

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: P323430

Luminaire Tested: **GAN-SA6A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323430
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-SA6A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19914 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

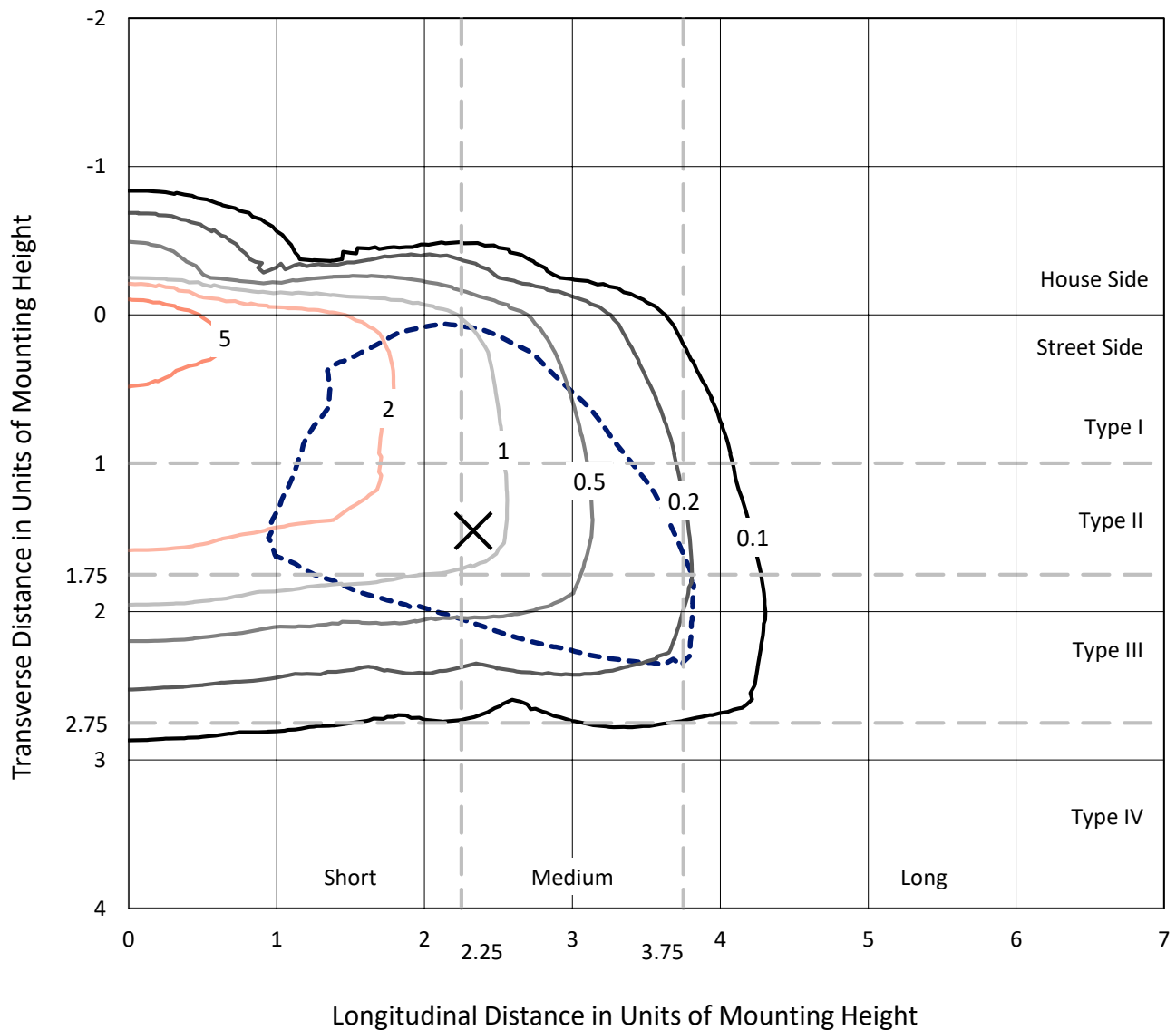
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

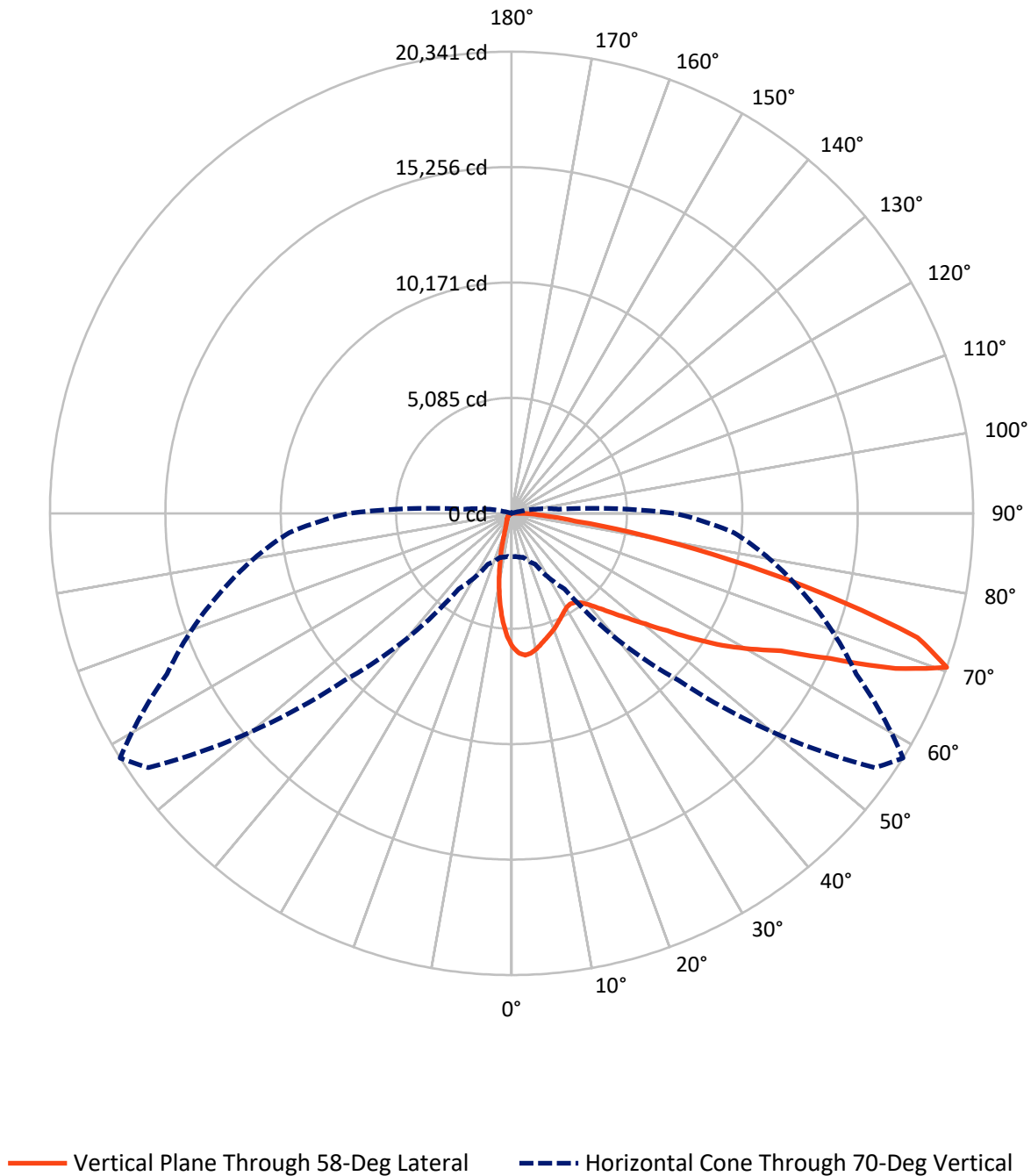
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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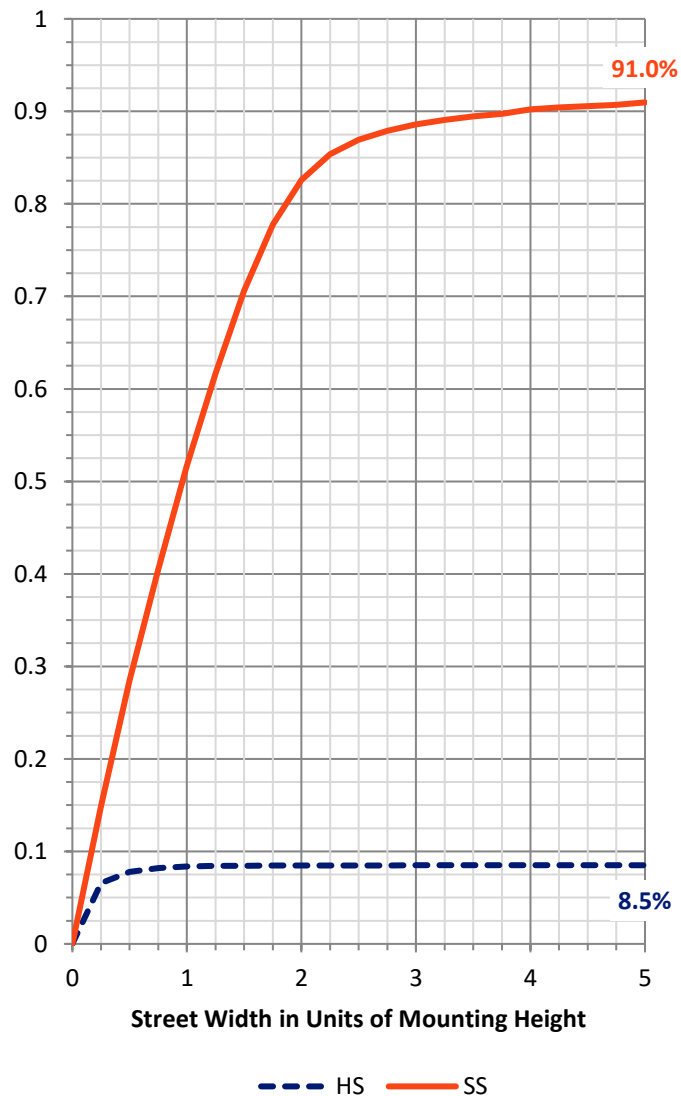
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.2	0.0	1704.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	18209.8	0.0	18209.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	19914.0	0.0	19914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.0	2.4
10°-20°	1009.6	5.1
20°-30°	1327.3	6.7
30°-40°	1757.8	8.8
40°-50°	2627.4	13.2
50°-60°	4208.9	21.1
60°-70°	5305.3	26.6
70°-80°	2861.7	14.4
80°-90°	335.0	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°	19914.0	100.0
0°-180°	19914.0	100.0

Coefficient of Utilization



