

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: P322472

Luminaire Tested: **GAN-SA8A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322472
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-SA8A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 22180 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

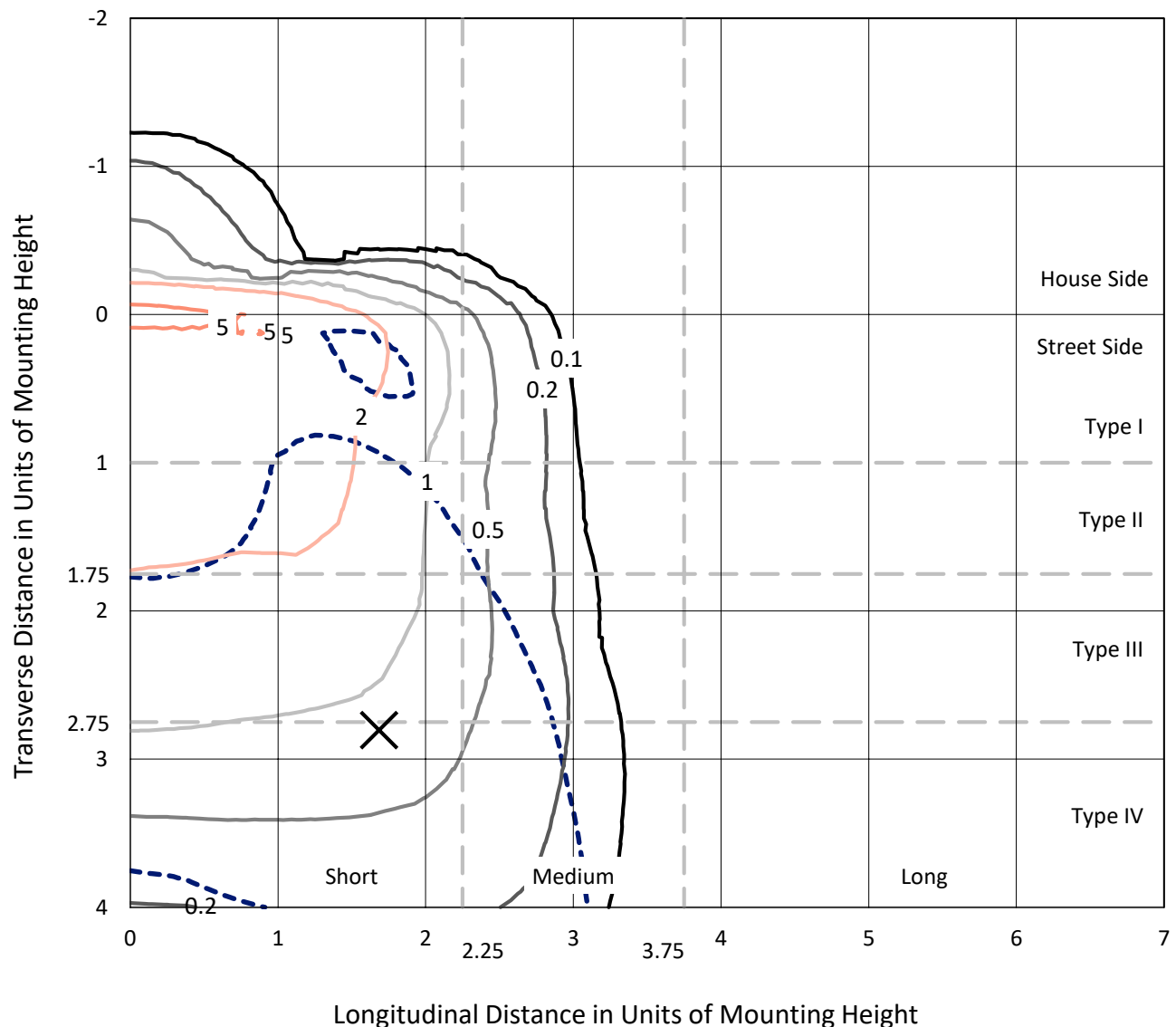
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

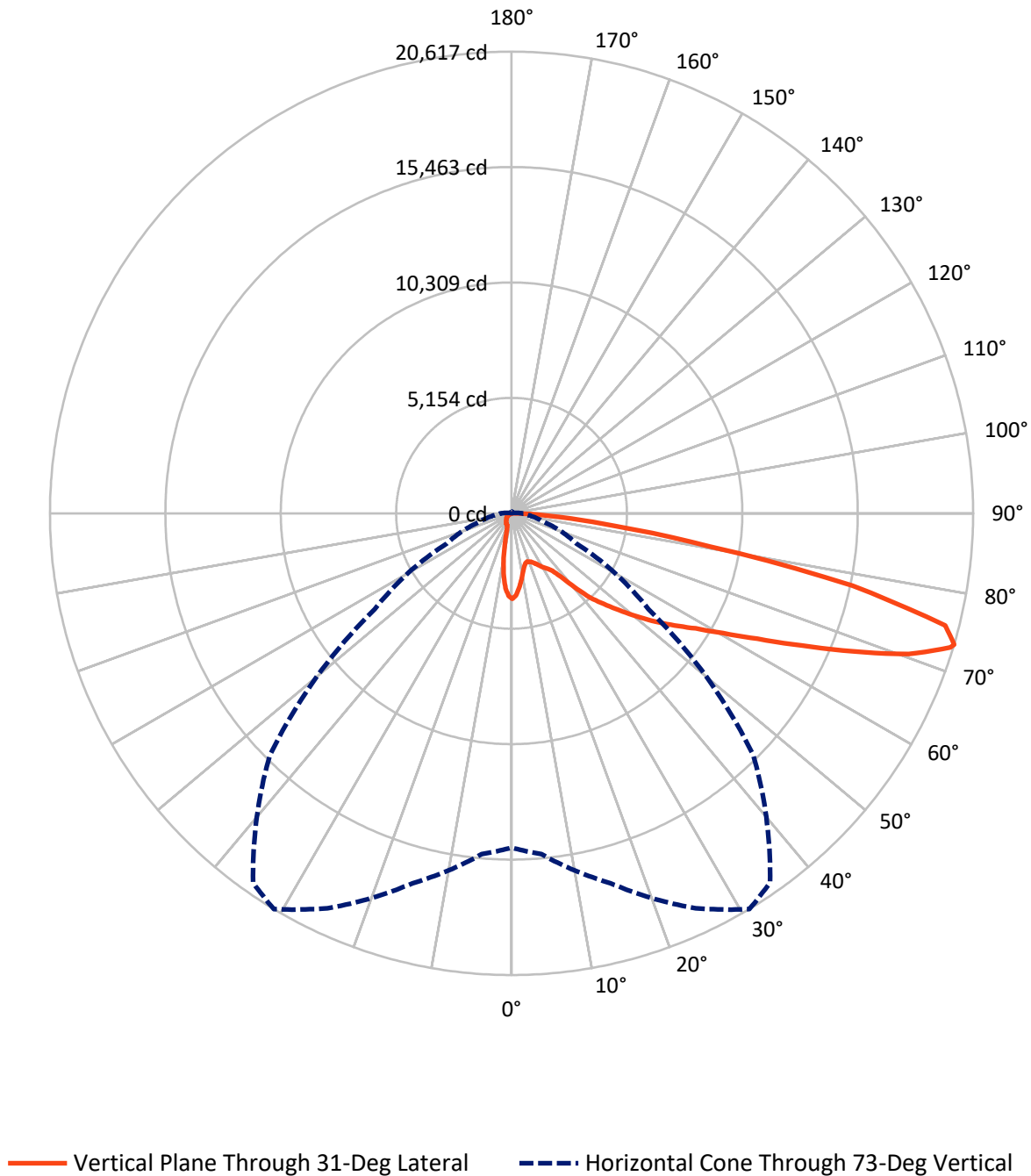
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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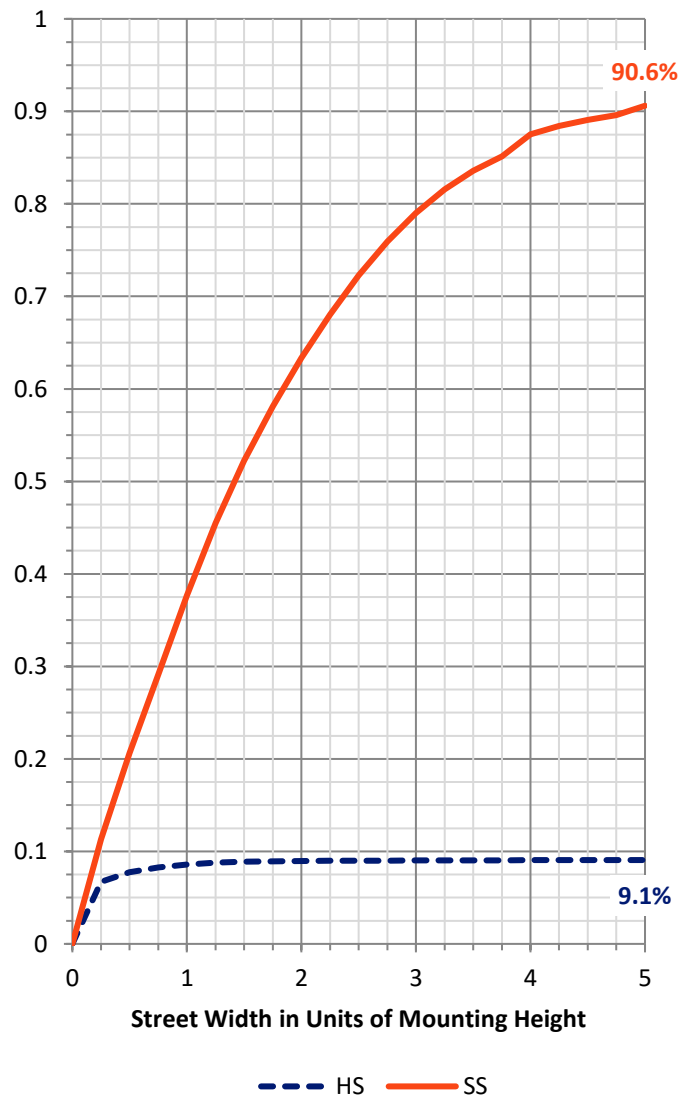
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.8	0.0	2021.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	20158.2	0.0	20158.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	22180.0	0.0	22180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	1.4
10°-20°	687.0	3.1
20°-30°	1029.3	4.6
30°-40°	1637.7	7.4
40°-50°	2924.5	13.2
50°-60°	4537.9	20.5
60°-70°	6032.6	27.2
70°-80°	4537.7	20.5
80°-90°	476.8	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°	22180.0	100.0
0°-180°	22180.0	100.0

Coefficient of Utilization



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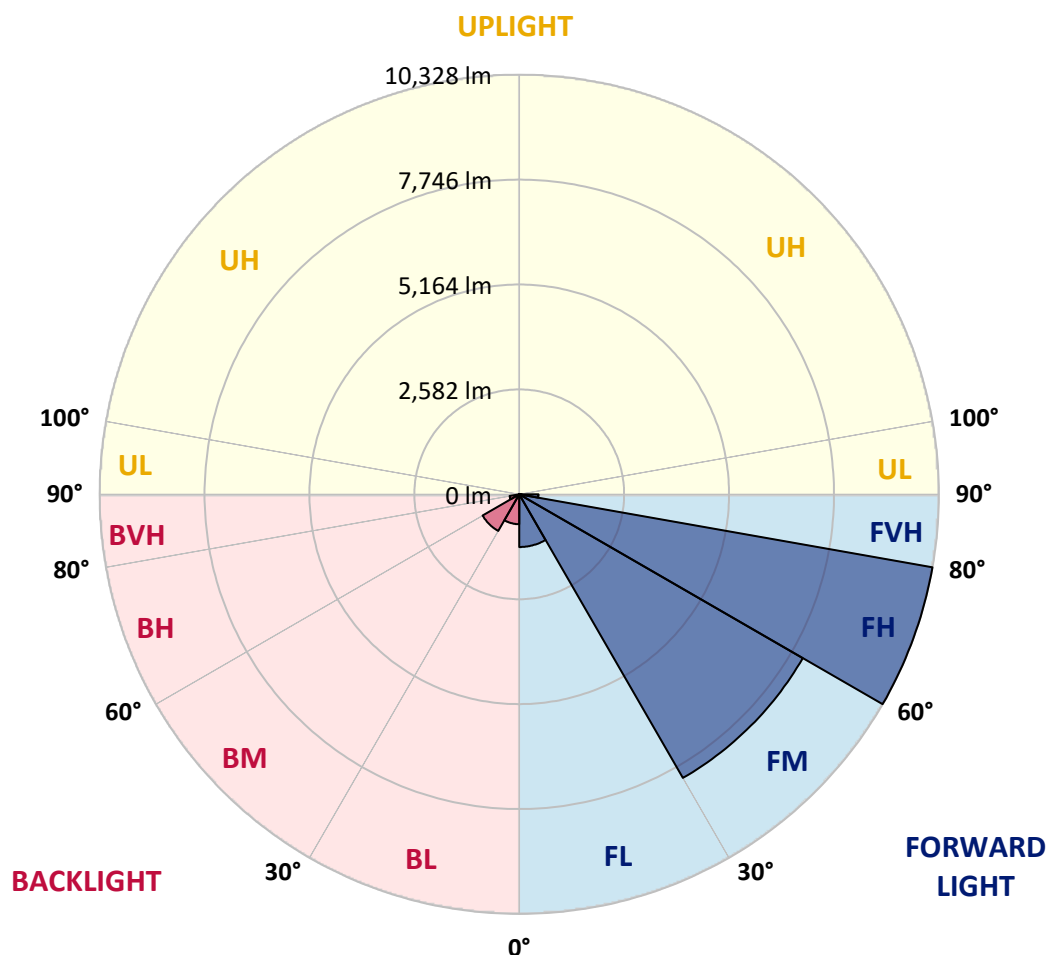
