

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: P638541

Luminaire Tested: GWS-SA4F-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638541
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-SA4F-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23730.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

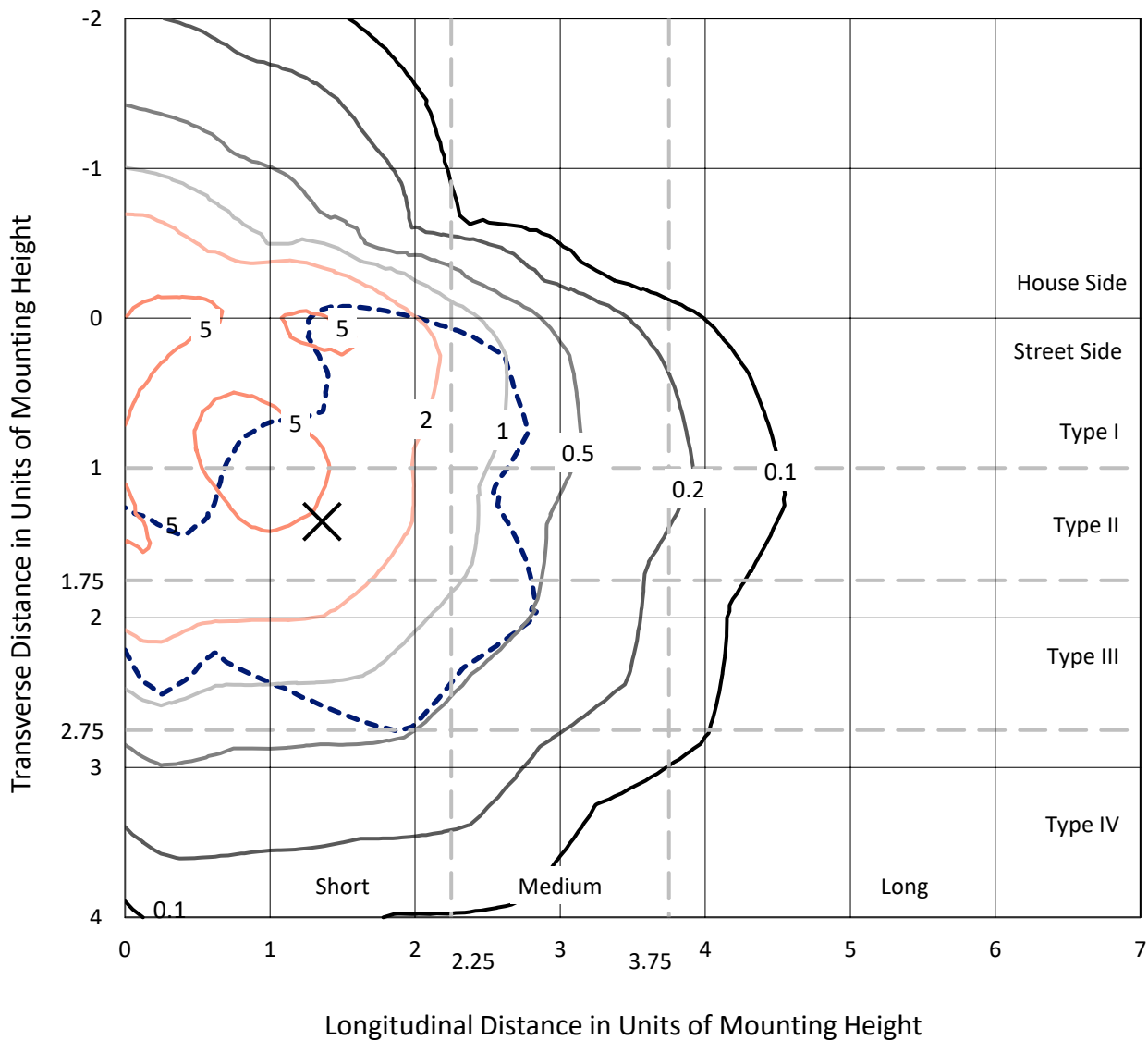
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

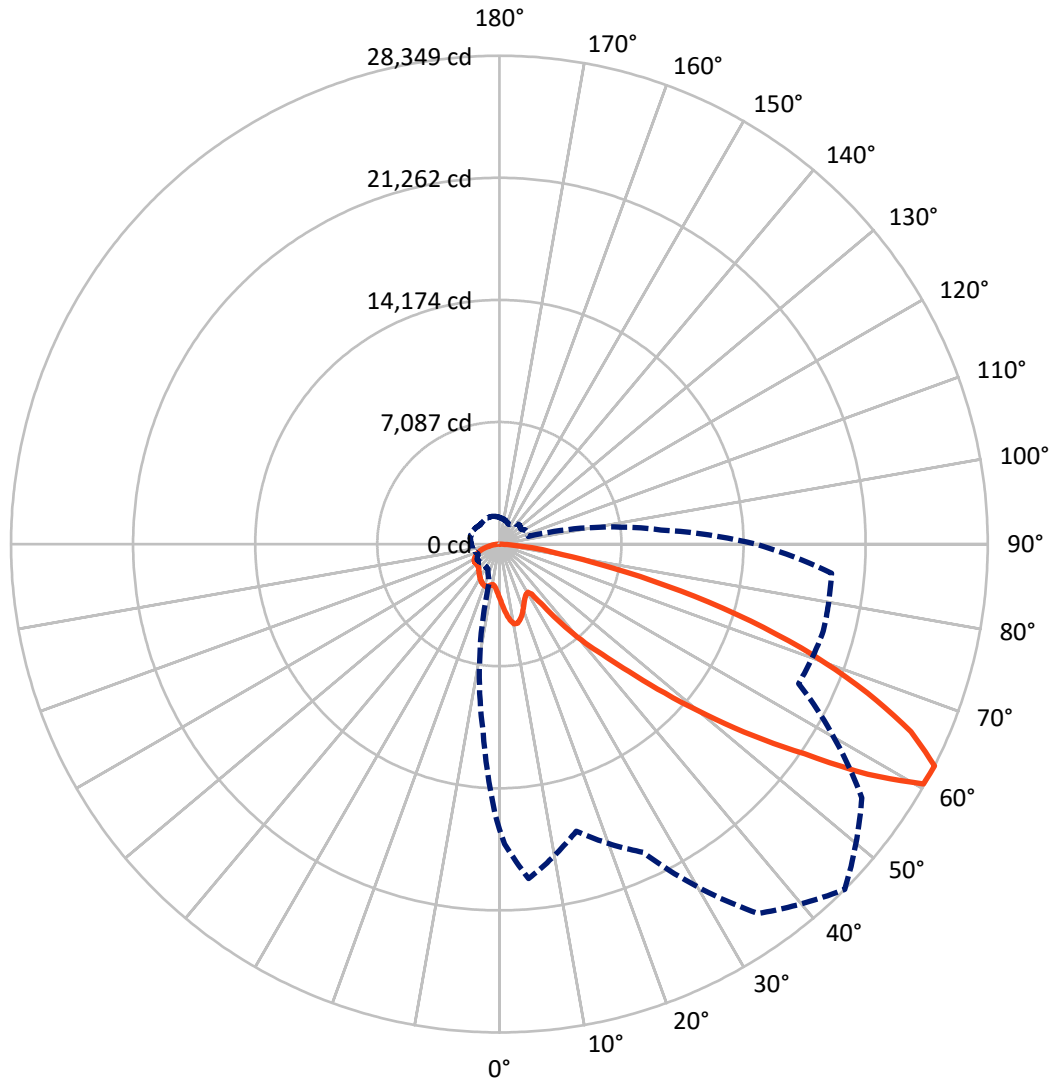
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	5662.4	0.0	5662.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	18067.7	0.0	18067.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	23730.1	0.0	23730.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	1.3
10°-20°	964.2	4.1
20°-30°	1497.7	6.3
30°-40°	2033.4	8.6
40°-50°	3222.8	13.6
50°-60°	5685.0	24.0
60°-70°	6325.5	26.7
70°-80°	3208.0	13.5
80°-90°	485.8	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°	23730.1	100.0
0°-180°	23730.1	100.0

Coefficient of Utilization



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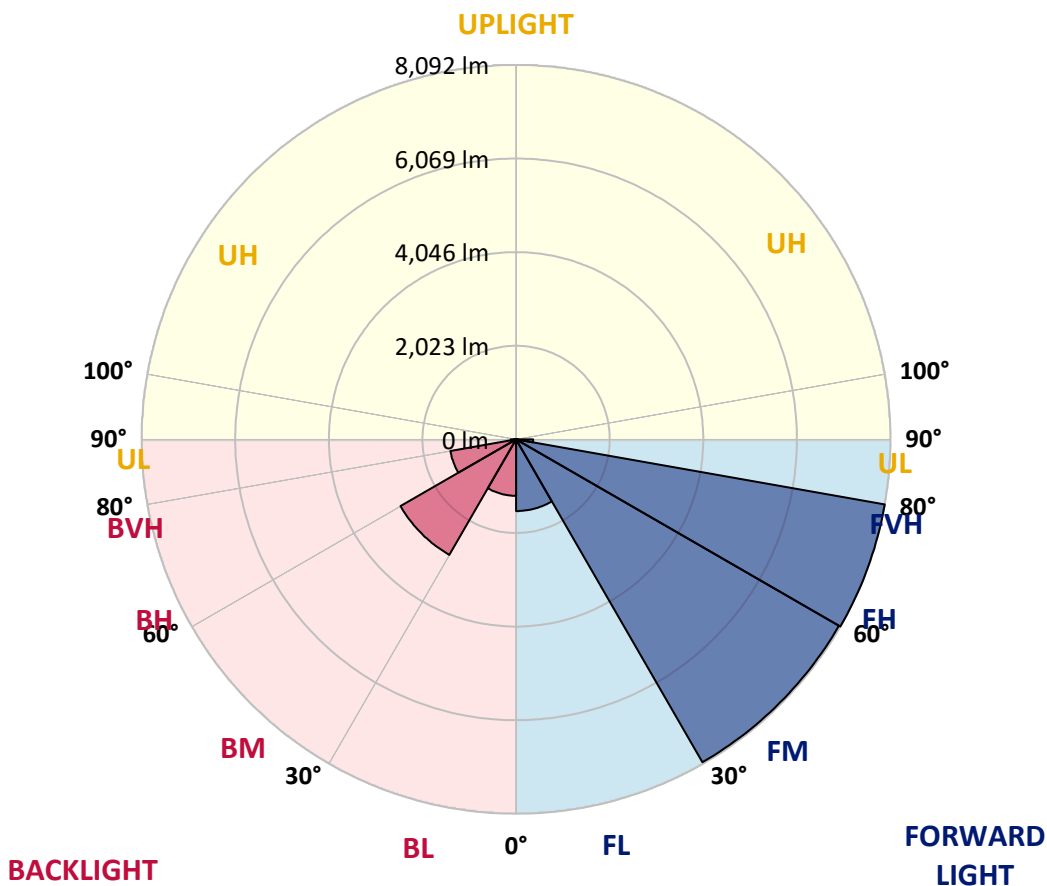
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.4	6.5			
FM (30°-60°)	8057.4	34.0			
FH (60°-80°)	8092.2	34.1			G4/12000
FVH (80°-90°)	368.7	1.6			G3/500
BL (0°-30°)	1220.1	5.1	B3/2500		
BM (30°-60°)	2883.9	12.2	B3/5000		
BH (60°-80°)	1441.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	117.1	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°	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5
2.5°	3384.8	3383.0	3417.2	3469.3	3517.8	3539.3	3575.3	3571.7	3542.9	3505.2	3492.6
