

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: P322804

Luminaire Tested: **GAN-SA0B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34286 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

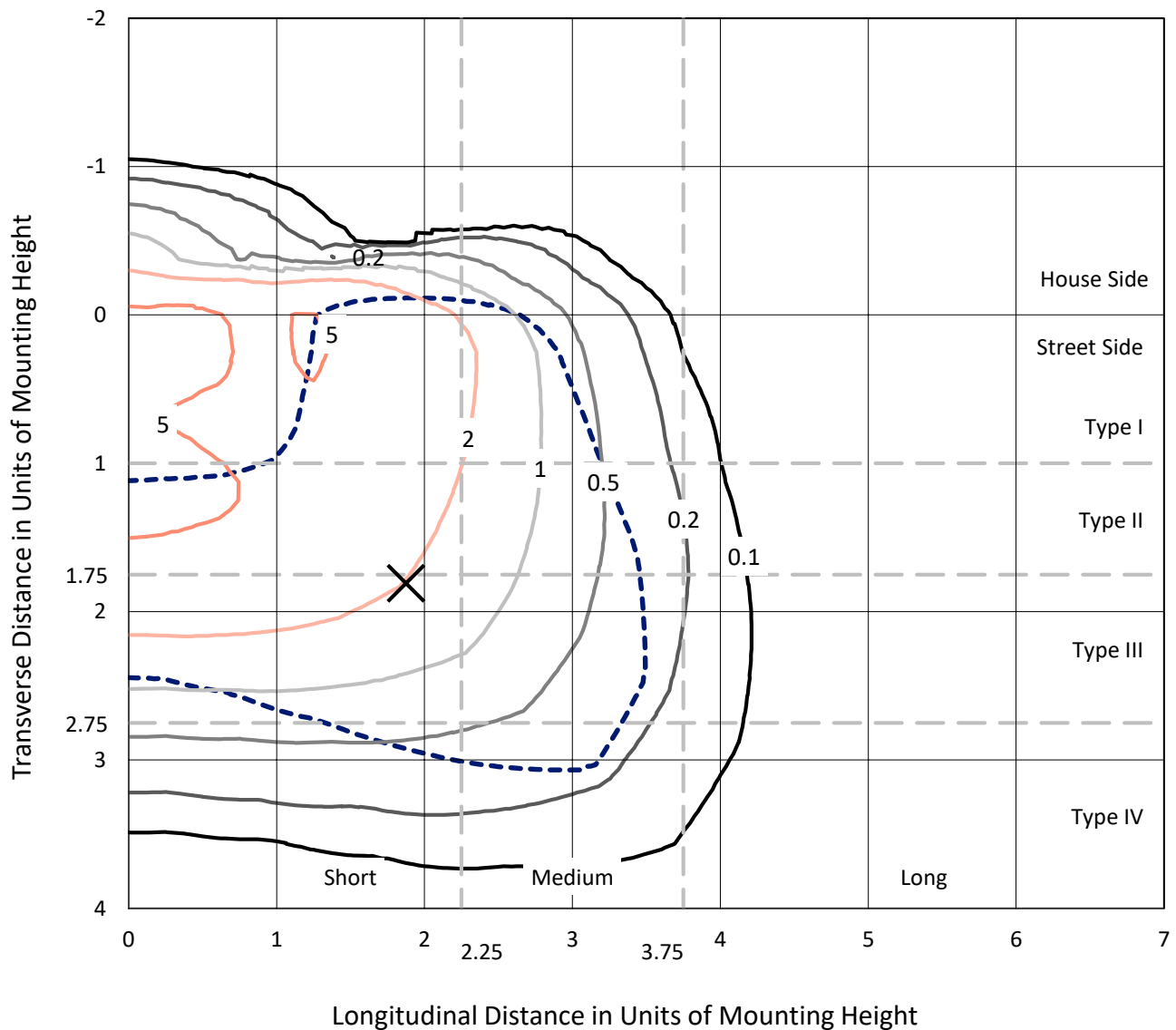


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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

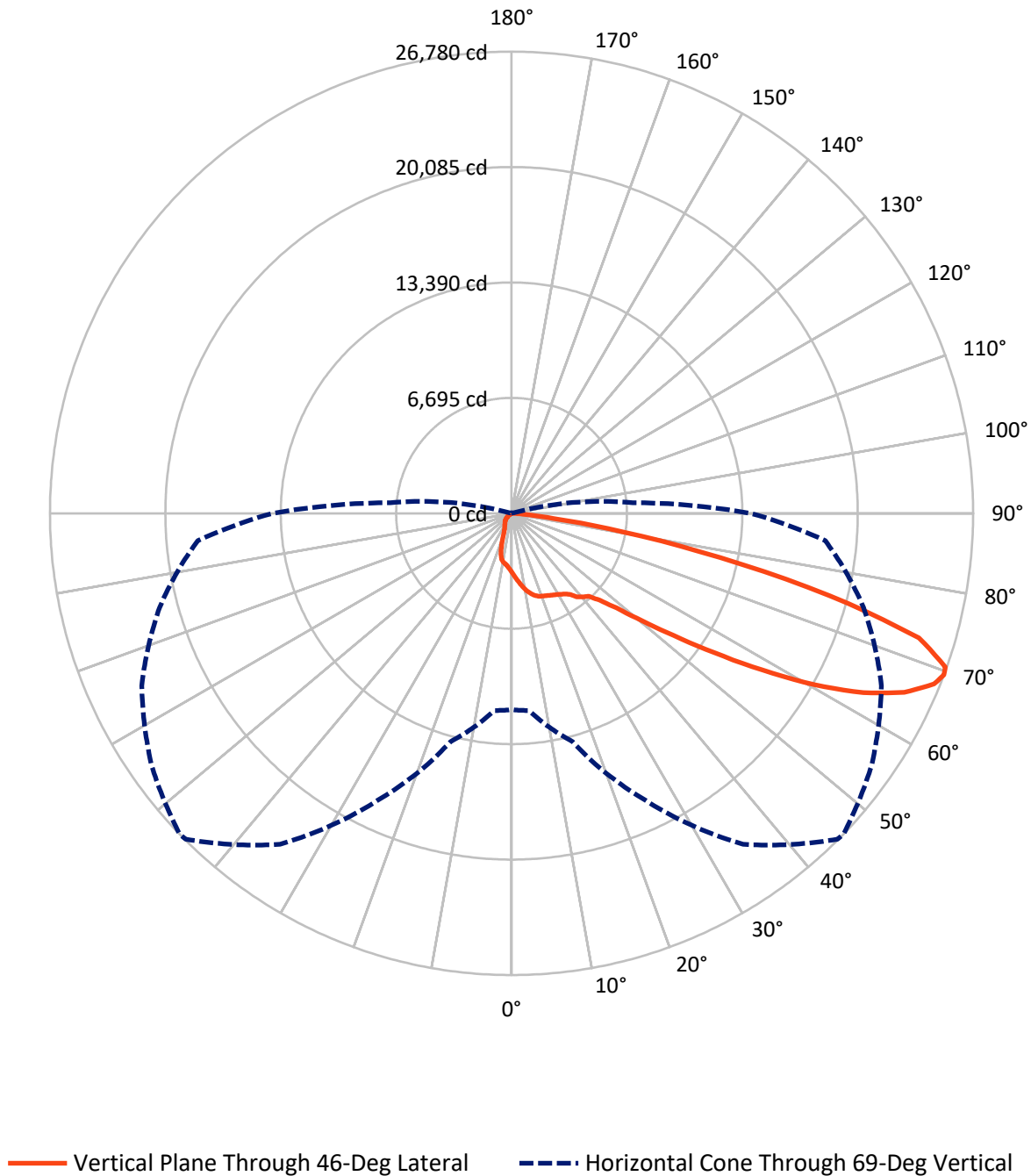


Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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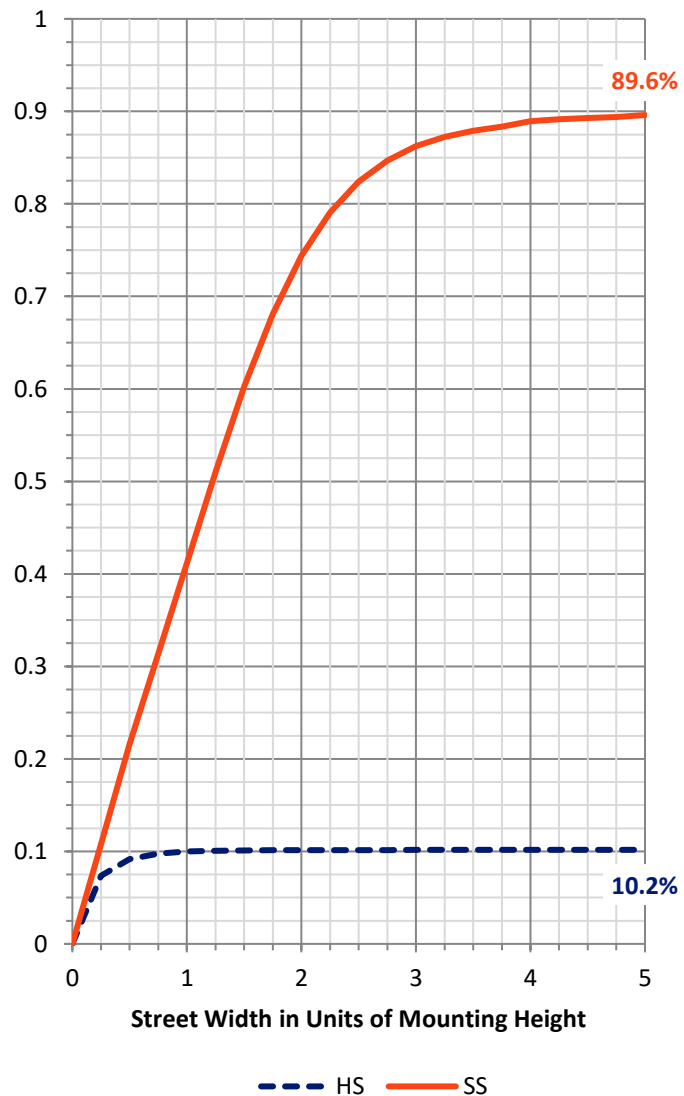
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3518.7	0.0	3518.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30767.3	0.0	30767.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	34286.0	0.0	34286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	1.0
10°-20°	1037.3	3.0
20°-30°	1631.4	4.8
30°-40°	2339.4	6.8
40°-50°	4043.4	11.8
50°-60°	7988.2	23.3
60°-70°	11164.2	32.6
70°-80°	5393.5	15.7
80°-90°	346.7	1.0
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°	34286.0	100.0
0°-180°	34286.0	100.0

Coefficient of Utilization



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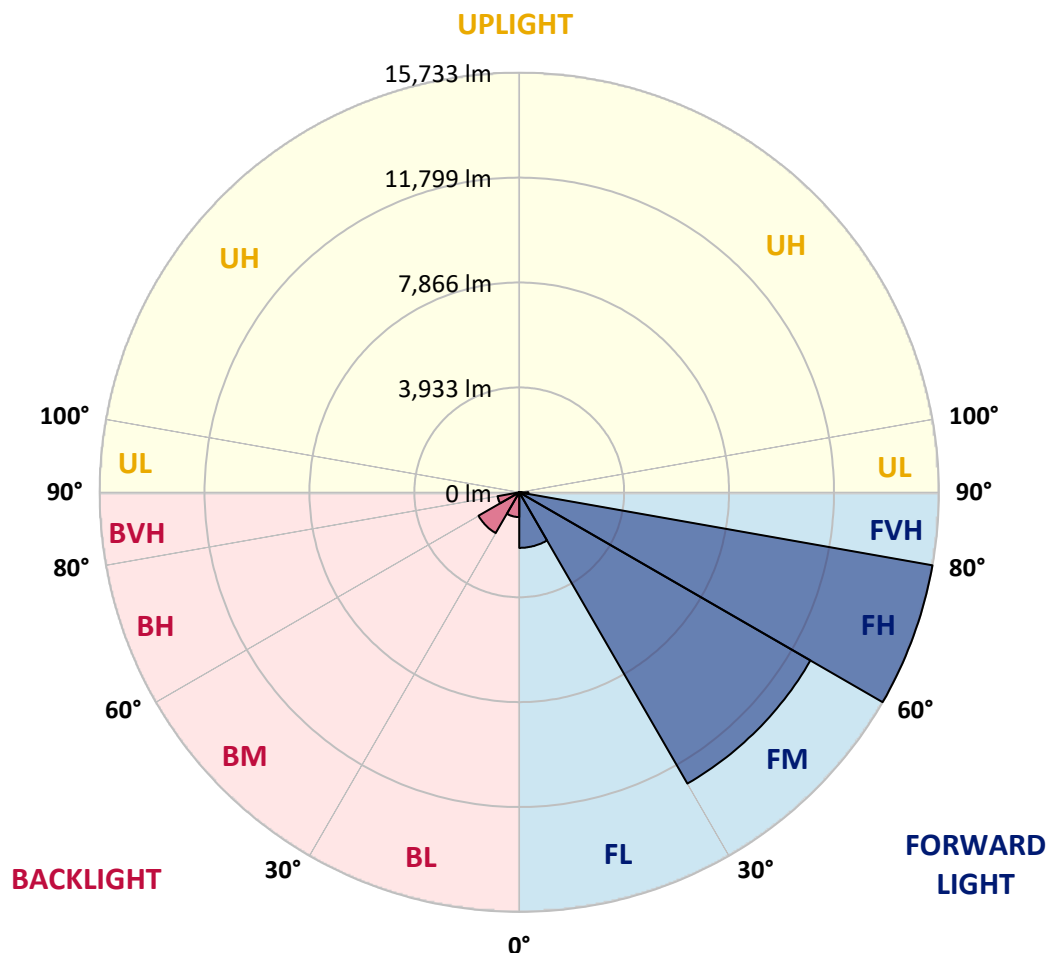