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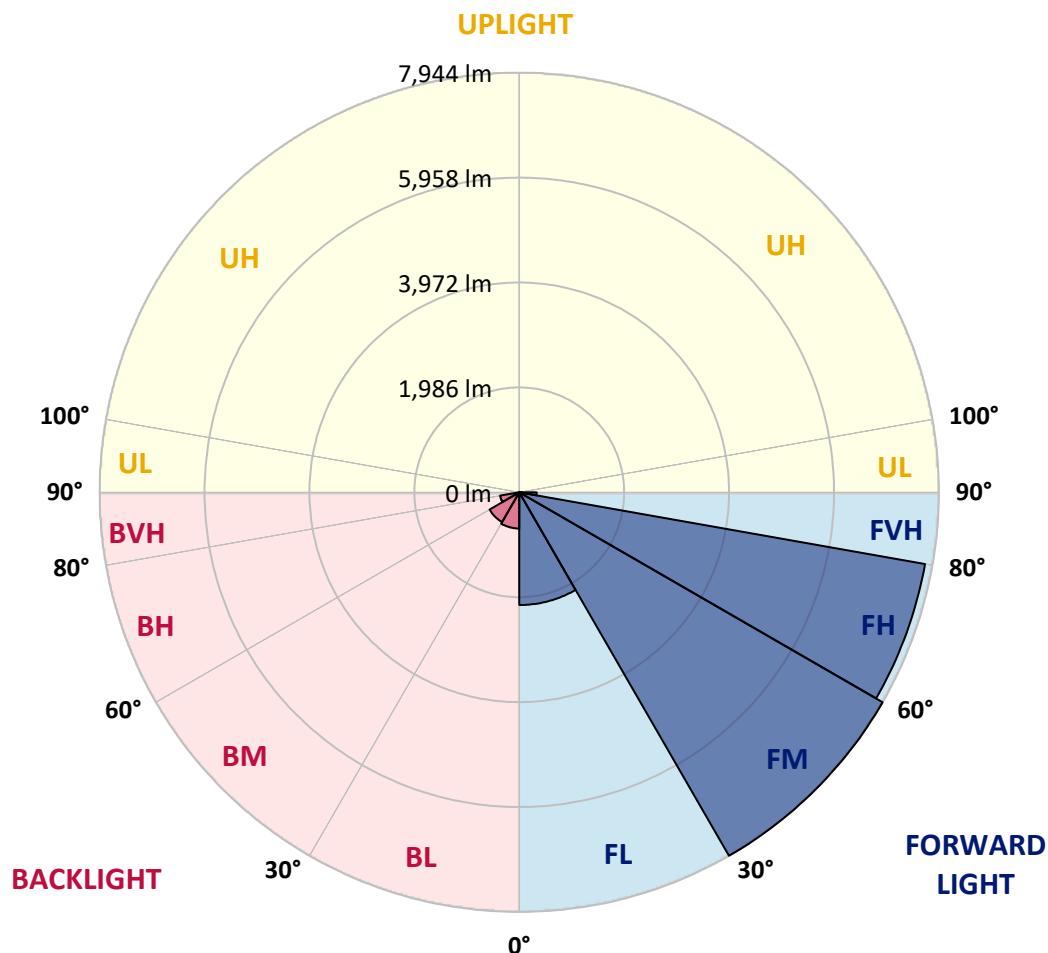
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2133.2	10.7			
FM	(30°-60°)	7944.0	39.9			
FH	(60°-80°)	7800.5	39.2			G4/12000
FVH	(80°-90°)	332.1	1.7			G3/500
BL	(0°-30°)	684.7	3.4	B2/1000		
BM	(30°-60°)	650.1	3.3	B1/1000		
BH	(60°-80°)	366.5	1.8	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	55°	58°	65°	75°	85°
0°	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5
2.5°	6370.2	6354.5	6348.7	6338.8	6300.7	6263.4	6189.7	6169.0	6122.6	6012.5	5895.8
5°	6375.2	6374.4	6391.8	6387.6	6374.4	6357.0	6304.0	6276.7	6198.0	6040.7	5827.0
7.5°	6068.0	6083.7	6122.6	6154.1	6190.5	6237.7	6244.4	6217.9	6153.3	5983.5	5700.3
10°	5655.6	5680.5	5735.1	5797.2	5892.4	5986.8	6071.3	6068.0	6045.6	5878.4	5548.0
12.5°	5242.4	5271.4	5334.3	5426.2	5561.2	5715.2	5865.9	5886.6	5923.9	5784.0	5407.2
15°	4880.6	4905.4	4967.5	5080.1	5247.4	5454.4	5675.5	5713.6	5809.6	5710.3	5289.6
17.5°	4573.3	4589.1	4634.6	4759.7	4953.4	5204.3	5491.7	5566.2	5709.4	5652.3	5187.8
20°	4358.9	4361.4	4391.2	4478.9	4672.7	4953.4	5301.2	5408.0	5603.4	5602.6	5082.6
22.5°	4252.9	4244.6	4250.4	4300.9	4443.3	4714.1	5110.8	5237.4	5508.2	5560.4	4975.8
