

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: STREETWORKS

Report Number: P386614

Luminaire Tested: GAW-SA2B-735-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8306.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

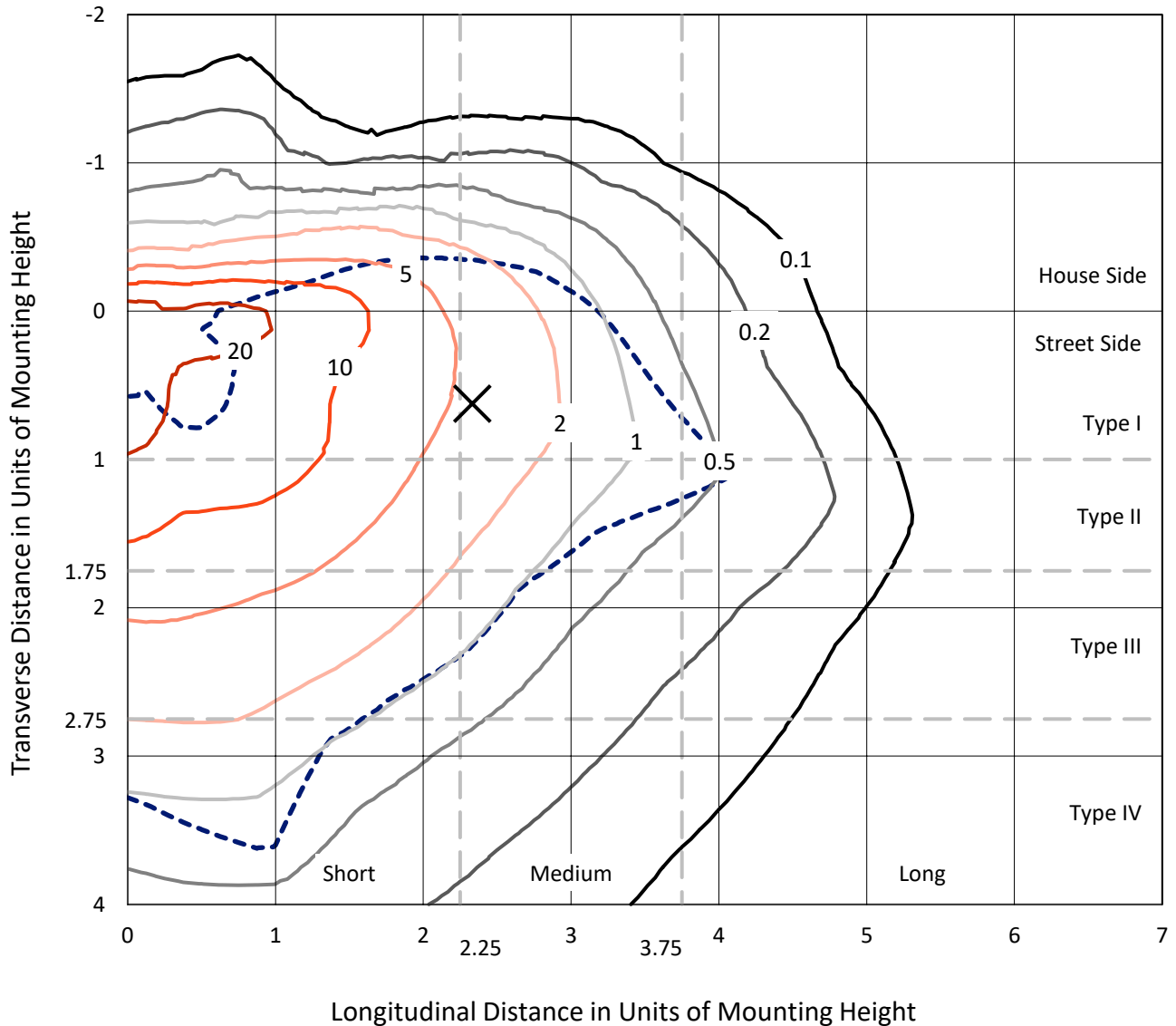
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

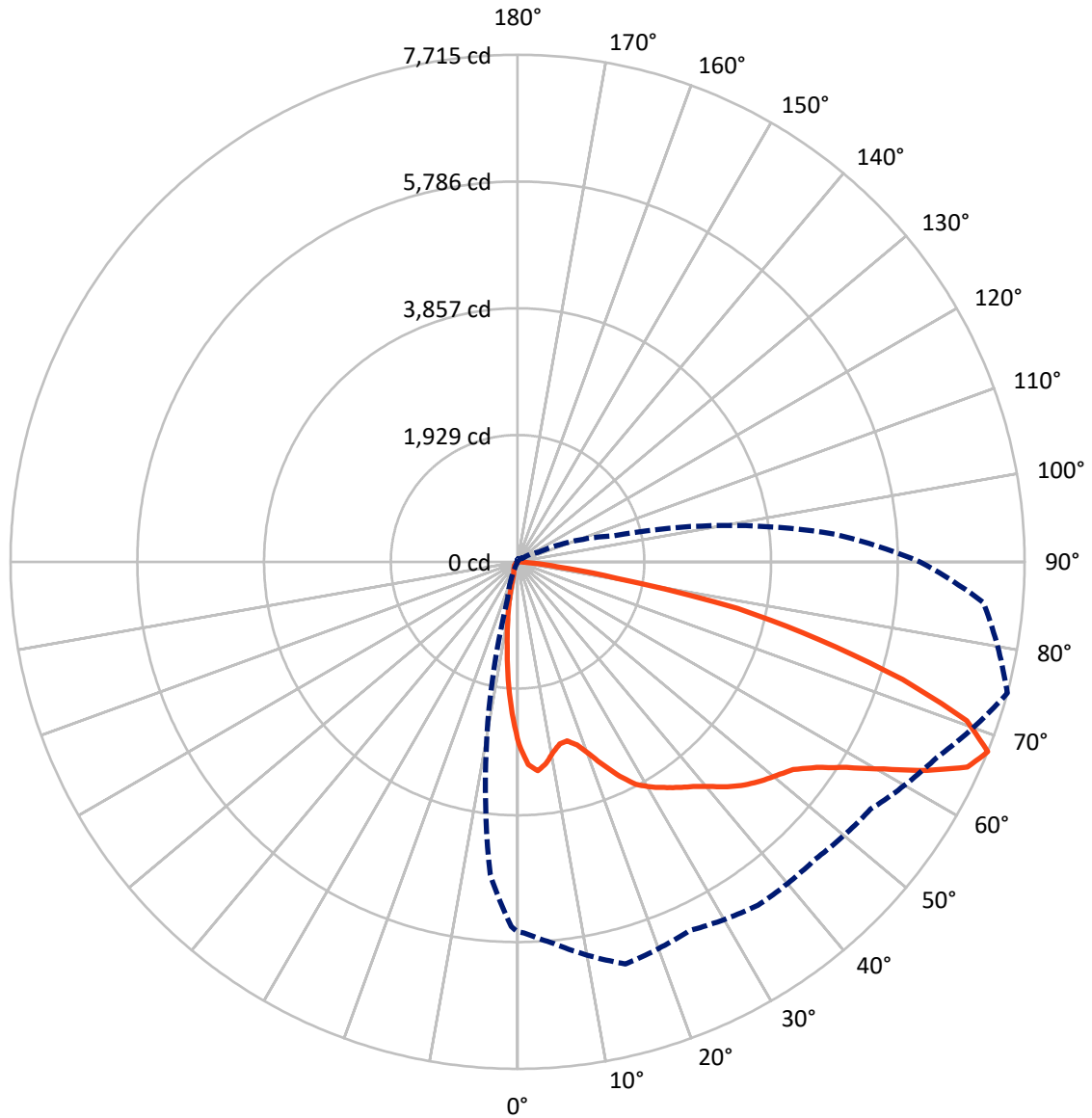
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.4	0.0	1246.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7059.7	0.0	7059.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	8306.1	0.0	8306.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	2.5
10°-20°	416.2	5.0
20°-30°	588.8	7.1
30°-40°	865.7	10.4
40°-50°	1244.3	15.0
50°-60°	1751.6	21.1
60°-70°	2045.8	24.6
70°-80°	1043.7	12.6
80°-90°	138.6	1.7
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°	8306.1	100.0
0°-180°	8306.1	100.0

Coefficient of Utilization

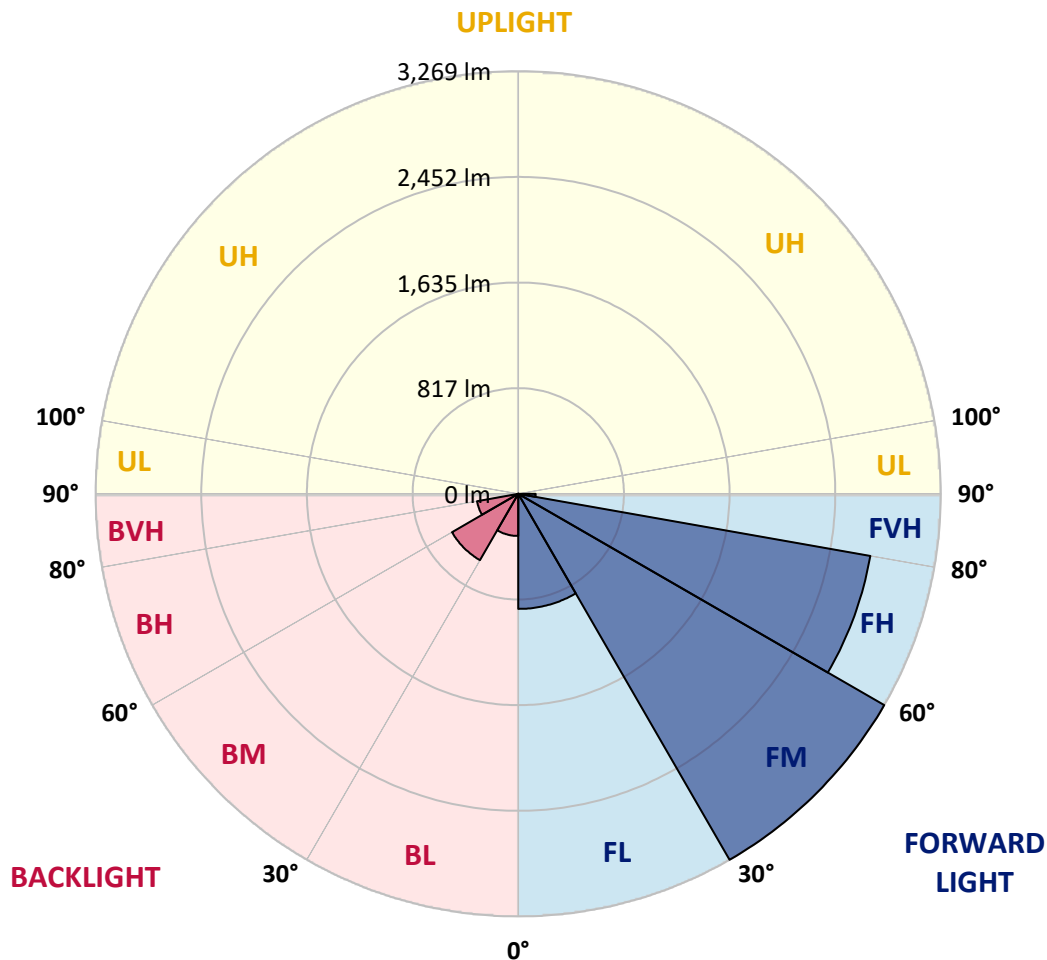


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.4	10.7			
FM (30°-60°)	3269.1	39.4			
FH (60°-80°)	2765.7	33.3			G2/5000
FVH (80°-90°)	134.4	1.6			G2/225
BL (0°-30°)	326.0	3.9	B1/500		
BM (30°-60°)	592.5	7.1	B1/1000		
BH (60°-80°)	323.8	3.9	B1/500		G1/500
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5
2.5°	3020.7	3025.4	3049.8	3106.5	3168.2	3173.0	3214.7	3171.8	3157.2	3088.0	3016.4
5°	3043.5	3061.6	3145.4	3311.8	3456.2	3502.7	3535.7	3451.5	3363.0	3193.8	3013.2
7.5°	2859.7	2890.0	3021.8	3334.3	3592.4	3706.5	3728.2	3596.3	3379.6	3100.9	2829.5
10°	2624.5	2659.0	2818.0	3202.1	3556.5	3752.1	3782.0	3609.3	3297.6	2950.6	2630.8
