

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: P323429

Luminaire Tested: **GAN-SA5A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16641 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

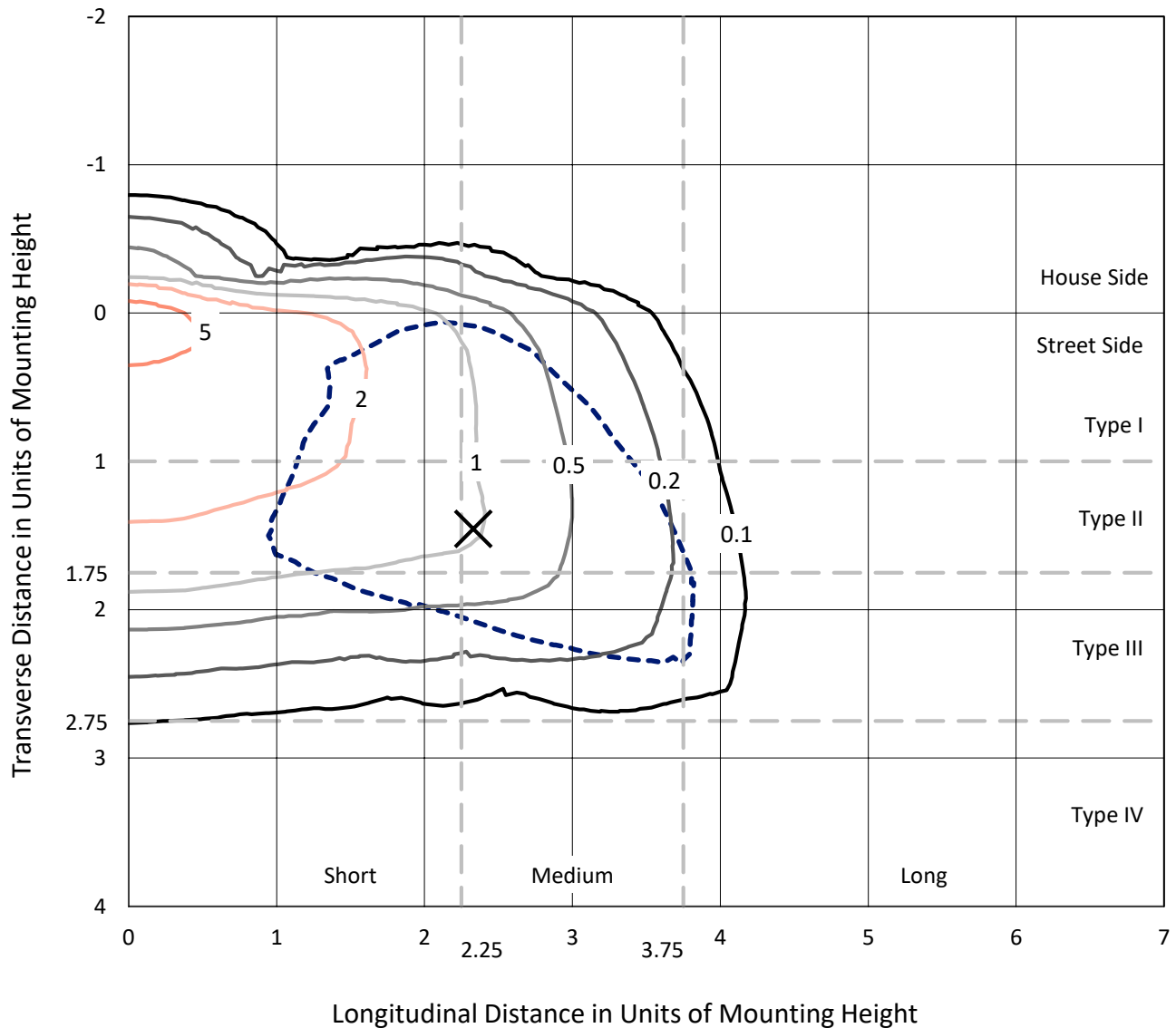
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

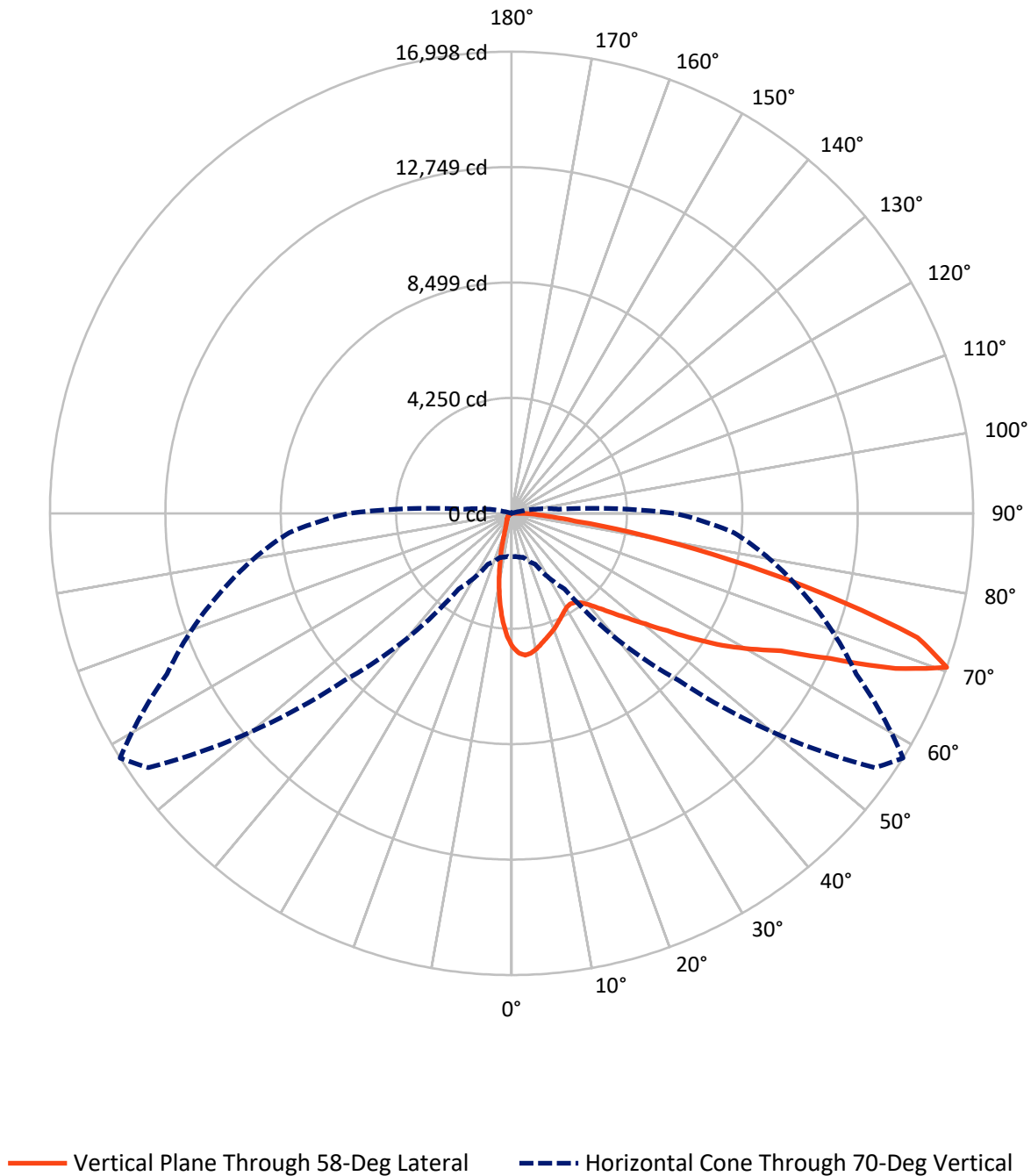
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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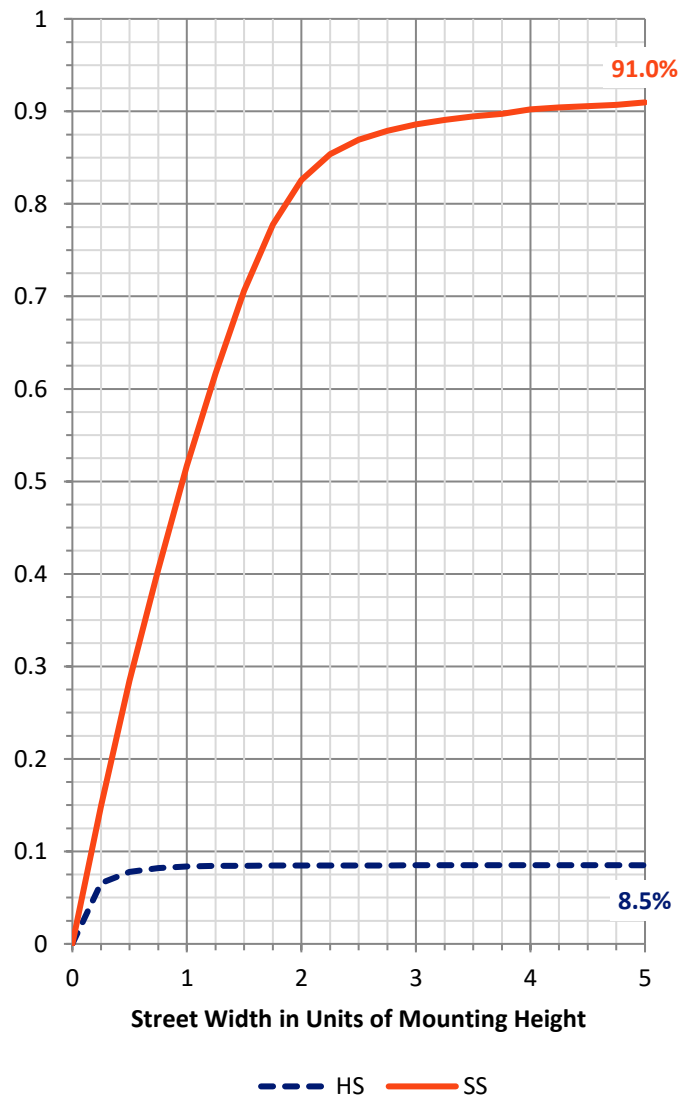
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.1	0.0	1424.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	15216.9	0.0	15216.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	16641.0	0.0	16641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	2.4
10°-20°	843.7	5.1
20°-30°	1109.1	6.7
30°-40°	1468.9	8.8
40°-50°	2195.5	13.2
50°-60°	3517.2	21.1
60°-70°	4433.4	26.6
70°-80°	2391.3	14.4
80°-90°	279.9	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°	16641.0	100.0
0°-180°	16641.0	100.0

Coefficient of Utilization



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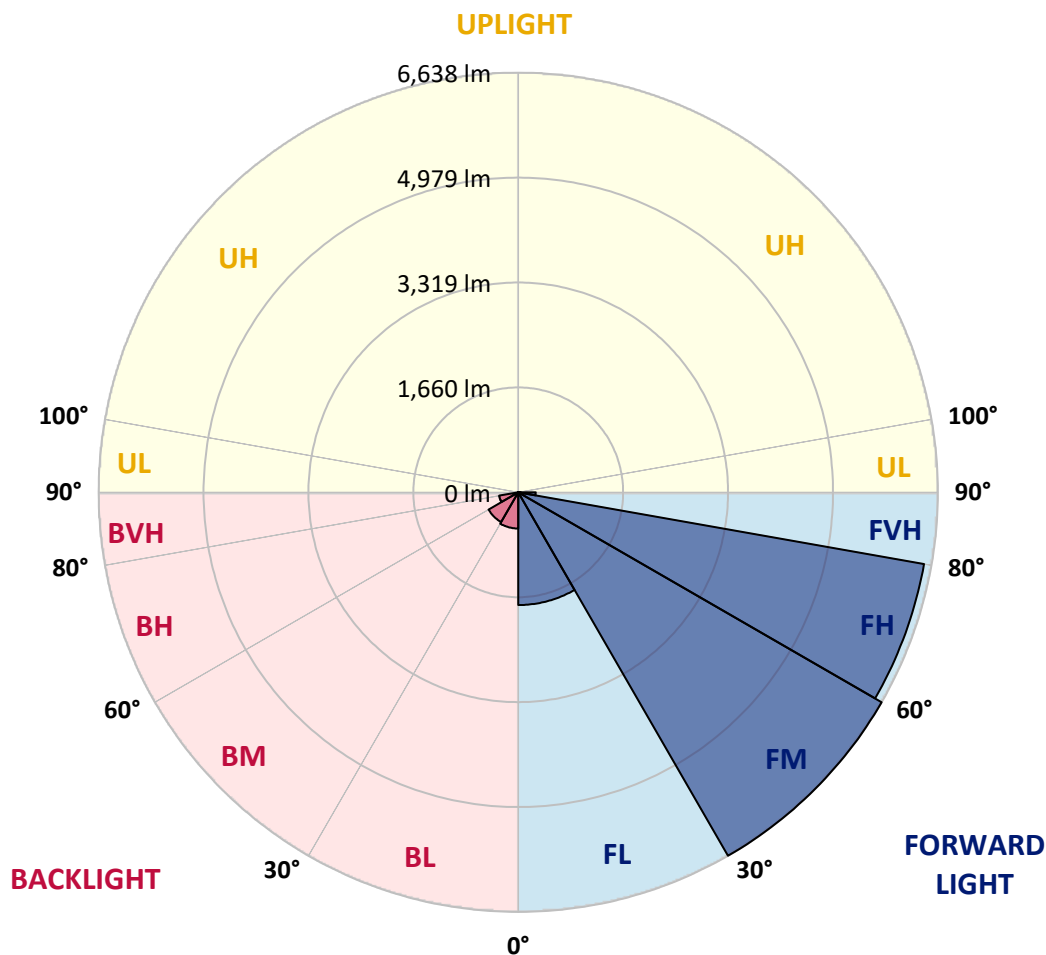
