

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: P640354

Luminaire Tested: GWS-SA5D-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640354
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-SA5D-760-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23712.9 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

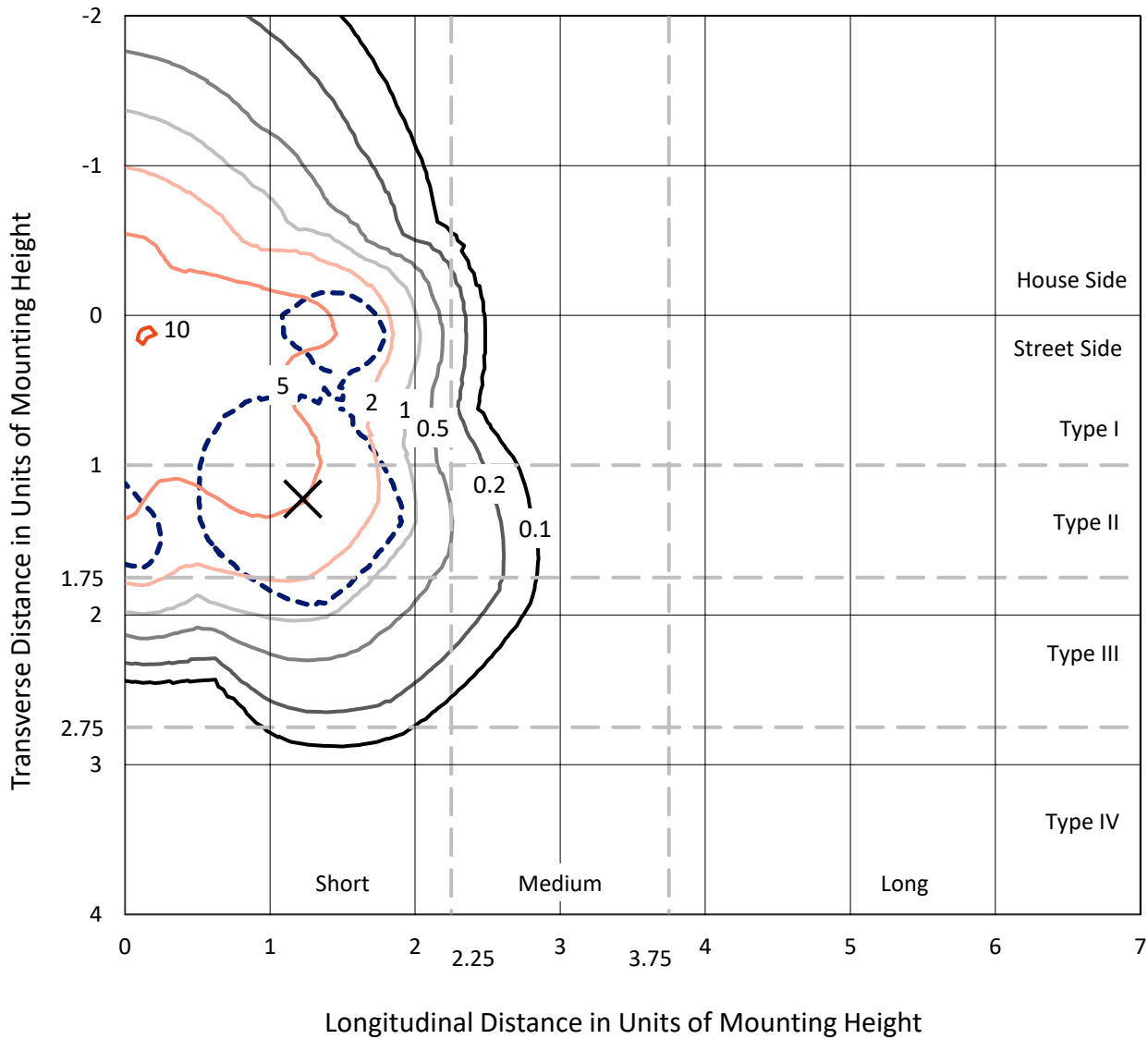
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

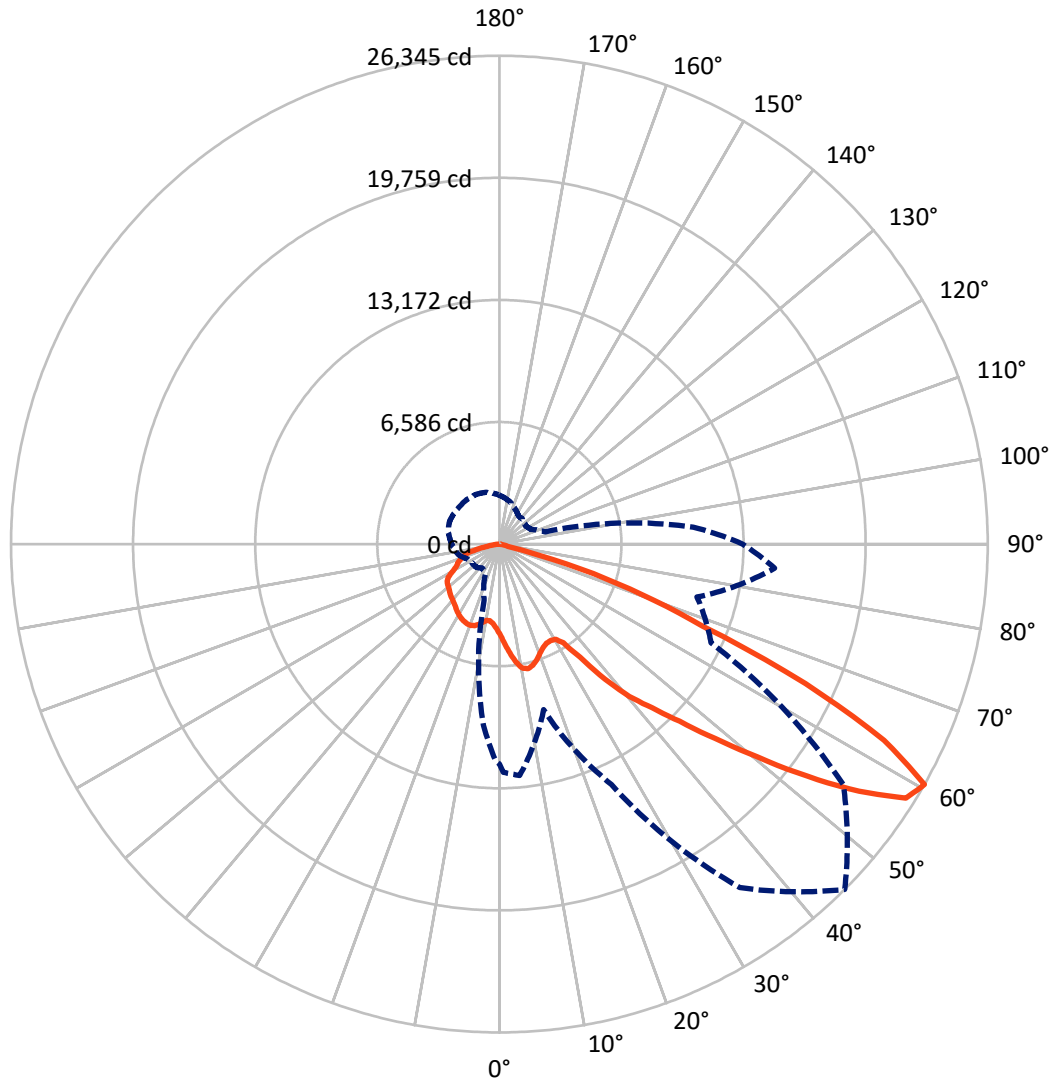
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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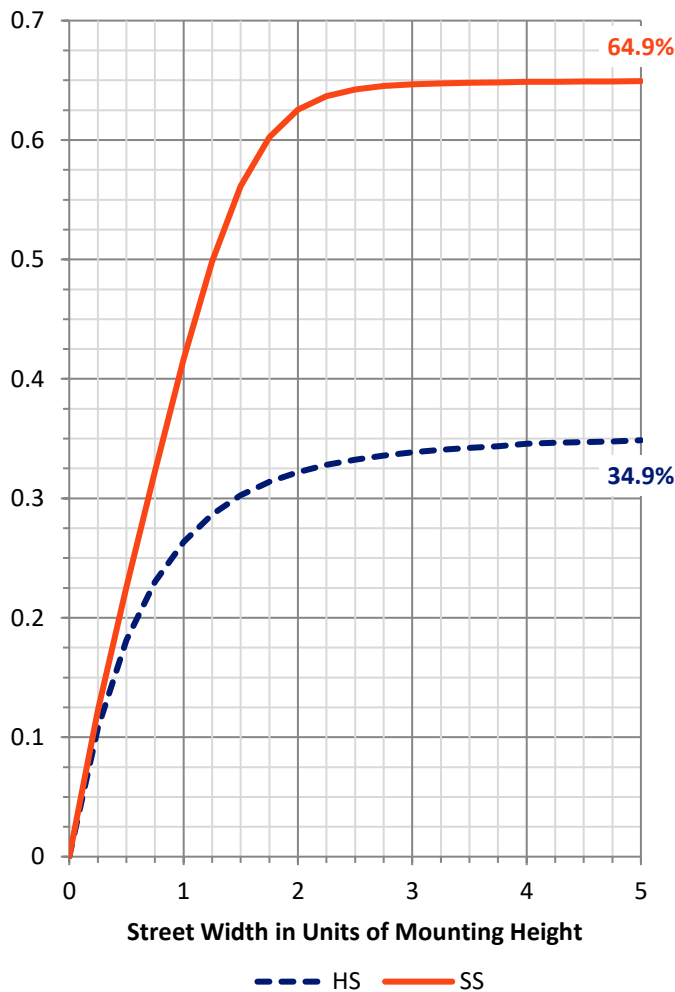
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8312.2	0.0	8312.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	15400.7	0.0	15400.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	23712.9	0.0	23712.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	2.0
10°-20°	1501.9	6.3
20°-30°	2439.6	10.3
30°-40°	3440.6	14.5
40°-50°	4754.8	20.1
50°-60°	6120.9	25.8
60°-70°	3878.2	16.4
70°-80°	995.2	4.2
80°-90°	106.4	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°	23712.9	100.0
0°-180°	23712.9	100.0

Coefficient of Utilization



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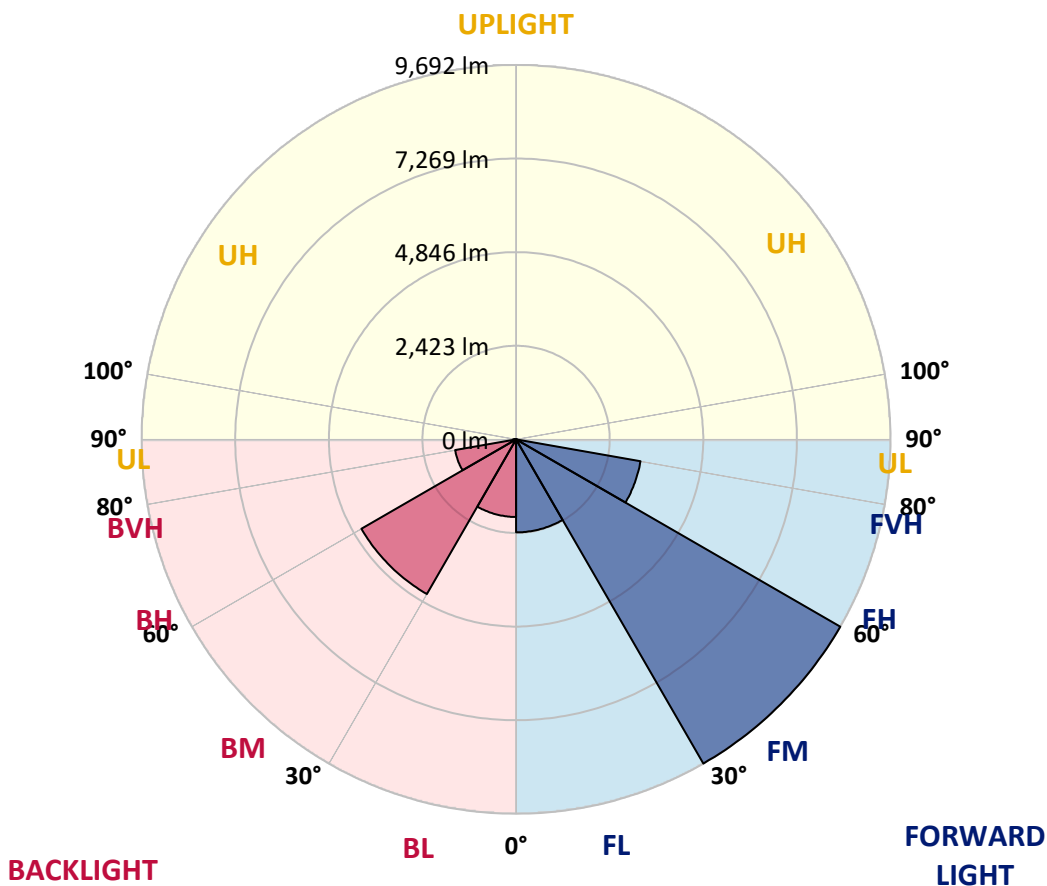
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2407.8	10.2			
FM (30°-60°)	9692.5	40.9			
FH (60°-80°)	3271.6	13.8			G2/5000
FVH (80°-90°)	28.9	0.1			G1/100
BL (0°-30°)	2009.0	8.5	B3/2500		
BM (30°-60°)	4623.8	19.5	B3/5000		
BH (60°-80°)	1601.8	6.8	B3/2500		G3/2500
BVH (80°-90°)	77.5	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°	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3
