

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: P324657

Luminaire Tested: **GAN-SA3D-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13953 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

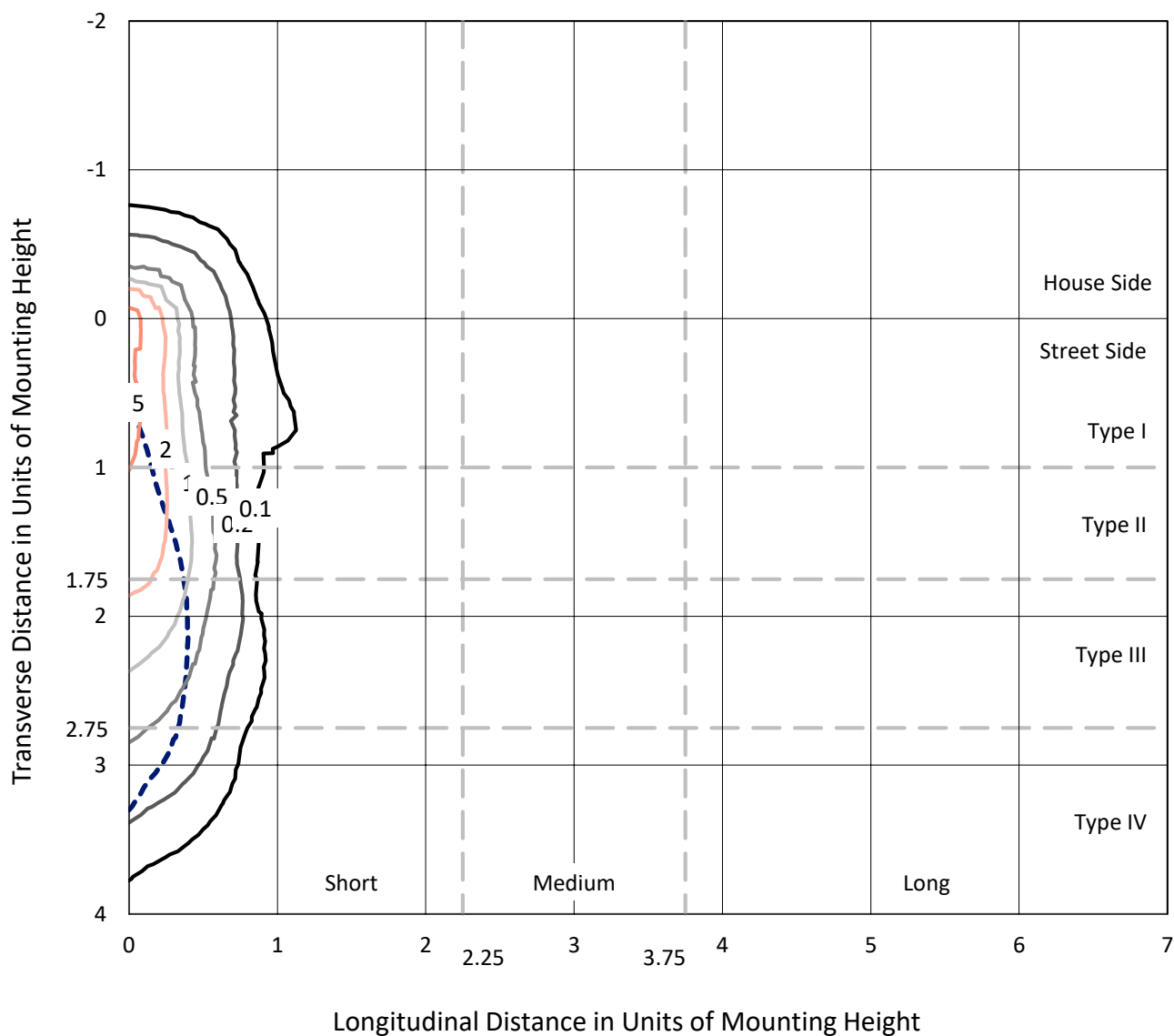
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

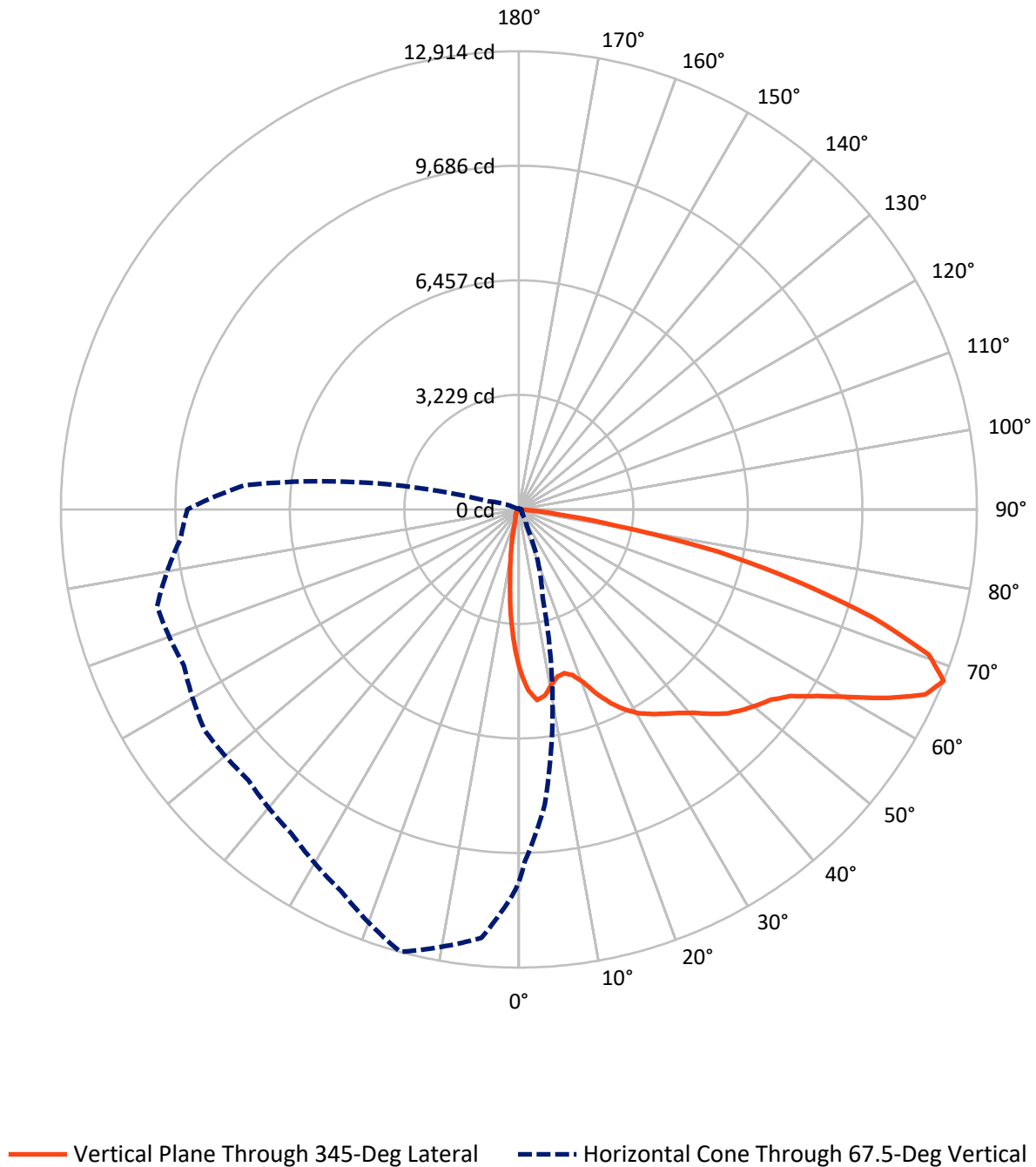
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.8	0.0	1688.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12264.2	0.0	12264.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	13953.0	0.0	13953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	2.5
10°-20°	694.4	5.0
20°-30°	986.0	7.1
30°-40°	1456.4	10.4
40°-50°	2100.4	15.1
50°-60°	2948.5	21.1
60°-70°	3437.1	24.6
70°-80°	1757.1	12.6
80°-90°	224.4	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°	13953.0	100.0
0°-180°	13953.0	100.0

Coefficient of Utilization



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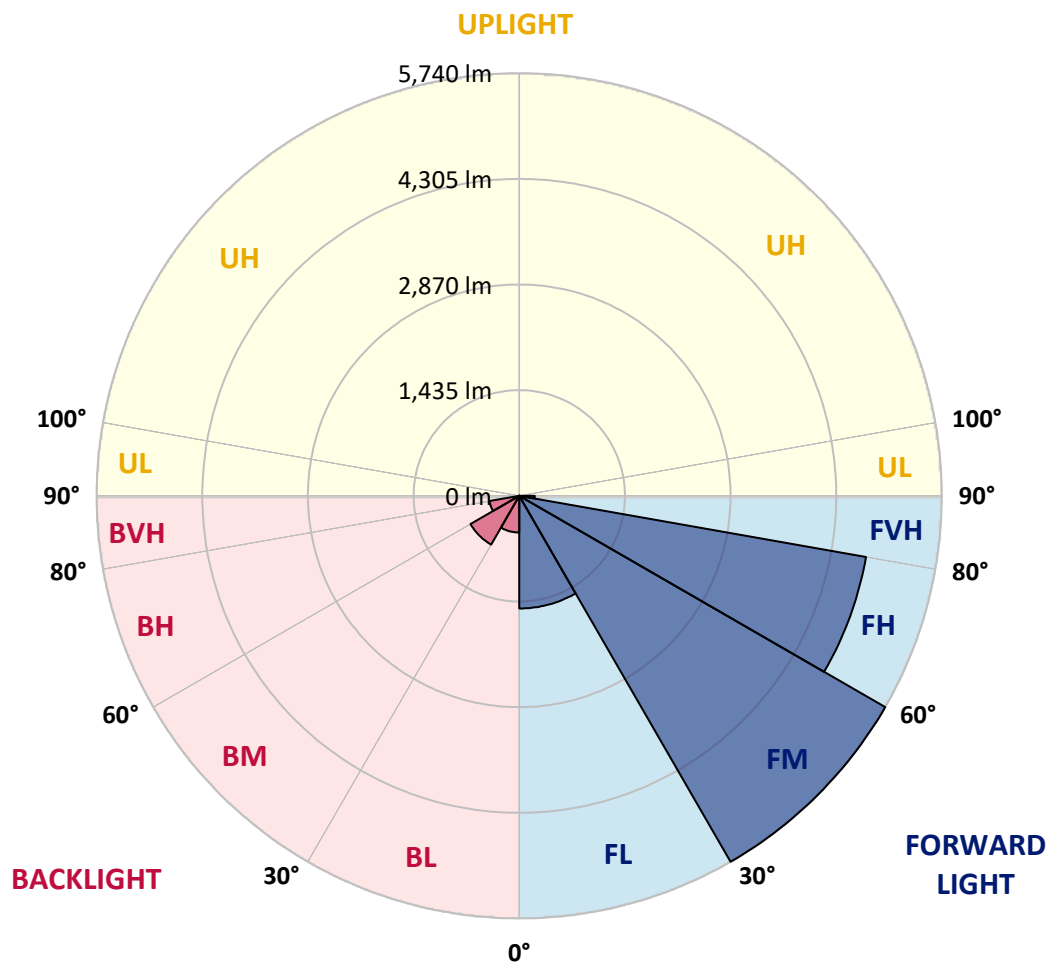
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1530.4	11.0			
FM	(30°-60°)	5740.5	41.1			
FH	(60°-80°)	4782.6	34.3			G2/5000
FVH	(80°-90°)	210.8	1.5			G2/225
BL	(0°-30°)	498.8	3.6	B1/500		
BM	(30°-60°)	764.7	5.5	B1/1000		
BH	(60°-80°)	411.6	2.9	B1/500		G1/500
BVH	(80°-90°)	13.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2
2.5°	4976.8	4938.5	4896.2	4758.0	4629.8	4483.0	4363.4	4280.1	4175.7	4040.1	4005.8
5°	4941.1	4900.1	4767.3	4459.9	4190.9	3929.1	3676.6	3528.5	3344.8	3158.3	3112.1
7.5°	4582.2	4539.2	4347.5	3926.5	3564.2	3186.1	2858.2	2655.3	2447.8	2277.2	2186.6
10°	4208.7	4161.8	3946.3	3435.3	2989.1	2647.4	2406.8	2213.1	2016.8	1834.3	1688.9
12.5°	3951.6	3890.1	3656.1	3077.0	2688.4	2456.3	2231.6	1999.6	1733.9	1538.2	1378.2
