

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: P637276

Luminaire Tested: GWS-SA4C-740-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637276
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-740-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18379.8 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

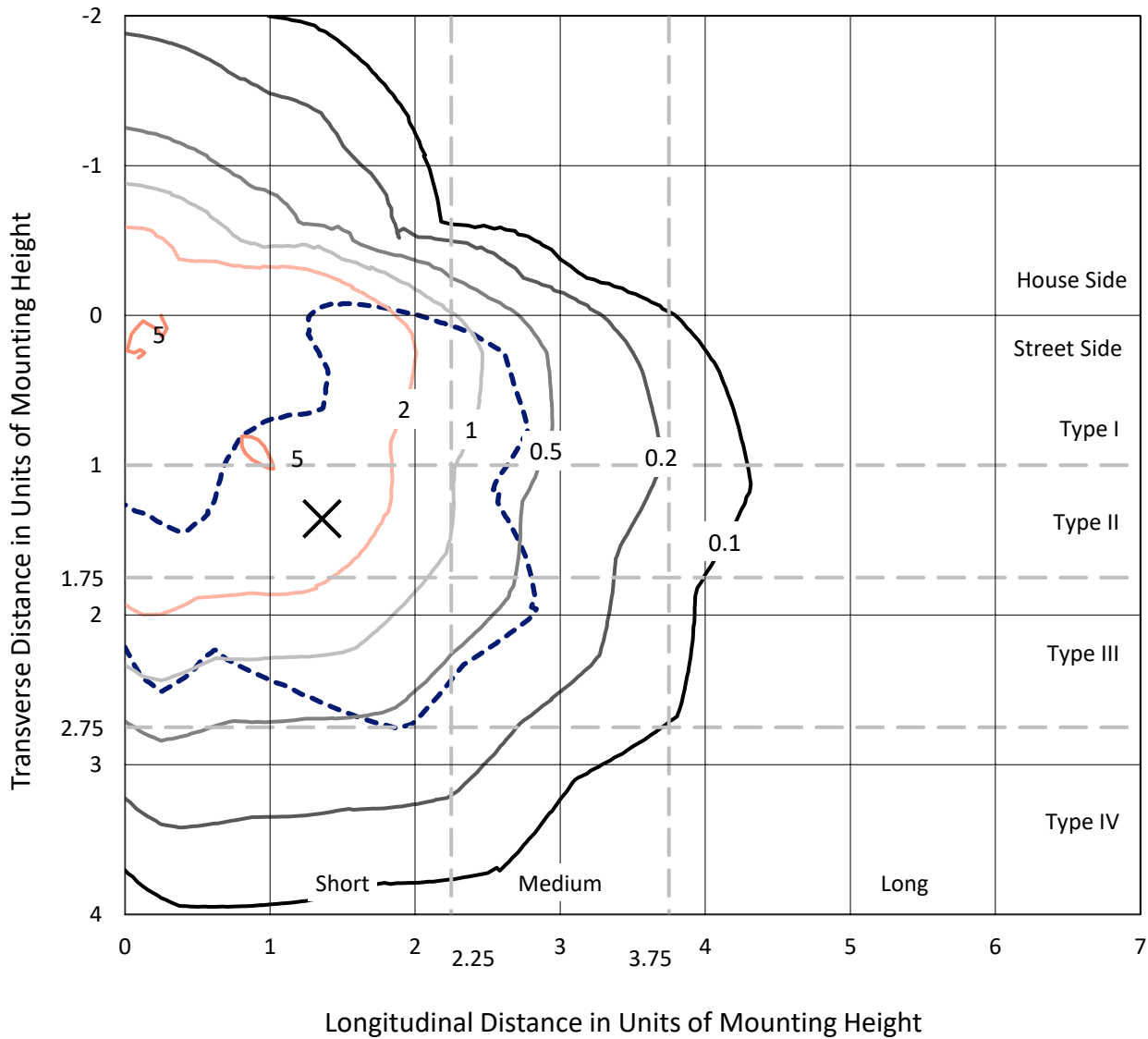
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

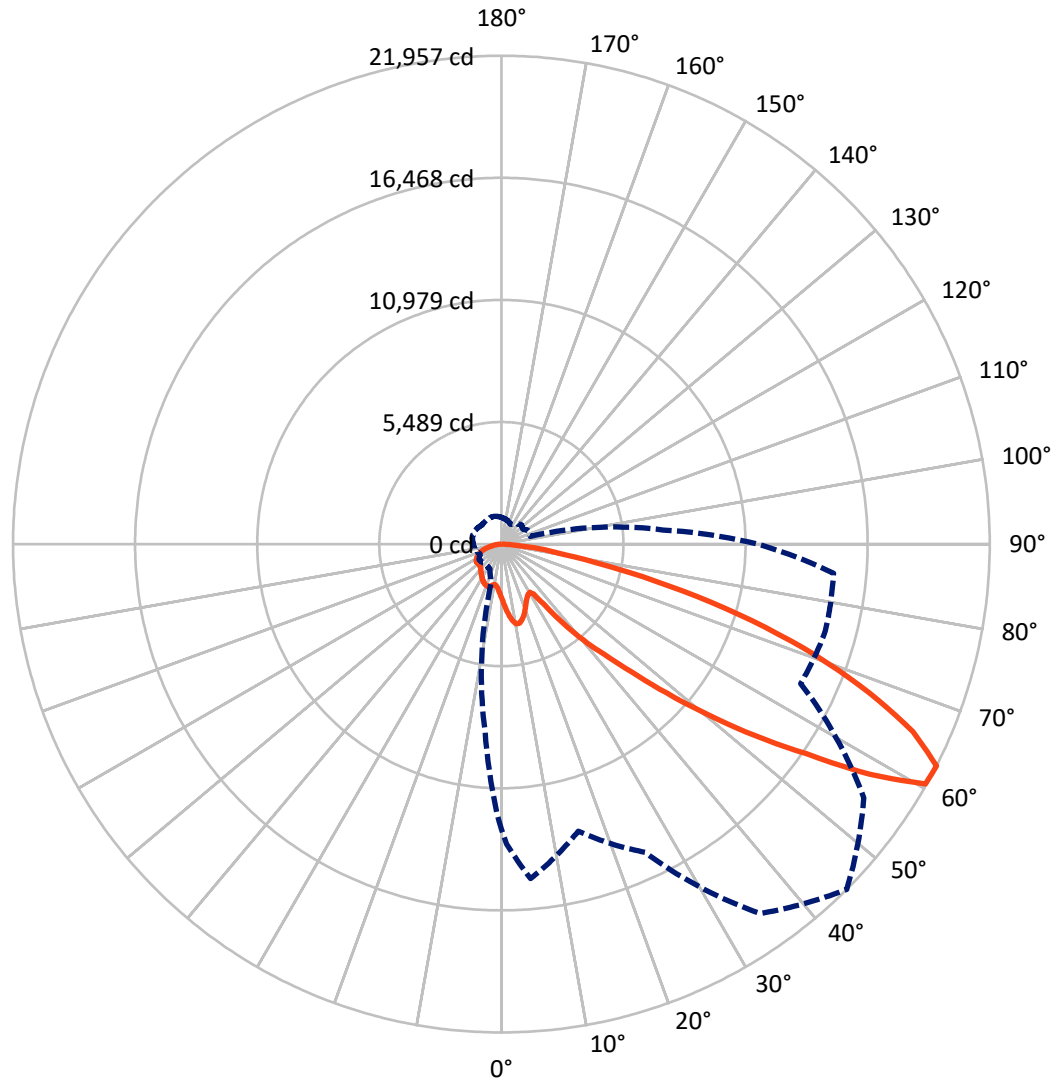
✕ Max cd
 - - - 1/2 Max cd



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	4385.8	0.0	4385.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	13994.0	0.0	13994.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	18379.8	0.0	18379.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.2	1.3
10°-20°	746.8	4.1
20°-30°	1160.0	6.3
30°-40°	1575.0	8.6
40°-50°	2496.2	13.6
50°-60°	4403.3	24.0
60°-70°	4899.3	26.7
70°-80°	2484.7	13.5
80°-90°	376.2	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°	18379.8	100.0
0°-180°	18379.8	100.0

Coefficient of Utilization



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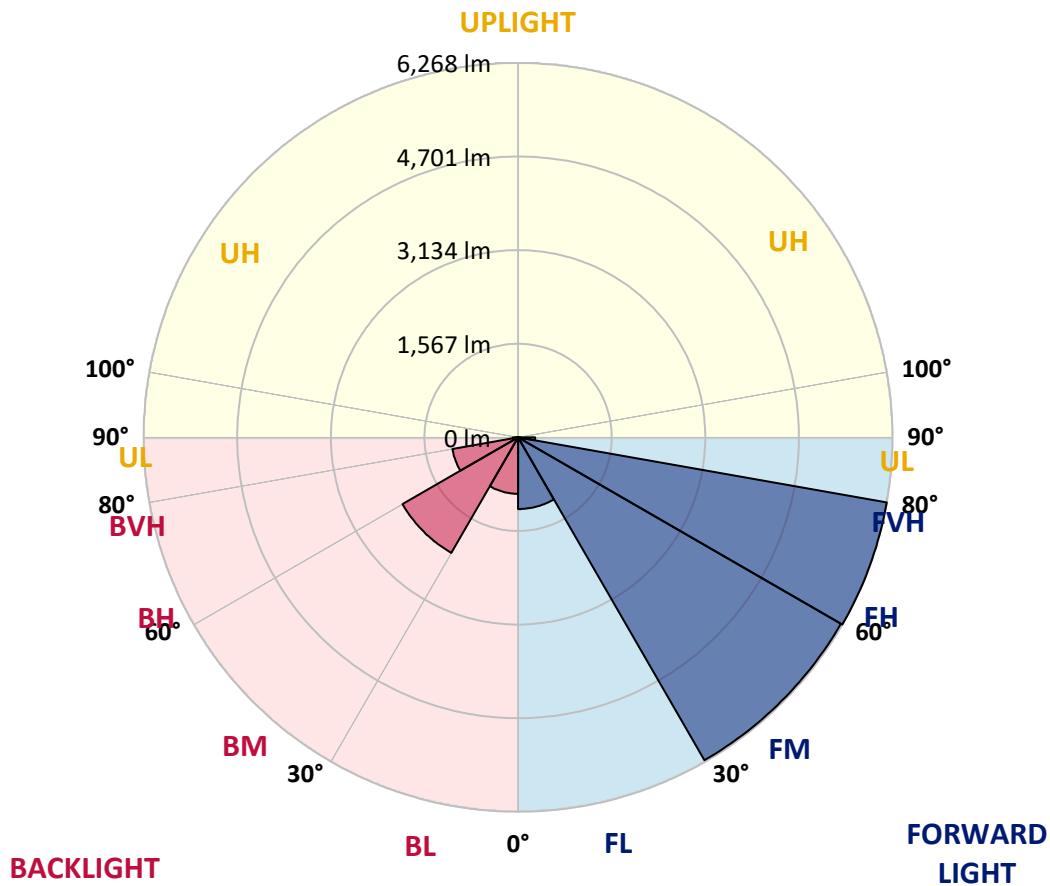
CATALOG NUMBER: GWS-SA4C-740-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.0	6.5			
FM (30°-60°)	6240.7	34.0			
FH (60°-80°)	6267.7	34.1			G3/7500
FVH (80°-90°)	285.6	1.6			G3/500
BL (0°-30°)	945.0	5.1	B2/1000		
BM (30°-60°)	2233.7	12.2	B2/2500		
BH (60°-80°)	1116.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	90.7	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°	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4
