

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: P637716

Luminaire Tested: GWS-SA4D-735-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637716
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-SA4D-735-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22869.4 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

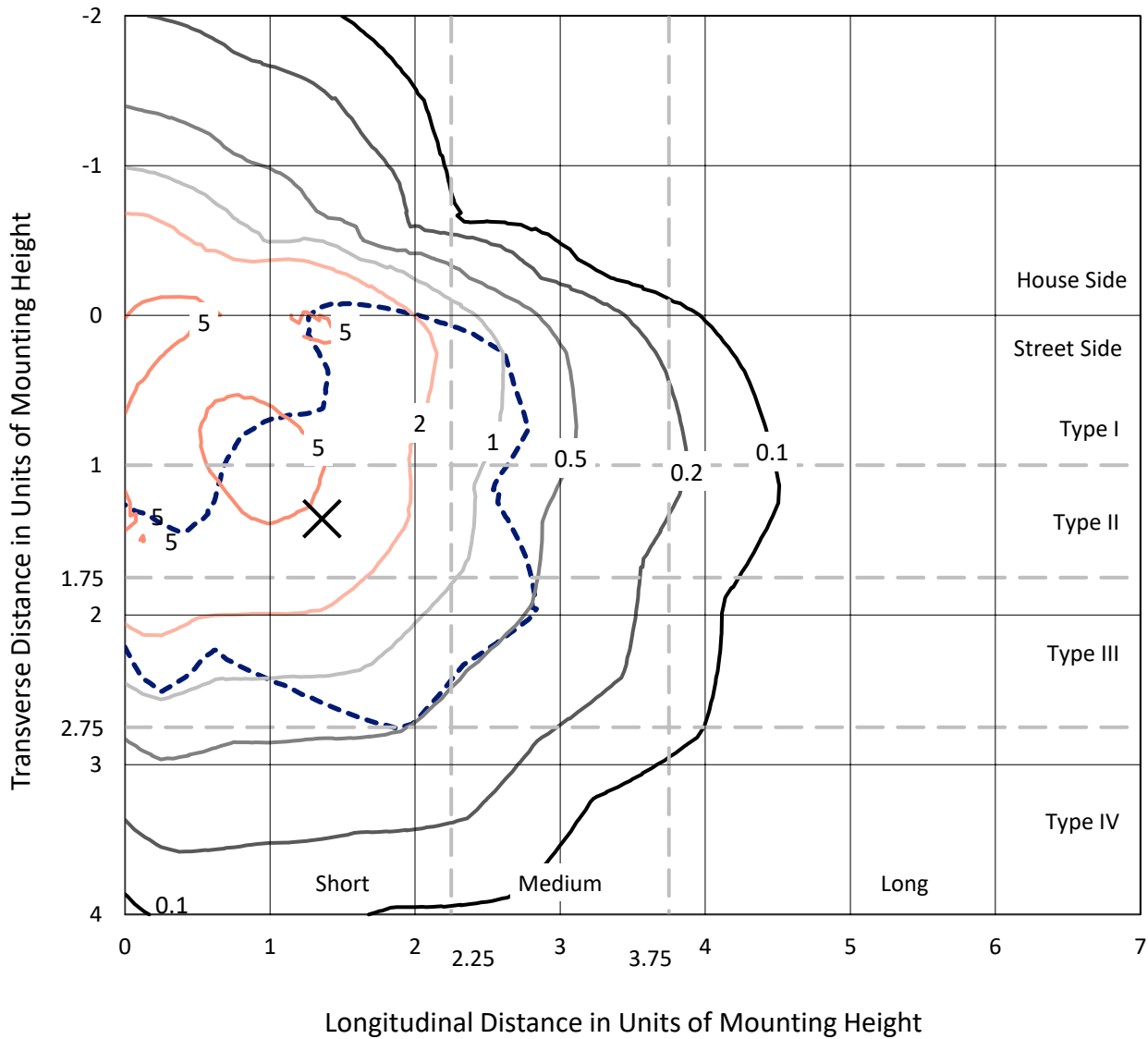
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

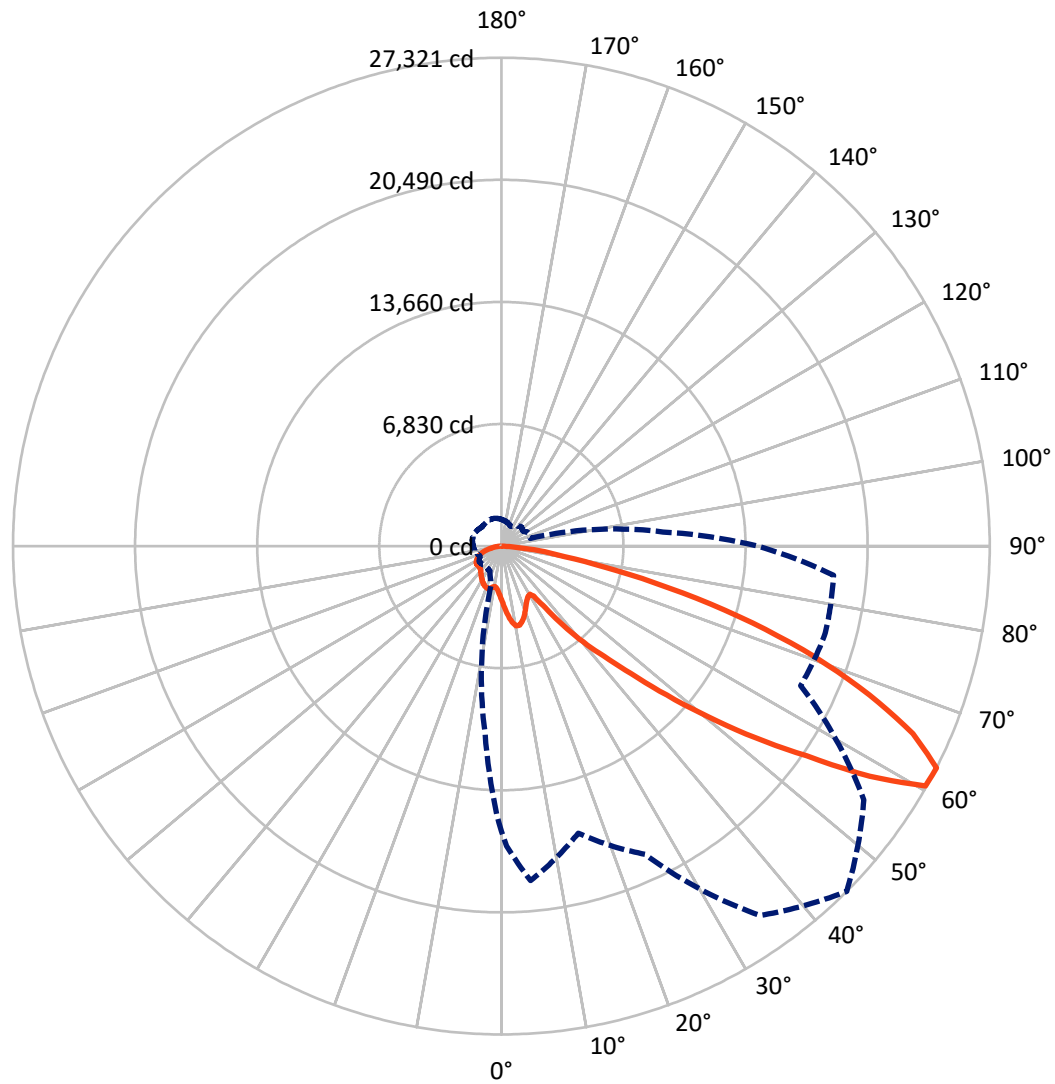
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	5457.1	0.0	5457.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	17412.3	0.0	17412.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	22869.4	0.0	22869.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	1.3
10°-20°	929.3	4.1
20°-30°	1443.4	6.3
30°-40°	1959.7	8.6
40°-50°	3105.9	13.6
50°-60°	5478.9	24.0
60°-70°	6096.1	26.7
70°-80°	3091.7	13.5
80°-90°	468.1	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°	22869.4	100.0
0°-180°	22869.4	100.0

Coefficient of Utilization



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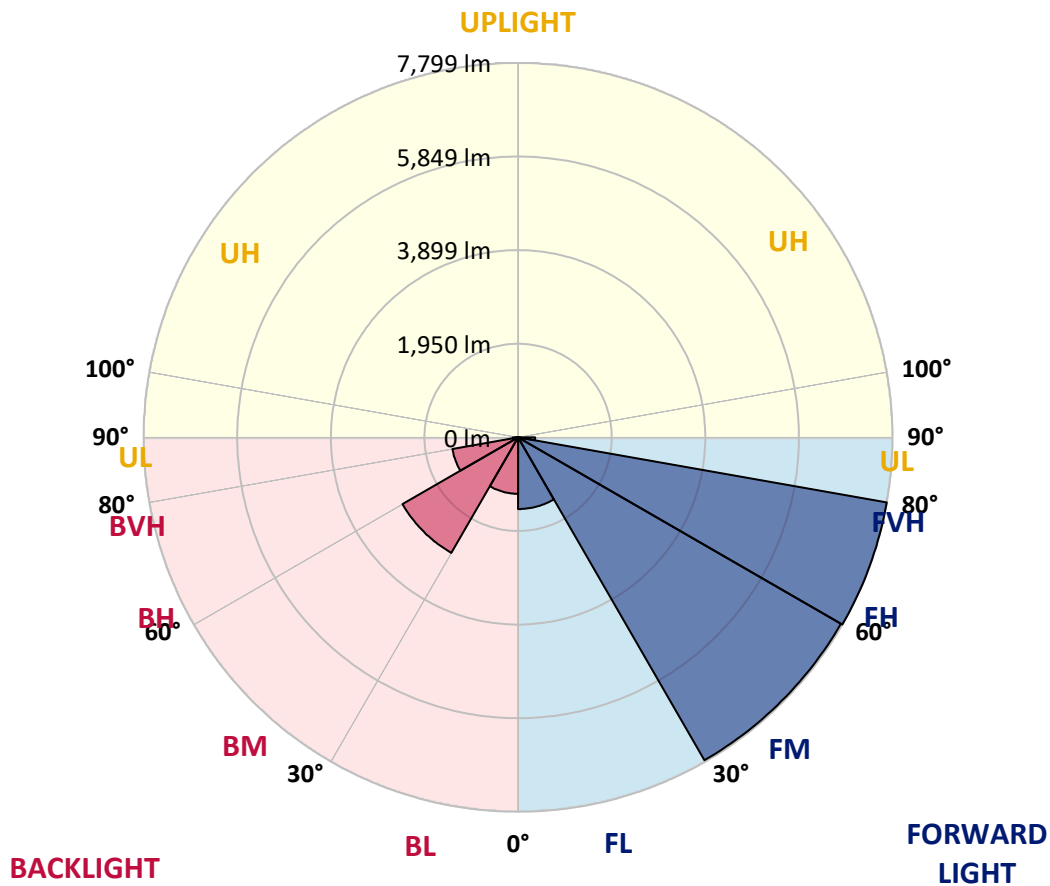
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.2	6.5			
FM (30°-60°)	7765.1	34.0			
FH (60°-80°)	7798.7	34.1			G4/12000
FVH (80°-90°)	355.3	1.6			G3/500
BL (0°-30°)	1175.9	5.1	B3/2500		
BM (30°-60°)	2779.3	12.2	B3/5000		
BH (60°-80°)	1389.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	112.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2
2.5°	3262.1	3260.3	3293.2	3343.4	3390.2	3411.0	3445.6	3442.1	3414.4	3378.1	3365.9
5°	3518.3	3525.2	3582.4	3693.2	3816.1	3868.1	3890.6	3881.9	3831.7	3767.6	3655.1