15°	3843.8	3773.8	3526.5	2938.9	2581.9	2309.6	2016.8	1731.9	1420.5	1196.4	1049.7
17.5°	3927.1	3835.9	3570.8	2929.6	2448.4	2077.6	1707.4	1372.9	1035.2	808.4	704.0
20°	4210.0	4090.4	3753.9	2927.0	2286.5	1801.9	1332.6	954.5	682.2	548.6	493.8
22.5°	4655.6	4497.6	4017.0	2948.1	2119.2	1512.4	962.4	648.5	512.3	442.9	410.5
25°	5193.6	5010.5	4395.8	3022.8	1972.5	1230.8	699.4	512.3	432.3	381.4	354.3
27.5°	5705.3	5556.5	4874.4	3130.6	1858.8	1003.4	567.8	434.3	369.5	335.8	314.0
30°	6216.2	6029.2	5365.5	3258.8	1722.0	849.4	499.1	396.0	331.2	295.5	281.6
32.5°	6587.7	6432.4	5750.2	3351.4	1575.9	748.9	446.2	362.2	309.4	273.0	252.5
35°	7024.6	6848.8	6080.0	3371.9	1482.0	685.5	401.2	325.9	268.4	236.0	214.2
37.5°	7496.6	7277.8	6460.8	3326.9	1408.6	654.4	367.5	309.4	250.5	217.5	194.3
40°	8018.8	7771.6	6826.3	3262.1	1336.6	643.8	341.7	296.8	236.6	202.9	179.1
42.5°	8568.8	8277.3	7143.0	3194.0	1291.0	607.5	339.1	284.2	226.1	189.7	165.9
45°	9030.8	8735.4	7468.2	3171.6	1258.6	567.8	350.3	275.6	218.8	179.1	156.0
47.5°	9399.0	9119.4	7801.3	3221.8	1240.1	531.5	319.3	286.9	214.8	169.9	147.4
50°	9838.6	9522.0	8270.7	3371.9	1213.0	495.1	288.9	328.5	214.8	163.9	140.1
52.5°	10389.9	10076.6	8794.2	3604.5	1158.8	444.9	259.8	329.2	216.8	156.0	130.9
55°	11083.3	10855.9	9541.8	3859.7	1072.2	370.8	224.7	282.9	208.9	141.5	122.3
57.5°	11748.3	11562.5	10223.3	4034.2	956.5	289.5	195.7	228.1	191.0	124.3	109.1
59°	11930.1	11727.1	10473.2	4042.1	869.9	252.5	181.1	188.4	187.1	116.3	101.1
60°	11930.1	11714.6	10545.2	3999.8	807.1	232.0	171.9	167.9	195.0	111.1	96.5
62.5°	11713.9	11411.2	10311.2	3713.6	658.4	197.6	150.1	138.8	175.2	99.8	85.3