2.5°	2621.7	2620.3	2646.7	2687.1	2724.6	2741.3	2769.2	2766.4	2744.1	2714.9	2705.2
5°	2827.6	2833.2	2879.1	2968.2	3067.0	3108.7	3126.8	3119.8	3079.5	3028.0	2937.5
7.5°	3014.1	3023.8	3094.8	3228.4	3350.8	3406.5	3451.0	3442.7	3384.2	3288.2	3154.6
10°	3150.5	3161.6	3246.5	3403.7	3540.1	3588.8	3645.8	3648.6	3597.1	3467.7	3331.4
12.5°	3286.8	3298.0	3377.3	3520.6	3609.7	3611.1	3644.5	3662.5	3665.3	3605.5	3469.1
15°	3428.8	3438.5	3510.9	3591.6	3587.4	3509.5	3509.5	3544.3	3620.8	3663.9	3569.3
17.5°	3549.8	3562.3	3618.0	3591.6	3467.7	3327.2	3310.5	3355.0	3488.6	3654.2	3644.5
20°	3650.0	3659.8	3690.4	3515.0	3289.6	3105.9	3073.9	3125.4	3306.3	3594.4	3701.5
22.5°	3746.0	3751.6	3734.9	3414.8	3097.6	2887.5	2848.5	2902.8	3097.6	3488.6	3750.2
25°	3860.1	3854.6	3775.3	3310.5	2922.2	2714.9	2674.5	2735.8	2938.9	3348.1	3803.1
27.5°	3992.3	3971.5	3810.0	3197.8	2787.3	2586.9	2559.0	2624.5	2813.7	3218.6	3844.8
30°	4105.1	4064.7	3815.6	3097.6	2717.7	2532.6	2515.9	2577.1	2752.5	3131.0	3897.7
32.5°	4230.3	4174.6	3847.6	3071.1	2756.6	2663.4	2685.7	2689.9	2769.2	3105.9	3977.0
35°	4409.8	4337.4	3935.3	3147.7	3157.4	3314.7	3395.4	3286.8	3021.0	3161.6	4127.3
37.5°	4681.2	4589.3	4113.4	3478.9	3985.4	4337.4	4532.3	4284.6	3786.4	3371.7	4354.1
40°	5010.9	4894.1	4341.6	4091.1	4759.1	5322.7	5669.1	5306.0	4574.0	3896.3	4672.8
42.5°	5471.5	5349.1	4784.1	4692.3	5475.7	6314.8	6767.1	6225.8	5268.4	4574.0	5183.5
45°	6274.5	6156.2	5595.4	5294.8	6314.8	7536.6	8171.1	7418.3	5973.9	5254.5	6138.1
47.5°	7757.9	7618.7	6800.5	5962.8	7272.2	9123.0	10010.8	8914.2	6707.2	6033.7	7741.2
50°	9539.0	9405.4	8313.1	6753.2	8329.8	10819.2	12053.5	10671.7	7551.9	6981.4	9657.3
