

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: P383058

Luminaire Tested: **GAN-SA4A-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383058
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-SA4A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 12982 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

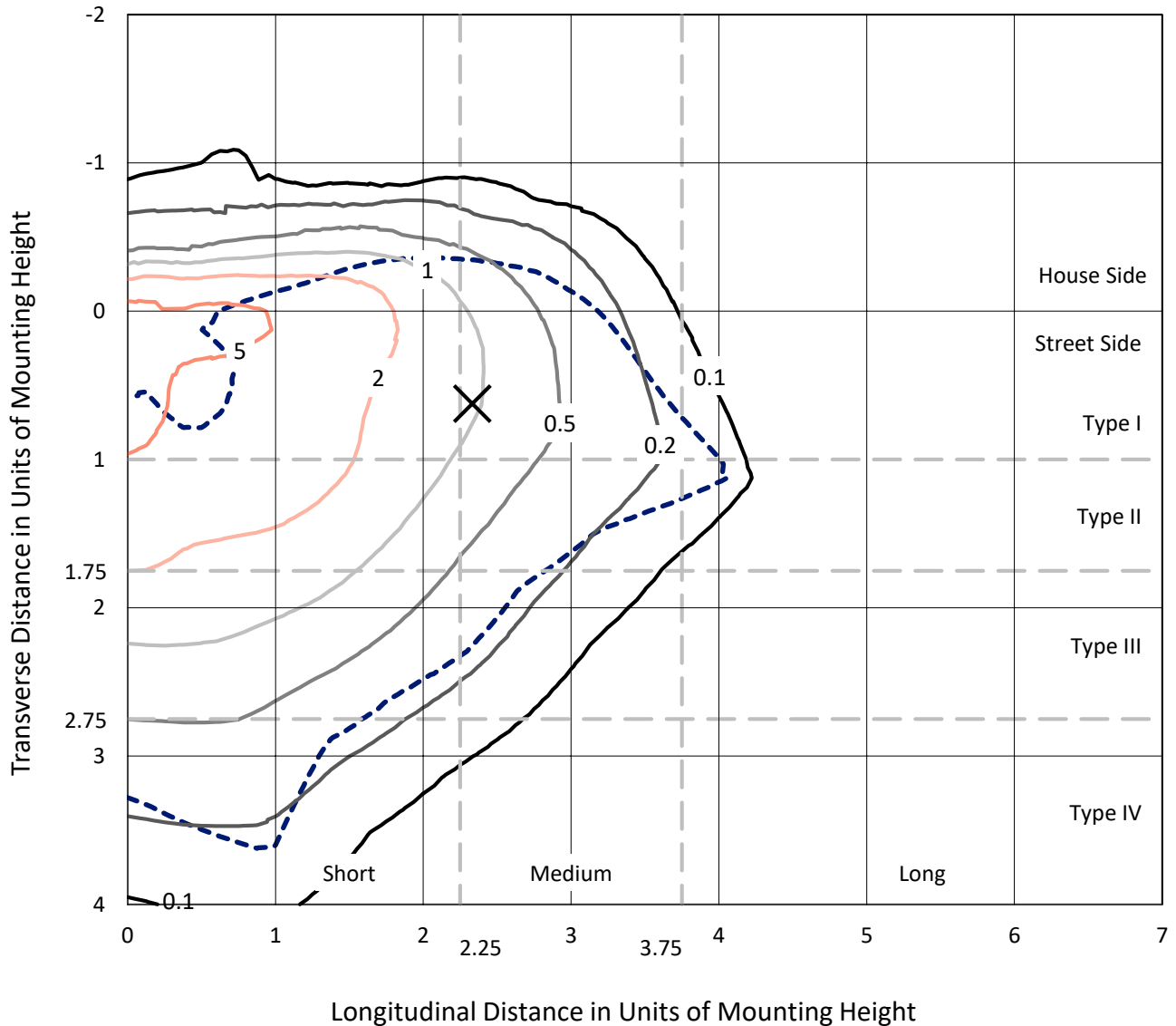
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

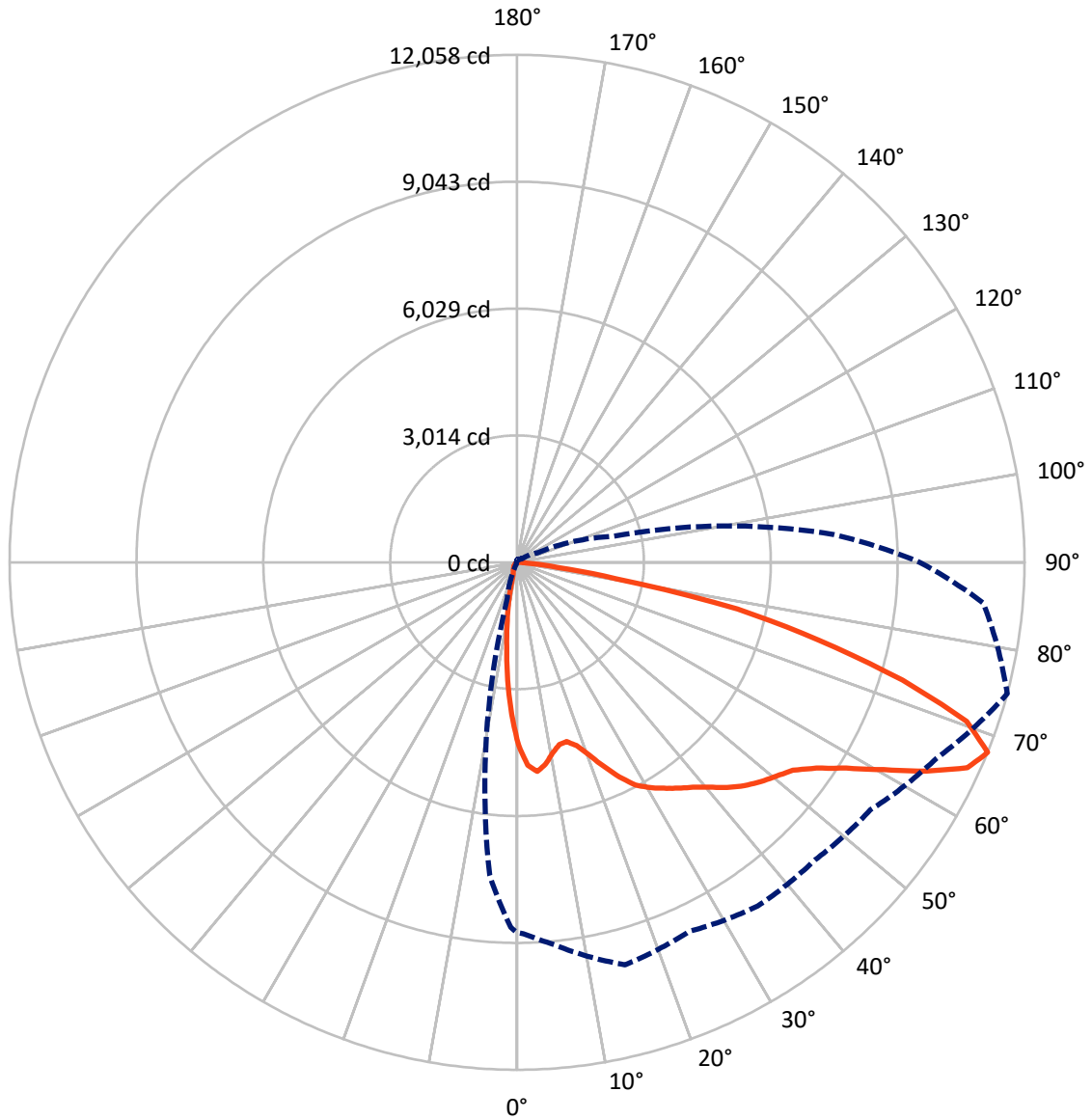
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	1948.1	0.0	1948.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	11033.9	0.0	11033.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	12982.0	0.0	12982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	2.5
10°-20°	650.5	5.0
20°-30°	920.3	7.1
30°-40°	1353.1	10.4
40°-50°	1944.8	15.0
50°-60°	2737.7	21.1
60°-70°	3197.4	24.6
70°-80°	1631.2	12.6
80°-90°	216.7	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°	12982.0	100.0
0°-180°	12982.0	100.0

Coefficient of Utilization

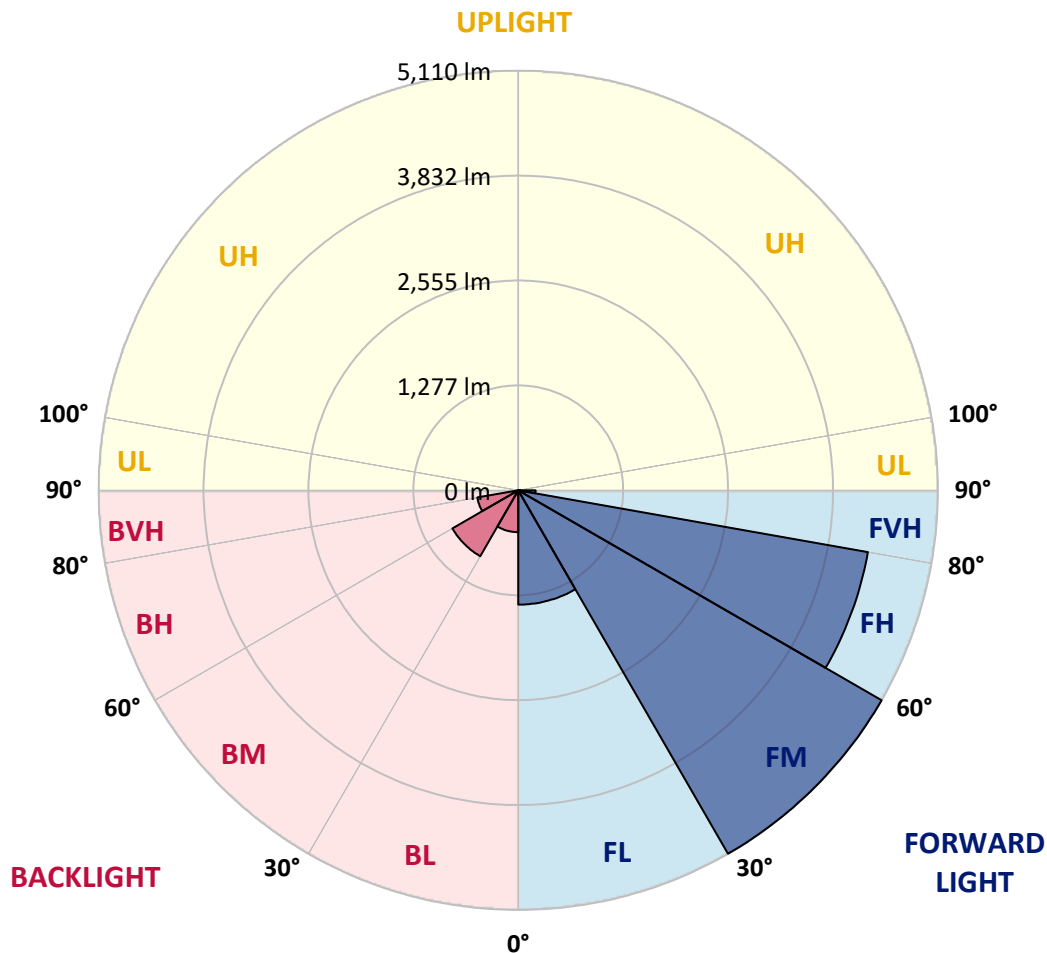


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.7	10.7			
FM (30°-60°)	5109.5	39.4			
FH (60°-80°)	4322.6	33.3			G2/5000
FVH (80°-90°)	210.1	1.6			G2/225
BL (0°-30°)	509.4	3.9	B2/1000		
BM (30°-60°)	926.1	7.1	B1/1000		
BH (60°-80°)	506.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.6	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3
2.5°	4721.2	4728.5	4766.6	4855.2	4951.7	4959.2	5024.3	4957.3	4934.6	4826.3	4714.4
5°	4756.9	4785.1	4916.1	5176.2	5402.0	5474.5	5526.1	5394.6	5256.2	4991.8	4709.4
7.5°	4469.7	4517.0	4723.0	5211.3	5614.7	5793.1	5826.9	5620.9	5282.1	4846.7	4422.2
