

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: P321512

Luminaire Tested: **GAN-SA8A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24022 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

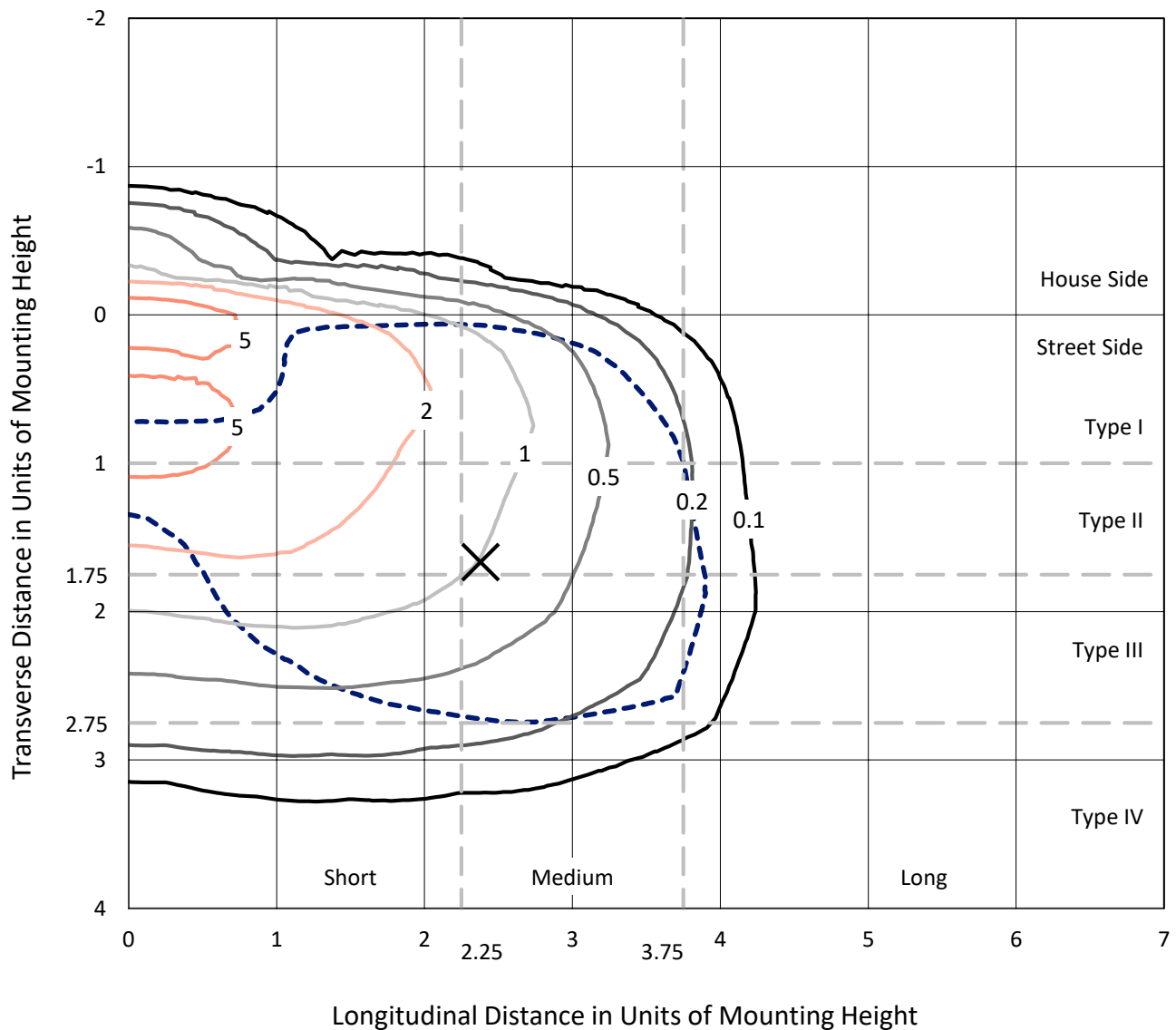
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

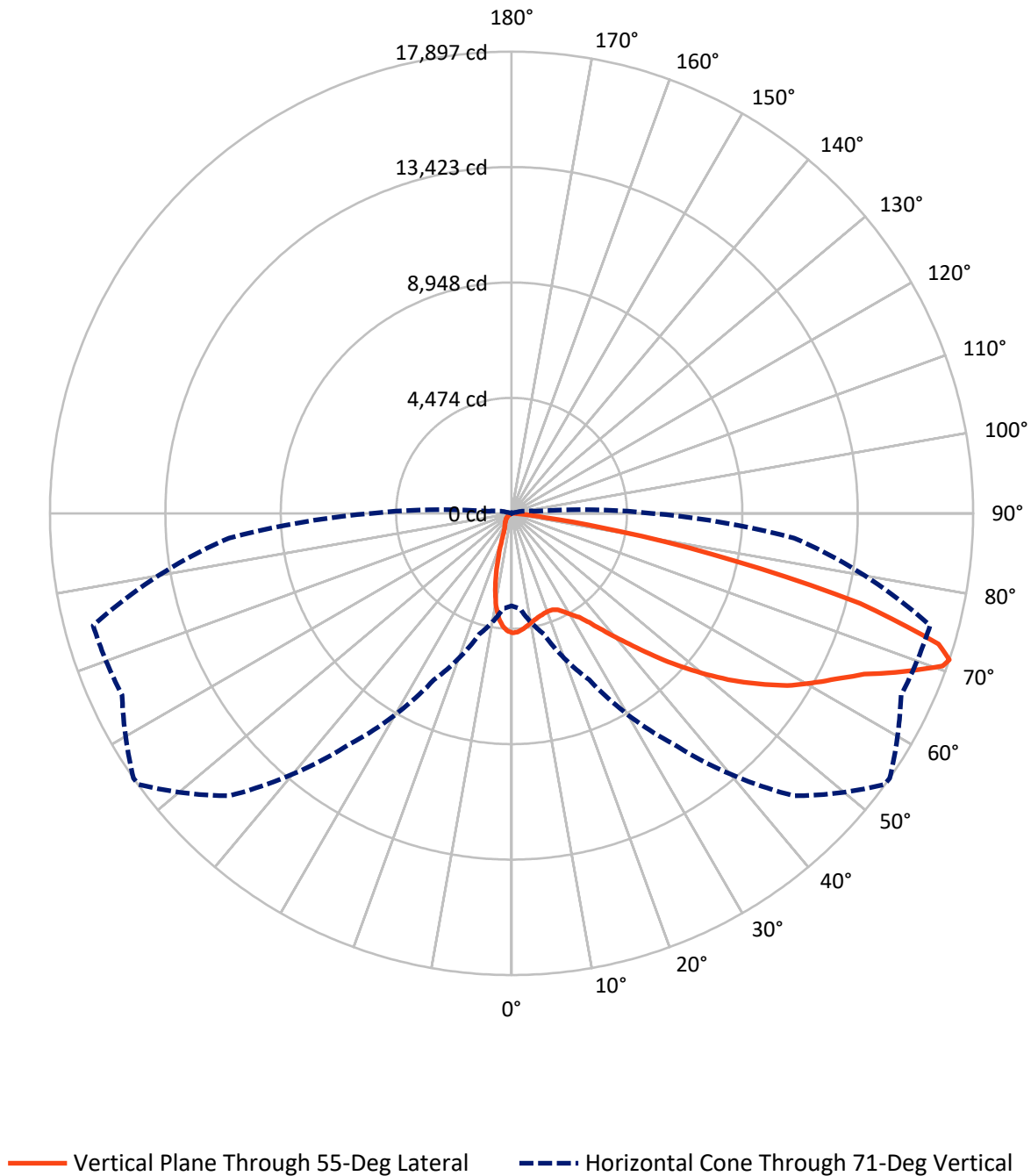
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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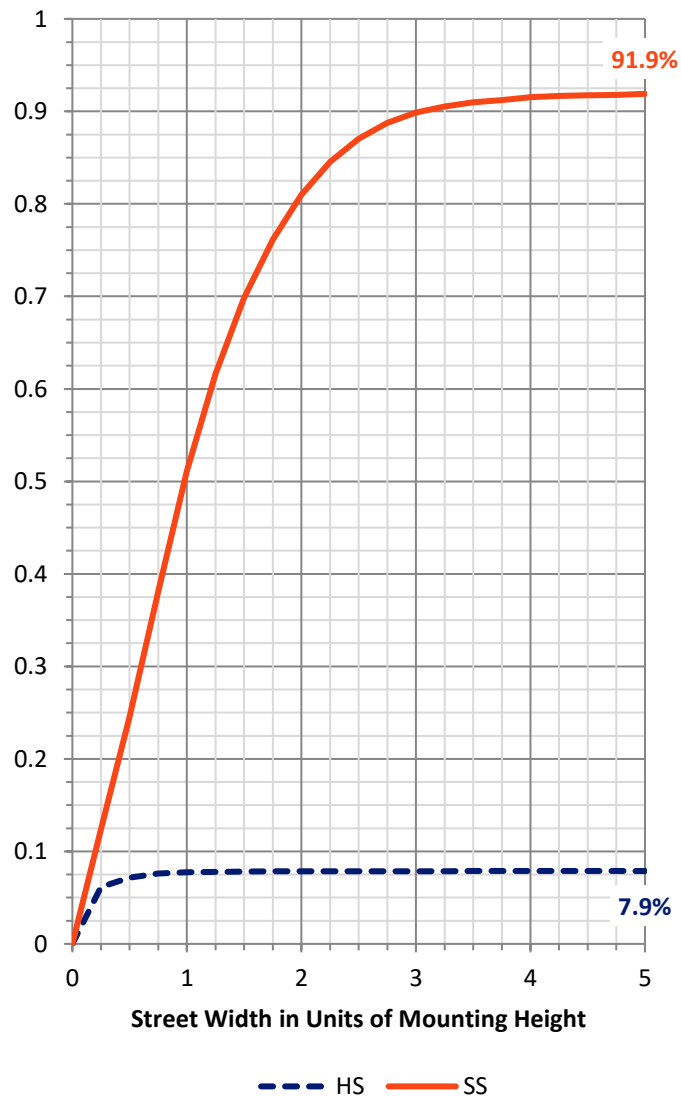
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.9	0.0	1901.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	22120.1	0.0	22120.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	24022.0	0.0	24022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.6
10°-20°	891.7	3.7
20°-30°	1433.1	6.0
30°-40°	2434.9	10.1
40°-50°	3779.2	15.7
50°-60°	5081.0	21.2
60°-70°	6215.8	25.9
70°-80°	3634.2	15.1
80°-90°	157.1	0.7
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°	24022.0	100.0
0°-180°	24022.0	100.0

Coefficient of Utilization



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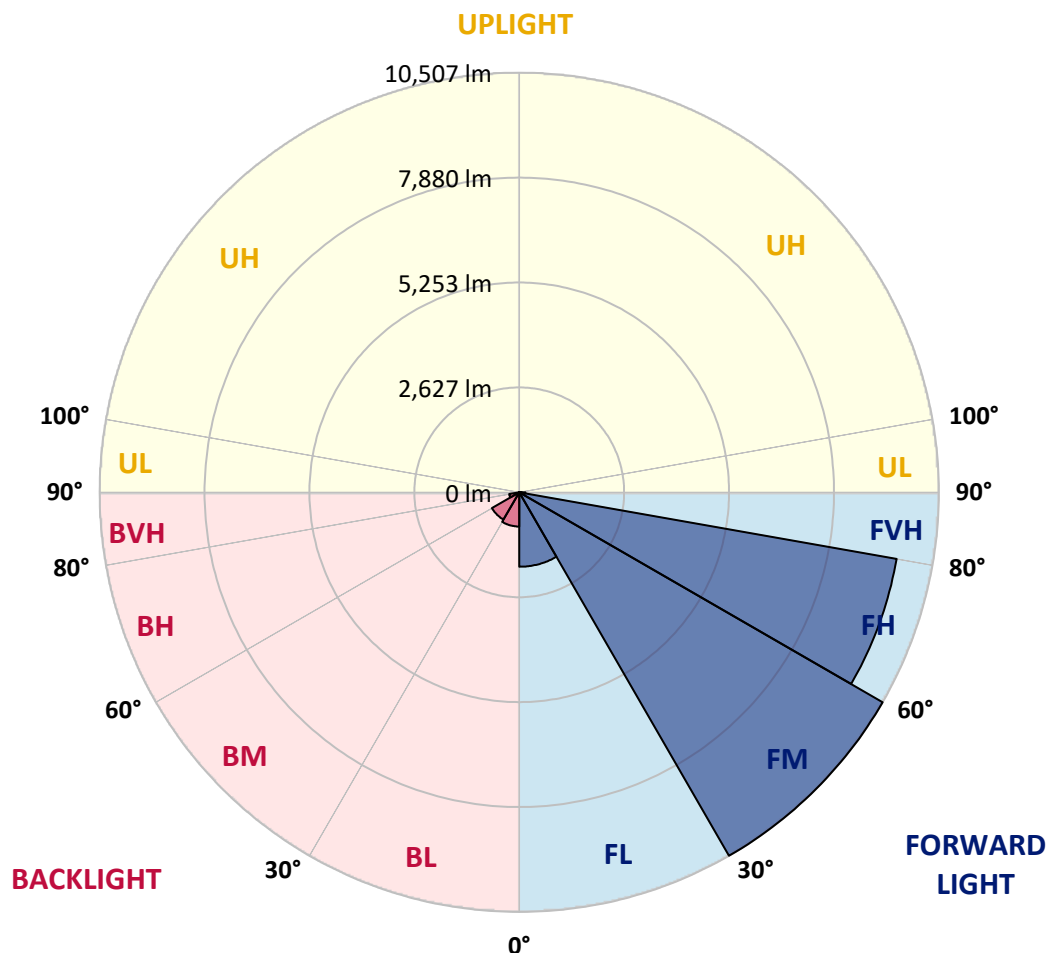
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.8	7.8			