7.5°	3750.3	3762.4	3850.8	4017.0	4169.3	4238.6	4294.0	4283.6	4210.9	4091.4	3925.2
10°	3920.0	3933.9	4039.5	4235.1	4404.8	4465.4	4536.4	4539.9	4475.8	4314.8	4145.1
12.5°	4089.7	4103.5	4202.2	4380.6	4491.4	4493.1	4534.7	4557.2	4560.6	4486.2	4316.5
15°	4266.3	4278.4	4368.5	4468.9	4463.7	4366.7	4366.7	4410.0	4505.2	4558.9	4441.2
17.5°	4416.9	4432.5	4501.8	4468.9	4314.8	4139.9	4119.1	4174.5	4340.8	4546.8	4534.7
20°	4541.6	4553.7	4591.8	4373.6	4093.2	3864.6	3824.8	3888.8	4113.9	4472.3	4605.7
22.5°	4661.1	4668.0	4647.2	4249.0	3854.2	3592.8	3544.3	3611.8	3854.2	4340.8	4666.3
25°	4803.0	4796.1	4697.4	4119.1	3636.1	3378.1	3327.9	3404.0	3656.8	4165.9	4732.1
27.5°	4967.5	4941.6	4740.7	3978.9	3468.1	3218.8	3184.1	3265.5	3501.0	4004.8	4784.0
30°	5107.8	5057.6	4747.6	3854.2	3381.5	3151.2	3130.5	3206.7	3424.8	3895.8	4849.8
32.5°	5263.6	5194.4	4787.5	3821.3	3430.0	3314.0	3341.7	3346.9	3445.6	3864.6	4948.5
35°	5487.0	5396.9	4896.5	3916.5	3928.7	4124.3	4224.7	4089.7	3759.0	3933.9	5135.5
37.5°	5824.6	5710.3	5118.2	4328.6	4958.9	5396.9	5639.3	5331.1	4711.3	4195.3	5417.7
40°	6235.0	6089.5	5402.1	5090.5	5921.6	6622.8	7053.9	6602.0	5691.3	4848.1	5814.2
42.5°	6808.1	6655.7	5952.7	5838.5	6813.3	7857.3	8420.1	7746.5	6555.3	5691.3	6449.7
45°	7807.1	7659.9	6962.2	6588.2	7857.3	9377.5	10167.1	9230.4	7433.1	6538.0	7637.4
47.5°	9652.8	9479.7	8461.6	7419.3	9048.6	11351.4	12456.1	11091.7	8345.6	7507.6	9632.1
50°	11869.1	11702.9	10343.7	8402.7	10364.5	13462.0	14997.8	13278.5	9396.6	8686.7	12016.3
52.5°	14535.5	14504.4	13029.2	9645.9	11734.1	15712.9	17818.4	15700.8	10548.0	10274.4	14717.3