2.5°	5095.1	5129.9	5151.6	5192.9	5266.8	5308.0	5353.7	5303.7	5316.7	5310.2	5229.8
5°	5397.1	5438.4	5494.9	5616.6	5753.5	5829.5	5901.2	5890.3	5823.0	5710.0	5629.6
7.5°	5679.6	5727.4	5825.2	6022.9	6225.0	6342.3	6429.2	6372.7	6316.2	6138.0	5936.0
10°	5901.2	5929.5	6062.0	6327.1	6561.7	6694.3	6800.7	6787.7	6709.5	6509.6	6238.0
12.5°	6109.8	6129.4	6272.8	6537.8	6748.6	6807.3	6894.2	6922.4	6896.3	6746.4	6479.2
15°	6333.6	6370.5	6503.1	6705.1	6800.7	6739.9	6770.3	6848.5	6922.4	6922.4	6676.9
17.5°	6542.2	6574.8	6709.5	6796.4	6705.1	6544.3	6553.0	6653.0	6829.0	7013.7	6857.2
20°	6726.9	6757.3	6889.8	6807.3	6518.3	6283.6	6277.1	6398.8	6683.4	7072.3	7050.6
22.5°	6928.9	6972.4	7083.2	6815.9	6344.5	6046.8	6044.6	6170.6	6555.2	7131.0	7272.2
25°	7215.7	7283.1	7339.6	6892.0	6251.0	5892.5	5920.8	6040.3	6513.9	7226.6	7600.3
27.5°	7641.6	7695.9	7691.6	7050.6	6246.7	5829.5	5888.2	6027.2	6587.8	7396.1	7945.8
30°	8102.2	8130.5	8084.8	7272.2	6346.6	5868.6	5955.5	6120.7	6774.7	7676.4	8454.2
32.5°	8612.8	8647.6	8560.7	7604.7	6579.1	6157.6	6348.8	6429.2	7037.6	8080.5	8993.0
35°	9199.5	9266.8	9086.5	8043.6	7263.5	7211.4	7489.5	7385.2	7596.0	8558.5	9568.8
37.5°	9816.5	9818.7	9560.1	8693.2	8606.3	8695.4	9251.6	8925.7	8780.1	9090.8	10155.5
40°	10340.2	10327.1	9929.5	9568.8	9775.2	10129.4	10800.8	10301.0	9918.6	9805.7	10642.2
42.5°	10863.8	10816.0	10414.0	10125.1	10581.3	11309.2	12067.5	11454.8	10648.7	10455.3	11122.4
45°	11533.0	11517.8	11033.3	10346.7	11309.2	12630.2	13636.2	12643.3	11081.1	10833.4	11921.9
47.5°	12612.9	12539.0	11637.3	10329.3	11991.5	14390.2	15661.2	14140.3	11383.1	10842.1	13212.5
