

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: P636066

Luminaire Tested: GWS-SA3F-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17052.8 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

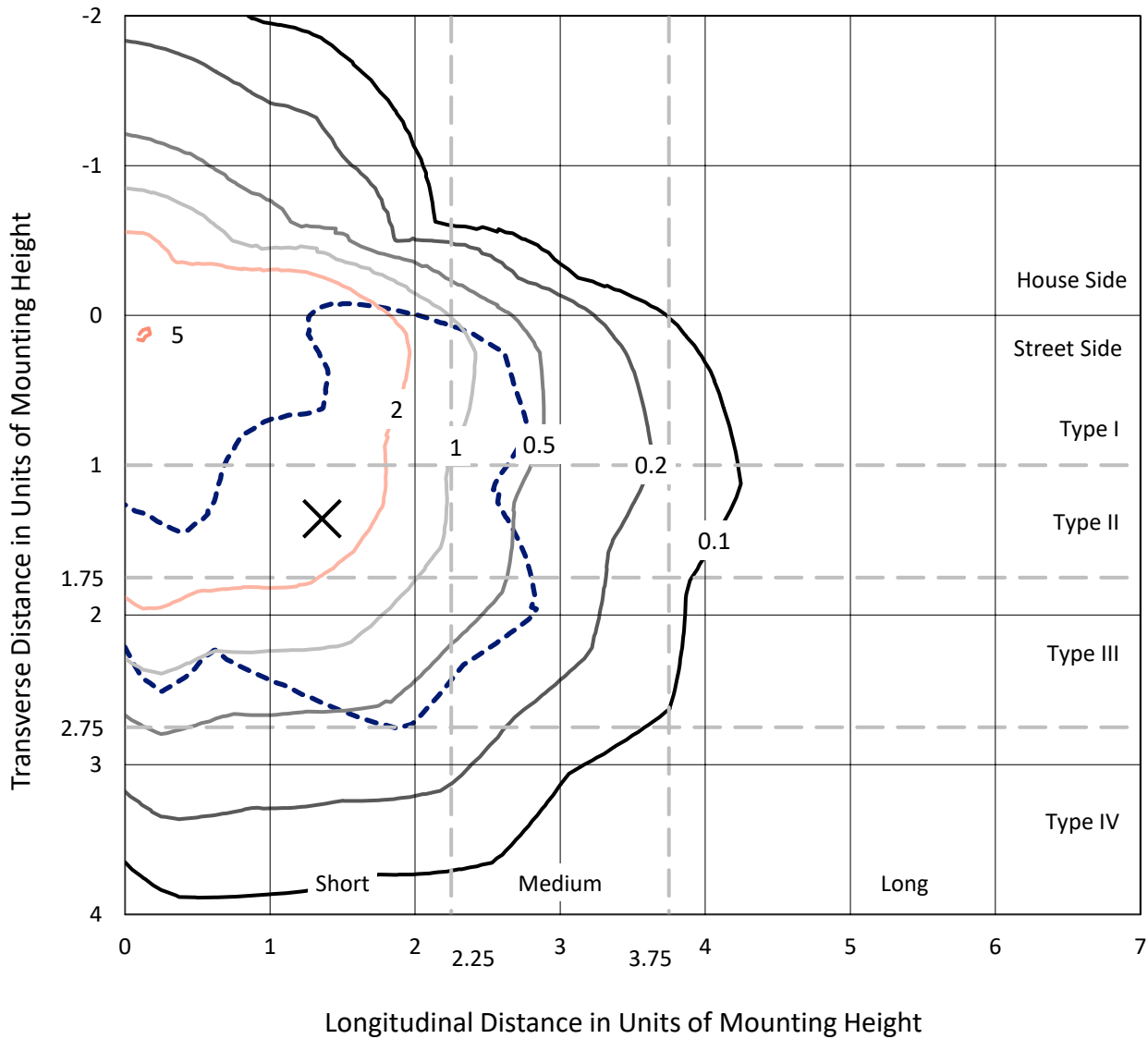
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

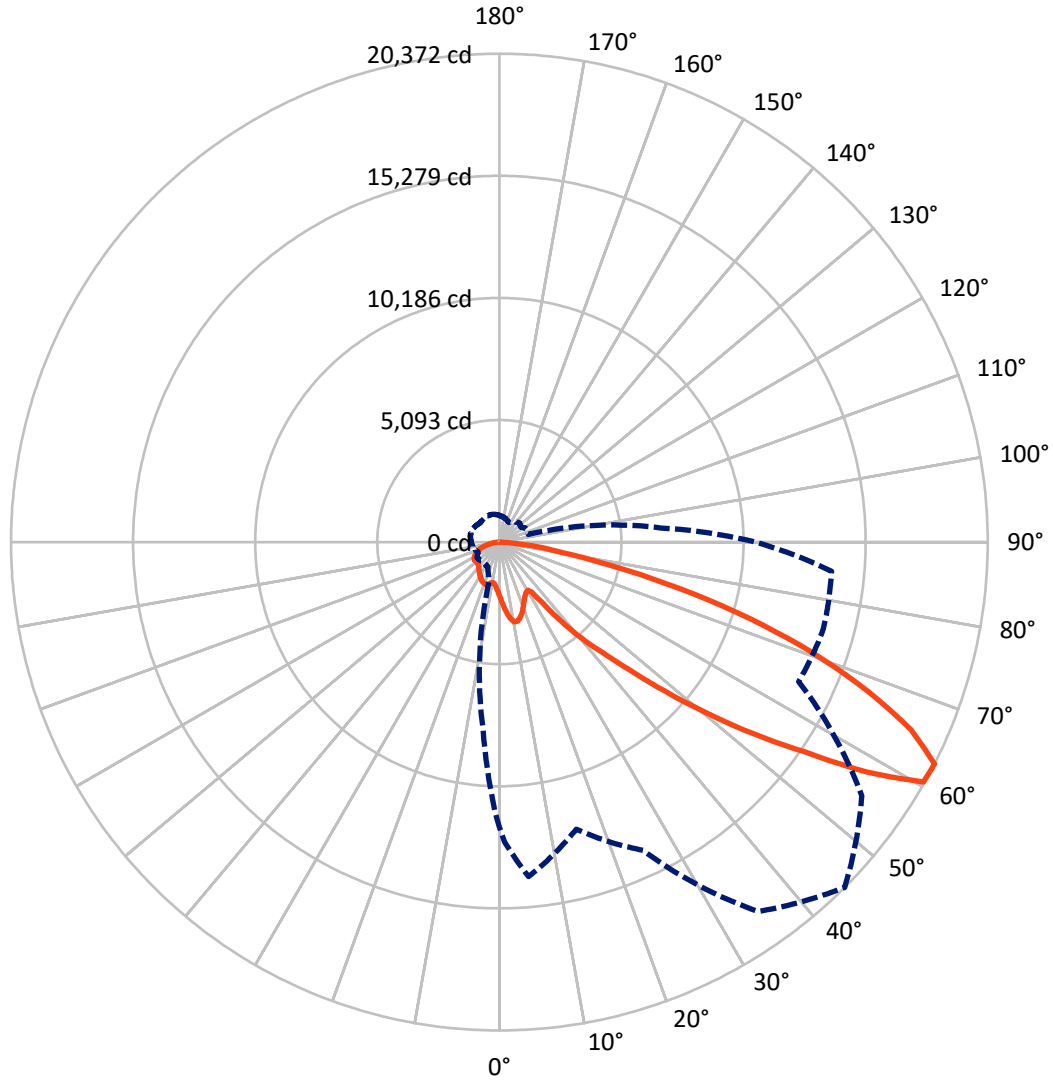
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4069.1	0.0	4069.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12983.7	0.0	12983.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	17052.8	0.0	17052.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	1.3
10°-20°	692.9	4.1
20°-30°	1076.3	6.3
30°-40°	1461.3	8.6
40°-50°	2316.0	13.6
50°-60°	4085.4	24.0
60°-70°	4545.6	26.7
70°-80°	2305.3	13.5
80°-90°	349.1	2.0
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°	17052.8	100.0
0°-180°	17052.8	100.0

Coefficient of Utilization



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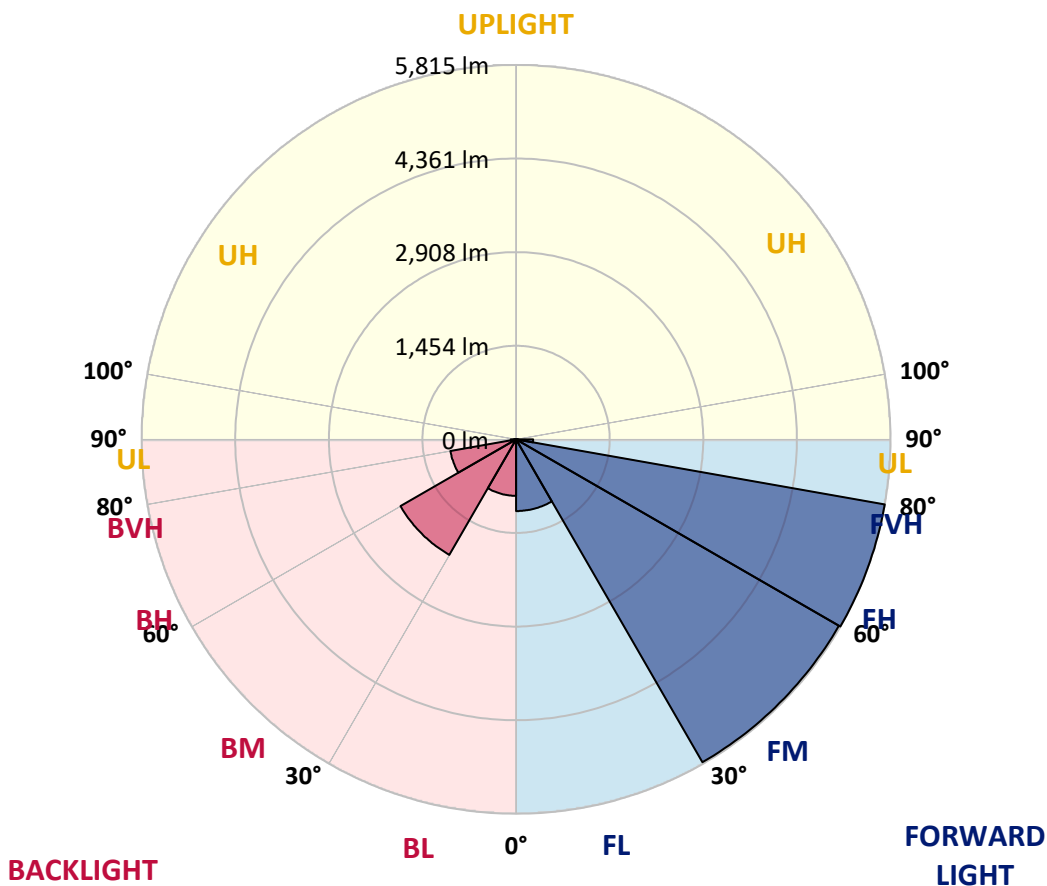
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.4	6.5			
FM (30°-60°)	5790.2	34.0			
FH (60°-80°)	5815.2	34.1			G3/7500
FVH (80°-90°)	265.0	1.6			G3/500
BL (0°-30°)	876.8	5.1	B2/1000		
BM (30°-60°)	2072.4	12.2	B2/2500		
BH (60°-80°)	1035.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	84.1	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2432.4	2431.1	2455.6	2493.1	2527.9	2543.4	2569.2	2566.7	2546.0	2518.9	2509.9
5°	2623.5	2628.6	2671.2	2753.9	2845.5	2884.3	2901.0	2894.6	2857.1	2809.4	2725.5
7.5°	2796.5	2805.5	2871.4	2995.3	3108.9	3160.6	3201.9	3194.1	3139.9	3050.8	2926.9
