

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P383170

Luminaire Tested: **GAN-SA5A-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383170
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 16086.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

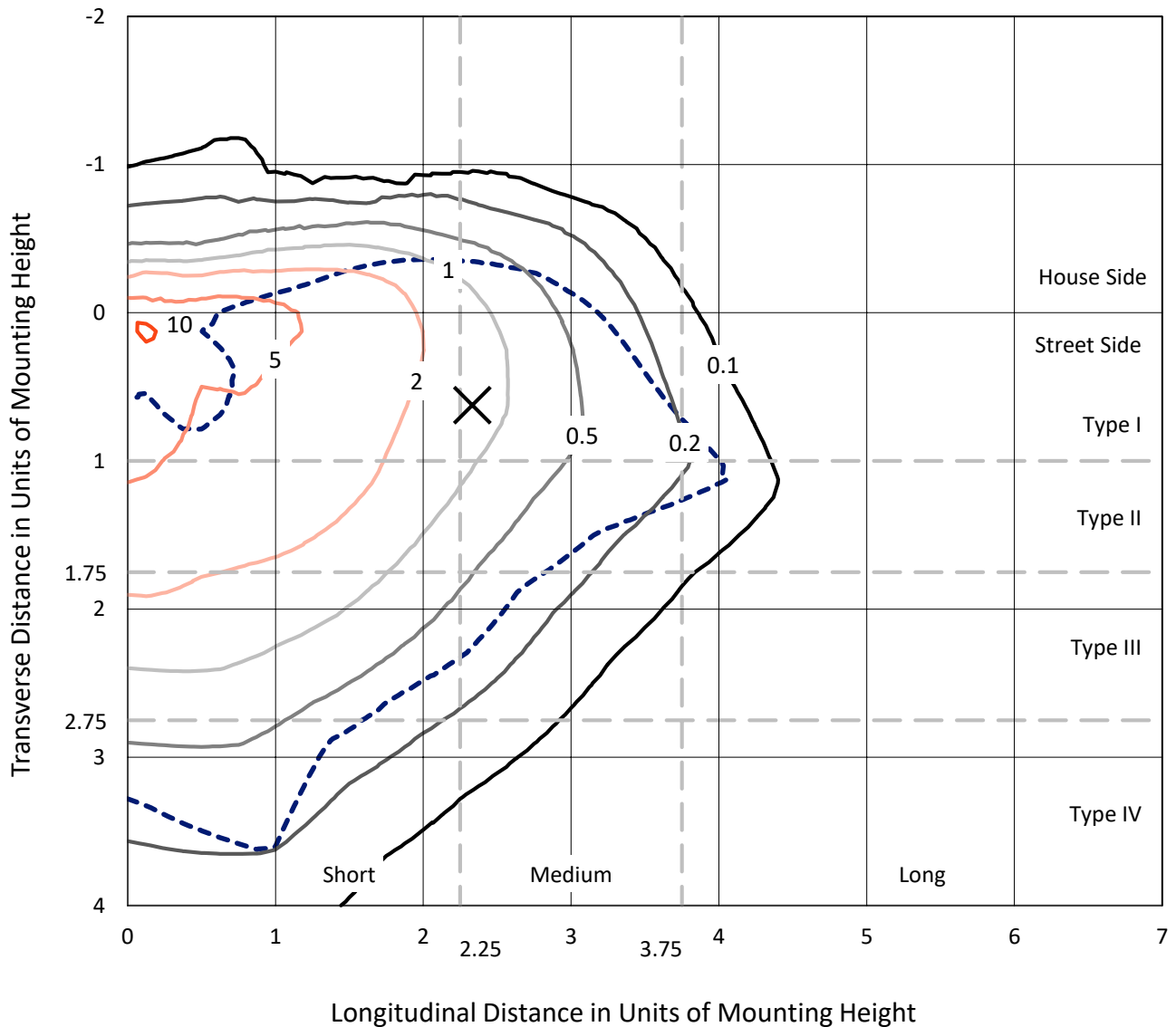
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

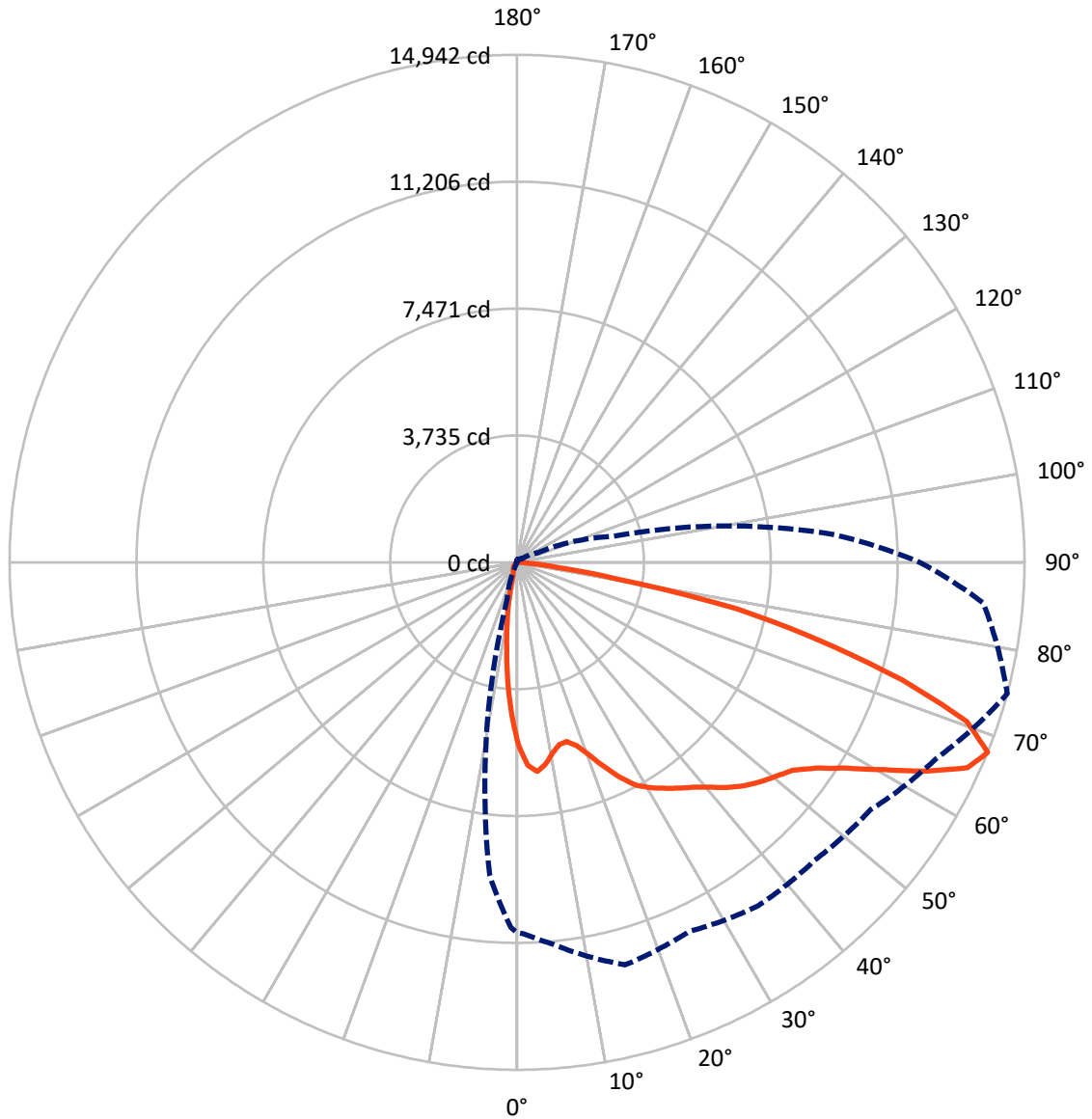
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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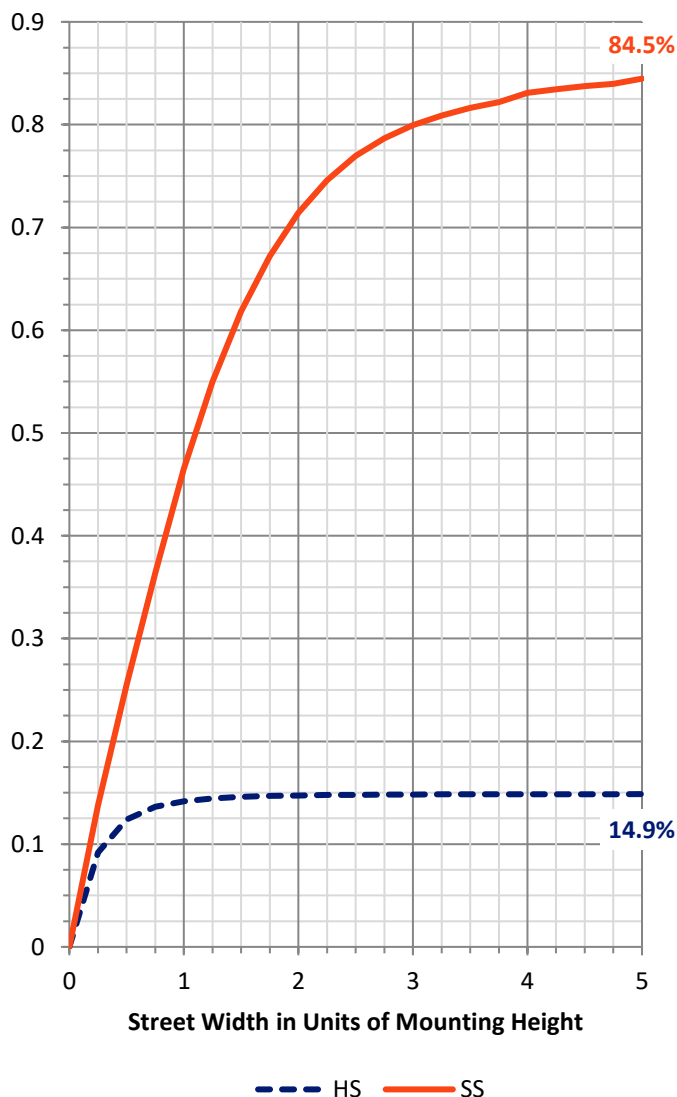
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2414.0	0.0	2414.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13672.9	0.0	13672.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	16086.9	0.0	16086.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.4	2.5
10°-20°	806.1	5.0
20°-30°	1140.4	7.1
30°-40°	1676.7	10.4
40°-50°	2409.9	15.0
50°-60°	3392.5	21.1
60°-70°	3962.1	24.6
70°-80°	2021.4	12.6
80°-90°	268.5	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°	16086.9	100.0
0°-180°	16086.9	100.0

Coefficient of Utilization



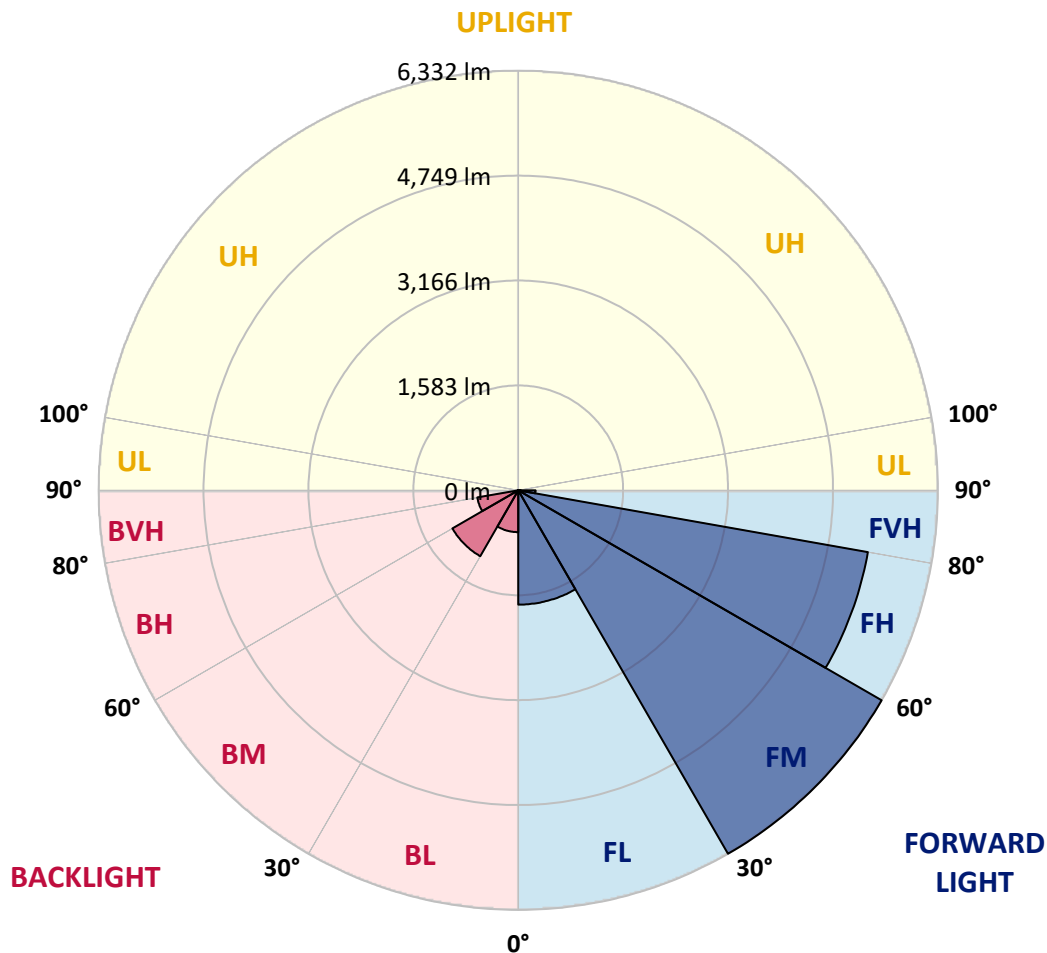
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.5	10.7			
FM (30°-60°)	6331.5	39.4			
FH (60°-80°)	5356.5	33.3			G3/7500
FVH (80°-90°)	260.4	1.6			G3/500
BL (0°-30°)	631.3	3.9	B2/1000		
BM (30°-60°)	1147.5	7.1	B2/2500		
BH (60°-80°)	627.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.1			G0/10
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9
