

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: P637876

Luminaire Tested: GWS-SA4D-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14959.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

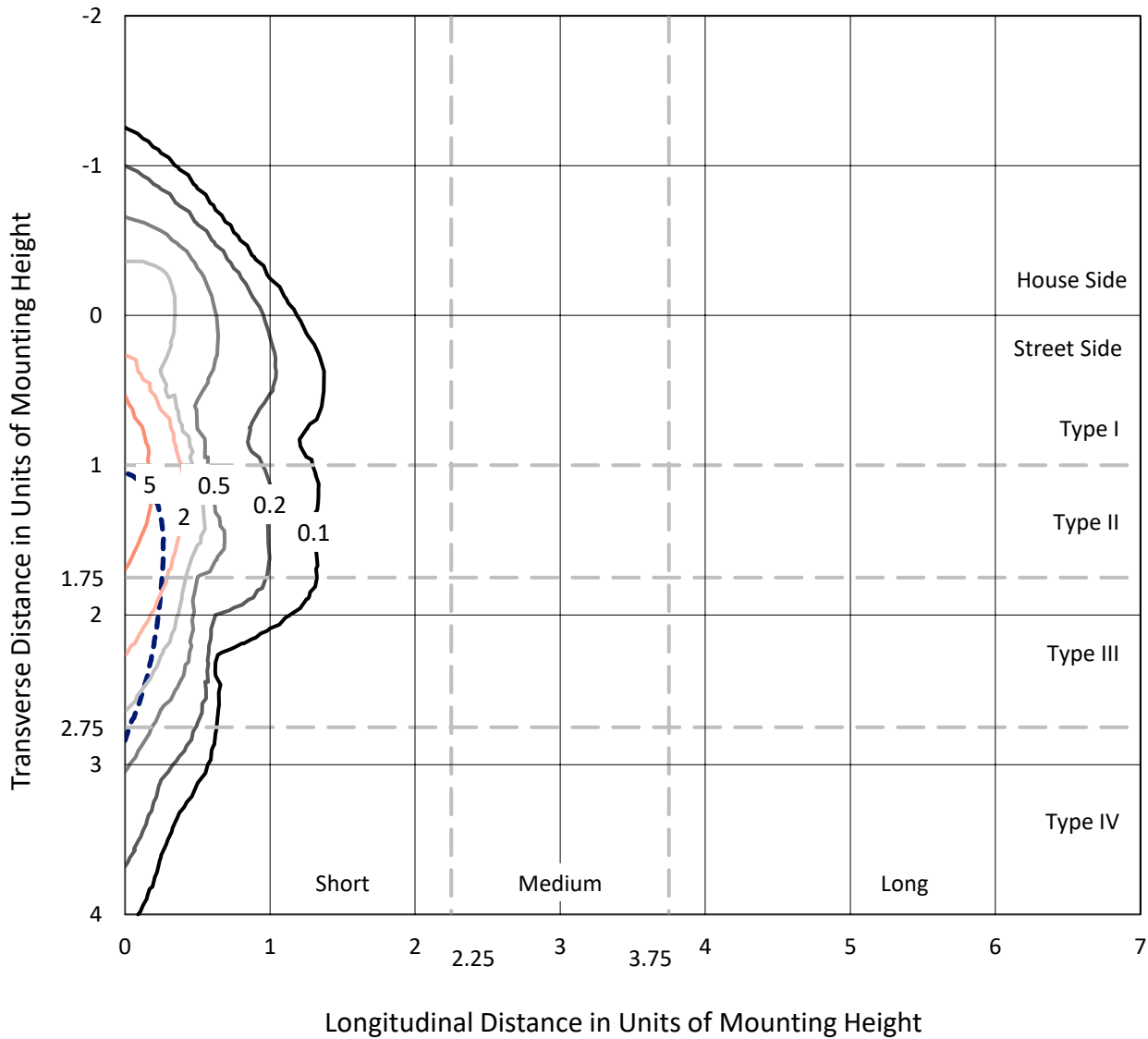
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

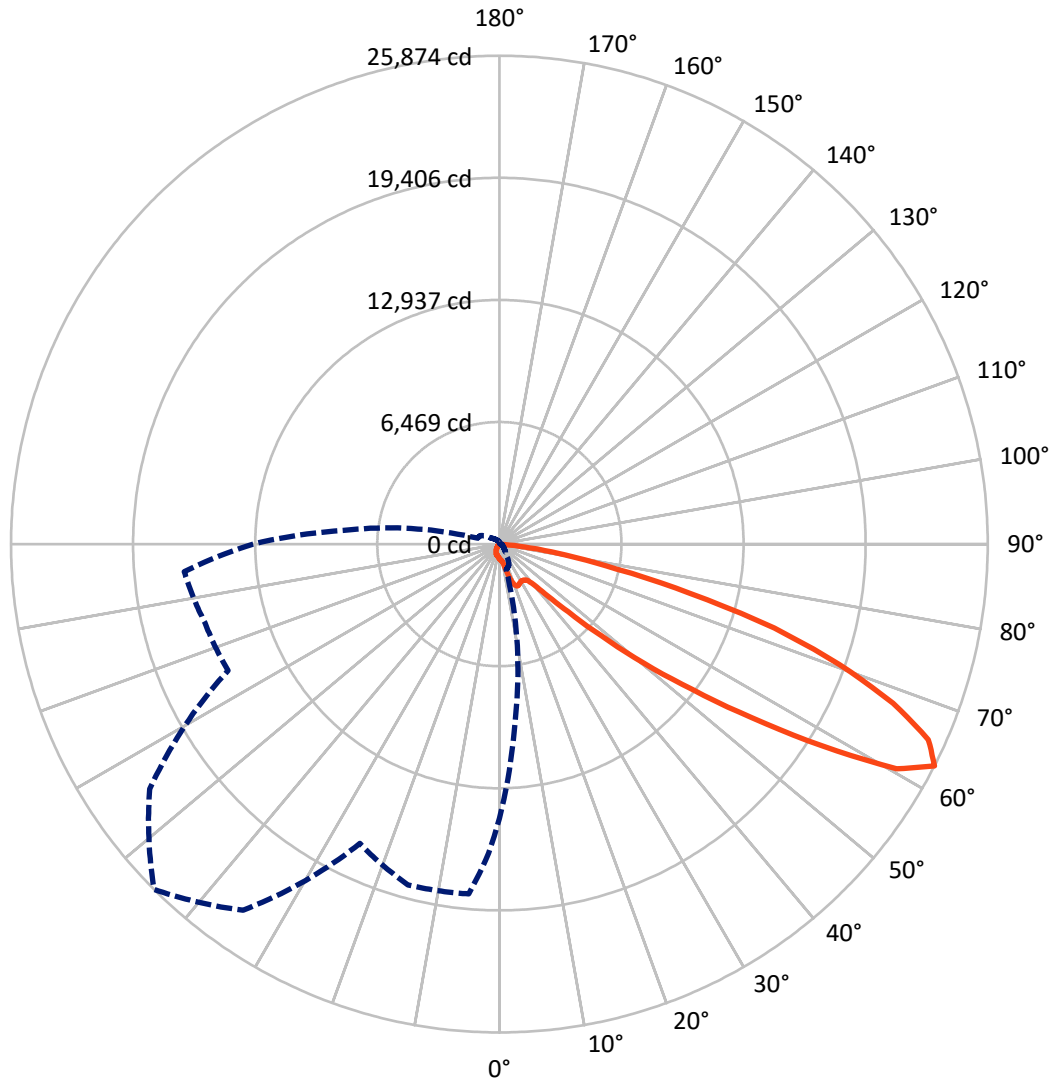
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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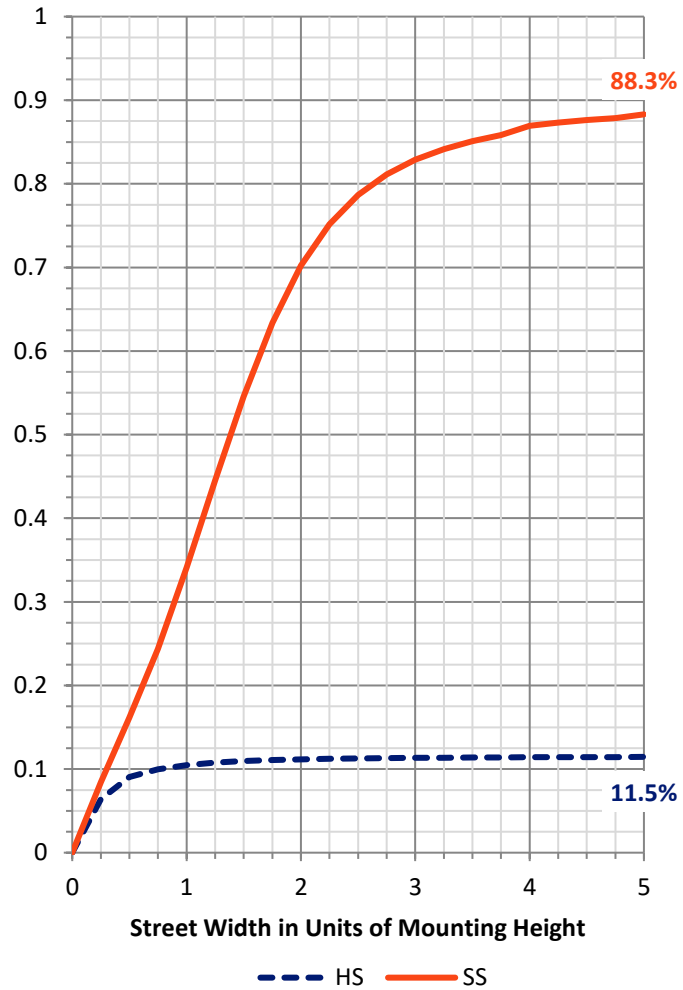
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1738.1	0.0	1738.1
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	13221.1	0.0	13221.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	14959.2	0.0	14959.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	0.4
10°-20°	229.6	1.5
20°-30°	518.7	3.5
30°-40°	893.7	6.0
40°-50°	1685.8	11.3
50°-60°	3763.9	25.2
60°-70°	5034.1	33.7
70°-80°	2524.5	16.9
80°-90°	242.0	1.6
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°	14959.2	100.0
0°-180°	14959.2	100.0

Coefficient of Utilization



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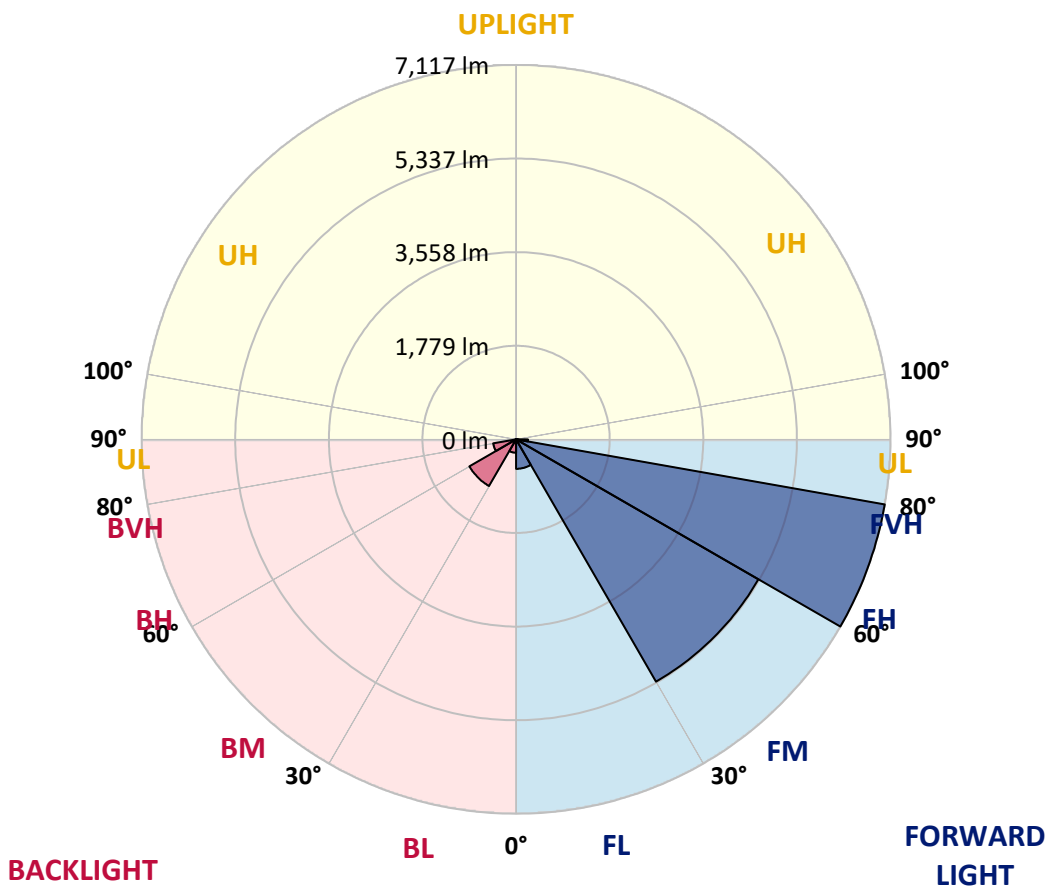
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.2	3.7			
FM (30°-60°)	5318.4	35.6			
FH (60°-80°)	7116.6	47.6			G3/7500
FVH (80°-90°)	225.9	1.5			G3/500
BL (0°-30°)	255.1	1.7	B1/500		
BM (30°-60°)	1024.9	6.9	B2/2500		
BH (60°-80°)	442.0	3.0	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	766.9	765.2	761.6	751.0	742.2	736.8	726.2	726.2	724.4	720.9	713.8
