

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: P639362

Luminaire Tested: GWS-SA5B-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639362
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-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16789.5 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

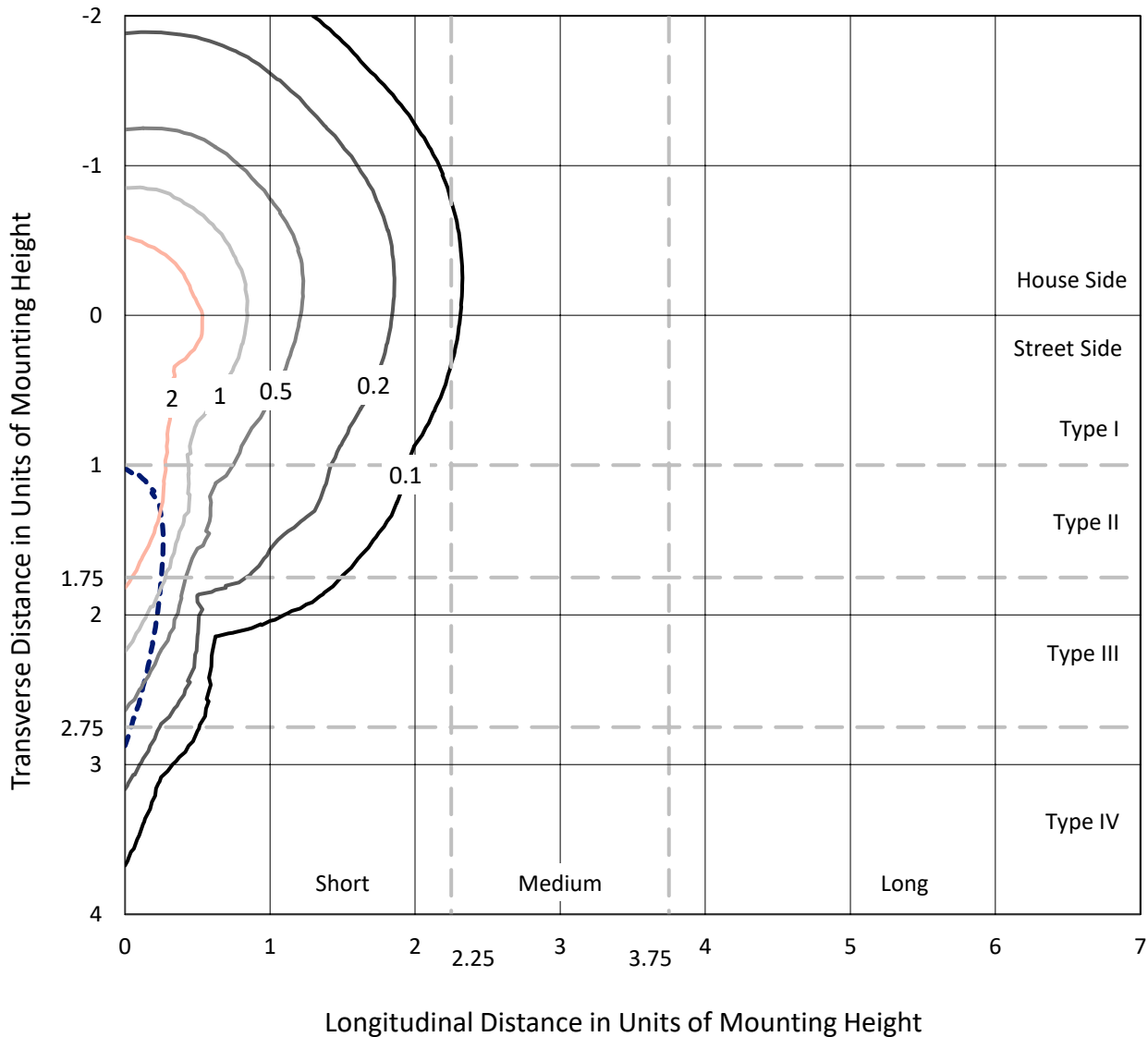
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

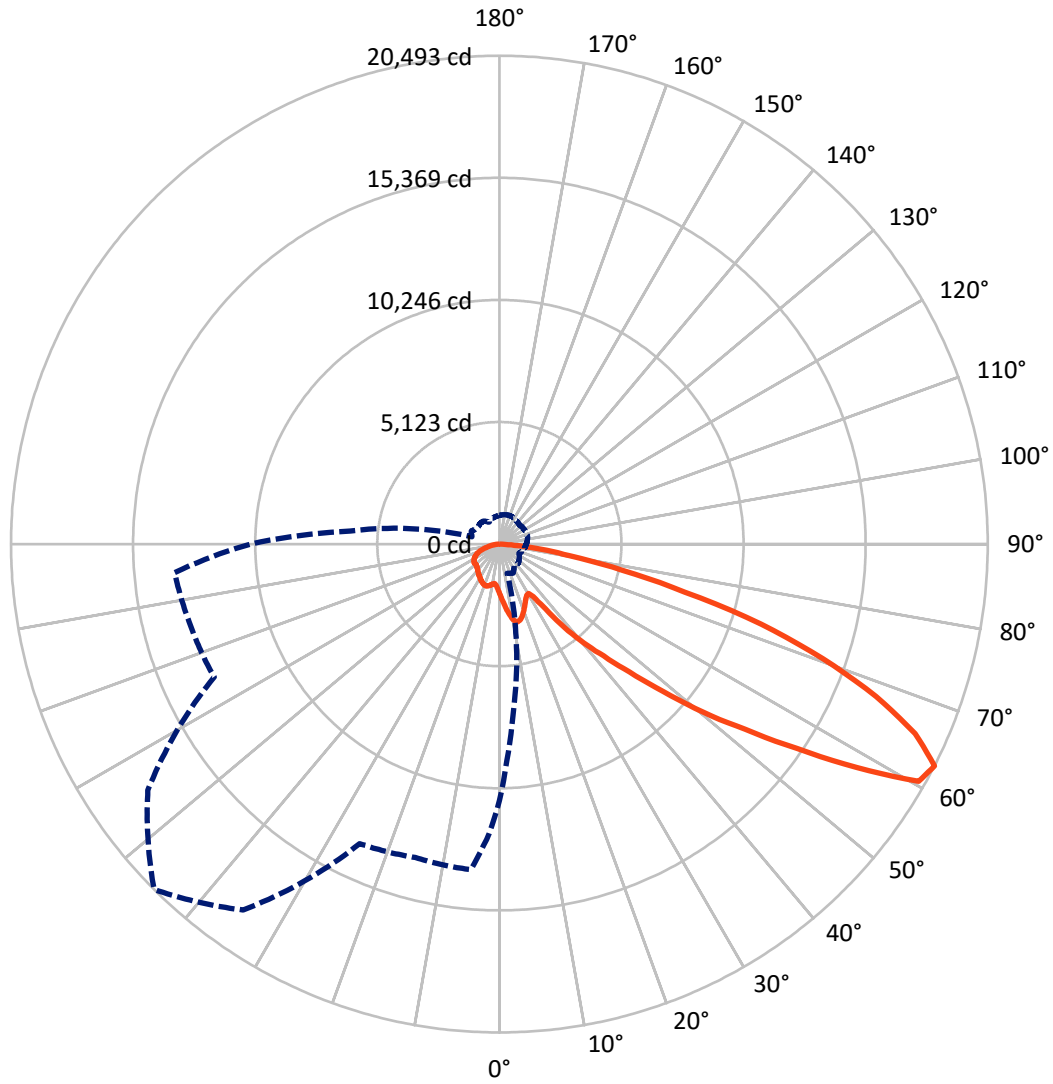
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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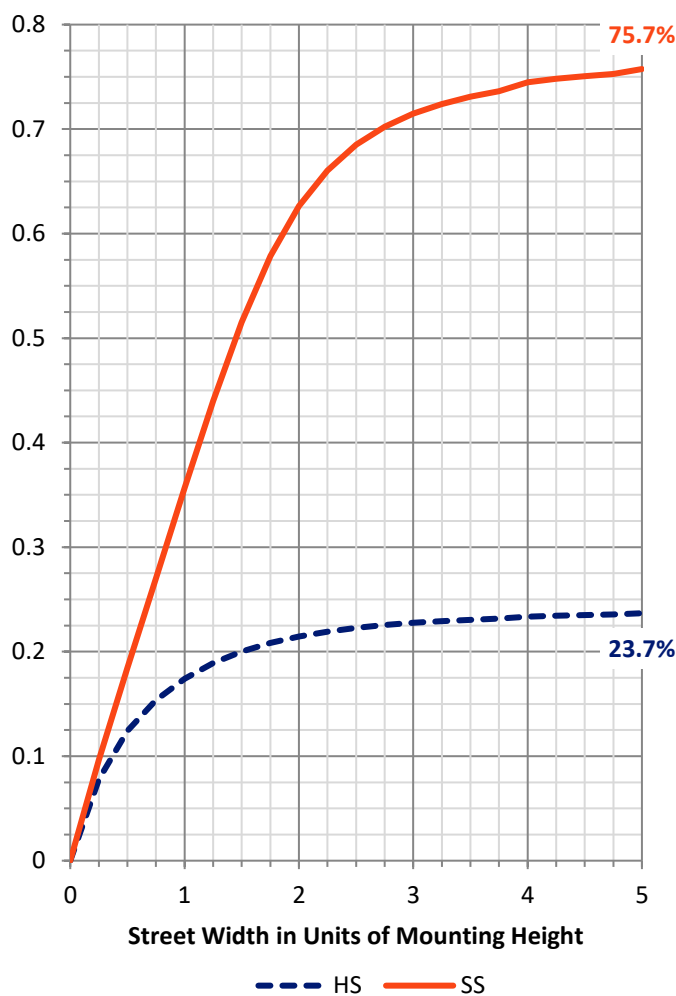
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4014.4	0.0	4014.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12775.1	0.0	12775.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	16789.5	0.0	16789.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	1.2
10°-20°	670.2	4.0
20°-30°	1055.1	6.3
30°-40°	1446.2	8.6
40°-50°	2256.5	13.4
50°-60°	3890.6	23.2
60°-70°	4508.8	26.9
70°-80°	2379.9	14.2
80°-90°	376.0	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°	16789.5	100.0
0°-180°	16789.5	100.0

Coefficient of Utilization



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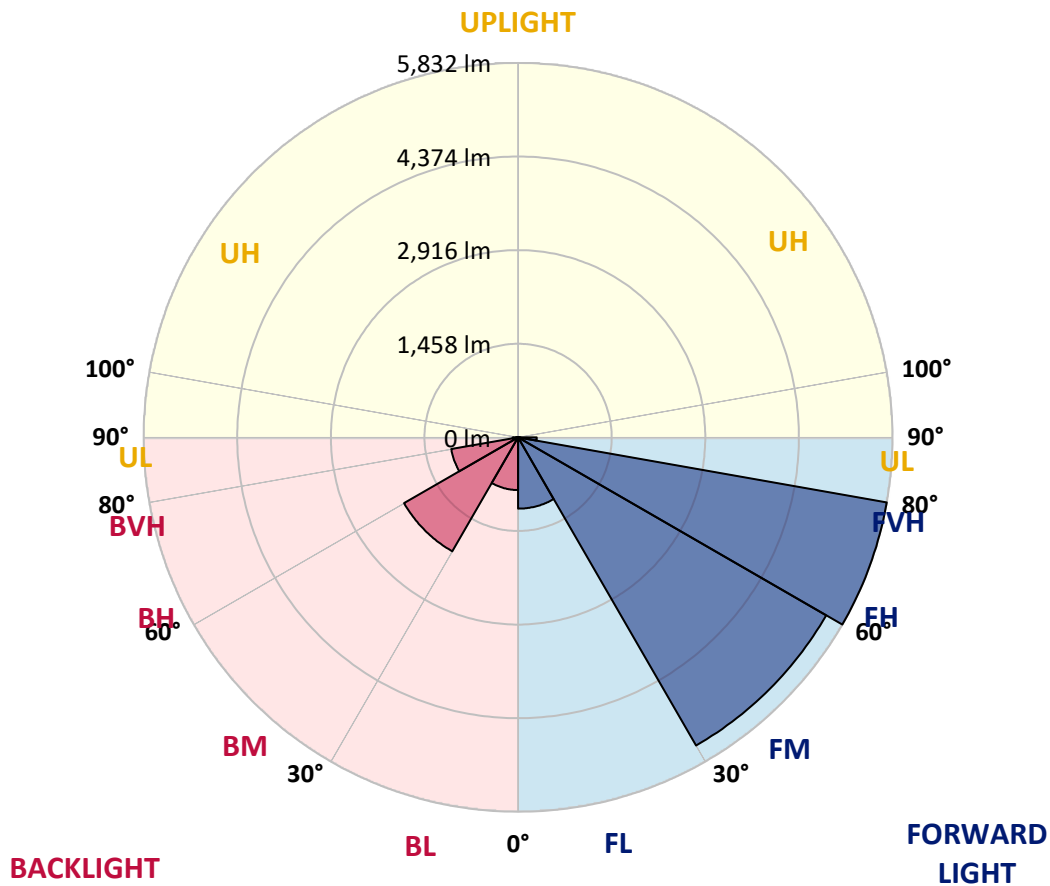
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.4	6.6			
FM (30°-60°)	5542.8	33.0			
FH (60°-80°)	5831.7	34.7			G3/7500
FVH (80°-90°)	290.2	1.7			G3/500
BL (0°-30°)	821.1	4.9	B2/1000		
BM (30°-60°)	2050.5	12.2	B2/2500		
BH (60°-80°)	1057.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	85.8	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°	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3