50°	13668.8	13577.6	12358.7	10327.1	12695.4	16215.3	18051.3	15958.9	11691.6	10894.2	14524.9
52.5°	14735.6	14735.6	13542.8	10572.6	13434.2	18253.3	20812.9	18225.1	12217.4	11576.5	16139.3
55°	15370.1	15539.6	14874.7	10987.6	14298.9	20652.1	23544.0	20671.6	13030.0	12808.4	17629.8
57.5°	14564.0	14881.2	14785.6	10698.7	14809.5	22414.2	25860.2	22527.2	13432.0	12954.0	17406.0
60°	11867.6	12308.7	12528.1	9238.6	14305.4	22618.4	26344.7	22648.8	12602.0	11031.1	14909.5
62.5°	7889.3	8252.1	8586.7	6600.8	12384.7	20347.9	23300.7	20354.4	10524.8	8232.6	10329.3
65°	3869.7	4139.1	4499.8	3902.3	9675.3	17001.8	18166.4	16447.8	7613.3	4608.4	5268.9
67.5°	1012.5	1088.6	1138.5	1514.4	6931.1	12215.2	11848.1	12030.6	4890.9	1505.7	1377.5
70°	525.8	530.2	528.0	625.8	4684.5	7763.3	8165.2	7554.7	3413.4	630.1	543.2
72.5°	375.9	378.1	371.5	421.5	2261.8	4447.6	4608.4	4558.4	1788.2	373.7	371.5
75°	245.5	247.7	243.3	247.7	341.1	506.3	467.1	491.0	297.7	236.8	236.8
77.5°	145.6	147.7	145.6	149.9	145.6	145.6	134.7	134.7	128.2	128.2	130.4
80°	97.8	97.8	95.6	99.9	91.3	91.3	86.9	84.7	78.2	76.0	76.0
82.5°	58.7	60.8	58.7	58.7	54.3	54.3	50.0	47.8	41.3	41.3	39.1
85°	30.4	30.4	28.2	28.2	23.9	21.7	17.4	17.4	13.0	10.9	10.9
87.5°	4.3	4.3	2.2	2.2	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°	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3
2.5°	5208.1	5164.6	5099.5	5036.5	4977.8	4917.0	4847.4	4775.7	4714.9	4651.9	4619.3
5°	5523.2	5434.1	5264.6	5114.7	4980.0	4869.2	4749.7	4647.5	4551.9	4473.7	4434.6
7.5°	5807.8	5668.7	5412.3	5175.5	4993.0	4840.9	4675.8	4523.7	4395.5	4299.9	4263.0
