

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: P322674

Luminaire Tested: **GAN-SA0A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322674
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-SA0A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA 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: 24081 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

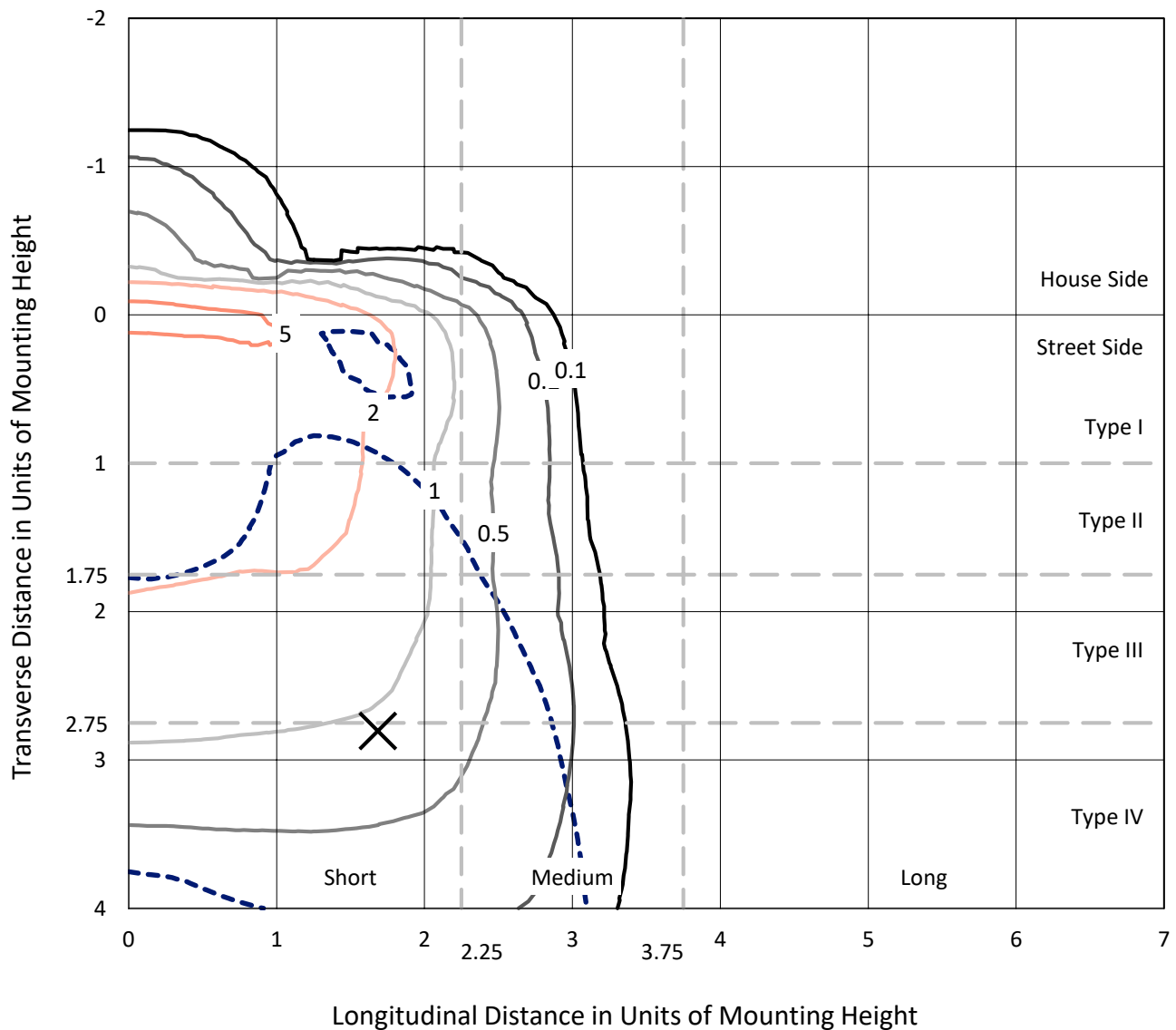
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

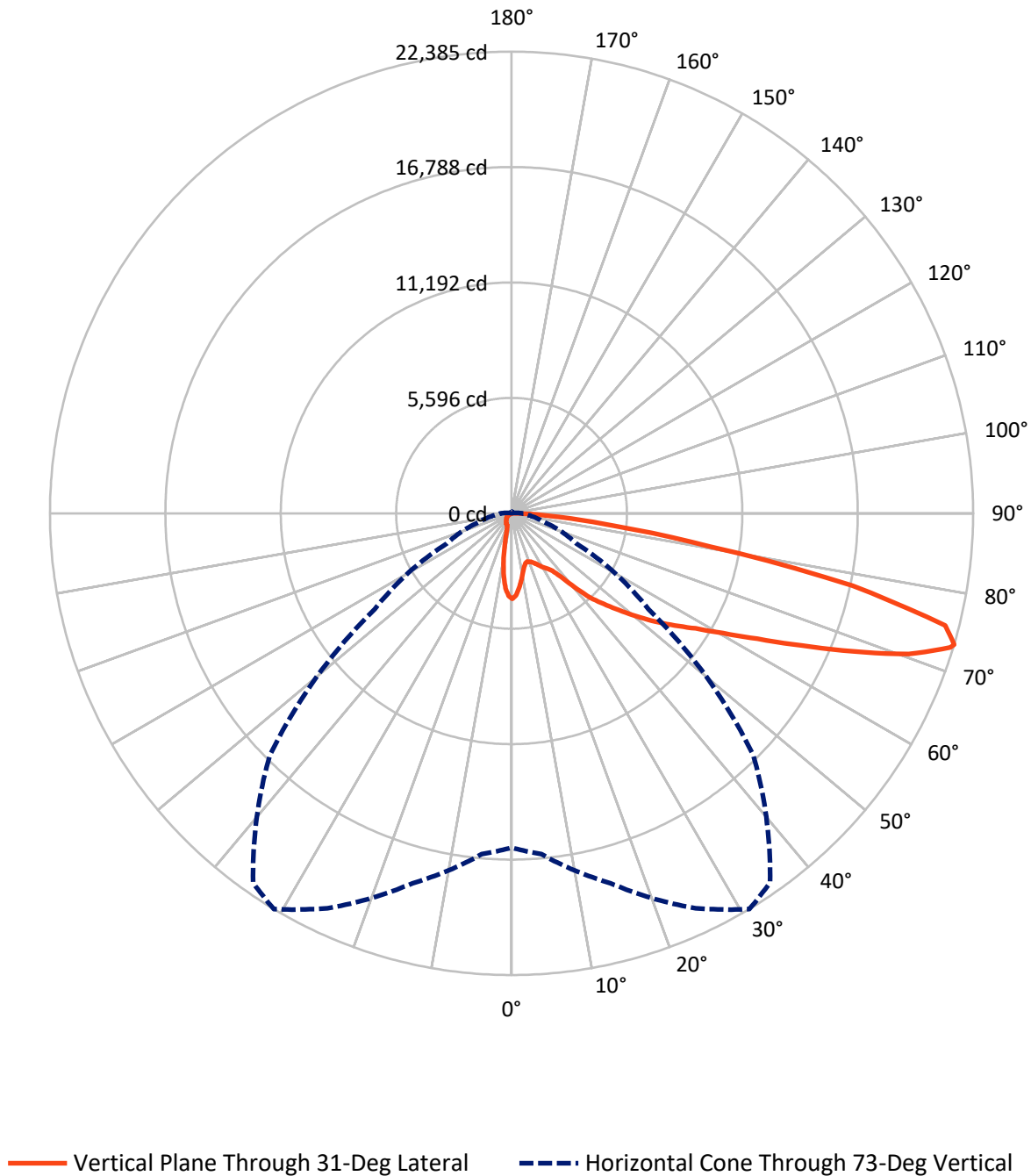
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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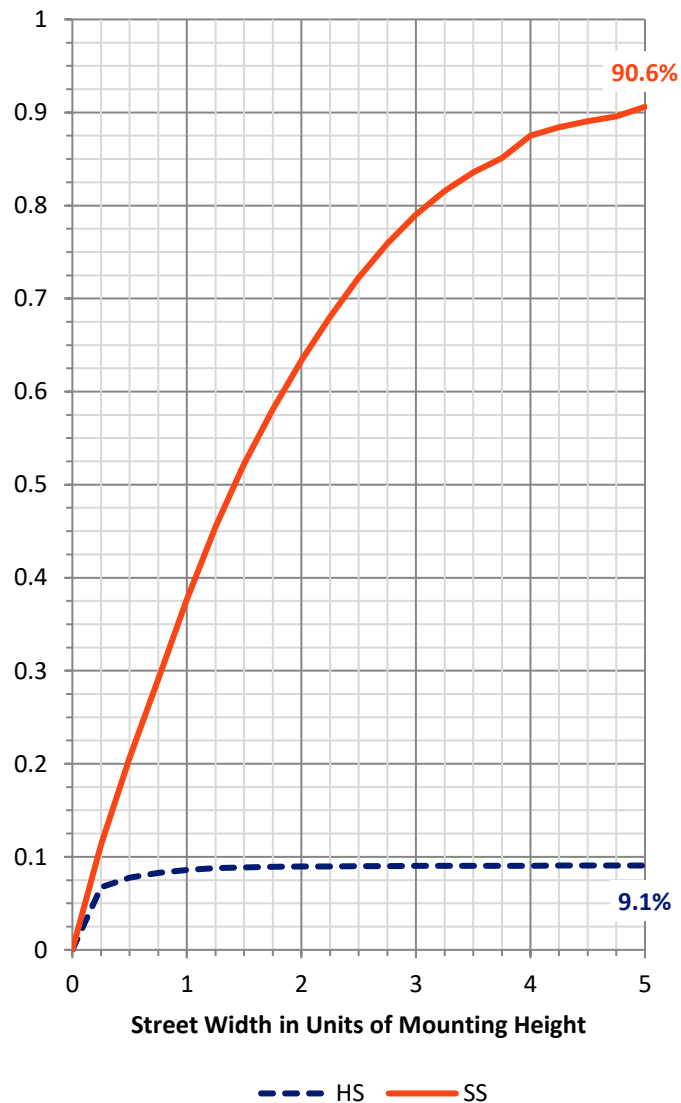
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.1	0.0	2195.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21885.9	0.0	21885.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	24081.0	0.0	24081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	1.4
10°-20°	745.9	3.1
20°-30°	1117.6	4.6
30°-40°	1778.1	7.4
40°-50°	3175.1	13.2
50°-60°	4926.9	20.5
60°-70°	6549.6	27.2
70°-80°	4926.6	20.5
80°-90°	517.7	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°	24081.0	100.0
0°-180°	24081.0	100.0

Coefficient of Utilization



