

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: P637659

Luminaire Tested: GWS-SA4D-730-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17447.4 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

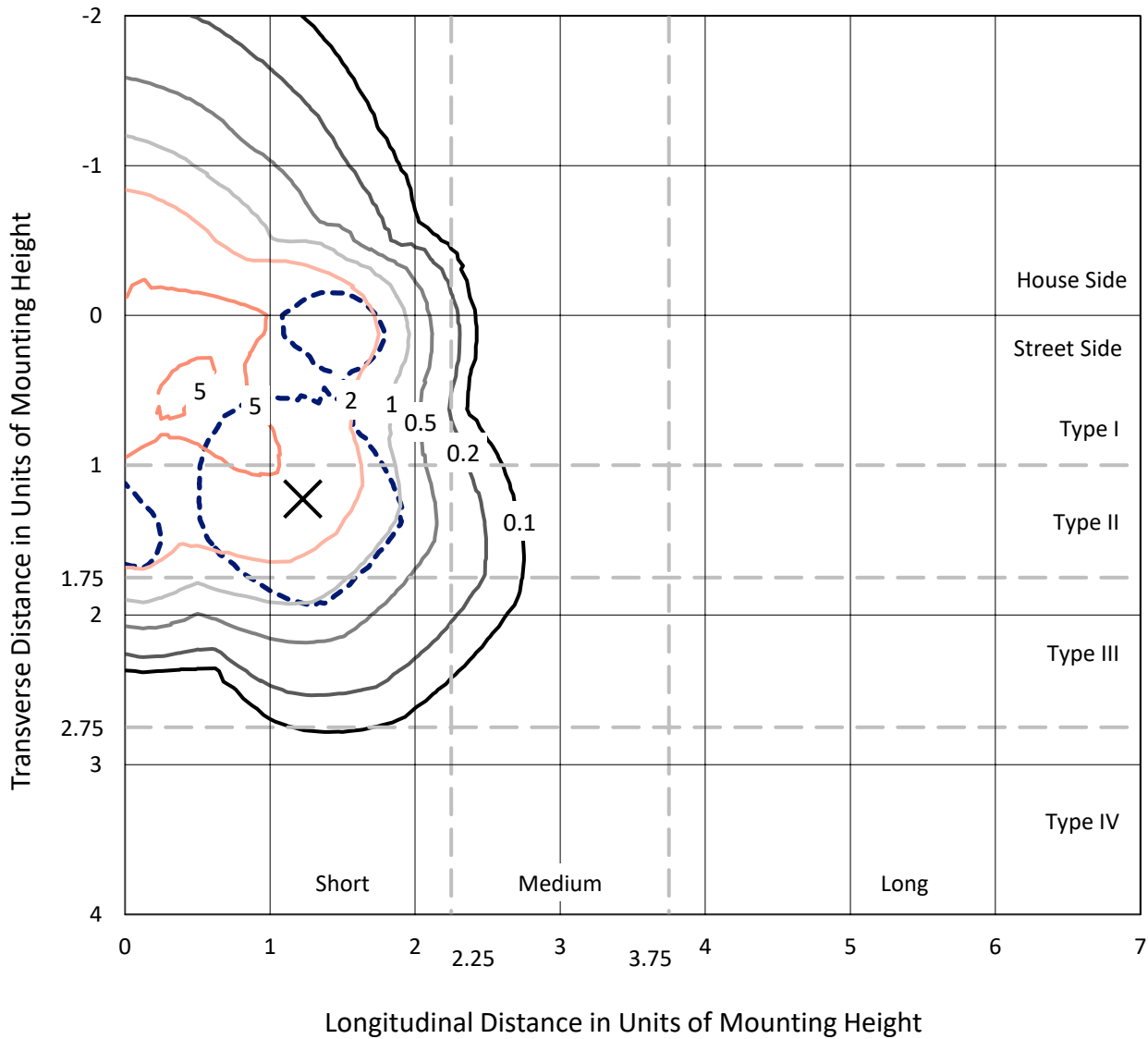
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

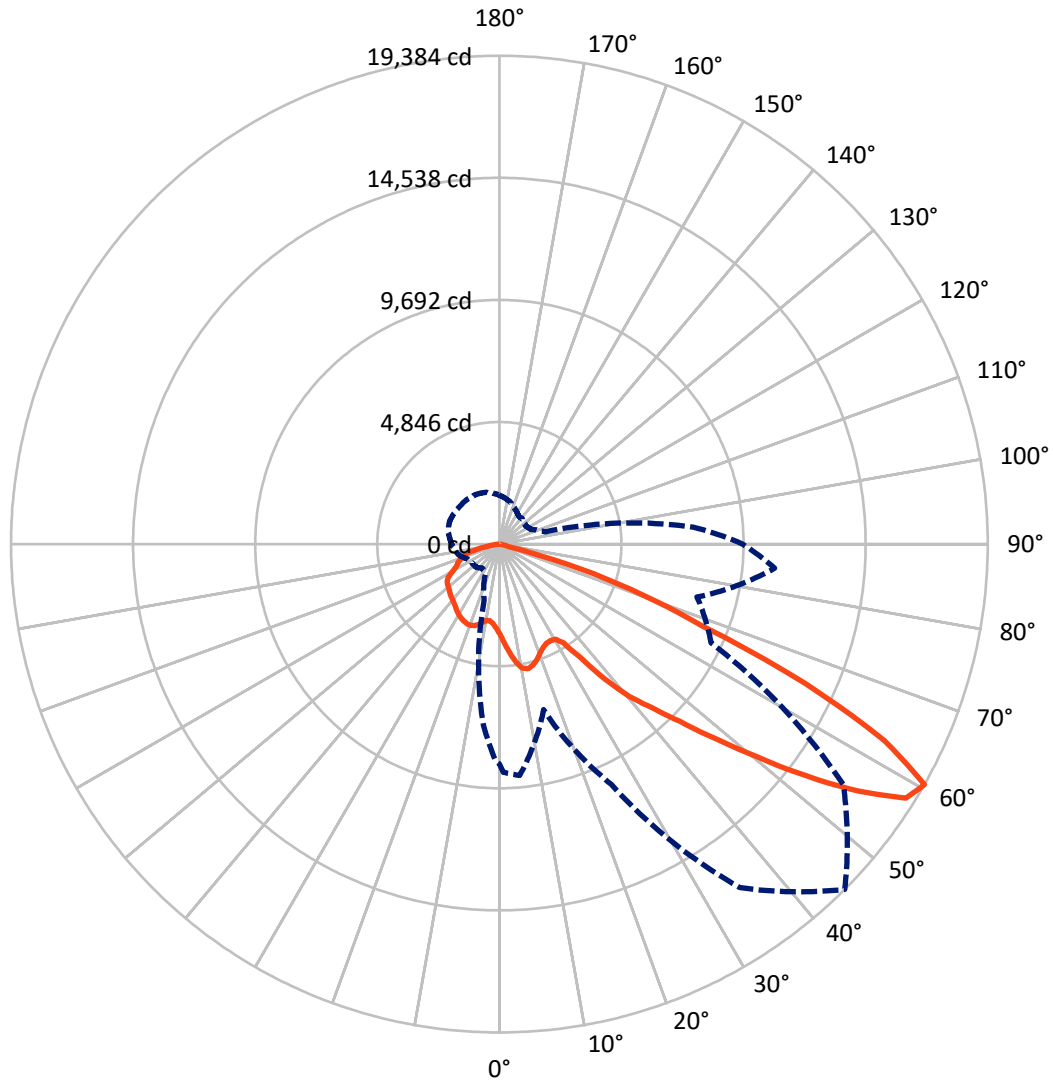
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6115.9	0.0	6115.9
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	11331.5	0.0	11331.5
	% Fixture	64.9	0.0	64.9
Total	Lumens	17447.4	0.0	17447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	2.0
10°-20°	1105.0	6.3
20°-30°	1795.0	10.3
30°-40°	2531.5	14.5
40°-50°	3498.5	20.1
50°-60°	4503.6	25.8
60°-70°	2853.5	16.4
70°-80°	732.2	4.2
80°-90°	78.3	0.4
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°	17447.4	100.0
0°-180°	17447.4	100.0

Coefficient of Utilization



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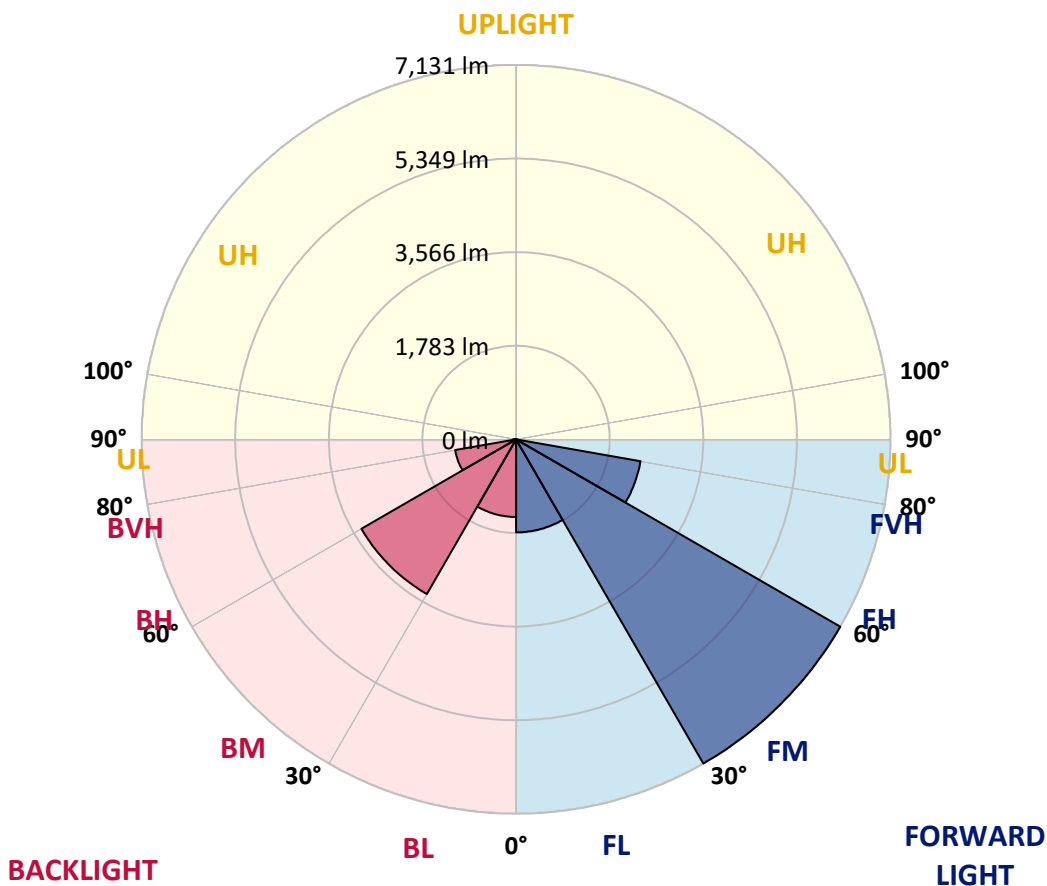
CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.6	10.2			
FM (30°-60°)	7131.5	40.9			
FH (60°-80°)	2407.1	13.8			G2/5000
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	1478.2	8.5	B3/2500		
BM (30°-60°)	3402.1	19.5	B3/5000		
BH (60°-80°)	1178.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	57.0	0.3			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°	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2
2.5°	3748.9	3774.4	3790.4	3820.8	3875.2	3905.5	3939.1	3902.3	3911.9	3907.1	3848.0
5°	3971.1	4001.5	4043.0	4132.5	4233.3	4289.2	4342.0	4334.0	4284.4	4201.3	4142.1