52.5°	11682.0	11657.0	10471.4	7752.3	9430.5	12628.3	14320.4	12618.5	8477.3	8257.4	11828.1
55°	13613.5	13858.4	13212.7	9276.0	10852.6	14900.6	16651.2	14742.0	9732.5	10367.0	14370.5
57.5°	14654.3	15312.5	16304.7	12384.7	12920.5	17616.9	19527.5	17334.5	11889.3	13879.2	16727.7
60°	13966.9	14712.8	16510.7	14725.3	14971.6	19793.3	21901.5	19513.6	14007.3	16317.2	16594.1
62.5°	12823.1	13492.4	15091.3	13358.8	15288.9	20272.0	21957.2	19893.5	14849.2	15080.2	14989.7
65°	11466.3	12141.2	13834.7	11661.1	14280.0	19135.1	20337.4	18776.1	13336.5	13624.6	13658.0
67.5°	9664.3	10287.7	12011.8	10368.4	13016.5	17466.6	17850.7	17184.2	12281.8	12741.0	12260.9
70°	7220.7	7782.9	9305.2	8425.8	10972.3	15293.1	14982.7	15081.5	11097.6	11554.0	10241.8
72.5°	4934.4	5357.4	6662.7	6621.0	8402.1	12242.8	11810.0	12746.5	9269.1	9874.4	7807.9
75°	3451.0	3780.8	4816.1	5230.8	6351.0	9074.3	8410.5	9540.4	7238.8	8103.0	5697.0
77.5°	2117.9	2336.4	3041.9	3875.4	4085.6	6210.5	5223.9	7179.0	5083.3	5909.9	3800.3
80°	1059.0	1164.7	1477.8	2436.6	2709.3	3659.8	2884.7	4167.7	3439.9	3659.8	2102.6
82.5°	320.1	353.5	432.8	925.4	1404.1	2106.8	1704.6	2421.3	1878.6	1715.8	828.0
85°	84.9	96.0	119.7	274.1	492.6	755.6	576.1	1173.1	900.3	633.2	311.7
87.5°	7.0	7.0	5.6	5.6	2.8	0.0	0.0	83.5	168.4	96.0	54.3
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°	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4
2.5°	2656.5	2650.9	2593.8	2552.1	2503.4	2456.1	2407.4	2364.2	2315.5	2266.8	2252.9
5°	2870.8	2831.8	2710.7	2609.1	2509.0	2421.3	2344.7	2265.4	2201.4	2138.8	2115.1
7.5°	3060.0	2991.8	2816.5	2662.0	2522.9	2414.3	2301.6	2186.1	2095.7	2006.6	1984.3