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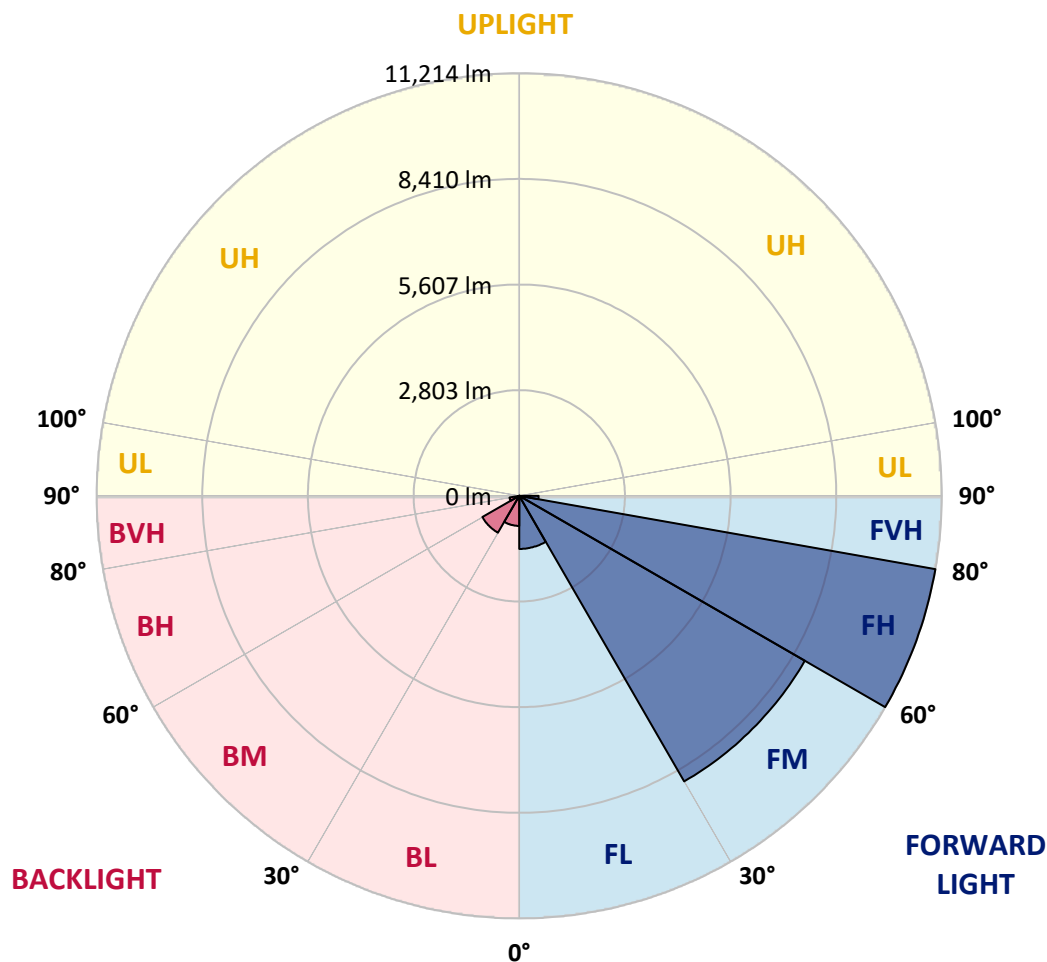
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1408.8	5.9			
FM	(30°-60°)	8750.2	36.3			
FH	(60°-80°)	11213.6	46.6			G4/12000
FVH	(80°-90°)	513.3	2.1			G4/750
BL	(0°-30°)	798.2	3.3	B2/1000		
BM	(30°-60°)	1129.9	4.7	B2/2500		
BH	(60°-80°)	262.6	1.1	B1/500		G1/500
BVH	(80°-90°)	4.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2
2.5°	3926.4	3942.9	3960.5	3964.1	3993.5	3994.7	4037.1	4068.9	4100.8	4131.4	4142.0
5°	3523.4	3550.5	3582.3	3614.1	3676.5	3701.3	3805.0	3911.0	4012.4	4109.0	4156.1
7.5°	3093.2	3123.9	3168.7	3247.6	3317.1	3365.5	3529.2	3717.8	3906.3	4084.3	4186.8
10°	2700.8	2729.1	2776.3	2859.9	2967.2	3033.2	3253.5	3515.1	3792.0	4061.9	4232.7
12.5°	2451.0	2466.4	2492.3	2581.8	2678.5	2752.7	3011.9	3336.0	3697.8	4060.7	4307.0
15°	2405.1	2409.8	2388.6	2428.6	2504.1	2575.9	2838.7	3191.1	3625.9	4079.6	4403.6
17.5°	2478.1	2475.8	2405.1	2400.4	2460.5	2519.4	2753.9	3090.9	3575.2	4123.2	4528.5
20°	2588.9	2580.7	2458.1	2435.7	2499.3	2554.7	2748.0	3053.2	3556.4	4196.2	4680.5
22.5°	2736.2	2722.1	2530.0	2506.4	2574.8	2632.5	2821.0	3089.7	3572.8	4294.0	4857.3
25°	2918.8	2897.6	2653.7	2627.8	2697.3	2755.1	2951.8	3194.6	3622.3	4413.0	5081.2