7.5°	4178.9	4214.1	4286.0	4431.5	4580.2	4666.5	4730.5	4688.9	4647.3	4516.2	4367.6
10°	4342.0	4362.8	4460.3	4655.3	4828.0	4925.5	5003.8	4994.2	4936.7	4789.6	4589.8
12.5°	4495.4	4509.8	4615.3	4810.4	4965.5	5008.6	5072.6	5093.3	5074.2	4963.9	4767.2
15°	4660.1	4687.3	4784.8	4933.5	5003.8	4959.1	4981.4	5039.0	5093.3	5093.3	4912.7
17.5°	4813.6	4837.6	4936.7	5000.6	4933.5	4815.2	4821.6	4895.1	5024.6	5160.5	5045.4
20°	4949.5	4971.8	5069.4	5008.6	4796.0	4623.3	4618.5	4708.1	4917.5	5203.7	5187.7
22.5°	5098.1	5130.1	5211.6	5015.0	4668.1	4449.1	4447.5	4540.2	4823.2	5246.8	5350.7
25°	5309.2	5358.7	5400.3	5071.0	4599.4	4335.6	4356.4	4444.3	4792.8	5317.2	5592.1
27.5°	5622.5	5662.5	5659.3	5187.7	4596.2	4289.2	4332.4	4434.7	4847.2	5441.9	5846.3
30°	5961.4	5982.2	5948.6	5350.7	4669.7	4318.0	4381.9	4503.4	4984.6	5648.1	6220.4
32.5°	6337.1	6362.7	6298.7	5595.3	4840.8	4530.6	4671.3	4730.5	5178.1	5945.4	6616.9
35°	6768.7	6818.3	6685.6	5918.3	5344.3	5306.0	5510.6	5433.9	5588.9	6297.1	7040.5
37.5°	7222.8	7224.4	7034.1	6396.3	6332.3	6397.9	6807.1	6567.3	6460.2	6688.8	7472.2
40°	7608.0	7598.5	7305.9	7040.5	7192.4	7453.0	7947.0	7579.3	7297.9	7214.8	7830.3
42.5°	7993.3	7958.2	7662.4	7449.8	7785.5	8321.1	8879.0	8428.2	7835.1	7692.8	8183.6
45°	8485.7	8474.5	8118.0	7612.8	8321.1	9293.0	10033.2	9302.6	8153.2	7970.9	8771.9
47.5°	9280.3	9225.9	8562.5	7600.1	8823.0	10588.0	11523.2	10404.1	8375.4	7977.3	9721.5
50°	10057.2	9990.1	9093.2	7598.5	9341.0	11930.8	13281.7	11742.2	8602.4	8015.7	10687.1
