

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: P637386

Luminaire Tested: GWS-SA4C-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637386
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-SA4C-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18543.3 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

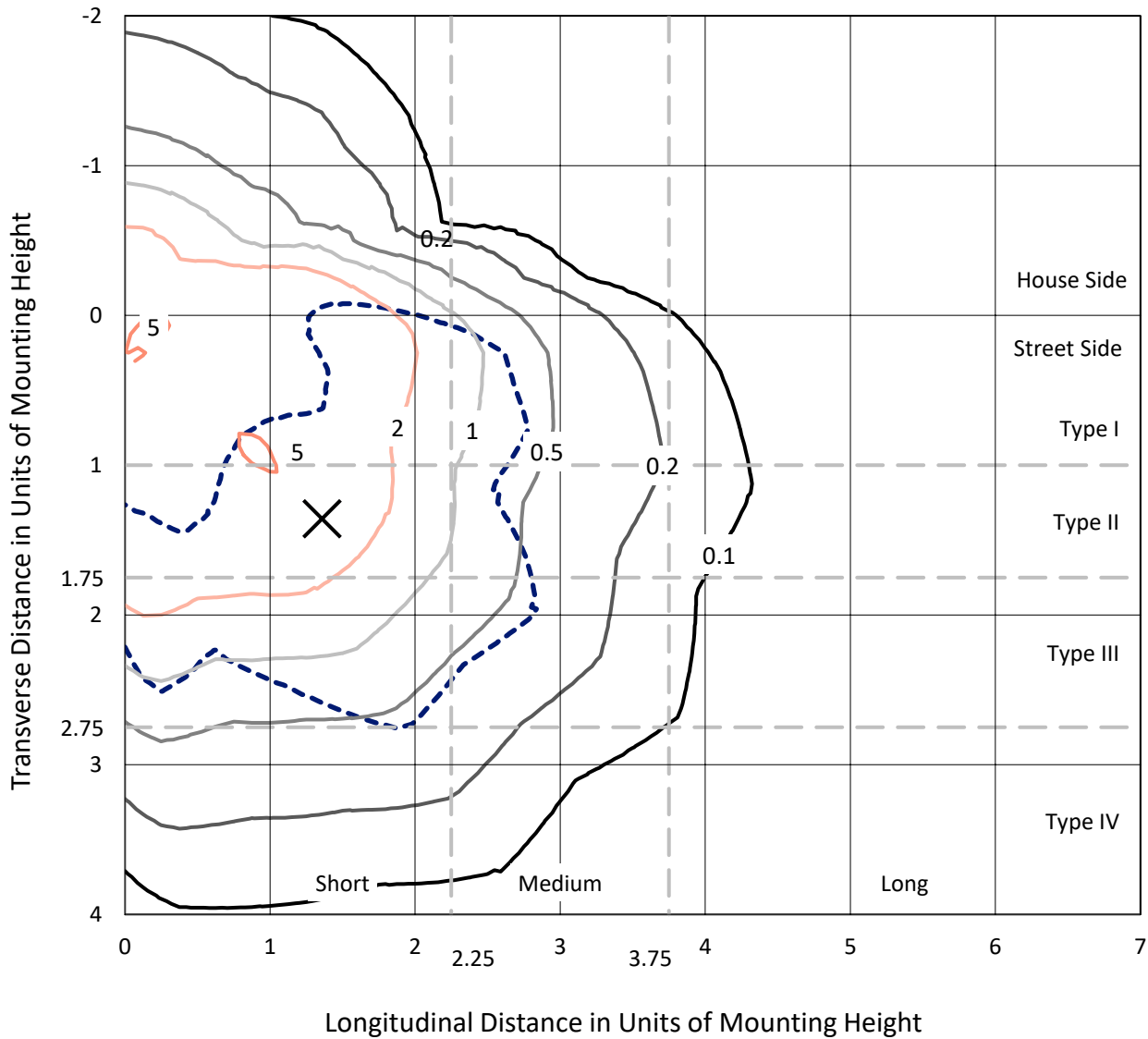
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

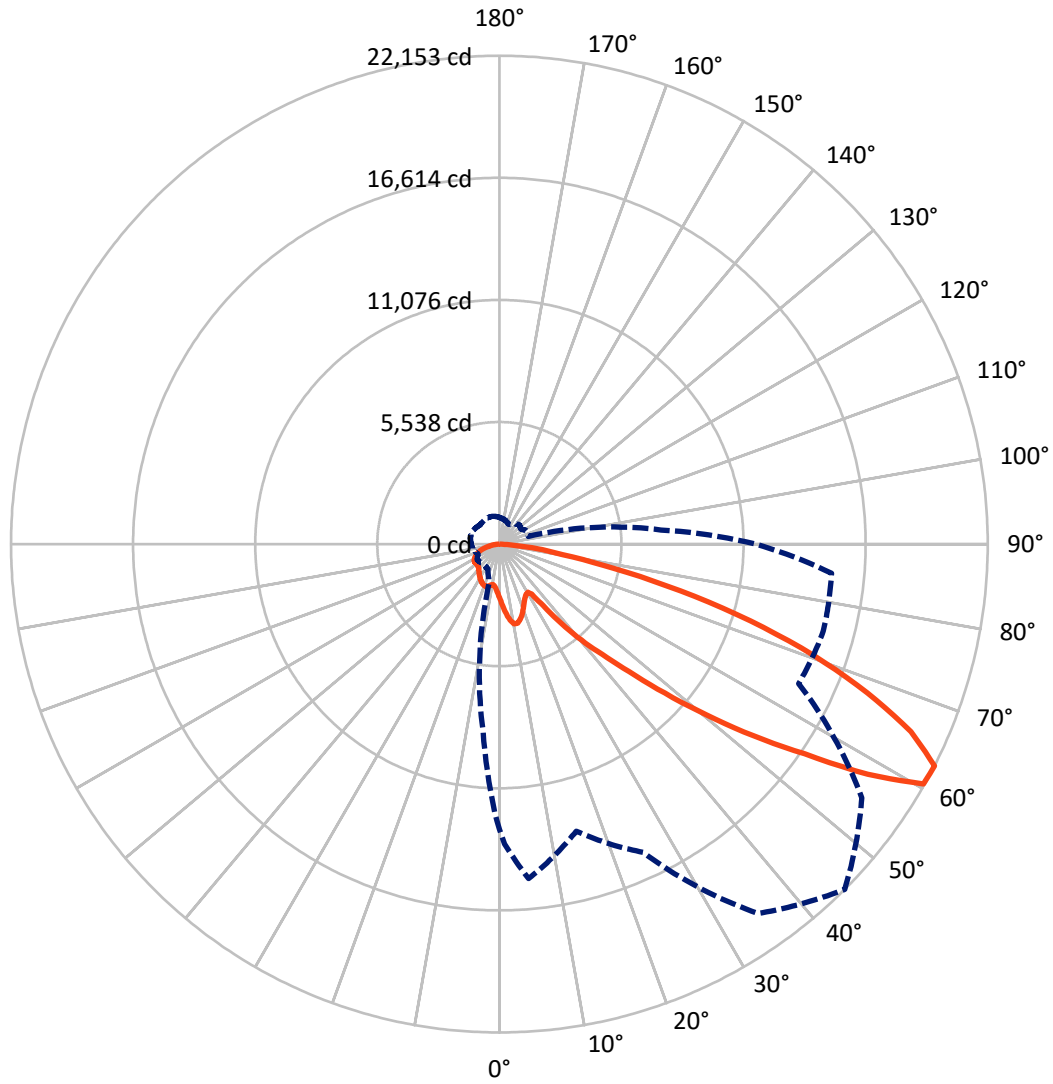
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	4424.8	0.0	4424.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	14118.5	0.0	14118.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	18543.3	0.0	18543.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.3
10°-20°	753.5	4.1
20°-30°	1170.3	6.3
30°-40°	1589.0	8.6
40°-50°	2518.4	13.6
50°-60°	4442.4	24.0
60°-70°	4942.9	26.7
70°-80°	2506.8	13.5
80°-90°	379.6	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°	18543.3	100.0
0°-180°	18543.3	100.0

Coefficient of Utilization



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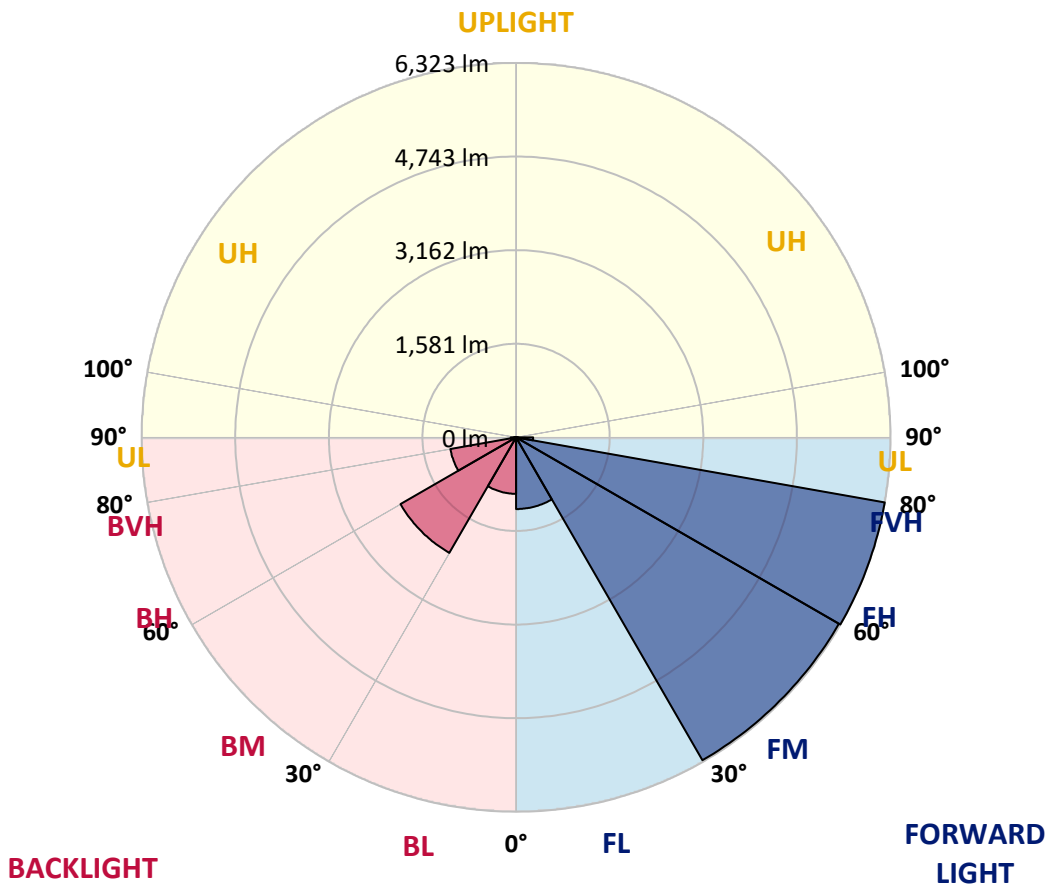
CATALOG NUMBER: GWS-SA4C-760-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.7	6.5			
FM (30°-60°)	6296.3	34.0			
FH (60°-80°)	6323.4	34.1			G3/7500
FVH (80°-90°)	288.1	1.6			G3/500
BL (0°-30°)	953.4	5.1	B2/1000		
BM (30°-60°)	2253.6	12.2	B2/2500		
BH (60°-80°)	1126.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	91.5	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°	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1
2.5°	2645.0	2643.6	2670.3	2711.0	2748.9	2765.7	2793.8	2791.0	2768.5	2739.1	2729.2