10°	3231.2	3140.7	2919.5	2724.6	2570.2	2446.3	2314.1	2159.7	2028.9	1920.3	1891.1
12.5°	3357.8	3259.0	3008.5	2784.5	2609.1	2470.0	2339.2	2202.8	2065.0	1924.5	1892.5
15°	3458.0	3355.0	3082.3	2830.4	2610.5	2431.0	2304.4	2257.1	2213.9	2076.2	2017.7
17.5°	3538.7	3430.2	3146.3	2858.2	2573.0	2312.7	2202.8	2272.4	2382.3	2296.0	2186.1
20°	3612.4	3502.5	3195.0	2877.7	2489.5	2149.9	2088.7	2236.2	2401.8	2399.0	2300.2
22.5°	3693.2	3586.0	3266.0	2888.8	2372.6	1984.3	2020.5	2183.3	2318.3	2358.7	2297.4
25°	3796.1	3701.5	3364.8	2913.9	2240.4	1870.2	1970.4	2115.1	2227.9	2237.6	2201.4
27.5°	3915.8	3844.8	3512.3	2972.3	2112.4	1811.8	1912.0	2019.1	2122.1	2126.3	2083.1
30°	4046.6	3999.3	3648.6	3021.0	2016.3	1793.7	1836.8	1923.1	1988.5	1999.6	1962.1
32.5°	4213.6	4171.8	3769.7	2989.0	1959.3	1789.5	1767.3	1811.8	1866.1	1866.1	1836.8
35°	4443.2	4384.8	3897.7	2866.6	1889.7	1772.8	1693.5	1706.0	1729.7	1733.9	1717.2
37.5°	4768.8	4672.8	4027.1	2624.5	1775.6	1713.0	1608.6	1593.3	1601.7	1612.8	1608.6
40°	5172.4	5015.1	4216.4	2333.6	1639.2	1597.5	1521.0	1491.7	1484.8	1507.0	1515.4
42.5°	5680.3	5439.5	4419.5	2062.3	1515.4	1465.3	1418.0	1392.9	1381.8	1419.4	1441.6
45°	6491.5	6095.0	4614.4	1793.7	1445.8	1352.6	1320.6	1302.5	1308.1	1352.6	1380.4
47.5°	7892.8	7095.5	4799.4	1623.9	1440.2	1271.9	1232.9	1237.1	1252.4	1299.7	1333.1
50°	9665.7	8435.5	4923.3	1553.0	1456.9	1223.2	1171.7	1193.9	1217.6	1263.5	1302.5
52.5°	11470.5	9683.7	4775.8	1514.0	1455.6	1224.6	1114.6	1181.4	1192.6	1238.5	1280.2
55°	12711.7	9822.9	4125.9	1454.2	1433.3	1280.2	1070.1	1175.9	1182.8	1224.6	1262.1