25°	4233.0	4226.4	4209.8	4216.5	4302.6	4504.6	4918.6	5065.2	5424.6	5534.7	4883.0
27.5°	4295.1	4301.7	4273.6	4243.8	4250.4	4368.8	4748.1	4917.8	5356.7	5534.7	4817.6
30°	4420.2	4423.5	4402.8	4363.8	4311.7	4330.7	4629.7	4799.4	5322.7	5572.8	4776.2
32.5°	4558.4	4576.7	4574.2	4542.7	4468.2	4391.2	4601.5	4756.3	5320.3	5657.3	4772.1
35°	4729.8	4750.6	4785.3	4778.7	4700.9	4574.2	4697.6	4819.3	5369.1	5796.4	4816.8
37.5°	4912.0	4943.5	5018.0	5053.6	5003.1	4859.9	4912.8	4999.8	5499.9	6021.6	4930.2
40°	5088.4	5124.0	5259.8	5399.7	5361.7	5214.3	5239.1	5308.7	5732.6	6345.4	5145.5
42.5°	5261.5	5314.5	5514.0	5744.2	5789.8	5672.2	5685.4	5740.9	6077.9	6790.9	5497.5
45°	5468.5	5528.1	5823.7	6107.7	6229.5	6178.1	6234.4	6270.9	6529.2	7379.6	5971.9
47.5°	5772.4	5841.1	6203.8	6527.6	6741.2	6774.3	6887.8	6911.8	7099.7	8065.3	6590.5
50°	6365.3	6384.3	6712.2	7006.2	7314.2	7512.9	7642.1	7660.3	7790.3	8814.6	7363.1
52.5°	7111.3	7123.8	7309.2	7506.3	7856.6	8262.3	8564.6	8590.2	8617.6	9545.0	8125.7
55°	7852.4	7850.8	7973.3	8089.3	8490.0	9079.6	9735.4	9751.2	9554.9	10238.1	8708.7
57.5°	8315.3	8360.0	8546.4	8695.4	9255.2	10011.2	10921.2	10979.2	10539.5	10751.5	9285.0