5°	3650.7	3657.9	3717.2	3832.2	3959.7	4013.6	4037.0	4028.0	3975.9	3909.4	3792.7
7.5°	3891.5	3904.0	3995.7	4168.2	4326.3	4398.1	4455.6	4444.8	4369.4	4245.4	4072.9
10°	4067.5	4081.9	4191.5	4394.5	4570.6	4633.5	4707.1	4710.7	4644.3	4477.2	4301.1
12.5°	4243.6	4258.0	4360.4	4545.4	4660.4	4662.2	4705.3	4728.7	4732.3	4655.0	4479.0
15°	4426.9	4439.4	4532.9	4637.1	4631.7	4531.1	4531.1	4576.0	4674.8	4730.5	4608.3
17.5°	4583.2	4599.3	4671.2	4637.1	4477.2	4295.7	4274.2	4331.6	4504.1	4717.9	4705.3
20°	4712.5	4725.1	4764.6	4538.3	4247.2	4010.0	3968.7	4035.2	4268.8	4640.7	4779.0
22.5°	4836.5	4843.7	4822.1	4408.9	3999.3	3728.0	3677.7	3747.7	3999.3	4504.1	4841.9
25°	4983.8	4976.6	4874.2	4274.2	3772.9	3505.2	3453.1	3532.1	3794.5	4322.7	4910.2
27.5°	5154.5	5127.5	4919.1	4128.6	3598.6	3339.9	3304.0	3388.4	3632.8	4155.6	4964.1
30°	5300.0	5247.9	4926.3	3999.3	3508.8	3269.8	3248.3	3327.3	3553.7	4042.4	5032.3
32.5°	5461.7	5389.8	4967.6	3965.1	3559.1	3438.7	3467.5	3472.9	3575.3	4010.0	5134.7
35°	5693.5	5600.1	5080.8	4063.9	4076.5	4279.5	4383.7	4243.6	3900.5	4081.9	5328.8
37.5°	6043.8	5925.2	5310.8	4491.5	5145.5	5600.1	5851.6	5531.8	4888.6	4353.2	5621.6
40°	6469.6	6318.7	5605.4	5282.1	6144.4	6872.1	7319.4	6850.5	5905.5	5030.5	6033.0
42.5°	7064.3	6906.2	6176.8	6058.2	7069.7	8153.0	8736.9	8038.1	6802.0	5905.5	6692.4
45°	8100.9	7948.2	7224.2	6836.1	8153.0	9730.5	10549.7	9577.8	7712.9	6784.0	7924.9
47.5°	10016.1	9836.5	8780.1	7698.5	9389.1	11778.6	12924.9	11509.1	8659.7	7790.1	9994.6
50°	12315.8	12143.3	10733.0	8719.0	10754.5	13968.7	15562.3	13778.3	9750.2	9013.6	12468.5
52.5°	15082.6	15050.3	13519.5	10009.0	12175.7	16304.3	18489.0	16291.7	10945.0	10661.1	15271.2