2.5°	2274.4	2265.4	2252.5	2208.9	2181.9	2151.1	2119.0	2081.7	2039.4	2009.8	1980.3
5°	2467.0	2452.9	2422.1	2318.0	2246.1	2167.8	2102.3	2027.8	1954.6	1904.5	1854.4
7.5°	2651.9	2634.0	2586.4	2427.2	2310.3	2197.3	2098.4	1990.6	1881.4	1806.9	1747.8
10°	2836.9	2799.6	2739.3	2531.2	2377.1	2246.1	2133.1	2000.8	1855.7	1754.3	1691.3
12.5°	2978.1	2943.5	2878.0	2626.3	2443.9	2279.5	2152.4	2030.4	1907.1	1799.2	1735.0
15°	3110.4	3065.5	2991.0	2714.9	2499.1	2278.2	2113.9	2007.3	1989.3	1962.3	1878.8
17.5°	3205.5	3164.4	3087.3	2786.8	2529.9	2238.4	2007.3	1944.3	2025.2	2107.4	2027.8
20°	3288.9	3241.4	3163.1	2836.9	2536.4	2149.8	1877.6	1878.8	2006.0	2119.0	2099.7
22.5°	3359.6	3306.9	3237.6	2893.4	2533.8	2026.5	1764.5	1841.6	1968.7	2057.3	2059.9
25°	3446.9	3403.2	3345.4	2976.9	2533.8	1900.7	1682.3	1796.6	1905.8	1980.3	1977.7
27.5°	3553.5	3523.9	3476.4	3104.0	2556.9	1795.4	1636.1	1738.9	1824.9	1889.1	1887.8
30°	3672.9	3645.9	3610.0	3238.8	2596.7	1717.0	1610.4	1666.9	1729.9	1781.2	1781.2
32.5°	3794.9	3784.6	3746.1	3346.7	2565.9	1692.6	1588.6	1595.0	1628.4	1670.8	1666.9
35°	3964.4	3954.2	3905.4	3430.2	2432.3	1657.9	1553.9	1521.8	1525.7	1552.6	1561.6
37.5°	4212.3	4196.9	4125.0	3527.8	2230.7	1570.6	1497.4	1444.8	1433.2	1444.8	1461.5
40°	4511.5	4488.4	4390.8	3660.1	1998.3	1452.5	1408.8	1365.1	1345.9	1349.7	1369.0
42.5°	4886.5	4837.7	4697.7	3800.1	1768.4	1348.4	1309.9	1283.0	1261.1	1258.6	1295.8
45°	5495.2	5361.7	5139.5	3924.6	1574.5	1293.2	1221.3	1202.0	1184.1	1194.3	1238.0
47.5°	6558.6	6312.0	5879.2	4031.2	1456.3	1294.5	1150.7	1130.1	1128.8	1149.4	1198.2
