

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: P322492

Luminaire Tested: **GAN-SA8C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33666 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

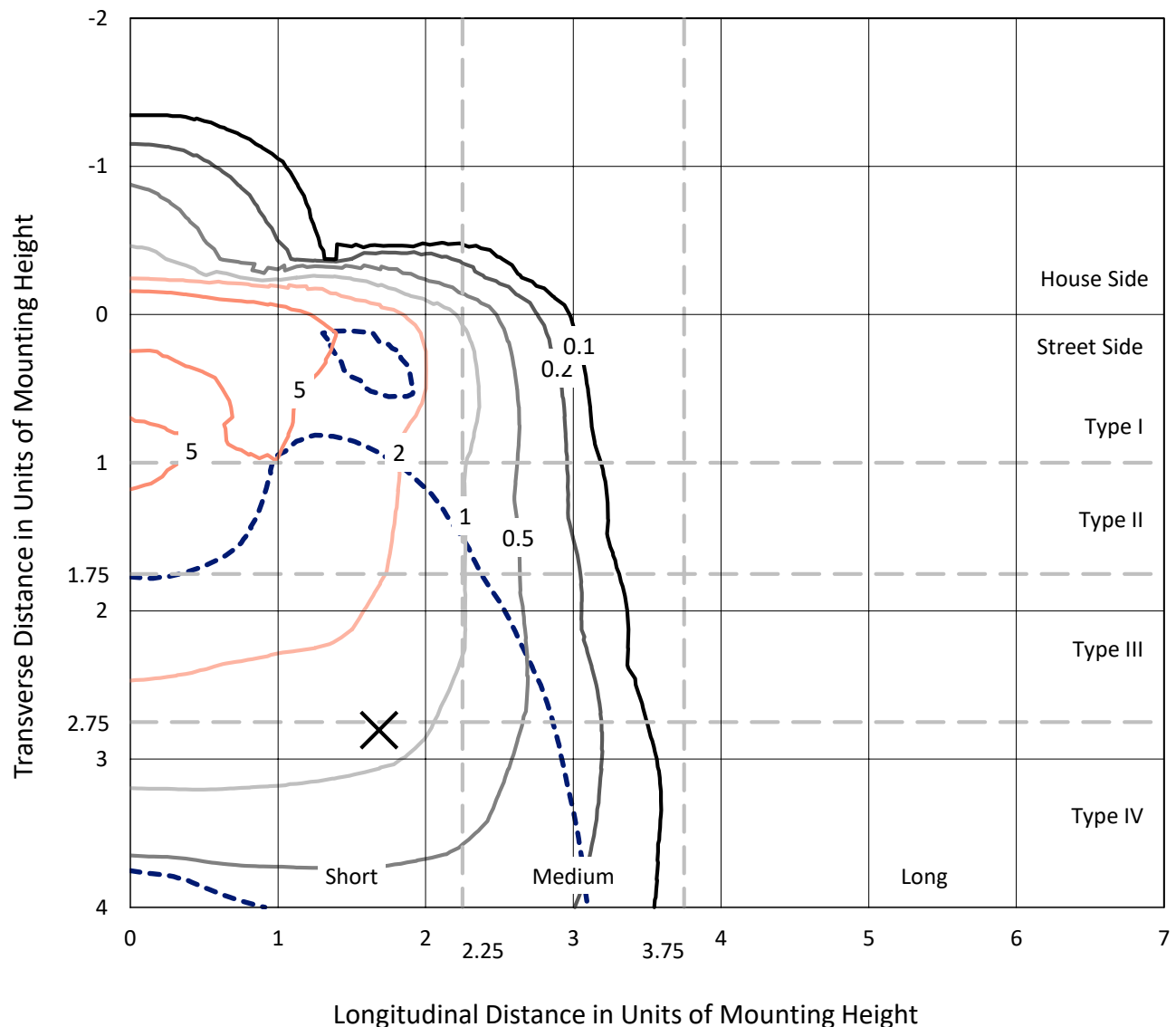
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

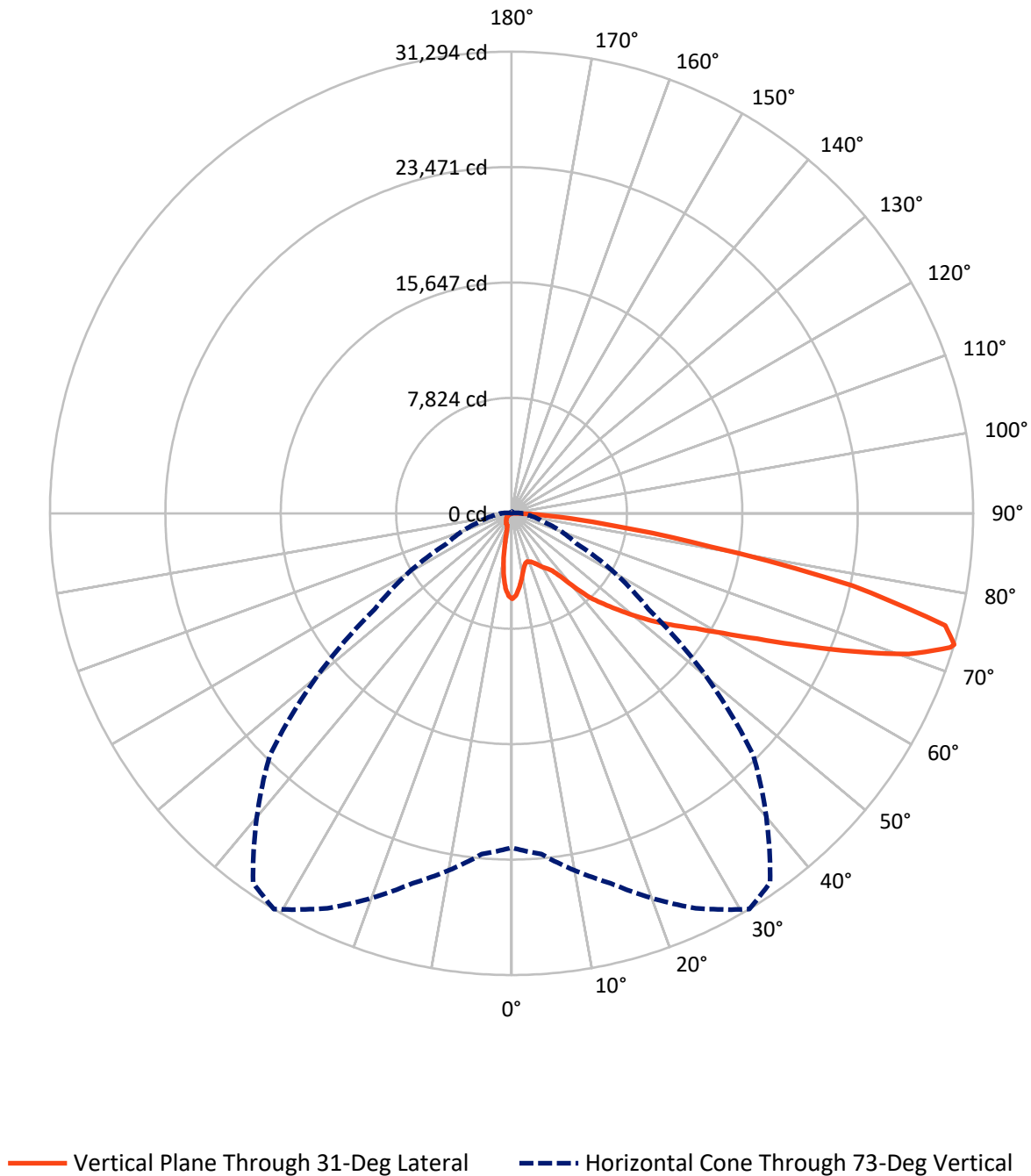
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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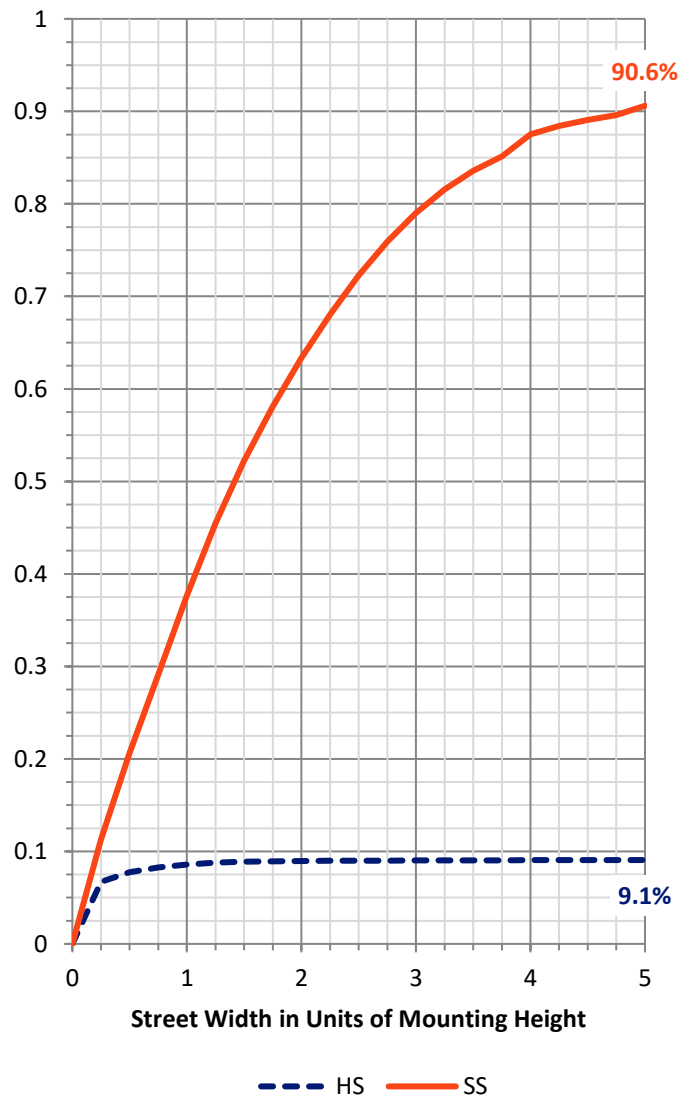
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3068.8	0.0	3068.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	30597.2	0.0	30597.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	33666.0	0.0	33666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	1.4
10°-20°	1042.8	3.1
20°-30°	1562.4	4.6
30°-40°	2485.8	7.4
40°-50°	4438.9	13.2
50°-60°	6887.9	20.5
60°-70°	9156.6	27.2
70°-80°	6887.6	20.5
80°-90°	723.7	2.1
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°	33666.0	100.0
0°-180°	33666.0	100.0

Coefficient of Utilization



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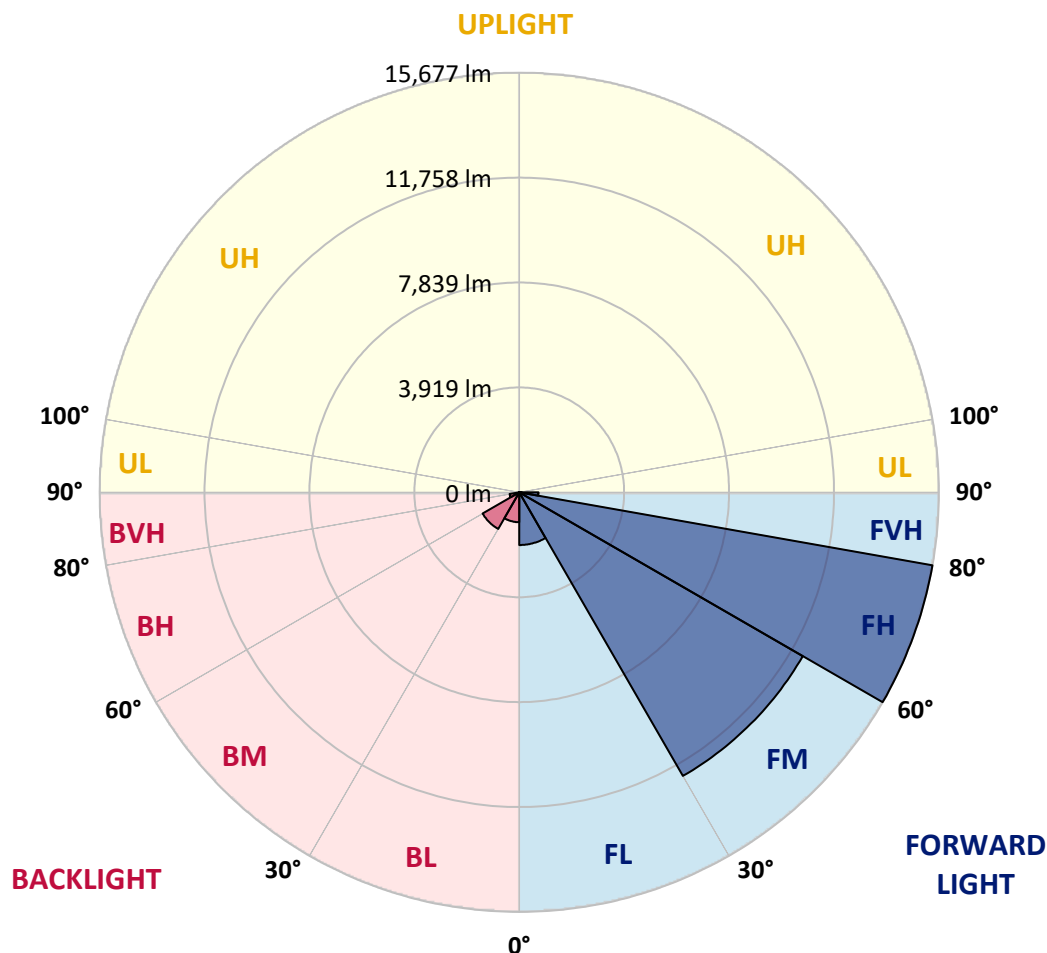
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1969.5	5.9			
