

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: P638865

Luminaire Tested: GWS-SA4F-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638865
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-SA4F-760-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26719.6 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

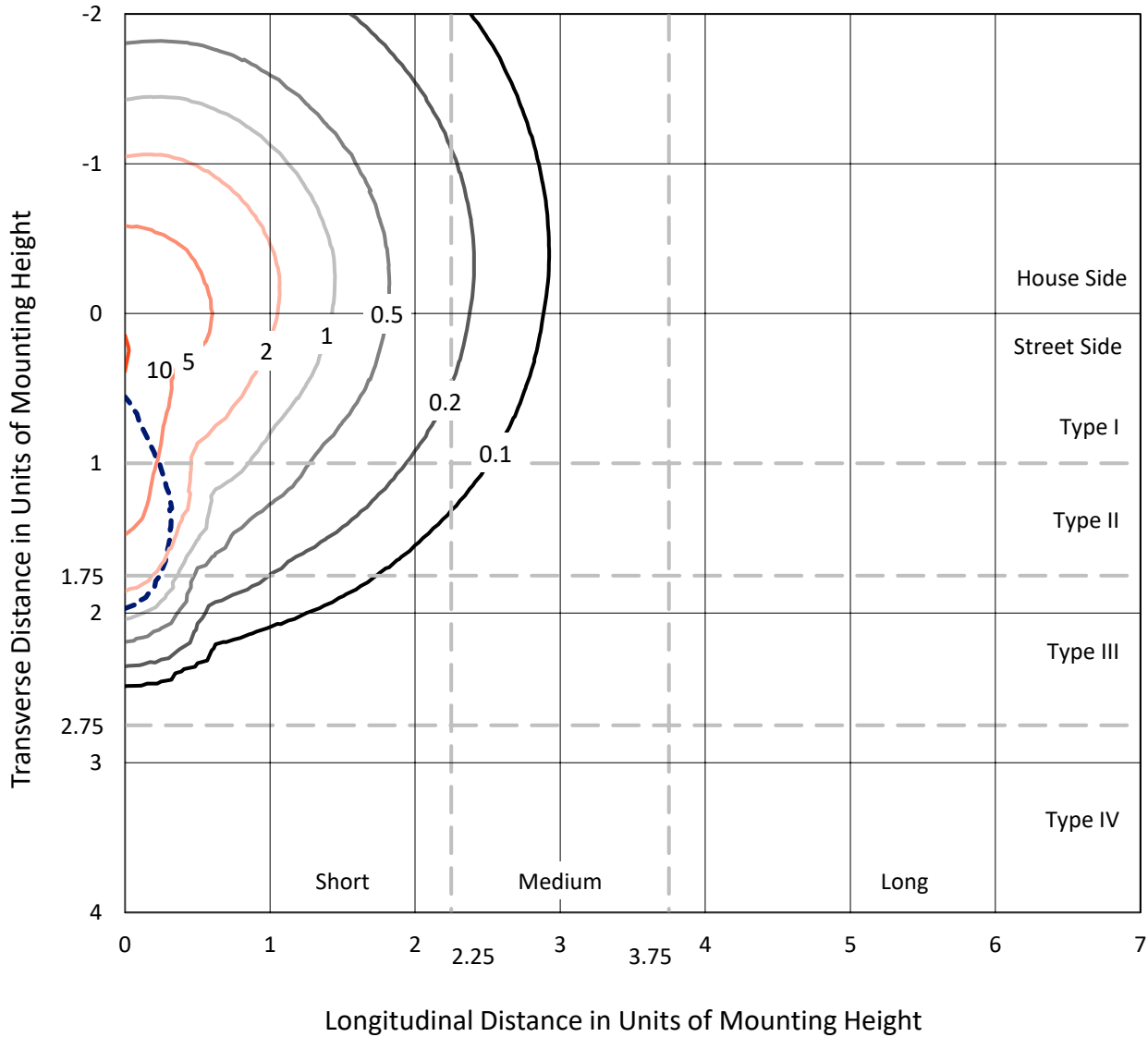
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

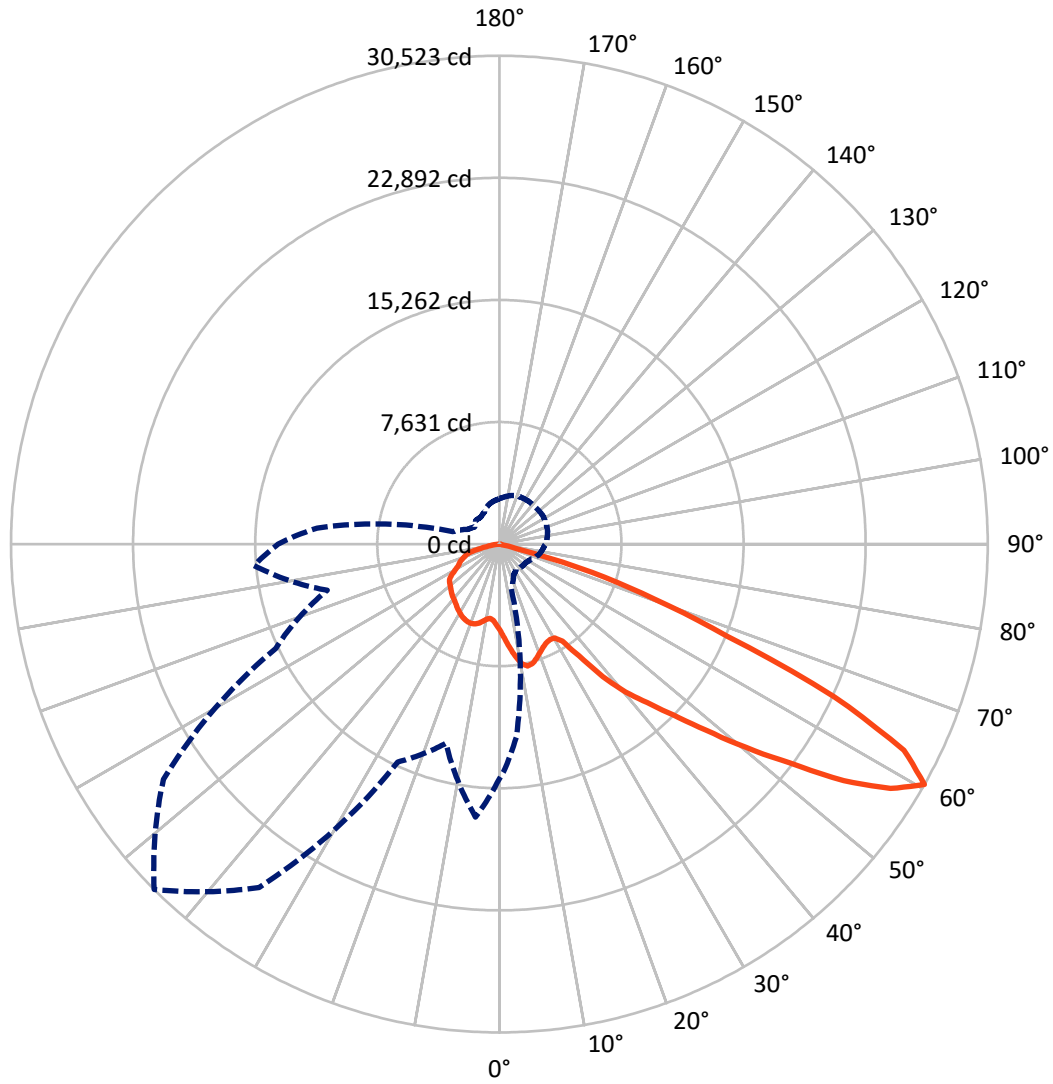
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	9140.5	0.0	9140.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	17579.1	0.0	17579.1
	% Fixture	65.8	0.0	65.8
Total	Lumens	26719.6	0.0	26719.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.5	2.0
10°-20°	1688.8	6.3
20°-30°	2750.3	10.3
30°-40°	3863.6	14.5
40°-50°	5287.0	19.8
50°-60°	6782.9	25.4
60°-70°	4567.3	17.1
70°-80°	1141.8	4.3
80°-90°	111.3	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°	26719.6	100.0
0°-180°	26719.6	100.0

Coefficient of Utilization



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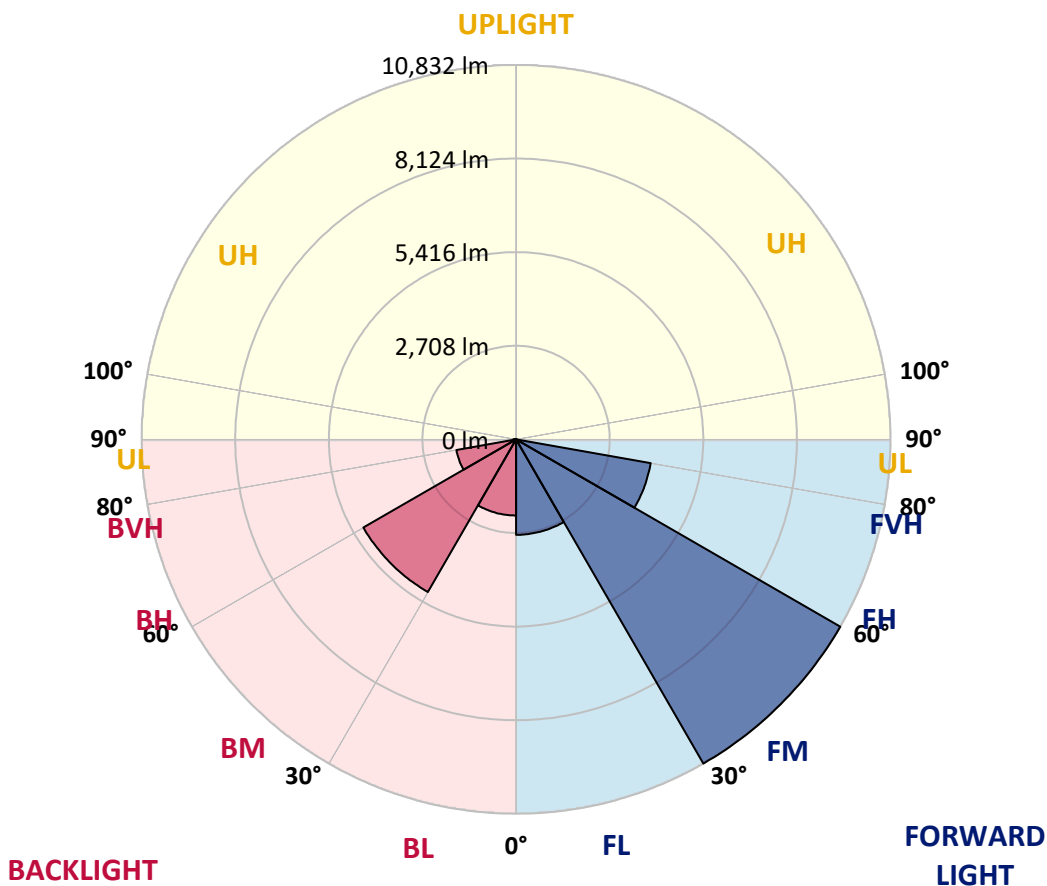
CATALOG NUMBER: GWS-SA4F-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.2	10.3			
FM (30°-60°)	10832.3	40.5			
FH (60°-80°)	3955.6	14.8			G2/5000
FVH (80°-90°)	28.9	0.1			G1/100
BL (0°-30°)	2203.4	8.2	B3/2500		
BM (30°-60°)	5101.2	19.1	B4/8500		
BH (60°-80°)	1753.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	82.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1
2.5°	5701.6	5689.3	5677.0	5581.0	5556.4	5487.5	5438.3	5376.8	5288.2	5239.0	5197.1
