

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: P322154

Luminaire Tested: **GAN-SA0A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322154
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-SA0A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 28112 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - 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

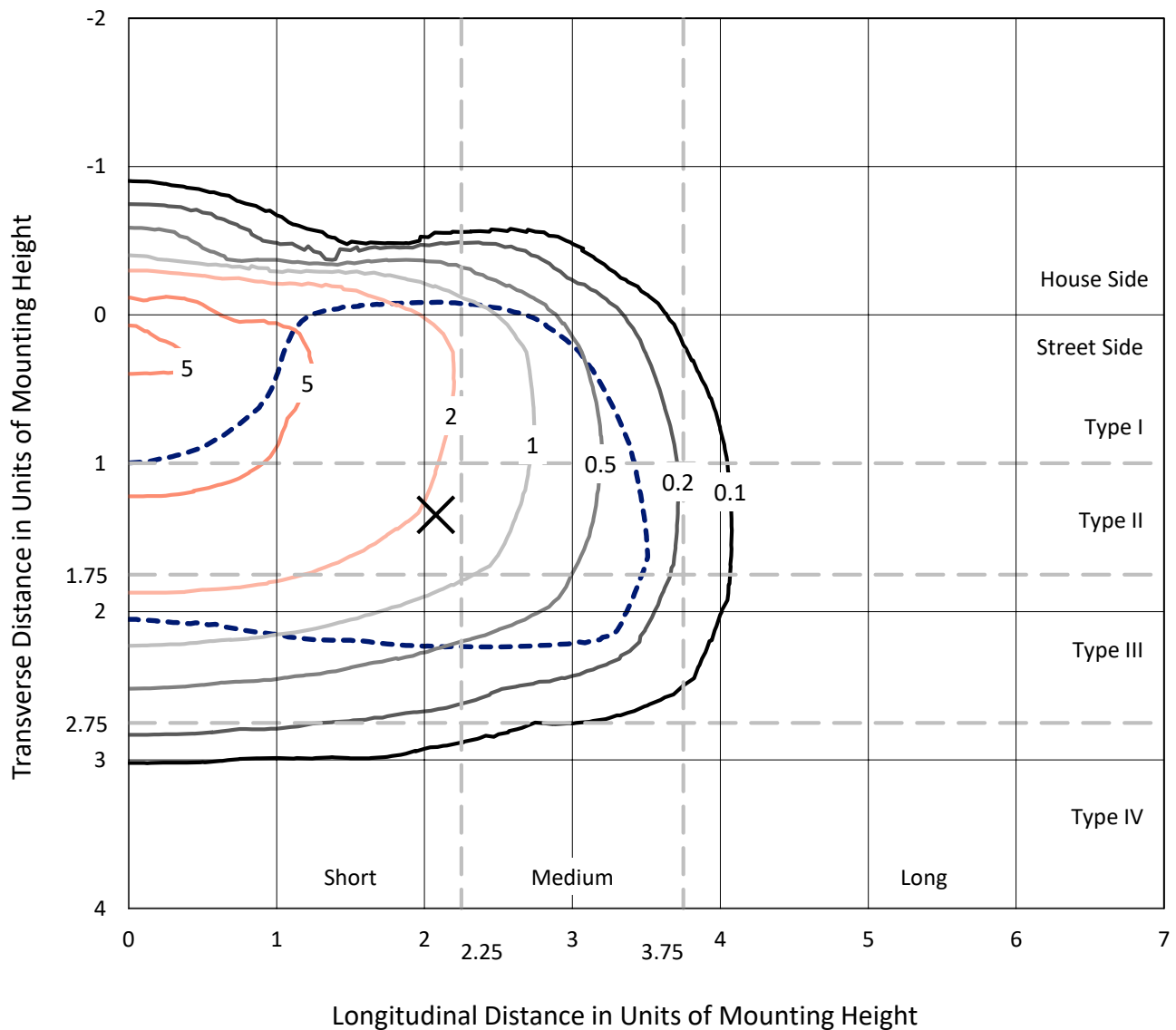


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Iso-Footcandle Lines of Horizontal Illumination

