

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: P642220

Luminaire Tested: GWS-SA6C-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642220
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-SA6C-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22101.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

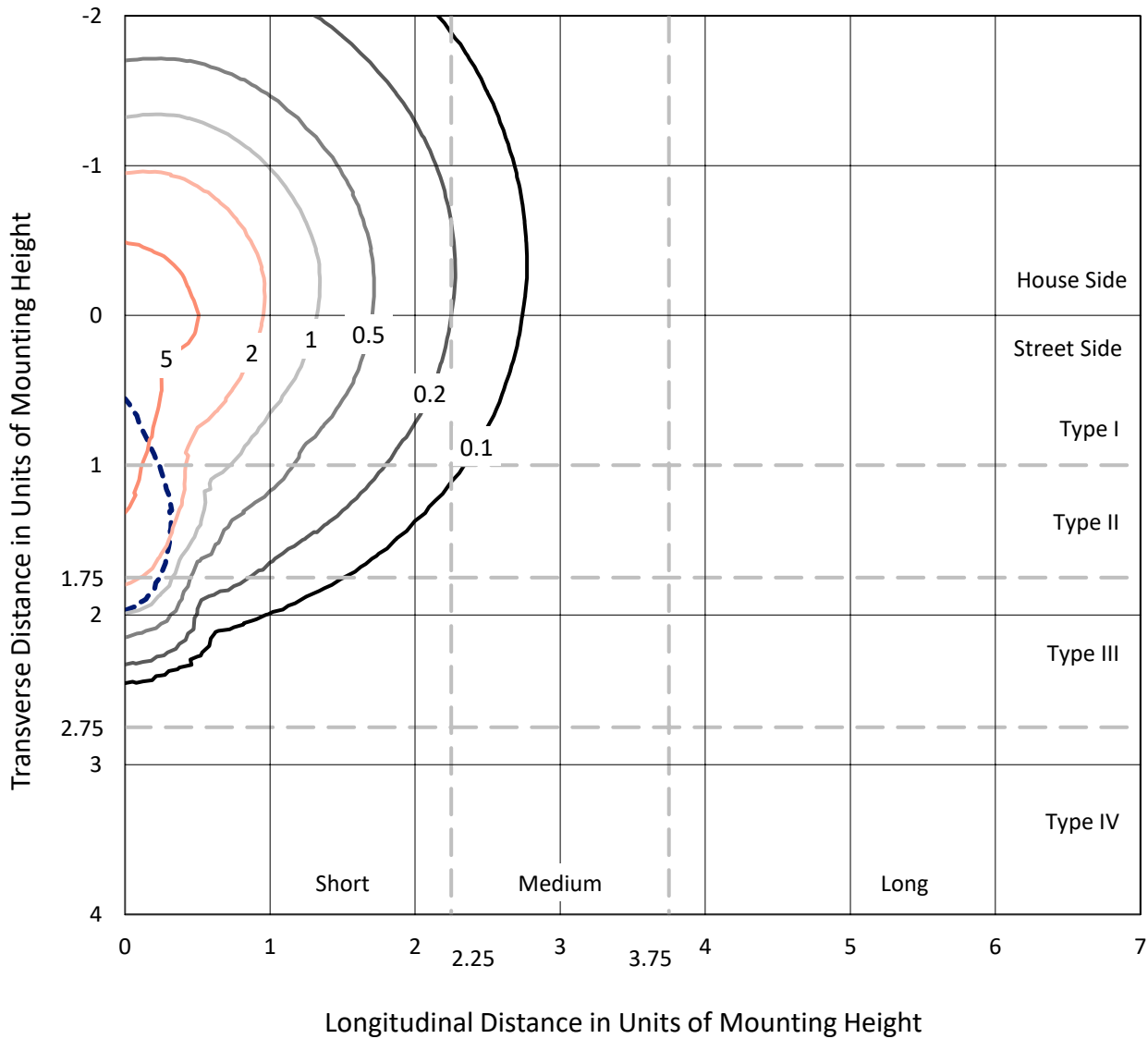
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

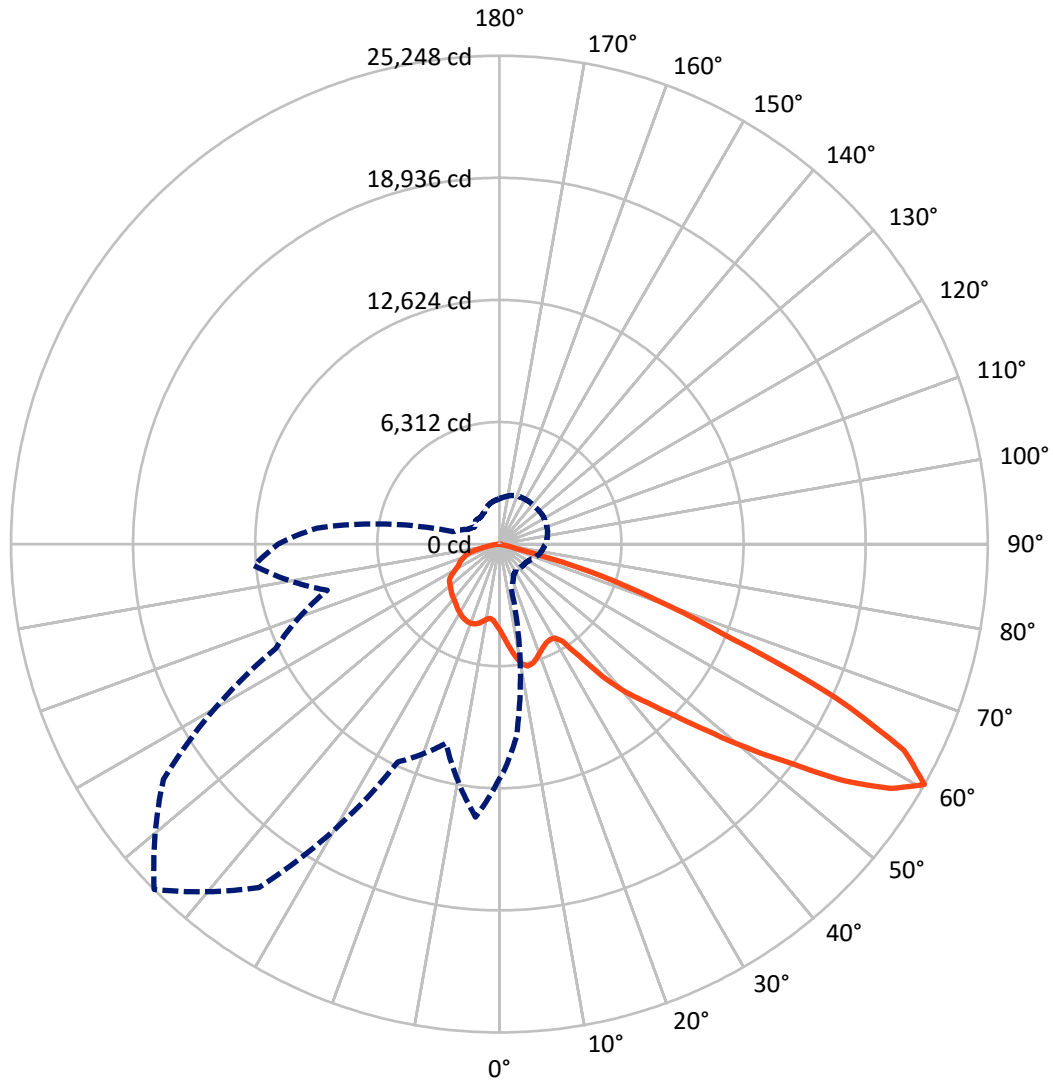
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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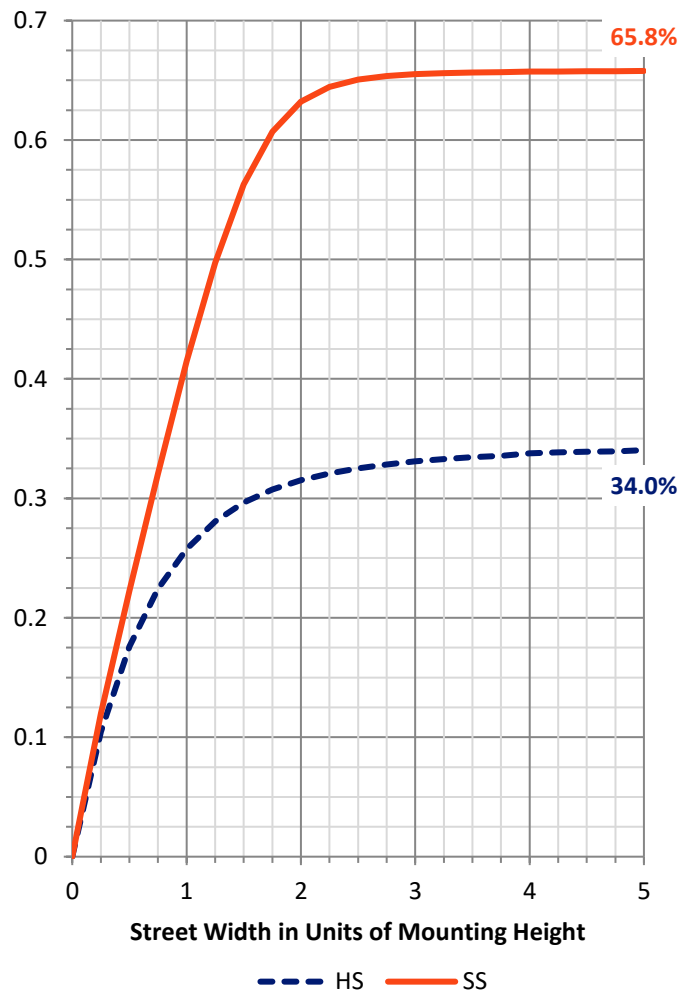
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7560.8	0.0	7560.8
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	14541.0	0.0	14541.0
	% Fixture	65.8	0.0	65.8
Total	Lumens	22101.8	0.0	22101.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.5	2.0
10°-20°	1396.9	6.3
20°-30°	2275.0	10.3
30°-40°	3195.9	14.5
40°-50°	4373.2	19.8
50°-60°	5610.6	25.4
60°-70°	3778.0	17.1
70°-80°	944.5	4.3
80°-90°	92.1	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°	22101.8	100.0
0°-180°	22101.8	100.0

Coefficient of Utilization



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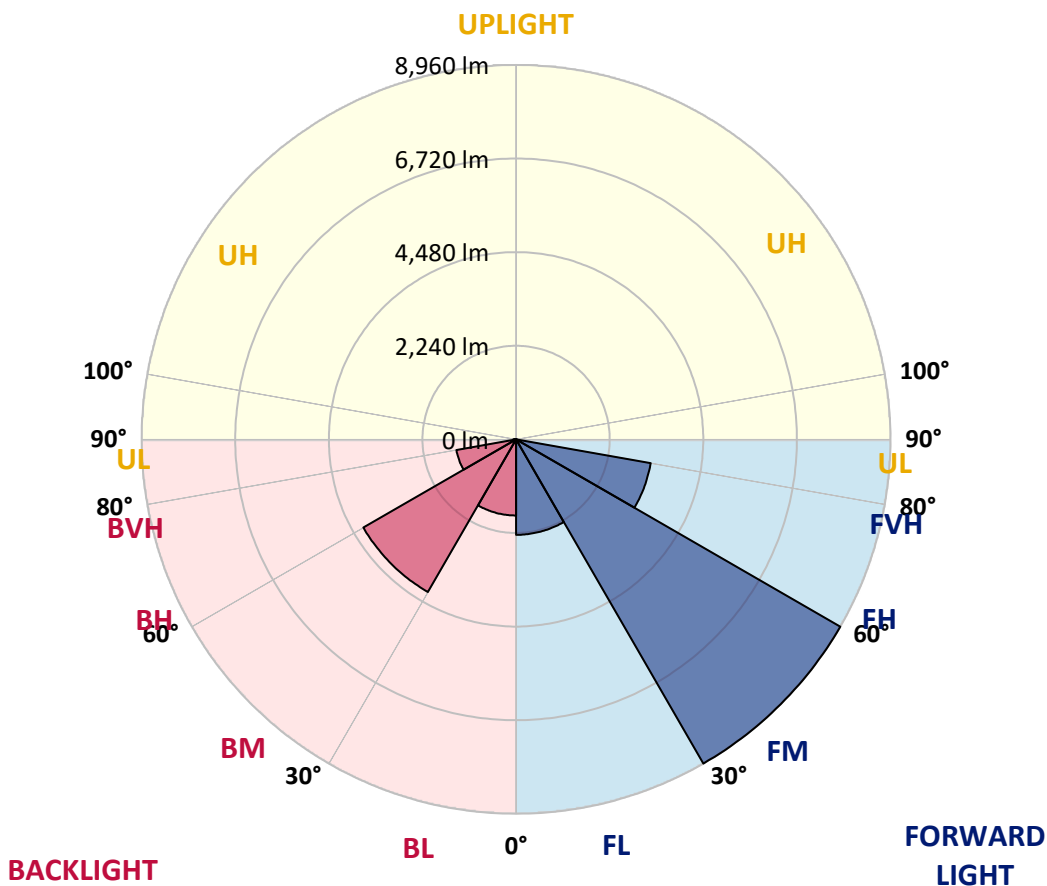
CATALOG NUMBER: GWS-SA6C-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.8	10.3			
FM (30°-60°)	8960.2	40.5			
FH (60°-80°)	3272.0	14.8			G2/5000
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1822.6	8.2	B3/2500		
BM (30°-60°)	4219.6	19.1	B3/5000		
BH (60°-80°)	1450.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	68.1	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°	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7