10°	2923.0	2933.3	3012.1	3158.0	3284.5	3329.7	3382.6	3385.2	3337.4	3217.4	3090.8
12.5°	3049.5	3059.8	3133.4	3266.4	3349.0	3350.3	3381.3	3398.1	3400.7	3345.2	3218.7
15°	3181.2	3190.2	3257.4	3332.3	3328.4	3256.1	3256.1	3288.4	3359.4	3399.4	3311.6
17.5°	3293.5	3305.2	3356.8	3332.3	3217.4	3087.0	3071.5	3112.8	3236.7	3390.4	3381.3
20°	3386.5	3395.5	3423.9	3261.3	3052.1	2881.7	2852.0	2899.8	3067.6	3334.8	3434.3
22.5°	3475.6	3480.7	3465.2	3168.3	2873.9	2679.0	2642.8	2693.2	2873.9	3236.7	3479.4
25°	3581.4	3576.3	3502.7	3071.5	2711.3	2518.9	2481.4	2538.3	2726.8	3106.3	3528.5
27.5°	3704.1	3684.7	3535.0	2966.9	2586.0	2400.1	2374.3	2435.0	2610.6	2986.3	3567.2
30°	3808.7	3771.2	3540.1	2873.9	2521.5	2349.8	2334.3	2391.1	2553.7	2904.9	3616.3
32.5°	3924.9	3873.2	3569.8	2849.4	2557.6	2471.1	2491.8	2495.6	2569.2	2881.7	3689.9
35°	4091.4	4024.3	3651.2	2920.4	2929.4	3075.3	3150.2	3049.5	2802.9	2933.3	3829.3
37.5°	4343.2	4258.0	3816.4	3227.7	3697.6	4024.3	4205.0	3975.2	3513.0	3128.3	4039.8
40°	4649.2	4540.7	4028.2	3795.8	4415.5	4938.4	5259.8	4922.9	4243.8	3615.0	4335.4
42.5°	5076.5	4962.9	4438.7	4353.5	5080.4	5858.9	6278.5	5776.3	4888.0	4243.8	4809.3
45°	5821.5	5711.7	5191.4	4912.5	5858.9	6992.5	7581.2	6882.7	5542.6	4875.1	5694.9
47.5°	7197.7	7068.6	6309.5	5532.3	6747.2	8464.3	9288.0	8270.6	6223.0	5598.1	7182.3
50°	8850.3	8726.4	7712.9	6265.6	7728.4	10038.1	11183.3	9901.3	7006.7	6477.3	8960.1
52.5°	10838.6	10815.3	9715.3	7192.6	8749.6	11716.5	13286.5	11707.5	7865.2	7661.2	10974.1
55°	12630.6	12857.8	12258.8	8606.3	10069.1	13824.8	15449.0	13677.7	9029.8	9618.5	13332.9