2.5°	5850.3	5859.4	5906.7	6016.4	6136.1	6145.2	6226.0	6142.9	6114.8	5980.6	5841.9
5°	5894.5	5929.6	6091.9	6414.3	6693.9	6783.8	6847.8	6684.8	6513.3	6185.6	5835.9
7.5°	5538.6	5597.3	5852.6	6457.7	6957.5	7178.6	7220.5	6965.2	6545.3	6005.8	5479.9
10°	5082.9	5150.0	5457.8	6201.6	6888.2	7267.0	7324.9	6990.3	6386.8	5714.7	5095.1
12.5°	4714.1	4792.5	5107.3	5913.6	6649.7	7068.9	7183.2	6905.7	6249.7	5508.1	4832.2
15°	4544.2	4634.1	4964.8	5727.6	6385.3	6715.2	6809.7	6690.1	6173.5	5475.4	4771.2
17.5°	4641.7	4739.2	5080.7	5743.6	6136.8	6277.8	6354.0	6402.8	6173.5	5672.8	4949.6
20°	5041.7	5146.9	5508.1	5905.9	5931.1	5878.5	5960.0	6131.5	6245.0	6047.7	5377.8
22.5°	5595.0	5718.5	6126.1	6184.1	5830.5	5631.6	5642.3	5911.2	6375.3	6523.2	5972.2
25°	6269.4	6420.3	6834.9	6598.6	5872.4	5484.5	5480.7	5729.9	6502.6	6999.5	6634.5
27.5°	6939.3	7105.4	7469.7	7104.6	6045.4	5457.8	5450.2	5675.0	6626.8	7423.2	7357.6
30°	7500.9	7662.4	7976.5	7471.2	6232.1	5520.4	5483.7	5733.7	6700.7	7698.3	7885.0
32.5°	7958.1	8087.7	8341.4	7723.5	6431.8	5641.5	5562.3	5890.7	6826.5	7930.7	8369.7
35°	8461.1	8597.5	8698.9	7963.5	6655.8	5816.0	5702.5	6139.9	7020.0	8167.0	8900.8
37.5°	9034.9	9170.6	9158.4	8183.0	6940.0	6104.8	6032.4	6534.6	7321.0	8400.9	9493.7
40°	9596.5	9735.2	9636.2	8423.0	7273.8	6581.1	6527.7	7127.6	7724.2	8700.4	10188.7
42.5°	10122.4	10272.5	10060.6	8650.1	7671.6	7181.6	7273.1	7891.0	8228.6	9069.3	10787.7
45°	10546.1	10699.3	10416.6	8871.1	8090.8	7910.1	8185.2	8737.0	8835.3	9380.9	11192.4