10°	4101.9	4156.0	4404.5	5004.6	5558.7	5864.4	5911.1	5641.2	5154.1	4611.7	4111.8
12.5°	3804.3	3867.6	4121.5	4772.2	5366.3	5704.5	5796.7	5572.9	5043.4	4445.1	3899.6
15°	3667.1	3739.7	4006.6	4622.2	5152.9	5419.2	5495.4	5398.9	4981.9	4418.6	3850.4
17.5°	3745.8	3824.6	4100.0	4635.1	4952.4	5066.1	5127.7	5167.0	4981.9	4577.9	3994.3
20°	4068.7	4153.6	4445.1	4766.1	4786.4	4743.9	4809.8	4948.1	5039.8	4880.5	4339.9
22.5°	4515.1	4614.8	4943.8	4990.5	4705.2	4544.6	4553.3	4770.4	5144.8	5264.2	4819.5
25°	5059.4	5181.2	5515.7	5325.1	4739.0	4426.0	4422.9	4624.0	5247.6	5648.5	5354.0
27.5°	5600.0	5734.0	6028.0	5733.4	4878.6	4404.5	4398.3	4579.7	5347.8	5990.5	5937.6
30°	6053.2	6183.6	6436.9	6029.3	5029.2	4454.8	4425.3	4627.1	5407.4	6212.5	6363.1
32.5°	6422.2	6526.7	6731.5	6232.8	5190.4	4552.7	4488.7	4753.8	5509.0	6400.0	6754.3
35°	6828.1	6938.2	7020.0	6426.5	5371.2	4693.5	4601.8	4954.9	5665.1	6590.7	7182.9
37.5°	7291.1	7400.6	7390.8	6603.6	5600.6	4926.6	4868.2	5273.4	5908.1	6779.5	7661.3
40°	7744.4	7856.3	7776.4	6797.3	5870.0	5310.9	5267.9	5751.8	6233.4	7021.2	8222.2
42.5°	8168.7	8289.8	8118.9	6980.6	6191.0	5795.5	5869.3	6368.1	6640.5	7318.8	8705.6
45°	8510.6	8634.2	8406.1	7158.9	6529.2	6383.4	6605.4	7050.7	7130.1	7570.3	9032.1
47.5°	8759.1	8876.0	8605.4	7337.2	6962.1	7102.3	7489.2	7766.5	7572.2	7788.7	9264.0
50°	8917.8	9008.8	8663.8	7560.5	7530.4	7941.2	8409.8	8545.1	7988.5	7985.4	9545.7
52.5°	9018.6	9059.9	8706.8	7793.6	8123.2	8854.5	9311.4	9353.8	8417.2	8201.9	9925.1
55°	9366.1	9399.3	9011.9	8075.9	8613.4	9654.5	10126.8	10087.4	8902.4	8625.7	10372.8
57.5°	9958.9	9993.9	9642.2	8481.7	9010.0	10148.9	10717.8	10788.5	9471.2	9220.9	10852.4
