

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: P640185

Luminaire Tested: GWS-SA5D-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23062.7 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

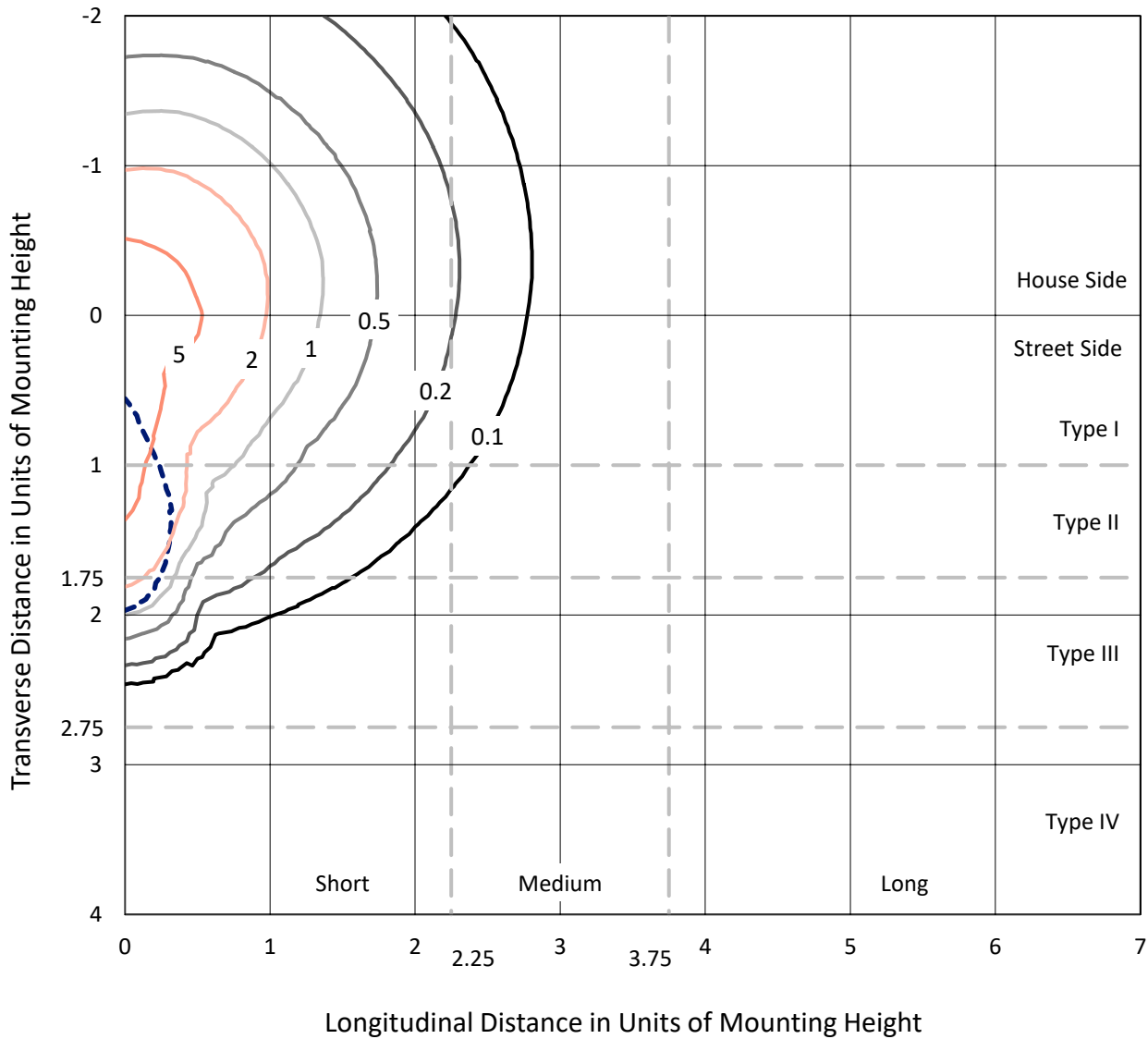
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

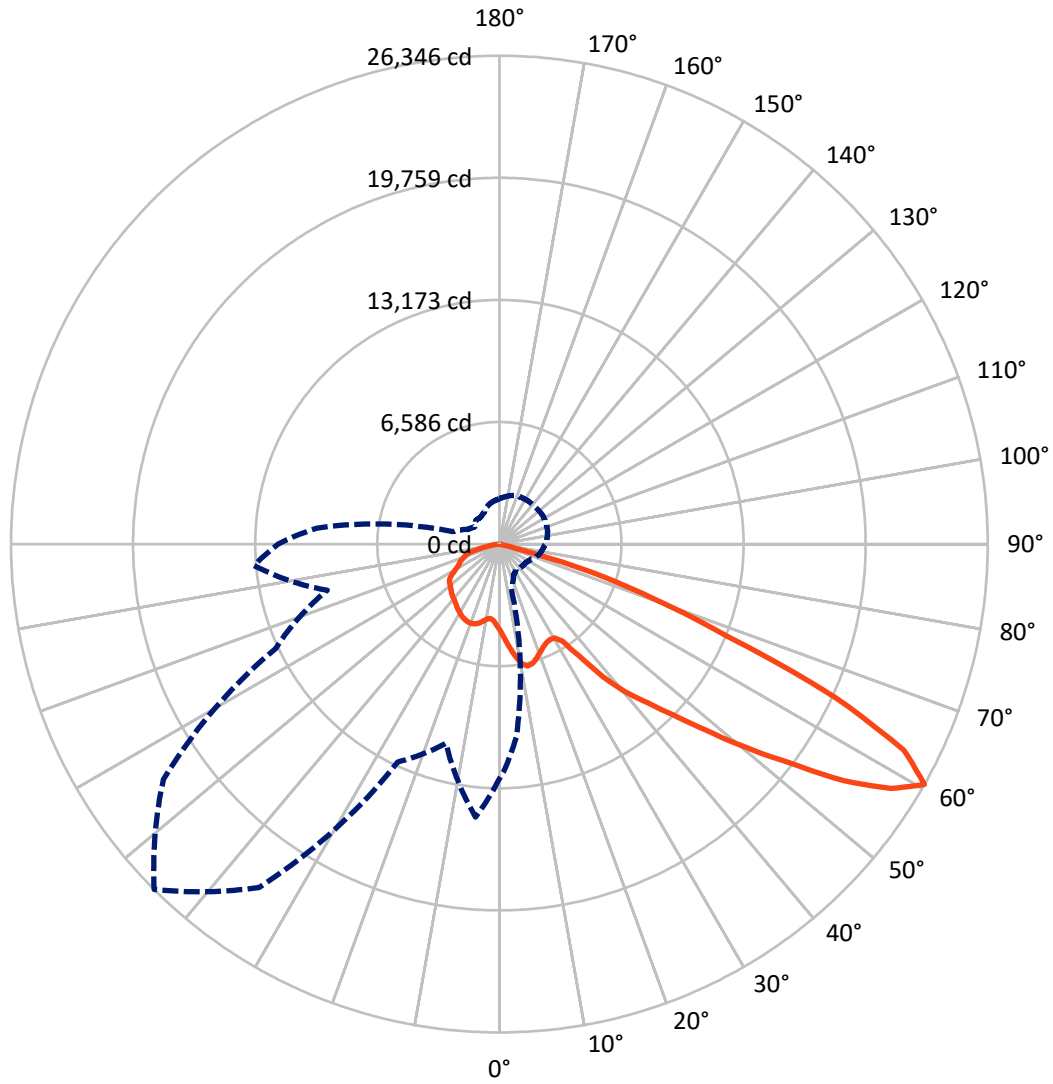
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7889.5	0.0	7889.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	15173.2	0.0	15173.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	23062.7	0.0	23062.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.5	2.0
10°-20°	1457.6	6.3
20°-30°	2373.9	10.3
30°-40°	3334.8	14.5
40°-50°	4563.4	19.8
50°-60°	5854.6	25.4
60°-70°	3942.2	17.1
70°-80°	985.6	4.3
80°-90°	96.1	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°	23062.7	100.0
0°-180°	23062.7	100.0

Coefficient of Utilization



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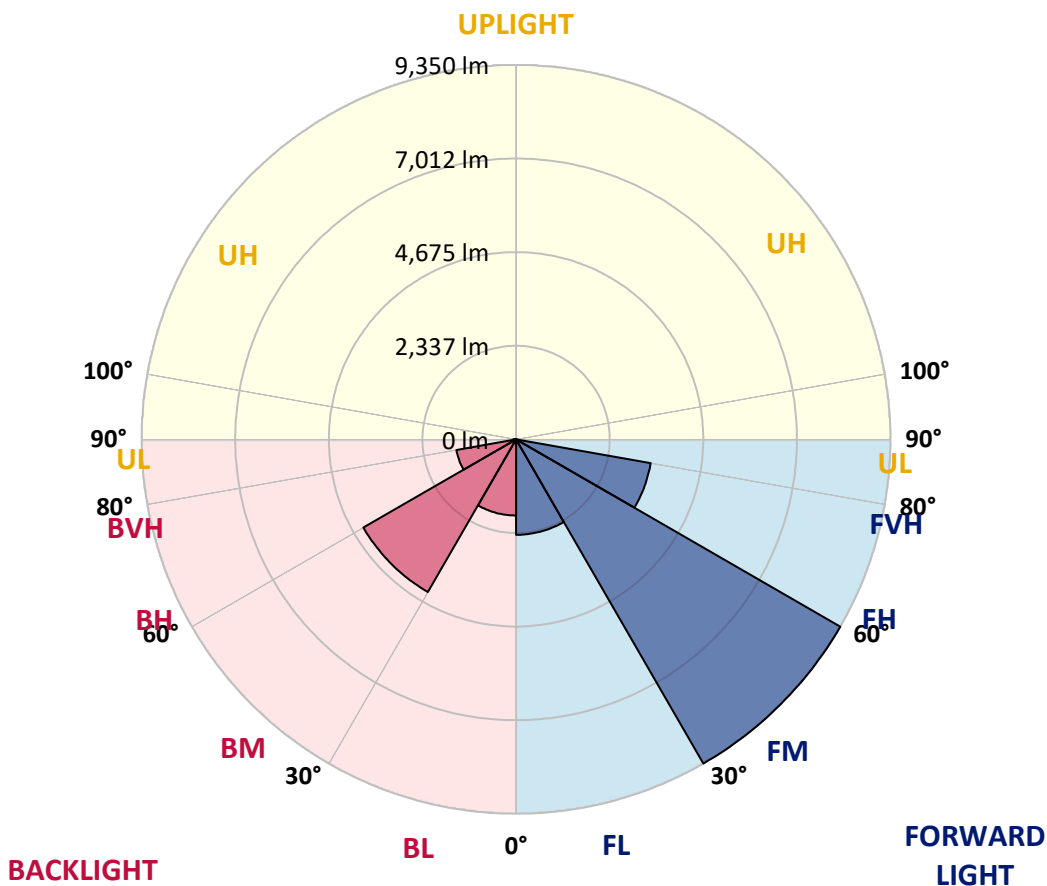
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2384.1	10.3			
FM (30°-60°)	9349.8	40.5			
FH (60°-80°)	3414.2	14.8			G2/5000
FVH (80°-90°)	25.0	0.1			G1/100
BL (0°-30°)	1901.9	8.2	B3/2500		
BM (30°-60°)	4403.0	19.1	B3/5000		
BH (60°-80°)	1513.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	71.1	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°	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5
2.5°	4921.2	4910.6	4900.0	4817.2	4795.9	4736.5	4694.0	4640.9	4564.4	4521.9	4485.8
5°	5229.2	5212.2	5154.9	4985.0	4874.5	4753.5	4653.6	4543.2	4426.4	4349.9	4290.4