50°	8020.0	7664.3	6996.5	4103.1	1394.7	1309.9	1108.3	1074.9	1099.3	1119.9	1166.1
52.5°	9419.9	8876.6	8081.7	4101.8	1367.7	1312.5	1119.9	1023.5	1099.3	1104.4	1148.1
55°	10615.5	9631.8	8374.5	3680.6	1329.2	1302.2	1164.8	983.7	1085.2	1104.4	1139.1
57.5°	11565.8	10112.1	8352.7	2973.0	1446.0	1245.7	1191.8	974.7	1044.1	1107.0	1146.8
60°	11460.5	9892.5	7814.6	1824.9	1434.5	1145.5	1187.9	991.4	974.7	1072.3	1137.8
62.5°	10760.6	9105.2	6888.6	1266.3	1347.2	1087.7	1125.0	1021.0	910.5	1022.3	1094.2
65°	9780.7	8089.4	5740.5	970.9	1116.0	1090.3	1018.4	1000.4	854.0	942.6	1019.7
67.5°	8484.9	6829.6	4532.1	769.3	778.2	943.9	924.6	888.7	801.4	872.0	941.3
70°	6378.8	4984.1	3118.1	619.0	589.5	788.5	830.9	798.8	750.0	770.5	843.7
72.5°	4494.8	3254.3	1708.0	490.6	454.6	606.2	721.7	716.6	662.7	678.1	750.0
75°	3340.3	2302.6	1067.2	387.8	369.9	434.1	604.9	620.3	575.3	593.3	648.5
77.5°	2223.0	1491.0	593.3	287.7	287.7	317.2	450.8	522.7	489.3	503.4	541.9
80°	1226.4	759.0	296.7	188.8	193.9	218.3	328.8	376.3	377.6	412.2	422.5
82.5°	387.8	241.4	132.3	110.4	104.0	124.6	211.9	269.7	251.7	321.1	295.4
85°	88.6	56.5	24.4	24.4	27.0	41.1	80.9	143.8	183.6	220.9	160.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	56.5	83.5	74.5
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°	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3
2.5°	1962.3	1936.6	1928.9	1907.1	1904.5	1884.0	1876.3	1876.3	1885.3	1885.3	1894.2
5°	1833.9	1801.8	1783.8	1758.1	1751.7	1736.3	1726.0	1727.3	1738.9	1746.6	1762.0
7.5°	1720.9	1699.0	1686.2	1674.6	1672.1	1669.5	1657.9	1656.7	1660.5	1672.1	1683.6
10°	1673.4	1657.9	1661.8	1670.8	1684.9	1692.6	1682.3	1677.2	1673.4	1681.1	1691.3