60°	10256.5	10321.7	10196.3	8995.9	9394.4	10465.0	11120.6	11346.2	10182.2	10005.7	11317.4
62.5°	9986.6	10081.3	10263.3	9566.0	9776.2	10639.1	11246.0	11546.2	10910.3	10920.2	11604.0
65°	9447.8	9523.5	9832.2	9878.3	9997.6	10617.6	10936.1	11267.0	11356.1	11760.1	11588.6
67.5°	8797.3	8825.5	9087.5	9902.9	9676.6	9970.6	10005.0	10249.8	11003.7	12057.9	11123.1
70°	7860.6	7876.0	8104.7	9079.5	8315.7	8380.3	8329.2	8379.1	9460.1	11332.7	9947.8
72.5°	6326.2	6365.0	6690.3	7540.2	6058.1	5871.8	6272.8	6250.6	7285.6	9574.5	7388.3
75°	4657.8	4724.8	5216.2	6073.5	4252.0	3846.1	4138.8	4216.9	5179.3	7406.2	4620.3
77.5°	3261.3	3311.0	3787.0	4464.7	3077.4	2750.2	2644.4	2737.3	3418.7	5357.7	2327.7
80°	1878.7	1897.2	2201.0	2578.0	2073.7	2372.6	2149.4	2213.3	2048.5	2383.6	1001.1
82.5°	1229.4	1232.4	1351.1	1534.4	1291.4	1500.5	1110.7	1420.0	1260.1	957.5	325.9
85°	664.2	667.8	783.5	1089.2	731.2	413.2	242.9	498.8	779.1	219.6	89.1
87.5°	73.2	67.1	236.1	396.0	203.0	37.5	12.9	56.0	124.8	14.2	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°	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3
2.5°	4657.2	4606.1	4478.9	4344.2	4235.9	4134.5	4032.4	3907.6	3811.0	3791.3	3759.4
5°	4557.6	4395.9	4128.9	3860.8	3645.0	3372.5	3199.7	3065.1	2933.4	2925.4	2899.0
7.5°	4209.5	3996.7	3621.0	3250.2	2946.4	2686.9	2424.8	2249.6	2111.8	2063.3	2034.3
10°	3875.0	3635.7	3166.5	2743.4	2472.2	2242.8	2058.3	1875.0	1709.0	1594.6	1543.0
12.5°	3641.2	3376.9	2859.7	2495.0	2300.6	2082.9	1857.9	1629.1	1437.8	1300.1	1215.8
15°	3550.9	3268.6	2756.9	2396.6	2156.7	1881.2	1593.4	1332.0	1119.9	995.0	919.3
17.5°	3658.5	3330.1	2748.9	2276.6	1941.4	1598.9	1281.0	972.3	772.4	677.7	629.1