5°	742.2	735.1	728.0	708.5	687.2	674.8	660.7	658.9	658.9	655.4	653.6
7.5°	703.2	696.1	687.2	655.4	635.9	623.5	611.1	609.3	604.0	604.0	604.0
10°	681.9	671.3	657.1	621.7	602.2	591.6	582.7	577.4	573.9	568.6	566.8
12.5°	728.0	708.5	678.4	614.6	588.1	573.9	563.3	559.7	549.1	542.0	536.7
15°	871.5	823.6	763.4	630.6	582.7	561.5	547.3	540.2	531.4	519.0	510.1
17.5°	1107.0	1037.9	937.0	681.9	577.4	550.9	533.1	520.7	508.3	494.2	483.6
20°	1432.9	1330.2	1209.8	775.8	577.4	538.5	517.2	501.3	483.6	467.6	455.2
22.5°	1847.4	1744.7	1539.2	935.2	584.5	522.5	497.7	476.5	455.2	441.0	426.9
25°	2311.5	2166.2	1974.9	1128.3	604.0	501.3	474.7	453.4	434.0	416.2	400.3
27.5°	2828.7	2671.0	2416.0	1402.8	646.5	480.0	449.9	430.4	412.7	395.0	373.7
30°	3305.1	3211.3	2950.9	1732.3	715.6	465.8	430.4	412.7	395.0	372.0	352.5
32.5°	3877.3	3710.8	3496.4	2107.8	807.7	451.7	414.5	389.7	375.5	354.2	333.0
35°	4452.9	4311.2	4029.6	2570.1	910.4	437.5	395.0	372.0	359.6	334.8	311.7
37.5°	5046.3	5014.4	4736.3	3082.0	1011.4	421.6	372.0	357.8	345.4	317.1	290.5
40°	5630.8	5572.3	5315.5	3666.5	1073.4	403.8	352.5	343.6	329.5	297.6	267.5
42.5°	6190.5	6146.2	5896.5	4226.2	1064.5	387.9	333.0	322.4	311.7	279.9	242.7
45°	6877.7	6805.1	6489.8	4640.7	974.2	405.6	313.5	295.8	294.0	263.9	217.9
47.5°	8163.7	7924.6	7389.6	4959.5	883.9	451.7	292.3	271.0	283.4	248.0	193.1
50°	9965.0	9683.4	8909.4	5207.5	882.1	511.9	288.7	248.0	274.5	235.6	171.8