65°	11264.4	10823.5	9514.0	3196.0	587.0	181.1	129.6	113.7	121.6	87.9	74.7
67.5°	10514.8	9917.3	8364.5	2581.9	558.6	176.5	111.7	96.5	91.9	75.4	65.4
70°	9194.8	8531.8	6969.1	2030.0	534.1	174.5	93.9	81.3	74.0	63.5	55.5
72.5°	6692.2	6000.7	4947.7	1587.1	519.6	178.5	75.4	68.1	60.8	49.6	43.0
75°	3828.0	3375.2	2780.9	1048.4	442.9	170.5	58.2	56.8	43.6	35.7	29.7
77.5°	1977.8	1917.6	1666.4	402.6	212.2	74.7	38.3	33.1	25.8	21.8	17.8
80°	853.4	844.1	730.4	116.3	56.2	41.6	21.8	13.9	11.9	9.3	7.3
82.5°	294.8	294.8	259.8	39.0	25.1	20.5	2.6	0.0	0.0	0.0	0.0
85°	59.5	66.8	46.9	0.0	8.6	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°	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2
2.5°	3964.1	3884.1	3878.9	3828.6	3765.8	3737.4	3720.9	3750.0	3785.7	3789.6	3843.2
5°	3077.0	2993.1	3028.1	2938.9	2956.7	2938.9	2909.8	2915.1	2931.0	2881.4	2942.9
7.5°	2160.9	2097.4	2137.7	2113.9	2145.7	2158.2	2140.4	2113.9	2035.9	2026.7	2080.2
10°	1628.7	1556.7	1513.7	1468.8	1478.7	1499.2	1492.6	1473.4	1423.8	1426.5	1478.0
12.5°	1308.8	1228.2	1142.9	1032.5	1005.4	1020.6	1005.4	994.2	946.6	950.5	996.2
15°	992.8	926.7	837.5	748.9	700.7	705.3	663.0	633.3	603.5	567.8	595.6
17.5°	670.3	630.0	603.5	577.1	519.6	506.3	452.8	395.3	372.8	356.3	368.2
20°	474.6	452.8	442.2	440.9	407.8	391.3	339.1	303.4	292.2	288.9	296.1
22.5°	396.6	380.7	365.5	357.0	340.4	321.3	281.6	263.7	255.8	251.8	257.1
25°	345.1	333.2	317.3	302.7	296.1	275.6	247.2	234.0	228.7	224.7	227.4
27.5°	306.7	296.1	277.6	268.4	263.1	245.2	220.8	210.2	205.6	204.3	203.6
30°	276.3	266.4	249.2	238.6	229.4	213.5	199.0	188.4	183.8	182.4	181.1
32.5°	245.9	238.0	226.7	216.2	206.2	191.7	179.1	170.5	163.3	161.9	161.3
35°	207.6	199.6	193.7	193.0	183.8	169.9	160.6	149.4	143.4	141.5	142.1