FM	(30°-60°)	12233.1	36.3			
FH	(60°-80°)	15677.0	46.6			G5
FVH	(80°-90°)	717.7	2.1			G4/750
BL	(0°-30°)	1115.9	3.3	B3/2500		
BM	(30°-60°)	1579.6	4.7	B2/2500		
BH	(60°-80°)	367.2	1.1	B1/500		G1/500
BVH	(80°-90°)	6.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3
2.5°	5489.2	5512.2	5537.0	5541.9	5583.1	5584.7	5644.0	5688.5	5733.0	5775.8	5790.7
5°	4925.8	4963.7	5008.1	5052.6	5139.9	5174.5	5319.5	5467.8	5609.4	5744.5	5810.4
7.5°	4324.5	4367.3	4429.9	4540.3	4637.5	4705.0	4934.0	5197.6	5461.2	5709.9	5853.3
10°	3775.9	3815.4	3881.3	3998.3	4148.2	4240.4	4548.5	4914.2	5301.4	5678.6	5917.5
12.5°	3426.6	3448.0	3484.3	3609.5	3744.6	3848.4	4210.8	4663.8	5169.6	5677.0	6021.3
15°	3362.4	3369.0	3339.3	3395.3	3500.8	3601.2	3968.6	4461.2	5069.1	5703.3	6156.4
17.5°	3464.5	3461.2	3362.4	3355.8	3439.8	3522.2	3850.0	4321.2	4998.3	5764.3	6331.0
20°	3619.4	3607.8	3436.5	3405.2	3494.2	3571.6	3841.8	4268.4	4971.9	5866.4	6543.5
22.5°	3825.3	3805.5	3537.0	3504.0	3599.6	3680.3	3943.9	4319.5	4995.0	6003.2	6790.6
25°	4080.6	4051.0	3710.0	3673.7	3770.9	3851.7	4126.8	4466.1	5064.1	6169.6	7103.6
27.5°	4368.9	4326.1	3986.7	3892.8	4003.2	4087.2	4370.6	4690.2	5172.9	6345.8	7487.5
30°	4640.8	4584.8	4278.3	4123.5	4258.6	4352.5	4634.2	4957.1	5347.5	6617.7	8013.0