12.5°	1719.6	1704.2	1711.9	1727.3	1746.6	1754.3	1750.4	1749.1	1753.0	1782.5	1804.4
15°	1821.0	1791.5	1781.2	1787.7	1803.1	1810.8	1806.9	1812.1	1836.5	1913.5	1968.7
17.5°	1946.9	1875.0	1833.9	1822.3	1828.8	1835.2	1835.2	1848.0	1890.4	2003.4	2072.8
20°	2015.0	1921.2	1851.9	1823.6	1826.2	1832.6	1832.6	1850.6	1898.1	2018.8	2063.8
22.5°	1997.0	1910.9	1826.2	1795.4	1796.6	1801.8	1801.8	1817.2	1859.6	1966.2	1986.7
25°	1926.4	1850.6	1767.1	1740.1	1742.7	1751.7	1749.1	1758.1	1790.2	1877.6	1889.1
27.5°	1841.6	1774.8	1692.6	1672.1	1683.6	1701.6	1686.2	1687.5	1717.0	1790.2	1791.5
30°	1750.4	1695.2	1622.0	1606.6	1628.4	1637.4	1623.3	1623.3	1652.8	1702.9	1701.6
32.5°	1651.5	1616.9	1564.2	1547.5	1571.9	1586.0	1568.1	1570.6	1593.7	1627.1	1614.3
35°	1559.1	1541.1	1516.7	1505.1	1520.5	1533.4	1521.8	1527.0	1548.8	1557.8	1539.8
37.5°	1470.4	1467.9	1470.4	1470.4	1474.3	1478.2	1470.4	1483.3	1502.6	1491.0	1470.4
40°	1393.4	1403.7	1428.1	1421.6	1417.8	1421.6	1416.5	1438.3	1457.6	1437.1	1412.7
42.5°	1329.2	1348.4	1385.7	1385.7	1378.0	1380.6	1378.0	1405.0	1419.1	1390.8	1363.9
45°	1274.0	1302.2	1349.7	1356.2	1343.3	1343.3	1348.4	1381.8	1387.0	1348.4	1320.2
47.5°	1235.4	1270.1	1324.0	1335.6	1316.3	1315.1	1329.2	1365.1	1365.1	1320.2	1288.1
50°	1208.5	1247.0	1311.2	1326.6	1307.4	1302.2	1325.3	1360.0	1352.3	1298.4	1266.3
52.5°	1190.5	1230.3	1309.9	1331.8	1318.9	1313.8	1336.9	1361.3	1342.0	1284.2	1250.8
55°	1178.9	1222.6	1313.8	1331.8	1317.6	1308.6	1331.8	1353.6	1343.3	1276.5	1244.4
57.5°	1185.3	1229.0	1308.6	1317.6	1300.9	1285.5	1312.5	1343.3	1339.5	1279.1	1247.0
60°	1175.1	1214.9	1280.4	1283.0	1254.7	1230.3	1270.1	1316.3	1316.3	1270.1	1241.9
