

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: P322484

Luminaire Tested: **GAN-SA0B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322484
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-SA0B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 33592 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

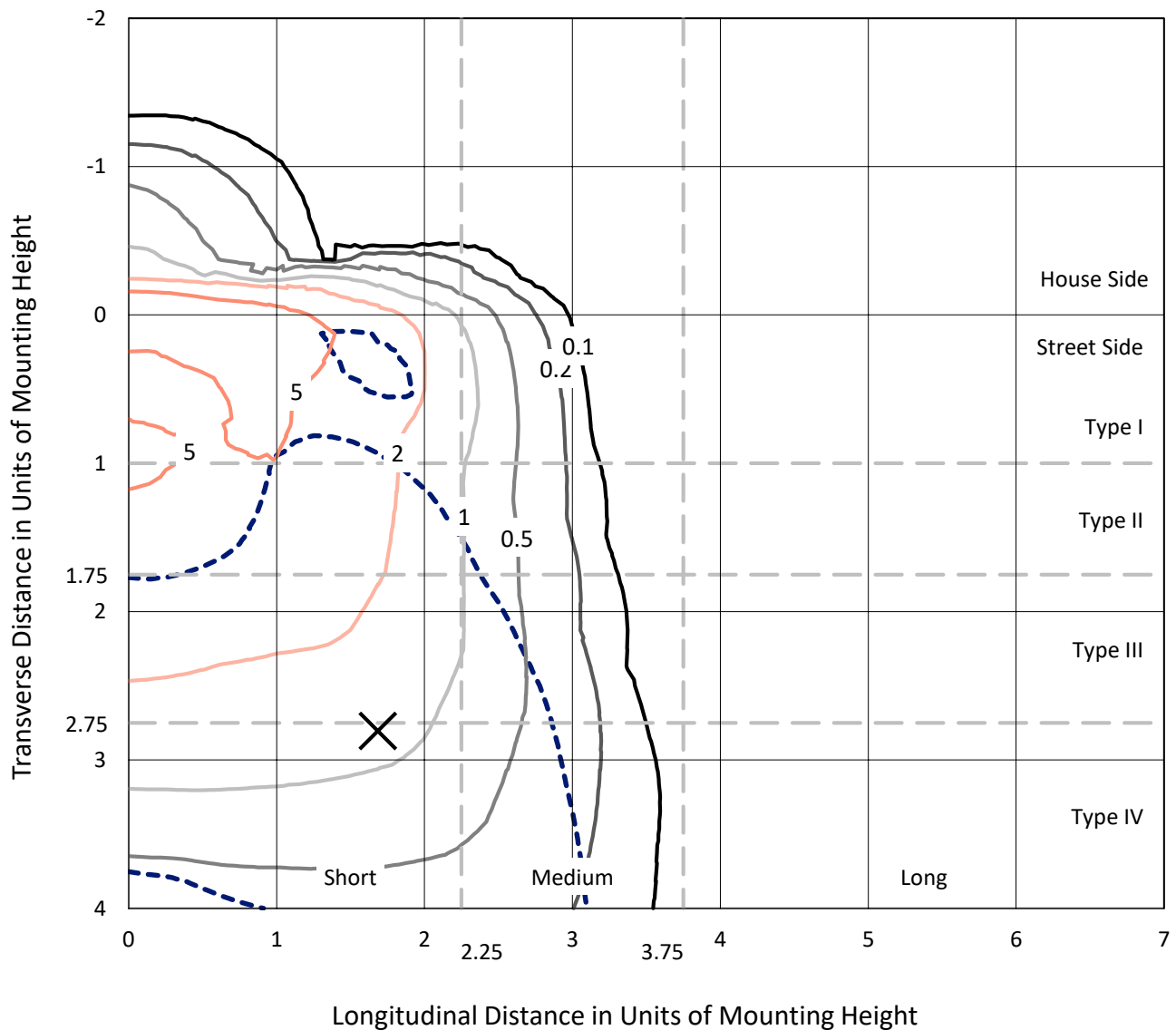
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

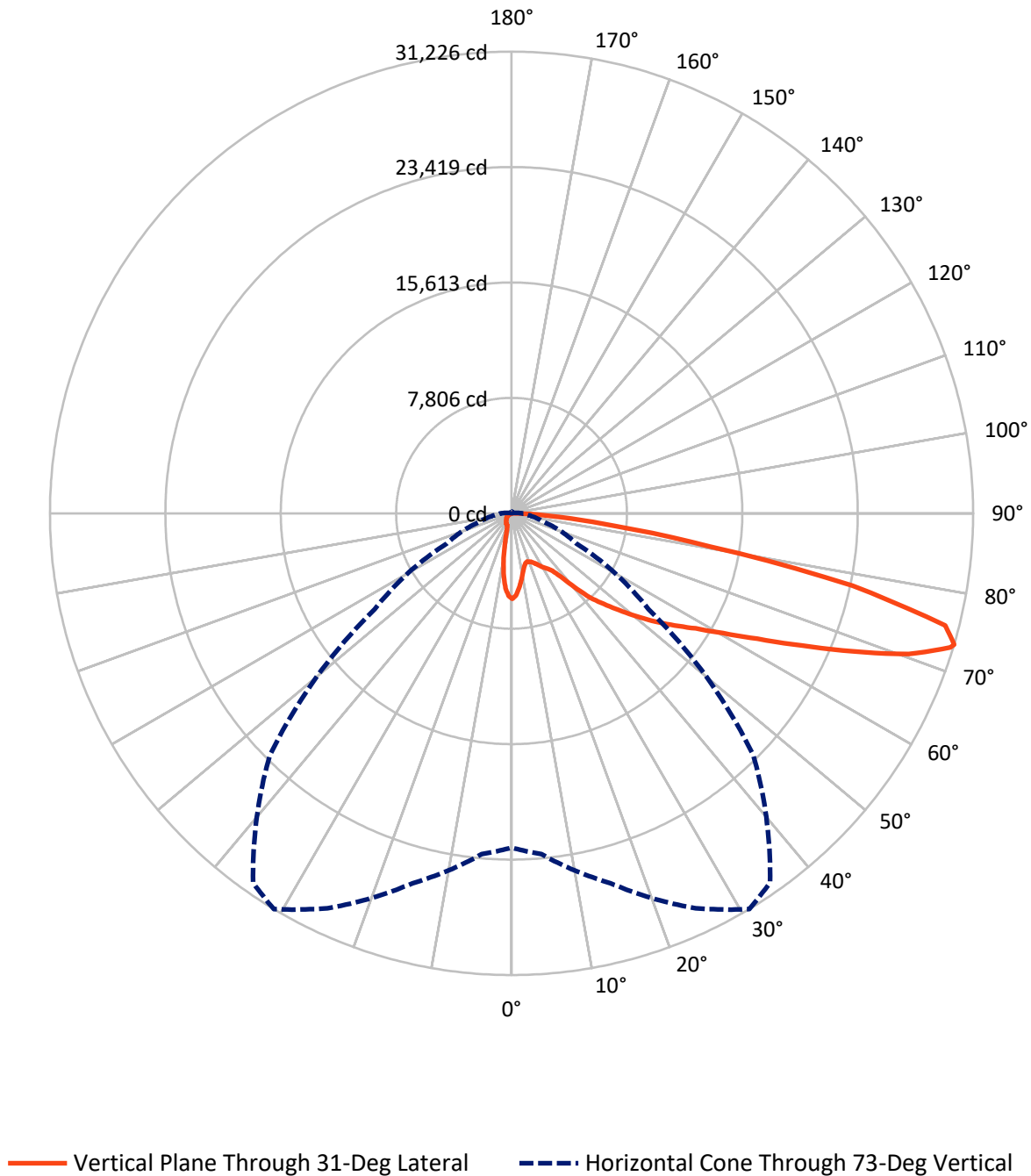
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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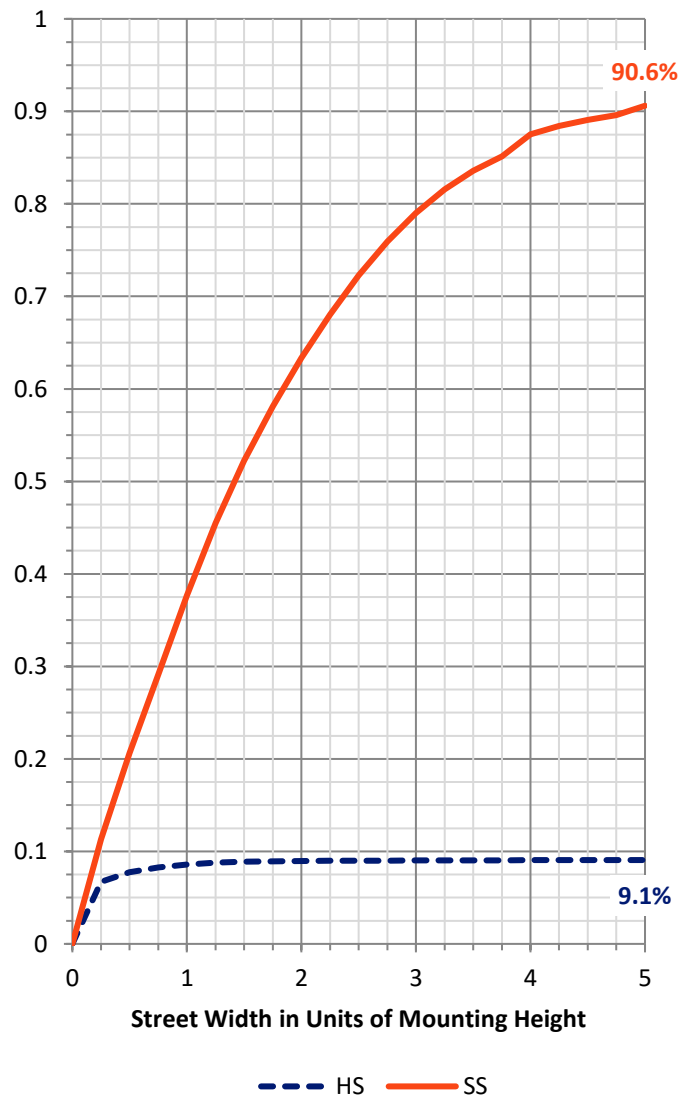
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3062.0	0.0	3062.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	30530.0	0.0	30530.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	33592.0	0.0	33592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.2	1.4
10°-20°	1040.5	3.1
20°-30°	1559.0	4.6
30°-40°	2480.3	7.4
40°-50°	4429.2	13.2
50°-60°	6872.8	20.5
60°-70°	9136.4	27.2
70°-80°	6872.5	20.5
80°-90°	722.2	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°	33592.0	100.0
0°-180°	33592.0	100.0

Coefficient of Utilization



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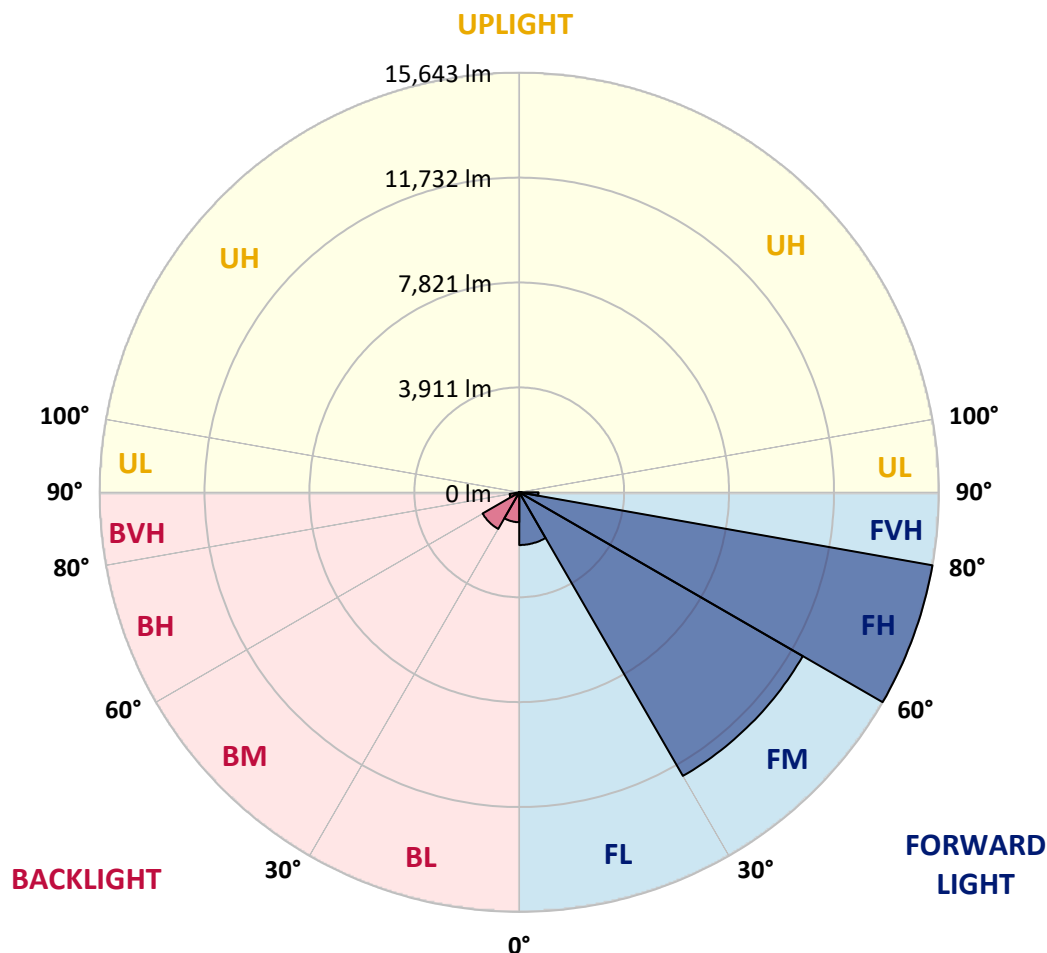
