

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: P383172

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383172
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-SA5A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 16083.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

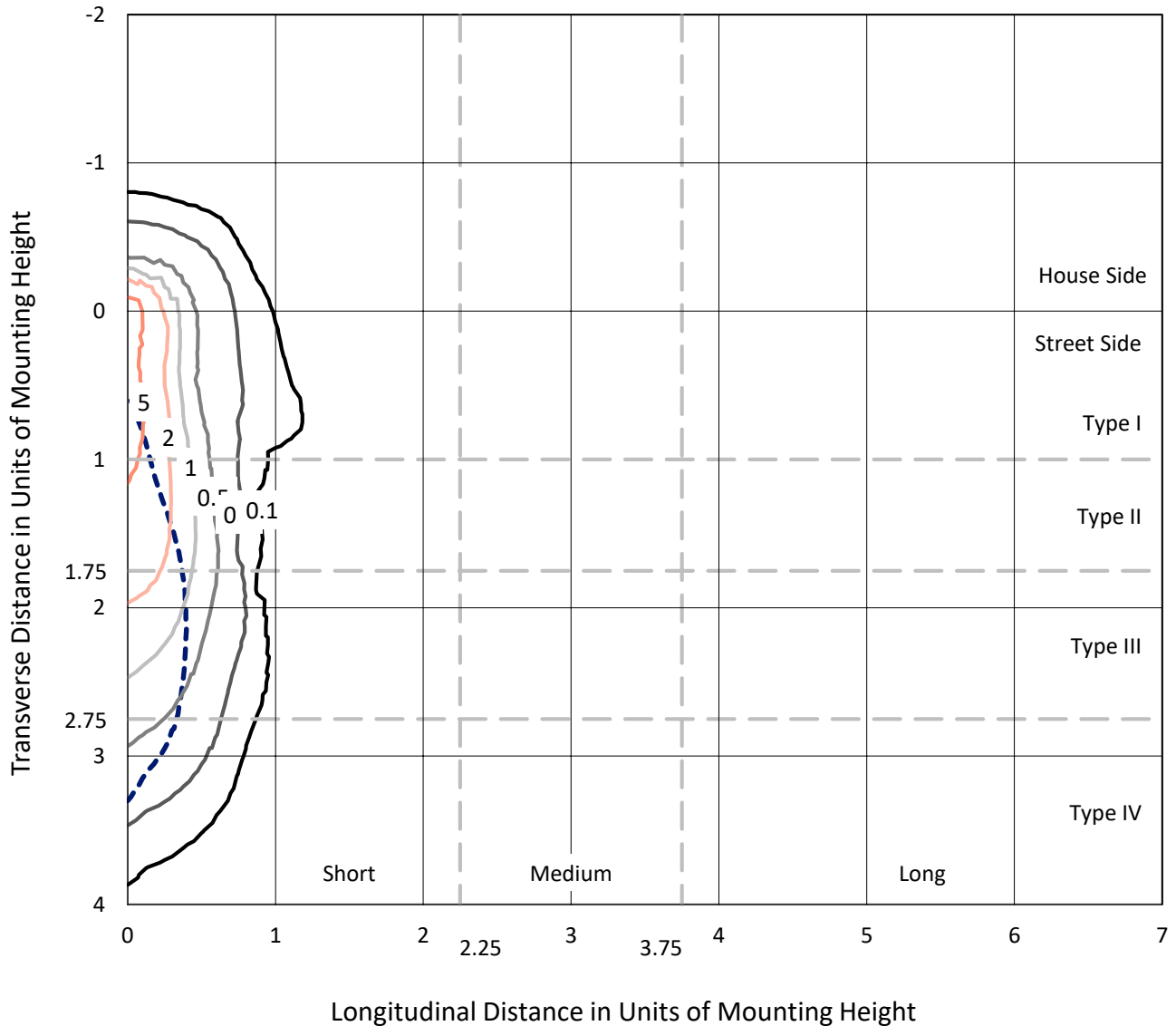
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

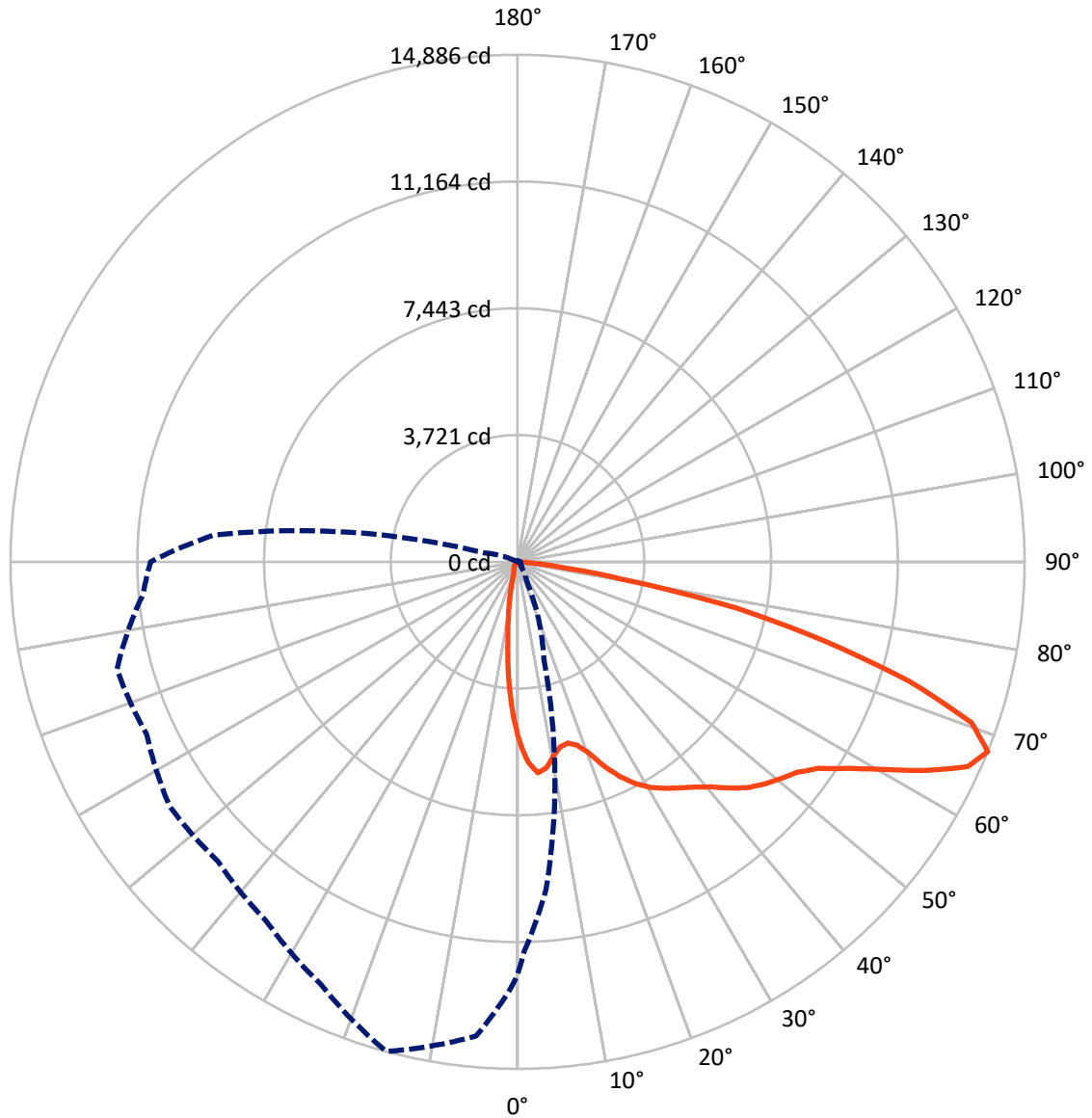
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.6	0.0	1946.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	14136.6	0.0	14136.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	16083.2	0.0	16083.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.1	2.5
10°-20°	800.4	5.0
20°-30°	1136.5	7.1
30°-40°	1678.7	10.4
40°-50°	2421.0	15.1
50°-60°	3398.6	21.1
60°-70°	3961.8	24.6
70°-80°	2025.4	12.6
80°-90°	258.7	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°	16083.2	100.0
0°-180°	16083.2	100.0

Coefficient of Utilization



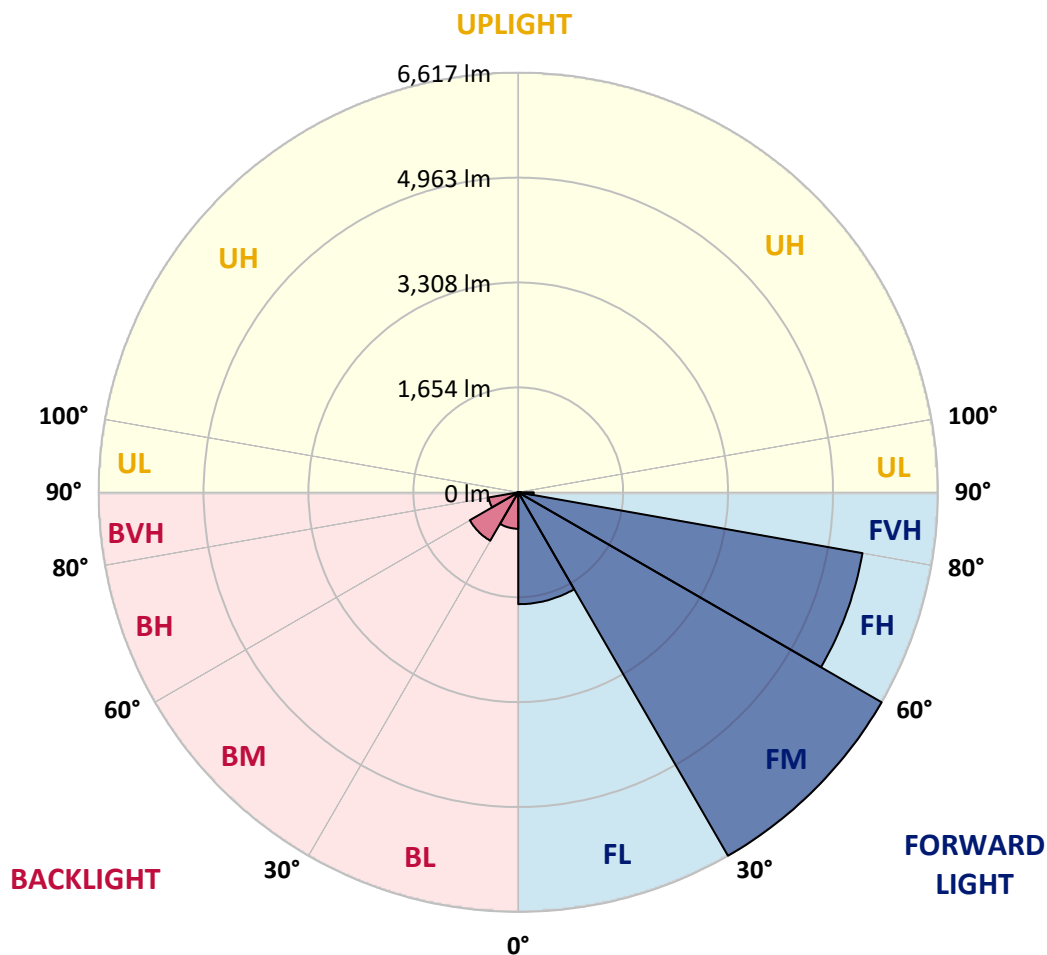
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.0	11.0			
FM (30°-60°)	6616.9	41.1			
FH (60°-80°)	5512.7	34.3			G3/7500
FVH (80°-90°)	242.9	1.5			G3/500
BL (0°-30°)	575.0	3.6	B2/1000		
BM (30°-60°)	881.5	5.5	B1/1000		
BH (60°-80°)	474.4	2.9	B1/500		G1/500
BVH (80°-90°)	15.7	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0
2.5°	5736.6	5692.4	5643.7	5484.4	5336.6	5167.5	5029.5	4933.6	4813.1	4656.9	4617.3
5°	5695.5	5648.3	5495.1	5140.7	4830.6	4528.9	4237.9	4067.2	3855.4	3640.5	3587.2
7.5°	5281.7	5232.2	5011.3	4525.9	4108.3	3672.5	3294.6	3060.7	2821.5	2624.8	2520.5
10°	4851.2	4797.1	4548.7	3959.7	3445.4	3051.6	2774.2	2550.9	2324.7	2114.3	1946.7