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1782.6	10.7			
FM	(30°-60°)	6638.4	39.9			
FH	(60°-80°)	6518.5	39.2			G3/7500
FVH	(80°-90°)	277.5	1.7			G3/500
BL	(0°-30°)	572.1	3.4	B2/1000		
BM	(30°-60°)	543.3	3.3	B1/1000		
BH	(60°-80°)	306.3	1.8	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			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°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7
2.5°	5323.2	5310.1	5305.2	5296.9	5265.1	5234.0	5172.4	5155.1	5116.3	5024.3	4926.7
5°	5327.4	5326.7	5341.2	5337.8	5326.7	5312.2	5267.9	5245.0	5179.3	5047.8	4869.3
7.5°	5070.7	5083.8	5116.3	5142.6	5173.1	5212.5	5218.1	5195.9	5141.9	5000.1	4763.4
10°	4726.1	4746.8	4792.5	4844.4	4924.0	5002.9	5073.4	5070.7	5052.0	4912.2	4636.1
12.5°	4380.8	4405.0	4457.6	4534.4	4647.2	4775.9	4901.8	4919.1	4950.3	4833.3	4518.5
15°	4078.4	4099.2	4151.1	4245.2	4384.9	4557.9	4742.7	4774.5	4854.8	4771.7	4420.2
17.5°	3821.7	3834.8	3872.9	3977.4	4139.3	4349.0	4589.1	4651.3	4771.1	4723.3	4335.1
20°	3642.5	3644.5	3669.5	3742.8	3904.7	4139.3	4429.9	4519.2	4682.5	4681.8	4247.2
22.5°	3553.9	3547.0	3551.8	3594.0	3713.0	3939.3	4270.8	4376.6	4602.9	4646.5	4158.0
