

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: P322162

Luminaire Tested: **GAN-SA8B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27911 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

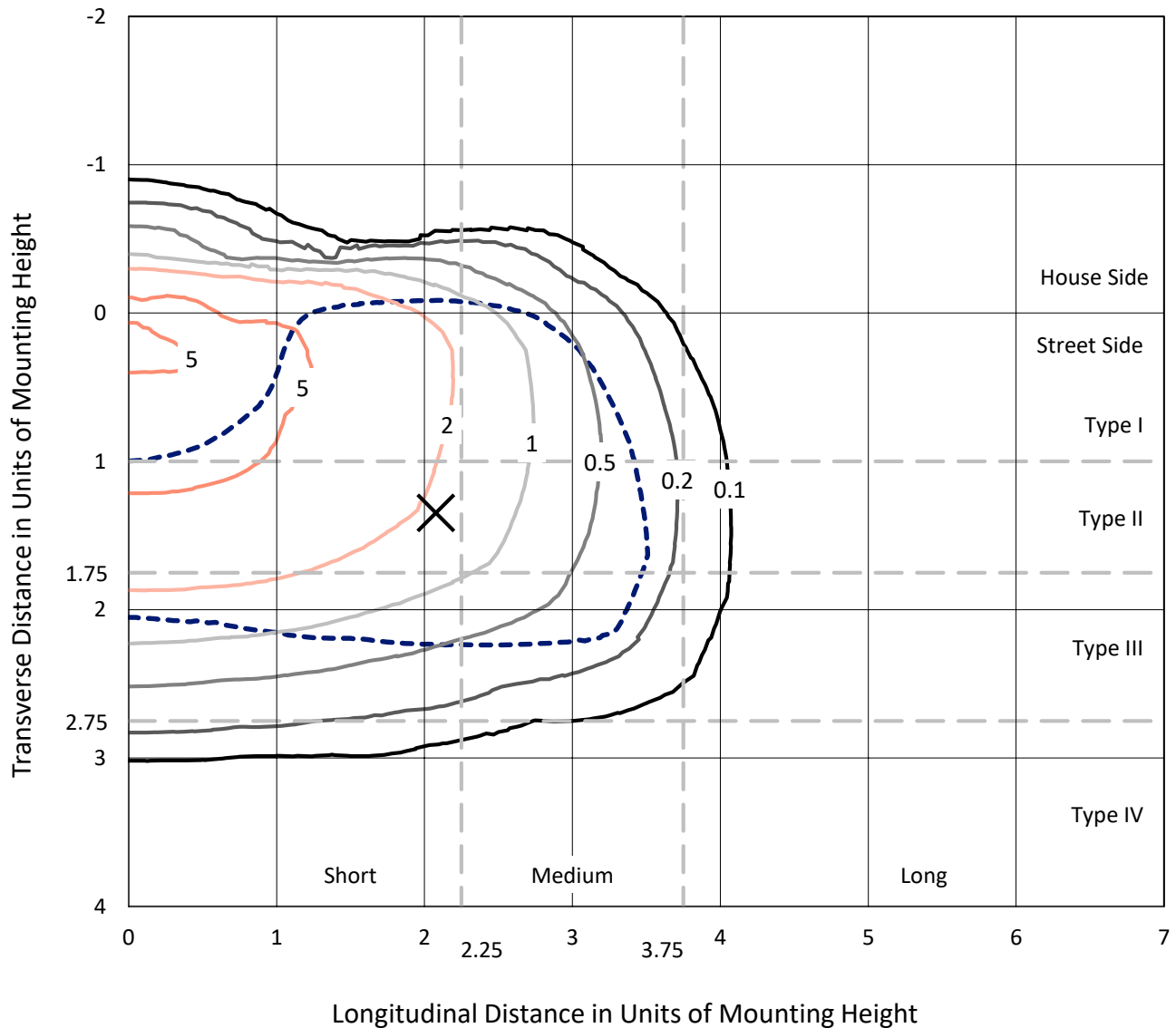


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Iso-Footcandle Lines of Horizontal Illumination

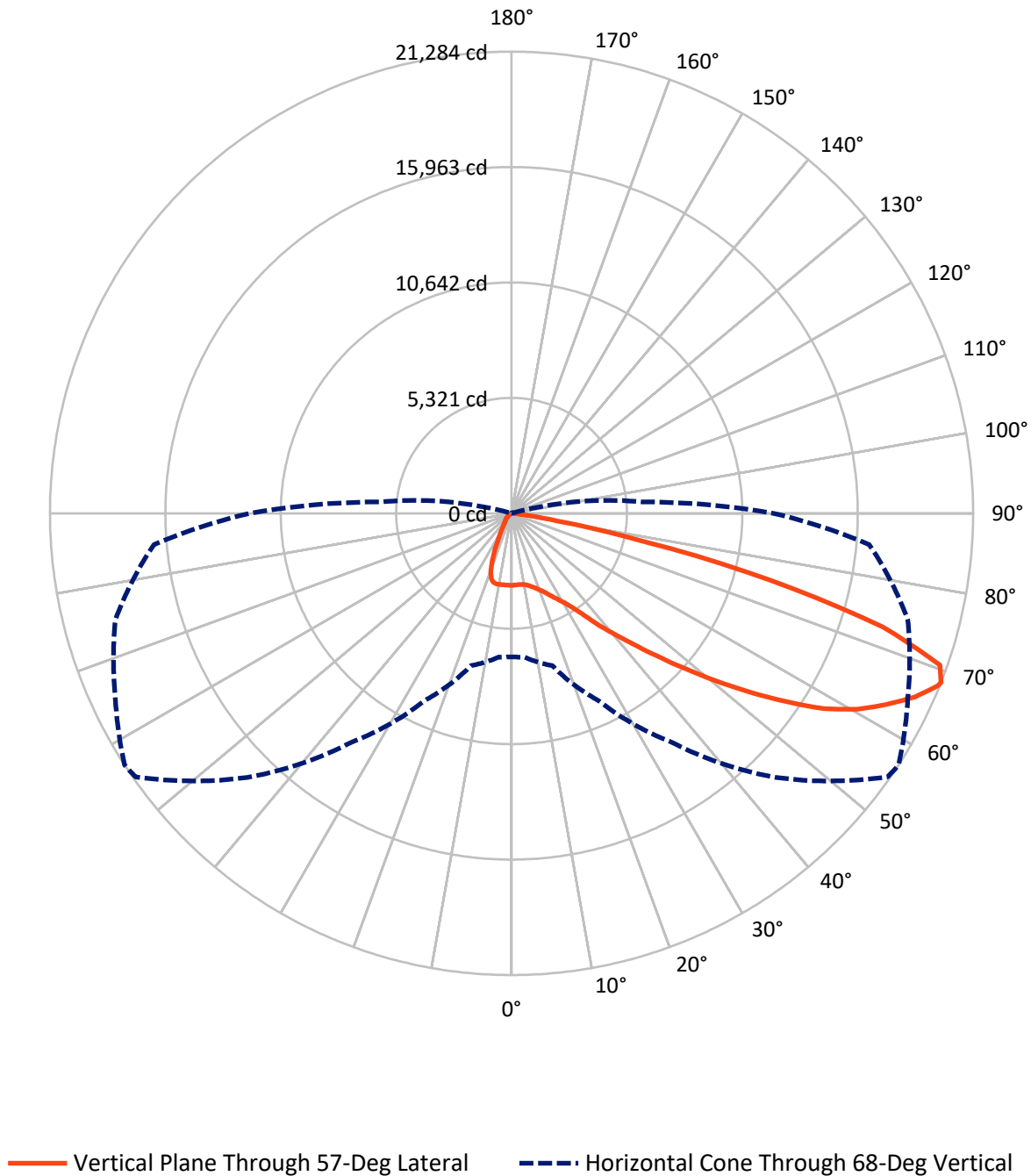
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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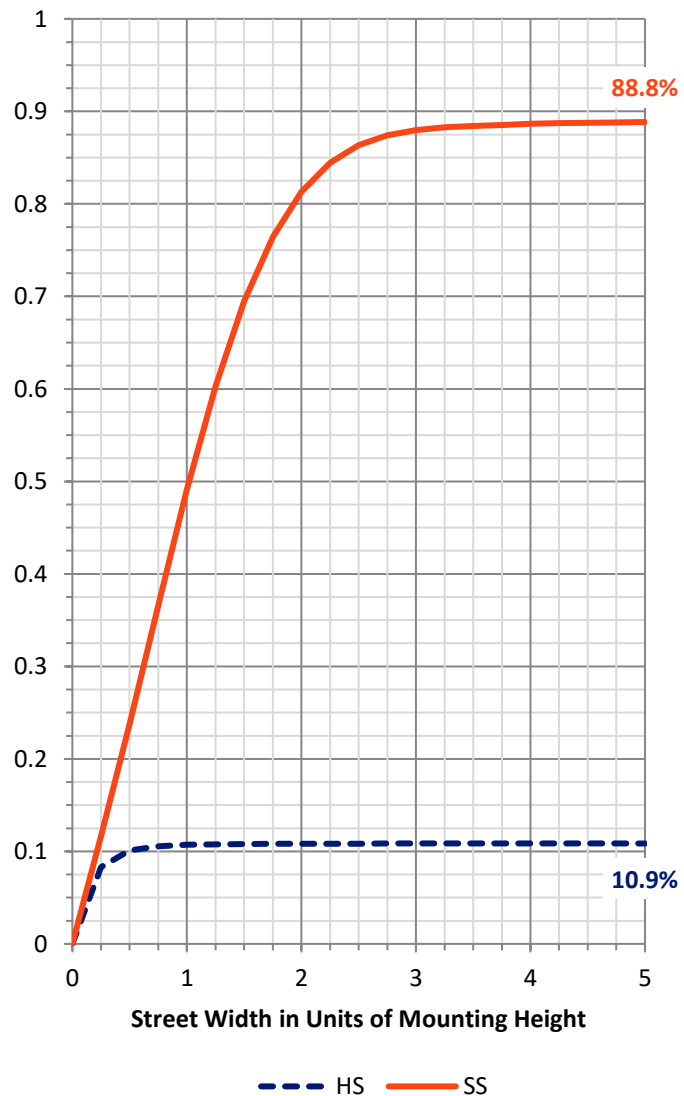
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3060.6	0.0	3060.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	24850.4	0.0	24850.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	27911.0	0.0	27911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	1.1
10°-20°	860.1	3.1
20°-30°	1483.7	5.3
30°-40°	2560.9	9.2
40°-50°	4380.4	15.7
50°-60°	7008.2	25.1
60°-70°	8097.2	29.0
70°-80°	3094.1	11.1
80°-90°	116.0	0.4
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°	27911.0	100.0
0°-180°	27911.0	100.0

Coefficient of Utilization



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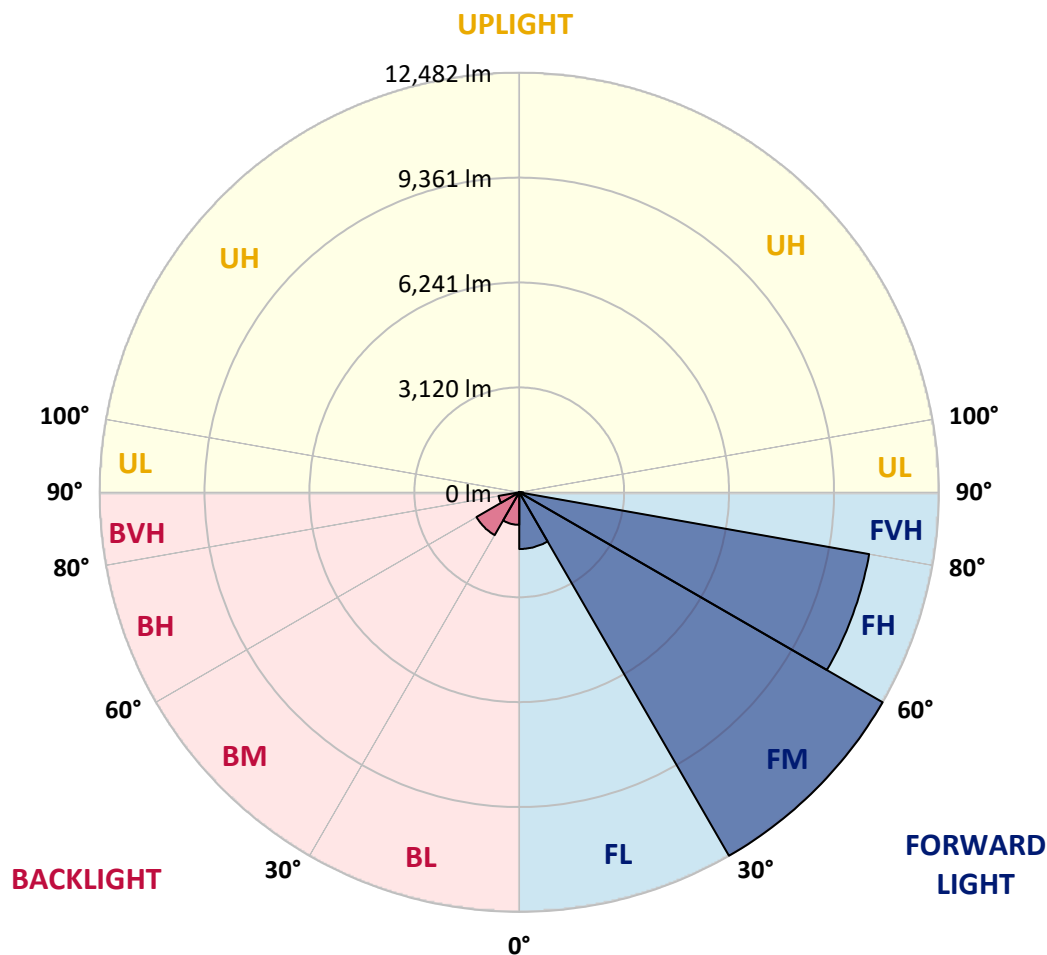