52.5°	11775.2	11279.3	10338.8	5340.3	947.6	556.2	320.6	224.9	263.9	223.2	155.9
55°	13509.3	12480.2	10937.4	4901.0	999.0	604.0	379.0	212.5	244.4	209.0	147.0
57.5°	15161.9	13445.5	11197.8	3877.3	1170.8	623.5	414.5	217.9	216.1	191.3	139.9
60°	15388.6	13399.5	10671.8	2254.8	1291.2	589.8	400.3	242.7	189.5	170.0	127.5
62.5°	14531.3	12508.5	9472.6	1406.4	1199.1	577.4	356.0	276.3	171.8	150.6	111.6
65°	13229.4	11111.0	7898.0	906.9	908.6	641.2	311.7	271.0	161.2	132.8	95.6
67.5°	11194.3	9299.0	6222.4	607.5	513.7	547.3	272.8	186.0	157.6	113.4	74.4
70°	8170.8	6619.1	4050.8	405.6	306.4	437.5	228.5	132.8	148.8	93.9	53.1
72.5°	5972.6	4447.6	2261.9	265.7	173.6	255.1	168.3	95.6	115.1	69.1	37.2
75°	4298.8	3060.7	1291.2	170.0	115.1	139.9	109.8	65.5	74.4	54.9	33.7
77.5°	2068.8	1491.4	586.3	93.9	77.9	70.8	58.5	40.7	46.1	49.6	30.1
80°	77.9	58.5	44.3	46.1	49.6	31.9	26.6	21.3	26.6	33.7	15.9
82.5°	0.0	0.0	0.0	5.3	7.1	8.9	10.6	8.9	10.6	12.4	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	719.1	715.6	719.1	722.7	726.2	729.8	724.4	728.0	731.5	722.7	726.2
5°	662.4	660.7	671.3	676.6	683.7	687.2	683.7	683.7	681.9	671.3	671.3
7.5°	612.9	614.6	623.5	635.9	644.7	650.0	646.5	644.7	639.4	623.5	623.5
10°	575.7	575.7	589.8	600.5	612.9	618.2	614.6	609.3	604.0	588.1	586.3
12.5°	545.5	545.5	556.2	573.9	588.1	595.1	593.4	586.3	577.4	561.5	559.7
15°	517.2	515.4	531.4	547.3	566.8	575.7	572.1	566.8	550.9	536.7	533.1
17.5°	488.9	487.1	501.3	522.5	543.8	556.2	554.4	542.0	527.8	510.1	506.6