55°	16938.8	17243.5	16440.1	11541.9	13503.6	18540.4	20718.6	18343.0	12109.8	12899.3	17880.7
57.5°	18233.9	19052.9	20287.4	15409.9	16076.5	21920.2	24297.5	21568.7	14793.5	17269.5	20813.8
60°	17378.6	18306.6	20543.7	18322.2	18628.7	24628.2	27251.3	24280.2	17428.8	20303.0	20647.6
62.5°	15955.3	16788.2	18777.6	16621.9	19023.5	25223.8	27320.6	24752.8	18476.3	18763.8	18651.2
65°	14267.2	15106.9	17214.1	14509.6	17768.2	23809.2	25305.2	23362.5	16594.2	16952.7	16994.2
67.5°	12024.9	12800.6	14945.9	12901.1	16196.0	21733.2	22211.1	21381.7	15281.8	15853.2	15255.8
70°	8984.5	9684.0	11578.2	10483.9	13652.5	19028.7	18642.6	18765.5	13808.3	14376.3	12743.5
72.5°	6139.7	6666.1	8290.2	8238.3	10454.5	15233.3	14694.8	15860.1	11533.2	12286.4	9715.2
75°	4294.0	4704.4	5992.6	6508.5	7902.3	11290.8	10464.9	11870.8	9007.0	10082.2	7088.6
77.5°	2635.3	2907.1	3785.0	4822.1	5083.5	7727.5	6499.9	8932.6	6325.0	7353.5	4728.6
80°	1317.6	1449.2	1838.8	3031.8	3371.1	4553.7	3589.3	5185.7	4280.2	4553.7	2616.2
82.5°	398.2	439.8	538.5	1151.4	1747.0	2621.4	2121.0	3012.7	2337.5	2134.9	1030.2
85°	105.6	119.5	148.9	341.1	612.9	940.2	716.8	1459.6	1120.2	787.8	387.8
87.5°	8.7	8.7	6.9	6.9	3.5	0.0	0.0	103.9	209.5	119.5	67.5
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°	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2
2.5°	3305.3	3298.4	3227.4	3175.5	3114.9	3056.0	2995.4	2941.7	2881.1	2820.5	2803.2
5°	3572.0	3523.5	3372.9	3246.5	3121.8	3012.7	2917.5	2818.8	2739.2	2661.2	2631.8
7.5°	3807.5	3722.6	3504.5	3312.3	3139.1	3004.1	2863.8	2720.1	2607.6	2496.8	2469.1
10°	4020.4	3907.9	3632.6	3390.2	3198.0	3043.9	2879.4	2687.2	2524.5	2389.4	2353.0