20°	3931.5	3525.6	2745.8	2129.7	1685.6	1264.4	867.7	639.6	518.4	465.5	442.8
22.5°	4317.7	3775.4	2770.4	1984.6	1419.4	903.4	599.0	469.9	407.7	379.4	366.6
25°	4814.6	4125.8	2839.9	1852.9	1169.1	674.0	466.8	393.6	349.9	327.8	318.6
27.5°	5344.1	4529.3	2948.2	1738.5	965.5	537.5	399.7	337.0	305.6	290.3	281.7
30°	5780.8	4996.6	3057.6	1611.2	817.9	468.6	365.9	307.5	271.2	261.4	253.4
32.5°	6162.7	5350.3	3135.1	1496.3	721.4	416.3	330.9	274.9	250.3	231.2	222.6
35°	6558.1	5644.9	3132.7	1415.7	655.0	377.0	301.4	246.0	216.5	194.3	187.6
37.5°	6986.1	5977.6	3079.1	1346.8	626.0	345.6	284.8	230.7	201.1	179.0	170.4
40°	7487.3	6326.9	3024.5	1282.2	618.1	320.4	273.0	218.4	187.0	165.4	156.8
42.5°	7975.6	6641.7	2976.5	1234.3	583.6	319.8	262.6	209.1	175.9	155.0	145.1
45°	8366.1	6935.1	2967.3	1205.3	547.3	330.9	257.0	203.0	167.3	146.3	137.1
47.5°	8690.9	7253.6	3026.3	1185.0	512.9	301.9	270.6	198.6	159.3	139.0	128.6
50°	9077.0	7644.7	3165.3	1151.9	476.6	271.8	309.9	199.9	152.5	131.6	120.5
52.5°	9615.7	8186.0	3369.4	1095.9	426.8	244.2	305.0	201.1	145.1	123.6	112.5
55°	10219.6	8861.8	3589.0	1003.0	357.3	207.8	261.4	192.5	131.0	115.0	104.5
57.5°	10854.3	9475.0	3719.4	892.3	284.1	179.6	209.1	175.2	115.6	103.3	96.5
60°	10954.0	9708.0	3659.7	756.4	225.7	156.2	155.0	178.3	103.3	91.0	86.1
62.5°	10706.1	9415.2	3371.3	635.3	188.8	137.1	127.3	155.6	93.4	81.1	76.3
65°	10229.5	8623.8	2903.9	572.5	175.2	117.5	105.7	109.5	81.8	70.7	66.4
67.5°	9566.5	7567.2	2384.3	536.9	173.5	100.9	90.4	83.0	70.7	61.5	57.8
70°	8211.1	6304.2	1902.1	517.2	168.5	84.9	76.3	67.6	59.1	52.3	49.2
72.5°	6043.3	4467.1	1479.7	495.7	169.7	67.6	66.4	56.0	47.3	40.6	39.4