10°	6070.7	5905.6	5568.8	5268.9	5056.0	4886.5	4684.5	4478.1	4308.6	4182.6	4152.1
12.5°	6283.6	6094.6	5692.6	5345.0	5092.9	4910.4	4732.3	4554.1	4386.8	4223.8	4197.8
15°	6472.6	6248.9	5786.1	5392.8	5079.9	4847.4	4697.5	4675.8	4675.8	4491.1	4438.9
17.5°	6635.6	6390.1	5862.1	5414.5	4997.3	4660.6	4569.3	4758.3	4971.3	4838.7	4721.4
20°	6822.5	6524.8	5925.1	5414.5	4845.3	4423.7	4415.0	4736.6	5051.7	5053.8	4930.0
22.5°	7011.5	6681.2	5999.0	5395.0	4636.7	4150.0	4310.8	4649.7	4930.0	5049.5	4964.8
25°	7317.9	6898.5	6116.3	5379.8	4393.3	3963.1	4217.3	4534.5	4771.4	4897.4	4843.1
27.5°	7706.8	7185.3	6294.5	5403.7	4152.1	3852.3	4117.4	4384.6	4599.7	4710.5	4671.4
30°	8141.3	7515.6	6485.7	5444.9	3978.3	3795.8	3997.9	4213.0	4404.2	4515.0	4497.6
32.5°	8695.4	7874.1	6650.8	5388.4	3880.5	3767.6	3871.9	4026.1	4210.8	4280.3	4295.5
35°	9358.1	8269.5	6776.8	5166.8	3791.5	3737.1	3735.0	3830.6	3960.9	4071.7	4082.6
37.5°	9968.6	8732.3	6915.9	4786.6	3630.7	3661.1	3574.2	3630.7	3758.9	3869.7	3913.1
40°	10572.6	9201.6	7109.3	4302.1	3419.9	3491.6	3389.5	3428.6	3530.7	3676.3	3745.8
42.5°	11159.3	9625.3	7313.5	3806.7	3209.2	3254.8	3178.7	3217.9	3324.3	3506.8	3585.1
45°	11798.1	10198.9	7472.1	3339.5	3026.7	3007.1	2946.3	3002.8	3163.5	3363.4	3456.9
47.5°	13006.1	11102.8	7576.4	3028.8	2928.9	2787.6	2718.1	2839.8	3022.3	3224.4	3337.4
50°	14481.4	12410.8	7546.0	2831.1	2844.1	2561.7	2537.8	2698.6	2894.1	3104.9	3228.7
52.5°	15650.4	13694.9	7200.5	2642.1	2679.0	2418.3	2348.8	2583.4	2770.3	2985.4	3113.6
55°	16543.4	14127.3	6140.2	2418.3	2409.6	2314.0	2168.4	2463.9	2646.4	2846.3	2985.4