12.5°	4178.0	4055.1	3743.4	3464.6	3246.5	3073.3	2910.6	2740.9	2569.5	2394.6	2354.8
15°	4302.7	4174.5	3835.2	3521.8	3248.2	3024.8	2867.3	2808.4	2754.7	2583.3	2510.6
17.5°	4403.1	4268.0	3914.8	3556.4	3201.5	2877.7	2740.9	2827.5	2964.2	2856.9	2720.1
20°	4494.9	4358.1	3975.4	3580.6	3097.6	2675.1	2598.9	2782.4	2988.5	2985.0	2862.1
22.5°	4595.3	4462.0	4063.7	3594.5	2952.1	2469.1	2514.1	2716.6	2884.6	2934.8	2858.6
25°	4723.4	4605.7	4186.7	3625.7	2787.6	2327.1	2451.7	2631.8	2772.1	2784.2	2739.2
27.5°	4872.3	4784.0	4370.2	3698.4	2628.3	2254.4	2379.0	2512.3	2640.5	2645.7	2592.0
30°	5035.1	4976.2	4539.9	3759.0	2508.9	2231.8	2285.5	2392.9	2474.2	2488.1	2441.3
32.5°	5242.8	5190.9	4690.5	3719.2	2437.9	2226.6	2198.9	2254.4	2321.9	2321.9	2285.5
35°	5528.5	5455.8	4849.8	3566.8	2351.3	2205.9	2107.2	2122.8	2152.2	2157.4	2136.6
37.5°	5933.7	5814.2	5010.8	3265.5	2209.3	2131.4	2001.6	1982.5	1992.9	2006.8	2001.6
40°	6435.8	6240.2	5246.3	2903.6	2039.7	1987.7	1892.5	1856.1	1847.5	1875.2	1885.6
42.5°	7067.8	6768.2	5499.1	2566.0	1885.6	1823.2	1764.4	1733.2	1719.3	1766.1	1793.8
45°	8077.2	7583.8	5741.5	2231.8	1799.0	1683.0	1643.1	1620.6	1627.6	1683.0	1717.6
47.5°	9820.8	8828.7	5971.8	2020.6	1792.1	1582.5	1534.1	1539.3	1558.3	1617.2	1658.7
50°	12026.7	10496.1	6125.9	1932.3	1812.8	1521.9	1457.9	1485.6	1515.0	1572.2	1620.6
52.5°	14272.4	12049.2	5942.3	1883.8	1811.1	1523.7	1386.9	1470.0	1483.9	1541.0	1592.9
55°	15816.8	12222.3	5133.8	1809.4	1783.4	1592.9	1331.5	1463.1	1471.7	1523.7	1570.4
57.5°	16405.5	11630.2	3914.8	1830.1	1700.3	1646.6	1307.2	1414.6	1476.9	1521.9	1570.4
60°	15693.9	10513.4	2379.0	1883.8	1567.0	1643.1	1322.8	1326.3	1433.6	1509.8	1558.3