5°	6058.4	6038.7	5972.3	5775.4	5647.4	5507.2	5391.5	5263.6	5128.2	5039.6	4970.7
7.5°	6395.5	6390.6	6277.4	5952.6	5745.9	5544.1	5386.6	5199.6	5005.2	4872.3	4783.7
10°	6708.0	6671.1	6535.8	6112.5	5841.8	5610.5	5440.7	5234.0	5007.6	4828.0	4709.9
12.5°	6983.6	6936.9	6749.9	6260.2	5925.5	5640.1	5455.5	5285.7	5135.6	4985.5	4850.2
15°	7210.0	7153.4	6963.9	6398.0	5999.3	5622.8	5364.5	5231.6	5283.2	5349.7	5199.6
17.5°	7421.6	7362.6	7131.3	6498.9	6021.5	5517.0	5140.5	5083.9	5344.8	5647.4	5578.5
20°	7598.8	7532.4	7264.2	6548.1	5982.1	5315.2	4850.2	4948.6	5293.1	5654.8	5765.6
22.5°	7790.8	7736.6	7414.3	6619.4	5932.9	5037.2	4606.5	4847.7	5204.5	5521.9	5689.3
25°	8098.4	8031.9	7648.0	6744.9	5908.3	4776.3	4431.8	4749.3	5081.5	5369.4	5499.8
27.5°	8543.8	8420.7	7967.9	6963.9	5935.3	4530.3	4321.1	4628.7	4938.7	5184.8	5290.6
30°	9028.5	8880.9	8322.3	7190.3	5974.7	4380.1	4262.0	4490.9	4719.7	4965.8	5081.5
32.5°	9601.9	9471.5	8701.2	7360.1	5891.1	4311.2	4217.7	4340.8	4522.9	4719.7	4815.7
35°	10286.0	10052.2	9114.6	7497.9	5620.4	4210.4	4178.4	4175.9	4271.9	4463.8	4572.1
37.5°	11021.7	10770.7	9624.0	7645.6	5199.6	4050.4	4084.9	3981.5	4070.1	4222.7	4345.7
40°	11624.6	11361.3	10138.3	7847.4	4673.0	3799.4	3878.2	3767.4	3821.6	3979.0	4116.8
42.5°	12215.2	11934.7	10618.2	8076.2	4163.6	3553.3	3592.7	3550.9	3568.1	3733.0	3924.9
45°	12990.3	12675.4	11208.8	8238.6	3705.9	3358.9	3322.0	3250.7	3341.7	3555.8	3760.0
47.5°	14284.7	13908.2	12175.8	8344.4	3373.7	3248.2	3078.4	3036.6	3149.8	3388.5	3600.1
50°	15798.1	15473.2	13721.2	8339.5	3125.2	3154.7	2842.2	2805.3	2992.3	3233.4	3457.4
52.5°	17038.3	16708.5	15042.6	8093.4	2920.9	2955.4	2704.4	2601.0	2856.9	3080.9	3304.8