25°	3537.3	3531.8	3517.9	3523.5	3595.4	3764.3	4110.2	4232.7	4533.0	4625.1	4080.5
27.5°	3589.2	3594.7	3571.2	3546.3	3551.8	3650.8	3967.7	4109.5	4476.3	4625.1	4025.8
30°	3693.7	3696.4	3679.1	3646.6	3603.0	3618.9	3868.7	4010.6	4447.9	4656.9	3991.2
32.5°	3809.2	3824.5	3822.4	3796.1	3733.8	3669.5	3845.2	3974.6	4445.8	4727.5	3987.8
35°	3952.5	3969.8	3998.8	3993.3	3928.2	3822.4	3925.5	4027.2	4486.7	4843.7	4025.1
37.5°	4104.7	4131.0	4193.3	4223.0	4180.8	4061.1	4105.4	4178.0	4596.0	5031.9	4119.9
40°	4252.1	4281.8	4395.3	4512.3	4480.4	4357.3	4378.0	4436.1	4790.4	5302.5	4299.8
42.5°	4396.7	4441.0	4607.8	4800.1	4838.2	4739.9	4751.0	4797.3	5079.0	5674.8	4593.9
45°	4569.7	4619.5	4866.5	5103.9	5205.6	5162.7	5209.8	5240.2	5456.1	6166.7	4990.4
47.5°	4823.6	4881.1	5184.2	5454.7	5633.2	5660.9	5755.7	5775.8	5932.9	6739.7	5507.3
50°	5319.1	5335.0	5609.0	5854.7	6112.1	6278.1	6386.1	6401.3	6509.9	7365.9	6152.9
52.5°	5942.5	5952.9	6107.9	6272.6	6565.3	6904.4	7156.9	7178.4	7201.2	7976.2	6790.2
55°	6561.8	6560.5	6662.9	6759.7	7094.6	7587.3	8135.4	8148.5	7984.5	8555.4	7277.3
57.5°	6948.6	6986.0	7141.7	7266.3	7734.0	8365.8	9126.2	9174.7	8807.2	8984.4	7758.9
60°	6825.5	6843.5	7188.8	7649.6	8530.5	9472.2	10128.9	10141.3	9425.9	9412.7	8367.9