12.5°	2434.0	2474.6	2637.1	3053.3	3433.4	3649.8	3708.8	3565.7	3226.8	2844.0	2495.0
15°	2346.2	2392.7	2563.4	2957.3	3296.9	3467.3	3516.1	3454.2	3187.6	2827.1	2463.6
17.5°	2396.7	2447.0	2623.3	2965.6	3168.6	3241.4	3280.7	3305.9	3187.6	2929.0	2555.6
20°	2603.2	2657.5	2844.0	3049.4	3062.4	3035.3	3077.4	3165.9	3224.5	3122.5	2776.8
22.5°	2888.8	2952.6	3163.1	3193.0	3010.5	2907.7	2913.2	3052.2	3291.8	3368.1	3083.7
25°	3237.1	3315.0	3529.0	3407.1	3032.1	2831.8	2829.8	2958.5	3357.5	3614.0	3425.6
27.5°	3582.9	3668.7	3856.8	3668.3	3121.4	2818.0	2814.1	2930.2	3421.6	3832.8	3799.0
30°	3872.9	3956.4	4118.5	3857.6	3217.8	2850.3	2831.4	2960.5	3459.8	3974.9	4071.2
32.5°	4109.0	4175.9	4306.9	3987.8	3320.9	2912.9	2871.9	3041.6	3524.7	4094.8	4321.5
35°	4368.7	4439.1	4491.4	4111.7	3436.6	3003.0	2944.3	3170.2	3624.7	4216.8	4595.7
37.5°	4665.0	4735.0	4728.7	4225.1	3583.3	3152.1	3114.7	3374.0	3780.1	4337.7	4901.9
40°	4955.0	5026.6	4975.4	4349.0	3755.7	3398.0	3370.5	3680.2	3988.2	4492.3	5260.7
42.5°	5226.5	5304.0	5194.6	4466.3	3961.0	3708.1	3755.3	4074.4	4248.7	4682.7	5569.9
45°	5445.3	5524.3	5378.3	4580.4	4177.5	4084.2	4226.2	4511.2	4561.9	4843.6	5778.9
47.5°	5604.2	5679.0	5505.9	4694.5	4454.5	4544.2	4791.7	4969.1	4844.8	4983.3	5927.3
50°	5705.7	5763.9	5543.2	4837.3	4818.1	5080.9	5380.8	5467.3	5111.1	5109.2	6107.5
52.5°	5770.2	5796.6	5570.8	4986.5	5197.4	5665.2	5957.5	5984.7	5385.5	5247.7	6350.2
55°	5992.6	6013.8	5765.9	5167.0	5511.0	6177.1	6479.3	6454.1	5695.9	5518.8	6636.6
57.5°	6371.9	6394.3	6169.2	5426.8	5764.8	6493.5	6857.4	6902.7	6059.8	5899.7	6943.6
