8	8798.3	8010.4	4065.7	1355.6	1300.9	1110.0	1014.5	1089.6	1094.7	1138.0
55°	10521.8	9546.8	8300.6	3648.2	1317.5	1290.7	1154.5	975.0	1075.6	1094.7	1129.1
57.5°	11463.8	10022.9	8279.0	2946.8	1433.3	1234.7	1181.3	966.1	1034.9	1097.2	1136.7
60°	11359.4	9805.2	7745.6	1808.8	1421.8	1135.4	1177.4	982.7	966.1	1062.9	1127.8
62.5°	10665.7	9024.9	6827.9	1255.1	1335.3	1078.2	1115.1	1012.0	902.5	1013.2	1084.5
65°	9694.5	8018.0	5689.9	962.3	1106.2	1080.7	1009.4	991.6	846.5	934.3	1010.7
67.5°	8410.1	6769.3	4492.1	762.5	771.4	935.6	916.5	880.9	794.3	864.3	933.0
70°	6322.5	4940.2	3090.6	613.5	584.3	781.6	823.6	791.7	743.4	763.7	836.3
72.5°	4455.2	3225.5	1693.0	486.3	450.6	600.8	715.4	710.3	656.8	672.1	743.4
75°	3310.8	2282.3	1057.8	384.4	366.6	430.2	599.5	614.8	570.3	588.1	642.8
77.5°	2203.4	1477.8	588.1	285.1	285.1	314.4	446.8	518.1	485.0	499.0	537.2
80°	1215.6	752.3	294.0	187.1	192.2	216.4	325.9	373.0	374.2	408.6	418.8
82.5°	384.4	239.3	131.1	109.5	103.1	123.5	210.0	267.3	249.5	318.2	292.8
85°	87.8	56.0	24.2	24.2	26.7	40.7	80.2	142.6	182.0	218.9	159.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	56.0	82.7	73.8
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°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	1945.0	1919.5	1911.9	1890.3	1887.7	1867.4	1859.7	1859.7	1868.6	1868.6	1877.5
5°	1817.7	1785.9	1768.1	1742.6	1736.2	1721.0	1710.8	1712.1	1723.5	1731.2	1746.4
7.5°	1705.7	1684.1	1671.3	1659.9	1657.3	1654.8	1643.3	1642.0	1645.9	1657.3	1668.8
10°	1658.6	1643.3	1647.1	1656.1	1670.1	1677.7	1667.5	1662.4	1658.6	1666.2	1676.4
12.5°	1704.4	1689.1	1696.8	1712.1	1731.2	1738.8	1735.0	1733.7	1737.5	1766.8	1788.4
15°	1805.0	1775.7	1765.5	1771.9	1787.2	1794.8	1791.0	1796.1	1820.3	1896.6	1951.4
17.5°	1929.7	1858.4	1817.7	1806.3	1812.6	1819.0	1819.0	1831.7	1873.7	1985.7	2054.5
20°	1997.2	1904.3	1835.5	1807.5	1810.1	1816.4	1816.4	1834.3	1881.4	2001.0	2045.6
22.5°	1979.4	1894.1	1810.1	1779.5	1780.8	1785.9	1785.9	1801.2	1843.2	1948.8	1969.2
25°	1909.4	1834.3	1751.5	1724.8	1727.3	1736.2	1733.7	1742.6	1774.4	1861.0	1872.4
27.5°	1825.3	1759.2	1677.7	1657.3	1668.8	1686.6	1671.3	1672.6	1701.9	1774.4	1775.7
30°	1735.0	1680.2	1607.7	1592.4	1614.0	1623.0	1609.0	1609.0	1638.2	1687.9	1686.6
32.5°	1637.0	1602.6	1550.4	1533.9	1558.0	1572.0	1554.2	1556.8	1579.7	1612.8	1600.0
35°	1545.3	1527.5	1503.3	1491.8	1507.1	1519.9	1508.4	1513.5	1535.1	1544.0	1526.2
