

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: P322474

Luminaire Tested: **GAN-SA0A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322474
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-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 27394 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

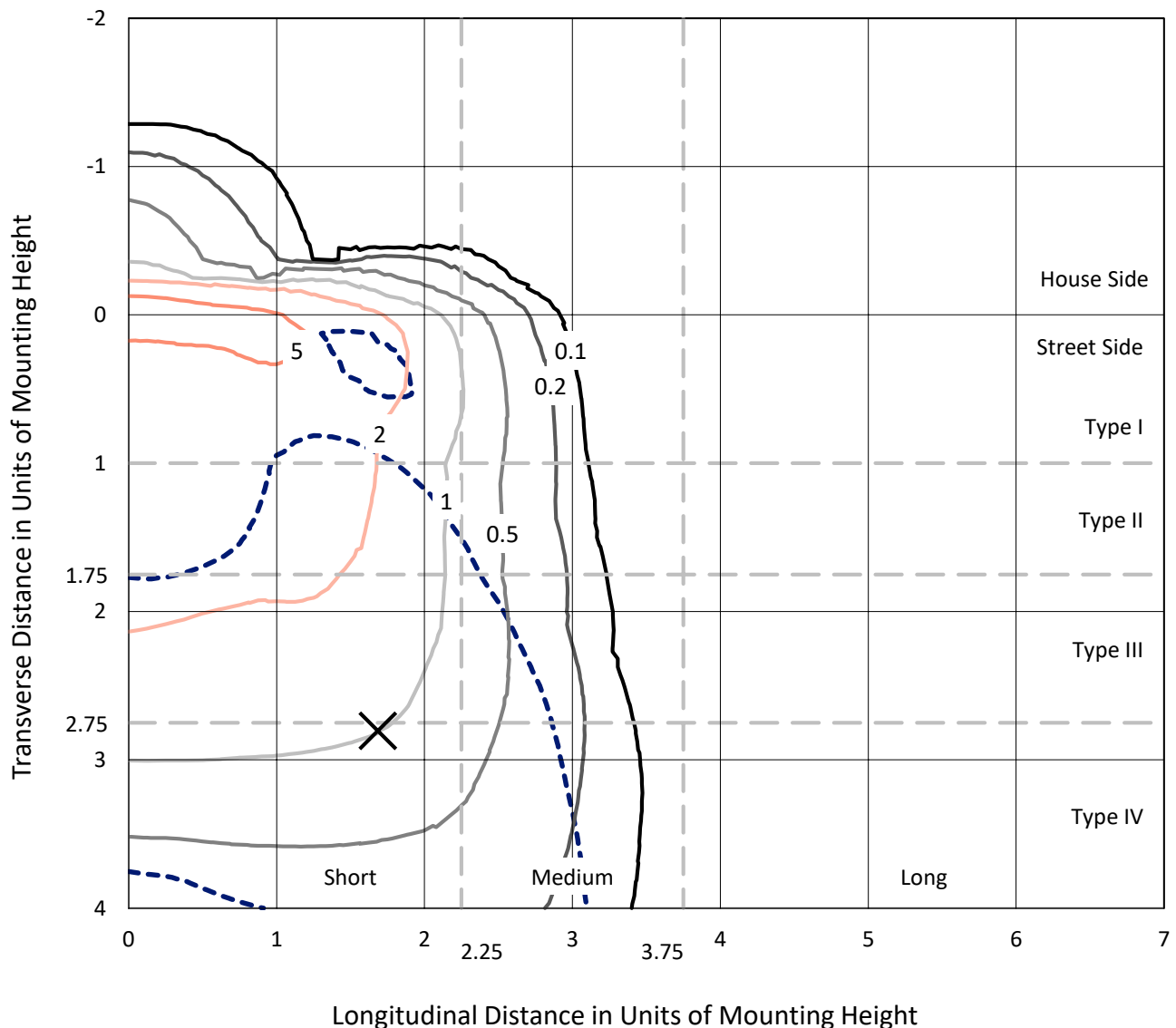
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

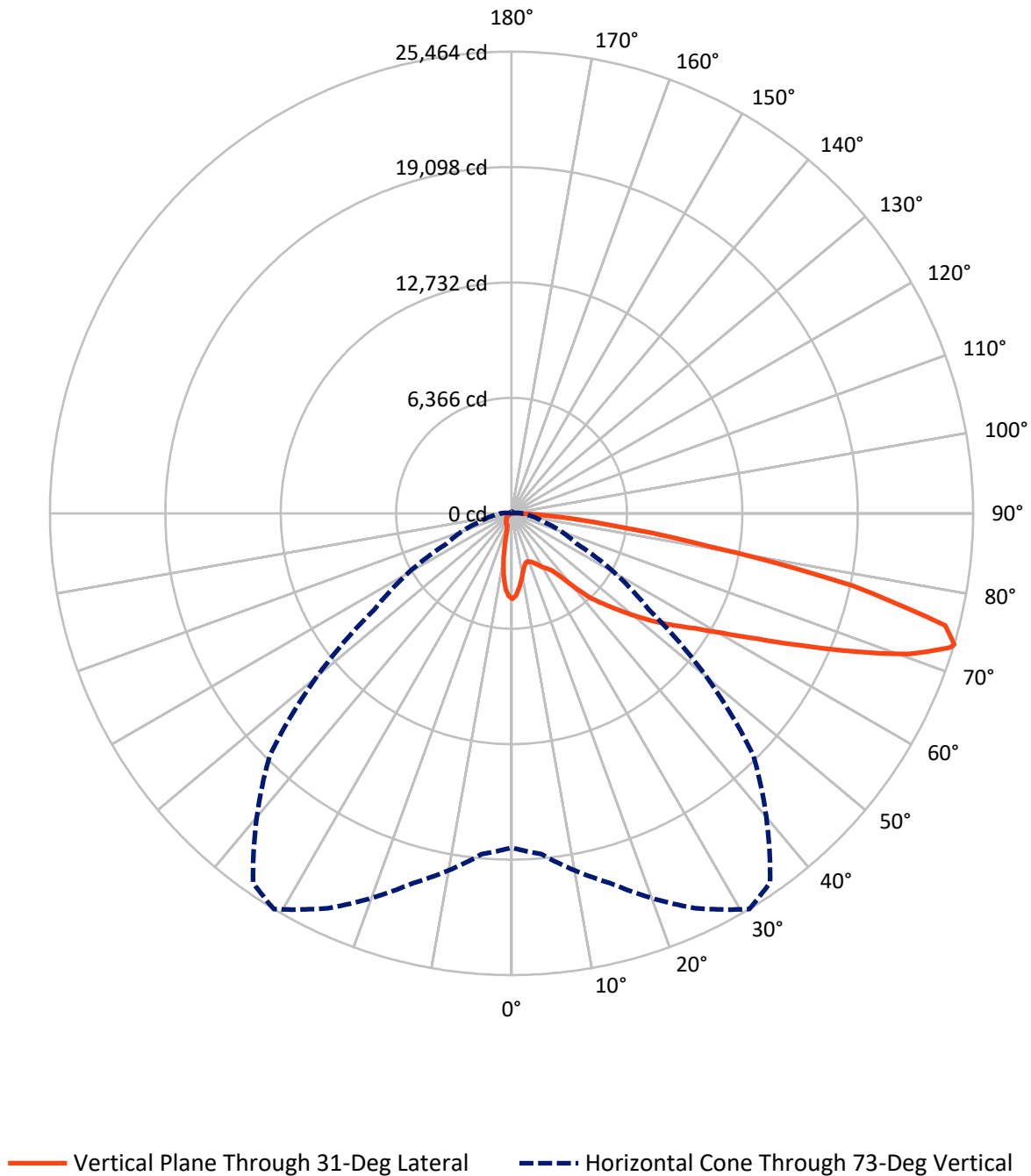
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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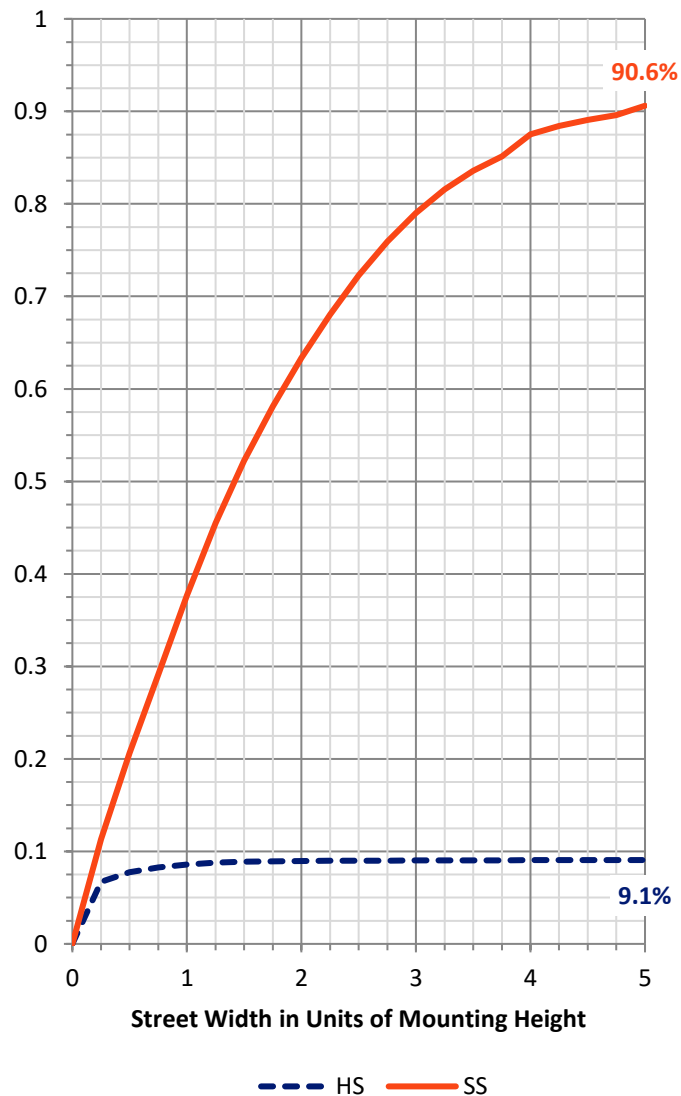
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2497.1	0.0	2497.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	24896.9	0.0	24896.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	27394.0	0.0	27394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	1.4
10°-20°	848.5	3.1
20°-30°	1271.3	4.6
30°-40°	2022.7	7.4
40°-50°	3612.0	13.2
50°-60°	5604.7	20.5
60°-70°	7450.7	27.2
70°-80°	5604.4	20.5
80°-90°	588.9	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°	27394.0	100.0
0°-180°	27394.0	100.0

Coefficient of Utilization



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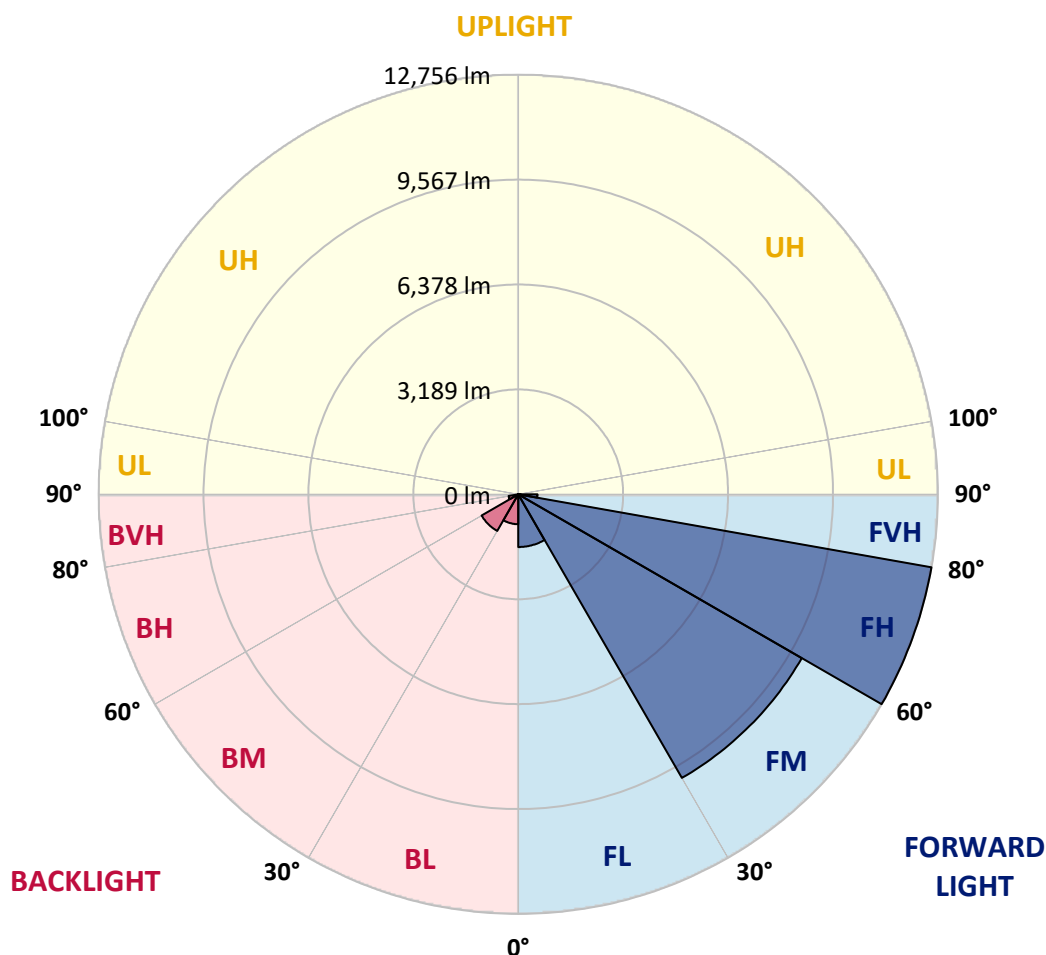