60°	6562.3	6604.0	6523.7	5755.7	6010.6	6695.7	7115.2	7259.5	6514.7	6401.8	7241.0
62.5°	6389.6	6450.2	6566.6	6120.4	6255.0	6807.0	7195.4	7387.4	6980.5	6986.8	7424.4
65°	6044.9	6093.3	6290.8	6320.3	6396.6	6793.3	6997.1	7208.8	7265.8	7524.4	7414.5
67.5°	5628.6	5646.7	5814.3	6336.0	6191.3	6379.3	6401.4	6558.0	7040.4	7714.8	7116.8
70°	5029.3	5039.2	5185.5	5809.2	5320.5	5361.9	5329.2	5361.0	6052.8	7250.9	6364.8
72.5°	4047.7	4072.5	4280.5	4824.4	3876.1	3756.8	4013.4	3999.3	4661.5	6126.0	4727.1
75°	2980.1	3023.1	3337.4	3885.9	2720.5	2460.7	2648.1	2698.0	3313.8	4738.6	2956.2
77.5°	2086.6	2118.4	2423.0	2856.6	1969.0	1759.6	1691.9	1751.3	2187.3	3427.9	1489.3
80°	1202.0	1213.9	1408.2	1649.4	1326.8	1518.0	1375.2	1416.1	1310.6	1525.1	640.6
82.5°	786.6	788.5	864.4	981.7	826.3	960.1	710.7	908.5	806.2	612.7	208.5
85°	425.0	427.3	501.3	696.8	467.8	264.4	155.4	319.1	498.5	140.4	57.0
87.5°	46.8	42.9	151.1	253.4	129.8	24.0	8.3	35.8	79.8	9.0	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°	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5
2.5°	2979.8	2947.1	2865.6	2779.5	2710.2	2645.3	2580.0	2500.1	2438.4	2425.7	2405.3
5°	2916.0	2812.5	2641.8	2470.2	2332.1	2157.8	2047.2	1961.1	1876.8	1871.7	1854.8
7.5°	2693.3	2557.1	2316.7	2079.5	1885.1	1719.1	1551.5	1439.3	1351.2	1320.1	1301.6
10°	2479.2	2326.2	2026.0	1755.3	1581.8	1435.0	1316.9	1199.7	1093.5	1020.3	987.2
12.5°	2329.7	2160.5	1829.7	1596.3	1471.9	1332.7	1188.7	1042.4	919.9	831.8	777.9
15°	2271.9	2091.3	1763.9	1533.4	1379.9	1203.6	1019.5	852.2	716.5	636.6	588.2
17.5°	2340.8	2130.6	1758.8	1456.6	1242.2	1023.0	819.6	622.1	494.2	433.6	402.5
