

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: P641010

Luminaire Tested: GWS-SA5F-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641010
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23930.7 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

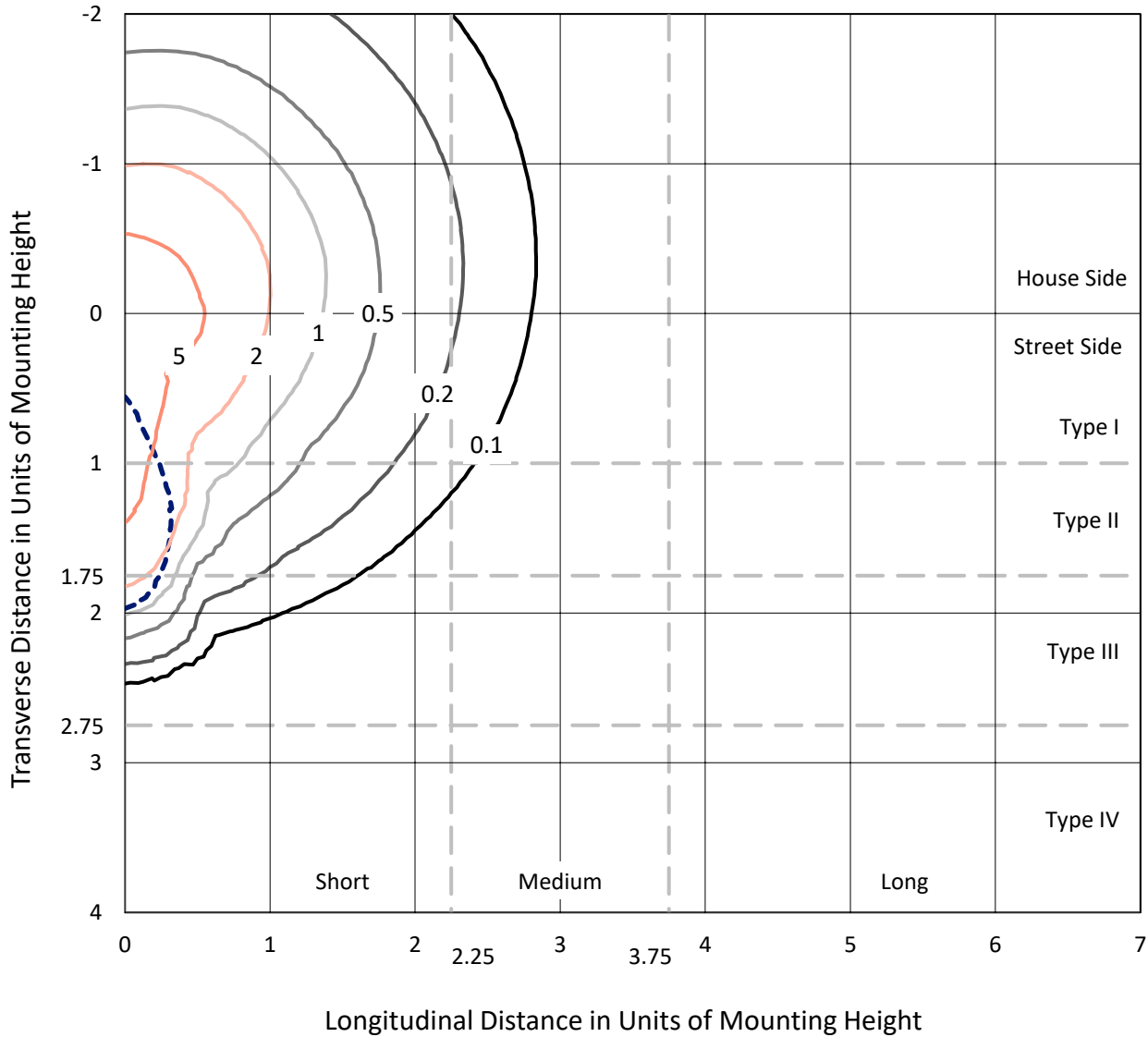
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

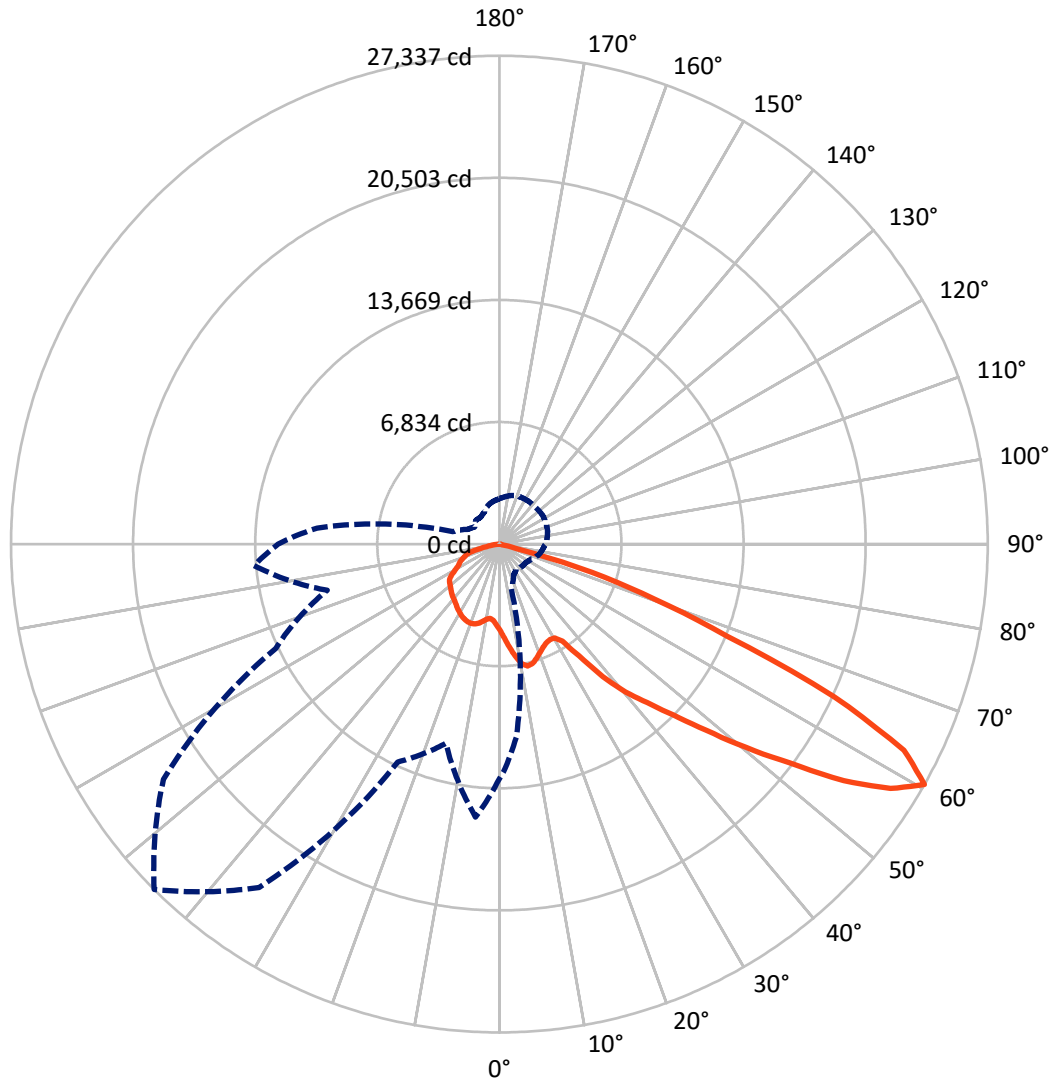
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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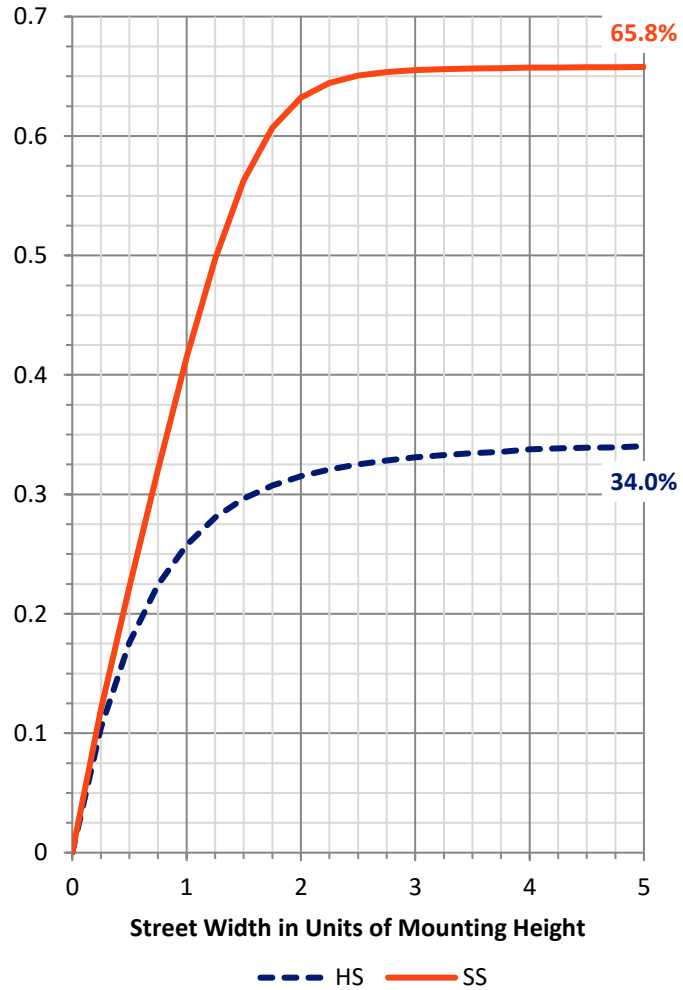
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8186.5	0.0	8186.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	15744.2	0.0	15744.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	23930.7	0.0	23930.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.6	2.0
10°-20°	1512.5	6.3
20°-30°	2463.3	10.3
30°-40°	3460.4	14.5
40°-50°	4735.1	19.8
50°-60°	6074.9	25.4
60°-70°	4090.6	17.1
70°-80°	1022.7	4.3
80°-90°	99.7	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°	23930.7	100.0
0°-180°	23930.7	100.0

Coefficient of Utilization



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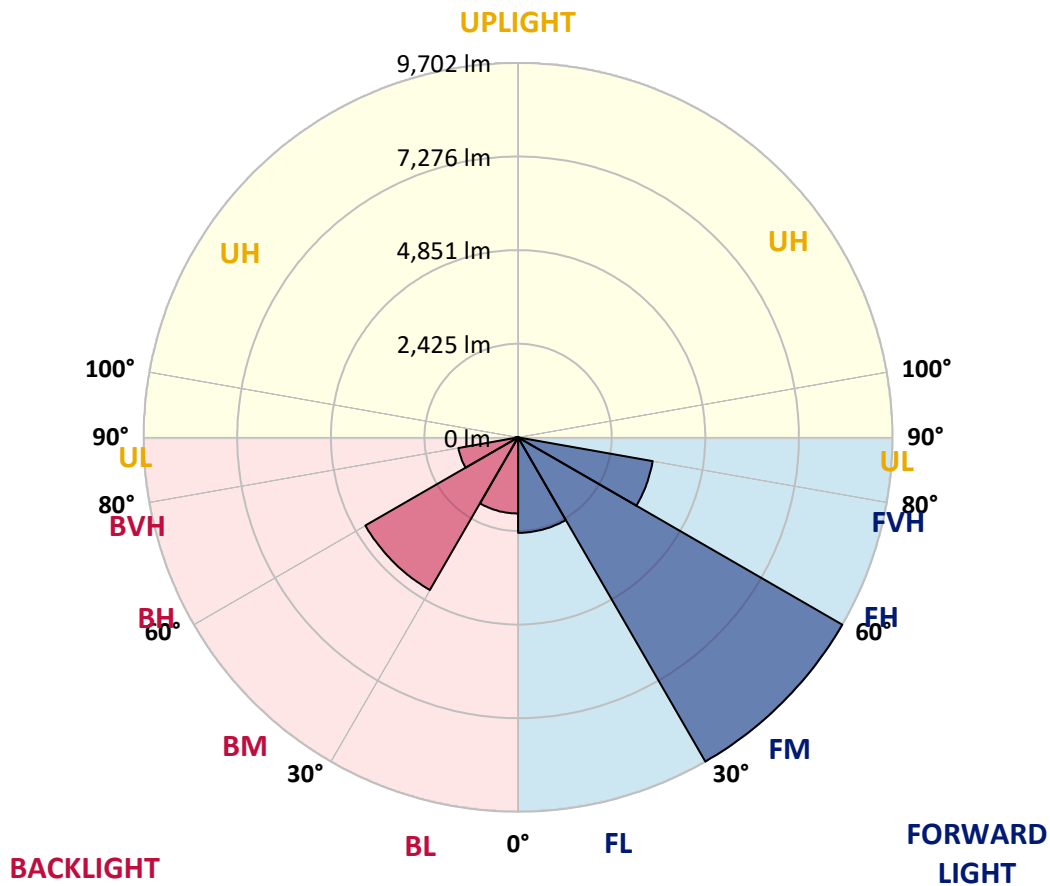
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.9	10.3			
FM (30°-60°)	9701.7	40.5			
FH (60°-80°)	3542.7	14.8			G2/5000
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1973.4	8.2	B3/2500		
BM (30°-60°)	4568.7	19.1	B3/5000		
BH (60°-80°)	1570.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	73.8	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°	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6