62.5°	5815.2	5824.9	6367.4	7317.5	8933.9	10907.3	11338.4	11135.7	10137.2	10007.1	9096.5
65°	3985.7	4048.6	4501.9	5676.1	8192.8	11807.6	13210.9	12875.3	11221.5	10863.7	9755.2
67.5°	2347.1	2334.0	2558.2	3423.1	6017.3	11209.7	15579.4	15245.9	12700.2	11437.4	9562.2
70°	1603.3	1594.3	1680.1	2072.4	3396.8	8695.8	16324.7	16998.0	14005.9	11051.3	8229.5
72.5°	1144.5	1149.3	1276.0	1610.2	2132.6	5066.5	14038.5	15632.0	13597.0	9634.1	6255.3
75°	777.1	790.2	971.5	1320.9	1869.7	2577.5	9962.1	11883.0	11072.0	7001.9	3595.4
77.5°	417.9	432.5	646.3	1064.2	1690.5	1790.8	6408.2	8178.3	6954.9	3147.7	1042.1
80°	174.4	182.7	302.4	773.6	1460.7	1572.8	3770.5	4959.3	2963.7	620.7	232.5
82.5°	75.4	79.6	125.9	461.5	1091.9	1327.9	1996.3	2385.9	898.2	136.3	116.9
85°	14.5	15.2	51.9	244.3	696.8	749.4	1294.0	1268.4	403.4	58.8	85.1
87.5°	0.0	0.0	12.5	76.8	204.8	408.3	789.5	779.8	137.0	28.4	31.8
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°	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7	4915.7
2.5°	4876.9	4829.2	4728.8	4605.0	4510.2	4405.7	4322.7	4217.5	4171.8	4173.9	4149.0
5°	4767.6	4669.3	4447.2	4167.0	3951.1	3728.3	3536.6	3345.6	3232.8	3196.2	3161.6