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1965.2	5.9			
FM	(30°-60°)	12206.2	36.3			
FH	(60°-80°)	15642.6	46.6			G5
FVH	(80°-90°)	716.1	2.1			G4/750
BL	(0°-30°)	1113.5	3.3	B3/2500		
BM	(30°-60°)	1576.1	4.7	B2/2500		
BH	(60°-80°)	366.4	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°	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6
2.5°	5477.1	5500.1	5524.8	5529.7	5570.8	5572.5	5631.6	5676.0	5720.4	5763.1	5777.9
5°	4914.9	4952.7	4997.1	5041.5	5128.6	5163.2	5307.8	5455.7	5597.1	5731.9	5797.7
7.5°	4315.0	4357.7	4420.2	4530.3	4627.3	4694.7	4923.2	5186.2	5449.2	5697.4	5840.4
10°	3767.6	3807.0	3872.8	3989.5	4139.1	4231.1	4538.5	4903.4	5289.7	5666.2	5904.5
12.5°	3419.1	3440.5	3476.6	3601.5	3736.3	3839.9	4201.5	4653.6	5158.2	5664.5	6008.1
15°	3355.0	3361.6	3332.0	3387.9	3493.1	3593.3	3959.9	4451.4	5057.9	5690.8	6142.9
17.5°	3456.9	3453.6	3355.0	3348.4	3432.2	3514.4	3841.5	4311.7	4987.3	5751.6	6317.1
20°	3611.4	3599.9	3428.9	3397.7	3486.5	3563.7	3833.3	4259.1	4961.0	5853.5	6529.1
22.5°	3816.9	3797.2	3529.2	3496.3	3591.7	3672.2	3935.2	4310.0	4984.0	5990.0	6775.7
25°	4071.7	4042.1	3701.8	3665.7	3762.6	3843.2	4117.7	4456.3	5053.0	6156.0	7088.0