27.5°	3125.1	3094.4	2851.7	2784.5	2863.5	2923.6	3126.2	3354.8	3700.1	4539.1	5355.7
30°	3319.5	3279.4	3060.3	2949.5	3046.1	3113.3	3314.8	3545.7	3825.0	4733.6	5731.6
32.5°	3515.1	3470.3	3246.4	3114.5	3201.7	3274.7	3509.2	3808.5	4059.5	5030.5	6231.3
35°	3965.2	3918.1	3643.6	3425.6	3424.4	3465.6	3781.4	4167.9	4369.4	5444.1	6827.5
37.5°	4722.9	4695.8	4434.2	4020.6	3909.9	3863.9	4152.6	4596.9	4814.9	6013.3	7500.4
40°	5552.5	5529.0	5235.5	4860.8	4692.3	4579.2	4685.2	5194.3	5444.1	6708.5	8187.4
42.5°	6489.3	6377.4	5854.2	5742.2	5591.4	5505.4	5409.9	5930.8	6217.1	7465.0	8868.5
45°	7340.1	7151.6	6472.8	6303.2	6269.0	6290.2	6343.2	6920.6	7086.8	8364.1	9547.2
47.5°	7846.8	7698.4	7177.5	7014.9	7005.5	7145.7	7546.3	8038.9	7952.9	9147.8	10144.7
50°	8328.8	8194.5	7762.0	7802.1	7845.7	8036.6	8912.1	9189.0	8743.6	9858.3	10692.6
52.5°	8718.8	8513.8	8287.5	8512.6	8727.1	9034.6	10321.4	10221.3	9304.5	10424.0	11161.6
55°	8943.9	8850.8	8960.4	9186.7	9589.7	10089.3	11651.8	11080.3	9714.6	10940.1	11473.9
57.5°	9768.8	9586.1	9804.1	9999.7	10525.3	11224.1	12791.3	11720.2	10010.3	11259.4	11545.8
60°	10766.9	10619.6	10748.0	11073.2	11782.6	12604.0	13856.6	12242.2	10164.7	11464.5	11359.6