7.5°	4611.2	4455.5	4101.2	3669.5	3304.1	2947.1	2636.4	2363.0	2190.0	2105.6	2074.5
10°	4434.8	4216.1	3703.4	3134.6	2612.8	2129.8	1727.1	1377.0	1237.2	1142.4	1118.2
12.5°	4279.8	3983.6	3314.5	2585.8	1966.5	1383.9	999.9	781.9	687.1	649.7	643.5
15°	4133.8	3766.3	2940.1	2089.0	1361.8	851.8	635.9	561.9	539.7	533.5	533.5
17.5°	3996.1	3559.4	2574.1	1599.8	900.9	597.2	526.6	510.0	503.1	502.4	503.1
20°	3852.1	3352.5	2214.3	1172.2	629.0	505.8	486.4	477.5	475.4	475.4	475.4
22.5°	3714.4	3145.6	1864.1	837.3	504.4	461.5	451.8	445.6	443.5	442.9	441.5
25°	3582.3	2949.1	1522.3	591.6	442.9	422.8	414.5	406.2	400.0	396.5	394.4
27.5°	3473.6	2774.1	1204.0	474.7	400.0	382.7	372.3	359.8	344.6	337.7	334.9
30°	3387.1	2614.2	927.9	400.6	359.8	342.5	326.6	305.2	283.0	271.2	270.6
32.5°	3319.3	2457.1	704.4	354.3	323.8	302.4	279.6	252.6	227.0	213.8	213.1
35°	3286.1	2318.8	538.3	320.4	292.0	265.0	236.6	206.9	182.0	169.5	168.1
37.5°	3308.3	2201.8	420.0	292.0	265.0	233.9	200.7	169.5	147.4	136.3	135.6
40°	3389.2	2127.1	341.1	267.8	242.2	204.1	168.1	139.1	120.4	111.4	110.7
42.5°	3561.5	2099.4	291.3	247.7	220.0	176.4	139.8	114.9	97.6	91.3	90.0