7.5°	5520.2	5516.0	5418.3	5137.9	4959.5	4785.3	4649.4	4488.0	4320.2	4205.5	4129.0
10°	5790.0	5758.1	5641.3	5275.9	5042.3	4842.7	4696.1	4517.7	4322.3	4167.2	4065.3
12.5°	6027.8	5987.5	5826.1	5403.4	5114.5	4868.1	4708.8	4562.3	4432.7	4303.2	4186.4
15°	6223.2	6174.4	6010.8	5522.3	5178.2	4853.3	4630.3	4515.6	4560.2	4617.5	4488.0
17.5°	6405.9	6354.9	6155.3	5609.4	5197.4	4761.9	4437.0	4388.1	4613.3	4874.5	4815.0
20°	6558.8	6501.5	6270.0	5651.9	5163.4	4587.8	4186.4	4271.3	4568.7	4880.9	4976.5
22.5°	6724.5	6677.8	6399.5	5713.5	5120.9	4347.8	3976.1	4184.2	4492.2	4766.2	4910.6
25°	6990.0	6932.6	6601.3	5821.8	5099.7	4122.6	3825.3	4099.3	4386.0	4634.5	4747.1
27.5°	7374.4	7268.2	6877.4	6010.8	5123.0	3910.2	3729.7	3995.2	4262.8	4475.2	4566.5
30°	7792.9	7665.4	7183.3	6206.2	5157.0	3780.7	3678.7	3876.3	4073.8	4286.2	4386.0
32.5°	8287.7	8175.2	7510.4	6352.8	5084.8	3721.2	3640.5	3746.7	3903.9	4073.8	4156.6
35°	8878.2	8676.4	7867.2	6471.7	4851.2	3634.1	3606.5	3604.4	3687.2	3852.9	3946.3
37.5°	9513.3	9296.6	8306.9	6599.2	4488.0	3496.1	3525.8	3436.6	3513.1	3644.7	3750.9
40°	10033.6	9806.4	8750.8	6773.4	4033.4	3279.4	3347.4	3251.8	3298.5	3434.5	3553.4
42.5°	10543.4	10301.3	9164.9	6970.9	3593.8	3067.0	3101.0	3064.9	3079.8	3222.1	3387.7
45°	11212.5	10940.6	9674.7	7111.1	3198.7	2899.2	2867.4	2805.8	2884.4	3069.1	3245.4
47.5°	12329.7	12004.7	10509.4	7202.4	2912.0	2803.6	2657.1	2621.0	2718.7	2924.7	3107.4
50°	13635.9	13355.5	11843.3	7198.1	2697.4	2722.9	2453.2	2421.3	2582.8	2790.9	2984.2
52.5°	14706.4	14421.8	12983.8	6985.7	2521.2	2550.9	2334.2	2245.0	2465.9	2659.2	2852.5