62.5°	14352.0	9079.7	1670.9	1731.5	1470.0	1551.4	1359.2	1222.4	1357.5	1449.2	1492.5
65°	12814.5	7393.3	1274.3	1490.8	1423.3	1409.4	1371.3	1130.6	1253.6	1343.6	1381.7
67.5°	11212.9	5746.7	1035.4	1111.6	1286.5	1274.3	1253.6	1049.3	1130.6	1194.7	1238.0
70°	9195.7	4020.4	874.4	834.6	1102.9	1142.8	1096.0	947.1	973.1	1038.9	1073.5
72.5°	6726.7	2505.4	718.6	689.1	886.5	999.0	974.8	834.6	846.7	909.0	936.7
75°	4837.7	1433.6	576.6	567.9	677.0	855.3	806.9	718.6	732.4	779.2	798.2
77.5°	3075.1	798.2	445.0	457.1	484.8	638.9	689.1	614.7	614.7	642.4	658.0
80°	1646.6	457.1	325.5	330.7	339.4	488.3	543.7	476.1	476.1	457.1	476.1
82.5°	671.8	263.2	223.4	207.8	226.8	334.2	380.9	303.0	316.9	285.7	292.6
85°	221.6	131.6	110.8	109.1	107.4	147.2	183.5	150.6	180.1	114.3	119.5
87.5°	29.4	24.2	13.9	10.4	12.1	5.2	10.4	12.1	12.1	8.7	8.7
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°	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2
2.5°	2791.1	2777.2	2727.0	2739.2	2730.5	2716.6	2730.5	2704.5	2725.3	2732.2	2775.5
5°	2609.3	2576.4	2527.9	2503.7	2498.5	2484.6	2486.4	2474.2	2477.7	2507.1	2555.6
7.5°	2446.5	2415.4	2377.3	2360.0	2344.4	2328.8	2327.1	2325.3	2339.2	2365.2	2411.9
10°	2328.8	2311.5	2295.9	2302.8	2295.9	2289.0	2276.9	2276.9	2299.4	2346.1	2403.3
12.5°	2328.8	2325.3	2328.8	2349.6	2347.8	2349.6	2334.0	2342.7	2405.0	2484.6	2566.0
15°	2453.5	2425.8	2425.8	2436.2	2432.7	2432.7	2432.7	2469.1	2611.0	2734.0	2820.5
17.5°	2605.8	2524.5	2489.8	2484.6	2482.9	2482.9	2489.8	2567.7	2789.4	2919.2	2969.4
20°	2711.5	2557.4	2500.2	2477.7	2479.4	2482.9	2503.7	2611.0	2855.2	2921.0	2908.8