5°	2852.8	2858.4	2904.7	2994.6	3094.2	3136.4	3154.6	3147.6	3106.9	3054.9	2963.7
7.5°	3040.9	3050.7	3122.3	3257.1	3380.6	3436.8	3481.7	3473.3	3414.3	3317.5	3182.7
10°	3178.5	3189.7	3275.3	3434.0	3571.6	3620.7	3678.3	3681.1	3629.1	3498.6	3361.0
12.5°	3316.1	3327.3	3407.3	3551.9	3641.8	3643.2	3676.9	3695.1	3697.9	3637.6	3500.0
15°	3459.3	3469.1	3542.1	3623.5	3619.3	3540.7	3540.7	3575.8	3653.0	3696.5	3601.1
17.5°	3581.4	3594.0	3650.2	3623.5	3498.6	3356.8	3339.9	3384.9	3519.6	3686.7	3676.9
20°	3682.5	3692.3	3723.2	3546.3	3318.9	3133.6	3101.3	3153.2	3335.7	3626.3	3734.4
22.5°	3779.4	3785.0	3768.1	3445.2	3125.1	2913.1	2873.8	2928.6	3125.1	3519.6	3783.6
25°	3894.5	3888.9	3808.8	3339.9	2948.2	2739.1	2698.3	2760.1	2965.1	3377.8	3836.9
27.5°	4027.9	4006.8	3843.9	3226.2	2812.1	2609.9	2581.8	2647.8	2838.7	3247.3	3879.0
30°	4141.6	4100.9	3849.6	3125.1	2741.9	2555.1	2538.3	2600.1	2777.0	3158.8	3932.4
32.5°	4267.9	4211.8	3881.8	3098.5	2781.2	2687.1	2709.6	2713.8	2793.8	3133.6	4012.4
35°	4449.0	4376.0	3970.3	3175.7	3185.5	3344.1	3425.6	3316.1	3047.9	3189.7	4164.0
37.5°	4722.8	4630.1	4150.0	3509.8	4020.8	4376.0	4572.6	4322.7	3820.1	3401.7	4392.9
40°	5055.5	4937.6	4380.2	4127.5	4801.4	5370.0	5719.6	5353.2	4614.7	3931.0	4714.4
42.5°	5520.2	5396.7	4826.7	4734.0	5524.4	6371.0	6827.3	6281.1	5315.2	4614.7	5229.6
45°	6330.3	6210.9	5645.2	5341.9	6371.0	7603.6	8243.8	7484.3	6027.0	5301.2	6192.7
47.5°	7826.9	7686.5	6861.0	6015.8	7336.9	9204.1	10099.8	8993.5	6766.9	6087.4	7810.0
50°	9623.9	9489.1	8387.0	6813.2	8403.9	10915.5	12160.8	10766.7	7619.1	7043.5	9743.2