2.5°	5106.5	5095.4	5084.4	4998.5	4976.4	4914.7	4870.6	4815.5	4736.2	4692.1	4654.7
5°	5426.0	5408.4	5348.9	5172.6	5058.0	4932.4	4828.8	4714.2	4593.0	4513.6	4451.9
7.5°	5728.0	5723.6	5622.2	5331.3	5146.1	4965.4	4824.4	4656.9	4482.8	4363.7	4284.4
10°	6007.9	5974.8	5853.6	5474.5	5232.1	5024.9	4872.8	4687.7	4485.0	4324.1	4218.3
12.5°	6254.7	6212.8	6045.3	5606.8	5307.0	5051.4	4886.1	4734.0	4599.6	4465.1	4343.9
15°	6457.5	6406.8	6237.1	5730.2	5373.1	5035.9	4804.5	4685.5	4731.8	4791.3	4656.9
17.5°	6647.0	6594.1	6386.9	5820.5	5393.0	4941.2	4604.0	4553.3	4786.9	5058.0	4996.3
20°	6805.7	6746.2	6505.9	5864.6	5357.7	4760.5	4343.9	4432.1	4740.6	5064.6	5163.8
22.5°	6977.6	6929.1	6640.4	5928.5	5313.6	4511.4	4125.7	4341.7	4661.3	4945.6	5095.4
25°	7253.1	7193.6	6849.8	6040.9	5291.6	4277.8	3969.2	4253.6	4551.1	4808.9	4925.7
27.5°	7652.0	7541.8	7136.3	6237.1	5315.8	4057.4	3870.1	4145.6	4423.3	4643.6	4738.4
30°	8086.2	7953.9	7453.6	6439.8	5351.1	3923.0	3817.2	4022.1	4227.1	4447.5	4551.1
32.5°	8599.7	8482.9	7793.0	6591.9	5276.2	3861.3	3777.5	3887.7	4050.8	4227.1	4313.1
35°	9212.4	9003.0	8163.3	6715.3	5033.7	3770.9	3742.2	3740.0	3826.0	3997.9	4094.9
37.5°	9871.3	9646.5	8619.5	6847.6	4656.9	3627.6	3658.5	3565.9	3645.3	3781.9	3892.1
40°	10411.3	10175.5	9080.1	7028.3	4185.2	3402.8	3473.4	3374.2	3422.7	3563.7	3687.1
42.5°	10940.2	10689.0	9509.9	7233.2	3729.0	3182.4	3217.7	3180.2	3195.7	3343.3	3515.2
45°	11634.5	11352.4	10038.8	7378.7	3319.1	3008.3	2975.3	2911.4	2992.9	3184.7	3367.6
47.5°	12793.7	12456.5	10905.0	7473.5	3021.6	2909.2	2757.1	2719.6	2821.0	3034.8	3224.3