2.5°	4716.2	4706.0	4695.8	4616.5	4596.1	4539.1	4498.4	4447.5	4374.2	4333.5	4298.9
5°	5011.3	4995.1	4940.1	4777.3	4671.4	4555.4	4459.7	4353.9	4241.9	4168.7	4111.7
7.5°	5290.2	5286.1	5192.5	4923.8	4752.8	4585.9	4455.7	4301.0	4140.2	4030.2	3957.0
10°	5548.7	5518.2	5406.2	5056.1	4832.2	4640.9	4500.4	4329.5	4142.2	3993.6	3895.9
12.5°	5776.7	5738.0	5583.3	5178.3	4901.4	4665.3	4512.7	4372.2	4248.0	4123.9	4011.9
15°	5964.0	5917.1	5760.4	5292.2	4962.5	4651.1	4437.3	4327.4	4370.2	4425.1	4301.0
17.5°	6139.0	6090.2	5898.8	5375.7	4980.8	4563.5	4252.1	4205.3	4421.1	4671.4	4614.4
20°	6285.6	6230.6	6008.7	5416.4	4948.2	4396.6	4011.9	4093.3	4378.3	4677.5	4769.1
22.5°	6444.3	6399.5	6132.9	5475.4	4907.5	4166.6	3810.4	4009.9	4305.0	4567.6	4706.0
25°	6698.8	6643.8	6326.3	5579.2	4887.2	3950.9	3665.9	3928.5	4203.3	4441.4	4549.3
27.5°	7067.2	6965.4	6590.9	5760.4	4909.6	3747.3	3574.3	3828.7	4085.2	4288.8	4376.3
30°	7468.2	7346.0	6884.0	5947.7	4942.1	3623.2	3525.4	3714.7	3904.0	4107.6	4203.3
32.5°	7942.4	7834.6	7197.5	6088.1	4872.9	3566.2	3488.8	3590.6	3741.2	3904.0	3983.4
35°	8508.3	8314.9	7539.4	6202.1	4649.0	3482.7	3456.2	3454.2	3533.6	3692.4	3781.9
37.5°	9116.9	8909.3	7960.8	6324.2	4301.0	3350.4	3378.9	3293.4	3366.7	3492.9	3594.7
40°	9615.6	9397.8	8386.2	6491.1	3865.4	3142.8	3207.9	3116.3	3161.1	3291.4	3405.4
42.5°	10104.1	9872.1	8783.1	6680.4	3444.0	2939.2	2971.8	2937.2	2951.4	3087.8	3246.6
45°	10745.3	10484.8	9271.6	6814.8	3065.4	2778.4	2747.9	2688.9	2764.2	2941.3	3110.2
47.5°	11816.0	11504.5	10071.5	6902.3	2790.6	2686.8	2546.4	2511.8	2605.4	2802.9	2977.9