12.5°	4554.8	4484.0	4214.2	3546.8	3098.8	2831.3	2572.3	2304.8	1998.5	1773.0	1588.7
15°	4430.6	4349.9	4064.9	3387.6	2976.1	2662.2	2324.7	1996.3	1637.4	1379.1	1210.0
17.5°	4526.7	4421.5	4115.9	3376.9	2822.2	2394.7	1968.1	1582.5	1193.2	931.8	811.5
20°	4852.8	4714.8	4327.0	3373.9	2635.5	2077.1	1536.0	1100.3	786.3	632.4	569.2
22.5°	5366.3	5184.2	4630.3	3398.2	2442.8	1743.3	1109.4	747.5	590.5	510.5	473.1
25°	5986.5	5775.5	5066.9	3484.4	2273.6	1418.7	806.2	590.5	498.3	439.6	408.4
27.5°	6576.3	6404.9	5618.5	3608.5	2142.6	1156.6	654.5	500.6	425.9	387.1	361.9
30°	7165.3	6949.6	6184.6	3756.4	1984.8	979.1	575.2	456.4	381.7	340.6	324.6
32.5°	7593.4	7414.4	6628.1	3863.0	1816.4	863.3	514.3	417.5	356.6	314.7	291.0
35°	8097.1	7894.4	7008.3	3886.6	1708.3	790.1	462.5	375.6	309.4	272.0	246.9
37.5°	8641.1	8388.9	7447.2	3834.8	1623.7	754.3	423.7	356.6	288.8	250.7	224.0
40°	9243.0	8958.0	7868.5	3760.2	1540.6	742.2	394.0	342.1	272.8	233.9	206.5
42.5°	9876.9	9540.9	8233.5	3681.7	1488.1	700.2	390.9	327.6	260.6	218.6	191.2
45°	10409.6	10069.0	8608.3	3655.8	1450.7	654.5	403.8	317.8	252.2	206.5	179.8
47.5°	10834.0	10511.7	8992.3	3713.7	1429.4	612.6	368.1	330.7	247.6	195.8	169.9
50°	11340.7	10975.7	9533.4	3886.6	1398.2	570.7	332.9	378.7	247.6	188.9	161.5
52.5°	11976.1	11614.9	10136.8	4154.8	1335.7	512.8	299.4	379.4	249.9	179.8	150.8
55°	12775.3	12513.3	10998.5	4449.0	1235.9	427.5	259.1	326.1	240.8	163.0	140.9
57.5°	13541.9	13327.7	11784.1	4650.1	1102.5	333.8	225.5	262.9	220.2	143.3	125.8
59°	13751.4	13517.5	12072.1	4659.2	1002.7	291.0	208.8	217.1	215.7	134.1	116.5
60°	13751.4	13503.0	12155.1	4610.5	930.3	267.4	198.1	193.6	224.8	128.0	111.2
62.5°	13502.2	13153.3	11885.4	4280.6	758.9	227.9	173.0	160.0	201.9	115.0	98.3