50°	14149.1	13858.2	12289.0	7469.1	2799.0	2825.4	2545.5	2512.5	2680.0	2895.9	3096.5
52.5°	15259.9	14964.6	13472.5	7248.7	2616.0	2646.9	2422.1	2329.5	2558.7	2759.3	2959.9
55°	16156.9	15824.1	14016.9	6327.4	2384.6	2362.6	2287.7	2118.0	2406.7	2622.7	2810.0
57.5°	15674.2	15277.5	13357.9	4811.1	2146.6	2007.8	2056.3	1930.6	2199.5	2470.6	2651.3
60°	13141.9	12784.9	10852.1	2560.9	1888.8	1677.2	1778.6	1798.4	1972.5	2287.7	2472.8
62.5°	9027.2	8767.2	7354.5	1553.8	1489.8	1346.6	1505.3	1648.5	1778.6	2045.2	2206.1
65°	4416.6	4339.5	3678.3	996.2	1042.5	1088.7	1247.4	1421.5	1613.3	1846.9	2016.6
67.5°	1216.6	1225.4	1115.2	778.0	822.1	949.9	1075.5	1214.4	1406.1	1622.1	1794.0
70°	535.6	544.4	562.0	599.5	683.2	800.0	930.1	1073.3	1249.6	1430.3	1595.6
72.5°	372.5	381.3	407.7	456.2	531.1	641.3	764.8	901.4	1084.3	1236.4	1373.0
75°	229.2	235.8	260.1	301.9	352.6	436.4	557.6	683.2	844.1	982.9	1104.2
77.5°	121.2	116.8	132.2	160.9	205.0	249.0	330.6	409.9	524.5	636.9	738.3
80°	66.1	63.9	72.7	88.2	101.4	136.6	191.7	244.6	310.8	374.7	429.8
82.5°	28.7	26.4	28.7	37.5	46.3	66.1	97.0	134.4	171.9	216.0	251.2
85°	0.0	0.0	0.0	2.2	11.0	17.6	33.1	48.5	70.5	97.0	119.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	19.8
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°	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6
2.5°	4632.6	4577.5	4573.1	4529.0	4533.4	4535.7	4491.6	4473.9	4489.4	4507.0	4498.2
5°	4429.9	4372.6	4348.3	4306.4	4302.0	4282.2	4264.6	4242.5	4258.0	4273.4	4282.2
7.5°	4253.6	4216.1	4200.7	4189.6	4194.0	4185.2	4150.0	4130.1	4127.9	4134.5	4143.4
10°	4196.2	4165.4	4185.2	4216.1	4238.1	4253.6	4216.1	4183.0	4152.2	4138.9	4138.9