57.5°	13184.9	9347.0	3146.3	1470.9	1366.5	1323.4	1050.6	1136.9	1187.0	1223.2	1262.1
60°	12612.9	8449.4	1912.0	1514.0	1259.3	1320.6	1063.1	1065.9	1152.2	1213.4	1252.4
62.5°	11534.5	7297.3	1342.8	1391.5	1181.4	1246.8	1092.4	982.4	1091.0	1164.7	1199.5
65°	10298.8	5941.9	1024.2	1198.1	1143.8	1132.7	1102.1	908.7	1007.5	1079.8	1110.5
67.5°	9011.6	4618.5	832.1	893.4	1033.9	1024.2	1007.5	843.3	908.7	960.2	995.0
70°	7390.5	3231.2	702.7	670.7	886.4	918.4	880.8	761.2	782.0	834.9	862.8
72.5°	5406.1	2013.6	577.5	553.8	712.5	802.9	783.4	670.7	680.5	730.6	752.8
75°	3888.0	1152.2	463.4	456.4	544.1	687.4	648.5	577.5	588.6	626.2	641.5
77.5°	2471.4	641.5	357.6	367.4	389.6	513.5	553.8	494.0	494.0	516.3	528.8
80°	1323.4	367.4	261.6	265.8	272.7	392.4	436.9	382.7	382.7	367.4	382.7
82.5°	539.9	211.5	179.5	167.0	182.3	268.6	306.1	243.5	254.7	229.6	235.2
85°	178.1	105.8	89.1	87.7	86.3	118.3	147.5	121.1	144.7	91.8	96.0
87.5°	23.7	19.5	11.1	8.3	9.7	4.2	8.3	9.7	9.7	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°	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4
2.5°	2243.2	2232.0	2191.7	2201.4	2194.5	2183.3	2194.5	2173.6	2190.3	2195.9	2230.6
5°	2097.1	2070.6	2031.7	2012.2	2008.0	1996.9	1998.3	1988.5	1991.3	2015.0	2053.9
7.5°	1966.3	1941.2	1910.6	1896.7	1884.1	1871.6	1870.2	1868.8	1880.0	1900.8	1938.4
10°	1871.6	1857.7	1845.2	1850.8	1845.2	1839.6	1829.9	1829.9	1848.0	1885.5	1931.5
12.5°	1871.6	1868.8	1871.6	1888.3	1886.9	1888.3	1875.8	1882.8	1932.9	1996.9	2062.3
15°	1971.8	1949.6	1949.6	1957.9	1955.1	1955.1	1955.1	1984.3	2098.4	2197.2	2266.8
17.5°	2094.3	2028.9	2001.0	1996.9	1995.5	1995.5	2001.0	2063.7	2241.8	2346.1	2386.5