47.5°	10853.9	10998.8	10663.4	9092.1	8627.2	8801.0	9280.4	9624.0	9383.2	9651.4	11479.6
50°	11050.6	11163.4	10735.8	9368.7	9331.4	9840.4	10421.1	10588.8	9899.1	9895.3	11828.6
52.5°	11175.6	11226.6	10789.2	9657.5	10066.0	10972.0	11538.2	11590.9	10430.3	10163.6	12298.9
55°	11606.2	11647.2	11167.2	10007.3	10673.4	11963.5	12548.8	12500.0	11031.5	10688.6	12853.6
57.5°	12340.8	12384.2	11948.3	10510.3	11164.9	12576.2	13281.1	13368.7	11736.4	11426.3	13448.0
60°	12709.6	12790.3	12634.9	11147.4	11641.2	12967.9	13780.3	14059.9	12617.3	12398.6	14024.1
62.5°	12375.1	12492.3	12718.0	11853.8	12114.4	13183.5	13935.7	14307.6	13519.6	13531.8	14379.2
65°	11707.5	11801.2	12183.7	12240.9	12388.7	13156.9	13551.6	13961.7	14072.1	14572.8	14360.2
67.5°	10901.2	10936.3	11260.9	12271.4	11991.0	12355.2	12397.9	12701.2	13635.4	14941.7	13783.3
70°	9740.6	9759.6	10043.1	11251.0	10304.5	10384.5	10321.3	10383.0	11722.7	14043.2	12327.0
72.5°	7839.3	7887.3	8290.4	9343.6	7507.0	7276.1	7772.9	7745.5	9028.1	11864.5	9155.3
75°	5771.8	5854.9	6463.7	7526.1	5268.8	4765.9	5128.6	5225.4	6418.0	9177.4	5725.3
77.5°	4041.1	4102.9	4692.8	5532.6	3813.3	3407.9	3276.8	3392.0	4236.3	6639.0	2884.4
80°	2328.1	2350.9	2727.4	3194.6	2569.7	2940.1	2663.4	2742.7	2538.4	2953.8	1240.6
82.5°	1523.4	1527.2	1674.3	1901.3	1600.3	1859.5	1376.3	1759.6	1561.5	1186.5	403.9
85°	823.0	827.6	970.9	1349.6	906.1	512.1	301.0	618.0	965.5	272.0	110.5