45°	3849.4	2140.2	257.4	228.3	197.2	150.2	115.6	94.1	78.9	74.0	73.3
47.5°	4232.7	2247.5	233.2	209.7	176.4	126.6	96.2	76.1	64.4	59.5	58.8
50°	4726.8	2417.7	213.1	191.0	157.1	107.3	79.6	60.2	49.8	46.4	46.4
52.5°	5264.4	2620.4	195.1	173.7	137.7	89.3	64.4	46.4	39.4	35.3	35.3
55°	5708.7	2797.6	175.8	160.5	114.2	74.0	49.1	35.3	29.1	27.0	27.0
57.5°	6152.2	2986.5	153.6	137.7	91.3	60.2	37.4	26.3	21.5	20.1	20.1
60°	6727.2	3217.6	132.2	112.1	72.0	45.7	27.7	18.7	15.9	15.2	15.2
62.5°	7359.7	3353.2	112.8	90.0	56.0	33.9	20.1	12.5	11.8	11.8	11.1
65°	7746.5	3161.6	94.8	72.0	43.6	25.6	13.1	9.0	10.4	9.7	8.3
67.5°	7253.1	2475.1	77.5	56.0	33.9	19.4	8.3	6.2	11.1	9.0	6.9
70°	6005.5	1732.7	60.2	39.4	27.0	16.6	5.5	4.2	11.8	9.0	5.5
72.5°	4494.3	1159.7	47.7	26.3	20.1	14.5	4.8	2.1	10.4	7.6	4.8
75°	2455.8	467.1	38.1	16.6	12.5	10.4	3.5	1.4	6.9	5.5	3.5
77.5°	646.3	123.2	27.7	11.1	6.9	4.2	2.1	0.7	3.5	2.8	1.4
80°	164.7	47.7	18.0	7.6	4.8	2.1	0.0	0.0	0.7	0.0	0.0
82.5°	87.9	20.1	11.1	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.4	13.1	6.2	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.6	4.2	2.1	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

(END OF REPORT)