55°	17576.3	17892.5	17058.9	11976.2	14011.8	19238.2	21498.3	19033.4	12565.5	13384.8	18553.7
57.5°	18920.2	19770.0	21051.0	15989.9	16681.6	22745.2	25211.9	22380.5	15350.3	17919.5	21597.1
60°	18032.6	18995.6	21316.9	19011.8	19329.8	25555.1	28276.9	25194.0	18084.7	21067.1	21424.7
62.5°	16555.8	17420.0	19484.3	17247.5	19739.4	26173.1	28348.8	25684.4	19171.7	19469.9	19353.2
65°	14804.1	15675.5	17862.0	15055.6	18436.9	24705.3	26257.6	24241.7	17218.8	17590.7	17633.8
67.5°	12477.5	13282.4	15508.4	13386.6	16805.6	22551.1	23047.0	22186.4	15856.9	16449.8	15830.0
70°	9322.6	10048.5	12014.0	10878.5	14166.3	19744.8	19344.2	19471.7	14328.0	14917.3	13223.1
72.5°	6370.8	6917.0	8602.2	8548.3	10848.0	15806.6	15247.9	16457.0	11967.3	12748.8	10080.8
75°	4455.6	4881.4	6218.1	6753.5	8199.8	11715.7	10858.8	12317.6	9346.0	10461.7	7355.3
77.5°	2734.5	3016.5	3927.4	5003.6	5274.9	8018.3	6744.5	9268.7	6563.0	7630.2	4906.6
80°	1367.2	1503.8	1908.0	3145.9	3498.0	4725.1	3724.4	5380.9	4441.2	4725.1	2714.7
82.5°	413.2	456.3	558.7	1194.8	1812.8	2720.1	2200.9	3126.1	2425.4	2215.2	1069.0
85°	109.6	124.0	154.5	353.9	636.0	975.6	743.8	1514.5	1162.4	817.5	402.4
87.5°	9.0	9.0	7.2	7.2	3.6	0.0	0.0	107.8	217.4	124.0	70.1
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°	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5
2.5°	3429.7	3422.6	3348.9	3295.0	3232.1	3171.0	3108.1	3052.5	2989.6	2926.7	2908.7
5°	3706.4	3656.1	3499.8	3368.7	3239.3	3126.1	3027.3	2924.9	2842.2	2761.4	2730.9
7.5°	3950.8	3862.7	3636.4	3436.9	3257.3	3117.1	2971.6	2822.5	2705.7	2590.7	2562.0
10°	4171.7	4055.0	3769.3	3517.8	3318.4	3158.5	2987.8	2788.3	2619.5	2479.3	2441.6