12.5°	4319.7	4280.0	4319.7	4352.7	4396.8	4407.8	4366.0	4330.7	4319.7	4332.9	4359.3
15°	4593.0	4500.4	4498.2	4518.0	4553.3	4570.9	4531.2	4513.6	4513.6	4597.4	4663.5
17.5°	4866.2	4714.2	4650.3	4639.2	4661.3	4667.9	4634.8	4619.4	4659.1	4822.2	4945.6
20°	5058.0	4872.8	4734.0	4707.6	4714.2	4716.4	4689.9	4678.9	4736.2	4934.6	5038.1
22.5°	5038.1	4901.5	4731.8	4698.7	4709.8	4705.4	4681.1	4676.7	4723.0	4894.9	4943.4
25°	4901.5	4795.7	4652.5	4630.4	4648.1	4645.8	4621.6	4610.6	4630.4	4745.0	4749.4
27.5°	4745.0	4652.5	4529.0	4522.4	4551.1	4566.5	4524.6	4491.6	4485.0	4562.1	4544.5
30°	4557.7	4489.4	4390.2	4394.6	4447.5	4456.3	4405.6	4357.1	4343.9	4385.8	4361.5
32.5°	4335.1	4313.1	4260.2	4271.2	4321.9	4339.5	4286.6	4235.9	4220.5	4233.7	4183.0
35°	4145.6	4136.7	4141.2	4161.0	4205.1	4218.3	4174.2	4134.5	4112.5	4066.2	4000.1
37.5°	3949.4	3973.7	4037.6	4075.0	4099.3	4094.9	4070.6	4042.0	4006.7	3920.8	3839.2
40°	3766.5	3828.2	3942.8	3984.7	3993.5	3995.7	3978.1	3953.8	3909.7	3795.1	3702.6
42.5°	3625.4	3693.8	3845.8	3909.7	3914.1	3918.6	3900.9	3881.1	3819.4	3667.3	3576.9
45°	3477.8	3568.1	3746.7	3823.8	3819.4	3817.2	3801.7	3792.9	3720.2	3543.9	3444.7
47.5°	3352.2	3457.9	3649.7	3715.8	3713.6	3711.4	3700.4	3700.4	3627.6	3435.9	3323.5
50°	3228.7	3349.9	3550.5	3605.6	3610.0	3605.6	3601.2	3607.8	3521.9	3316.9	3206.7
52.5°	3094.3	3230.9	3440.3	3491.0	3517.4	3528.5	3528.5	3513.0	3411.7	3197.9	3076.7
55°	2946.6	3076.7	3319.1	3387.4	3409.5	3429.3	3429.3	3398.4	3303.7	3087.7	2957.7
57.5°	2763.7	2878.3	3070.0	3138.4	3191.3	3204.5	3204.5	3153.8	3076.7	2869.5	2763.7
60°	2565.4	2664.5	2794.6	2867.3	2907.0	2880.5	2900.3	2887.1	2825.4	2633.7	2545.5