60°	8167.9	8189.5	8602.7	9154.1	10208.3	11335.2	12121.1	12136.0	11279.8	11264.0	10013.7
62.5°	6959.0	6970.6	7619.8	8756.7	10691.0	13052.6	13568.5	13325.9	12131.0	11975.3	10885.6
65°	4769.6	4844.9	5387.3	6792.5	9804.2	14129.9	15809.2	15407.6	13428.6	13000.5	11673.9
67.5°	2808.8	2793.0	3061.3	4096.4	7200.8	13414.5	18643.7	18244.5	15198.1	13686.9	11442.9
70°	1918.6	1907.8	2010.5	2480.0	4064.9	10406.2	19535.5	20341.2	16760.7	13224.9	9848.1
72.5°	1369.6	1375.4	1526.9	1926.9	2552.1	6063.0	16799.6	18706.6	16271.3	11529.0	7485.6
75°	929.9	945.6	1162.6	1580.8	2237.4	3084.5	11921.5	14220.2	13249.7	8379.1	4302.6
77.5°	500.1	517.5	773.4	1273.5	2022.9	2143.0	7668.6	9786.8	8322.8	3766.8	1247.1
80°	208.7	218.6	361.9	925.8	1748.0	1882.2	4512.1	5934.7	3546.6	742.8	278.2
82.5°	90.3	95.2	150.7	552.3	1306.7	1589.0	2388.9	2855.1	1074.8	163.1	139.9
85°	17.4	18.2	62.1	292.3	833.9	896.8	1548.5	1517.8	482.8	70.4	101.9
87.5°	0.0	0.0	14.9	91.9	245.1	488.6	944.8	933.2	164.0	34.0	38.1
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°	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5	5882.5
2.5°	5836.1	5779.0	5658.9	5510.7	5397.3	5272.2	5172.9	5047.0	4992.3	4994.8	4965.0