75°	3491.8	2552.2	970.4	401.6	161.7	52.3	55.3	39.4	33.2	28.3	28.3
77.5°	1861.0	1556.5	369.6	167.3	59.1	33.2	31.4	23.4	20.9	17.2	16.6
80°	811.2	685.1	111.3	46.8	32.6	17.8	11.6	10.4	9.2	7.4	6.8
82.5°	287.2	247.8	36.2	22.7	14.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	65.2	46.8	0.0	5.5	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°	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3
2.5°	3694.1	3680.6	3600.7	3603.8	3617.9	3638.2	3590.2	3612.4	3672.0	3729.2	3750.7
5°	2856.6	2859.7	2811.0	2841.2	2868.2	2886.7	2809.2	2810.5	2857.8	2922.4	2956.2
7.5°	2012.8	2007.9	2010.4	2082.3	2133.3	2096.4	2125.3	2025.1	2031.2	2077.4	2043.0
10°	1496.3	1428.6	1390.4	1444.6	1500.5	1480.2	1430.4	1397.9	1420.6	1471.7	1467.9
12.5°	1175.8	1078.6	1021.4	982.7	1028.9	990.7	989.5	961.2	930.4	936.0	1017.8
15°	884.3	813.6	746.0	683.8	682.6	669.7	603.9	530.1	524.0	527.6	570.1
17.5°	608.2	584.3	556.5	503.0	488.9	434.8	370.8	341.3	326.5	333.3	347.5
20°	427.4	418.2	421.2	392.4	372.1	320.4	282.9	271.2	268.8	275.6	282.3
22.5°	354.3	337.6	335.8	322.9	302.6	265.0	244.7	238.0	234.9	241.1	246.0
25°	309.9	293.3	286.5	278.6	257.0	231.2	218.9	212.8	209.7	213.4	216.5
27.5°	273.0	257.7	251.5	246.0	225.1	206.6	196.8	191.2	188.8	190.0	193.1
30°	245.4	231.9	223.9	217.1	199.3	186.3	177.7	172.1	169.7	169.7	172.8
32.5°	216.5	209.1	201.7	193.1	176.5	167.9	159.3	153.1	150.6	151.3	153.7
35°	180.2	177.7	179.6	171.6	157.4	150.1	141.4	134.7	132.8	133.5	135.9
37.5°	159.9	148.9	155.6	151.3	143.3	133.5	122.4	116.3	113.2	115.0	116.3
40°	147.0	133.5	128.6	132.8	131.6	115.6	105.7	99.6	97.2	97.8	99.0
42.5°	135.9	119.9	108.8	108.2	115.6	100.9	90.4	84.9	81.8	81.8	83.0