62.5°	2300.9	2402.3	2545.5	2620.5	2638.1	2611.6	2638.1	2635.9	2552.1	2380.2	2274.4
65°	2111.3	2210.5	2351.6	2448.5	2477.2	2470.6	2488.2	2461.8	2358.2	2195.1	2093.7
67.5°	1886.5	1992.3	2155.4	2263.4	2322.9	2329.5	2353.8	2298.7	2192.9	2014.4	1886.5
70°	1672.8	1763.1	1888.8	1990.1	2073.9	2115.8	2120.2	2040.8	1908.6	1760.9	1668.4
72.5°	1448.0	1540.5	1692.6	1802.8	1908.6	1957.1	1957.1	1860.1	1716.8	1553.8	1454.6
75°	1174.7	1260.6	1399.5	1518.5	1639.7	1701.4	1699.2	1615.5	1456.8	1302.5	1198.9
77.5°	795.6	859.5	947.7	1038.0	1055.7	1104.2	1128.4	1022.6	934.5	850.7	758.1
80°	462.8	502.5	551.0	601.7	612.7	628.1	588.4	548.8	502.5	447.4	405.5
82.5°	271.1	297.5	321.8	361.4	368.1	372.5	337.2	319.6	282.1	249.0	222.6
85°	132.2	141.1	163.1	182.9	174.1	169.7	154.3	136.6	121.2	108.0	94.8
87.5°	26.4	26.4	39.7	37.5	30.9	26.4	15.4	19.8	4.4	4.4	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°	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6
2.5°	4526.8	4564.3	4610.6	4672.3	4742.8	4817.8	4890.5	4945.6	5000.7	5082.2	5069.0
5°	4295.4	4359.3	4432.1	4526.8	4641.4	4771.5	4916.9	5062.4	5218.9	5351.1	5408.4
7.5°	4161.0	4231.5	4317.5	4440.9	4588.5	4747.2	4952.2	5188.0	5441.5	5615.6	5723.6
10°	4161.0	4251.3	4363.7	4482.8	4612.8	4775.9	5029.3	5324.7	5650.8	5880.0	6005.7
12.5°	4401.2	4491.6	4515.8	4511.4	4584.1	4764.9	5091.0	5467.9	5858.0	6100.4	6254.7
15°	4775.9	4806.7	4623.8	4456.3	4467.3	4685.5	5119.7	5582.5	6036.5	6327.4	6494.9
17.5°	5027.1	4945.6	4619.4	4326.3	4264.6	4551.1	5119.7	5692.7	6226.1	6554.4	6710.9
20°	5047.0	4844.2	4507.0	4200.7	4042.0	4372.6	5084.4	5776.5	6409.0	6772.6	6940.1