20°	460.5	457.0	474.7	495.9	517.2	529.6	526.1	515.4	497.7	480.0	476.5
22.5°	432.2	430.4	442.8	460.5	480.0	490.6	488.9	480.0	462.3	446.4	446.4
25°	400.3	400.3	409.2	421.6	435.7	441.0	442.8	439.3	428.6	419.8	419.8
27.5°	373.7	368.4	372.0	375.5	382.6	391.4	391.4	395.0	396.8	393.2	395.0
30°	352.5	343.6	338.3	331.2	327.7	331.2	334.8	347.2	359.6	366.6	370.2
32.5°	327.7	317.1	302.9	283.4	271.0	267.5	278.1	301.1	324.1	340.1	348.9
35°	302.9	288.7	262.1	233.8	217.9	212.5	224.9	251.5	285.2	313.5	325.9
37.5°	278.1	258.6	221.4	187.8	170.0	166.5	178.9	207.2	246.2	285.2	301.1
40°	249.7	226.7	182.4	147.0	132.8	129.3	139.9	168.3	209.0	253.3	278.1
42.5°	221.4	193.1	147.0	116.9	102.7	102.7	116.9	138.2	175.4	223.2	253.3
45°	193.1	163.0	120.4	93.9	85.0	86.8	95.6	116.9	147.0	196.6	224.9
47.5°	166.5	139.9	99.2	77.9	70.8	72.6	83.2	101.0	125.8	170.0	200.2
50°	143.5	118.7	86.8	65.5	60.2	63.8	74.4	90.3	111.6	150.6	175.4
52.5°	129.3	106.3	79.7	56.7	53.1	56.7	67.3	81.5	101.0	132.8	157.6
55°	122.2	104.5	79.7	51.4	46.1	49.6	60.2	74.4	90.3	120.4	141.7
57.5°	120.4	108.0	85.0	46.1	39.0	42.5	53.1	67.3	83.2	109.8	127.5
60°	113.4	102.7	83.2	37.2	30.1	35.4	44.3	58.5	76.2	102.7	118.7
62.5°	99.2	90.3	72.6	30.1	23.0	26.6	37.2	51.4	69.1	93.9	111.6
65°	81.5	72.6	56.7	19.5	14.2	17.7	28.3	44.3	60.2	85.0	101.0
67.5°	60.2	51.4	39.0	12.4	7.1	12.4	23.0	37.2	54.9	76.2	92.1
70°	37.2	30.1	21.3	7.1	5.3	10.6	21.3	35.4	49.6	70.8	86.8
72.5°	21.3	14.2	8.9	3.5	5.3	10.6	21.3	35.4	47.8	67.3	81.5