65°	12984.1	12475.9	10966.6	3684.0	676.6	208.8	149.3	131.1	140.2	101.4	86.1
67.5°	12120.1	11431.3	9641.5	2976.1	643.8	203.4	128.7	111.2	105.9	86.8	75.5
70°	10598.5	9834.3	8033.1	2339.9	615.7	201.1	108.2	93.7	85.3	73.1	64.0
72.5°	7713.9	6916.8	5703.1	1829.4	598.9	205.7	86.8	78.4	70.1	57.1	49.6
75°	4412.4	3890.4	3205.5	1208.4	510.5	196.6	67.1	65.5	50.3	41.2	34.3
77.5°	2279.7	2210.4	1920.9	464.0	244.6	86.1	44.2	38.1	29.7	25.2	20.6
80°	983.6	973.0	841.9	134.1	64.7	48.0	25.2	16.0	13.7	10.7	8.4
82.5°	339.8	339.8	299.4	45.0	29.0	23.7	3.1	0.0	0.0	0.0	0.0
85°	68.6	76.9	54.1	0.0	9.9	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°	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0
2.5°	4569.3	4477.1	4471.1	4413.1	4340.7	4307.9	4288.9	4322.5	4363.6	4368.2	4429.9
5°	3546.8	3450.1	3490.4	3387.6	3408.2	3387.6	3354.0	3360.1	3378.4	3321.2	3392.1
7.5°	2490.8	2417.6	2464.1	2436.6	2473.3	2487.7	2467.1	2436.6	2346.8	2336.1	2397.8
10°	1877.4	1794.3	1744.8	1693.0	1704.5	1728.1	1720.5	1698.4	1641.2	1644.3	1703.7
12.5°	1508.6	1415.7	1317.4	1190.1	1158.9	1176.5	1158.9	1146.0	1091.1	1095.7	1148.2
15°	1144.4	1068.2	965.4	863.3	807.7	813.0	764.2	730.0	695.7	654.5	686.5
17.5°	772.6	726.1	695.7	665.1	598.9	583.6	521.9	455.6	429.7	410.7	424.4
20°	547.1	521.9	509.7	508.3	470.2	451.1	390.9	349.7	336.8	332.9	341.3
22.5°	457.2	438.9	421.3	411.5	392.4	370.3	324.6	304.1	294.8	290.3	296.4
25°	397.8	384.0	365.7	349.0	341.3	317.8	285.0	269.7	263.6	259.1	262.1
27.5°	353.5	341.3	320.0	309.4	303.2	282.6	254.5	242.3	237.0	235.4	234.7
30°	318.5	307.0	287.3	275.1	264.4	246.1	229.3	217.1	211.8	210.3	208.8
32.5°	283.5	274.3	261.3	249.2	237.7	221.0	206.5	196.6	188.2	186.7	185.9
35°	239.2	230.1	223.3	222.5	211.8	195.8	185.2	172.2	165.3	163.0	163.9