57.5°	13596.3	14207.0	15127.5	11490.6	11987.6	16345.0	18117.7	16082.9	11030.9	12877.2	15520.0
60°	12958.5	13650.5	15318.6	13662.2	13890.7	18364.3	20320.2	18104.7	12996.0	15139.1	15396.1
62.5°	11897.3	12518.3	14001.7	12394.3	14185.0	18808.4	20371.9	18457.2	13777.1	13991.4	13907.5
65°	10638.5	11264.6	12835.9	10819.2	13249.0	17753.6	18869.1	17420.5	12373.7	12640.9	12671.9
67.5°	8966.5	9544.9	11144.6	9619.8	12076.7	16205.6	16561.9	15943.5	11395.0	11821.1	11375.7
70°	6699.4	7221.0	8633.4	7817.5	10180.1	14188.9	13901.0	13992.7	10296.3	10719.8	9502.3
72.5°	4578.2	4970.6	6181.7	6142.9	7795.5	11358.9	10957.4	11826.2	8599.9	9161.5	7244.2
75°	3201.9	3507.9	4468.4	4853.2	5892.5	8419.1	7803.3	8851.6	6716.2	7517.9	5285.7
77.5°	1965.0	2167.7	2822.3	3595.6	3790.6	5762.1	4846.7	6660.7	4716.3	5483.2	3525.9
80°	982.5	1080.6	1371.1	2260.7	2513.7	3395.5	2676.4	3866.8	3191.5	3395.5	1950.8
82.5°	296.9	327.9	401.5	858.6	1302.7	1954.7	1581.6	2246.5	1743.0	1591.9	768.2
85°	78.8	89.1	111.0	254.3	457.0	701.1	534.5	1088.4	835.3	587.4	289.2
87.5°	6.5	6.5	5.2	5.2	2.6	0.0	0.0	77.5	156.2	89.1	50.4
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°	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2464.7	2459.5	2406.6	2367.8	2322.6	2278.7	2233.6	2193.5	2148.3	2103.2	2090.3
5°	2663.5	2627.3	2515.0	2420.8	2327.8	2246.5	2175.5	2101.9	2042.5	1984.4	1962.4
7.5°	2839.1	2775.8	2613.1	2469.8	2340.7	2240.0	2135.4	2028.3	1944.4	1861.7	1841.1
10°	2997.9	2914.0	2708.7	2527.9	2384.6	2269.7	2147.1	2003.7	1882.4	1781.7	1754.6