57.5°	15815.5	13164.7	4551.9	2109.7	2057.6	2107.6	1966.3	2261.8	2494.3	2692.0	2815.9
60°	13125.6	10496.6	2535.6	1868.6	1720.8	1842.5	1820.8	2048.9	2329.2	2537.8	2644.2
62.5°	8910.5	6989.8	1503.5	1477.5	1394.9	1568.7	1683.9	1833.8	2109.7	2279.2	2379.2
65°	4441.1	3396.0	999.5	1105.9	1116.8	1290.6	1507.9	1673.0	1903.3	2077.2	2177.1
67.5°	1288.4	1056.0	760.5	845.2	962.5	1101.6	1275.4	1471.0	1694.8	1901.2	2018.5
70°	556.2	562.7	604.0	704.0	819.1	962.5	1136.4	1327.6	1516.6	1675.2	1764.3
72.5°	393.3	408.5	454.1	556.2	664.9	801.7	975.6	1160.3	1297.1	1457.9	1551.3
75°	252.0	262.9	299.8	378.1	458.5	591.0	756.1	925.6	1066.8	1182.0	1271.1
77.5°	139.1	141.2	171.6	217.3	271.6	356.3	478.0	610.5	714.8	780.0	860.4
80°	80.4	80.4	95.6	123.8	156.4	208.6	275.9	341.1	404.1	445.4	484.5
82.5°	43.5	43.5	50.0	67.4	84.7	115.2	154.3	186.9	226.0	247.7	273.8
85°	13.0	13.0	17.4	23.9	30.4	43.5	60.8	78.2	95.6	110.8	126.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3
2.5°	4612.8	4582.3	4565.0	4543.2	4549.8	4530.2	4519.3	4525.9	4486.7	4525.9	4565.0
5°	4419.4	4375.9	4341.2	4312.9	4299.9	4273.8	4258.6	4258.6	4234.7	4273.8	4321.6
7.5°	4249.9	4215.2	4197.8	4180.4	4160.8	4136.9	4110.9	4102.2	4087.0	4128.2	4169.5
10°	4136.9	4141.3	4152.1	4176.0	4171.7	4156.5	4117.4	4095.6	4095.6	4143.5	4206.5
12.5°	4189.1	4234.7	4260.8	4304.2	4312.9	4299.9	4260.8	4243.4	4286.9	4358.6	4462.8
15°	4391.1	4421.6	4443.3	4478.1	4475.9	4465.0	4434.6	4447.6	4591.0	4730.1	4823.5
17.5°	4610.6	4575.8	4571.5	4593.2	4599.7	4586.7	4569.3	4628.0	4864.8	4995.2	5043.0
20°	4769.2	4649.7	4623.6	4632.3	4649.7	4643.2	4643.2	4738.8	4984.3	5045.1	4984.3