52.5°	11785.9	11760.7	10564.5	7821.2	9514.4	12740.6	14447.8	12730.8	8552.7	8330.9	11933.3
55°	13734.6	13981.7	13330.2	9358.5	10949.2	15033.2	16799.3	14873.1	9819.0	10459.2	14498.3
57.5°	14784.7	15448.8	16449.7	12494.9	13035.4	17773.6	19701.2	17488.7	11995.1	14002.7	16876.5
60°	14091.2	14843.7	16657.5	14856.3	15104.8	19969.4	22096.3	19687.2	14131.9	16462.4	16741.8
62.5°	12937.1	13612.4	15225.5	13477.6	15424.9	20452.3	22152.5	20070.5	14981.2	15214.3	15123.0
65°	11568.3	12249.2	13957.8	11764.9	14407.0	19305.3	20518.3	18943.1	13455.2	13745.8	13779.5
67.5°	9750.2	10379.2	12118.7	10460.6	13132.3	17622.0	18009.5	17337.0	12391.0	12854.3	12370.0
70°	7284.9	7852.1	9388.0	8500.7	11069.9	15429.1	15116.0	15215.7	11196.3	11656.8	10332.9
72.5°	4978.3	5405.1	6722.0	6679.9	8476.9	12351.7	11915.1	12859.9	9351.5	9962.2	7877.4
75°	3481.7	3814.5	4859.0	5277.3	6407.5	9155.0	8485.3	9625.3	7303.2	8175.0	5747.7
77.5°	2136.8	2357.2	3069.0	3909.9	4121.9	6265.7	5270.3	7242.8	5128.5	5962.5	3834.1
80°	1068.4	1175.1	1491.0	2458.3	2733.4	3692.3	2910.3	4204.7	3470.5	3692.3	2121.3
82.5°	322.9	356.6	436.6	933.6	1416.6	2125.5	1719.8	2442.8	1895.3	1731.0	835.3
85°	85.6	96.9	120.7	276.6	497.0	762.3	581.2	1183.5	908.3	638.8	314.5
87.5°	7.0	7.0	5.6	5.6	2.8	0.0	0.0	84.2	169.9	96.9	54.8
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°	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1
2.5°	2680.1	2674.5	2616.9	2574.8	2525.7	2477.9	2428.8	2385.3	2336.1	2287.0	2272.9
5°	2896.3	2857.0	2734.8	2632.4	2531.3	2442.8	2365.6	2285.6	2221.0	2157.8	2134.0
7.5°	3087.2	3018.4	2841.5	2685.7	2545.3	2435.8	2322.1	2205.6	2114.3	2024.5	2002.0