20°	2179.2	2055.3	2009.4	1991.3	1992.7	1995.5	2012.2	2098.4	2294.7	2347.5	2337.8
22.5°	2194.5	2034.4	1978.8	1952.3	1956.5	1959.3	1984.3	2076.2	2222.3	2230.6	2211.2
25°	2123.5	1976.0	1916.2	1895.3	1900.8	1899.5	1921.7	1988.5	2092.9	2090.1	2079.0
27.5°	2017.7	1882.8	1838.2	1824.3	1834.1	1822.9	1829.9	1881.4	1962.1	1959.3	1955.1
30°	1909.2	1792.3	1752.0	1745.0	1757.5	1740.8	1742.2	1785.3	1841.0	1838.2	1836.8
32.5°	1800.7	1701.9	1665.7	1665.7	1678.2	1660.1	1662.9	1700.5	1738.0	1726.9	1726.9
35°	1697.7	1628.1	1598.9	1593.3	1603.1	1590.5	1596.1	1630.9	1644.8	1629.5	1619.8
37.5°	1607.2	1576.6	1547.4	1527.9	1529.3	1530.7	1547.4	1573.8	1565.5	1543.2	1530.7
40°	1523.7	1523.7	1495.9	1459.7	1455.6	1465.3	1493.1	1522.3	1498.7	1473.6	1458.3
42.5°	1463.9	1476.4	1450.0	1413.8	1405.5	1422.2	1452.8	1473.6	1445.8	1418.0	1397.1
45°	1408.2	1438.9	1420.8	1380.4	1369.3	1388.8	1427.7	1436.1	1398.5	1372.1	1356.8
47.5°	1369.3	1411.0	1398.5	1359.5	1342.8	1370.7	1411.0	1409.6	1362.3	1334.5	1322.0
50°	1341.4	1394.3	1392.9	1359.5	1341.4	1376.2	1412.4	1394.3	1342.8	1313.6	1301.1
52.5°	1319.2	1392.9	1402.7	1383.2	1370.7	1401.3	1423.5	1388.8	1328.9	1298.3	1288.6
55°	1309.4	1398.5	1405.5	1387.4	1376.2	1404.1	1423.5	1399.9	1328.9	1301.1	1292.7
57.5°	1312.2	1391.5	1392.9	1367.9	1348.4	1383.2	1413.8	1406.8	1344.2	1312.2	1302.5
60°	1295.5	1354.0	1356.8	1317.8	1295.5	1337.3	1391.5	1387.4	1337.3	1303.9	1285.8
62.5°	1239.9	1291.4	1292.7	1256.6	1224.6	1284.4	1344.2	1342.8	1296.9	1263.5	1242.6
65°	1146.6	1200.9	1214.8	1180.0	1155.0	1219.0	1281.6	1278.8	1232.9	1202.3	1181.4
67.5°	1031.1	1089.6	1116.0	1092.4	1082.6	1141.1	1199.5	1198.1	1160.5	1131.3	1113.2