45°	125.5	108.2	94.7	84.2	97.2	85.5	75.6	70.7	67.1	67.1	67.6
47.5°	117.5	98.4	82.4	68.8	73.2	70.1	62.1	57.2	53.5	53.5	54.1
50°	110.1	88.6	71.4	57.8	54.8	57.8	50.4	44.9	42.5	41.8	43.0
52.5°	102.1	78.7	60.9	49.2	43.0	43.7	39.4	35.7	32.6	32.6	33.8
55°	94.1	70.7	52.9	41.8	35.7	32.6	31.4	28.9	26.5	26.5	27.7
57.5°	86.1	62.1	44.9	34.5	28.3	25.8	25.8	23.9	22.2	22.2	23.4
60°	78.7	53.5	36.9	28.3	22.2	21.5	22.2	20.3	19.1	19.1	20.3
62.5°	70.1	45.6	30.1	23.4	17.8	17.2	19.1	17.8	16.6	16.6	17.8
65°	59.6	38.8	23.9	17.8	13.5	13.5	16.0	14.7	13.5	13.5	14.7
67.5°	50.4	32.6	18.4	12.9	9.9	10.4	13.5	12.3	11.6	11.6	12.9
70°	41.8	25.2	12.9	8.0	5.5	8.0	10.4	10.4	10.4	10.4	11.6
72.5°	31.4	17.2	7.4	3.1	2.4	5.5	8.6	9.9	9.2	9.2	11.1
75°	20.3	9.9	2.4	0.0	0.0	3.1	6.8	8.0	8.0	7.4	9.2
77.5°	11.6	3.1	0.0	0.0	0.0	0.0	4.3	3.7	3.1	2.4	4.3
80°	3.1	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°	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3	4355.3
2.5°	3837.4	3910.0	4012.1	4120.3	4287.0	4419.2	4548.9	4660.3	4703.3	4721.2
5°	3037.4	3143.8	3293.2	3485.1	3785.8	4056.3	4330.7	4606.8	4726.7	4756.9
7.5°	2179.4	2315.4	2505.4	2745.8	3098.2	3448.8	3831.9	4237.1	4422.9	4469.7
10°	1613.1	1779.2	1996.9	2250.2	2586.6	2947.0	3364.6	3827.6	4039.7	4101.9
12.5°	1144.5	1368.9	1660.4	1968.5	2260.0	2581.7	3004.1	3514.5	3737.2	3804.3
15°	672.2	889.3	1234.3	1646.9	2020.2	2346.1	2775.4	3354.0	3599.4	3667.1
17.5°	385.6	493.8	754.6	1214.6	1721.3	2172.7	2703.4	3394.1	3683.1	3745.8
20°	294.6	329.0	434.8	782.2	1372.0	2002.4	2703.4	3620.4	3976.4	4068.7
22.5°	257.7	282.9	325.9	466.8	1009.8	1819.7	2734.8	3947.5	4413.0	4515.1
25°	228.8	251.5	288.4	351.2	688.8	1602.6	2809.2	4349.1	4927.1	5059.4