52.5°	10842.1	10842.1	9964.5	7779.1	9884.5	13430.4	15313.6	13409.6	8989.3	8517.7	11874.9
55°	11309.0	11433.7	10944.5	8084.4	10520.8	15195.3	17323.1	15209.7	9587.2	9424.1	12971.6
57.5°	10715.9	10949.3	10878.9	7871.8	10896.5	16491.8	19027.3	16575.0	9882.9	9531.2	12806.9
60°	8731.9	9056.4	9217.9	6797.5	10525.6	16642.1	19383.8	16664.5	9272.3	8116.4	10970.0
62.5°	5804.8	6071.7	6317.9	4856.7	9112.4	14971.5	17144.1	14976.3	7743.9	6057.3	7600.1
65°	2847.2	3045.5	3310.8	2871.2	7118.9	12509.6	13366.4	12101.9	5601.7	3390.8	3876.8
67.5°	745.0	800.9	837.7	1114.3	5099.7	8987.7	8717.5	8851.8	3598.6	1107.9	1013.6
70°	386.9	390.1	388.5	460.4	3446.7	5712.0	6007.8	5558.6	2511.5	463.6	399.7
72.5°	276.6	278.2	273.4	310.1	1664.2	3272.5	3390.8	3354.0	1315.7	275.0	273.4
75°	180.6	182.2	179.1	182.2	251.0	372.5	343.7	361.3	219.0	174.3	174.3
77.5°	107.1	108.7	107.1	110.3	107.1	107.1	99.1	99.1	94.3	94.3	95.9
80°	71.9	71.9	70.3	73.5	67.1	67.1	63.9	62.3	57.6	56.0	56.0
82.5°	43.2	44.8	43.2	43.2	40.0	40.0	36.8	35.2	30.4	30.4	28.8
85°	22.4	22.4	20.8	20.8	17.6	16.0	12.8	12.8	9.6	8.0	8.0
87.5°	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2
2.5°	3832.0	3800.0	3752.1	3705.7	3662.5	3617.8	3566.6	3513.9	3469.1	3422.7	3398.8
5°	4063.8	3998.3	3873.6	3763.3	3664.1	3582.6	3494.7	3419.5	3349.2	3291.7	3262.9
7.5°	4273.2	4170.9	3982.3	3808.0	3673.7	3561.8	3440.3	3328.4	3234.1	3163.8	3136.6
10°	4466.7	4345.2	4097.4	3876.8	3720.1	3595.4	3446.7	3294.8	3170.2	3077.4	3055.0
12.5°	4623.3	4484.3	4188.5	3932.7	3747.3	3613.0	3481.9	3350.8	3227.7	3107.8	3088.6
15°	4762.4	4597.8	4257.2	3967.9	3737.7	3566.6	3456.3	3440.3	3440.3	3304.4	3266.1