32.5°	4914.2	4851.6	4538.6	4354.1	4476.0	4578.2	4906.0	5324.4	5675.3	7032.8	8711.5
35°	5543.5	5477.6	5093.8	4789.0	4787.4	4845.0	5286.5	5826.9	6108.6	7611.0	9545.1
37.5°	6602.8	6564.9	6199.2	5621.0	5466.1	5401.9	5805.5	6426.6	6731.3	8406.7	10485.8
40°	7762.6	7729.7	7319.5	6795.6	6560.0	6401.8	6550.1	7261.8	7611.0	9378.7	11446.2
42.5°	9072.3	8915.8	8184.3	8027.8	7817.0	7696.7	7563.3	8291.4	8691.8	10436.4	12398.4
45°	10261.7	9998.1	9049.2	8812.0	8764.2	8793.9	8868.0	9675.3	9907.5	11693.3	13347.3
47.5°	10970.1	10762.5	10034.4	9807.0	9793.9	9989.9	10550.0	11238.7	11118.4	12788.9	14182.6
50°	11643.9	11456.1	10851.5	10907.5	10968.5	11235.4	12459.4	12846.5	12223.8	13782.3	14948.6
52.5°	12189.2	11902.6	11586.3	11900.9	12200.7	12630.7	14429.7	14289.7	13008.0	14573.0	15604.3
55°	12503.9	12373.7	12526.9	12843.2	13406.6	14105.2	16289.6	15490.6	13581.3	15294.6	16040.9
57.5°	13657.1	13401.7	13706.5	13979.9	14714.7	15691.6	17882.7	16385.2	13994.8	15741.0	16141.4
60°	15052.4	14846.5	15026.1	15480.7	16472.5	17620.7	19371.9	17115.0	14210.6	16027.7	15881.1
62.5°	17273.1	17001.3	16889.3	17398.3	18713.0	19966.6	20502.1	17620.7	14162.8	15900.8	14988.2