27.5°	4359.3	4316.6	3978.0	3884.3	3994.4	4078.2	4361.0	4679.9	5161.5	6331.9	7471.0
30°	4630.6	4574.7	4268.9	4114.4	4249.2	4342.9	4624.0	4946.2	5335.7	6603.1	7995.4
32.5°	4903.4	4841.0	4528.6	4344.5	4466.2	4568.1	4895.2	5312.7	5662.9	7017.3	8692.4
35°	5531.4	5465.6	5082.6	4778.5	4776.9	4834.4	5274.9	5814.1	6095.2	7594.3	9524.1
37.5°	6588.3	6550.5	6185.6	5608.6	5454.1	5390.0	5792.7	6412.4	6716.5	8388.3	10462.7
40°	7745.5	7712.7	7303.4	6780.6	6545.6	6387.8	6535.7	7245.8	7594.3	9358.1	11421.1
42.5°	9052.4	8896.2	8166.4	8010.2	7799.8	7679.8	7546.6	8273.2	8672.6	10413.4	12371.2
45°	10239.2	9976.2	9029.3	8792.6	8745.0	8774.6	8848.5	9654.0	9885.8	11667.6	13318.0
47.5°	10946.0	10738.9	10012.3	9785.5	9772.3	9968.0	10526.8	11213.9	11094.0	12760.8	14151.4
50°	11618.3	11430.9	10827.7	10883.5	10944.4	11210.7	12432.0	12818.3	12196.9	13752.0	14915.8
52.5°	12162.4	11876.4	11560.8	11874.8	12173.9	12603.0	14398.0	14258.3	12979.4	14541.0	15570.0
55°	12476.4	12346.5	12499.4	12815.0	13377.2	14074.1	16253.8	15456.6	13551.4	15261.0	16005.6
57.5°	13627.0	13372.2	13676.3	13949.2	14682.3	15657.1	17843.4	16349.2	13964.0	15706.4	16105.9
60°	15019.3	14813.9	14993.0	15446.7	16436.3	17582.0	19329.3	17077.4	14179.3	15992.5	15846.2