55°	15570.8	15250.1	13508.5	6097.9	2298.1	2276.9	2204.7	2041.1	2319.4	2527.5	2708.1
57.5°	15105.7	14723.4	12873.4	4636.6	2068.7	1934.9	1981.7	1860.6	2119.7	2381.0	2555.1
60°	12665.3	12321.2	10458.4	2468.1	1820.2	1616.3	1714.0	1733.2	1901.0	2204.7	2383.1
62.5°	8699.8	8449.2	7087.7	1497.4	1435.8	1297.7	1450.7	1588.7	1714.0	1971.0	2126.1
65°	4256.4	4182.1	3544.9	960.0	1004.6	1049.2	1202.2	1370.0	1554.7	1779.9	1943.4
67.5°	1172.4	1180.9	1074.7	749.8	792.2	915.4	1036.5	1170.3	1355.1	1563.2	1728.9
70°	516.1	524.6	541.6	577.7	658.4	771.0	896.3	1034.4	1204.3	1378.5	1537.8
72.5°	359.0	367.4	392.9	439.7	511.9	618.1	737.0	868.7	1045.0	1191.5	1323.2
75°	220.9	227.3	250.6	291.0	339.8	420.5	537.4	658.4	813.5	947.3	1064.1
77.5°	116.8	112.6	127.4	155.1	197.5	240.0	318.6	395.1	505.5	613.8	711.5
80°	63.7	61.6	70.1	85.0	97.7	131.7	184.8	235.8	299.5	361.1	414.2
82.5°	27.6	25.5	27.6	36.1	44.6	63.7	93.5	129.6	165.7	208.1	242.1
85°	0.0	0.0	0.0	2.1	10.6	17.0	31.9	46.7	68.0	93.5	114.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	19.1
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°	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5
2.5°	4464.6	4411.5	4407.2	4364.8	4369.0	4371.1	4328.7	4311.7	4326.5	4343.5	4335.0
5°	4269.2	4214.0	4190.6	4150.2	4146.0	4126.9	4109.9	4088.6	4103.5	4118.4	4126.9
7.5°	4099.3	4063.2	4048.3	4037.7	4041.9	4033.4	3999.4	3980.3	3978.2	3984.6	3993.1
10°	4044.0	4014.3	4033.4	4063.2	4084.4	4099.3	4063.2	4031.3	4001.6	3988.8	3988.8
12.5°	4163.0	4124.8	4163.0	4194.8	4237.3	4247.9	4207.6	4173.6	4163.0	4175.7	4201.2
15°	4426.4	4337.2	4335.0	4354.1	4388.1	4405.1	4366.9	4349.9	4349.9	4430.6	4494.3