37.5°	184.4	173.8	160.6	165.3	162.6	152.7	140.1	128.9	122.9	121.6	121.6
40°	169.9	158.6	143.4	135.5	143.4	141.5	121.6	110.4	104.4	103.8	102.5
42.5°	156.0	144.8	127.6	114.4	118.3	124.3	105.1	94.5	88.6	87.3	85.3
45°	146.1	134.2	115.0	99.8	91.9	104.4	89.9	76.7	73.4	70.7	69.4
47.5°	136.8	125.6	103.8	86.6	73.4	75.4	72.1	62.8	58.8	56.2	55.5
50°	128.9	117.0	93.9	74.0	60.8	55.5	58.2	49.6	46.3	43.6	42.3
52.5°	119.6	108.4	83.3	64.1	50.9	43.6	44.3	39.0	35.7	33.7	33.1
55°	112.4	101.1	74.7	56.2	44.9	35.7	31.7	30.4	28.4	27.1	26.4
57.5°	102.5	91.9	66.1	47.6	38.3	29.1	24.5	24.5	23.8	22.5	21.8
59°	96.5	87.3	60.8	43.0	35.0	25.1	21.8	22.5	21.8	20.5	19.8
60°	91.9	83.3	56.8	39.7	33.1	23.1	19.8	21.2	20.5	19.2	18.5
62.5°	81.3	75.4	48.9	33.1	29.1	18.5	16.5	17.8	17.8	17.2	16.5
65°	71.4	64.8	41.6	27.8	27.1	15.9	13.2	15.9	16.5	15.2	13.9
67.5°	62.1	55.5	36.4	22.5	25.1	12.6	9.9	13.2	17.8	13.9	12.6
70°	52.9	46.3	28.4	17.8	26.4	8.6	7.9	11.9	21.2	15.2	11.9
72.5°	41.0	35.7	19.8	13.2	28.4	5.9	5.9	9.9	23.8	16.5	11.2
75°	28.4	23.1	11.9	7.9	23.1	4.0	4.0	9.3	22.5	15.2	10.6
77.5°	16.5	12.6	4.0	0.7	11.9	0.0	0.7	6.6	15.9	9.3	4.6
80°	5.9	2.6	0.0	0.0	7.3	0.0	0.0	0.0	1.3	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2
2.5°	3857.0	3946.3	4026.3	4147.2	4290.7	4455.9	4598.0	4750.7	4894.2	4953.7	4994.7
5°	2955.4	3065.8	3194.7	3372.5	3609.2	3900.7	4173.7	4482.4	4814.2	4980.1	5136.1
7.5°	2089.5	2201.9	2361.8	2550.9	2837.1	3184.1	3541.1	3967.4	4416.9	4679.4	4937.8
10°	1502.5	1640.6	1790.0	2048.5	2339.3	2668.5	3036.1	3512.0	4013.0	4303.9	4615.2
12.5°	1022.6	1179.9	1406.0	1695.5	2037.3	2359.8	2679.1	3133.2	3714.9	4003.1	4336.9
15°	613.4	700.7	940.0	1275.1	1694.2	2096.1	2445.8	2901.2	3521.2	3874.2	4221.3