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2083.3	6.1			
FM	(30°-60°)	12607.7	36.8			
FH	(60°-80°)	15732.6	45.9			G5
FVH	(80°-90°)	343.7	1.0			G3/500
BL	(0°-30°)	927.4	2.7	B2/1000		
BM	(30°-60°)	1763.3	5.1	B2/2500		
BH	(60°-80°)	825.1	2.4	B2/1000		G2/1000
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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3
2.5°	3816.3	3811.5	3789.0	3779.3	3724.7	3692.5	3679.7	3639.5	3581.6	3523.7	3459.4
5°	4250.4	4248.7	4207.0	4166.8	4063.9	3967.4	3949.7	3856.5	3726.3	3604.1	3481.9
7.5°	4694.0	4673.1	4631.3	4554.2	4404.7	4250.4	4235.9	4104.1	3919.2	3742.4	3567.1
10°	5070.2	5057.3	5002.7	4885.3	4710.1	4534.9	4517.2	4354.8	4145.9	3928.8	3705.4
12.5°	5362.8	5353.1	5280.8	5134.5	4948.0	4766.4	4742.3	4597.6	4374.1	4131.4	3867.8
15°	5541.2	5536.4	5448.0	5292.0	5108.8	4951.2	4930.3	4803.4	4596.0	4342.0	4044.6
17.5°	5583.0	5584.6	5493.0	5335.5	5184.3	5071.8	5055.7	4959.3	4785.7	4533.3	4221.4
20°	5489.8	5509.1	5427.1	5290.4	5197.2	5137.7	5124.9	5067.0	4920.7	4682.8	4362.9
22.5°	5358.0	5367.6	5311.3	5219.7	5181.1	5192.4	5185.9	5153.8	5030.0	4811.4	4502.7
25°	5277.6	5277.6	5243.8	5166.7	5192.4	5261.5	5263.1	5256.7	5158.6	4968.9	4673.1
27.5°	5274.4	5264.7	5226.1	5168.3	5239.0	5345.1	5351.5	5394.9	5333.8	5160.2	4885.3