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1687.0	6.0			
FM	(30°-60°)	12481.6	44.7			
FH	(60°-80°)	10568.0	37.9			G4/12000
FVH	(80°-90°)	113.9	0.4			G2/225
BL	(0°-30°)	967.3	3.5	B2/1000		
BM	(30°-60°)	1467.9	5.3	B2/2500		
BH	(60°-80°)	623.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6
2.5°	3238.7	3253.2	3263.8	3270.4	3278.3	3295.4	3300.7	3308.6	3312.6	3312.6	3321.8
5°	3110.7	3126.5	3149.0	3167.4	3204.4	3251.9	3286.2	3299.4	3323.2	3344.3	3356.2
7.5°	2991.9	3010.4	3036.8	3080.3	3143.7	3220.2	3291.5	3310.0	3356.2	3401.0	3423.5
10°	2915.4	2929.9	2964.2	3026.2	3109.4	3216.3	3316.6	3339.0	3418.2	3493.4	3535.6
12.5°	2889.0	2902.2	2937.8	3007.7	3110.7	3236.1	3374.6	3407.6	3523.8	3633.3	3692.7
15°	2927.2	2929.9	2968.1	3034.1	3135.8	3284.9	3471.0	3510.6	3657.1	3799.6	3873.5
17.5°	3075.0	3063.2	3083.0	3112.0	3192.5	3349.6	3572.6	3632.0	3827.3	3994.9	4064.9
20°	3444.6	3444.6	3399.7	3320.5	3321.8	3449.9	3709.9	3777.2	4016.0	4210.0	4273.4
22.5°	4076.7	4064.9	3975.1	3781.1	3603.0	3622.7	3877.5	3964.6	4243.0	4450.2	4471.4
25°	4836.9	4822.4	4683.8	4410.6	4101.8	3902.5	4104.5	4204.8	4513.6	4697.0	4653.5
27.5°	5642.0	5630.1	5492.9	5153.7	4714.2	4348.6	4375.0	4470.0	4789.4	4970.2	4831.6