65°	20248.4	19966.6	19465.8	19927.1	21599.2	22483.9	21765.6	17727.8	13833.3	14874.5	12731.2
67.5°	23296.1	23091.8	22663.5	23441.0	24950.1	25235.1	23101.7	17467.5	12772.4	12060.7	8994.9
70°	25309.2	25221.9	25500.3	27220.2	28566.1	28483.8	24327.3	16068.9	9955.3	7416.7	4449.7
72.5°	23857.8	24276.3	26332.3	29450.8	31094.9	30422.8	23698.0	12339.1	5690.2	2853.3	1286.6
73°	22655.2	23190.6	25958.3	29534.8	31294.3	30557.9	23169.2	11326.0	4850.0	2252.0	975.3
75°	15760.8	16418.1	21490.5	27506.9	30361.8	29114.7	19312.6	6932.3	2247.1	998.3	393.7
77.5°	7652.2	8138.2	11833.4	19874.4	23612.4	22747.5	12022.8	2583.1	1014.8	624.4	181.2
80°	2856.6	3176.2	5136.6	10115.1	13645.5	14003.0	5288.2	976.9	675.4	502.5	92.3
82.5°	747.9	833.6	1894.5	4510.6	6993.3	7319.5	1667.2	492.6	494.2	413.5	56.0
85°	238.9	273.5	591.4	2024.7	3294.8	2892.9	434.9	238.9	359.1	308.1	31.3
87.5°	29.7	37.9	187.8	476.1	726.5	403.6	67.5	70.8	153.2	171.3	18.1
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°	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3	5792.3
2.5°	5805.5	5797.2	5798.9	5756.1	5728.1	5672.0	5614.4	5588.0	5560.0	5548.5	5560.0
5°	5835.1	5820.3	5777.5	5645.7	5505.7	5324.4	5154.8	5026.3	4864.8	4820.3	4866.5