55°	18039.8	17668.2	15650.4	7064.8	2662.5	2637.9	2554.3	2364.8	2687.1	2928.3	3137.5
57.5°	17500.9	17058.0	14914.7	5371.8	2396.8	2241.8	2295.9	2155.6	2455.8	2758.5	2960.3
60°	14673.5	14274.9	12116.8	2859.4	2108.9	1872.6	1985.8	2008.0	2202.4	2554.3	2761.0
62.5°	10079.3	9788.9	8211.5	1734.8	1663.5	1503.5	1680.7	1840.6	1985.8	2283.6	2463.2
65°	4931.4	4845.2	4107.0	1112.3	1163.9	1215.6	1392.8	1587.2	1801.3	2062.1	2251.6
67.5°	1358.3	1368.2	1245.1	868.6	917.9	1060.6	1200.8	1355.9	1570.0	1811.1	2003.1
70°	598.0	607.8	627.5	669.3	762.8	893.3	1038.4	1198.4	1395.2	1597.0	1781.6
72.5°	415.9	425.7	455.2	509.4	593.0	716.1	853.9	1006.4	1210.7	1380.5	1533.1
75°	255.9	263.3	290.4	337.1	393.7	487.2	622.6	762.8	942.5	1097.5	1232.8
77.5°	135.3	130.4	147.6	179.6	228.9	278.1	369.1	457.7	585.7	711.2	824.4
80°	73.8	71.4	81.2	98.4	113.2	152.6	214.1	273.1	347.0	418.3	479.8
82.5°	32.0	29.5	32.0	41.8	51.7	73.8	108.3	150.1	191.9	241.2	280.5
85°	0.0	0.0	0.0	2.5	12.3	19.7	36.9	54.1	78.7	108.3	132.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	22.1
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°	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1
2.5°	5172.5	5111.0	5106.1	5056.9	5061.8	5064.2	5015.0	4995.3	5012.6	5032.2	5022.4
5°	4946.1	4882.1	4855.1	4808.3	4803.4	4781.3	4761.6	4737.0	4754.2	4771.4	4781.3
7.5°	4749.3	4707.4	4690.2	4677.9	4682.8	4673.0	4633.6	4611.5	4609.0	4616.4	4626.2
10°	4685.3	4650.8	4673.0	4707.4	4732.0	4749.3	4707.4	4670.5	4636.1	4621.3	4621.3
12.5°	4823.1	4778.8	4823.1	4860.0	4909.2	4921.5	4874.8	4835.4	4823.1	4837.8	4867.4