12.5°	3115.4	3023.7	2791.3	2583.4	2420.8	2291.7	2170.3	2043.8	1916.0	1785.6	1755.9
15°	3208.3	3112.8	2859.7	2626.0	2422.1	2255.5	2138.0	2094.1	2054.1	1926.3	1872.1
17.5°	3283.2	3182.5	2919.1	2651.9	2387.2	2145.8	2043.8	2108.3	2210.3	2130.3	2028.3
20°	3351.6	3249.6	2964.3	2669.9	2309.7	1994.7	1937.9	2074.8	2228.4	2225.8	2134.1
22.5°	3426.5	3327.1	3030.2	2680.3	2201.3	1841.1	1874.6	2025.7	2150.9	2188.4	2131.6
25°	3522.1	3434.3	3121.8	2703.5	2078.6	1735.2	1828.2	1962.4	2067.0	2076.0	2042.5
27.5°	3633.1	3567.2	3258.7	2757.7	1959.9	1681.0	1773.9	1873.4	1968.9	1972.8	1932.7
30°	3754.4	3710.6	3385.2	2802.9	1870.8	1664.2	1704.2	1784.3	1844.9	1855.3	1820.4
32.5°	3909.4	3870.6	3497.5	2773.2	1817.8	1660.3	1639.7	1681.0	1731.3	1731.3	1704.2
35°	4122.4	4068.2	3616.3	2659.6	1753.3	1644.8	1571.2	1582.9	1604.8	1608.7	1593.2
37.5°	4424.5	4335.4	3736.4	2435.0	1647.4	1589.3	1492.5	1478.3	1486.0	1496.4	1492.5
40°	4798.9	4653.0	3912.0	2165.1	1520.9	1482.2	1411.1	1384.0	1377.6	1398.2	1406.0
42.5°	5270.2	5046.8	4100.5	1913.4	1406.0	1359.5	1315.6	1292.4	1282.0	1316.9	1337.6
45°	6022.9	5654.9	4281.2	1664.2	1341.4	1254.9	1225.2	1208.4	1213.6	1254.9	1280.7
47.5°	7323.0	6583.2	4452.9	1506.7	1336.3	1180.0	1143.9	1147.8	1162.0	1205.9	1236.9
50°	8967.8	7826.5	4567.8	1440.8	1351.8	1134.9	1087.1	1107.7	1129.7	1172.3	1208.4
52.5°	10642.3	8984.6	4431.0	1404.7	1350.5	1136.1	1034.2	1096.1	1106.5	1149.1	1187.8
55°	11794.0	9113.7	3828.0	1349.2	1329.8	1187.8	992.8	1091.0	1097.4	1136.1	1171.0
57.5°	12232.9	8672.2	2919.1	1364.7	1267.8	1227.8	974.8	1054.8	1101.3	1134.9	1171.0