17.5°	4882.3	4701.7	4313.2	3983.9	3676.9	3429.1	3362.0	3501.1	3657.7	3560.2	3473.9
20°	5019.8	4800.8	4359.6	3983.9	3565.0	3254.9	3248.5	3485.1	3716.9	3718.5	3627.4
22.5°	5158.9	4915.9	4413.9	3969.5	3411.6	3053.5	3171.8	3421.1	3627.4	3715.3	3652.9
25°	5384.3	5075.8	4500.2	3958.3	3232.5	2916.0	3103.0	3336.4	3510.7	3603.4	3563.4
27.5°	5670.5	5286.8	4631.3	3975.9	3055.0	2834.4	3029.5	3226.1	3384.4	3465.9	3437.1
30°	5990.2	5529.8	4772.0	4006.3	2927.2	2792.9	2941.5	3099.8	3240.5	3322.0	3309.2
32.5°	6397.9	5793.6	4893.5	3964.7	2855.2	2772.1	2848.8	2962.3	3098.2	3149.4	3160.6
35°	6885.5	6084.5	4986.2	3801.6	2789.7	2749.7	2748.1	2818.4	2914.4	2995.9	3003.9
37.5°	7334.7	6425.0	5088.6	3521.9	2671.4	2693.8	2629.8	2671.4	2765.7	2847.2	2879.2
40°	7779.1	6770.3	5230.8	3165.4	2516.3	2569.1	2493.9	2522.7	2597.8	2704.9	2756.1
42.5°	8210.7	7082.1	5381.1	2800.9	2361.2	2394.8	2338.8	2367.6	2446.0	2580.2	2637.8
45°	8680.8	7504.1	5497.8	2457.1	2226.9	2212.6	2167.8	2209.4	2327.7	2474.7	2543.5
47.5°	9569.6	8169.2	5574.5	2228.5	2155.0	2051.1	1999.9	2089.5	2223.7	2372.4	2455.5
50°	10655.1	9131.6	5552.2	2083.1	2092.7	1884.8	1867.2	1985.5	2129.4	2284.5	2375.6
52.5°	11515.2	10076.4	5298.0	1944.0	1971.2	1779.3	1728.2	1900.8	2038.3	2196.6	2290.9
55°	12172.2	10394.5	4517.8	1779.3	1772.9	1702.6	1595.5	1812.9	1947.2	2094.3	2196.6
57.5°	11636.7	9686.3	3349.2	1552.3	1513.9	1550.7	1446.8	1664.2	1835.3	1980.7	2071.9
60°	9657.5	7723.2	1865.6	1374.9	1266.1	1355.7	1339.7	1507.5	1713.8	1867.2	1945.6