15°	5128.2	5024.9	5022.4	5044.6	5083.9	5103.6	5059.3	5039.6	5039.6	5133.1	5207.0
17.5°	5433.4	5263.6	5192.2	5179.9	5204.5	5211.9	5175.0	5157.7	5202.0	5384.1	5521.9
20°	5647.4	5440.7	5285.7	5256.2	5263.6	5266.0	5236.5	5224.2	5288.2	5509.6	5625.3
22.5°	5625.3	5472.7	5283.2	5246.3	5258.6	5253.7	5226.6	5221.7	5273.4	5465.3	5519.5
25°	5472.7	5354.6	5194.7	5170.1	5189.7	5187.3	5160.2	5147.9	5170.1	5298.0	5302.9
27.5°	5298.0	5194.7	5056.9	5049.5	5081.5	5098.7	5051.9	5015.0	5007.6	5093.8	5074.1
30°	5088.8	5012.6	4901.8	4906.8	4965.8	4975.7	4919.1	4864.9	4850.2	4896.9	4869.8
32.5°	4840.3	4815.7	4756.6	4768.9	4825.5	4845.2	4786.2	4729.6	4712.4	4727.1	4670.5
35°	4628.7	4618.8	4623.8	4645.9	4695.1	4709.9	4660.7	4616.4	4591.8	4540.1	4466.3
37.5°	4409.7	4436.7	4508.1	4549.9	4577.0	4572.1	4545.0	4513.0	4473.7	4377.7	4286.6
40°	4205.4	4274.3	4402.3	4449.0	4458.9	4461.4	4441.7	4414.6	4365.4	4237.4	4134.1
42.5°	4047.9	4124.2	4294.0	4365.4	4370.3	4375.2	4355.5	4333.4	4264.5	4094.7	3993.8
45°	3883.1	3984.0	4183.3	4269.4	4264.5	4262.0	4244.8	4235.0	4153.8	3956.9	3846.2
47.5°	3742.8	3860.9	4075.0	4148.8	4146.4	4143.9	4131.6	4131.6	4050.4	3836.3	3710.8
50°	3605.0	3740.4	3964.3	4025.8	4030.7	4025.8	4020.9	4028.3	3932.3	3703.4	3580.4
52.5°	3454.9	3607.5	3841.2	3897.8	3927.4	3939.7	3939.7	3922.4	3809.3	3570.6	3435.2
55°	3290.0	3435.2	3705.9	3782.2	3806.8	3828.9	3828.9	3794.5	3688.7	3447.5	3302.3
57.5°	3085.8	3213.7	3427.8	3504.1	3563.2	3577.9	3577.9	3521.3	3435.2	3203.9	3085.8
60°	2864.3	2975.1	3120.2	3201.4	3245.7	3216.2	3238.4	3223.6	3154.7	2940.6	2842.2
62.5°	2569.0	2682.2	2842.2	2925.8	2945.5	2916.0	2945.5	2943.1	2849.6	2657.6	2539.5