62.5°	1127.6	1167.4	1225.2	1227.7	1195.6	1168.7	1214.9	1270.1	1268.8	1231.6	1202.0
65°	1049.2	1086.5	1152.0	1158.4	1126.3	1098.0	1145.5	1196.9	1200.8	1167.4	1141.7
67.5°	963.2	996.6	1045.4	1071.1	1044.1	1014.5	1058.2	1107.0	1105.7	1065.9	1038.9
70°	860.4	891.3	936.2	958.0	941.3	913.1	952.9	978.6	967.0	947.8	929.8
72.5°	759.0	788.5	830.9	830.9	812.9	786.0	797.5	843.7	857.9	843.7	832.2
75°	652.4	678.1	707.6	714.0	674.2	625.4	679.4	719.2	735.9	729.4	715.3
77.5°	543.2	562.5	606.2	594.6	520.1	494.4	538.1	597.2	608.7	604.9	585.6
80°	418.7	430.2	476.5	453.3	395.5	378.8	398.1	444.3	446.9	434.1	409.7
82.5°	281.2	296.7	327.5	282.5	281.2	265.8	250.4	255.6	278.7	276.1	259.4
85°	143.8	151.5	181.1	169.5	145.1	125.9	119.4	127.1	114.3	104.0	89.9
87.5°	60.4	65.5	89.9	50.1	15.4	0.0	0.0	7.7	11.6	16.7	18.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3
2.5°	1914.8	1928.9	1963.6	2007.3	2049.6	2093.3	2140.8	2170.4	2206.3	2252.5	2253.8
5°	1781.2	1813.3	1863.4	1930.2	1999.6	2079.2	2171.6	2248.7	2341.2	2414.4	2443.9
7.5°	1699.0	1745.3	1808.2	1893.0	1984.1	2083.0	2203.7	2333.5	2485.0	2582.6	2640.4
10°	1706.7	1777.4	1840.3	1912.2	1994.4	2101.0	2256.4	2428.5	2614.7	2743.1	2815.0
12.5°	1844.2	1918.6	1907.1	1903.2	1958.5	2088.2	2298.8	2524.8	2752.1	2880.5	2966.6
15°	2017.5	2045.8	1936.6	1854.4	1887.8	2041.9	2321.9	2610.8	2866.4	3023.1	3107.8
17.5°	2106.1	2049.6	1917.4	1794.1	1785.1	1971.3	2333.5	2698.2	2994.8	3151.5	3241.4
20°	2065.0	1982.9	1871.1	1754.3	1690.1	1875.0	2327.0	2767.5	3111.7	3286.4	3359.6
22.5°	1976.4	1904.5	1817.2	1705.5	1613.0	1769.7	2310.3	2836.9	3215.7	3391.7	3455.9