22.5°	4817.0	4647.5	4608.4	4610.6	4634.5	4636.7	4647.5	4747.5	4890.9	4893.1	4799.6
25°	4741.0	4578.0	4549.8	4554.1	4582.3	4580.2	4584.5	4641.0	4704.0	4677.9	4608.4
27.5°	4597.6	4456.3	4447.6	4471.5	4508.5	4488.9	4475.9	4491.1	4521.5	4488.9	4428.1
30°	4434.6	4315.1	4319.4	4365.1	4404.2	4371.6	4339.0	4347.7	4349.9	4315.1	4245.6
32.5°	4263.0	4173.9	4189.1	4236.9	4282.5	4247.7	4213.0	4208.6	4167.4	4126.1	4058.7
35°	4091.3	4056.5	4076.1	4115.2	4154.3	4126.1	4104.3	4091.3	4002.2	3941.4	3884.9
37.5°	3934.9	3960.9	3995.7	4019.6	4032.6	4030.5	4017.4	3987.0	3869.7	3798.0	3724.1
40°	3795.8	3876.2	3913.1	3924.0	3943.6	3939.2	3937.0	3893.6	3739.3	3663.3	3578.5
42.5°	3669.8	3782.8	3845.8	3856.6	3867.5	3869.7	3863.2	3800.2	3624.2	3535.1	3454.7
45°	3548.1	3695.9	3776.3	3765.4	3780.6	3780.6	3787.1	3704.6	3511.2	3419.9	3335.2
47.5°	3441.6	3615.5	3689.3	3676.3	3685.0	3691.5	3698.0	3602.4	3387.3	3300.4	3213.5
50°	3343.9	3528.6	3591.6	3595.9	3595.9	3611.1	3609.0	3515.5	3283.0	3189.6	3102.7
52.5°	3239.6	3439.5	3506.8	3535.1	3543.8	3550.3	3519.9	3411.2	3176.6	3063.6	2983.2
55°	3117.9	3348.2	3409.1	3446.0	3463.4	3459.0	3417.7	3306.9	3067.9	2955.0	2863.7
57.5°	2933.2	3152.7	3239.6	3257.0	3285.2	3267.8	3220.0	3126.6	2894.1	2781.1	2687.7
60°	2731.2	2889.8	2959.3	2974.5	2952.8	2959.3	2952.8	2863.7	2661.6	2572.5	2476.9
62.5°	2466.1	2607.3	2681.2	2700.7	2663.8	2687.7	2679.0	2568.2	2366.1	2272.7	2188.0
65°	2266.2	2420.5	2507.4	2518.2	2507.4	2518.2	2487.8	2353.1	2161.9	2066.3	1979.4
67.5°	2109.7	2268.4	2359.6	2390.0	2379.2	2377.0	2329.2	2172.8	1975.0	1870.7	1759.9
70°	1840.3	1979.4	2096.7	2170.6	2170.6	2129.3	2038.0	1892.5	1733.9	1644.8	1557.9