10°	3259.9	3168.7	2945.4	2748.9	2593.0	2468.1	2334.7	2178.9	2046.9	1937.4	1907.9
12.5°	3387.7	3288.0	3035.3	2809.2	2632.4	2492.0	2360.0	2222.4	2083.4	1941.6	1909.3
15°	3488.7	3384.9	3109.7	2855.6	2633.8	2452.7	2324.9	2277.2	2233.6	2094.7	2035.7
17.5°	3570.2	3460.7	3174.3	2883.7	2595.9	2333.3	2222.4	2292.6	2403.5	2316.5	2205.6
20°	3644.6	3533.7	3223.4	2903.3	2511.6	2169.1	2107.3	2256.1	2423.2	2420.4	2320.7
22.5°	3726.0	3617.9	3295.0	2914.5	2393.7	2002.0	2038.5	2202.8	2338.9	2379.6	2317.9
25°	3829.9	3734.4	3394.7	2939.8	2260.3	1886.9	1988.0	2134.0	2247.7	2257.5	2221.0
27.5°	3950.6	3879.0	3543.5	2998.8	2131.2	1827.9	1929.0	2037.1	2141.0	2145.2	2101.7
30°	4082.6	4034.9	3681.1	3047.9	2034.3	1809.7	1853.2	1940.2	2006.2	2017.4	1979.5
32.5°	4251.1	4209.0	3803.2	3015.6	1976.7	1805.4	1783.0	1827.9	1882.7	1882.7	1853.2
35°	4482.7	4423.8	3932.4	2892.1	1906.5	1788.6	1708.6	1721.2	1745.1	1749.3	1732.4
37.5°	4811.2	4714.4	4062.9	2647.8	1791.4	1728.2	1622.9	1607.5	1615.9	1627.1	1622.9
40°	5218.4	5059.7	4253.9	2354.4	1653.8	1611.7	1534.5	1505.0	1498.0	1520.4	1528.9
42.5°	5730.8	5487.9	4458.9	2080.6	1528.9	1478.3	1430.6	1405.3	1394.1	1432.0	1454.5
45°	6549.3	6149.2	4655.4	1809.7	1458.7	1364.6	1332.3	1314.1	1319.7	1364.6	1392.7
47.5°	7963.0	7158.6	4842.1	1638.4	1453.1	1283.2	1243.9	1248.1	1263.5	1311.3	1345.0
50°	9751.6	8510.6	4967.1	1566.8	1469.9	1234.0	1182.1	1204.6	1228.4	1274.8	1314.1
52.5°	11572.5	9769.9	4818.3	1527.5	1468.5	1235.5	1124.5	1191.9	1203.2	1249.5	1291.6
55°	12824.8	9910.3	4162.6	1467.1	1446.0	1291.6	1079.6	1186.3	1193.3	1235.5	1273.4
57.5°	13302.2	9430.1	3174.3	1483.9	1378.7	1335.1	1060.0	1147.0	1197.5	1234.0	1273.4