FM	(30°-60°)	10506.5	43.7			
FH	(60°-80°)	9595.2	39.9			G4/12000
FVH	(80°-90°)	154.6	0.6			G2/225
BL	(0°-30°)	856.0	3.6	B2/1000		
BM	(30°-60°)	788.6	3.3	B1/1000		
BH	(60°-80°)	254.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7
2.5°	4496.8	4502.2	4521.6	4530.3	4550.8	4585.3	4602.5	4603.6	4631.7	4642.4	4651.1
5°	4178.6	4211.0	4243.3	4277.9	4340.4	4423.5	4505.5	4513.0	4603.6	4670.5	4706.1
7.5°	3904.7	3933.8	3972.6	4027.6	4116.1	4246.6	4383.6	4399.7	4571.2	4723.3	4803.2
10°	3623.1	3646.9	3702.9	3783.8	3905.7	4080.5	4264.9	4291.9	4542.1	4794.5	4934.7
12.5°	3322.2	3336.2	3404.2	3520.7	3699.7	3921.9	4164.6	4200.2	4523.8	4876.5	5090.1
15°	3093.5	3100.0	3164.7	3285.5	3490.5	3779.5	4086.9	4130.1	4528.1	4974.7	5259.4
17.5°	3035.3	3038.5	3073.0	3156.1	3337.3	3652.3	4025.5	4078.3	4541.0	5070.7	5429.8
20°	3271.5	3248.8	3213.2	3200.3	3278.0	3575.7	3988.8	4048.1	4558.3	5155.9	5583.0
22.5°	3919.8	3852.9	3705.1	3507.7	3388.0	3581.1	3998.5	4057.8	4613.3	5260.5	5759.9
25°	4881.9	4789.1	4537.8	4149.5	3776.3	3736.4	4079.4	4139.8	4720.1	5385.6	5929.2
27.5°	5976.7	5885.0	5577.6	5023.2	4386.8	4043.8	4264.9	4321.0	4878.7	5496.7	6058.7