25°	1880.1	1826.2	1754.3	1656.7	1569.3	1677.2	2298.8	2929.3	3335.2	3503.4	3544.5
27.5°	1783.8	1744.0	1684.9	1609.1	1559.1	1613.0	2302.6	3050.1	3489.3	3648.5	3631.8
30°	1688.8	1654.1	1613.0	1579.6	1557.8	1597.6	2292.4	3178.5	3658.8	3806.5	3707.6
32.5°	1598.9	1566.8	1541.1	1546.2	1559.1	1604.0	2239.7	3295.3	3814.2	3940.0	3789.8
35°	1521.8	1488.4	1488.4	1506.4	1553.9	1582.2	2103.6	3386.5	3986.3	4112.1	3906.6
37.5°	1449.9	1420.4	1439.6	1469.2	1514.1	1523.1	1928.9	3475.1	4236.7	4354.8	4087.7
40°	1387.0	1357.4	1392.1	1429.4	1452.5	1448.6	1751.7	3598.4	4532.1	4654.1	4327.9
42.5°	1336.9	1309.9	1340.7	1388.3	1392.1	1396.0	1622.0	3716.6	4875.0	5030.3	4741.4
45°	1295.8	1276.5	1291.9	1339.5	1339.5	1398.5	1541.1	3815.5	5391.2	5666.0	5500.4
47.5°	1263.7	1252.1	1259.8	1275.2	1300.9	1444.8	1489.7	3891.2	6331.3	6870.7	6703.7
50°	1245.7	1234.1	1244.4	1212.3	1289.4	1467.9	1473.0	3949.0	7570.6	8415.6	8208.8
52.5°	1230.3	1226.4	1232.9	1158.4	1315.1	1452.5	1460.2	3872.0	8401.5	9936.1	10140.3
55°	1225.2	1227.7	1196.9	1118.6	1345.9	1401.1	1421.6	3321.0	8627.5	11247.3	12514.9
57.5°	1227.7	1220.0	1141.7	1122.4	1347.2	1298.4	1476.9	2369.4	8298.7	11817.5	14838.1
60°	1218.7	1180.2	1074.9	1157.1	1288.1	1177.6	1437.1	1544.9	7431.9	11379.6	14972.9
62.5°	1178.9	1122.4	1017.1	1176.4	1182.8	1105.7	1304.8	1190.5	6276.1	10442.1	13673.2
65°	1121.1	1045.4	968.3	1136.5	1076.2	1072.3	981.2	954.2	5047.0	9326.1	12440.4
67.5°	1026.1	950.3	932.4	1045.4	968.3	950.3	788.5	791.1	4027.4	8136.9	11201.1
70°	918.2	842.5	856.6	945.2	861.7	789.8	638.3	658.8	3055.2	6779.5	9530.3
72.5°	847.6	746.1	747.4	832.2	757.7	639.5	525.3	543.2	1939.2	5110.0	7577.0