30°	6422.0	6425.9	6290.0	5941.6	5444.0	4917.4	4718.2	4773.6	5057.3	5240.8	5042.8
32.5°	7163.7	7168.9	7051.5	6662.2	6197.6	5578.6	5193.3	5178.7	5368.8	5549.6	5322.6
35°	7824.9	7838.1	7757.6	7455.3	6963.1	6315.1	5809.6	5775.3	5810.9	6015.5	5751.5
37.5°	8462.3	8470.2	8409.5	8154.8	7743.0	7124.1	6588.3	6539.4	6462.9	6619.9	6317.7
40°	9160.5	9140.7	9070.7	8839.8	8486.1	8017.6	7425.0	7340.5	7207.2	7347.1	7062.0
42.5°	9809.8	9787.4	9799.2	9537.9	9239.7	8936.1	8400.3	8255.1	8177.2	8338.3	7975.3
45°	10621.4	10609.6	10649.2	10422.2	10180.6	9960.2	9518.1	9359.8	9325.4	9514.2	9080.0
47.5°	11422.5	11451.6	11574.3	11478.0	11380.3	11186.3	10702.0	10630.7	10651.8	10880.1	10245.3
50°	12090.3	12124.7	12461.2	12572.1	12713.3	12599.8	12114.1	12070.5	12153.7	12359.6	11499.1
52.5°	12573.4	12643.3	13061.7	13572.4	14087.1	14163.7	13679.3	13639.7	13751.9	13783.6	12467.8
55°	12908.6	12970.6	13444.4	14378.8	15426.7	15756.6	15455.7	15302.6	15281.5	14968.7	13486.7
57.5°	12968.0	12961.4	13642.4	14900.1	16477.2	17328.5	17138.4	16988.0	16555.1	16064.1	14654.6
60°	12632.8	12671.0	13461.6	15080.9	17137.1	18517.6	18532.1	18336.8	17662.4	17129.2	15787.0
62.5°	11600.7	11756.4	12554.9	14607.1	17129.2	18996.7	19553.6	19404.5	18598.1	18001.6	16935.2