5°	5705.3	5587.7	5321.9	4986.5	4728.2	4461.6	4232.2	4003.6	3868.7	3824.8	3783.4
7.5°	5518.2	5331.8	4907.9	4391.2	3954.0	3526.7	3154.9	2827.8	2620.8	2519.8	2482.5
10°	5307.0	5045.3	4431.7	3751.1	3126.7	2548.8	2066.8	1647.8	1480.6	1367.1	1338.1
12.5°	5121.5	4767.1	3966.4	3094.4	2353.3	1656.1	1196.5	935.7	822.3	777.5	770.1
15°	4946.8	4507.1	3518.4	2499.9	1629.6	1019.3	761.0	672.4	645.9	638.4	638.4
17.5°	4782.0	4259.5	3080.4	1914.5	1078.1	714.6	630.1	610.3	602.0	601.2	602.0
20°	4609.8	4011.9	2649.8	1402.7	752.7	605.3	582.1	571.4	568.9	568.9	568.9
22.5°	4445.0	3764.3	2230.8	1001.9	603.7	552.3	540.7	533.3	530.8	530.0	528.3
25°	4286.8	3529.2	1821.7	708.0	530.0	505.9	496.0	486.1	478.6	474.5	472.0
27.5°	4156.8	3319.7	1440.8	568.0	478.6	457.9	445.5	430.6	412.4	404.1	400.8
30°	4053.3	3128.4	1110.4	479.4	430.6	409.9	390.8	365.2	338.7	324.6	323.8
32.5°	3972.2	2940.4	843.0	424.0	387.5	361.9	334.5	302.2	271.6	255.9	255.0
35°	3932.4	2774.8	644.2	383.4	349.4	317.1	283.2	247.6	217.8	202.9	201.2
37.5°	3958.9	2634.9	502.6	349.4	317.1	279.9	240.1	202.9	176.4	163.1	162.3
40°	4055.8	2545.4	408.2	320.5	289.8	244.3	201.2	166.4	144.1	133.3	132.5
42.5°	4262.0	2512.3	348.6	296.4	263.3	211.2	167.3	137.5	116.8	109.3	107.6