75°	15.9	8.9	3.5	1.8	3.5	8.9	19.5	31.9	46.1	63.8	77.9
77.5°	10.6	5.3	1.8	0.0	1.8	7.1	17.7	30.1	42.5	60.2	74.4
80°	1.8	0.0	0.0	0.0	0.0	5.3	15.9	26.6	39.0	53.1	65.5
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	12.4	23.0	33.7	44.3	53.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.1	17.7	26.6	33.7	37.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.7	21.3	24.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	724.4	735.1	735.1	742.2	751.0	766.9	775.8	788.2	797.1	805.9	809.5
5°	669.5	671.3	673.1	676.6	687.2	705.0	720.9	740.4	763.4	781.1	791.7
7.5°	623.5	623.5	623.5	628.8	639.4	651.8	667.8	694.3	720.9	742.2	759.9
10°	584.5	589.8	591.6	600.5	612.9	628.8	646.5	669.5	699.6	728.0	759.9
12.5°	559.7	565.0	573.9	582.7	595.1	612.9	632.3	662.4	724.4	782.9	850.2
15°	536.7	543.8	554.4	566.8	581.0	600.5	621.7	683.7	828.9	938.8	1045.0
17.5°	511.9	522.5	536.7	549.1	566.8	588.1	614.6	735.1	1020.2	1202.7	1383.3
20°	480.0	494.2	510.1	529.6	550.9	575.7	614.6	841.3	1296.6	1558.7	1797.8
22.5°	449.9	464.1	483.6	508.3	533.1	557.9	623.5	1002.5	1652.6	1983.8	2286.7
25°	425.1	442.8	462.3	483.6	511.9	540.2	644.7	1229.2	2081.2	2508.1	2722.4
27.5°	402.1	423.3	442.8	460.5	485.3	517.2	692.6	1532.1	2587.8	3021.7	3190.0
30°	379.0	403.8	423.3	441.0	465.8	499.5	765.2	1918.3	3151.0	3572.6	3590.3
32.5°	359.6	382.6	405.6	423.3	446.4	485.3	866.1	2369.9	3728.5	4135.9	3969.4
35°	338.3	364.9	386.1	405.6	430.4	472.9	983.0	2857.0	4311.2	4653.1	4346.6