17.5°	4689.7	4543.2	4481.6	4471.0	4492.2	4498.6	4466.7	4451.8	4490.1	4647.3	4766.2
20°	4874.5	4696.1	4562.3	4536.8	4543.2	4545.3	4519.8	4509.2	4564.4	4755.6	4855.4
22.5°	4855.4	4723.7	4560.2	4528.3	4538.9	4534.7	4511.3	4507.1	4551.7	4717.3	4764.1
25°	4723.7	4621.8	4483.7	4462.5	4479.5	4477.3	4454.0	4443.4	4462.5	4572.9	4577.2
27.5°	4572.9	4483.7	4364.8	4358.4	4386.0	4400.9	4360.5	4328.7	4322.3	4396.6	4379.6
30°	4392.4	4326.5	4231.0	4235.2	4286.2	4294.7	4245.8	4199.1	4186.4	4226.7	4203.3
32.5°	4177.9	4156.6	4105.6	4116.3	4165.1	4182.1	4131.1	4082.3	4067.4	4080.2	4031.3
35°	3995.2	3986.7	3990.9	4010.1	4052.5	4065.3	4022.8	3984.6	3963.3	3918.7	3855.0
37.5°	3806.2	3829.5	3891.1	3927.2	3950.6	3946.3	3923.0	3895.4	3861.4	3778.5	3700.0
40°	3629.9	3689.3	3799.8	3840.1	3848.6	3850.8	3833.8	3810.4	3767.9	3657.5	3568.3
42.5°	3493.9	3559.8	3706.3	3767.9	3772.2	3776.4	3759.4	3740.3	3680.8	3534.3	3447.2
45°	3351.6	3438.7	3610.8	3685.1	3680.8	3678.7	3663.9	3655.4	3585.3	3415.3	3319.8
47.5°	3230.6	3332.5	3517.3	3581.0	3578.9	3576.8	3566.2	3566.2	3496.1	3311.3	3203.0
50°	3111.6	3228.4	3421.7	3474.8	3479.1	3474.8	3470.6	3476.9	3394.1	3196.6	3090.4
52.5°	2982.1	3113.7	3315.5	3364.4	3389.9	3400.5	3400.5	3385.6	3287.9	3081.9	2965.1
55°	2839.8	2965.1	3198.7	3264.5	3285.8	3304.9	3304.9	3275.2	3183.8	2975.7	2850.4
57.5°	2663.5	2773.9	2958.7	3024.5	3075.5	3088.3	3088.3	3039.4	2965.1	2765.4	2663.5
60°	2472.3	2567.9	2693.2	2763.3	2801.5	2776.0	2795.1	2782.4	2722.9	2538.1	2453.2
62.5°	2217.4	2315.1	2453.2	2525.4	2542.4	2516.9	2542.4	2540.3	2459.6	2293.9	2191.9