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.6	5.9			
FM	(30°-60°)	8059.4	36.3			
FH	(60°-80°)	10328.4	46.6			G4/12000
FVH	(80°-90°)	472.8	2.1			G3/500
BL	(0°-30°)	735.2	3.3	B2/1000		
BM	(30°-60°)	1040.7	4.7	B2/2500		
BH	(60°-80°)	241.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1
2.5°	3616.4	3631.6	3647.9	3651.1	3678.3	3679.4	3718.4	3747.7	3777.0	3805.3	3815.0
5°	3245.2	3270.2	3299.5	3328.8	3386.3	3409.1	3504.6	3602.3	3695.6	3784.6	3828.1
7.5°	2849.1	2877.3	2918.5	2991.2	3055.3	3099.8	3250.6	3424.3	3598.0	3761.8	3856.3
10°	2487.6	2513.7	2557.1	2634.2	2732.9	2793.7	2996.7	3237.6	3492.7	3741.2	3898.6
12.5°	2257.5	2271.7	2295.5	2378.0	2467.0	2535.4	2774.2	3072.6	3405.8	3740.1	3967.0
15°	2215.2	2219.6	2200.0	2236.9	2306.4	2372.6	2614.6	2939.1	3339.6	3757.5	4056.0
17.5°	2282.5	2280.3	2215.2	2210.9	2266.2	2320.5	2536.5	2846.9	3293.0	3797.7	4171.0
20°	2384.5	2376.9	2264.1	2243.4	2302.0	2353.1	2531.1	2812.2	3275.6	3865.0	4311.0
22.5°	2520.2	2507.2	2330.3	2308.6	2371.5	2424.7	2598.3	2845.8	3290.8	3955.0	4473.8
25°	2688.4	2668.9	2444.2	2420.3	2484.4	2537.6	2718.8	2942.4	3336.4	4064.7	4680.1