50°	13067.8	12799.1	11349.8	6898.2	2585.1	2609.5	2351.0	2320.4	2475.1	2674.6	2859.8
52.5°	14093.7	13820.9	12442.9	6694.7	2416.1	2444.6	2237.0	2151.5	2363.2	2548.4	2733.6
55°	14922.1	14614.7	12945.6	5843.9	2202.4	2182.0	2112.8	1956.1	2222.7	2422.2	2595.2
57.5°	14476.3	14109.9	12337.0	4443.4	1982.6	1854.3	1899.1	1783.1	2031.4	2281.8	2448.7
60°	12137.6	11807.8	10022.7	2365.2	1744.4	1549.0	1642.6	1661.0	1821.8	2112.8	2283.8
62.5°	8337.3	8097.1	6792.4	1435.0	1376.0	1243.7	1390.2	1522.5	1642.6	1888.9	2037.5
65°	4079.1	4007.9	3397.2	920.0	962.8	1005.5	1152.1	1312.9	1490.0	1705.7	1862.5
67.5°	1123.6	1131.7	1030.0	718.5	759.2	877.3	993.3	1121.5	1298.6	1498.1	1656.9
70°	494.6	502.8	519.0	553.7	631.0	738.9	859.0	991.3	1154.1	1321.0	1473.7
72.5°	344.0	352.1	376.6	421.3	490.6	592.3	706.3	832.5	1001.5	1141.9	1268.1
75°	211.7	217.8	240.2	278.9	325.7	403.0	515.0	631.0	779.6	907.8	1019.8
77.5°	112.0	107.9	122.1	148.6	189.3	230.0	305.3	378.6	484.4	588.3	681.9
80°	61.1	59.0	67.2	81.4	93.6	126.2	177.1	225.9	287.0	346.0	396.9
82.5°	26.5	24.4	26.5	34.6	42.7	61.1	89.6	124.2	158.8	199.5	232.0
85°	0.0	0.0	0.0	2.0	10.2	16.3	30.5	44.8	65.1	89.6	109.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	18.3
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°	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7
2.5°	4278.6	4227.7	4223.6	4182.9	4187.0	4189.0	4148.3	4132.0	4146.3	4162.6	4154.4
5°	4091.3	4038.4	4016.0	3977.3	3973.3	3954.9	3938.7	3918.3	3932.5	3946.8	3954.9
7.5°	3928.5	3893.9	3879.6	3869.4	3873.5	3865.4	3832.8	3814.5	3812.5	3818.6	3826.7
10°	3875.6	3847.1	3865.4	3893.9	3914.2	3928.5	3893.9	3863.3	3834.8	3822.6	3822.6