65°	2034.8	2130.3	2266.3	2359.7	2387.3	2381.0	2398.0	2372.5	2272.7	2115.5	2017.8
67.5°	1818.1	1920.1	2077.2	2181.3	2238.7	2245.0	2268.4	2215.3	2113.4	1941.3	1818.1
70°	1612.1	1699.2	1820.2	1917.9	1998.7	2039.0	2043.3	1966.8	1839.4	1697.1	1607.8
72.5°	1395.5	1484.7	1631.2	1737.4	1839.4	1886.1	1886.1	1792.6	1654.6	1497.4	1401.8
75°	1132.1	1214.9	1348.7	1463.4	1580.2	1639.7	1637.6	1556.9	1403.9	1255.3	1155.4
77.5°	766.8	828.3	913.3	1000.4	1017.4	1064.1	1087.5	985.5	900.6	819.9	730.6
80°	446.0	484.3	531.0	579.8	590.5	605.3	567.1	528.9	484.3	431.2	390.8
82.5°	261.2	286.7	310.1	348.3	354.7	359.0	325.0	308.0	271.9	240.0	214.5
85°	127.4	135.9	157.2	176.3	167.8	163.5	148.7	131.7	116.8	104.1	91.3
87.5°	25.5	25.5	38.2	36.1	29.7	25.5	14.9	19.1	4.2	4.2	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5
2.5°	4362.6	4398.7	4443.4	4502.8	4570.8	4643.0	4713.1	4766.2	4819.3	4897.9	4885.1
5°	4139.6	4201.2	4271.3	4362.6	4473.1	4598.4	4738.6	4878.8	5029.6	5157.0	5212.2
7.5°	4010.1	4078.0	4160.9	4279.8	4422.1	4575.0	4772.6	4999.8	5244.1	5411.9	5516.0
10°	4010.1	4097.1	4205.5	4320.2	4445.5	4602.7	4846.9	5131.5	5445.9	5666.8	5787.8
12.5°	4241.6	4328.7	4352.0	4347.8	4417.9	4592.0	4906.4	5269.6	5645.5	5879.2	6027.8
15°	4602.7	4632.4	4456.1	4294.7	4305.3	4515.6	4934.0	5380.0	5817.6	6097.9	6259.3
17.5°	4844.8	4766.2	4451.8	4169.4	4109.9	4386.0	4934.0	5486.2	6000.2	6316.7	6467.5
20°	4863.9	4668.5	4343.5	4048.3	3895.4	4214.0	4900.0	5566.9	6176.5	6527.0	6688.4
22.5°	4696.1	4502.8	4228.8	3944.2	3719.1	4005.8	4844.8	5628.5	6327.3	6724.5	6924.2
25°	4504.9	4343.5	4112.0	3838.0	3598.0	3795.5	4793.8	5732.6	6537.6	6992.1	7193.9