17.5°	378.1	418.4	548.6	823.6	1263.9	1772.2	2251.4	2822.5	3549.0	3978.7	4350.2
20°	301.4	317.3	358.9	486.5	837.5	1415.2	2032.6	2806.7	3775.7	4304.6	4703.1
22.5°	261.8	277.0	304.7	353.6	526.8	1059.6	1825.1	2821.2	4101.0	4793.0	5258.4
25°	230.7	243.9	270.4	310.7	386.0	746.3	1603.0	2886.0	4524.7	5399.2	5893.6
27.5°	206.2	217.5	241.9	278.9	331.2	520.9	1351.1	2964.7	5027.0	6019.2	6507.1
30°	183.8	193.7	215.5	249.9	287.5	400.6	1074.8	3018.2	5530.1	6507.1	6945.3
32.5°	164.6	171.9	191.7	220.8	249.9	319.3	817.0	3009.6	5903.6	6912.9	7260.6
35°	144.8	152.0	169.2	194.3	217.5	263.7	642.5	2849.0	6228.8	7334.0	7621.5
37.5°	122.9	132.2	148.7	171.2	187.1	232.0	519.6	2655.3	6558.6	7815.2	8024.1
40°	104.4	113.7	128.2	152.7	162.6	220.1	399.3	2419.3	6929.5	8353.3	8465.7
42.5°	86.6	95.2	110.4	131.5	153.4	189.7	295.5	2149.6	7285.7	8813.4	8868.2
45°	70.1	78.7	94.5	115.7	163.9	157.3	228.7	1860.8	7573.3	9196.1	9213.9
47.5°	55.5	63.5	80.0	109.1	152.7	125.6	163.3	1634.0	7814.6	9494.9	9447.9
50°	43.0	49.6	66.8	124.9	133.5	103.8	123.6	1558.7	8030.7	9680.0	9558.3
52.5°	33.7	39.7	54.9	117.0	103.8	85.9	103.8	1629.4	8326.9	9833.3	9620.5
55°	27.1	33.1	43.0	66.8	70.7	72.7	88.6	1695.5	8837.8	10192.9	9987.3
57.5°	22.5	28.4	35.0	46.9	53.5	61.5	78.7	1702.8	9440.0	10790.5	10596.1
59°	20.5	25.8	31.7	41.6	46.9	56.2	74.0	1663.1	9652.2	11007.9	10910.8
60°	19.2	24.5	29.7	38.3	43.6	52.9	71.4	1625.4	9661.4	11000.0	11045.0
62.5°	16.5	21.8	26.4	32.4	37.0	44.9	64.1	1486.0	9270.1	10639.8	10964.3
65°	14.5	19.2	23.8	27.8	31.7	40.3	58.2	1231.5	8601.8	10058.7	10412.4
67.5°	13.2	16.5	21.8	24.5	28.4	35.7	51.6	877.8	7767.0	9348.1	9577.5
70°	11.9	15.9	19.8	22.5	25.8	31.1	44.3	504.4	6558.6	8307.7	8471.0