70°	890.6	939.3	983.8	983.8	976.9	1043.7	1106.3	1100.7	1065.9	1043.7	1029.7
72.5°	773.7	811.3	825.2	839.1	860.0	929.6	982.4	986.6	961.6	950.4	961.6
75°	658.2	681.9	694.4	683.2	719.4	791.8	861.4	868.3	841.9	823.8	828.0
77.5°	541.3	567.7	580.3	555.2	552.4	644.3	729.2	744.5	722.2	694.4	702.7
80°	391.0	425.8	446.7	430.0	424.4	464.8	581.7	598.4	577.5	555.2	567.7
82.5°	239.3	258.8	264.4	281.1	315.9	332.6	374.3	430.0	414.7	395.2	430.0
85°	94.6	112.7	125.2	141.9	165.6	196.2	231.0	275.5	250.5	242.1	285.3
87.5°	5.6	1.4	0.0	2.8	23.7	45.9	98.8	136.4	114.1	122.5	147.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4	2439.4
2.5°	2258.5	2294.7	2343.4	2383.7	2435.2	2483.9	2534.0	2584.1	2610.5	2621.7
5°	2098.4	2165.2	2243.2	2329.4	2429.6	2535.4	2642.5	2752.5	2822.0	2827.6
7.5°	2002.4	2098.4	2205.6	2314.1	2438.0	2584.1	2753.9	2923.6	2994.6	3014.1
10°	2033.0	2140.2	2225.1	2326.7	2463.0	2645.3	2845.7	3044.7	3126.8	3150.5
12.5°	2155.5	2176.4	2202.8	2296.0	2463.0	2698.2	2940.3	3176.9	3264.6	3286.8
15°	2257.1	2156.9	2109.6	2208.4	2429.6	2744.1	3040.5	3302.1	3407.9	3428.8
17.5°	2265.4	2092.9	1989.9	2079.0	2371.2	2776.1	3136.5	3441.3	3530.3	3549.8
20°	2180.5	2024.7	1891.1	1945.4	2291.9	2790.0	3206.1	3542.9	3630.5	3650.0
22.5°	2084.5	1969.0	1824.3	1821.5	2195.9	2805.4	3289.6	3638.9	3733.5	3746.0
25°	1994.1	1892.5	1770.0	1731.1	2084.5	2834.6	3402.3	3783.6	3856.0	3860.1
27.5°	1888.3	1810.4	1726.9	1689.3	1987.1	2890.2	3569.3	3956.2	3999.3	3992.3
30°	1792.3	1733.9	1696.3	1685.2	1925.9	2932.0	3727.9	4125.9	4128.7	4105.1
32.5°	1690.7	1668.5	1668.5	1704.6	1875.8	2922.2	3857.4	4291.5	4265.1	4230.3