45°	4606.5	2561.2	308.0	273.3	236.0	179.7	138.3	112.6	94.4	88.6	87.8
47.5°	5065.2	2689.5	279.1	250.9	211.2	151.5	115.1	91.1	77.0	71.2	70.4
50°	5656.4	2893.2	255.0	228.5	188.0	128.3	95.2	72.0	59.6	55.5	55.5
52.5°	6299.8	3135.8	233.5	207.8	164.8	106.8	77.0	55.5	47.2	42.2	42.2
55°	6831.5	3347.8	210.3	192.1	136.6	88.6	58.8	42.2	34.8	32.3	32.3
57.5°	7362.2	3573.9	183.8	164.8	109.3	72.0	44.7	31.5	25.7	24.0	24.0
60°	8050.3	3850.5	158.2	134.1	86.1	54.7	33.1	22.4	19.0	18.2	18.2
62.5°	8807.2	4012.8	135.0	107.6	67.1	40.6	24.0	14.9	14.1	14.1	13.2
65°	9270.1	3783.4	113.4	86.1	52.2	30.6	15.7	10.8	12.4	11.6	9.9
67.5°	8679.7	2962.0	92.7	67.1	40.6	23.2	9.9	7.5	13.2	10.8	8.3
70°	7186.7	2073.4	72.0	47.2	32.3	19.9	6.6	5.0	14.1	10.8	6.6
72.5°	5378.2	1387.8	57.1	31.5	24.0	17.4	5.8	2.5	12.4	9.1	5.8
75°	2938.8	558.9	45.5	19.9	14.9	12.4	4.1	1.7	8.3	6.6	4.1
77.5°	773.4	147.4	33.1	13.2	8.3	5.0	2.5	0.8	4.1	3.3	1.7
80°	197.1	57.1	21.5	9.1	5.8	2.5	0.0	0.0	0.8	0.0	0.0
82.5°	105.2	24.0	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.5	15.7	7.5	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.6	5.0	2.5	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)