60°	11702.3	7839.4	1773.9	1404.7	1168.4	1225.2	986.4	989.0	1069.0	1125.8	1162.0
62.5°	10701.7	6770.4	1245.9	1291.1	1096.1	1156.8	1013.5	911.5	1012.2	1080.6	1112.9
65°	9555.2	5512.9	950.2	1111.6	1061.3	1050.9	1022.5	843.1	934.7	1001.9	1030.3
67.5°	8361.0	4285.1	772.1	828.9	959.3	950.2	934.7	782.4	843.1	890.8	923.1
70°	6856.9	2997.9	652.0	622.3	822.4	852.1	817.3	706.2	725.6	774.6	800.5
72.5°	5015.8	1868.2	535.8	513.8	661.0	745.0	726.9	622.3	631.3	677.8	698.5
75°	3607.3	1069.0	429.9	423.5	504.8	637.8	601.6	535.8	546.1	581.0	595.2
77.5°	2292.9	595.2	331.8	340.8	361.5	476.4	513.8	458.3	458.3	479.0	490.6
80°	1227.8	340.8	242.7	246.6	253.1	364.1	405.4	355.0	355.0	340.8	355.0
82.5°	500.9	196.2	166.5	154.9	169.1	249.2	284.0	225.9	236.3	213.0	218.2
85°	165.3	98.1	82.6	81.3	80.0	109.7	136.9	112.3	134.3	85.2	89.1
87.5°	21.9	18.1	10.3	7.7	9.0	3.9	7.7	9.0	9.0	6.5	6.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2081.2	2070.9	2033.4	2042.5	2036.0	2025.7	2036.0	2016.7	2032.2	2037.3	2069.6
5°	1945.7	1921.1	1885.0	1866.9	1863.0	1852.7	1854.0	1844.9	1847.5	1869.5	1905.6
7.5°	1824.3	1801.0	1772.6	1759.7	1748.1	1736.5	1735.2	1733.9	1744.2	1763.6	1798.5
10°	1736.5	1723.6	1712.0	1717.1	1712.0	1706.8	1697.8	1697.8	1714.5	1749.4	1792.0
12.5°	1736.5	1733.9	1736.5	1752.0	1750.7	1752.0	1740.4	1746.8	1793.3	1852.7	1913.4
15°	1829.5	1808.8	1808.8	1816.5	1814.0	1814.0	1814.0	1841.1	1946.9	2038.6	2103.2
17.5°	1943.1	1882.4	1856.6	1852.7	1851.4	1851.4	1856.6	1914.7	2079.9	2176.8	2214.2
20°	2021.8	1906.9	1864.3	1847.5	1848.8	1851.4	1866.9	1946.9	2129.0	2178.0	2169.0