60°	12725.1	8524.6	1929.0	1527.5	1270.5	1332.3	1072.6	1075.4	1162.4	1224.2	1263.5
62.5°	11637.1	7362.2	1354.8	1403.9	1191.9	1257.9	1102.1	991.2	1100.7	1175.1	1210.2
65°	10390.4	5994.7	1033.3	1208.8	1154.0	1142.8	1111.9	916.8	1016.4	1089.4	1120.3
67.5°	9091.8	4659.6	839.5	901.3	1043.1	1033.3	1016.4	850.8	916.8	968.7	1003.8
70°	7456.2	3259.9	709.0	676.7	894.3	926.6	888.7	767.9	789.0	842.4	870.4
72.5°	5454.2	2031.5	582.6	558.8	718.8	810.1	790.4	676.7	686.5	737.1	759.5
75°	3922.6	1162.4	467.5	460.5	548.9	693.5	654.2	582.6	593.9	631.8	647.2
77.5°	2493.4	647.2	360.8	370.6	393.1	518.0	558.8	498.4	498.4	520.9	533.5
80°	1335.1	370.6	263.9	268.1	275.2	395.9	440.8	386.1	386.1	370.6	386.1
82.5°	544.7	213.4	181.1	168.5	183.9	271.0	308.9	245.7	256.9	231.6	237.3
85°	179.7	106.7	89.9	88.4	87.0	119.3	148.8	122.1	146.0	92.7	96.9
87.5°	23.9	19.7	11.2	8.4	9.8	4.2	8.4	9.8	9.8	7.0	7.0
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°	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1
2.5°	2263.1	2251.9	2211.2	2221.0	2214.0	2202.8	2214.0	2192.9	2209.8	2215.4	2250.5
5°	2115.7	2089.0	2049.7	2030.1	2025.9	2014.6	2016.0	2006.2	2009.0	2032.9	2072.2
7.5°	1983.7	1958.5	1927.6	1913.5	1900.9	1888.3	1886.9	1885.5	1896.7	1917.8	1955.7
10°	1888.3	1874.2	1861.6	1867.2	1861.6	1856.0	1846.2	1846.2	1864.4	1902.3	1948.6
12.5°	1888.3	1885.5	1888.3	1905.1	1903.7	1905.1	1892.5	1899.5	1950.0	2014.6	2080.6
15°	1989.4	1966.9	1966.9	1975.3	1972.5	1972.5	1972.5	2002.0	2117.1	2216.8	2287.0
17.5°	2112.9	2046.9	2018.8	2014.6	2013.2	2013.2	2018.8	2082.0	2261.7	2367.0	2407.7