20°	2515.4	2255.8	1756.9	1362.6	1078.5	809.0	555.2	409.2	331.7	297.9	283.3
22.5°	2762.6	2415.6	1772.5	1269.7	908.1	578.0	383.3	300.6	260.9	242.7	234.5
25°	3080.5	2639.8	1817.1	1185.5	747.9	431.3	298.6	251.9	223.9	209.8	203.8
27.5°	3419.3	2897.9	1886.3	1112.3	617.7	343.9	255.8	215.6	195.6	185.7	180.2
30°	3698.6	3196.9	1956.4	1030.9	523.3	299.9	234.1	196.7	173.5	167.2	162.1
32.5°	3943.0	3423.2	2005.9	957.3	461.5	266.4	211.6	175.9	160.2	148.0	142.4
35°	4196.0	3611.7	2004.4	905.8	419.1	241.2	192.8	157.3	138.5	124.4	120.1
37.5°	4469.8	3824.6	1970.1	861.7	400.6	221.1	182.1	147.6	128.7	114.5	109.0
40°	4790.5	4048.0	1935.1	820.4	395.5	205.0	174.7	139.7	119.6	105.9	100.3
42.5°	5102.9	4249.4	1904.4	789.7	373.4	204.6	168.1	133.8	112.5	99.2	92.9
45°	5352.8	4437.1	1898.5	771.2	350.2	211.6	164.5	129.8	107.0	93.7	87.7
47.5°	5560.6	4641.0	1936.3	758.2	328.1	193.2	173.1	127.1	101.9	89.0	82.2
50°	5807.6	4891.2	2025.2	737.0	304.9	173.9	198.3	127.9	97.6	84.2	77.1
52.5°	6152.3	5237.5	2155.8	701.2	273.1	156.2	195.2	128.7	92.9	79.1	72.1
55°	6538.7	5669.9	2296.3	641.8	228.6	133.0	167.2	123.2	83.8	73.6	66.9
57.5°	6944.8	6062.2	2379.7	571.0	181.8	114.9	133.8	112.2	73.9	66.1	61.8
60°	7008.5	6211.4	2341.5	484.0	144.4	100.0	99.2	114.1	66.1	58.2	55.0
62.5°	6850.0	6024.1	2157.0	406.5	120.8	87.7	81.4	99.6	59.8	51.9	48.8
65°	6545.0	5517.6	1857.9	366.4	112.2	75.2	67.6	70.1	52.3	45.3	42.5
67.5°	6120.8	4841.6	1525.5	343.5	110.9	64.5	57.9	53.1	45.3	39.4	37.0
70°	5253.7	4033.5	1217.0	330.9	107.8	54.3	48.8	43.3	37.8	33.4	31.5
72.5°	3866.6	2858.2	946.7	317.1	108.6	43.3	42.5	35.8	30.3	25.9	25.2