37.5°	317.1	347.2	373.7	387.9	412.7	460.5	1068.1	3365.4	4906.4	5157.9	4677.9
40°	297.6	331.2	361.3	375.5	387.9	444.6	1080.5	3886.1	5510.3	5655.6	4989.6
42.5°	276.3	313.5	340.1	359.6	370.2	434.0	1006.1	4325.4	6016.9	6151.5	5397.0
45°	253.3	297.6	318.8	333.0	354.2	441.0	910.4	4665.5	6596.1	6828.2	6068.3
47.5°	230.3	279.9	297.6	308.2	336.5	483.6	875.0	4892.2	7550.8	8032.6	7200.1
50°	209.0	263.9	283.4	281.6	333.0	538.5	914.0	5064.0	8985.5	9552.3	8751.7
52.5°	186.0	246.2	269.2	262.1	359.6	581.0	991.9	5200.4	10089.0	11334.2	10836.5
55°	166.5	226.7	248.0	246.2	409.2	612.9	1052.1	4481.3	10546.0	12990.3	13185.2
57.5°	152.3	205.5	223.2	253.3	441.0	612.9	1216.8	3181.2	10554.9	14208.9	16302.5
60°	139.9	186.0	198.4	278.1	428.6	581.0	1204.4	1948.4	9727.7	14125.7	17960.4
62.5°	129.3	168.3	184.2	285.2	379.0	575.7	1087.5	1208.0	8296.5	13050.5	16757.8
65°	120.4	154.1	177.1	262.1	343.6	616.4	733.3	867.9	6729.0	11824.8	15378.0
67.5°	111.6	141.7	187.8	214.3	311.7	550.9	529.6	616.4	5281.9	10480.5	14111.5
70°	104.5	134.6	198.4	175.4	272.8	430.4	375.5	467.6	4043.8	8744.6	12327.9
72.5°	99.2	125.8	166.5	138.2	221.4	333.0	262.1	340.1	2642.7	6826.4	10050.0
75°	93.9	115.1	122.2	111.6	164.7	217.9	198.4	228.5	1574.6	4989.6	7625.2
77.5°	92.1	108.0	99.2	90.3	111.6	129.3	150.6	154.1	768.7	2495.7	3995.9
80°	81.5	97.4	85.0	74.4	76.2	85.0	111.6	102.7	175.4	634.1	1066.3
82.5°	63.8	76.2	70.8	62.0	62.0	62.0	74.4	69.1	56.7	285.2	481.8