30°	5403.0	5391.7	5309.7	5234.2	5324.2	5438.3	5454.4	5549.3	5518.7	5367.6	5121.6
32.5°	5703.6	5663.4	5481.7	5358.0	5425.5	5562.1	5583.0	5734.1	5782.3	5623.2	5349.9
35°	6115.1	5988.1	5726.1	5592.7	5599.1	5742.2	5761.5	5983.3	6126.4	5857.9	5526.7
37.5°	6682.6	6619.9	6193.9	5837.0	5865.9	6083.0	6139.2	6380.4	6340.2	5986.5	5727.7
40°	7926.8	7828.8	7375.4	6521.8	6121.5	6359.5	6377.1	6505.7	6509.0	6277.5	6145.7
42.5°	9621.2	9581.0	9103.5	7764.5	6624.7	6544.3	6576.5	6793.5	7036.2	6891.6	6885.1
45°	11497.2	11476.3	10969.9	9413.8	7642.3	7150.4	7190.6	7481.5	7946.1	7978.3	8182.4
47.5°	13006.7	12997.0	12706.1	11254.4	9200.0	8177.6	8190.5	8499.1	9315.7	9719.2	10045.6
50°	14382.7	14429.3	14199.5	13246.2	11322.0	9786.7	9756.2	9962.0	11273.7	11934.4	12339.5
52.5°	16295.7	16361.6	15717.0	15104.5	13548.4	11783.3	11759.2	11974.6	13627.2	14122.3	14194.6
55°	17985.2	17872.7	17363.1	17186.3	16263.6	14249.3	14242.9	14432.6	15903.5	16114.1	16247.5
57.5°	18731.1	18687.7	18933.7	19338.8	19107.3	17163.8	17149.3	17004.6	17940.2	17962.7	18372.7
60°	19202.2	19255.2	20009.1	21258.2	21835.3	20300.1	20206.9	19324.3	19885.4	19835.5	20274.4
62.5°	18848.5	18953.0	20309.8	22391.5	23876.9	23037.8	22905.9	21449.5	21547.6	21375.6	21783.9