62.5°	6556.1	5142.9	1106.3	1087.1	1026.3	1154.2	1239.0	1349.3	1552.3	1677.0	1750.5
65°	3267.7	2498.7	735.4	813.7	821.7	949.6	1109.5	1231.0	1400.4	1528.3	1601.9
67.5°	948.0	777.0	559.5	621.9	708.2	810.5	938.4	1082.3	1247.0	1398.8	1485.2
70°	409.3	414.1	444.4	518.0	602.7	708.2	836.1	976.8	1115.9	1232.6	1298.1
72.5°	289.4	300.5	334.1	409.3	489.2	589.9	717.8	853.7	954.4	1072.7	1141.4
75°	185.4	193.4	220.6	278.2	337.3	434.8	556.3	681.0	784.9	869.7	935.2
77.5°	102.3	103.9	126.3	159.9	199.8	262.2	351.7	449.2	526.0	573.9	633.1
80°	59.2	59.2	70.3	91.1	115.1	153.5	203.0	251.0	297.4	327.7	356.5
82.5°	32.0	32.0	36.8	49.6	62.3	84.7	113.5	137.5	166.3	182.2	201.4
85°	9.6	9.6	12.8	17.6	22.4	32.0	44.8	57.6	70.3	81.5	92.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2
2.5°	3394.0	3371.6	3358.8	3342.8	3347.6	3333.2	3325.2	3330.0	3301.2	3330.0	3358.8
5°	3251.7	3219.7	3194.1	3173.4	3163.8	3144.6	3133.4	3133.4	3115.8	3144.6	3179.7
7.5°	3127.0	3101.4	3088.6	3075.8	3061.4	3043.9	3024.7	3018.3	3007.1	3037.5	3067.8
10°	3043.9	3047.1	3055.0	3072.6	3069.4	3058.2	3029.5	3013.5	3013.5	3048.7	3095.0
12.5°	3082.2	3115.8	3135.0	3167.0	3173.4	3163.8	3135.0	3122.2	3154.2	3206.9	3283.7
15°	3230.9	3253.3	3269.3	3294.8	3293.3	3285.3	3262.9	3272.5	3378.0	3480.3	3549.0
17.5°	3392.4	3366.8	3363.6	3379.6	3384.4	3374.8	3362.0	3405.2	3579.4	3675.3	3710.5
20°	3509.1	3421.1	3402.0	3408.4	3421.1	3416.3	3416.3	3486.7	3667.3	3712.1	3667.3
22.5°	3544.2	3419.5	3390.8	3392.4	3410.0	3411.6	3419.5	3493.1	3598.6	3600.2	3531.5
25°	3488.3	3368.4	3347.6	3350.8	3371.6	3370.0	3373.2	3414.7	3461.1	3441.9	3390.8