87.5°	90.6	83.1	292.6	490.7	251.5	46.5	16.0	69.3	154.7	17.5	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°	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9
2.5°	5771.0	5707.8	5550.1	5383.1	5249.1	5123.3	4996.8	4842.1	4722.5	4698.1	4658.5
5°	5647.6	5447.1	5116.4	4784.1	4516.7	4179.1	3964.9	3798.1	3635.0	3625.1	3592.3
7.5°	5216.3	4952.6	4487.0	4027.5	3651.0	3329.4	3004.8	2787.6	2616.9	2556.7	2520.9
10°	4801.8	4505.2	3923.9	3399.5	3063.5	2779.2	2550.6	2323.5	2117.8	1976.0	1912.0
12.5°	4512.1	4184.4	3543.5	3091.6	2850.8	2581.0	2302.1	2018.7	1781.7	1611.0	1506.6
15°	4400.1	4050.4	3416.3	2969.8	2672.5	2331.1	1974.5	1650.6	1387.7	1233.0	1139.3
17.5°	4533.5	4126.6	3406.4	2821.1	2405.8	1981.3	1587.4	1204.8	957.2	839.8	779.6
20°	4871.8	4368.9	3402.6	2639.0	2088.8	1566.8	1075.3	792.6	642.4	576.9	548.7
22.5°	5350.4	4678.2	3433.0	2459.2	1758.9	1119.4	742.3	582.2	505.3	470.2	454.2
25°	5966.1	5112.6	3519.2	2296.1	1448.6	835.2	578.4	487.8	433.6	406.2	394.8
27.5°	6622.3	5612.6	3653.3	2154.3	1196.4	666.1	495.3	417.6	378.8	359.7	349.1
30°	7163.3	6191.7	3789.0	1996.6	1013.5	580.7	453.4	381.0	336.1	323.9	313.9
32.5°	7636.5	6629.9	3884.9	1854.1	893.9	515.9	410.0	340.7	310.1	286.5	275.8
35°	8126.5	6994.9	3881.9	1754.3	811.6	467.2	373.4	304.8	268.3	240.8	232.4
37.5°	8657.0	7407.2	3815.6	1668.9	775.8	428.2	352.9	285.8	249.2	221.8	211.1
40°	9278.0	7840.0	3747.8	1588.8	765.8	397.0	338.3	270.5	231.7	205.0	194.3
42.5°	9883.1	8230.2	3688.4	1529.4	723.2	396.3	325.4	259.1	218.0	192.0	179.9
45°	10367.0	8593.7	3676.9	1493.6	678.3	410.0	318.5	251.5	207.3	181.4	169.9