12.5°	4335.2	4207.7	3884.3	3595.0	3368.7	3189.0	3020.1	2844.0	2666.2	2484.7	2443.4
15°	4464.6	4331.6	3979.5	3654.3	3370.5	3138.7	2975.2	2914.1	2858.4	2680.6	2605.1
17.5°	4568.8	4428.7	4062.2	3690.3	3321.9	2986.0	2844.0	2933.9	3075.8	2964.4	2822.5
20°	4664.0	4522.1	4125.0	3715.4	3214.1	2775.8	2696.7	2887.2	3101.0	3097.4	2969.8
22.5°	4768.2	4629.9	4216.7	3729.8	3063.2	2562.0	2608.7	2818.9	2993.2	3045.3	2966.2
25°	4901.2	4779.0	4344.2	3762.1	2892.6	2414.7	2544.0	2730.9	2876.4	2889.0	2842.2
27.5°	5055.7	4964.1	4534.7	3837.6	2727.3	2339.2	2468.6	2606.9	2739.8	2745.2	2689.5
30°	5224.6	5163.5	4710.7	3900.5	2603.3	2315.8	2371.5	2482.9	2567.4	2581.7	2533.2
32.5°	5440.2	5386.3	4867.0	3859.1	2529.6	2310.4	2281.7	2339.2	2409.3	2409.3	2371.5
35°	5736.6	5661.1	5032.3	3701.0	2439.8	2288.9	2186.5	2202.7	2233.2	2238.6	2217.0
37.5°	6157.0	6033.0	5199.4	3388.4	2292.5	2211.6	2076.9	2057.1	2067.9	2082.3	2076.9
40°	6678.0	6475.0	5443.7	3012.9	2116.4	2062.5	1963.7	1926.0	1917.0	1945.7	1956.5
42.5°	7333.8	7023.0	5706.1	2662.6	1956.5	1891.8	1830.8	1798.4	1784.0	1832.5	1861.3
45°	8381.2	7869.2	5957.6	2315.8	1866.7	1746.3	1705.0	1681.6	1688.8	1746.3	1782.2
47.5°	10190.4	9160.9	6196.5	2096.7	1859.5	1642.1	1591.8	1597.2	1617.0	1678.0	1721.2
50°	12479.3	10891.1	6356.4	2005.0	1881.1	1579.2	1512.8	1541.5	1572.0	1631.3	1681.6
52.5°	14809.5	12502.7	6166.0	1954.7	1879.3	1581.0	1439.1	1525.3	1539.7	1599.0	1652.9
55°	16412.1	12682.3	5327.0	1877.5	1850.5	1652.9	1381.6	1518.1	1527.1	1581.0	1629.5
57.5°	17022.9	12067.9	4062.2	1899.0	1764.3	1708.6	1356.4	1467.8	1532.5	1579.2	1629.5