75°	2234.2	1632.9	620.9	256.9	103.5	33.4	35.4	25.2	21.2	18.1	18.1
77.5°	1190.7	995.9	236.4	107.0	37.8	21.2	20.1	14.9	13.3	11.0	10.6
80°	519.0	438.3	71.2	29.9	20.9	11.4	7.5	6.7	5.9	4.7	4.3
82.5°	183.7	158.6	23.2	14.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.7	29.9	0.0	3.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5
2.5°	2363.6	2355.0	2303.8	2305.7	2314.8	2327.8	2297.1	2311.3	2349.4	2386.0	2399.8
5°	1827.7	1829.7	1798.6	1817.8	1835.1	1846.9	1797.3	1798.2	1828.4	1869.8	1891.4
7.5°	1287.8	1284.7	1286.2	1332.2	1364.9	1341.4	1359.9	1295.7	1299.7	1329.1	1307.1
10°	957.3	914.0	889.6	924.3	960.1	947.1	915.3	894.4	909.0	941.6	939.2
12.5°	752.4	690.2	653.5	628.7	658.2	633.9	633.1	615.0	595.3	598.9	651.2
15°	565.8	520.5	477.3	437.6	436.7	428.5	386.4	339.2	335.3	337.6	364.8
17.5°	389.1	373.8	356.1	321.8	312.8	278.2	237.3	218.4	208.9	213.2	222.4
20°	273.5	267.5	269.5	251.0	238.0	205.0	181.0	173.5	171.9	176.2	180.6
22.5°	226.7	216.1	214.8	206.6	193.6	169.6	156.6	152.3	150.3	154.2	157.3
25°	198.3	187.7	183.4	178.2	164.5	148.0	140.1	136.1	134.1	136.5	138.5
27.5°	174.7	164.9	160.9	157.3	144.0	132.2	125.9	122.4	120.8	121.6	123.5
30°	157.0	148.3	143.3	138.9	127.5	119.2	113.7	110.2	108.6	108.6	110.6
32.5°	138.5	133.8	129.1	123.5	112.9	107.4	101.9	98.0	96.4	96.8	98.4
35°	115.3	113.7	114.9	109.8	100.7	96.0	90.5	86.1	85.0	85.4	87.0
37.5°	102.3	95.3	99.6	96.8	91.7	85.4	78.3	74.4	72.4	73.6	74.4
40°	94.0	85.4	82.2	85.0	84.2	73.9	67.6	63.8	62.2	62.6	63.3
42.5°	87.0	76.7	69.6	69.2	73.9	64.5	57.9	54.3	52.3	52.3	53.1
45°	80.2	69.2	60.6	53.9	62.2	54.7	48.4	45.3	42.9	42.9	43.3