47.5°	10769.3	8988.4	3750.0	1468.5	635.6	374.2	335.3	246.1	197.4	172.2	159.3
50°	11248.0	9473.1	3922.3	1427.3	590.6	336.8	384.1	247.7	189.0	163.1	149.3
52.5°	11915.5	10143.7	4175.3	1358.0	528.8	302.6	378.0	249.2	179.9	153.1	139.5
55°	12663.8	10981.2	4447.4	1242.9	442.8	257.6	323.9	238.6	162.3	142.5	129.6
57.5°	13450.2	11740.9	4608.9	1105.7	352.0	222.5	259.1	217.1	143.3	128.0	119.6
60°	13573.8	12029.8	4535.0	937.3	279.7	193.6	192.0	221.0	128.0	112.8	106.7
62.5°	13266.6	11667.1	4177.6	787.2	233.9	169.9	157.7	192.8	115.8	100.6	94.5
65°	12676.0	10686.3	3598.4	709.5	217.1	145.5	131.1	135.6	101.4	87.7	82.3
67.5°	11854.5	9377.1	2954.5	665.3	214.9	125.0	112.1	102.8	87.7	76.2	71.6
70°	10174.9	7811.9	2357.0	640.9	208.8	105.2	94.5	83.8	73.1	64.7	60.9
72.5°	7488.7	5535.5	1833.5	614.3	210.3	83.8	82.3	69.3	58.7	50.3	48.8
75°	4326.9	3162.5	1202.5	497.6	200.4	64.7	68.6	48.8	41.2	35.0	35.0
77.5°	2306.0	1928.8	458.0	207.3	73.1	41.2	38.8	29.0	25.9	21.3	20.6
80°	1005.1	848.9	138.0	57.9	40.4	22.1	14.4	12.9	11.5	9.1	8.4
82.5°	355.9	307.1	45.0	28.2	17.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.8	57.9	0.0	6.9	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°	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9
2.5°	4577.6	4560.9	4461.8	4465.7	4483.2	4508.3	4448.9	4476.3	4550.2	4621.1	4647.8
5°	3539.8	3543.5	3483.3	3520.7	3554.2	3577.0	3481.1	3482.6	3541.3	3621.3	3663.2
7.5°	2494.2	2488.1	2491.1	2580.3	2643.5	2597.8	2633.7	2509.4	2517.0	2574.2	2531.6