30°	7025.1	6999.2	6636.8	6006.9	5154.8	4542.1	4504.4	4551.8	4996.2	5563.6	6161.2
32.5°	7913.9	7872.9	7581.7	6969.0	6033.9	5140.8	4785.9	4799.9	5084.7	5649.9	6294.9
35°	8738.0	8687.3	8431.7	7852.4	6935.6	5872.1	5219.5	5199.0	5277.8	5823.5	6489.1
37.5°	9457.5	9503.8	9220.2	8669.0	7744.6	6632.5	5804.1	5742.6	5579.8	6106.1	6770.6
40°	10059.3	10059.3	9911.6	9452.1	8618.3	7418.8	6465.3	6384.4	6033.9	6541.9	7127.6
42.5°	10276.1	10322.5	10377.5	10117.6	9400.3	8236.4	7202.0	7117.9	6673.5	7160.0	7578.5
45°	10289.1	10362.4	10644.0	10642.9	10106.8	9048.7	8032.6	7992.7	7493.3	7953.8	8137.2
47.5°	10106.8	10198.5	10662.3	10925.5	10666.6	9804.8	8940.8	8891.2	8456.5	8926.8	8721.8
50°	9825.3	9926.7	10466.0	11036.6	11047.4	10462.7	9897.5	9823.1	9516.8	10038.8	9325.9
52.5°	9321.5	9517.9	10290.2	11062.5	11297.6	11031.2	10807.9	10775.5	10703.3	11109.9	9806.9
55°	8244.0	8461.9	9849.0	11071.1	11529.5	11534.9	11661.1	11669.7	11815.3	12110.9	10165.0
57.5°	7734.9	7857.8	9078.9	11112.1	11873.6	12106.6	12530.5	12597.4	12822.8	13061.2	10573.8
60°	7414.5	7560.1	8699.2	11056.0	12414.0	12856.2	13336.2	13358.9	13600.5	14041.6	11127.2
62.5°	7158.9	7302.3	8459.7	10840.3	13021.3	13758.0	14123.6	14125.8	14307.0	15209.8	11756.0