62.5°	12355.3	12160.9	12080.8	12444.9	13385.2	14282.0	14664.9	12604.0	10130.5	11373.7	10720.9
65°	14483.5	14282.0	13923.7	14253.7	15449.7	16082.5	15568.8	12680.6	9894.9	10639.6	9106.5
67.5°	16663.5	16517.4	16211.0	16767.2	17846.6	18050.4	16524.4	12494.4	9136.0	8626.9	6434.0
70°	18103.5	18041.0	18240.1	19470.4	20433.1	20374.2	17401.1	11493.9	7121.0	5305.1	3182.8
72.5°	17065.3	17364.6	18835.2	21065.9	22241.9	21761.2	16951.0	8826.1	4070.1	2041.0	920.3
73°	16205.1	16588.1	18567.7	21126.0	22384.5	21857.8	16572.7	8101.4	3469.2	1610.8	697.6
75°	11273.6	11743.7	15372.0	19675.4	21717.6	20825.5	13814.2	4958.6	1607.3	714.1	281.6
77.5°	5473.6	5821.2	8464.3	14216.0	16889.7	16271.1	8599.8	1847.7	725.9	446.6	129.6
80°	2043.3	2271.9	3674.2	7235.3	9760.5	10016.2	3782.6	698.8	483.1	359.4	66.0
82.5°	535.0	596.3	1355.1	3226.4	5002.2	5235.5	1192.5	352.3	353.5	295.8	40.1
85°	170.9	195.6	423.0	1448.2	2356.8	2069.2	311.1	170.9	256.9	220.4	22.4
87.5°	21.2	27.1	134.3	340.6	519.7	288.7	48.3	50.7	109.6	122.6	13.0
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°	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2	4143.2
2.5°	4152.6	4146.7	4147.9	4117.3	4097.2	4057.2	4015.9	3997.1	3977.0	3968.8	3977.0
5°	4173.8	4163.2	4132.6	4038.3	3938.1	3808.5	3687.2	3595.2	3479.8	3447.9	3480.9