7.5°	5881.3	5851.6	5726.4	5457.9	5146.5	4800.6	4411.8	4128.4	3896.1	3746.2	3800.6
10°	5948.8	5892.8	5640.7	5184.4	4627.6	4014.7	3462.9	3032.9	2728.1	2602.9	2598.0
12.5°	6062.5	5957.0	5535.3	4828.6	3993.3	3176.2	2453.0	1986.8	1739.7	1579.9	1576.6
15°	6187.7	6032.8	5401.9	4401.9	3255.3	2275.1	1579.9	1225.7	1065.9	1014.8	1008.2
17.5°	6340.9	6120.1	5228.9	3876.4	2482.7	1507.4	1031.3	929.1	922.6	917.6	917.6
20°	6533.6	6223.9	5006.5	3275.1	1761.1	1006.6	876.4	883.0	886.3	879.7	881.4
22.5°	6757.7	6329.4	4741.3	2629.3	1191.1	841.8	838.5	846.8	850.1	846.8	848.4
25°	7018.0	6451.3	4418.4	1952.2	859.9	799.0	807.2	818.8	827.0	827.0	827.0
27.5°	7340.9	6599.5	4029.6	1362.4	743.0	754.5	777.6	799.0	810.5	813.8	813.8
30°	7761.0	6784.0	3563.4	934.1	675.4	695.2	738.0	779.2	800.6	803.9	805.6
32.5°	8291.4	6991.6	3023.0	690.3	617.8	632.6	678.7	747.9	789.1	795.7	795.7
35°	8899.3	7232.1	2441.5	601.3	576.6	581.5	617.8	696.9	769.3	787.5	789.1
37.5°	9564.9	7469.4	1856.6	561.8	542.0	542.0	568.4	635.9	721.6	777.6	784.2
40°	10186.0	7612.7	1301.5	530.5	510.7	510.7	533.8	583.2	663.9	747.9	766.0
42.5°	10759.3	7662.1	906.1	500.8	481.0	486.0	505.8	545.3	606.2	690.3	706.7
45°	11349.0	7653.9	660.6	466.2	451.4	466.2	481.0	510.7	555.2	603.0	606.2