62.5°	17235.2	16963.9	16852.2	17360.1	18671.8	19922.8	20457.0	17582.0	14131.7	15865.9	14955.2
65°	20203.8	19922.8	19423.0	19883.3	21551.8	22434.5	21717.8	17688.8	13802.9	14841.8	12703.2
67.5°	23244.9	23041.0	22613.6	23389.5	24895.2	25179.6	23050.9	17429.1	12744.3	12034.2	8975.1
70°	25253.6	25166.5	25444.3	27160.4	28503.4	28421.2	24273.9	16033.5	9933.4	7400.4	4439.9
72.5°	23805.4	24222.9	26274.4	29386.1	31026.6	30355.9	23645.9	12312.0	5677.7	2847.0	1283.8
73°	22605.4	23139.7	25901.2	29469.9	31225.5	30490.7	23118.3	11301.1	4839.3	2247.1	973.1
75°	15726.2	16382.0	21443.3	27446.4	30295.1	29050.7	19270.2	6917.1	2242.1	996.1	392.9
77.5°	7635.4	8120.3	11807.4	19830.7	23560.5	22697.5	11996.4	2577.5	1012.6	623.0	180.8
80°	2850.3	3169.2	5125.3	10092.9	13615.5	13972.2	5276.6	974.8	674.0	501.4	92.1
82.5°	746.3	831.8	1890.4	4500.7	6977.9	7303.4	1663.5	491.5	493.1	412.6	55.9
85°	238.3	272.9	590.1	2020.2	3287.6	2886.5	434.0	238.3	358.3	307.4	31.2
87.5°	29.6	37.8	187.4	475.1	724.9	402.7	67.4	70.7	152.9	171.0	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°	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6
2.5°	5792.7	5784.5	5786.1	5743.4	5715.5	5659.6	5602.0	5575.7	5547.8	5536.3	5547.8
5°	5822.3	5807.5	5764.8	5633.3	5493.6	5312.7	5143.4	5015.2	4854.1	4809.7	4855.8