22.5°	2730.5	2531.4	2462.1	2429.2	2434.4	2437.9	2469.1	2583.3	2765.1	2775.5	2751.3
25°	2642.2	2458.7	2384.2	2358.2	2365.2	2363.4	2391.1	2474.2	2604.1	2600.6	2586.8
27.5°	2510.6	2342.7	2287.2	2269.9	2282.1	2268.2	2276.9	2340.9	2441.3	2437.9	2432.7
30°	2375.6	2230.1	2179.9	2171.2	2186.8	2166.0	2167.8	2221.5	2290.7	2287.2	2285.5
32.5°	2240.5	2117.6	2072.5	2072.5	2088.1	2065.6	2069.1	2115.8	2162.6	2148.7	2148.7
35°	2112.4	2025.8	1989.4	1982.5	1994.6	1979.1	1986.0	2029.3	2046.6	2027.5	2015.4
37.5°	1999.8	1961.7	1925.4	1901.1	1902.9	1904.6	1925.4	1958.3	1947.9	1920.2	1904.6
40°	1895.9	1895.9	1861.3	1816.3	1811.1	1823.2	1857.8	1894.2	1864.8	1833.6	1814.6
42.5°	1821.5	1837.1	1804.2	1759.2	1748.8	1769.5	1807.6	1833.6	1799.0	1764.4	1738.4
45°	1752.2	1790.3	1767.8	1717.6	1703.7	1728.0	1776.5	1786.9	1740.1	1707.2	1688.2
47.5°	1703.7	1755.7	1740.1	1691.6	1670.9	1705.5	1755.7	1754.0	1695.1	1660.5	1644.9
50°	1669.1	1734.9	1733.2	1691.6	1669.1	1712.4	1757.4	1734.9	1670.9	1634.5	1618.9
52.5°	1641.4	1733.2	1745.3	1721.1	1705.5	1743.6	1771.3	1728.0	1653.5	1615.4	1603.3
55°	1629.3	1740.1	1748.8	1726.3	1712.4	1747.0	1771.3	1741.8	1653.5	1618.9	1608.5
57.5°	1632.8	1731.5	1733.2	1702.0	1677.8	1721.1	1759.2	1750.5	1672.6	1632.8	1620.6
60°	1612.0	1684.7	1688.2	1639.7	1612.0	1663.9	1731.5	1726.3	1663.9	1622.4	1599.9
62.5°	1542.7	1606.8	1608.5	1563.5	1523.7	1598.1	1672.6	1670.9	1613.7	1572.2	1546.2
65°	1426.7	1494.2	1511.6	1468.3	1437.1	1516.8	1594.7	1591.2	1534.1	1496.0	1470.0
67.5°	1283.0	1355.7	1388.6	1359.2	1347.1	1419.8	1492.5	1490.8	1444.0	1407.7	1385.2
70°	1108.1	1168.7	1224.1	1224.1	1215.5	1298.6	1376.5	1369.6	1326.3	1298.6	1281.3