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1602.6	5.9			
FM	(30°-60°)	9954.0	36.3			
FH	(60°-80°)	12756.4	46.6			G5
FVH	(80°-90°)	584.0	2.1			G4/750
BL	(0°-30°)	908.0	3.3	B2/1000		
BM	(30°-60°)	1285.3	4.7	B2/2500		
BH	(60°-80°)	298.8	1.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
2.5°	4466.5	4485.3	4505.4	4509.4	4543.0	4544.3	4592.5	4628.7	4664.9	4699.8	4711.9
5°	4008.1	4038.9	4075.1	4111.3	4182.4	4210.5	4328.5	4449.1	4564.4	4674.3	4727.9
7.5°	3518.8	3553.7	3604.6	3694.4	3773.5	3828.5	4014.8	4229.3	4443.8	4646.2	4762.8
10°	3072.4	3104.6	3158.2	3253.4	3375.4	3450.4	3701.1	3998.7	4313.7	4620.7	4815.1
12.5°	2788.2	2805.7	2835.2	2937.0	3047.0	3131.4	3426.3	3795.0	4206.5	4619.4	4899.5
15°	2736.0	2741.3	2717.2	2762.8	2848.6	2930.3	3229.3	3630.1	4124.7	4640.8	5009.4
17.5°	2819.1	2816.4	2736.0	2730.6	2799.0	2866.0	3132.7	3516.1	4067.1	4690.4	5151.5
20°	2945.1	2935.7	2796.3	2770.8	2843.2	2906.2	3126.0	3473.2	4045.6	4773.5	5324.5
22.5°	3112.6	3096.6	2878.1	2851.2	2929.0	2994.7	3209.2	3514.8	4064.4	4884.8	5525.5
25°	3320.4	3296.3	3018.8	2989.3	3068.4	3134.1	3357.9	3634.1	4120.7	5020.2	5780.2
27.5°	3555.0	3520.1	3244.0	3167.6	3257.4	3325.8	3556.3	3816.4	4209.2	5163.6	6092.6