27.5°	2878.4	2850.1	2626.6	2564.7	2637.4	2692.8	2879.5	3090.0	3408.0	4180.8	4932.9
30°	3057.5	3020.5	2818.7	2716.6	2805.6	2867.5	3053.1	3265.8	3523.1	4359.9	5279.2
32.5°	3237.6	3196.4	2990.2	2868.6	2948.9	3016.2	3232.2	3507.9	3739.1	4633.4	5739.4
35°	3652.2	3608.8	3355.9	3155.1	3154.0	3192.0	3482.9	3838.9	4024.5	5014.3	6288.6
37.5°	4350.1	4325.1	4084.2	3703.2	3601.2	3558.9	3824.8	4234.0	4434.8	5538.6	6908.3
40°	5114.2	5092.5	4822.2	4477.1	4321.9	4217.7	4315.4	4784.3	5014.3	6178.9	7541.1
42.5°	5977.1	5874.0	5392.1	5288.9	5150.0	5070.8	4982.9	5462.6	5726.3	6875.7	8168.4
45°	6760.7	6587.0	5961.9	5805.6	5774.1	5793.6	5842.5	6374.3	6527.3	7703.9	8793.6
47.5°	7227.4	7090.6	6610.9	6461.1	6452.4	6581.6	6950.6	7404.3	7325.1	8425.6	9343.8
50°	7671.3	7547.6	7149.2	7186.1	7226.3	7402.1	8208.6	8463.6	8053.3	9080.1	9848.5
52.5°	8030.6	7841.7	7633.3	7840.6	8038.2	8321.4	9506.6	9414.4	8570.0	9601.1	10280.5
55°	8237.9	8152.1	8253.1	8461.4	8832.6	9292.8	10732.0	10205.6	8947.7	10076.5	10568.1
57.5°	8997.6	8829.4	9030.2	9210.3	9694.4	10338.0	11781.5	10795.0	9220.1	10370.6	10634.3
60°	9916.9	9781.2	9899.5	10199.1	10852.5	11609.0	12762.7	11275.8	9362.3	10559.4	10462.8
62.5°	11380.0	11200.9	11127.1	11462.5	12328.6	13154.5	13507.3	11609.0	9330.8	10475.9	9874.6