60°	16284.5	10909.1	2468.6	1954.7	1625.9	1705.0	1372.6	1376.2	1487.6	1566.6	1617.0
62.5°	14892.2	9421.5	1733.7	1796.6	1525.3	1609.8	1410.3	1268.4	1408.5	1503.8	1548.7
65°	13296.8	7671.6	1322.3	1546.9	1476.8	1462.4	1422.9	1173.2	1300.8	1394.2	1433.7
67.5°	11634.9	5963.0	1074.4	1153.4	1334.9	1322.3	1300.8	1088.7	1173.2	1239.7	1284.6
70°	9541.8	4171.7	907.3	866.0	1144.4	1185.8	1137.3	982.7	1009.7	1078.0	1113.9
72.5°	6979.9	2599.7	745.6	715.1	919.9	1036.6	1011.5	866.0	878.5	943.2	972.0
75°	5019.7	1487.6	598.3	589.3	702.5	887.5	837.2	745.6	760.0	808.5	828.2
77.5°	3190.8	828.2	461.7	474.3	503.1	663.0	715.1	637.8	637.8	666.5	682.7
80°	1708.6	474.3	337.8	343.2	352.1	506.6	564.1	494.1	494.1	474.3	494.1
82.5°	697.1	273.1	231.8	215.6	235.4	346.7	395.3	314.4	328.8	296.4	303.6
85°	230.0	136.5	115.0	113.2	111.4	152.7	190.4	156.3	186.8	118.6	124.0
87.5°	30.5	25.2	14.4	10.8	12.6	5.4	10.8	12.6	12.6	9.0	9.0
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°	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5
2.5°	2896.1	2881.8	2829.7	2842.2	2833.3	2818.9	2833.3	2806.3	2827.9	2835.1	2880.0
5°	2707.5	2673.4	2623.1	2597.9	2592.5	2578.1	2579.9	2567.4	2571.0	2601.5	2651.8
7.5°	2538.6	2506.3	2466.8	2448.8	2432.6	2416.4	2414.7	2412.9	2427.2	2454.2	2502.7
10°	2416.4	2398.5	2382.3	2389.5	2382.3	2375.1	2362.6	2362.6	2385.9	2434.4	2493.7
12.5°	2416.4	2412.9	2416.4	2438.0	2436.2	2438.0	2421.8	2430.8	2495.5	2578.1	2662.6
15°	2545.8	2517.1	2517.1	2527.8	2524.2	2524.2	2524.2	2562.0	2709.3	2836.9	2926.7
17.5°	2703.9	2619.5	2583.5	2578.1	2576.3	2576.3	2583.5	2664.4	2894.3	3029.1	3081.2
20°	2813.5	2653.6	2594.3	2571.0	2572.8	2576.3	2597.9	2709.3	2962.6	3030.9	3018.3