65°	2357.4	2468.1	2625.6	2733.9	2765.9	2758.5	2778.2	2748.7	2633.0	2450.9	2337.7
67.5°	2106.4	2224.5	2406.6	2527.2	2593.6	2601.0	2628.1	2566.6	2448.5	2249.1	2106.4
70°	1867.7	1968.6	2108.9	2222.1	2315.6	2362.3	2367.2	2278.7	2131.0	1966.1	1862.8
72.5°	1616.7	1720.1	1889.9	2012.9	2131.0	2185.2	2185.2	2076.9	1916.9	1734.8	1624.1
75°	1311.6	1407.6	1562.6	1695.5	1830.8	1899.7	1897.2	1803.7	1626.6	1454.3	1338.7
77.5°	888.3	959.7	1058.1	1159.0	1178.7	1232.8	1259.9	1141.8	1043.4	949.9	846.5
80°	516.8	561.1	615.2	671.8	684.1	701.3	657.0	612.7	561.1	499.5	452.8
82.5°	302.7	332.2	359.3	403.6	410.9	415.9	376.5	356.8	315.0	278.1	248.5
85°	147.6	157.5	182.1	204.2	194.4	189.5	172.3	152.6	135.3	120.6	105.8
87.5°	29.5	29.5	44.3	41.8	34.5	29.5	17.2	22.1	4.9	4.9	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°	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1
2.5°	5054.4	5096.2	5147.9	5216.8	5295.6	5379.2	5460.4	5521.9	5583.5	5674.5	5659.7
5°	4796.0	4867.4	4948.6	5054.4	5182.4	5327.5	5490.0	5652.4	5827.1	5974.7	6038.7
7.5°	4645.9	4724.7	4820.6	4958.4	5123.3	5300.5	5529.3	5792.6	6075.6	6270.0	6390.6
10°	4645.9	4746.8	4872.3	5005.2	5150.4	5332.5	5615.4	5945.2	6309.4	6565.3	6705.6
12.5°	4914.1	5015.0	5042.1	5037.2	5118.4	5320.2	5684.4	6105.1	6540.7	6811.4	6983.6
15°	5332.5	5366.9	5162.7	4975.7	4988.0	5231.6	5716.3	6233.1	6740.0	7064.8	7251.9
17.5°	5613.0	5521.9	5157.7	4830.5	4761.6	5081.5	5716.3	6356.1	6951.6	7318.3	7493.0
20°	5635.1	5408.7	5032.2	4690.2	4513.0	4882.1	5677.0	6449.6	7155.9	7561.9	7748.9
22.5°	5440.7	5216.8	4899.4	4569.6	4308.8	4641.0	5613.0	6521.0	7330.6	7790.8	8022.1