30°	3776.2	3730.6	3481.3	3355.3	3465.2	3541.6	3770.8	4033.6	4351.3	5384.8	6520.2
32.5°	3998.7	3947.8	3693.1	3542.9	3642.1	3725.2	3992.0	4332.5	4618.0	5722.6	7088.6
35°	4510.8	4457.2	4144.8	3896.8	3895.5	3942.4	4301.7	4741.3	4970.6	6193.1	7766.9
37.5°	5372.7	5341.9	5044.3	4573.8	4447.8	4395.5	4723.9	5229.3	5477.3	6840.6	8532.3
40°	6316.4	6289.6	5955.8	5529.6	5337.9	5209.2	5329.8	5908.9	6193.1	7631.5	9313.8
42.5°	7382.1	7254.8	6659.6	6532.3	6360.7	6262.8	6154.2	6746.7	7072.5	8492.1	10088.6
45°	8350.0	8135.5	7363.4	7170.3	7131.5	7155.6	7215.9	7872.7	8061.8	9514.9	10860.7
47.5°	8926.4	8757.5	8165.0	7980.0	7969.3	8128.8	8584.6	9144.9	9047.0	10406.3	11540.4
50°	9474.6	9321.8	8829.9	8875.4	8925.0	9142.2	10138.2	10453.2	9946.5	11214.6	12163.7
52.5°	9918.4	9685.1	9427.7	9683.8	9927.7	10277.6	11741.4	11627.5	10584.6	11858.1	12697.2
55°	10174.4	10068.5	10193.2	10450.5	10909.0	11477.4	13254.9	12604.7	11051.1	12445.2	13052.4
57.5°	11112.7	10905.0	11153.0	11375.5	11973.3	12768.3	14551.1	13332.6	11387.5	12808.5	13134.2
60°	12248.1	12080.6	12226.7	12596.7	13403.6	14338.0	15762.9	13926.4	11563.1	13041.7	12922.4
62.5°	14055.1	13833.9	13742.8	14157.0	15226.7	16246.8	16682.5	14338.0	11524.3	12938.5	12195.9