65°	9927.3	9982.7	10744.2	12983.8	15971.8	18796.1	20473.5	20418.0	19441.4	18848.8	17525.1
67.5°	7249.5	7129.4	7929.1	10224.2	13522.3	17626.7	21133.4	21203.3	20092.1	19023.1	16896.9
68°	6616.0	6651.6	7274.5	9541.9	12880.9	17213.7	21176.9	21283.8	20156.7	18909.6	16553.8
70°	3943.4	4012.1	4567.7	6569.8	9799.2	14876.4	20707.1	20951.2	19771.4	17738.9	14318.1
72.5°	1007.0	1088.8	1614.1	2940.4	5597.1	10481.6	17480.3	17893.3	17166.1	14390.7	9665.9
75°	414.4	435.5	576.7	968.7	2085.2	4722.1	11521.5	12405.8	11900.3	8615.4	4368.4
77.5°	286.4	300.9	370.9	537.1	902.7	1600.9	5648.6	6287.3	5664.4	2940.4	952.9
80°	205.9	217.8	265.3	357.7	518.7	571.5	1841.1	2128.8	1690.6	645.4	236.2
82.5°	122.7	132.0	198.0	254.7	315.4	273.2	458.0	520.0	489.6	320.7	105.6
85°	60.7	71.3	133.3	182.1	170.2	114.8	139.9	155.7	192.7	195.3	56.7
87.5°	4.0	7.9	77.9	109.5	47.5	26.4	40.9	50.2	68.6	96.3	23.8
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°	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6
2.5°	3325.8	3327.1	3317.9	3313.9	3316.6	3300.7	3294.1	3296.8	3296.8	3300.7	3294.1
5°	3358.8	3358.8	3343.0	3321.8	3310.0	3279.6	3259.8	3254.5	3250.6	3247.9	3242.7