25°	5219.3	5032.2	4764.0	4446.6	4168.5	4397.4	5553.9	6641.6	7574.2	8100.8	8334.6
27.5°	5002.7	4845.2	4601.6	4343.2	4089.8	4185.7	5517.0	6818.8	7864.6	8541.3	8743.1
30°	4791.1	4648.4	4426.9	4244.8	4047.9	4047.9	5485.0	7023.0	8248.5	9035.9	9237.7
32.5°	4577.0	4441.7	4262.0	4148.8	4023.3	3993.8	5396.4	7214.9	8644.6	9577.3	9784.0
35°	4377.7	4242.3	4104.5	4057.8	4011.0	3952.0	5177.4	7365.0	9031.0	10209.7	10386.9
37.5°	4190.7	4060.3	3956.9	3944.6	3949.5	3838.8	4832.9	7490.5	9513.3	10856.9	10950.4
40°	4028.3	3883.1	3801.9	3799.4	3824.0	3656.7	4397.4	7670.2	10064.5	11405.6	11366.2
42.5°	3883.1	3730.5	3632.1	3654.2	3639.5	3474.6	3971.7	7835.1	10544.3	11919.9	11841.2
45°	3740.4	3592.7	3454.9	3486.9	3469.7	3361.4	3609.9	7955.6	11075.9	12537.6	12547.4
47.5°	3602.5	3457.4	3319.6	3280.2	3277.7	3326.9	3331.9	7995.0	11942.1	13531.7	13307.8
50°	3474.6	3329.4	3186.7	3053.8	3105.5	3258.0	3125.2	7965.5	13238.9	14629.2	14004.2
52.5°	3341.7	3203.9	3046.4	2807.7	2943.1	3093.2	2940.6	7859.7	14031.2	15598.7	15224.7
55°	3189.1	3058.7	2844.6	2554.3	2719.1	2751.1	2751.1	6836.0	14368.4	16558.4	16789.7
57.5°	2984.9	2812.6	2473.1	2239.3	2386.9	2263.9	2549.3	4783.7	13812.2	16255.8	17153.9
60°	2753.6	2569.0	2209.8	2042.4	2086.7	1870.2	2172.8	2999.7	11447.4	13831.9	15387.1
62.5°	2448.5	2278.7	1980.9	1850.5	1759.4	1525.7	1749.6	1897.2	7847.4	10271.2	11331.8
65°	2244.2	2057.2	1791.4	1619.2	1432.2	1227.9	1161.5	1245.1	4220.2	5748.3	6464.4
67.5°	2003.1	1818.5	1567.5	1351.0	1200.8	1053.2	937.5	908.0	1446.9	1914.5	2072.0
70°	1774.2	1597.0	1387.9	1186.1	1036.0	890.8	777.6	696.4	669.3	664.4	654.6