7.5°	5868.3	5838.7	5713.8	5445.9	5135.2	4790.0	4402.1	4119.3	3887.6	3738.0	3792.2
10°	5935.7	5879.8	5628.3	5173.0	4617.4	4005.9	3455.3	3026.2	2722.1	2597.2	2592.3
12.5°	6049.2	5944.0	5523.1	4818.0	3984.6	3169.2	2447.6	1982.4	1735.8	1576.4	1573.1
15°	6174.1	6019.6	5390.0	4392.2	3248.1	2270.1	1576.4	1223.0	1063.5	1012.6	1006.0
17.5°	6327.0	6106.7	5217.4	3867.8	2477.2	1504.1	1029.0	927.1	920.5	915.6	915.6
20°	6519.3	6210.2	4995.5	3267.9	1757.2	1004.4	874.5	881.1	884.4	877.8	879.4
22.5°	6742.8	6315.4	4730.8	2623.5	1188.5	840.0	836.7	844.9	848.2	844.9	846.6
25°	7002.6	6437.1	4408.6	1947.9	858.1	797.2	805.5	817.0	825.2	825.2	825.2
27.5°	7324.7	6585.0	4020.7	1359.4	741.4	752.9	775.9	797.2	808.7	812.0	812.0
30°	7743.9	6769.1	3555.5	932.0	674.0	693.7	736.4	777.5	798.9	802.2	803.8
32.5°	8273.2	6976.3	3016.4	688.7	616.4	631.2	677.2	746.3	787.4	794.0	794.0
35°	8879.8	7216.2	2436.1	600.0	575.3	580.3	616.4	695.3	767.7	785.7	787.4
37.5°	9543.9	7453.0	1852.6	560.5	540.8	540.8	567.1	634.5	720.0	775.9	782.4
40°	10163.6	7596.0	1298.6	529.3	509.6	509.6	532.6	581.9	662.4	746.3	764.4
42.5°	10735.6	7645.3	904.1	499.7	480.0	484.9	504.6	544.1	604.9	688.7	705.2
45°	11324.1	7637.1	659.2	465.2	450.4	465.2	480.0	509.6	554.0	601.6	604.9