12.5°	3989.5	3952.9	3989.5	4020.1	4060.8	4071.0	4032.3	3999.7	3989.5	4001.8	4026.2
15°	4241.9	4156.4	4154.4	4172.7	4205.3	4221.6	4184.9	4168.7	4168.7	4246.0	4307.1
17.5°	4494.3	4353.9	4294.9	4284.7	4305.0	4311.1	4280.6	4266.4	4303.0	4453.6	4567.6
20°	4671.4	4500.4	4372.2	4347.8	4353.9	4355.9	4331.5	4321.3	4374.2	4557.4	4653.1
22.5°	4653.1	4526.9	4370.2	4339.6	4349.8	4345.7	4323.4	4319.3	4362.0	4520.8	4565.6
25°	4526.9	4429.2	4296.9	4276.5	4292.8	4290.8	4268.4	4258.2	4276.5	4382.4	4386.5
27.5°	4382.4	4296.9	4182.9	4176.8	4203.3	4217.5	4178.8	4148.3	4142.2	4213.4	4197.2
30°	4209.4	4146.3	4054.7	4058.7	4107.6	4115.7	4068.9	4024.1	4011.9	4050.6	4028.2
32.5°	4003.8	3983.4	3934.6	3944.8	3991.6	4007.9	3959.0	3912.2	3897.9	3910.2	3863.3
35°	3828.7	3820.6	3824.7	3843.0	3883.7	3895.9	3855.2	3818.6	3798.2	3755.5	3694.4
37.5°	3647.6	3670.0	3729.0	3763.6	3786.0	3781.9	3759.5	3733.1	3700.5	3621.1	3545.8
40°	3478.6	3535.6	3641.5	3680.1	3688.3	3690.3	3674.0	3651.6	3610.9	3505.1	3419.6
42.5°	3348.4	3411.5	3551.9	3610.9	3615.0	3619.1	3602.8	3584.5	3527.5	3387.0	3303.6
45°	3212.0	3295.4	3460.3	3531.6	3527.5	3525.4	3511.2	3503.1	3435.9	3273.0	3181.5
47.5°	3096.0	3193.7	3370.8	3431.8	3429.8	3427.7	3417.6	3417.6	3350.4	3173.3	3069.5
50°	2982.0	3093.9	3279.2	3330.0	3334.1	3330.0	3326.0	3332.1	3252.7	3063.4	2961.6
52.5°	2857.8	2984.0	3177.4	3224.2	3248.6	3258.8	3258.8	3244.6	3150.9	2953.5	2841.5
55°	2721.4	2841.5	3065.4	3128.5	3148.9	3167.2	3167.2	3138.7	3051.2	2851.7	2731.6
57.5°	2552.5	2658.3	2835.4	2898.5	2947.4	2959.6	2959.6	2912.8	2841.5	2650.2	2552.5