22.5°	4872.8	4672.3	4388.0	4092.7	3859.1	4156.6	5027.1	5840.4	6565.5	6977.6	7184.8
25°	4674.5	4507.0	4266.8	3982.5	3733.4	3938.4	4974.2	5948.4	6783.6	7255.3	7464.7
27.5°	4480.6	4339.5	4121.3	3889.9	3662.9	3748.9	4941.2	6107.0	7043.7	7649.8	7830.5
30°	4291.0	4163.2	3964.8	3801.7	3625.4	3625.4	4912.5	6290.0	7387.5	8092.8	8273.5
32.5°	4099.3	3978.1	3817.2	3715.8	3603.4	3576.9	4833.2	6461.9	7742.3	8577.6	8762.8
35°	3920.8	3799.5	3676.1	3634.3	3592.4	3539.5	4637.0	6596.3	8088.4	9144.0	9302.7
37.5°	3753.3	3636.5	3543.9	3532.9	3537.3	3438.1	4328.5	6708.7	8520.3	9723.7	9807.4
40°	3607.8	3477.8	3405.0	3402.8	3424.9	3275.0	3938.4	6869.6	9014.0	10215.1	10179.9
42.5°	3477.8	3341.1	3253.0	3272.8	3259.6	3111.9	3557.1	7017.3	9443.8	10675.8	10605.2
45°	3349.9	3217.7	3094.3	3122.9	3107.5	3010.5	3233.1	7125.2	9919.8	11228.9	11237.7
47.5°	3226.5	3096.5	2973.1	2937.8	2935.6	2979.7	2984.1	7160.5	10695.6	12119.3	11918.8
50°	3111.9	2981.9	2854.1	2735.1	2781.3	2918.0	2799.0	7134.1	11857.0	13102.3	12542.5
52.5°	2992.9	2869.5	2728.4	2514.7	2635.9	2770.3	2633.7	7039.3	12566.7	13970.6	13635.6
55°	2856.3	2739.5	2547.7	2287.7	2435.3	2464.0	2464.0	6122.5	12868.6	14830.1	15037.3
57.5°	2673.3	2519.1	2214.9	2005.6	2137.8	2027.6	2283.3	4284.4	12370.6	14559.0	15363.5
60°	2466.2	2300.9	1979.1	1829.2	1868.9	1675.0	1946.1	2686.6	10252.6	12388.2	13781.1
62.5°	2192.9	2040.8	1774.1	1657.3	1575.8	1366.4	1567.0	1699.2	7028.3	9199.1	10149.0
65°	2010.0	1842.5	1604.4	1450.2	1282.7	1099.8	1040.2	1115.2	3779.7	5148.3	5789.7
67.5°	1794.0	1628.7	1403.9	1209.9	1075.5	943.3	839.7	813.2	1295.9	1714.6	1855.7