72.5°	1540.4	1375.6	1200.8	1013.8	849.0	716.1	615.2	521.7	482.3	470.0	457.7
75°	1262.4	1131.9	957.2	755.5	622.6	499.5	420.8	359.3	324.8	312.5	297.8
77.5°	812.1	753.0	600.4	487.2	376.5	297.8	255.9	216.5	194.4	189.5	177.2
80°	433.1	403.6	332.2	280.5	223.9	182.1	159.9	137.8	125.5	120.6	115.7
82.5°	241.2	219.0	184.6	162.4	130.4	110.7	98.4	88.6	81.2	78.7	76.3
85°	108.3	93.5	73.8	68.9	61.5	56.6	54.1	49.2	46.8	44.3	41.8
87.5°	4.9	9.8	12.3	9.8	9.8	14.8	17.2	17.2	14.8	14.8	12.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1	5389.1
2.5°	5750.8	5824.6	5832.0	5856.6	5824.6	5817.2	5765.6	5736.0	5709.0	5701.6
5°	6198.6	6346.3	6405.4	6447.2	6407.8	6388.1	6274.9	6156.8	6090.4	6058.4
7.5°	6658.8	6880.3	6995.9	7047.6	7052.5	6963.9	6769.5	6548.1	6437.3	6395.5
10°	7069.8	7342.9	7495.5	7593.9	7559.4	7451.2	7185.4	6885.2	6744.9	6708.0
12.5°	7374.9	7635.7	7753.8	7817.8	7815.4	7756.3	7505.3	7180.5	7020.5	6983.6
15°	7571.8	7726.8	7734.2	7748.9	7790.8	7869.5	7739.1	7438.9	7261.7	7210.0
17.5°	7726.8	7665.3	7549.6	7510.2	7603.7	7822.7	7901.5	7657.9	7465.9	7421.6
20°	7825.2	7515.2	7310.9	7234.6	7342.9	7699.7	7999.9	7854.7	7655.4	7598.8
22.5°	7901.5	7374.9	7045.1	6993.5	7106.7	7566.8	8100.8	8088.5	7869.5	7790.8
25°	8022.1	7281.4	6858.1	6821.2	6927.0	7502.9	8236.2	8405.9	8211.5	8098.4
27.5°	8211.5	7271.5	6762.2	6749.9	6895.0	7559.4	8430.6	8871.0	8627.4	8543.8
30°	8474.8	7365.0	6784.3	6808.9	6986.1	7763.7	8733.2	9402.6	9158.9	9028.5
32.5°	8853.8	7616.0	7121.4	7227.2	7357.7	8091.0	9176.2	9978.4	9793.8	9601.9
35°	9353.3	8305.1	8118.0	8568.4	8445.3	8807.1	9710.1	10677.2	10453.3	10286.0