72.5°	11.2	15.2	17.8	21.2	23.1	27.8	40.3	237.3	4802.3	6655.1	7081.5
75°	9.9	13.9	16.5	19.8	21.8	25.1	34.4	113.7	3194.0	4816.2	5300.7
77.5°	5.9	11.2	15.2	17.8	19.2	21.8	28.4	65.4	2038.6	3333.5	3926.5
80°	0.0	4.0	11.2	15.2	16.5	18.5	21.8	51.6	1090.7	1904.4	2285.8
82.5°	0.0	0.0	7.9	11.9	11.2	12.6	16.5	32.4	491.8	1244.7	1402.7
85°	0.0	0.0	2.6	9.3	7.9	5.9	11.2	11.2	107.7	630.0	786.0
87.5°	0.0	0.0	0.0	0.7	4.0	2.6	4.6	1.3	0.7	46.9	190.4
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°	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2	4545.2
2.5°	5138.1	5187.0	5269.6	5308.6	5289.5	5208.2	5111.0	5011.8	4953.7	4976.8
5°	5454.1	5705.9	5851.3	5899.6	5818.9	5636.5	5397.9	5083.2	4971.5	4941.1
7.5°	5454.1	5928.0	6228.1	6281.0	6101.2	5743.6	5296.1	4804.9	4641.7	4582.2
10°	5262.4	5907.5	6325.9	6409.9	6158.7	5623.9	5024.4	4463.9	4270.2	4208.7
12.5°	5046.2	5740.9	6181.8	6297.5	6091.3	5505.0	4836.0	4233.2	4005.1	3951.6
15°	4913.4	5536.0	5900.9	5984.9	5897.6	5435.6	4791.1	4163.8	3895.4	3843.8
17.5°	4960.9	5377.4	5508.9	5557.8	5616.7	5411.1	4913.4	4315.8	3976.0	3927.1
20°	5140.1	5210.1	5142.1	5203.5	5362.2	5434.9	5204.9	4683.3	4275.5	4210.0
22.5°	5444.1	5123.6	4932.5	4957.0	5150.0	5513.6	5650.4	5208.2	4737.5	4655.6
25°	5798.5	5193.6	4816.2	4794.4	4992.7	5617.3	6057.6	5779.3	5284.2	5193.6
27.5°	6244.0	5350.9	4792.4	4770.6	4937.8	5714.5	6396.0	6343.8	5859.9	5705.3
30°	6587.7	5505.6	4863.1	4812.9	4992.7	5781.9	6667.7	6823.0	6318.7	6216.2
32.5°	6834.3	5688.1	4978.1	4905.4	5147.4	5898.3	6877.2	7262.0	6743.1	6587.7
35°	7022.0	5886.4	5163.9	5044.2	5360.2	6074.8	7073.6	7729.3	7194.5	7024.6
37.5°	7197.8	6164.7	5454.1	5311.3	5694.0	6359.0	7281.1	8259.4	7699.5	7496.6