70°	1589.0	1430.3	1243.0	1062.3	927.8	797.8	696.4	623.7	599.5	595.1	586.2
72.5°	1379.6	1232.0	1075.5	908.0	760.3	641.3	551.0	467.2	432.0	420.9	409.9
75°	1130.6	1013.8	857.3	676.6	557.6	447.4	376.9	321.8	290.9	279.9	266.7
77.5°	727.3	674.4	537.8	436.4	337.2	266.7	229.2	193.9	174.1	169.7	158.7
80°	387.9	361.4	297.5	251.2	200.6	163.1	143.3	123.4	112.4	108.0	103.6
82.5°	216.0	196.1	165.3	145.5	116.8	99.2	88.2	79.3	72.7	70.5	68.3
85°	97.0	83.7	66.1	61.7	55.1	50.7	48.5	44.1	41.9	39.7	37.5
87.5°	4.4	8.8	11.0	8.8	8.8	13.2	15.4	15.4	13.2	13.2	11.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6
2.5°	5150.5	5216.7	5223.3	5245.3	5216.7	5210.0	5163.8	5137.3	5113.1	5106.5
5°	5551.7	5683.9	5736.8	5774.3	5739.0	5721.4	5620.0	5514.2	5454.7	5426.0
7.5°	5963.8	6162.1	6265.7	6312.0	6316.4	6237.1	6063.0	5864.6	5765.4	5728.0
10°	6331.8	6576.5	6713.1	6801.3	6770.4	6673.4	6435.4	6166.5	6040.9	6007.9
12.5°	6605.1	6838.7	6944.5	7001.8	6999.6	6946.7	6721.9	6431.0	6287.8	6254.7
15°	6781.4	6920.3	6926.9	6940.1	6977.6	7048.1	6931.3	6662.4	6503.7	6457.5
17.5°	6920.3	6865.2	6761.6	6726.3	6810.1	7006.2	7076.8	6858.6	6686.7	6647.0
20°	7008.4	6730.7	6547.8	6479.5	6576.5	6896.0	7164.9	7034.9	6856.4	6805.7
22.5°	7076.8	6605.1	6309.8	6263.5	6364.9	6777.0	7255.3	7244.3	7048.1	6977.6
25°	7184.8	6521.4	6142.3	6109.2	6204.0	6719.7	7376.5	7528.6	7354.5	7253.1
27.5°	7354.5	6512.6	6056.4	6045.3	6175.4	6770.4	7550.6	7945.1	7726.9	7652.0
30°	7590.3	6596.3	6076.2	6098.2	6256.9	6953.3	7821.7	8421.1	8203.0	8086.2
32.5°	7929.7	6821.1	6378.1	6472.9	6589.7	7246.5	8218.4	8936.9	8771.6	8599.7