37.5°	212.6	200.4	185.2	190.5	187.4	176.0	161.5	148.6	141.7	140.2	140.2
40°	195.8	182.9	165.3	156.2	165.3	163.0	140.2	127.2	120.4	119.6	118.1
42.5°	179.8	166.8	147.1	131.8	136.4	143.3	121.1	109.0	102.1	100.6	98.3
45°	168.4	154.6	132.6	115.0	105.9	120.4	103.6	88.4	84.6	81.5	80.0
47.5°	157.7	144.8	119.6	99.8	84.6	86.8	83.1	72.4	67.8	64.7	64.0
50°	148.6	134.9	108.2	85.3	70.1	64.0	67.1	57.1	53.4	50.3	48.7
52.5°	137.9	124.9	96.0	73.9	58.7	50.3	51.0	45.0	41.2	38.8	38.1
55°	129.5	116.5	86.1	64.7	51.8	41.2	36.6	35.0	32.8	31.2	30.5
57.5°	118.1	105.9	76.2	54.9	44.2	33.5	28.2	28.2	27.4	25.9	25.2
59°	111.2	100.6	70.1	49.6	40.3	29.0	25.2	25.9	25.2	23.7	22.8
60°	105.9	96.0	65.5	45.7	38.1	26.6	22.8	24.4	23.7	22.1	21.3
62.5°	93.7	86.8	56.4	38.1	33.5	21.3	19.0	20.6	20.6	19.8	19.0
65°	82.3	74.7	48.0	32.0	31.2	18.3	15.3	18.3	19.0	17.5	16.0
67.5°	71.6	64.0	41.9	25.9	29.0	14.4	11.5	15.3	20.6	16.0	14.4
70°	60.9	53.4	32.8	20.6	30.5	9.9	9.1	13.7	24.4	17.5	13.7
72.5°	47.2	41.2	22.8	15.3	32.8	6.9	6.9	11.5	27.4	19.0	12.9
75°	32.8	26.6	13.7	9.1	26.6	4.6	4.6	10.7	25.9	17.5	12.2
77.5°	19.0	14.4	4.6	0.7	13.7	0.0	0.7	7.6	18.3	10.7	5.3
80°	6.9	3.1	0.0	0.0	8.4	0.0	0.0	0.0	1.5	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°	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0
2.5°	4445.9	4548.7	4641.0	4780.4	4945.7	5136.2	5300.0	5476.0	5641.4	5709.9	5757.2
5°	3406.6	3533.8	3682.4	3887.3	4160.2	4496.2	4810.9	5166.6	5549.1	5740.4	5920.3
7.5°	2408.5	2538.0	2722.4	2940.3	3270.2	3670.2	4081.7	4573.2	5091.3	5393.8	5691.7
10°	1731.8	1891.1	2063.3	2361.2	2696.5	3076.0	3499.5	4048.1	4625.7	4961.0	5319.8
12.5°	1178.7	1360.1	1620.6	1954.4	2348.2	2720.1	3088.1	3611.6	4282.0	4614.2	4999.1