22.5°	2036.0	1887.6	1835.9	1811.4	1815.3	1817.8	1841.1	1926.3	2061.8	2069.6	2051.5
25°	1970.2	1833.3	1777.8	1758.4	1763.6	1762.3	1783.0	1844.9	1941.8	1939.2	1928.9
27.5°	1872.1	1746.8	1705.5	1692.6	1701.6	1691.3	1697.8	1745.5	1820.4	1817.8	1814.0
30°	1771.4	1662.9	1625.5	1619.0	1630.6	1615.1	1616.4	1656.4	1708.1	1705.5	1704.2
32.5°	1670.7	1579.0	1545.4	1545.4	1557.0	1540.3	1542.8	1577.7	1612.6	1602.2	1602.2
35°	1575.1	1510.6	1483.4	1478.3	1487.3	1475.7	1480.9	1513.1	1526.1	1511.8	1502.8
37.5°	1491.2	1462.8	1435.7	1417.6	1418.9	1420.2	1435.7	1460.2	1452.5	1431.8	1420.2
40°	1413.7	1413.7	1387.9	1354.3	1350.5	1359.5	1385.3	1412.4	1390.5	1367.2	1353.0
42.5°	1358.2	1369.8	1345.3	1311.7	1304.0	1319.5	1347.9	1367.2	1341.4	1315.6	1296.2
45°	1306.6	1335.0	1318.2	1280.7	1270.4	1288.5	1324.6	1332.4	1297.5	1273.0	1258.8
47.5°	1270.4	1309.2	1297.5	1261.4	1245.9	1271.7	1309.2	1307.9	1264.0	1238.1	1226.5
50°	1244.6	1293.7	1292.4	1261.4	1244.6	1276.9	1310.4	1293.7	1245.9	1218.8	1207.2
52.5°	1223.9	1292.4	1301.4	1283.3	1271.7	1300.1	1320.8	1288.5	1233.0	1204.6	1195.5
55°	1214.9	1297.5	1304.0	1287.2	1276.9	1302.7	1320.8	1298.8	1233.0	1207.2	1199.4
57.5°	1217.5	1291.1	1292.4	1269.1	1251.1	1283.3	1311.7	1305.3	1247.2	1217.5	1208.4
60°	1202.0	1256.2	1258.8	1222.6	1202.0	1240.7	1291.1	1287.2	1240.7	1209.7	1193.0
62.5°	1150.3	1198.1	1199.4	1165.8	1136.1	1191.7	1247.2	1245.9	1203.3	1172.3	1152.9
65°	1063.8	1114.2	1127.1	1094.8	1071.6	1131.0	1189.1	1186.5	1143.9	1115.5	1096.1
67.5°	956.7	1010.9	1035.4	1013.5	1004.5	1058.7	1112.9	1111.6	1076.8	1049.6	1032.9
70°	826.3	871.5	912.8	912.8	906.3	968.3	1026.4	1021.2	989.0	968.3	955.4