72.5°	962.7	1009.4	1026.8	1044.1	1070.0	1156.6	1222.4	1227.6	1196.4	1182.6	1196.4
75°	819.0	848.4	864.0	850.1	895.2	985.2	1071.8	1080.4	1047.5	1025.0	1030.2
77.5°	673.5	706.4	722.0	690.8	687.4	801.7	907.3	926.3	898.6	864.0	874.4
80°	486.5	529.8	555.8	535.0	528.1	578.3	723.7	744.5	718.6	690.8	706.4
82.5°	297.8	322.1	329.0	349.8	393.0	413.8	465.8	535.0	516.0	491.7	535.0
85°	117.7	140.2	155.8	176.6	206.0	244.1	287.4	342.8	311.7	301.3	354.9
87.5°	6.9	1.7	0.0	3.5	29.4	57.1	122.9	169.7	142.0	152.4	183.5
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°	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2	3035.2
2.5°	2810.1	2855.2	2915.8	2966.0	3030.0	3090.6	3153.0	3215.3	3248.2	3262.1
5°	2611.0	2694.1	2791.1	2898.5	3023.1	3154.7	3288.0	3424.8	3511.4	3518.3
7.5°	2491.6	2611.0	2744.4	2879.4	3033.5	3215.3	3426.5	3637.8	3726.1	3750.3
10°	2529.7	2663.0	2768.6	2895.0	3064.7	3291.5	3540.8	3788.4	3890.6	3920.0
12.5°	2682.0	2708.0	2740.9	2856.9	3064.7	3357.3	3658.6	3952.9	4062.0	4089.7
15°	2808.4	2683.8	2624.9	2747.8	3023.1	3414.4	3783.2	4108.7	4240.3	4266.3
17.5°	2818.8	2604.1	2476.0	2586.8	2950.4	3454.2	3902.7	4281.9	4392.7	4416.9
20°	2713.2	2519.3	2353.0	2420.6	2851.7	3471.6	3989.3	4408.3	4517.4	4541.6
22.5°	2593.7	2450.0	2269.9	2266.5	2732.2	3490.6	4093.2	4527.7	4645.5	4661.1
25°	2481.2	2354.8	2202.4	2153.9	2593.7	3527.0	4233.4	4707.8	4797.9	4803.0
27.5°	2349.6	2252.6	2148.7	2102.0	2472.5	3596.2	4441.2	4922.5	4976.2	4967.5
30°	2230.1	2157.4	2110.6	2096.8	2396.3	3648.2	4638.6	5133.8	5137.2	5107.8
32.5°	2103.7	2076.0	2076.0	2121.0	2334.0	3636.1	4799.6	5339.8	5306.9	5263.6