15°	707.0	807.7	1083.5	1469.8	1952.8	2416.1	2819.1	3344.2	4058.8	4465.7	4865.8
17.5°	435.9	482.3	632.4	949.3	1456.8	2042.8	2595.1	3253.4	4090.8	4586.1	5014.3
20°	347.5	365.7	413.7	560.8	965.4	1631.3	2342.9	3235.2	4352.2	4961.7	5421.1
22.5°	301.7	319.2	351.3	407.6	607.3	1221.4	2103.7	3251.9	4727.0	5524.8	6061.2
25°	266.0	281.1	311.6	358.1	445.0	860.2	1847.7	3326.6	5215.5	6223.5	6793.4
27.5°	237.7	250.7	278.9	321.6	381.7	600.4	1557.4	3417.3	5794.5	6938.2	7500.4
30°	211.8	223.3	248.4	288.0	331.4	461.8	1238.9	3479.0	6374.3	7500.4	8005.6
32.5°	189.8	198.1	221.0	254.5	288.0	368.1	941.8	3469.1	6804.9	7968.3	8369.1
35°	166.8	175.2	195.1	224.0	250.7	304.1	740.6	3284.0	7179.7	8453.7	8785.1
37.5°	141.7	152.4	171.4	197.3	215.7	267.4	598.9	3060.7	7559.9	9008.3	9249.1
40°	120.4	131.1	147.8	176.0	187.4	253.8	460.2	2788.7	7987.4	9628.6	9758.1
42.5°	99.8	109.7	127.2	151.7	176.8	218.6	340.6	2477.8	8398.1	10158.9	10222.2
45°	80.8	90.6	109.0	133.3	188.9	181.4	263.6	2144.9	8729.4	10600.1	10620.6
47.5°	64.0	73.1	92.2	125.8	176.0	144.8	188.2	1883.5	9007.6	10944.5	10890.4
50°	49.6	57.1	76.9	144.0	153.9	119.6	142.5	1796.7	9256.8	11157.8	11017.6
52.5°	38.8	45.7	63.3	134.9	119.6	99.0	119.6	1878.2	9598.1	11334.5	11089.2
55°	31.2	38.1	49.6	76.9	81.5	83.8	102.1	1954.4	10187.0	11749.1	11512.1
57.5°	25.9	32.8	40.3	54.1	61.8	70.9	90.6	1962.8	10881.2	12437.8	12213.8
59°	23.7	29.7	36.6	48.0	54.1	64.7	85.3	1917.0	11125.8	12688.5	12576.5
60°	22.1	28.2	34.3	44.2	50.3	60.9	82.3	1873.6	11136.5	12679.4	12731.2
62.5°	19.0	25.2	30.5	37.4	42.7	51.8	73.9	1712.8	10685.4	12264.1	12638.2
65°	16.8	22.1	27.4	32.0	36.6	46.5	67.1	1419.5	9915.0	11594.3	12002.0
67.5°	15.3	19.0	25.2	28.2	32.8	41.2	59.4	1011.8	8952.7	10775.3	11039.7