72.5°	717.8	752.7	765.6	778.5	797.9	862.4	911.5	915.4	892.1	881.8	892.1
75°	610.7	632.6	644.2	633.9	667.5	734.6	799.2	805.6	781.1	764.3	768.2
77.5°	502.2	526.8	538.4	515.1	512.6	597.8	676.5	690.7	670.1	644.2	652.0
80°	362.8	395.1	414.4	398.9	393.8	431.2	539.7	555.2	535.8	515.1	526.8
82.5°	222.1	240.1	245.3	260.8	293.1	308.6	347.3	398.9	384.7	366.7	398.9
85°	87.8	104.6	116.2	131.7	153.6	182.0	214.3	255.6	232.4	224.6	264.7
87.5°	5.2	1.3	0.0	2.6	21.9	42.6	91.7	126.5	105.9	113.6	136.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2095.4	2129.0	2174.2	2211.6	2259.4	2304.6	2351.0	2397.5	2422.1	2432.4
5°	1946.9	2008.9	2081.2	2161.3	2254.2	2352.3	2451.8	2553.7	2618.3	2623.5
7.5°	1857.9	1946.9	2046.4	2147.1	2262.0	2397.5	2555.0	2712.5	2778.4	2796.5
10°	1886.3	1985.7	2064.4	2158.7	2285.2	2454.3	2640.2	2824.9	2901.0	2923.0
12.5°	1999.9	2019.2	2043.8	2130.3	2285.2	2503.4	2728.0	2947.5	3028.9	3049.5
15°	2094.1	2001.2	1957.3	2048.9	2254.2	2546.0	2821.0	3063.7	3161.8	3181.2
17.5°	2101.9	1941.8	1846.2	1928.9	2200.0	2575.7	2910.1	3192.8	3275.5	3293.5
20°	2023.1	1878.5	1754.6	1804.9	2126.4	2588.6	2974.6	3287.1	3368.4	3386.5
22.5°	1934.0	1826.9	1692.6	1690.0	2037.3	2602.8	3052.1	3376.2	3464.0	3475.6
25°	1850.1	1755.9	1642.2	1606.1	1934.0	2629.9	3156.7	3510.4	3577.6	3581.4
27.5°	1752.0	1679.7	1602.2	1567.4	1843.7	2681.6	3311.6	3670.5	3710.6	3704.1
30°	1662.9	1608.7	1573.8	1563.5	1786.8	2720.3	3458.8	3828.0	3830.6	3808.7
32.5°	1568.7	1548.0	1548.0	1581.6	1740.4	2711.3	3578.9	3981.7	3957.1	3924.9