20°	2198.5	2073.6	2027.3	2009.0	2010.4	2013.2	2030.1	2117.1	2315.1	2368.4	2358.6
22.5°	2214.0	2052.5	1996.4	1969.7	1973.9	1976.7	2002.0	2094.7	2242.1	2250.5	2230.8
25°	2142.4	1993.6	1933.2	1912.1	1917.8	1916.4	1938.8	2006.2	2111.5	2108.7	2097.5
27.5°	2035.7	1899.5	1854.6	1840.5	1850.4	1839.1	1846.2	1898.1	1979.5	1976.7	1972.5
30°	1926.2	1808.3	1767.5	1760.5	1773.2	1756.3	1757.7	1801.2	1857.4	1854.6	1853.2
32.5°	1816.7	1717.0	1680.5	1680.5	1693.1	1674.9	1677.7	1715.6	1753.5	1742.3	1742.3
35°	1712.8	1642.6	1613.1	1607.5	1617.3	1604.7	1610.3	1645.4	1659.4	1644.0	1634.2
37.5°	1621.5	1590.6	1561.2	1541.5	1542.9	1544.3	1561.2	1587.8	1579.4	1556.9	1544.3
40°	1537.3	1537.3	1509.2	1472.7	1468.5	1478.3	1506.4	1535.9	1512.0	1486.8	1471.3
42.5°	1476.9	1489.6	1462.9	1426.4	1418.0	1434.8	1465.7	1486.8	1458.7	1430.6	1409.5
45°	1420.8	1451.7	1433.4	1392.7	1381.5	1401.1	1440.4	1448.8	1410.9	1384.3	1368.8
47.5°	1381.5	1423.6	1410.9	1371.6	1354.8	1382.9	1423.6	1422.2	1374.4	1346.4	1333.7
50°	1353.4	1406.7	1405.3	1371.6	1353.4	1388.5	1425.0	1406.7	1354.8	1325.3	1312.7
52.5°	1330.9	1405.3	1415.2	1395.5	1382.9	1413.7	1436.2	1401.1	1340.7	1309.9	1300.0
55°	1321.1	1410.9	1418.0	1399.7	1388.5	1416.6	1436.2	1412.3	1340.7	1312.7	1304.2
57.5°	1323.9	1403.9	1405.3	1380.1	1360.4	1395.5	1426.4	1419.4	1356.2	1323.9	1314.1
60°	1307.1	1366.0	1368.8	1329.5	1307.1	1349.2	1403.9	1399.7	1349.2	1315.5	1297.2
62.5°	1250.9	1302.8	1304.2	1267.7	1235.5	1295.8	1356.2	1354.8	1308.5	1274.8	1253.7
65°	1156.8	1211.6	1225.6	1190.5	1165.3	1229.8	1293.0	1290.2	1243.9	1213.0	1191.9
67.5°	1040.3	1099.3	1125.9	1102.1	1092.3	1151.2	1210.2	1208.8	1170.9	1141.4	1123.1