40°	7443.1	6480.0	5901.6	5774.7	6255.2	6746.4	7540.2	8812.0	8274.0	8018.8
42.5°	7688.3	6818.4	6359.7	6394.0	6955.2	7217.0	7874.7	9396.4	8841.1	8568.8
45°	7912.4	7167.4	7012.1	7170.7	7605.0	7733.3	8207.2	9734.2	9293.9	9030.8
47.5°	8112.0	7603.7	7660.5	8082.9	8344.0	8200.6	8455.7	10025.7	9631.0	9399.0
50°	8344.0	8168.2	8515.2	9112.8	9194.8	8623.6	8681.8	10370.7	10025.0	9838.6
52.5°	8597.9	8763.1	9461.8	9988.7	9962.2	9083.1	8909.2	10757.4	10565.1	10389.9
55°	8886.1	9243.7	10295.4	10808.3	10785.8	9596.0	9286.0	11235.3	11241.9	11083.3
57.5°	9313.8	9657.5	10861.2	11471.3	11509.0	10188.3	9924.5	11770.8	11854.0	11748.3
59°	9620.5	9925.9	11085.3	11748.3	11901.6	10646.4	10391.2	12081.4	12026.6	11930.1
60°	9847.9	10096.4	11196.3	11893.0	12129.7	10957.0	10735.6	12263.9	12047.1	11930.1
62.5°	10410.4	10467.9	11396.6	12057.0	12392.1	11647.1	11704.7	12574.6	11904.9	11713.9
65°	10672.8	10702.6	11394.0	11763.5	12138.3	12184.6	12583.8	12583.8	11557.9	11264.4
67.5°	10563.1	10419.6	10828.8	10790.5	11164.6	11865.3	12914.3	12122.4	10894.2	10514.8
70°	9670.7	9118.8	8937.0	8953.5	9239.7	10320.5	12259.9	10764.7	9638.3	9194.8
72.5°	8046.6	6722.6	6273.7	6786.0	6860.7	7931.6	10448.1	8106.7	7107.9	6692.2
75°	6472.0	4738.8	4009.1	4549.8	4676.7	5804.4	8082.3	5048.9	4151.9	3828.0
77.5°	4649.6	3401.6	2876.8	2839.1	3003.0	3681.2	5735.0	2541.0	2119.2	1977.8
80°	2641.4	2238.9	2410.7	2274.6	2357.2	2301.7	2724.7	1114.5	912.9	853.4
82.5°	1594.4	1323.4	1433.1	1193.1	1509.8	1314.8	1049.7	357.0	310.0	294.8
85°	1037.1	723.2	376.8	252.5	520.2	840.2	234.7	97.2	74.7	59.5
87.5°	357.6	184.4	18.5	7.9	55.5	156.7	8.6	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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