27.5°	3382.8	3278.9	3272.5	3290.1	3317.2	3302.8	3293.3	3304.4	3326.8	3302.8	3258.1
30°	3262.9	3174.9	3178.1	3211.7	3240.5	3216.5	3192.5	3198.9	3200.5	3174.9	3123.8
32.5°	3136.6	3071.0	3082.2	3117.4	3151.0	3125.4	3099.8	3096.6	3066.2	3035.9	2986.3
35°	3010.3	2984.7	2999.1	3027.9	3056.6	3035.9	3019.9	3010.3	2944.7	2900.0	2858.4
37.5°	2895.2	2914.4	2939.9	2957.5	2967.1	2965.5	2955.9	2933.6	2847.2	2794.5	2740.1
40°	2792.9	2852.0	2879.2	2887.2	2901.6	2898.4	2896.8	2864.8	2751.3	2695.3	2633.0
42.5°	2700.1	2783.3	2829.6	2837.6	2845.6	2847.2	2842.4	2796.1	2666.6	2601.0	2541.9
45°	2610.6	2719.3	2778.5	2770.5	2781.7	2781.7	2786.5	2725.7	2583.4	2516.3	2454.0
47.5°	2532.3	2660.2	2714.5	2704.9	2711.3	2716.1	2720.9	2650.6	2492.3	2428.4	2364.4
50°	2460.3	2596.2	2642.6	2645.8	2645.8	2657.0	2655.4	2586.6	2415.6	2346.8	2282.9
52.5°	2383.6	2530.7	2580.2	2601.0	2607.4	2612.2	2589.8	2509.9	2337.2	2254.1	2195.0
55°	2294.1	2463.5	2508.3	2535.5	2548.3	2545.1	2514.7	2433.2	2257.3	2174.2	2107.0
57.5°	2158.2	2319.7	2383.6	2396.4	2417.2	2404.4	2369.2	2300.5	2129.4	2046.3	1977.5
60°	2009.5	2126.2	2177.4	2188.6	2172.6	2177.4	2172.6	2107.0	1958.4	1892.8	1822.5
62.5°	1814.5	1918.4	1972.8	1987.1	1960.0	1977.5	1971.2	1889.6	1740.9	1672.2	1609.9
65°	1667.4	1780.9	1844.9	1852.9	1844.9	1852.9	1830.5	1731.4	1590.7	1520.3	1456.4
67.5°	1552.3	1669.0	1736.2	1758.5	1750.5	1748.9	1713.8	1598.7	1453.2	1376.5	1294.9
70°	1354.1	1456.4	1542.7	1597.1	1597.1	1566.7	1499.5	1392.4	1275.7	1210.2	1146.2
72.5°	1199.0	1328.5	1413.2	1469.2	1480.4	1462.8	1368.5	1255.0	1120.7	1055.1	988.0