35°	1484.7	1488.6	1515.7	1594.5	1662.9	2620.9	3693.8	4174.0	4137.9	4091.4
37.5°	1404.7	1434.4	1473.1	1549.3	1560.9	2486.6	3828.0	4446.5	4401.3	4343.2
40°	1336.3	1381.5	1426.6	1464.1	1452.5	2295.5	4015.2	4766.6	4716.3	4649.2
42.5°	1282.0	1325.9	1376.3	1380.2	1384.0	2096.7	4214.1	5159.1	5150.1	5076.5
45°	1247.2	1275.6	1323.4	1316.9	1380.2	1877.2	4397.4	5758.2	5877.0	5821.5
47.5°	1223.9	1245.9	1251.1	1278.2	1413.7	1681.0	4633.7	6930.5	7261.0	7197.7
50°	1211.0	1233.0	1174.9	1280.7	1418.9	1554.5	4960.3	8402.3	8934.2	8850.3
52.5°	1209.7	1204.6	1116.8	1307.9	1390.5	1477.0	5130.7	9476.5	10656.5	10838.6
55°	1212.3	1147.8	1087.1	1315.6	1333.7	1448.6	4560.1	9992.9	12245.8	12630.6
57.5°	1189.1	1085.8	1103.9	1284.6	1226.5	1524.8	3371.0	9808.3	12881.1	13596.3
60°	1145.2	1026.4	1134.9	1200.7	1116.8	1394.4	2321.4	8984.6	12222.6	12958.5
62.5°	1081.9	985.1	1131.0	1092.2	1076.8	1141.3	1595.8	7831.7	11178.1	11897.3
65°	1010.9	951.5	1070.3	987.7	996.7	877.9	1128.4	6530.3	9931.0	10638.5
67.5°	934.7	930.9	981.2	879.2	841.8	695.9	822.4	5234.0	8328.7	8966.5
70°	848.2	876.6	892.1	781.1	683.0	546.1	610.7	3660.2	6144.2	6699.4
72.5°	761.7	764.3	786.3	679.1	511.3	437.7	458.3	2216.8	4174.0	4578.2
75°	673.9	649.4	670.1	552.6	380.9	358.9	353.8	1369.8	2883.0	3201.9
77.5°	579.7	552.6	525.5	415.7	306.0	277.6	271.1	768.2	1768.8	1965.0
80°	471.2	435.1	392.5	304.7	223.4	198.8	197.5	374.4	881.8	982.5
82.5°	366.7	298.2	286.6	189.8	138.1	121.4	129.1	143.3	266.0	296.9
85°	256.9	216.9	152.3	76.2	62.0	50.4	49.1	42.6	71.0	78.8
87.5°	143.3	94.2	49.1	9.0	10.3	11.6	9.0	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)