10°	1854.1	1770.2	1723.0	1790.1	1859.5	1834.3	1772.5	1732.1	1760.3	1823.6	1819.0
12.5°	1457.0	1336.7	1265.8	1217.7	1274.9	1227.7	1226.1	1191.1	1153.0	1159.9	1261.2
15°	1095.9	1008.2	924.4	847.4	845.8	829.9	748.3	656.9	649.3	653.9	706.4
17.5°	753.7	724.0	689.6	623.4	605.9	538.8	459.5	422.9	404.7	413.0	430.6
20°	529.6	518.2	522.0	486.2	461.0	397.0	350.5	336.1	333.0	341.4	349.8
22.5°	438.9	418.4	416.1	400.1	374.9	328.5	303.3	294.9	291.1	298.7	304.8
25°	384.1	363.5	355.1	345.2	318.5	286.5	271.3	263.6	259.9	264.5	268.3
27.5°	338.3	319.3	311.7	304.8	278.9	256.1	243.9	237.0	233.9	235.5	239.3
30°	304.1	287.3	277.4	269.0	246.9	230.9	220.2	213.4	210.3	210.3	214.2
32.5°	268.3	259.1	249.9	239.3	218.7	208.0	197.4	189.8	186.7	187.4	190.5
35°	223.3	220.2	222.5	212.6	195.1	185.9	175.3	166.9	164.6	165.3	168.4
37.5°	198.1	184.4	192.8	187.4	177.6	165.3	151.7	144.0	140.2	142.5	144.0
40°	182.1	165.3	159.3	164.6	163.1	143.3	131.1	123.4	120.4	121.2	122.7
42.5°	168.4	148.6	134.9	134.1	143.3	125.0	112.1	105.2	101.4	101.4	102.8
45°	155.5	134.1	117.4	104.4	120.4	105.9	93.7	87.7	83.1	83.1	83.8
47.5°	145.5	121.9	102.1	85.3	90.6	86.9	76.9	70.9	66.3	66.3	67.1
50°	136.4	109.7	88.4	71.6	67.8	71.6	62.5	55.6	52.5	51.8	53.4
52.5°	126.5	97.5	75.5	60.9	53.4	54.1	48.8	44.2	40.4	40.4	41.9
55°	116.6	87.7	65.6	51.8	44.2	40.4	38.8	35.8	32.8	32.8	34.3
57.5°	106.7	76.9	55.6	42.7	35.0	32.0	32.0	29.7	27.4	27.4	29.0
60°	97.5	66.3	45.7	35.0	27.4	26.6	27.4	25.2	23.7	23.7	25.2