75°	988.0	1114.3	1205.4	1278.9	1293.3	1274.1	1165.4	1053.5	928.8	864.9	797.7
77.5°	660.2	735.4	808.9	876.1	861.7	874.5	800.9	716.2	639.5	591.5	561.1
80°	372.5	422.0	444.4	481.2	481.2	481.2	433.2	393.3	350.1	322.9	292.6
82.5°	211.0	243.0	252.6	283.0	291.0	292.6	260.6	235.0	207.8	193.4	172.7
85°	97.5	115.1	116.7	134.3	140.7	153.5	139.1	121.5	105.5	99.1	86.3
87.5°	3.2	9.6	12.8	24.0	32.0	36.8	40.0	40.0	33.6	30.4	25.6
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°	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2
2.5°	3394.0	3432.3	3477.1	3509.1	3566.6	3614.6	3664.1	3718.5	3758.5	3748.9
5°	3222.9	3286.9	3368.4	3443.5	3550.6	3659.3	3779.2	3902.3	3974.3	3971.1
7.5°	3127.0	3218.1	3317.2	3417.9	3544.2	3700.9	3884.8	4076.6	4174.1	4178.9
10°	3178.1	3275.7	3342.8	3427.5	3560.2	3756.9	3977.5	4207.7	4319.6	4342.0
12.5°	3339.6	3331.6	3326.8	3387.6	3547.4	3796.8	4067.0	4342.0	4468.3	4495.4
15°	3493.1	3328.4	3229.3	3270.9	3489.9	3822.4	4154.9	4489.1	4631.3	4660.1
17.5°	3521.9	3272.5	3088.6	3117.4	3398.8	3830.4	4239.7	4632.9	4786.4	4813.6
20°	3441.9	3200.5	2986.3	2946.3	3283.7	3809.6	4292.4	4752.8	4920.7	4949.5
22.5°	3341.2	3136.6	2909.6	2805.7	3143.0	3788.8	4351.6	4879.1	5072.6	5098.1
25°	3235.7	3055.0	2837.6	2679.4	2983.1	3776.0	4450.7	5045.4	5278.8	5309.2
27.5°	3123.8	2955.9	2775.3	2618.6	2836.0	3792.0	4591.4	5314.0	5579.3	5622.5
30°	3003.9	2856.8	2735.3	2597.8	2735.3	3806.4	4746.4	5588.9	5900.7	5961.4
32.5°	2879.2	2765.7	2693.8	2607.4	2673.0	3772.8	4882.3	5897.5	6284.4	6337.1