60°	2369.3	2460.9	2581.0	2648.2	2684.8	2660.4	2678.7	2666.5	2609.5	2432.4	2351.0
62.5°	2125.0	2218.7	2351.0	2420.2	2436.5	2412.0	2436.5	2434.4	2357.1	2198.3	2100.6
65°	1950.0	2041.6	2171.9	2261.4	2287.9	2281.8	2298.1	2273.6	2178.0	2027.3	1933.7
67.5°	1742.4	1840.1	1990.7	2090.4	2145.4	2151.5	2173.9	2123.0	2025.3	1860.4	1742.4
70°	1544.9	1628.4	1744.4	1838.0	1915.4	1954.1	1958.1	1884.9	1762.7	1626.3	1540.9
72.5°	1337.3	1422.8	1563.2	1665.0	1762.7	1807.5	1807.5	1717.9	1585.6	1435.0	1343.4
75°	1084.9	1164.3	1292.5	1402.4	1514.4	1571.4	1569.4	1492.0	1345.5	1203.0	1107.3
77.5°	734.8	793.8	875.3	958.7	975.0	1019.8	1042.2	944.5	863.0	785.7	700.2
80°	427.5	464.1	508.9	555.7	565.9	580.1	543.5	506.8	464.1	413.2	374.5
82.5°	250.4	274.8	297.2	333.8	339.9	344.0	311.4	295.1	260.5	230.0	205.6
85°	122.1	130.3	150.6	168.9	160.8	156.7	142.5	126.2	112.0	99.7	87.5
87.5°	24.4	24.4	36.6	34.6	28.5	24.4	14.2	18.3	4.1	4.1	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°	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7
2.5°	4180.9	4215.5	4258.2	4315.2	4380.3	4449.6	4516.7	4567.6	4618.5	4693.8	4681.6
5°	3967.1	4026.2	4093.3	4180.9	4286.7	4406.8	4541.2	4675.5	4820.0	4942.1	4995.1
7.5°	3843.0	3908.1	3987.5	4101.5	4237.9	4384.4	4573.7	4791.5	5025.6	5186.4	5286.1
10°	3843.0	3926.4	4030.2	4140.2	4260.3	4410.9	4645.0	4917.7	5219.0	5430.7	5546.7
12.5°	4064.9	4148.3	4170.7	4166.6	4233.8	4400.7	4702.0	5050.0	5410.3	5634.2	5776.7
15°	4410.9	4439.4	4270.4	4115.7	4125.9	4327.4	4728.4	5155.9	5575.2	5843.9	5998.6
17.5°	4642.9	4567.6	4266.4	3995.6	3938.7	4203.3	4728.4	5257.6	5750.2	6053.5	6198.0
20°	4661.2	4474.0	4162.6	3879.6	3733.1	4038.4	4695.8	5335.0	5919.2	6255.0	6409.7