70°	13.7	18.3	22.8	25.9	29.7	35.8	51.0	581.4	7559.9	9576.0	9764.2
72.5°	12.9	17.5	20.6	24.4	26.6	32.0	46.5	273.5	5535.4	7671.2	8162.6
75°	11.5	16.0	19.0	22.8	25.2	29.0	39.6	131.1	3681.7	5551.5	6109.9
77.5°	6.9	12.9	17.5	20.6	22.1	25.2	32.8	75.5	2349.8	3842.4	4525.9
80°	0.0	4.6	12.9	17.5	19.0	21.3	25.2	59.4	1257.2	2195.1	2634.8
82.5°	0.0	0.0	9.1	13.7	12.9	14.4	19.0	37.4	566.8	1434.7	1616.8
85°	0.0	0.0	3.1	10.7	9.1	6.9	12.9	12.9	124.2	726.1	905.9
87.5°	0.0	0.0	0.0	0.7	4.6	3.1	5.3	1.5	0.7	54.1	219.5
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°	359°	360°
0°	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0
2.5°	5922.5	5978.9	6074.2	6119.1	6097.0	6003.3	5891.3	5777.0	5709.9	5736.6
5°	6286.7	6577.0	6744.7	6800.3	6707.3	6497.0	6222.0	5859.2	5730.5	5695.5
7.5°	6286.7	6833.0	7179.0	7239.9	7032.6	6620.4	6104.6	5538.5	5350.3	5281.7
10°	6065.8	6809.4	7291.7	7388.5	7099.0	6482.5	5791.4	5145.3	4922.1	4851.2
12.5°	5816.6	6617.4	7125.6	7259.0	7021.3	6345.4	5574.3	4879.4	4616.6	4554.8
15°	5663.4	6381.2	6801.8	6898.6	6798.0	6265.4	5522.5	4799.4	4490.1	4430.6
17.5°	5718.3	6198.3	6350.0	6406.3	6474.2	6237.2	5663.4	4974.7	4583.0	4526.7
20°	5924.8	6005.6	5927.1	5998.0	6180.8	6264.7	5999.4	5398.3	4928.2	4852.8
22.5°	6275.3	5905.7	5685.5	5713.7	5936.2	6355.3	6513.0	6003.3	5460.8	5366.3
25°	6683.7	5986.5	5551.5	5526.3	5754.9	6474.9	6982.4	6661.6	6090.9	5986.5
27.5°	7197.2	6167.9	5524.0	5498.9	5691.7	6586.9	7372.5	7312.3	6754.6	6576.3
30°	7593.4	6346.2	5605.6	5547.6	5754.9	6664.7	7685.6	7864.7	7283.3	7165.3
32.5°	7877.6	6556.4	5738.1	5654.3	5933.2	6798.7	7927.2	8370.6	7772.5	7593.4
35°	8094.0	6785.0	5952.2	5814.3	6178.5	7002.2	8153.5	8909.3	8292.9	8097.1
37.5°	8296.7	7105.8	6286.7	6122.1	6563.3	7329.8	8392.7	9520.4	8875.0	8641.1