22.5°	2833.3	2626.7	2554.8	2520.7	2526.0	2529.6	2562.0	2680.6	2869.2	2880.0	2854.8
25°	2741.6	2551.2	2473.9	2447.0	2454.2	2452.4	2481.1	2567.4	2702.1	2698.5	2684.1
27.5°	2605.1	2430.8	2373.3	2355.4	2367.9	2353.6	2362.6	2429.0	2533.2	2529.6	2524.2
30°	2465.0	2314.0	2261.9	2253.0	2269.1	2247.6	2249.4	2305.1	2376.9	2373.3	2371.5
32.5°	2324.8	2197.3	2150.6	2150.6	2166.7	2143.4	2147.0	2195.5	2244.0	2229.6	2229.6
35°	2191.9	2102.0	2064.3	2057.1	2069.7	2053.5	2060.7	2105.6	2123.6	2103.8	2091.3
37.5°	2075.1	2035.6	1997.8	1972.7	1974.5	1976.3	1997.8	2032.0	2021.2	1992.4	1976.3
40°	1967.3	1967.3	1931.4	1884.7	1879.3	1891.8	1927.8	1965.5	1935.0	1902.6	1882.9
42.5°	1890.0	1906.2	1872.1	1825.4	1814.6	1836.1	1875.7	1902.6	1866.7	1830.8	1803.8
45°	1818.2	1857.7	1834.3	1782.2	1767.9	1793.0	1843.3	1854.1	1805.6	1771.5	1751.7
47.5°	1767.9	1821.8	1805.6	1755.3	1733.7	1769.7	1821.8	1820.0	1758.9	1723.0	1706.8
50°	1731.9	1800.2	1798.4	1755.3	1731.9	1776.9	1823.6	1800.2	1733.7	1696.0	1679.8
52.5°	1703.2	1798.4	1811.0	1785.8	1769.7	1809.2	1837.9	1793.0	1715.8	1676.2	1663.7
55°	1690.6	1805.6	1814.6	1791.2	1776.9	1812.8	1837.9	1807.4	1715.8	1679.8	1669.1
57.5°	1694.2	1796.6	1798.4	1766.1	1740.9	1785.8	1825.4	1816.4	1735.5	1694.2	1681.6
60°	1672.7	1748.1	1751.7	1701.4	1672.7	1726.5	1796.6	1791.2	1726.5	1683.4	1660.1
62.5°	1600.8	1667.3	1669.1	1622.3	1581.0	1658.3	1735.5	1733.7	1674.4	1631.3	1604.4
65°	1480.4	1550.5	1568.4	1523.5	1491.2	1573.8	1654.7	1651.1	1591.8	1552.3	1525.3
67.5°	1331.3	1406.8	1440.9	1410.3	1397.8	1473.2	1548.7	1546.9	1498.4	1460.6	1437.3