75°	715.3	657.5	629.3	674.2	643.4	498.3	441.8	437.9	1149.4	3662.6	5673.8
77.5°	597.2	552.2	538.1	556.1	480.3	368.6	355.7	349.3	651.1	2346.3	3717.9
80°	432.8	421.2	419.9	428.9	369.9	271.0	271.0	272.3	350.6	1274.0	2095.9
82.5°	274.8	300.5	265.8	295.4	251.7	192.6	179.8	204.2	201.6	543.2	883.6
85°	114.3	156.7	146.4	155.4	119.4	105.3	113.0	122.0	116.9	209.3	344.2
87.5°	21.8	25.7	28.3	27.0	27.0	33.4	37.2	44.9	44.9	60.4	104.0
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°	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3	2093.3
2.5°	2302.6	2339.9	2332.2	2348.9	2327.0	2334.7	2291.1	2279.5	2271.8	2274.4
5°	2538.9	2614.7	2628.8	2657.1	2637.8	2637.8	2560.8	2503.0	2482.4	2467.0
7.5°	2779.1	2888.2	2960.2	2967.9	2957.6	2937.0	2825.3	2721.3	2684.1	2651.9
10°	2992.3	3123.3	3204.2	3242.7	3223.4	3191.3	3052.6	2910.1	2865.1	2836.9
12.5°	3155.4	3270.9	3324.9	3350.6	3348.0	3336.4	3223.4	3069.3	3021.8	2978.1
15°	3260.7	3318.5	3297.9	3296.6	3314.6	3360.8	3326.2	3205.5	3150.2	3110.4
17.5°	3328.7	3273.5	3182.3	3140.0	3178.5	3287.6	3367.3	3299.2	3249.1	3205.5
20°	3353.1	3156.6	3024.4	2946.0	2991.0	3148.9	3345.4	3367.3	3324.9	3288.9
22.5°	3324.9	3014.1	2834.3	2741.8	2785.5	2974.3	3281.2	3422.5	3394.2	3359.6
25°	3255.5	2865.1	2649.4	2565.9	2613.4	2806.1	3166.9	3473.9	3475.1	3446.9
27.5°	3169.5	2727.7	2519.7	2441.3	2487.6	2667.4	3055.2	3518.8	3563.8	3553.5
30°	3082.2	2645.5	2458.0	2402.8	2437.5	2596.7	2940.9	3565.0	3654.9	3672.9
32.5°	3042.4	2685.3	2603.1	2627.5	2582.6	2637.8	2899.8	3630.5	3765.4	3794.9
35°	3095.0	3038.5	3246.5	3342.9	3183.6	2974.3	2952.5	3729.4	3920.8	3964.4