72.5°	1629.6	1805.6	1920.7	1996.8	2012.0	1988.1	1859.9	1705.6	1523.1	1434.0	1342.8
75°	1342.8	1514.4	1638.3	1738.2	1757.8	1731.7	1583.9	1431.8	1262.4	1175.5	1084.2
77.5°	897.3	999.5	1099.4	1190.7	1171.1	1188.5	1088.6	973.4	869.1	803.9	762.6
80°	506.3	573.6	604.0	654.0	654.0	654.0	588.8	534.5	475.8	438.9	397.6
82.5°	286.8	330.3	343.3	384.6	395.4	397.6	354.2	319.4	282.5	262.9	234.7
85°	132.5	156.4	158.6	182.5	191.2	208.6	189.0	165.1	143.4	134.7	117.3
87.5°	4.3	13.0	17.4	32.6	43.5	50.0	54.3	54.3	45.6	41.3	34.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3	4871.3
2.5°	4612.8	4664.9	4725.7	4769.2	4847.4	4912.6	4980.0	5053.8	5108.2	5095.1
5°	4380.3	4467.2	4578.0	4680.1	4825.7	4973.4	5136.4	5303.7	5401.5	5397.1
7.5°	4249.9	4373.8	4508.5	4645.4	4817.0	5029.9	5279.8	5540.5	5673.1	5679.6
10°	4319.4	4452.0	4543.2	4658.4	4838.7	5106.0	5405.8	5718.7	5870.8	5901.2
12.5°	4538.9	4528.0	4521.5	4604.1	4821.4	5160.3	5527.5	5901.2	6072.9	6109.8
15°	4747.5	4523.7	4389.0	4445.5	4743.1	5195.1	5647.0	6101.1	6294.5	6333.6
17.5°	4786.6	4447.6	4197.8	4236.9	4619.3	5205.9	5762.2	6296.7	6505.2	6542.2
20°	4677.9	4349.9	4058.7	4004.4	4462.8	5177.7	5833.9	6459.6	6687.8	6726.9
22.5°	4541.1	4263.0	3954.4	3813.2	4271.6	5149.4	5914.2	6631.3	6894.2	6928.9
25°	4397.7	4152.1	3856.6	3641.5	4054.4	5132.1	6049.0	6857.2	7174.4	7215.7
27.5°	4245.6	4017.4	3771.9	3559.0	3854.5	5153.8	6240.2	7222.2	7582.9	7641.6
30°	4082.6	3882.7	3717.6	3530.7	3717.6	5173.3	6450.9	7596.0	8019.7	8102.2
32.5°	3913.1	3758.9	3661.1	3543.8	3632.9	5127.7	6635.6	8015.3	8541.1	8612.8
35°	3743.7	3632.9	3589.4	3567.7	3519.9	4960.4	6785.5	8439.0	9136.4	9199.5