47.5°	75.2	62.9	52.7	44.1	46.8	44.8	39.7	36.6	34.2	34.2	34.7
50°	70.5	56.6	45.7	37.0	35.0	37.0	32.2	28.7	27.1	26.8	27.5
52.5°	65.3	50.4	39.0	31.5	27.5	27.9	25.2	22.8	20.9	20.9	21.6
55°	60.2	45.3	33.8	26.8	22.8	20.9	20.1	18.5	16.9	16.9	17.7
57.5°	55.0	39.7	28.7	22.1	18.1	16.5	16.5	15.3	14.2	14.2	14.9
60°	50.4	34.2	23.6	18.1	14.2	13.8	14.2	13.0	12.2	12.2	13.0
62.5°	44.8	29.1	19.3	14.9	11.4	11.0	12.2	11.4	10.6	10.6	11.4
65°	38.1	24.8	15.3	11.4	8.6	8.6	10.2	9.5	8.6	8.6	9.5
67.5°	32.2	20.9	11.8	8.3	6.3	6.7	8.6	7.9	7.5	7.5	8.3
70°	26.8	16.2	8.3	5.1	3.6	5.1	6.7	6.7	6.7	6.7	7.5
72.5°	20.1	11.0	4.7	2.0	1.6	3.6	5.5	6.3	5.9	5.9	7.0
75°	13.0	6.3	1.6	0.0	0.0	2.0	4.3	5.1	5.1	4.7	5.9
77.5°	7.5	2.0	0.0	0.0	0.0	0.0	2.7	2.3	2.0	1.6	2.7
80°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5
2.5°	2455.3	2501.7	2567.0	2636.2	2742.8	2827.5	2910.5	2981.7	3009.3	3020.7
5°	1943.3	2011.4	2107.1	2229.8	2422.2	2595.4	2770.8	2947.5	3024.2	3043.5
7.5°	1394.4	1481.4	1603.0	1756.9	1982.3	2206.5	2451.7	2711.0	2829.8	2859.7
10°	1032.1	1138.4	1277.6	1439.7	1654.9	1885.6	2152.7	2449.0	2584.7	2624.5
12.5°	732.3	875.9	1062.4	1259.5	1446.0	1651.8	1922.1	2248.7	2391.1	2434.0
15°	430.1	569.0	789.7	1053.7	1292.5	1501.1	1775.7	2146.0	2303.0	2346.2
17.5°	246.7	315.9	482.8	777.1	1101.3	1390.1	1729.7	2171.6	2356.5	2396.7
20°	188.4	210.5	278.2	500.5	877.9	1281.1	1729.7	2316.4	2544.2	2603.2
22.5°	164.9	181.0	208.5	298.6	646.1	1164.3	1749.8	2525.7	2823.5	2888.8
25°	146.4	160.9	184.5	224.7	440.7	1025.3	1797.3	2782.7	3152.5	3237.1
27.5°	131.0	144.8	166.1	196.7	301.4	857.8	1861.5	3084.0	3515.3	3582.9