37.5°	3350.6	3794.9	4105.7	4444.7	4168.6	3707.6	3213.2	3897.7	4142.9	4212.3
40°	3906.6	4455.0	5016.2	5454.1	5036.8	4416.5	3708.9	4148.1	4448.6	4511.5
42.5°	4430.6	5074.0	5847.1	6413.5	5871.5	4995.7	4243.1	4569.3	4851.8	4886.5
45°	4944.3	5681.5	6852.7	7639.9	6904.0	5546.6	4788.9	5280.8	5494.0	5495.2
47.5°	5546.6	6366.0	8113.8	9234.9	8274.3	6156.6	5301.3	6407.0	6703.7	6558.6
50°	6267.1	7046.6	9412.2	11090.7	9945.1	6906.6	5952.4	7779.9	8184.4	8020.0
52.5°	7231.5	7796.6	10842.8	12900.1	11766.2	7760.6	6896.3	9593.2	9726.8	9419.9
55°	8589.0	8879.2	12679.3	15134.7	13799.1	8812.4	8276.9	11868.9	11495.2	10615.5
57.5°	11680.1	10592.4	15037.1	17683.9	16099.2	10723.4	11302.6	14378.3	13049.1	11565.8
60°	14266.6	12672.8	17219.0	20213.9	18070.5	12829.5	14143.3	14814.9	12991.3	11460.5
62.5°	13394.6	13203.2	18006.3	20492.5	18743.4	13865.9	13615.5	13714.3	12143.7	10760.6
65°	11752.0	12179.7	17303.8	19171.1	17997.3	12937.4	12315.8	12697.2	11174.1	9780.7
67.5°	10782.4	11097.1	16054.2	17055.9	16641.1	11933.1	11305.1	11029.0	9669.0	8484.9
70°	9791.0	10051.7	14300.0	14401.4	14526.0	10263.6	9243.9	8422.0	7207.1	6378.8
72.5°	8460.5	8474.7	12082.1	11493.9	11730.2	8031.6	7440.9	6296.6	5246.1	4494.8
75°	7098.0	6710.1	9563.7	8034.2	8508.1	6247.8	6178.5	4745.2	3956.7	3340.3
77.5°	5411.8	4958.4	6986.2	5283.3	5975.5	4160.9	4645.1	3218.3	2784.2	2223.0
80°	3633.1	3350.6	3860.4	2982.0	3909.2	2867.7	3029.5	1823.6	1580.9	1226.4
82.5°	1916.1	1636.1	2386.1	1768.4	2357.9	1575.8	1136.5	563.8	480.3	387.8
85°	742.3	859.2	1169.9	629.3	914.4	562.5	328.8	140.0	116.9	88.6
87.5°	143.8	222.2	122.0	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)