70°	898.5	947.6	992.6	992.6	985.6	1052.9	1116.1	1110.5	1075.4	1052.9	1038.9
72.5°	780.6	818.5	832.5	846.6	867.6	937.8	991.2	995.4	970.1	958.9	970.1
75°	664.1	687.9	700.6	689.3	725.8	798.8	869.0	876.0	849.4	831.1	835.3
77.5°	546.1	572.8	585.4	560.2	557.4	650.0	735.7	751.1	728.6	700.6	709.0
80°	394.5	429.6	450.7	433.8	428.2	468.9	586.8	603.7	582.6	560.2	572.8
82.5°	241.5	261.1	266.7	283.6	318.7	335.5	377.7	433.8	418.4	398.7	433.8
85°	95.5	113.7	126.4	143.2	167.1	198.0	233.1	278.0	252.7	244.3	287.8
87.5°	5.6	1.4	0.0	2.8	23.9	46.3	99.7	137.6	115.1	123.5	148.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1	2461.1
2.5°	2278.6	2315.1	2364.2	2404.9	2456.9	2506.0	2556.5	2607.1	2633.8	2645.0
5°	2117.1	2184.5	2263.1	2350.2	2451.2	2557.9	2666.0	2777.0	2847.2	2852.8
7.5°	2020.2	2117.1	2225.2	2334.7	2459.7	2607.1	2778.4	2949.6	3021.2	3040.9
10°	2051.1	2159.2	2244.9	2347.4	2484.9	2668.9	2871.0	3071.8	3154.6	3178.5
12.5°	2174.7	2195.7	2222.4	2316.5	2484.9	2722.2	2966.5	3205.2	3293.6	3316.1
15°	2277.2	2176.1	2128.3	2228.0	2451.2	2768.5	3067.6	3331.5	3438.2	3459.3
17.5°	2285.6	2111.5	2007.6	2097.5	2392.3	2800.8	3164.4	3471.9	3561.7	3581.4
20°	2199.9	2042.7	1907.9	1962.7	2312.3	2814.9	3234.6	3574.4	3662.8	3682.5
22.5°	2103.1	1986.5	1840.5	1837.7	2215.4	2830.3	3318.9	3671.3	3766.7	3779.4
25°	2011.8	1909.3	1785.8	1746.5	2103.1	2859.8	3432.6	3817.3	3890.3	3894.5
27.5°	1905.1	1826.5	1742.3	1704.4	2004.8	2915.9	3601.1	3991.3	4034.9	4027.9
30°	1808.3	1749.3	1711.4	1700.1	1943.0	2958.1	3761.1	4162.6	4165.4	4141.6
32.5°	1705.8	1683.3	1683.3	1719.8	1892.5	2948.2	3891.7	4329.7	4303.0	4267.9