7.5°	4206.8	4185.6	4096.1	3904.0	3681.3	3433.8	3155.7	2953.0	2786.9	2679.6	2718.5
10°	4255.1	4215.1	4034.8	3708.4	3310.1	2871.7	2477.0	2169.4	1951.4	1861.8	1858.3
12.5°	4336.4	4261.0	3959.4	3453.8	2856.4	2271.9	1754.6	1421.1	1244.4	1130.1	1127.7
15°	4426.0	4315.2	3863.9	3148.6	2328.5	1627.3	1130.1	876.7	762.4	725.9	721.2
17.5°	4535.6	4377.7	3740.2	2772.7	1775.8	1078.2	737.7	664.6	659.9	656.4	656.4
20°	4673.5	4451.9	3581.1	2342.6	1259.7	720.0	626.9	631.6	634.0	629.3	630.4
22.5°	4833.7	4527.3	3391.4	1880.7	852.0	602.2	599.8	605.7	608.0	605.7	606.9
25°	5019.9	4614.5	3160.4	1396.4	615.1	571.5	577.4	585.7	591.5	591.5	591.5
27.5°	5250.9	4720.6	2882.3	974.5	531.4	539.7	556.2	571.5	579.8	582.1	582.1
30°	5551.3	4852.6	2548.8	668.1	483.1	497.3	527.9	557.4	572.7	575.0	576.2
32.5°	5930.8	5001.0	2162.3	493.7	441.9	452.5	485.5	535.0	564.4	569.2	569.2
35°	6365.6	5173.1	1746.4	430.1	412.4	416.0	441.9	498.5	550.3	563.3	564.4
37.5°	6841.7	5342.8	1328.0	401.8	387.7	387.7	406.5	454.9	516.1	556.2	560.9
40°	7285.9	5445.3	930.9	379.4	365.3	365.3	381.8	417.1	474.9	535.0	547.9
42.5°	7696.0	5480.6	648.1	358.2	344.1	347.6	361.8	390.0	433.6	493.7	505.5
45°	8117.9	5474.8	472.5	333.5	322.9	333.5	344.1	365.3	397.1	431.3	433.6