85°	44.3	53.1	53.1	49.6	47.8	47.8	46.1	44.3	15.9	17.7	26.6
87.5°	30.1	37.2	39.0	37.2	31.9	28.3	24.8	21.3	7.1	0.0	3.5
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°	358°	360°
0°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	821.9	827.2	827.2	820.1	814.8	800.6	786.4	772.3	768.7	766.9
5°	821.9	843.1	853.7	852.0	839.6	816.5	786.4	754.6	745.7	742.2
7.5°	809.5	850.2	882.1	887.4	864.4	823.6	768.7	720.9	708.5	703.2
10°	837.8	917.5	981.3	990.1	963.6	883.9	795.3	713.8	694.3	681.9
12.5°	990.1	1121.2	1199.1	1236.3	1185.0	1084.0	937.0	791.7	747.5	728.0
15°	1298.3	1484.3	1633.1	1633.1	1585.3	1406.4	1220.4	984.8	924.6	871.5
17.5°	1693.3	1927.1	2058.2	2044.0	1971.4	1845.6	1622.5	1284.2	1161.9	1107.0
20°	2143.2	2283.1	2313.2	2304.4	2272.5	2199.9	2045.8	1682.7	1518.0	1432.9
22.5°	2532.9	2495.7	2451.4	2416.0	2407.1	2428.4	2407.1	2127.3	1998.0	1847.4
25°	2796.8	2586.0	2453.2	2389.4	2419.5	2541.7	2674.6	2570.1	2467.3	2311.5
27.5°	2940.3	2575.4	2384.1	2318.6	2369.9	2543.5	2832.2	3009.3	2903.1	2828.7
30°	3018.2	2566.5	2339.8	2276.1	2354.0	2571.8	2942.0	3420.3	3423.8	3305.1
32.5°	3129.8	2623.2	2348.7	2290.2	2394.7	2656.9	3080.2	3838.3	3941.0	3877.3
35°	3255.5	2710.0	2389.4	2336.3	2465.6	2770.2	3234.3	4259.8	4474.2	4452.9
37.5°	3374.2	2807.4	2485.1	2433.7	2573.6	2867.6	3383.1	4674.3	4971.9	5046.3
40°	3498.2	2943.8	2779.1	2828.7	2906.6	3021.7	3515.9	5033.9	5519.2	5630.8
42.5°	3790.5	3416.7	3668.2	3762.1	3772.8	3535.4	3806.4	5494.4	6057.7	6190.5