35°	8377.1	7438.2	7270.7	7674.0	7563.8	7887.8	8696.6	9562.8	9362.2	9212.4
37.5°	8974.3	8703.2	8857.5	9412.9	9146.2	9100.0	9280.7	10131.4	10021.2	9871.3
40°	9811.8	9866.9	10151.2	10880.7	10495.0	10197.5	9996.9	10558.9	10596.4	10411.3
42.5°	10367.2	10620.7	11306.1	12134.7	11603.6	10891.7	10596.4	11105.5	11107.7	10940.2
45°	10574.4	11237.7	12670.3	13624.6	12736.4	11288.4	10927.0	11848.2	11826.2	11634.5
47.5°	10499.4	11757.9	14087.4	15546.4	14191.0	11570.5	10880.7	12906.1	13084.6	12793.7
50°	10343.0	12280.2	15742.5	17900.2	15976.2	11870.3	10810.2	14078.6	14373.9	14149.1
52.5°	10501.6	12862.0	17699.6	20333.3	18215.3	12348.5	11286.2	15583.9	15531.0	15259.9
55°	11004.1	13549.7	20077.6	23390.1	20674.9	13157.4	12509.4	17018.6	16480.9	16156.9
57.5°	10979.9	14041.1	22162.5	25807.8	22814.9	13820.7	12934.8	17170.7	16084.2	15674.2
60°	9966.1	13816.3	22955.9	27337.3	23460.6	13454.9	11535.3	15337.0	13571.7	13141.9
62.5°	7438.2	12260.4	21417.6	25422.1	21633.6	11621.2	8674.6	11008.5	9752.3	9027.2
65°	4758.2	9591.4	18006.0	20595.6	17831.9	8888.4	5166.0	5902.1	4623.8	4416.6
67.5°	2025.4	6770.4	13997.0	13765.6	13340.3	5758.8	1994.5	1661.7	1238.6	1216.6
70°	670.0	4606.2	8628.3	9181.5	7967.1	3967.0	659.0	557.6	555.4	535.6
72.5°	438.6	2472.8	4857.4	5408.4	5126.3	2283.3	398.9	372.5	381.3	372.5
75°	262.3	537.8	817.7	1062.3	817.7	383.5	240.2	235.8	240.2	229.2
77.5°	154.3	149.9	145.5	145.5	143.3	132.2	121.2	116.8	119.0	121.2
80°	99.2	94.8	90.4	88.2	77.1	72.7	68.3	63.9	63.9	66.1
82.5°	63.9	59.5	55.1	48.5	39.7	33.1	30.9	26.4	26.4	28.7
85°	33.1	26.4	19.8	15.4	8.8	4.4	0.0	0.0	0.0	0.0
87.5°	6.6	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)