37.5°	1457.5	1454.9	1457.5	1457.5	1461.3	1465.1	1457.5	1470.2	1489.3	1477.8	1457.5
40°	1381.1	1391.3	1415.5	1409.1	1405.3	1409.1	1404.0	1425.7	1444.7	1424.4	1400.2
42.5°	1317.5	1336.6	1373.5	1373.5	1365.8	1368.4	1365.8	1392.6	1406.6	1378.6	1351.8
45°	1262.7	1290.7	1337.8	1344.2	1331.5	1331.5	1336.6	1369.6	1374.7	1336.6	1308.5
47.5°	1224.5	1258.9	1312.4	1323.8	1304.7	1303.5	1317.5	1353.1	1353.1	1308.5	1276.7
50°	1197.8	1236.0	1299.6	1314.9	1295.8	1290.7	1313.6	1348.0	1340.4	1286.9	1255.1
52.5°	1180.0	1219.4	1298.4	1320.0	1307.3	1302.2	1325.1	1349.3	1330.2	1272.9	1239.8
55°	1168.5	1211.8	1302.2	1320.0	1306.0	1297.1	1320.0	1341.6	1331.5	1265.3	1233.4
57.5°	1174.9	1218.2	1297.1	1306.0	1289.5	1274.2	1300.9	1331.5	1327.6	1267.8	1236.0
60°	1164.7	1204.2	1269.1	1271.6	1243.6	1219.4	1258.9	1304.7	1304.7	1258.9	1230.9
62.5°	1117.6	1157.1	1214.4	1216.9	1185.1	1158.3	1204.2	1258.9	1257.6	1220.7	1191.4
65°	1040.0	1076.9	1141.8	1148.2	1116.3	1088.3	1135.4	1186.3	1190.2	1157.1	1131.6
67.5°	954.7	987.8	1036.1	1061.6	1034.9	1005.6	1048.9	1097.2	1096.0	1056.5	1029.8
70°	852.8	883.4	927.9	949.6	933.0	905.0	944.5	970.0	958.5	939.4	921.6
72.5°	752.3	781.6	823.6	823.6	805.7	779.0	790.5	836.3	850.3	836.3	824.8
75°	646.6	672.1	701.4	707.7	668.3	619.9	673.4	712.8	729.4	723.0	709.0
77.5°	538.4	557.5	600.8	589.4	515.5	490.1	533.3	591.9	603.4	599.5	580.4
80°	415.0	426.4	472.2	449.3	392.1	375.5	394.6	440.4	443.0	430.2	406.1
82.5°	278.8	294.0	324.6	280.0	278.8	263.5	248.2	253.3	276.2	273.7	257.1
85°	142.6	150.2	179.5	168.0	143.8	124.7	118.4	126.0	113.3	103.1	89.1
87.5°	59.8	64.9	89.1	49.6	15.3	0.0	0.0	7.6	11.5	16.5	17.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	1897.9	1911.9	1946.3	1989.6	2031.6	2074.8	2121.9	2151.2	2186.9	2232.7	2234.0
5°	1765.5	1797.3	1847.0	1913.2	1981.9	2060.8	2152.5	2228.9	2320.5	2393.1	2422.3
7.5°	1684.1	1729.9	1792.3	1876.3	1966.6	2064.7	2184.3	2312.9	2463.1	2559.8	2617.1
10°	1691.7	1761.7	1824.1	1895.4	1976.8	2082.5	2236.5	2407.1	2591.6	2718.9	2790.2
12.5°	1827.9	1901.7	1890.3	1886.4	1941.2	2069.7	2278.5	2502.5	2727.8	2855.1	2940.4
15°	1999.7	2027.7	1919.5	1838.1	1871.2	2023.9	2301.4	2587.8	2841.1	2996.4	3080.4
17.5°	2087.6	2031.6	1900.4	1778.3	1769.3	1953.9	2312.9	2674.4	2968.4	3123.7	3212.8
20°	2046.8	1965.4	1854.6	1738.8	1675.1	1858.4	2306.5	2743.1	3084.3	3257.4	3329.9
22.5°	1959.0	1887.7	1801.2	1690.4	1598.8	1754.1	2290.0	2811.9	3187.4	3361.7	3425.4