22.5°	4500.4	4315.2	4052.6	3779.9	3564.1	3838.9	4642.9	5394.0	6063.7	6444.3	6635.7
25°	4317.3	4162.6	3940.7	3678.1	3448.1	3637.4	4594.1	5493.8	6265.2	6700.8	6894.2
27.5°	4138.1	4007.9	3806.3	3592.6	3383.0	3462.3	4563.5	5640.3	6505.4	7065.1	7232.1
30°	3963.1	3845.0	3661.8	3511.2	3348.4	3348.4	4537.1	5809.3	6822.9	7474.3	7641.2
32.5°	3786.0	3674.0	3525.4	3431.8	3328.0	3303.6	4463.8	5968.0	7150.6	7922.1	8093.1
35°	3621.1	3509.2	3395.2	3356.5	3317.8	3269.0	4282.6	6092.2	7470.2	8445.2	8591.8
37.5°	3466.4	3358.5	3273.0	3262.9	3266.9	3175.3	3997.7	6196.0	7869.2	8980.5	9057.9
40°	3332.1	3212.0	3144.8	3142.8	3163.1	3024.7	3637.4	6344.6	8325.1	9434.4	9401.9
42.5°	3212.0	3085.8	3004.4	3022.7	3010.5	2874.1	3285.3	6481.0	8722.0	9859.9	9794.7
45°	3093.9	2971.8	2857.8	2884.3	2870.0	2780.5	2986.0	6580.7	9161.7	10370.8	10378.9
47.5°	2979.9	2859.8	2745.9	2713.3	2711.3	2752.0	2756.0	6613.3	9878.2	11193.1	11007.9
50°	2874.1	2754.0	2635.9	2526.0	2568.8	2695.0	2585.1	6588.8	10950.9	12100.9	11583.9
52.5°	2764.2	2650.2	2519.9	2322.5	2434.4	2558.6	2432.4	6501.3	11606.3	12902.9	12593.5
55°	2638.0	2530.1	2353.0	2112.8	2249.2	2275.7	2275.7	6564.6	11885.2	13696.7	13888.1
57.5°	2469.0	2326.6	2045.7	1852.3	1974.4	1872.6	2108.8	3957.0	11425.1	13446.4	14189.3
60°	2277.7	2125.0	1827.9	1689.4	1726.1	1547.0	1797.3	2481.2	9469.0	11441.4	12727.8
62.5°	2025.3	1884.9	1638.6	1530.7	1455.4	1262.0	1447.2	1569.4	6491.1	8496.1	9373.4
65°	1856.4	1701.7	1481.8	1339.3	1184.6	1015.7	960.7	1030.0	3490.8	4754.9	5347.2
67.5°	1656.9	1504.2	1296.6	1117.5	993.3	871.2	775.5	751.1	1196.9	1583.6	1713.9