35°	1614.5	1618.7	1648.2	1733.8	1808.3	2850.0	4016.6	4538.9	4499.6	4449.0
37.5°	1527.5	1559.8	1601.9	1684.7	1697.3	2704.0	4162.6	4835.1	4786.0	4722.8
40°	1453.1	1502.2	1551.3	1592.0	1579.4	2496.2	4366.2	5183.3	5128.5	5055.5
42.5°	1394.1	1441.8	1496.6	1500.8	1505.0	2280.0	4582.4	5610.1	5600.2	5520.2
45°	1356.2	1387.1	1439.0	1432.0	1500.8	2041.3	4781.8	6261.5	6390.7	6330.3
47.5°	1330.9	1354.8	1360.4	1389.9	1537.3	1827.9	5038.7	7536.3	7895.7	7826.9
50°	1316.9	1340.7	1277.6	1392.7	1542.9	1690.3	5393.9	9136.7	9715.1	9623.9
52.5°	1315.5	1309.9	1214.4	1422.2	1512.0	1606.1	5579.2	10304.8	11588.0	11785.9
55°	1318.3	1248.1	1182.1	1430.6	1450.3	1575.2	4958.7	10866.4	13316.2	13734.6
57.5°	1293.0	1180.7	1200.4	1396.9	1333.7	1658.0	3665.6	10665.6	14006.9	14784.7
60°	1245.3	1116.1	1234.0	1305.6	1214.4	1516.2	2524.3	9769.9	13290.9	14091.2
62.5°	1176.5	1071.2	1229.8	1187.7	1170.9	1241.1	1735.2	8516.2	12155.2	12937.1
65°	1099.3	1034.7	1163.9	1074.0	1083.8	954.7	1227.0	7101.0	10799.0	11568.3
67.5°	1016.4	1012.2	1067.0	956.1	915.4	756.7	894.3	5691.5	9056.7	9750.2
70°	922.4	953.3	970.1	849.4	742.7	593.9	664.1	3980.1	6681.3	7284.9
72.5°	828.3	831.1	855.0	738.5	556.0	475.9	498.4	2410.5	4538.9	4978.3
75°	732.8	706.2	728.6	600.9	414.2	390.3	384.7	1489.6	3135.0	3481.7
77.5°	630.4	600.9	571.4	452.1	332.7	301.8	294.8	835.3	1923.4	2136.8
80°	512.4	473.1	426.8	331.3	242.9	216.2	214.8	407.1	958.9	1068.4
82.5°	398.7	324.3	311.7	206.4	150.2	132.0	140.4	155.8	289.2	322.9
85°	279.4	235.9	165.7	82.8	67.4	54.8	53.3	46.3	77.2	85.6
87.5°	155.8	102.5	53.3	9.8	11.2	12.6	9.8	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)