65°	16476.1	16246.8	15839.3	16214.7	17575.3	18295.1	17710.7	14425.1	11256.2	12103.4	10359.4
67.5°	18956.0	18789.8	18441.2	19074.0	20301.9	20533.8	18797.8	14213.3	10392.9	9813.8	7319.1
70°	20594.1	20523.0	20749.6	22149.1	23244.2	23177.2	19795.1	13075.2	8100.6	6034.9	3620.7
72.5°	19413.1	19753.6	21426.5	23964.1	25301.9	24755.0	19283.1	10040.3	4630.1	2321.7	1046.9
73°	18434.5	18870.2	21122.2	24032.5	25464.1	24864.9	18852.8	9215.9	3946.4	1832.5	793.6
75°	12824.6	13359.4	17486.8	22382.3	24705.4	23690.6	15714.7	5640.8	1828.4	812.3	320.4
77.5°	6226.6	6622.1	9628.8	16171.8	19213.4	18509.6	9783.0	2101.9	825.7	508.0	147.5
80°	2324.4	2584.5	4179.7	8230.7	11103.4	11394.2	4303.0	794.9	549.6	408.9	75.1
82.5°	608.6	678.3	1541.6	3670.3	5690.4	5955.8	1356.6	400.8	402.1	336.5	45.6
85°	194.4	222.5	481.2	1647.5	2681.0	2353.9	353.9	194.4	292.2	250.7	25.5
87.5°	24.1	30.8	152.8	387.4	591.2	328.4	55.0	57.6	124.7	139.4	14.7
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°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
2.5°	4723.9	4717.2	4718.6	4683.7	4660.9	4615.3	4568.4	4547.0	4524.2	4514.8	4524.2
5°	4748.0	4736.0	4701.1	4593.9	4479.9	4332.5	4194.4	4089.9	3958.5	3922.3	3959.8