65°	6527.9	6648.7	7975.4	10597.6	13422.5	14650.0	15038.3	15024.3	15172.1	16441.6	12486.3
67.5°	5615.4	5708.1	6986.3	9677.5	13271.5	15461.1	16419.0	16372.6	16193.5	17506.2	12773.2
70°	4341.5	4374.9	5506.4	8064.9	11856.3	15772.9	17753.2	17729.5	16820.2	17315.3	11721.5
71°	3588.6	3698.6	4852.8	7117.9	10908.2	15484.9	17882.7	17896.7	16662.7	16795.4	10997.7
72.5°	2083.9	2177.8	3517.4	5466.5	9261.1	14283.3	17211.7	17313.1	15927.1	15276.7	9393.8
75°	446.6	477.8	1304.1	2645.9	5094.4	10010.8	13585.4	13946.7	12981.3	10392.6	5661.7
77.5°	310.6	335.5	558.7	1200.5	1683.7	4946.6	8439.2	8846.9	7755.4	3905.7	1812.1
80°	245.9	274.0	435.8	593.2	455.2	1595.3	3953.2	4202.4	2586.6	871.5	305.3
82.5°	137.0	162.9	339.8	320.4	174.7	303.1	1106.7	1251.2	517.7	175.8	72.3
85°	39.9	48.5	219.0	233.0	74.4	58.2	188.8	234.1	98.2	46.4	32.4
87.5°	0.0	0.0	105.7	89.5	21.6	8.6	17.3	19.4	19.4	19.4	21.6
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°	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7
2.5°	4651.1	4658.6	4631.7	4596.1	4558.3	4511.9	4463.4	4425.6	4424.6	4406.2	4387.9
5°	4708.2	4703.9	4629.5	4516.2	4382.5	4243.3	4110.7	3960.7	3911.1	3849.6	3829.1