47.5°	11767.9	7568.0	522.7	432.3	422.5	442.2	455.3	475.1	499.7	496.4	496.4
50°	12183.8	7400.4	420.8	387.9	394.5	417.5	424.1	430.7	432.3	401.1	397.8
52.5°	12499.4	7139.0	337.0	340.3	366.6	389.6	383.0	373.1	356.7	318.9	312.3
55°	12604.6	6636.0	264.7	281.1	325.5	355.1	330.4	309.0	277.8	246.6	240.0
57.5°	12413.9	5986.7	215.3	218.6	274.5	299.2	271.2	246.6	212.0	185.7	180.8
60°	12009.5	5265.1	177.5	164.4	212.0	233.4	215.3	190.7	159.4	139.7	138.1
62.5°	11207.4	4495.8	146.3	128.2	161.1	179.2	167.7	149.6	123.3	110.1	108.5
65°	9520.8	3596.6	118.4	103.6	124.9	139.7	129.9	116.7	97.0	87.1	85.5
67.5°	6645.9	2431.2	97.0	85.5	98.6	110.1	101.9	95.3	77.3	75.6	77.3
70°	3205.4	1172.0	80.5	69.0	77.3	85.5	82.2	77.3	74.0	85.5	98.6
72.5°	918.9	392.9	64.1	57.5	62.5	67.4	70.7	69.0	80.5	103.6	120.0
73°	706.8	317.3	60.8	54.2	59.2	65.8	69.0	67.4	82.2	105.2	120.0
75°	302.5	152.9	46.0	44.4	49.3	57.5	60.8	60.8	82.2	106.8	115.1
77.5°	136.4	82.2	29.6	34.5	42.7	46.0	51.0	51.0	65.8	82.2	82.2
80°	77.3	44.4	23.0	26.3	31.2	31.2	31.2	27.9	29.6	32.9	36.2
82.5°	49.3	29.6	18.1	21.4	19.7	16.4	13.2	13.2	11.5	13.2	16.4
85°	27.9	16.4	16.4	13.2	8.2	6.6	8.2	6.6	1.6	0.0	1.6
87.5°	16.4	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)