35°	1600.3	1604.4	1633.7	1718.6	1792.3	2824.8	3981.2	4498.9	4459.9	4409.8
37.5°	1514.0	1546.0	1587.8	1669.9	1682.4	2680.1	4125.9	4792.5	4743.8	4681.2
40°	1440.2	1489.0	1537.7	1578.0	1565.5	2474.2	4327.7	5137.6	5083.3	5010.9
42.5°	1381.8	1429.1	1483.4	1487.6	1491.7	2259.9	4542.0	5560.6	5550.9	5471.5
45°	1344.2	1374.8	1426.3	1419.4	1487.6	2023.3	4739.6	6206.3	6334.3	6274.5
47.5°	1319.2	1342.8	1348.4	1377.6	1523.7	1811.8	4994.2	7469.8	7826.0	7757.9
50°	1305.3	1328.9	1266.3	1380.4	1529.3	1675.4	5346.3	9056.2	9629.5	9539.0
52.5°	1303.9	1298.3	1203.7	1409.6	1498.7	1591.9	5530.0	10213.9	11485.8	11682.0
55°	1306.7	1237.1	1171.7	1418.0	1437.5	1561.3	4914.9	10770.5	13198.8	13613.5
57.5°	1281.6	1170.3	1189.8	1384.6	1322.0	1643.4	3633.3	10571.6	13883.4	14654.3
60°	1234.3	1106.3	1223.2	1294.1	1203.7	1502.9	2502.0	9683.7	13173.7	13966.9
62.5°	1166.1	1061.7	1219.0	1177.2	1160.5	1230.1	1719.9	8441.1	12048.0	12823.1
65°	1089.6	1025.6	1153.6	1064.5	1074.3	946.2	1216.2	7038.4	10703.7	11466.3
67.5°	1007.5	1003.3	1057.6	947.6	907.3	750.0	886.4	5641.3	8976.8	9664.3
70°	914.2	944.9	961.6	841.9	736.1	588.6	658.2	3945.0	6622.4	7220.7
72.5°	821.0	823.8	847.4	732.0	551.1	471.7	494.0	2389.3	4498.9	4934.4
75°	726.4	699.9	722.2	595.6	410.5	386.8	381.3	1476.4	3107.3	3451.0
77.5°	624.8	595.6	566.4	448.1	329.8	299.2	292.2	828.0	1906.4	2117.9
80°	507.9	468.9	423.0	328.4	240.7	214.3	212.9	403.5	950.4	1059.0
82.5°	395.2	321.4	308.9	204.6	148.9	130.8	139.2	154.5	286.7	320.1
85°	276.9	233.8	164.2	82.1	66.8	54.3	52.9	45.9	76.5	84.9
87.5°	154.5	101.6	52.9	9.7	11.1	12.5	9.7	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)