25°	1863.5	1810.1	1738.8	1642.0	1555.5	1662.4	2278.5	2903.5	3305.7	3472.5	3513.2
27.5°	1768.1	1728.6	1670.1	1595.0	1545.3	1598.8	2282.3	3023.2	3458.5	3616.3	3599.8
30°	1673.9	1639.5	1598.8	1565.7	1544.0	1583.5	2272.1	3150.4	3626.5	3772.9	3674.9
32.5°	1584.8	1552.9	1527.5	1532.6	1545.3	1589.9	2219.9	3266.3	3780.5	3905.3	3756.3
35°	1508.4	1475.3	1475.3	1493.1	1540.2	1568.2	2085.0	3356.7	3951.1	4075.8	3872.2
37.5°	1437.1	1407.8	1426.9	1456.2	1500.8	1509.7	1911.9	3444.5	4199.3	4316.4	4051.7
40°	1374.7	1345.5	1379.8	1416.7	1439.7	1435.8	1736.2	3566.7	4492.1	4613.0	4289.7
42.5°	1325.1	1298.4	1328.9	1376.0	1379.8	1383.6	1607.7	3683.8	4832.0	4986.0	4699.6
45°	1284.4	1265.3	1280.5	1327.6	1327.6	1386.2	1527.5	3781.8	5343.7	5616.1	5451.9
47.5°	1252.5	1241.1	1248.7	1264.0	1289.5	1432.0	1476.6	3856.9	6275.4	6810.1	6644.6
50°	1234.7	1223.3	1233.4	1201.6	1278.0	1454.9	1460.0	3914.2	7503.8	8341.4	8136.4
52.5°	1219.4	1215.6	1222.0	1148.2	1303.5	1439.7	1447.3	3837.8	8327.4	9848.5	10050.9
55°	1214.4	1216.9	1186.3	1108.7	1334.0	1388.7	1409.1	3291.7	8551.4	11148.1	12404.5
57.5°	1216.9	1209.3	1131.6	1112.5	1335.3	1286.9	1463.8	2348.5	8225.5	11713.3	14707.2
60°	1208.0	1169.8	1065.4	1146.9	1276.7	1167.3	1424.4	1531.3	7366.3	11279.2	14840.8
62.5°	1168.5	1112.5	1008.1	1166.0	1172.3	1096.0	1293.3	1180.0	6220.7	10350.0	13552.6
65°	1111.2	1036.1	959.8	1126.5	1066.7	1062.9	972.5	945.8	5002.5	9243.8	12330.6
67.5°	1017.1	942.0	924.1	1036.1	959.8	942.0	781.6	784.1	3991.8	8065.1	11102.3
70°	910.1	835.0	849.0	936.9	854.1	782.8	632.6	653.0	3028.2	6719.7	9446.2
72.5°	840.1	739.6	740.8	824.8	751.0	633.9	520.6	538.4	1922.1	5064.9	7510.1
75°	709.0	651.7	623.7	668.3	637.7	493.9	437.9	434.1	1139.3	3630.3	5623.7
77.5°	591.9	547.3	533.3	551.2	476.1	365.3	352.6	346.2	645.4	2325.6	3685.1
80°	429.0	417.5	416.2	425.2	366.6	268.6	268.6	269.9	347.5	1262.7	2077.4
82.5°	272.4	297.9	263.5	292.8	249.5	190.9	178.2	202.4	199.8	538.4	875.8
85°	113.3	155.3	145.1	154.0	118.4	104.4	112.0	120.9	115.8	207.5	341.1
87.5°	21.6	25.5	28.0	26.7	26.7	33.1	36.9	44.6	44.6	59.8	103.1
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°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	2282.3	2319.2	2311.6	2328.1	2306.5	2314.1	2270.9	2259.4	2251.8	2254.3
5°	2516.5	2591.6	2605.6	2633.6	2614.6	2614.6	2538.2	2480.9	2460.5	2445.3
7.5°	2754.6	2862.8	2934.1	2941.7	2931.5	2911.1	2800.4	2697.3	2660.4	2628.6
10°	2965.9	3095.7	3175.9	3214.1	3195.0	3163.2	3025.7	2884.4	2839.9	2811.9