27.5°	204.8	226.3	259.5	307.5	471.1	1340.7	2909.4	4820.2	5494.2	5600.0
30°	183.2	203.5	233.7	267.5	363.5	1043.6	2994.9	5264.2	5939.5	6053.2
32.5°	162.9	181.4	208.5	233.7	297.6	771.8	3004.1	5615.9	6309.0	6422.2
35°	143.9	160.5	185.1	204.8	246.6	609.4	2860.9	5921.0	6678.6	6828.1
37.5°	125.5	141.4	162.9	177.7	217.1	496.9	2642.0	6261.0	7152.8	7291.1
40°	108.2	122.4	144.5	154.4	205.4	381.9	2404.0	6617.7	7617.7	7744.4
42.5°	92.2	105.7	127.3	146.3	180.2	285.3	2146.8	6952.3	8035.9	8168.7
45°	76.9	91.0	112.5	155.0	149.4	213.4	1871.9	7174.3	8366.1	8510.6
47.5°	62.1	78.1	107.6	147.6	119.3	156.8	1654.2	7384.7	8616.4	8759.1
50°	49.8	65.8	121.2	131.6	97.8	119.9	1563.2	7572.8	8780.6	8917.8
52.5°	40.6	55.3	114.4	100.9	81.8	99.0	1612.5	7877.8	8932.5	9018.6
55°	33.8	43.7	68.8	70.1	69.5	84.2	1673.3	8315.7	9325.4	9366.1
57.5°	29.5	35.0	48.0	54.1	58.4	75.0	1674.5	8944.2	9933.7	9958.9
60°	25.2	30.7	40.0	43.7	50.4	67.1	1613.7	9163.7	10173.0	10256.5
62.5°	22.2	27.0	33.2	36.2	42.5	60.3	1471.0	8845.8	9844.5	9986.6
65°	19.7	24.6	27.7	30.7	37.5	54.1	1236.1	8209.9	9299.6	9447.8
67.5°	17.2	21.5	24.6	27.7	33.8	48.0	910.1	7471.3	8674.2	8797.3
70°	15.4	19.1	22.2	24.6	29.5	40.6	552.2	6339.7	7809.5	7860.6
72.5°	14.7	17.2	20.3	22.2	25.8	35.7	279.8	4659.0	6243.2	6326.2
75°	12.9	15.4	18.4	19.7	22.7	30.7	113.7	3060.1	4524.3	4657.8
77.5°	10.4	14.2	16.6	17.8	19.7	25.2	57.8	1955.6	3175.1	3261.3
80°	3.7	10.4	14.2	14.7	16.6	18.4	38.1	1070.6	1841.9	1878.7
82.5°	0.0	6.8	11.1	10.4	11.6	14.2	24.6	509.2	1215.8	1229.4
85°	0.0	3.1	8.6	6.8	4.9	9.9	8.6	111.3	637.7	664.2
87.5°	0.0	0.0	0.7	3.1	2.4	3.7	1.2	0.7	57.8	73.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)