35°	1991.2	1996.4	2032.7	2138.3	2230.1	3514.8	4953.7	5597.8	5549.3	5487.0
37.5°	1883.8	1923.6	1975.6	2077.7	2093.3	3334.8	5133.8	5963.1	5902.5	5824.6
40°	1792.1	1852.7	1913.3	1963.5	1947.9	3078.5	5384.8	6392.5	6325.0	6235.0
42.5°	1719.3	1778.2	1845.7	1850.9	1856.1	2811.9	5651.5	6918.9	6906.8	6808.1
45°	1672.6	1710.7	1774.7	1766.1	1850.9	2517.5	5897.3	7722.3	7881.6	7807.1
47.5°	1641.4	1670.9	1677.8	1714.1	1895.9	2254.4	6214.2	9294.4	9737.7	9652.8
50°	1624.1	1653.5	1575.6	1717.6	1902.9	2084.7	6652.2	11268.3	11981.7	11869.1
52.5°	1622.4	1615.4	1497.7	1754.0	1864.8	1980.8	6880.8	12708.9	14291.4	14535.5
55°	1625.8	1539.3	1457.9	1764.4	1788.6	1942.7	6115.5	13401.4	16422.8	16938.8
57.5°	1594.7	1456.2	1480.4	1722.8	1644.9	2044.8	4520.8	13153.8	17274.7	18233.9
60°	1535.8	1376.5	1521.9	1610.3	1497.7	1870.0	3113.2	12049.2	16391.7	17378.6
62.5°	1451.0	1321.1	1516.8	1464.8	1444.0	1530.6	2140.1	10503.0	14990.9	15955.3
65°	1355.7	1276.1	1435.4	1324.6	1336.7	1177.4	1513.3	8757.7	13318.3	14267.2
67.5°	1253.6	1248.4	1315.9	1179.1	1128.9	933.3	1102.9	7019.3	11169.6	12024.9
70°	1137.6	1175.7	1196.4	1047.5	915.9	732.4	819.0	4908.7	8240.0	8984.5
72.5°	1021.6	1025.0	1054.5	910.7	685.7	587.0	614.7	2972.9	5597.8	6139.7
75°	903.8	870.9	898.6	741.1	510.8	481.3	474.4	1837.1	3866.3	4294.0
77.5°	777.4	741.1	704.7	557.5	410.4	372.3	363.6	1030.2	2372.1	2635.3
80°	632.0	583.5	526.4	408.6	299.5	266.6	264.9	502.1	1182.6	1317.6
82.5°	491.7	400.0	384.4	254.5	185.3	162.8	173.1	192.2	356.7	398.2
85°	344.6	290.9	204.3	102.2	83.1	67.5	65.8	57.1	95.2	105.6
87.5°	192.2	126.4	65.8	12.1	13.9	15.6	12.1	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)