62.5°	86.9	56.4	37.4	29.0	22.1	21.3	23.7	22.1	20.6	20.6	22.1
65°	74.0	48.0	29.7	22.1	16.8	16.8	19.8	18.3	16.8	16.8	18.3
67.5°	62.5	40.4	22.8	16.0	12.2	12.9	16.8	15.3	14.4	14.4	16.0
70°	51.8	31.2	16.0	9.9	6.9	9.9	12.9	12.9	12.9	12.9	14.4
72.5°	38.8	21.3	9.1	3.8	3.1	6.9	10.7	12.2	11.5	11.5	13.7
75°	25.2	12.2	3.1	0.0	0.0	3.8	8.4	9.9	9.9	9.1	11.5
77.5°	14.4	3.8	0.0	0.0	0.0	0.0	5.3	4.6	3.8	3.1	5.3
80°	3.8	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°	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9	5396.9
2.5°	4755.3	4845.2	4971.7	5105.8	5312.3	5476.1	5636.9	5774.8	5828.2	5850.3
5°	3763.8	3895.6	4080.8	4318.6	4691.2	5026.5	5366.4	5708.5	5857.2	5894.5
7.5°	2700.7	2869.2	3104.6	3402.6	3839.3	4273.6	4748.4	5250.6	5480.7	5538.6
10°	1998.9	2204.6	2474.4	2788.4	3205.2	3651.8	4169.2	4743.1	5006.0	5082.9
12.5°	1418.2	1696.3	2057.5	2439.4	2800.5	3199.1	3722.7	4355.2	4631.0	4714.1
15°	832.9	1101.9	1529.4	2040.7	2503.3	2907.3	3439.2	4156.3	4460.3	4544.2
17.5°	477.8	611.9	935.1	1505.1	2133.0	2692.4	3350.0	4205.8	4563.9	4641.7
20°	365.0	407.7	538.8	969.4	1700.2	2481.3	3350.0	4486.2	4927.4	5041.7
22.5°	319.3	350.5	403.9	578.4	1251.3	2254.9	3388.9	4891.6	5468.6	5595.0
25°	283.5	311.7	357.4	435.1	853.5	1985.9	3481.1	5389.3	6105.5	6269.4
27.5°	253.8	280.4	321.6	381.0	583.7	1661.3	3605.3	5973.0	6808.2	6939.3
30°	227.1	252.3	289.6	331.5	450.4	1293.2	3711.2	6523.2	7360.0	7500.9
32.5°	202.0	224.8	258.3	289.6	368.8	956.4	3722.7	6959.1	7817.9	7958.1
35°	178.3	198.9	229.3	253.8	305.5	755.2	3545.1	7337.1	8276.0	8461.1