7.5°	4813.9	4783.7	4626.3	4378.2	4084.8	3793.6	3492.6	3189.5	3060.1	2943.6	2923.1
10°	4946.6	4889.4	4605.8	4171.1	3632.8	3095.7	2641.6	2229.5	2048.3	1909.2	1902.7
12.5°	5084.7	4997.3	4548.6	3858.3	3040.7	2285.6	1762.5	1356.9	1205.9	1108.8	1117.5
15°	5229.2	5098.7	4425.6	3436.5	2366.5	1551.1	1082.9	844.6	784.2	759.4	765.8
17.5°	5377.0	5168.8	4254.1	2928.5	1701.0	1001.0	749.6	682.8	682.8	688.2	690.3
20°	5505.3	5206.6	4001.7	2359.0	1153.1	729.2	655.8	646.1	651.5	660.1	661.2
22.5°	5632.6	5208.7	3672.7	1781.9	806.8	638.6	624.5	620.2	623.4	633.2	634.2
25°	5736.2	5182.8	3260.7	1267.4	643.9	601.9	595.4	593.2	595.4	607.3	607.3
27.5°	5778.2	5089.0	2758.1	891.0	577.1	560.9	558.7	560.9	564.1	572.8	573.8
30°	5782.6	4925.0	2210.1	645.0	523.1	505.9	510.2	517.7	514.5	512.4	514.5
32.5°	5793.3	4735.2	1676.2	530.7	477.8	450.9	445.5	445.5	432.5	425.0	420.7
35°	5828.9	4511.9	1215.6	476.8	431.5	400.2	379.7	355.9	331.1	318.2	315.0
37.5°	5885.0	4277.9	870.5	441.2	390.5	354.9	316.0	274.0	238.4	228.7	228.7
40°	5987.5	4036.2	643.9	413.1	358.1	313.9	255.6	200.6	168.3	162.9	162.9
42.5°	6149.3	3781.7	513.4	388.3	330.1	271.8	195.2	145.6	121.9	118.6	117.6
45°	6317.6	3501.2	448.7	364.6	299.9	223.3	144.5	107.9	93.8	90.6	90.6