27.5°	4318.0	4182.1	3971.8	3748.8	3530.0	3612.9	4761.9	5885.5	6788.2	7372.3	7546.5
30°	4135.4	4012.2	3821.0	3663.9	3493.9	3493.9	4734.3	6061.8	7119.6	7799.2	7973.4
32.5°	3950.6	3833.8	3678.7	3581.0	3472.7	3447.2	4657.9	6227.5	7461.5	8266.5	8444.9
35°	3778.5	3661.7	3542.8	3502.4	3462.1	3411.1	4468.8	6357.1	7795.0	8812.4	8965.3
37.5°	3617.1	3504.6	3415.3	3404.7	3409.0	3313.4	4171.5	6465.4	8211.3	9371.0	9451.7
40°	3476.9	3351.6	3281.5	3279.4	3300.7	3156.2	3795.5	6620.4	8687.1	9844.6	9810.6
42.5°	3351.6	3219.9	3135.0	3154.1	3141.4	2999.1	3428.1	6762.7	9101.2	10288.5	10220.6
45°	3228.4	3101.0	2982.1	3009.7	2994.8	2901.3	3115.9	6866.8	9560.0	10821.6	10830.1
47.5°	3109.5	2984.2	2865.2	2831.3	2829.1	2871.6	2875.9	6900.8	10307.6	11679.7	11486.4
50°	2999.1	2873.7	2750.5	2635.9	2680.5	2812.1	2697.4	6875.3	11427.0	12627.0	12087.5
52.5°	2884.4	2765.4	2629.5	2423.5	2540.3	2669.8	2538.1	6784.0	12110.9	13463.9	13141.0
55°	2752.7	2640.1	2455.3	2204.7	2347.0	2374.6	2374.6	5900.4	12401.9	14292.2	14491.9
57.5°	2576.4	2427.7	2134.6	1932.8	2060.3	1954.1	2200.4	4129.0	11921.9	14031.0	14806.2
60°	2376.7	2217.4	1907.3	1762.9	1801.1	1614.2	1875.5	2589.1	9880.7	11938.9	13281.2
62.5°	2113.4	1966.8	1709.8	1597.2	1518.6	1316.9	1510.1	1637.6	6773.4	8865.5	9780.9
65°	1937.1	1775.6	1546.3	1397.6	1236.2	1059.9	1002.5	1074.7	3642.6	4961.6	5579.7
67.5°	1728.9	1569.6	1353.0	1166.1	1036.5	909.1	809.2	783.7	1248.9	1652.5	1788.4
70°	1531.4	1378.5	1197.9	1023.8	894.2	768.9	671.2	601.1	577.7	573.5	565.0
72.5°	1329.6	1187.3	1036.5	875.1	732.8	618.1	531.0	450.3	416.3	405.7	395.1