70°	1467.6	1321.0	1148.0	981.1	856.9	736.8	643.2	576.0	553.7	549.6	541.4
72.5°	1274.2	1137.8	993.3	838.6	702.2	592.3	508.9	431.5	399.0	388.8	378.6
75°	1044.2	936.3	791.8	624.9	515.0	413.2	348.1	297.2	268.7	258.5	246.3
77.5°	671.7	622.9	496.7	403.0	311.4	246.3	211.7	179.1	160.8	156.7	146.6
80°	358.2	333.8	274.8	232.0	185.2	150.6	132.3	114.0	103.8	99.7	95.7
82.5°	199.5	181.2	152.7	134.3	107.9	91.6	81.4	73.3	67.2	65.1	63.1
85°	89.6	77.3	61.1	57.0	50.9	46.8	44.8	40.7	38.7	36.6	34.6
87.5°	4.1	8.1	10.2	8.1	8.1	12.2	14.2	14.2	12.2	12.2	10.2
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°	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7
2.5°	4756.9	4818.0	4824.1	4844.4	4818.0	4811.9	4769.1	4744.7	4722.3	4716.2
5°	5127.4	5249.5	5298.4	5333.0	5300.4	5284.1	5190.5	5092.8	5037.8	5011.3
7.5°	5508.0	5691.2	5786.9	5829.6	5833.7	5760.4	5599.6	5416.4	5324.8	5290.2
10°	5847.9	6073.9	6200.1	6281.5	6253.0	6163.4	5943.6	5695.3	5579.2	5548.7
12.5°	6100.3	6316.1	6413.8	6466.7	6464.7	6415.8	6208.2	5939.5	5807.2	5776.7
15°	6263.2	6391.4	6397.5	6409.7	6444.3	6509.5	6401.6	6153.3	6006.7	5964.0
17.5°	6391.4	6340.5	6244.8	6212.3	6289.6	6470.8	6535.9	6334.4	6175.6	6139.0
20°	6472.8	6216.4	6047.4	5984.3	6073.9	6369.0	6617.3	6497.2	6332.4	6285.6
22.5°	6535.9	6100.3	5827.6	5784.8	5878.5	6259.1	6700.8	6690.6	6509.5	6444.3
25°	6635.7	6023.0	5672.9	5642.3	5729.9	6206.2	6812.7	6953.2	6792.4	6698.8
27.5°	6792.4	6014.8	5593.5	5583.3	5703.4	6253.0	6973.5	7337.9	7136.4	7067.2
30°	7010.2	6092.2	5611.8	5632.2	5778.7	6421.9	7223.9	7777.6	7576.1	7468.2
32.5°	7323.7	6299.8	5890.7	5978.2	6086.1	6692.7	7590.3	8253.9	8101.2	7942.4