45°	4442.3	4258.1	4979.0	5111.8	5042.7	4323.6	4506.0	6158.6	6810.4	6877.7
47.5°	5265.9	5350.9	6773.2	7232.0	6817.5	5253.5	5354.5	7556.1	8188.5	8163.7
50°	6225.9	6628.0	8810.2	9892.4	8900.5	6461.5	6332.2	9274.2	10041.2	9965.0
52.5°	7361.3	8112.3	11258.0	12795.5	11856.7	7820.0	7766.9	11550.3	12017.9	11775.2
55°	8790.7	9545.2	14074.3	16222.8	14887.3	9477.9	9660.4	14189.4	14279.8	13509.3
57.5°	10923.3	11413.9	17393.6	20153.2	18050.8	11731.0	13054.1	17701.8	16621.4	15161.9
60°	14795.2	13817.5	20601.4	24174.0	21416.1	14899.7	17530.0	19783.0	17400.7	15388.6
62.5°	16143.1	15858.0	22610.0	25874.4	23679.8	17501.7	18693.7	18603.4	16391.1	14531.3
65°	14100.9	15349.6	22250.4	24976.3	23389.3	17073.0	16775.5	17301.5	15254.0	13229.4
67.5°	13025.7	14155.8	20888.3	22498.4	21779.2	15618.8	14952.9	14809.4	12806.1	11194.3
70°	11941.7	13061.2	18913.4	19113.5	18778.7	13248.9	12373.9	11412.1	9571.8	8170.8
72.5°	10638.1	11254.5	16173.2	15223.9	14844.8	10406.1	10221.9	8594.1	7175.3	5972.6
75°	9277.8	9098.9	12609.5	10448.6	10732.0	8096.4	8633.1	6310.9	5257.1	4298.8
77.5°	6748.4	6615.6	8445.3	6346.4	7028.3	5303.1	4764.7	2518.7	2398.3	2068.8
80°	3765.7	4539.7	4561.0	3556.7	4437.0	3457.5	1192.0	83.2	53.1	77.9
82.5°	1750.0	1951.9	2472.7	1649.0	2531.1	1712.8	246.2	0.0	0.0	0.0
85°	566.8	828.9	694.3	242.7	612.9	579.2	40.7	0.0	0.0	0.0
87.5°	33.7	69.1	17.7	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

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