47.5°	8436.0	5425.3	374.7	309.9	302.8	317.0	326.4	340.6	358.2	355.9	355.9
50°	8734.2	5305.1	301.7	278.1	282.8	299.3	304.0	308.7	309.9	287.5	285.2
52.5°	8960.4	5117.7	241.6	243.9	262.8	279.3	274.6	267.5	255.7	228.6	223.9
55°	9035.8	4757.1	189.7	201.5	233.3	254.5	236.9	221.5	199.1	176.8	172.0
57.5°	8899.1	4291.7	154.4	156.7	196.8	214.5	194.4	176.8	152.0	133.2	129.6
60°	8609.2	3774.4	127.3	117.8	152.0	167.3	154.4	136.7	114.3	100.2	99.0
62.5°	8034.2	3222.9	104.9	91.9	115.5	128.4	120.2	107.2	88.4	79.0	77.8
65°	6825.2	2578.3	84.8	74.2	89.6	100.2	93.1	83.7	69.5	62.5	61.3
67.5°	4764.2	1742.8	69.5	61.3	70.7	79.0	73.1	68.3	55.4	54.2	55.4
70°	2297.8	840.2	57.7	49.5	55.4	61.3	58.9	55.4	53.0	61.3	70.7
72.5°	658.7	281.6	46.0	41.2	44.8	48.3	50.7	49.5	57.7	74.2	86.0
73°	506.7	227.4	43.6	38.9	42.4	47.1	49.5	48.3	58.9	75.4	86.0
75°	216.8	109.6	33.0	31.8	35.4	41.2	43.6	43.6	58.9	76.6	82.5
77.5°	97.8	58.9	21.2	24.7	30.6	33.0	36.5	36.5	47.1	58.9	58.9
80°	55.4	31.8	16.5	18.9	22.4	22.4	22.4	20.0	21.2	23.6	25.9
82.5°	35.4	21.2	13.0	15.3	14.1	11.8	9.4	9.4	8.2	9.4	11.8
85°	20.0	11.8	11.8	9.4	5.9	4.7	5.9	4.7	1.2	0.0	1.2
87.5°	11.8	7.1	3.5	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)