65°	16970.9	17133.2	19356.5	22177.7	24889.7	25177.4	25044.0	23325.5	22867.4	22584.4	22357.8
67.5°	13779.9	13876.4	16197.6	20317.8	24433.1	26453.8	26426.5	24970.0	23864.0	22380.3	20621.6
69°	11387.9	11482.7	13717.2	18359.8	23428.4	26727.1	26780.1	25497.3	23674.4	21139.2	18271.4
70°	9645.3	9746.6	11828.3	16681.5	22262.9	26600.1	26694.9	25447.5	23131.0	19702.1	16208.9
72.5°	5059.0	5145.8	7282.2	11492.4	18149.2	24425.1	24712.8	23296.6	19607.3	14308.8	9584.2
75°	1589.9	1639.7	2843.8	6007.4	12426.3	18991.6	19057.5	18274.6	13923.0	7870.6	3991.5
77.5°	606.0	591.6	946.8	2213.6	6282.3	11958.5	12362.0	11420.0	7306.3	2782.7	921.1
80°	326.3	327.9	491.9	916.3	2687.8	6145.7	6486.5	5534.8	2596.2	868.1	212.2
82.5°	141.5	147.9	276.5	485.5	1234.6	2266.6	2437.0	2028.7	991.9	583.5	78.8
85°	30.5	33.8	133.4	263.6	503.2	636.6	667.1	657.5	631.8	453.3	30.5
87.5°	0.0	0.0	59.5	94.8	127.0	144.7	127.0	165.6	348.8	305.4	16.1
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°	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3	3435.3
2.5°	3438.5	3409.6	3359.8	3305.1	3266.5	3226.3	3194.2	3179.7	3163.7	3152.4	3166.9
5°	3432.1	3375.8	3279.4	3186.2	3118.6	3064.0	3019.0	3001.3	2983.6	2970.7	2969.1