12.5°	3127.5	3242.1	3295.6	3321.0	3318.5	3307.0	3195.0	3042.2	2995.1	2951.9
15°	3231.9	3289.2	3268.8	3267.6	3285.4	3331.2	3296.8	3177.2	3122.4	3083.0
17.5°	3299.4	3244.6	3154.3	3112.3	3150.4	3258.6	3337.6	3270.1	3220.5	3177.2
20°	3323.6	3128.8	2997.7	2920.0	2964.6	3121.2	3315.9	3337.6	3295.6	3259.9
22.5°	3295.6	2987.5	2809.3	2717.7	2760.9	2948.1	3252.3	3392.3	3364.3	3329.9
25°	3226.8	2839.9	2626.0	2543.3	2590.4	2781.3	3139.0	3443.2	3444.5	3416.5
27.5°	3141.5	2703.7	2497.4	2419.8	2465.6	2643.8	3028.2	3487.8	3532.3	3522.1
30°	3055.0	2622.2	2436.3	2381.6	2416.0	2573.8	2915.0	3533.6	3622.7	3640.5
32.5°	3015.5	2661.6	2580.2	2604.4	2559.8	2614.6	2874.2	3598.5	3732.2	3761.4
35°	3067.7	3011.7	3217.9	3313.4	3155.5	2948.1	2926.4	3696.5	3886.2	3929.5
37.5°	3321.0	3761.4	4069.5	4405.5	4131.9	3674.9	3184.8	3863.3	4106.4	4175.1
40°	3872.2	4415.7	4972.0	5406.0	4992.3	4377.5	3676.2	4111.5	4409.3	4471.7
42.5°	4391.5	5029.3	5795.5	6356.9	5819.7	4951.6	4205.7	4529.0	4809.0	4843.4
45°	4900.7	5631.3	6792.2	7572.5	6843.1	5497.7	4746.7	5234.2	5445.5	5446.8
47.5°	5497.7	6309.8	8042.2	9153.5	8201.3	6102.3	5254.6	6350.5	6644.6	6500.7
50°	6211.8	6984.4	9329.1	10992.8	9857.4	6845.7	5899.9	7711.3	8112.2	7949.3
52.5°	7167.7	7727.8	10747.2	12786.3	11662.4	7692.2	6835.5	9508.6	9641.0	9336.8
55°	8513.2	8800.9	12567.4	15001.2	13677.4	8734.7	8203.9	11764.2	11393.8	10521.8
57.5°	11577.1	10498.9	14904.5	17527.9	15957.2	10628.8	11202.9	14251.5	12934.0	11463.8
60°	14140.7	12561.0	17067.1	20035.6	17911.1	12716.3	14018.5	14684.3	12876.7	11359.4
62.5°	13276.4	13086.8	17847.4	20311.8	18578.1	13743.6	13495.4	13593.4	12036.6	10665.7
65°	11648.4	12072.2	17151.1	19002.0	17838.5	12823.3	12207.2	12585.2	11075.6	9694.5
67.5°	10687.3	10999.2	15912.6	16905.5	16494.3	11827.8	11205.4	10931.7	9583.7	8410.1
70°	9704.6	9963.0	14173.8	14274.4	14397.8	10173.1	9162.4	8347.7	7143.6	6322.5
72.5°	8385.9	8399.9	11975.5	11392.5	11626.7	7960.8	7375.2	6241.1	5199.8	4455.2
75°	7035.4	6650.9	9479.3	7963.3	8433.0	6192.7	6124.0	4703.4	3921.8	3310.8
77.5°	5364.0	4914.7	6924.6	5236.7	5922.8	4124.2	4604.1	3189.9	2759.7	2203.4
80°	3601.1	3321.0	3826.4	2955.7	3874.7	2842.4	3002.8	1807.5	1566.9	1215.6
82.5°	1899.2	1621.7	2365.1	1752.8	2337.1	1561.9	1126.5	558.8	476.1	384.4
85°	735.7	851.6	1159.6	623.7	906.3	557.5	325.9	138.7	115.8	87.8
87.5°	142.6	220.2	120.9	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)