65°	13340.1	13154.5	12824.6	13128.5	14230.1	14812.9	14339.7	11679.5	9113.7	9799.7	8387.6
67.5°	15348.0	15213.4	14931.3	15443.5	16437.7	16625.5	15220.0	11508.0	8414.8	7945.9	5926.0
70°	16674.3	16616.8	16800.2	17933.4	18820.1	18765.8	16027.5	10586.6	6558.8	4886.3	2931.5
72.5°	15718.1	15993.8	17348.3	19402.9	20486.1	20043.3	15612.9	8129.3	3748.8	1879.8	847.7
73°	14925.8	15278.6	17102.0	19458.3	20617.4	20132.3	15264.5	7461.8	3195.3	1483.7	642.5
75°	10383.6	10816.7	14158.5	18122.2	20003.1	19181.5	12723.6	4567.2	1480.4	657.7	259.4
77.5°	5041.5	5361.7	7796.1	13093.7	15556.4	14986.6	7920.9	1701.8	668.6	411.4	119.4
80°	1882.0	2092.6	3384.1	6664.1	8990.0	9225.5	3484.0	643.6	445.0	331.0	60.8
82.5°	492.8	549.2	1248.2	2971.7	4607.3	4822.2	1098.4	324.5	325.6	272.4	36.9
85°	157.4	180.2	389.6	1333.9	2170.7	1905.9	286.5	157.4	236.6	203.0	20.6
87.5°	19.5	25.0	123.7	313.7	478.6	265.9	44.5	46.7	100.9	112.9	11.9
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°	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1	3816.1
2.5°	3824.8	3819.4	3820.5	3792.2	3773.8	3736.9	3698.9	3681.5	3663.1	3655.5	3663.1
5°	3844.3	3834.6	3806.3	3719.5	3627.3	3507.9	3396.1	3311.4	3205.1	3175.8	3206.1