37.5°	10020.2	9717.5	9889.8	10509.9	10212.1	10160.5	10362.3	11312.1	11189.1	11021.7
40°	10955.3	11016.8	11334.2	12148.8	11718.1	11385.9	11162.0	11789.5	11831.3	11624.6
42.5°	11575.4	11858.4	12623.7	13548.9	12955.9	12161.1	11831.3	12399.8	12402.2	12215.2
45°	11806.7	12547.4	14146.9	15212.4	14220.7	12604.0	12200.4	13229.0	13204.4	12990.3
47.5°	11723.0	13128.1	15729.2	17358.2	15844.8	12919.0	12148.8	14410.2	14609.5	14284.7
50°	11548.3	13711.3	17577.2	19986.3	17838.0	13253.6	12070.0	15719.3	16049.1	15798.1
52.5°	11725.5	14361.0	19762.3	22703.0	20338.2	13787.6	12601.5	17400.0	17341.0	17038.3
55°	12286.6	15128.7	22417.5	26116.0	23084.4	14690.7	13967.3	19002.0	18401.5	18039.8
57.5°	12259.5	15677.5	24745.4	28815.5	25473.8	15431.4	14442.2	19171.8	17958.6	17500.9
60°	11127.5	15426.5	25631.3	30523.2	26194.8	15022.9	12879.6	17124.4	15153.3	14673.5
62.5°	8305.1	13689.2	23913.6	28384.8	24154.8	12975.6	9685.5	12291.5	10888.9	10079.3
65°	5312.8	10709.2	20104.4	22995.8	19910.0	9924.2	5768.0	6589.9	5162.7	4931.4
67.5°	2261.4	7559.4	15628.3	15369.9	14895.0	6430.0	2227.0	1855.4	1382.9	1358.3
70°	748.1	5143.0	9633.9	10251.5	8895.6	4429.4	735.8	622.6	620.1	598.0
72.5°	489.7	2761.0	5423.5	6038.7	5723.7	2549.3	445.4	415.9	425.7	415.9
75°	292.8	600.4	912.9	1186.1	912.9	428.2	268.2	263.3	268.2	255.9
77.5°	172.3	167.3	162.4	162.4	159.9	147.6	135.3	130.4	132.9	135.3
80°	110.7	105.8	100.9	98.4	86.1	81.2	76.3	71.4	71.4	73.8
82.5°	71.4	66.4	61.5	54.1	44.3	36.9	34.5	29.5	29.5	32.0
85°	36.9	29.5	22.1	17.2	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	7.4	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)