7.5°	3430.1	3422.1	3394.4	3348.2	3308.6	3242.7	3192.5	3166.1	3152.9	3147.6	3143.7
10°	3544.9	3530.4	3484.2	3398.4	3307.3	3189.9	3080.3	3002.5	2937.8	2911.4	2895.6
12.5°	3699.3	3678.2	3600.3	3457.8	3298.1	3081.6	2844.1	2615.8	2403.3	2316.2	2272.6
15°	3877.5	3847.1	3724.4	3507.9	3244.0	2837.5	2321.5	1921.6	1627.3	1516.4	1468.9
17.5°	4058.3	4018.7	3832.6	3539.6	3081.6	2332.0	1628.6	1230.0	1033.4	980.6	962.1
20°	4240.4	4182.3	3926.3	3515.8	2714.8	1681.4	1074.3	898.8	842.0	826.2	820.9
22.5°	4413.3	4323.5	4010.8	3423.5	2149.9	1128.4	849.9	794.5	776.0	766.8	764.1
25°	4563.7	4438.4	4084.7	3138.4	1521.7	852.6	765.5	747.0	723.2	706.1	707.4
27.5°	4705.0	4553.2	4129.5	2668.6	1014.9	728.5	708.7	683.6	640.1	615.0	615.0
30°	4875.2	4706.3	4162.5	2053.6	747.0	644.0	628.2	589.9	530.5	497.6	497.6
32.5°	5131.2	4938.6	4141.4	1441.2	619.0	566.2	529.2	476.4	411.8	380.1	378.8
35°	5523.2	5297.5	3991.0	944.9	546.4	492.3	432.9	368.2	311.5	285.1	283.7
37.5°	6051.1	5777.9	3653.1	675.7	489.6	423.6	352.4	281.1	238.9	221.7	220.4
40°	6736.1	6336.2	3170.1	547.7	436.8	357.7	271.9	217.8	188.7	175.5	176.8
42.5°	7558.3	6934.0	2590.7	472.5	385.4	294.3	212.5	171.6	153.1	143.9	141.2
45°	8471.6	7524.0	1983.6	421.0	333.9	237.6	166.3	135.9	121.4	116.1	116.1