7.5°	3874.7	3855.2	3772.7	3595.8	3390.7	3162.7	2906.6	2719.9	2566.9	2468.1	2503.9
10°	3919.2	3882.3	3716.3	3415.6	3048.8	2645.0	2281.4	1998.1	1797.4	1714.9	1711.6
12.5°	3994.1	3924.7	3646.8	3181.2	2630.9	2092.6	1616.1	1308.9	1146.1	1040.9	1038.7
15°	4076.6	3974.6	3558.9	2900.1	2144.7	1498.9	1040.9	807.5	702.2	668.6	664.2
17.5°	4177.5	4032.1	3444.9	2553.8	1635.6	993.1	679.4	612.1	607.8	604.5	604.5
20°	4304.5	4100.5	3298.4	2157.7	1160.2	663.2	577.4	581.8	583.9	579.6	580.7
22.5°	4452.1	4169.9	3123.7	1732.2	784.7	554.6	552.4	557.9	560.0	557.9	559.0
25°	4623.6	4250.3	2910.9	1286.1	566.6	526.4	531.8	539.4	544.8	544.8	544.8
27.5°	4836.3	4347.9	2654.8	897.6	489.5	497.1	512.3	526.4	534.0	536.2	536.2
30°	5113.1	4469.5	2347.6	615.4	445.0	458.0	486.2	513.4	527.5	529.7	530.7
32.5°	5462.6	4606.3	1991.6	454.8	407.0	416.8	447.2	492.8	519.9	524.2	524.2
35°	5863.1	4764.7	1608.5	396.2	379.9	383.1	407.0	459.1	506.9	518.8	519.9
37.5°	6301.6	4921.0	1223.2	370.1	357.1	357.1	374.4	418.9	475.4	512.3	516.6
40°	6710.8	5015.4	857.4	349.5	336.5	336.5	351.7	384.2	437.4	492.8	504.7
42.5°	7088.5	5048.0	596.9	329.9	316.9	320.2	333.2	359.3	399.4	454.8	465.6
45°	7477.0	5042.6	435.2	307.2	297.4	307.2	316.9	336.5	365.8	397.2	399.4