75°	1089.6	977.0	826.2	652.1	537.4	431.2	363.2	310.1	280.4	269.7	257.0
77.5°	700.9	649.9	518.2	420.5	325.0	257.0	220.9	186.9	167.8	163.5	152.9
80°	373.8	348.3	286.7	242.1	193.3	157.2	138.1	118.9	108.3	104.1	99.8
82.5°	208.1	189.0	159.3	140.2	112.6	95.6	85.0	76.5	70.1	68.0	65.8
85°	93.5	80.7	63.7	59.5	53.1	48.9	46.7	42.5	40.4	38.2	36.1
87.5°	4.2	8.5	10.6	8.5	8.5	12.7	14.9	14.9	12.7	12.7	10.6
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°	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5	4651.5
2.5°	4963.7	5027.4	5033.8	5055.1	5027.4	5021.1	4976.5	4951.0	4927.6	4921.2
5°	5350.3	5477.7	5528.7	5564.8	5530.8	5513.8	5416.1	5314.2	5256.8	5229.2
7.5°	5747.5	5938.6	6038.5	6083.1	6087.3	6010.8	5843.1	5651.9	5556.3	5520.2
10°	6102.2	6337.9	6469.6	6554.6	6524.8	6431.4	6202.0	5942.9	5821.8	5790.0
12.5°	6365.5	6590.7	6692.6	6747.9	6745.7	6694.8	6478.1	6197.8	6059.7	6027.8
15°	6535.5	6669.3	6675.6	6688.4	6724.5	6792.5	6679.9	6420.8	6267.8	6223.2
17.5°	6669.3	6616.2	6516.3	6482.4	6563.1	6752.1	6820.1	6609.8	6444.1	6405.9
20°	6754.2	6486.6	6310.3	6244.5	6337.9	6645.9	6905.0	6779.7	6607.7	6558.8
22.5°	6820.1	6365.5	6080.9	6036.3	6134.0	6531.2	6992.1	6981.5	6792.5	6724.5
25°	6924.2	6284.8	5919.5	5887.7	5979.0	6476.0	7108.9	7255.5	7087.7	6990.0
27.5°	7087.7	6276.3	5836.7	5826.1	5951.4	6524.8	7276.7	7656.9	7446.7	7374.4
30°	7315.0	6357.1	5855.8	5877.0	6030.0	6701.1	7538.0	8115.7	7905.4	7792.9
32.5°	7642.1	6573.7	6146.8	6238.1	6350.7	6983.6	7920.3	8612.7	8453.4	8287.7
35°	8073.2	7168.4	7007.0	7395.7	7289.5	7601.7	8381.2	9215.9	9022.6	8878.2