70°	1149.8	1212.7	1270.2	1270.2	1261.2	1347.5	1428.3	1421.1	1376.2	1347.5	1329.5
72.5°	998.9	1047.4	1065.4	1083.4	1110.3	1200.1	1268.4	1273.8	1241.5	1227.1	1241.5
75°	849.8	880.3	896.5	882.1	928.9	1022.3	1112.1	1121.1	1087.0	1063.6	1069.0
77.5°	698.9	733.0	749.2	716.9	713.3	831.8	941.4	961.2	932.4	896.5	907.3
80°	504.8	549.8	576.7	555.2	548.0	600.1	751.0	772.5	745.6	716.9	733.0
82.5°	309.0	334.2	341.4	362.9	407.8	429.4	483.3	555.2	535.4	510.2	555.2
85°	122.2	145.5	161.7	183.3	213.8	253.3	298.2	355.7	323.4	312.6	368.3
87.5°	7.2	1.8	0.0	3.6	30.5	59.3	127.6	176.1	147.3	158.1	190.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5	3149.5
2.5°	2915.9	2962.6	3025.5	3077.6	3144.1	3207.0	3271.6	3336.3	3370.5	3384.8
5°	2709.3	2795.5	2896.1	3007.5	3136.9	3273.4	3411.8	3553.7	3643.5	3650.7
7.5°	2585.3	2709.3	2847.6	2987.8	3147.7	3336.3	3555.5	3774.7	3866.3	3891.5
10°	2624.9	2763.2	2872.8	3003.9	3180.0	3415.4	3674.1	3931.0	4037.0	4067.5
12.5°	2783.0	2809.9	2844.0	2964.4	3180.0	3483.6	3796.3	4101.7	4214.9	4243.6
15°	2914.1	2784.8	2723.7	2851.2	3136.9	3542.9	3925.6	4263.4	4399.9	4426.9
17.5°	2924.9	2702.1	2569.2	2684.1	3061.4	3584.3	4049.6	4443.0	4558.0	4583.2
20°	2815.3	2614.1	2441.6	2511.7	2959.0	3602.2	4139.4	4574.2	4687.4	4712.5
22.5°	2691.3	2542.2	2355.4	2351.8	2835.1	3622.0	4247.2	4698.2	4820.3	4836.5
25°	2574.6	2443.4	2285.3	2235.0	2691.3	3659.7	4392.7	4885.0	4978.4	4983.8
27.5°	2438.0	2337.4	2229.6	2181.1	2565.6	3731.6	4608.3	5107.8	5163.5	5154.5
30°	2314.0	2238.6	2190.1	2175.7	2486.5	3785.5	4813.1	5327.0	5330.6	5300.0
32.5°	2182.9	2154.1	2154.1	2200.9	2421.8	3772.9	4980.2	5540.8	5506.6	5461.7