47.5°	11793.8	7584.7	523.9	433.3	423.4	443.2	456.3	476.1	500.8	497.5	497.5
50°	12210.6	7416.7	421.7	388.8	395.4	418.4	425.0	431.6	433.3	402.0	398.7
52.5°	12526.9	7154.7	337.7	341.0	367.4	390.4	383.8	374.0	357.5	319.6	313.0
55°	12632.4	6650.6	265.2	281.7	326.2	355.8	331.1	309.7	278.4	247.1	240.5
57.5°	12441.3	5999.9	215.8	219.1	275.1	299.8	271.8	247.1	212.5	186.2	181.2
60°	12036.0	5276.7	177.9	164.7	212.5	233.9	215.8	191.1	159.8	140.0	138.4
62.5°	11232.1	4505.7	146.6	128.5	161.4	179.6	168.0	149.9	123.6	110.4	108.7
65°	9541.8	3604.5	118.6	103.8	125.2	140.0	130.1	117.0	97.2	87.3	85.7
67.5°	6660.5	2436.5	97.2	85.7	98.8	110.4	102.1	95.5	77.4	75.8	77.4
70°	3212.5	1174.6	80.7	69.2	77.4	85.7	82.4	77.4	74.1	85.7	98.8
72.5°	920.9	393.7	64.2	57.7	62.6	67.5	70.8	69.2	80.7	103.8	120.3
73°	708.4	318.0	61.0	54.4	59.3	65.9	69.2	67.5	82.4	105.4	120.3
75°	303.1	153.2	46.1	44.5	49.4	57.7	61.0	61.0	82.4	107.1	115.3
77.5°	136.7	82.4	29.7	34.6	42.8	46.1	51.1	51.1	65.9	82.4	82.4
80°	77.4	44.5	23.1	26.4	31.3	31.3	31.3	28.0	29.7	32.9	36.2
82.5°	49.4	29.7	18.1	21.4	19.8	16.5	13.2	13.2	11.5	13.2	16.5
85°	28.0	16.5	16.5	13.2	8.2	6.6	8.2	6.6	1.6	0.0	1.6
87.5°	16.5	9.9	4.9	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)