47.5°	7770.1	4997.0	345.1	285.4	278.9	292.0	300.6	313.7	329.9	327.8	327.8
50°	8044.7	4886.3	277.9	256.1	260.5	275.7	280.0	284.4	285.4	264.8	262.7
52.5°	8253.1	4713.7	222.5	224.7	242.0	257.2	252.9	246.4	235.5	210.6	206.2
55°	8322.5	4381.6	174.7	185.6	214.9	234.4	218.2	204.0	183.4	162.8	158.5
57.5°	8196.6	3952.9	142.2	144.4	181.3	197.5	179.1	162.8	140.0	122.6	119.4
60°	7929.6	3476.4	117.2	108.5	140.0	154.1	142.2	125.9	105.3	92.3	91.2
62.5°	7400.0	2968.5	96.6	84.7	106.4	118.3	110.7	98.8	81.4	72.7	71.6
65°	6286.4	2374.8	78.1	68.4	82.5	92.3	85.7	77.1	64.0	57.5	56.4
67.5°	4388.1	1605.2	64.0	56.4	65.1	72.7	67.3	63.0	51.0	49.9	51.0
70°	2116.4	773.9	53.2	45.6	51.0	56.4	54.3	51.0	48.8	56.4	65.1
72.5°	606.7	259.4	42.3	38.0	41.2	44.5	46.7	45.6	53.2	68.4	79.2
73°	466.7	209.5	40.2	35.8	39.1	43.4	45.6	44.5	54.3	69.5	79.2
75°	199.7	100.9	30.4	29.3	32.6	38.0	40.2	40.2	54.3	70.5	76.0
77.5°	90.1	54.3	19.5	22.8	28.2	30.4	33.6	33.6	43.4	54.3	54.3
80°	51.0	29.3	15.2	17.4	20.6	20.6	20.6	18.5	19.5	21.7	23.9
82.5°	32.6	19.5	11.9	14.1	13.0	10.9	8.7	8.7	7.6	8.7	10.9
85°	18.5	10.9	10.9	8.7	5.4	4.3	5.4	4.3	1.1	0.0	1.1
87.5°	10.9	6.5	3.3	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)