7.5°	4785.6	4761.5	4659.6	4441.1	4187.7	3906.2	3589.9	3359.3	3170.3	3048.3	3092.5
10°	4840.5	4795.0	4589.9	4218.5	3765.5	3266.8	2817.7	2467.9	2219.9	2118.0	2114.0
12.5°	4933.0	4847.2	4504.1	3929.0	3249.4	2584.5	1996.0	1616.6	1415.6	1285.5	1282.9
15°	5034.9	4908.9	4395.5	3581.8	2648.8	1851.2	1285.5	997.3	867.3	825.7	820.4
17.5°	5159.6	4980.0	4254.7	3154.2	2020.1	1226.6	839.2	756.0	750.7	746.7	746.7
20°	5316.4	5064.4	4073.8	2664.9	1433.0	819.0	713.1	718.5	721.2	715.8	717.2
22.5°	5498.7	5150.2	3858.0	2139.4	969.2	685.0	682.3	689.0	691.7	689.0	690.4
25°	5710.5	5249.4	3595.2	1588.5	699.7	650.1	656.8	666.2	672.9	672.9	672.9
27.5°	5973.3	5370.0	3278.9	1108.6	604.6	613.9	632.7	650.1	659.5	662.2	662.2
30°	6315.1	5520.2	2899.5	760.1	549.6	565.7	600.5	634.1	651.5	654.2	655.5
32.5°	6746.7	5689.1	2459.8	561.7	502.7	514.8	552.3	608.6	642.1	647.5	647.5
35°	7241.4	5884.8	1986.6	489.3	469.2	473.2	502.7	567.0	626.0	640.8	642.1
37.5°	7782.9	6077.8	1510.7	457.1	441.0	441.0	462.5	517.4	587.1	632.7	638.1
40°	8288.3	6194.4	1059.0	431.6	415.6	415.6	434.3	474.5	540.2	608.6	623.3
42.5°	8754.8	6234.7	737.3	407.5	391.4	395.4	411.5	443.7	493.3	561.7	575.1
45°	9234.7	6228.0	537.5	379.4	367.3	379.4	391.4	415.6	451.7	490.6	493.3