37.5°	3585.1	3502.5	3489.5	3513.4	3346.0	4686.6	6959.3	8977.8	9720.9	9816.5
40°	3437.3	3361.3	3359.1	3354.7	3154.8	4312.9	7194.0	9525.4	10296.7	10340.2
42.5°	3300.4	3204.8	3222.2	3170.1	2998.4	3908.8	7415.6	9992.5	10833.4	10863.8
45°	3178.7	3052.7	3072.3	3007.1	2924.5	3485.1	7611.2	10544.4	11513.4	11533.0
47.5°	3061.4	2926.7	2872.4	2868.0	2911.5	3094.0	7802.4	11606.9	12578.1	12612.9
50°	2952.8	2807.2	2652.9	2748.5	2831.1	2800.7	8041.4	12745.4	13677.5	13668.8
52.5°	2848.5	2657.3	2437.8	2622.5	2622.5	2583.4	7974.0	13436.3	14585.7	14735.6
55°	2729.0	2416.1	2214.0	2411.8	2316.2	2387.9	6781.2	13662.3	15157.2	15370.1
57.5°	2492.2	2118.4	1942.4	2048.9	1905.5	2214.0	4871.3	12541.2	14185.9	14564.0
60°	2264.0	1899.0	1783.8	1764.3	1577.4	1805.6	3157.0	9818.7	11676.4	11867.6
62.5°	1996.8	1710.0	1612.2	1462.3	1268.9	1314.5	1912.0	6461.8	7845.8	7889.3
65°	1794.7	1549.2	1362.3	1184.2	1038.6	953.8	1129.8	3115.7	3921.8	3869.7
67.5°	1540.5	1327.6	1149.4	1021.2	901.7	795.2	751.8	925.6	1047.3	1012.5
70°	1371.0	1166.8	995.1	873.4	762.6	656.2	580.1	545.4	534.5	525.8
72.5°	1182.0	1003.8	825.6	708.3	604.0	506.3	436.7	395.4	384.6	375.9
75°	943.0	775.7	612.7	501.9	410.7	341.1	295.5	260.7	254.2	245.5
77.5°	623.6	497.6	365.0	297.7	243.3	206.4	176.0	154.3	149.9	145.6
80°	343.3	286.8	223.8	180.3	145.6	126.0	115.2	102.1	99.9	97.8
82.5°	204.2	171.6	128.2	102.1	84.7	76.0	69.5	63.0	60.8	58.7
85°	102.1	80.4	56.5	47.8	43.5	39.1	39.1	32.6	30.4	30.4
87.5°	26.1	21.7	13.0	10.9	10.9	10.9	8.7	6.5	6.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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