37.5°	8648.8	8387.6	8536.2	9071.5	8814.5	8769.9	8944.1	9763.9	9657.7	9513.3
40°	9455.9	9509.0	9783.0	10486.1	10114.4	9827.6	9634.3	10176.0	10212.1	10033.6
42.5°	9991.2	10235.4	10896.0	11694.6	11182.7	10496.7	10212.1	10702.7	10704.8	10543.4
45°	10190.8	10830.1	12210.7	13130.4	12274.4	10879.0	10530.7	11418.5	11397.2	11212.5
47.5°	10118.6	11331.4	13576.4	14982.5	13676.3	11150.9	10486.1	12438.0	12610.0	12329.7
50°	9967.8	11834.8	15171.5	17250.9	15396.7	11439.7	10418.1	13567.9	13852.6	13635.9
52.5°	10120.7	12395.5	17057.6	19595.8	17554.6	11900.6	10876.9	15018.6	14967.6	14706.4
55°	10605.0	13058.2	19349.4	22541.7	19925.0	12680.1	12055.7	16401.3	15883.1	15570.8
57.5°	10581.6	13531.8	21358.7	24871.7	21987.4	13319.4	12465.6	16547.9	15500.8	15105.7
60°	9604.6	13315.2	22123.3	26345.8	22609.7	12966.9	11116.9	14780.7	13079.4	12665.3
62.5°	7168.4	11815.7	20640.8	24500.0	20848.9	11199.7	8360.0	10609.2	9398.6	8699.8
65°	4585.7	9243.5	17352.9	19848.5	17185.1	8566.0	4978.6	5688.0	4456.1	4256.4
67.5°	1951.9	6524.8	13489.4	13266.3	12856.4	5549.9	1922.2	1601.5	1193.7	1172.4
70°	645.7	4439.1	8315.4	8848.5	7678.2	3823.2	635.1	537.4	535.2	516.1
72.5°	422.7	2383.1	4681.2	5212.2	4940.4	2200.4	384.4	359.0	367.4	359.0
75°	252.8	518.2	788.0	1023.8	788.0	369.6	231.5	227.3	231.5	220.9
77.5°	148.7	144.4	140.2	140.2	138.1	127.4	116.8	112.6	114.7	116.8
80°	95.6	91.3	87.1	85.0	74.3	70.1	65.8	61.6	61.6	63.7
82.5°	61.6	57.3	53.1	46.7	38.2	31.9	29.7	25.5	25.5	27.6
85°	31.9	25.5	19.1	14.9	8.5	4.2	0.0	0.0	0.0	0.0
87.5°	6.4	0.0	0.0	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

(END OF REPORT)