47.5°	9596.6	6171.7	426.3	352.6	344.5	360.6	371.3	387.4	407.5	404.8	404.8
50°	9935.8	6034.9	343.2	316.4	321.7	340.5	345.8	351.2	352.6	327.1	324.4
52.5°	10193.2	5821.8	274.8	277.5	298.9	317.7	312.3	304.3	290.9	260.1	254.7
55°	10278.9	5411.6	215.8	229.2	265.4	289.5	269.4	252.0	226.5	201.1	195.7
57.5°	10123.4	4882.1	175.6	178.3	223.9	244.0	221.2	201.1	172.9	151.5	147.5
60°	9793.7	4293.6	144.8	134.0	172.9	190.4	175.6	155.5	130.0	113.9	112.6
62.5°	9139.5	3666.3	119.3	104.6	131.4	146.1	136.7	122.0	100.5	89.8	88.5
65°	7764.2	2933.0	96.5	84.5	101.9	113.9	105.9	95.2	79.1	71.0	69.7
67.5°	5419.6	1982.6	79.1	69.7	80.4	89.8	83.1	77.7	63.0	61.7	63.0
70°	2614.0	955.8	65.7	56.3	63.0	69.7	67.0	63.0	60.3	69.7	80.4
72.5°	749.3	320.4	52.3	46.9	50.9	55.0	57.6	56.3	65.7	84.5	97.9
73°	576.4	258.7	49.6	44.2	48.3	53.6	56.3	55.0	67.0	85.8	97.9
75°	246.7	124.7	37.5	36.2	40.2	46.9	49.6	49.6	67.0	87.1	93.8
77.5°	111.3	67.0	24.1	28.2	34.9	37.5	41.6	41.6	53.6	67.0	67.0
80°	63.0	36.2	18.8	21.4	25.5	25.5	25.5	22.8	24.1	26.8	29.5
82.5°	40.2	24.1	14.7	17.4	16.1	13.4	10.7	10.7	9.4	10.7	13.4
85°	22.8	13.4	13.4	10.7	6.7	5.4	6.7	5.4	1.3	0.0	1.3
87.5°	13.4	8.0	4.0	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)