35°	7736.9	6869.7	6715.0	7087.5	6985.8	7285.0	8032.0	8831.9	8646.7	8508.3
37.5°	8288.5	8038.1	8180.6	8693.5	8447.2	8404.5	8571.4	9357.1	9255.3	9116.9
40°	9062.0	9112.8	9375.4	10049.2	9692.9	9418.2	9232.9	9752.0	9786.6	9615.6
42.5°	9574.9	9809.0	10442.0	11207.3	10716.8	10059.3	9786.6	10256.8	10258.8	10104.1
45°	9766.2	10378.9	11702.0	12583.3	11763.0	10425.7	10091.9	10942.7	10922.4	10745.3
47.5°	9697.0	10859.3	13010.8	14358.3	13106.4	10686.3	10049.2	11919.8	12084.6	11816.0
50°	9552.5	11341.7	14539.4	16532.2	14755.2	10963.1	9984.0	13002.6	13275.4	13067.8
52.5°	9699.1	11879.1	16346.9	18779.3	16823.2	11404.8	10423.7	14392.9	14344.0	14093.7
55°	10163.1	12514.1	18543.2	21602.5	19094.8	12151.8	11553.4	15718.0	15221.3	14922.1
57.5°	10140.8	12968.0	20468.8	23835.5	21071.3	12764.5	11946.2	15858.4	14854.9	14476.3
60°	9204.4	12760.4	21201.5	25248.1	21667.7	12426.6	10653.7	14164.9	12534.5	12137.6
62.5°	6869.7	11323.4	19780.8	23479.2	19980.3	10733.1	8011.6	10167.2	9007.0	8337.3
65°	4394.6	8858.4	16629.9	19021.5	16469.1	8209.1	4771.2	5451.0	4270.4	4079.1
67.5°	1870.6	6253.0	12927.3	12713.6	12320.8	5318.7	1842.1	1534.8	1143.9	1123.6
70°	618.8	4254.2	7968.9	8479.8	7358.3	3663.9	608.6	515.0	512.9	494.6
72.5°	405.1	2283.8	4486.2	4995.1	4734.5	2108.8	368.4	344.0	352.1	344.0
75°	242.2	496.7	755.2	981.1	755.2	354.2	221.9	217.8	221.9	211.7
77.5°	142.5	138.4	134.3	134.3	132.3	122.1	112.0	107.9	109.9	112.0
80°	91.6	87.5	83.5	81.4	71.2	67.2	63.1	59.0	59.0	61.1
82.5°	59.0	55.0	50.9	44.8	36.6	30.5	28.5	24.4	24.4	26.5
85°	30.5	24.4	18.3	14.2	8.1	4.1	0.0	0.0	0.0	0.0
87.5°	6.1	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)