40°	8579.4	7469.2	6802.5	6656.3	7210.2	7776.3	8691.4	10157.3	9537.1	9243.0
42.5°	8862.1	7859.4	7330.5	7370.2	8017.1	8318.8	9076.9	10830.9	10190.9	9876.9
45°	9120.3	8261.6	8082.6	8265.4	8766.0	8913.9	9460.1	11220.2	10712.8	10409.6
47.5°	9350.5	8764.6	8830.0	9317.0	9617.9	9452.6	9746.7	11556.2	11101.3	10834.0
50°	9617.9	9415.2	9815.3	10504.0	10598.5	9940.2	10007.2	11954.0	11555.5	11340.7
52.5°	9910.5	10101.0	10906.4	11513.6	11483.1	10469.8	10269.4	12399.7	12178.0	11976.1
55°	10242.6	10654.9	11867.2	12458.4	12432.5	11061.0	10703.7	12950.6	12958.2	12775.3
57.5°	10735.6	11131.9	12519.3	13222.6	13266.1	11743.7	11439.7	13567.8	13663.8	13541.9
59°	11089.2	11441.2	12777.7	13541.9	13718.6	12271.7	11977.7	13925.9	13862.6	13751.4
60°	11351.3	11637.8	12905.7	13708.7	13981.5	12629.8	12374.6	14136.1	13886.3	13751.4
62.5°	11999.7	12066.0	13136.5	13897.7	14284.0	13425.3	13491.6	14494.3	13722.4	13502.2
65°	12302.2	12336.5	13133.4	13559.4	13991.4	14044.8	14504.9	14504.9	13322.4	12984.1
67.5°	12175.7	12010.4	12482.0	12437.8	12869.1	13676.7	14885.9	13973.1	12557.4	12120.1
70°	11147.1	10510.9	10301.3	10320.4	10650.3	11896.0	14131.6	12408.1	11109.7	10598.5
72.5°	9275.0	7748.9	7231.5	7822.0	7908.1	9142.5	12043.1	9344.4	8193.1	7713.9
75°	7460.1	5462.3	4621.1	5244.4	5390.7	6690.6	9316.2	5819.7	4785.7	4412.4
77.5°	5359.5	3920.9	3315.9	3272.5	3461.4	4243.2	6610.5	2928.9	2442.8	2279.7
80°	3044.7	2580.7	2778.8	2621.8	2717.0	2653.0	3140.7	1284.6	1052.3	983.6
82.5°	1837.8	1525.4	1651.9	1375.3	1740.2	1515.4	1210.0	411.5	357.3	339.8
85°	1195.5	833.5	434.3	291.0	599.6	968.4	270.5	112.0	86.1	68.6
87.5°	412.2	212.6	21.3	9.1	64.0	180.5	9.9	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

(END OF REPORT)