47.5°	6485.8	3202.5	417.4	341.9	270.7	173.7	107.9	85.2	78.7	78.7	79.8
50°	6628.2	2890.7	394.8	317.1	233.0	131.6	85.2	72.3	70.1	74.4	75.5
52.5°	6663.8	2584.4	366.7	285.8	186.6	100.3	70.1	63.6	63.6	63.6	63.6
55°	6642.2	2347.1	330.1	247.0	138.1	79.8	60.4	56.1	55.0	55.0	55.0
57.5°	6715.6	2206.9	264.3	192.0	99.2	64.7	52.9	49.6	47.5	46.4	46.4
60°	6863.3	2115.2	188.8	138.1	74.4	53.9	45.3	42.1	38.8	36.7	36.7
62.5°	7059.7	2035.4	140.2	102.5	57.2	43.1	37.8	34.5	30.2	28.0	28.0
65°	7210.7	1893.0	106.8	76.6	43.1	34.5	29.1	28.0	21.6	19.4	18.3
67.5°	6979.8	1580.2	86.3	56.1	32.4	27.0	22.7	21.6	12.9	10.8	10.8
70°	5986.4	1100.2	69.0	41.0	23.7	21.6	18.3	14.0	9.7	8.6	8.6
71°	5428.8	919.0	62.6	34.5	20.5	20.5	17.3	11.9	8.6	7.6	7.6
72.5°	4509.8	652.6	52.9	27.0	18.3	21.6	18.3	10.8	8.6	7.6	6.5
75°	2617.8	272.9	36.7	18.3	14.0	25.9	23.7	9.7	6.5	5.4	5.4
77.5°	787.4	100.3	20.5	11.9	10.8	22.7	27.0	8.6	3.2	1.1	1.1
80°	143.5	43.1	12.9	7.6	7.6	14.0	20.5	4.3	0.0	0.0	0.0
82.5°	50.7	21.6	7.6	4.3	3.2	6.5	9.7	0.0	0.0	0.0	0.0
85°	29.1	15.1	4.3	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	19.4	4.3	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

(END OF REPORT)