7.5°	3488.4	3409.6	3261.7	3125.1	3020.6	2946.6	2885.5	2859.8	2838.9	2829.3	2821.2
10°	3596.1	3494.8	3297.1	3118.6	2983.6	2858.2	2726.4	2625.1	2559.2	2528.7	2517.4
12.5°	3735.9	3608.9	3364.6	3152.4	2956.3	2715.1	2435.4	2194.3	2038.4	1986.9	1956.4
15°	3899.9	3742.4	3453.0	3195.8	2856.6	2416.1	1941.9	1626.8	1482.2	1453.2	1421.1
17.5°	4057.4	3883.8	3559.1	3203.8	2638.0	1930.7	1422.7	1208.9	1152.6	1171.9	1176.7
20°	4195.7	4023.7	3663.6	3133.1	2240.9	1448.4	1101.2	1048.1	1069.0	1106.0	1112.4
22.5°	4335.6	4158.7	3760.1	2946.6	1732.9	1099.6	991.9	1004.7	1025.6	1062.6	1069.0
25°	4506.0	4322.7	3850.1	2604.2	1300.5	935.6	942.0	961.3	982.2	1016.0	1019.2
27.5°	4702.1	4530.1	3909.6	2158.9	964.5	860.0	880.9	909.9	930.8	962.9	969.4
30°	4962.5	4803.4	3928.8	1697.6	808.6	792.5	802.2	837.5	868.1	897.0	901.8
32.5°	5206.8	5073.4	3864.5	1281.2	749.1	729.8	729.8	750.7	786.1	813.4	819.8
35°	5431.9	5345.1	3658.8	937.2	704.1	672.0	655.9	655.9	678.4	700.9	707.3
37.5°	5729.3	5726.1	3326.0	747.5	660.7	623.7	590.0	564.2	556.2	561.0	564.2
40°	6238.9	6243.7	2892.0	670.3	623.7	573.9	522.5	475.8	432.4	418.0	416.4
42.5°	7034.6	6962.3	2437.0	633.4	591.6	522.5	445.3	382.6	315.1	294.2	292.6
45°	8298.2	7868.9	1954.8	599.6	557.8	464.6	368.1	282.9	228.3	212.2	212.2