35°	2754.5	2673.0	2641.0	2625.0	2589.8	3649.8	4992.6	6209.2	6722.4	6768.7
37.5°	2637.8	2577.0	2567.5	2585.0	2461.9	3448.3	5120.5	6605.7	7152.4	7222.8
40°	2529.1	2473.1	2471.5	2468.3	2321.3	3173.4	5293.2	7008.5	7576.1	7608.0
42.5°	2428.4	2358.0	2370.8	2332.5	2206.2	2876.0	5456.2	7352.3	7970.9	7993.3
45°	2338.8	2246.1	2260.5	2212.6	2151.8	2564.3	5600.1	7758.3	8471.3	8485.7
47.5°	2252.5	2153.4	2113.4	2110.2	2142.2	2276.5	5740.8	8540.1	9254.7	9280.3
50°	2172.6	2065.5	1952.0	2022.3	2083.1	2060.7	5916.7	9377.8	10063.6	10057.2
52.5°	2095.9	1955.2	1793.7	1929.6	1929.6	1900.8	5867.1	9886.1	10731.8	10842.1
55°	2007.9	1777.7	1629.0	1774.5	1704.2	1756.9	4989.4	10052.4	11152.3	11309.0
57.5°	1833.7	1558.7	1429.2	1507.5	1402.0	1629.0	3584.2	9227.5	10437.7	10715.9
60°	1665.8	1397.2	1312.5	1298.1	1160.6	1328.5	2322.9	7224.4	8591.2	8731.9
62.5°	1469.2	1258.1	1186.2	1075.9	933.6	967.2	1406.8	4754.4	5772.8	5804.8
65°	1320.5	1139.8	1002.4	871.3	764.2	701.8	831.3	2292.5	2885.6	2847.2
67.5°	1133.5	976.8	845.7	751.4	663.4	585.1	553.1	681.0	770.6	745.0
70°	1008.8	858.5	732.2	642.7	561.1	482.8	426.8	401.3	393.3	386.9
72.5°	869.7	738.6	607.5	521.2	444.4	372.5	321.3	291.0	283.0	276.6
75°	693.8	570.7	450.8	369.3	302.1	251.0	217.4	191.8	187.0	180.6
77.5°	458.8	366.1	268.6	219.0	179.1	151.9	129.5	113.5	110.3	107.1
80°	252.6	211.0	164.7	132.7	107.1	92.7	84.7	75.1	73.5	71.9
82.5°	150.3	126.3	94.3	75.1	62.3	56.0	51.2	46.4	44.8	43.2
85°	75.1	59.2	41.6	35.2	32.0	28.8	28.8	24.0	22.4	22.4
87.5°	19.2	16.0	9.6	8.0	8.0	8.0	6.4	4.8	4.8	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)