35°	2066.1	2071.5	2109.2	2218.8	2314.0	3647.1	5140.1	5808.5	5758.2	5693.5
37.5°	1954.7	1996.0	2049.9	2155.9	2172.1	3460.3	5327.0	6187.5	6124.7	6043.8
40°	1859.5	1922.4	1985.3	2037.4	2021.2	3194.4	5587.5	6633.1	6563.0	6469.6
42.5°	1784.0	1845.1	1915.2	1920.6	1926.0	2917.7	5864.2	7179.3	7166.7	7064.3
45°	1735.5	1775.1	1841.5	1832.5	1920.6	2612.3	6119.3	8012.9	8178.2	8100.9
47.5°	1703.2	1733.7	1740.9	1778.7	1967.3	2339.2	6448.1	9644.2	10104.2	10016.1
50°	1685.2	1715.8	1634.9	1782.2	1974.5	2163.1	6902.6	11692.4	12432.6	12315.8
52.5°	1683.4	1676.2	1554.1	1820.0	1935.0	2055.3	7139.8	13187.2	14829.3	15082.6
55°	1687.0	1597.2	1512.8	1830.8	1855.9	2015.8	6345.6	13905.8	17040.9	17576.3
57.5°	1654.7	1511.0	1536.1	1787.6	1706.8	2121.8	4691.0	13648.9	17924.8	18920.2
60°	1593.6	1428.3	1579.2	1670.9	1554.1	1940.3	3230.3	12502.7	17008.6	18032.6
62.5°	1505.6	1370.8	1573.8	1519.9	1498.4	1588.2	2220.6	10898.3	15555.1	16555.8
65°	1406.8	1324.1	1489.4	1374.4	1387.0	1221.7	1570.2	9087.3	13819.6	14804.1
67.5°	1300.8	1295.4	1365.4	1223.5	1171.4	968.4	1144.4	7283.5	11590.0	12477.5
70°	1180.4	1219.9	1241.5	1087.0	950.4	760.0	849.8	5093.4	8550.1	9322.6
72.5°	1060.0	1063.6	1094.1	945.0	711.5	609.1	637.8	3084.8	5808.5	6370.8
75°	937.8	903.7	932.4	769.0	530.0	499.5	492.3	1906.2	4011.8	4455.6
77.5°	806.7	769.0	731.2	578.5	425.8	386.3	377.3	1069.0	2461.4	2734.5
80°	655.8	605.5	546.2	424.0	310.8	276.7	274.9	521.0	1227.1	1367.2
82.5°	510.2	415.0	398.8	264.1	192.2	168.9	179.7	199.4	370.1	413.2
85°	357.5	301.8	212.0	106.0	86.2	70.1	68.3	59.3	98.8	109.6
87.5°	199.4	131.2	68.3	12.6	14.4	16.2	12.6	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)