30°	117.2	130.2	149.6	171.2	232.5	667.7	1916.2	3368.1	3800.1	3872.9
32.5°	104.3	116.1	133.4	149.6	190.4	493.8	1922.1	3593.2	4036.6	4109.0
35°	92.1	102.7	118.5	131.0	157.8	389.9	1830.4	3788.3	4273.1	4368.7
37.5°	80.2	90.5	104.3	113.7	138.9	317.9	1690.3	4006.0	4576.4	4665.0
40°	69.2	78.3	92.4	98.7	131.4	244.3	1538.1	4234.1	4874.0	4955.0
42.5°	59.0	67.6	81.4	93.7	115.3	182.5	1373.6	4448.2	5141.5	5226.5
45°	49.2	58.2	72.1	99.2	95.6	136.5	1197.7	4590.3	5352.8	5445.3
47.5°	39.7	50.0	68.9	94.4	76.4	100.3	1058.4	4724.8	5512.9	5604.2
50°	31.8	42.1	77.5	84.2	62.6	76.7	1000.2	4845.2	5618.0	5705.7
52.5°	25.9	35.4	73.2	64.5	52.3	63.3	1031.6	5040.3	5715.2	5770.2
55°	21.6	27.9	44.1	44.8	44.4	53.9	1070.6	5320.5	5966.6	5992.6
57.5°	18.9	22.5	30.7	34.7	37.4	48.0	1071.4	5722.6	6355.8	6371.9
60°	16.2	19.6	25.6	27.9	32.2	42.9	1032.5	5863.1	6508.8	6562.3
62.5°	14.2	17.3	21.2	23.2	27.1	38.5	941.2	5659.7	6298.7	6389.6
65°	12.6	15.8	17.7	19.6	24.0	34.7	790.9	5252.8	5950.0	6044.9
67.5°	11.0	13.8	15.8	17.7	21.6	30.7	582.3	4780.3	5549.9	5628.6
70°	9.9	12.2	14.2	15.8	18.9	25.9	353.3	4056.3	4996.7	5029.3
72.5°	9.5	11.0	13.0	14.2	16.5	22.8	179.0	2981.0	3994.5	4047.7
75°	8.3	9.9	11.8	12.6	14.6	19.6	72.8	1957.9	2894.7	2980.1
77.5°	6.7	9.0	10.6	11.4	12.6	16.2	37.0	1251.3	2031.5	2086.6
80°	2.3	6.7	9.0	9.5	10.6	11.8	24.4	685.0	1178.5	1202.0
82.5°	0.0	4.3	7.0	6.7	7.5	9.0	15.8	325.8	777.9	786.6
85°	0.0	2.0	5.5	4.3	3.2	6.3	5.5	71.2	408.1	425.0
87.5°	0.0	0.0	0.4	2.0	1.6	2.3	0.8	0.4	37.0	46.8
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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