37.5°	155.5	175.3	202.0	220.2	269.0	615.8	3273.8	7758.5	8863.5	9034.9
40°	134.1	151.7	179.0	191.2	254.5	473.2	2978.9	8200.5	9439.6	9596.5
42.5°	114.3	131.1	157.7	181.4	223.3	353.6	2660.3	8615.0	9957.8	10122.4
45°	95.3	112.8	139.5	192.0	185.2	264.5	2319.7	8890.1	10367.0	10546.1
47.5°	76.9	96.8	133.4	182.9	147.8	194.3	2050.0	9150.8	10677.1	10853.9
50°	61.8	81.5	150.2	163.1	121.2	148.6	1937.2	9383.9	10880.7	11050.6
52.5°	50.3	68.6	141.8	125.0	101.4	122.7	1998.1	9762.0	11068.8	11175.6
55°	41.9	54.1	85.3	86.9	86.1	104.4	2073.5	10304.5	11555.8	11606.2
57.5°	36.6	43.4	59.4	67.1	72.4	93.0	2075.1	11083.4	12309.5	12340.8
60°	31.2	38.1	49.6	54.1	62.5	83.1	1999.7	11355.4	12605.9	12709.6
62.5°	27.4	33.5	41.2	45.0	52.5	74.7	1822.9	10961.4	12199.0	12375.1
65°	24.4	30.5	34.3	38.1	46.5	67.1	1531.7	10173.4	11523.8	11707.5
67.5°	21.3	26.6	30.5	34.3	41.9	59.4	1127.8	9258.2	10748.8	10901.2
70°	19.1	23.7	27.4	30.5	36.6	50.3	684.3	7856.0	9677.4	9740.6
72.5°	18.3	21.3	25.2	27.4	32.0	44.2	346.7	5773.4	7736.4	7839.3
75°	16.0	19.1	22.8	24.4	28.2	38.1	140.9	3792.0	5606.4	5771.8
77.5°	12.9	17.5	20.6	22.1	24.4	31.2	71.6	2423.3	3934.5	4041.1
80°	4.6	12.9	17.5	18.3	20.6	22.8	47.2	1326.7	2282.4	2328.1
82.5°	0.0	8.4	13.7	12.9	14.4	17.5	30.5	630.9	1506.6	1523.4
85°	0.0	3.8	10.7	8.4	6.1	12.2	10.7	138.0	790.2	823.0
87.5°	0.0	0.0	0.7	3.8	3.1	4.6	1.5	0.7	71.6	90.6
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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