47.5°	9475.9	8098.1	1451.7	376.1	278.5	183.4	133.3	110.9	99.0	95.0	93.7
50°	10387.8	8496.6	1046.6	328.6	228.3	145.2	108.2	92.4	84.5	79.2	79.2
52.5°	11148.0	8622.0	770.7	277.2	184.8	116.1	89.7	79.2	71.3	67.3	67.3
55°	11817.2	8570.5	572.8	228.3	149.1	95.0	76.5	67.3	60.7	56.7	56.7
57.5°	12458.6	8404.2	427.6	186.1	120.1	76.5	64.7	56.7	50.2	47.5	47.5
60°	12982.5	8127.1	318.1	150.5	96.3	62.0	54.1	46.2	40.9	37.0	37.0
62.5°	13407.5	7820.9	233.6	124.1	76.5	48.8	42.2	38.3	30.4	26.4	26.4
65°	13410.1	7312.8	175.5	102.9	59.4	38.3	31.7	30.4	19.8	15.8	14.5
67.5°	12440.1	6304.5	134.6	88.4	46.2	29.0	23.8	25.1	10.6	6.6	5.3
68°	12087.7	6048.5	126.7	87.1	43.6	27.7	22.4	25.1	9.2	5.3	4.0
70°	10191.2	4811.9	101.6	84.5	38.3	21.1	18.5	25.1	7.9	4.0	2.6
72.5°	6518.3	2792.6	75.2	67.3	29.0	15.8	11.9	22.4	7.9	2.6	1.3
75°	2774.1	865.8	51.5	47.5	17.2	11.9	7.9	14.5	5.3	1.3	0.0
77.5°	584.7	195.3	30.4	29.0	11.9	7.9	5.3	4.0	1.3	0.0	0.0
80°	150.5	56.7	15.8	14.5	6.6	4.0	2.6	0.0	0.0	0.0	0.0
82.5°	47.5	22.4	9.2	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	13.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	4.0	1.3	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)