47.5°	10138.8	9060.1	1514.3	562.6	512.8	398.7	278.1	204.2	167.2	159.1	160.8
50°	12042.1	10227.2	1160.6	516.0	458.2	329.5	205.8	147.9	127.0	127.0	128.6
52.5°	13730.1	11082.4	905.0	466.2	390.6	258.8	155.9	115.7	106.1	104.5	106.1
55°	15310.3	11633.8	692.9	408.3	310.3	192.9	119.0	94.8	88.4	85.2	83.6
57.5°	16834.2	11907.1	519.2	329.5	225.1	139.9	94.8	80.4	73.9	69.1	67.5
60°	17848.6	11685.3	356.9	242.7	155.9	101.3	78.8	69.1	61.1	56.3	54.7
62.5°	18420.9	11079.2	229.9	175.2	110.9	75.6	62.7	57.9	46.6	41.8	41.8
65°	18189.4	10079.3	160.8	125.4	80.4	56.3	46.6	46.6	33.8	27.3	25.7
67.5°	16118.9	8515.2	122.2	93.2	57.9	41.8	35.4	40.2	20.9	12.9	12.9
69°	13868.3	7057.1	104.5	77.2	48.2	33.8	30.5	37.0	14.5	9.6	8.0
70°	12053.4	6087.8	94.8	67.5	40.2	28.9	27.3	35.4	14.5	8.0	6.4
72.5°	7211.5	3395.1	72.3	48.2	25.7	22.5	22.5	40.2	14.5	8.0	6.4
75°	2914.5	1196.0	53.0	33.8	19.3	19.3	27.3	51.4	12.9	6.4	4.8
77.5°	660.7	262.0	30.5	20.9	12.9	19.3	32.2	40.2	8.0	3.2	0.0
80°	160.8	64.3	19.3	12.9	8.0	14.5	24.1	22.5	1.6	0.0	0.0
82.5°	53.0	22.5	8.0	6.4	1.6	4.8	11.3	6.4	0.0	0.0	0.0
85°	22.5	12.9	3.2	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.5	4.8	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)