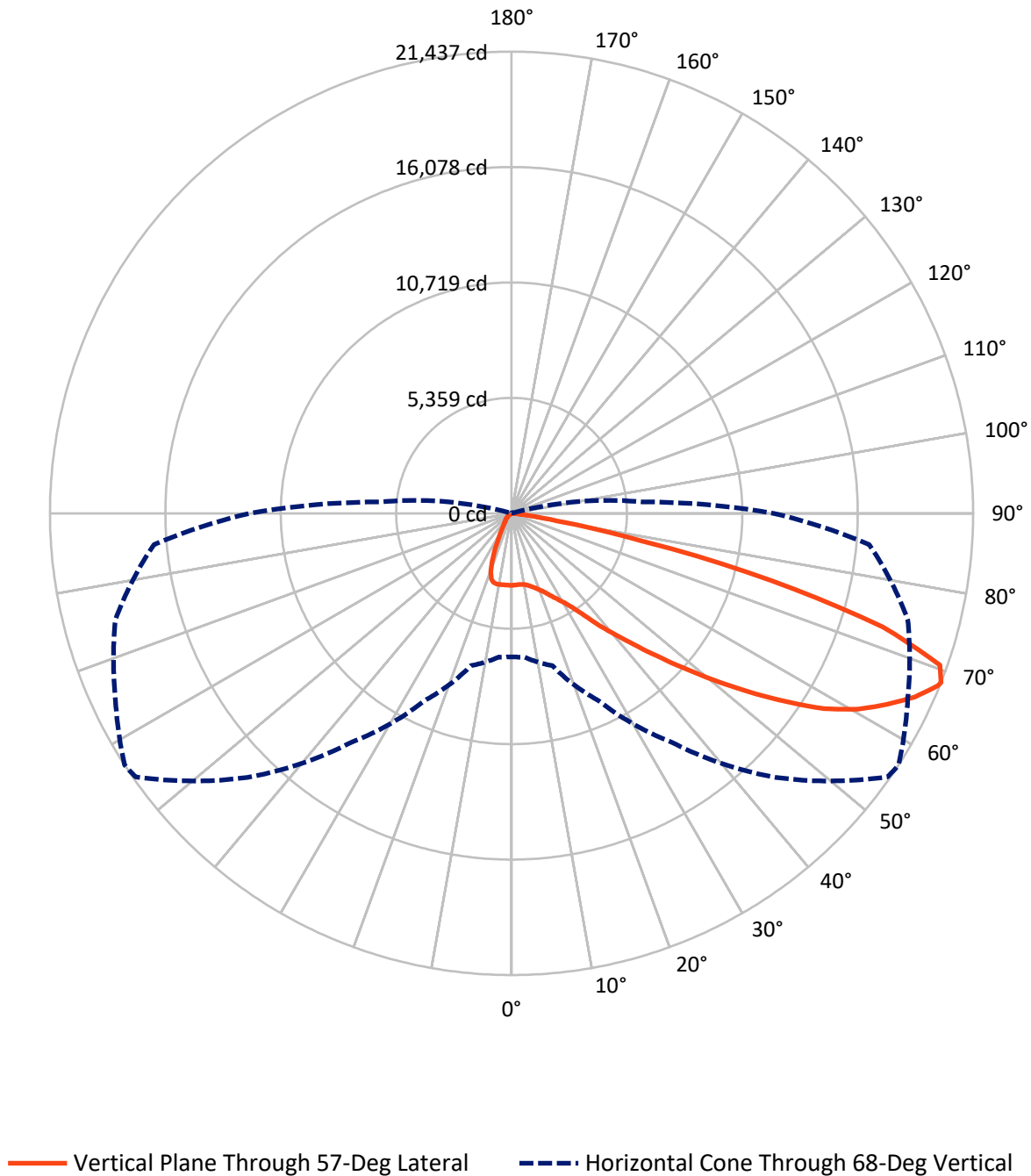
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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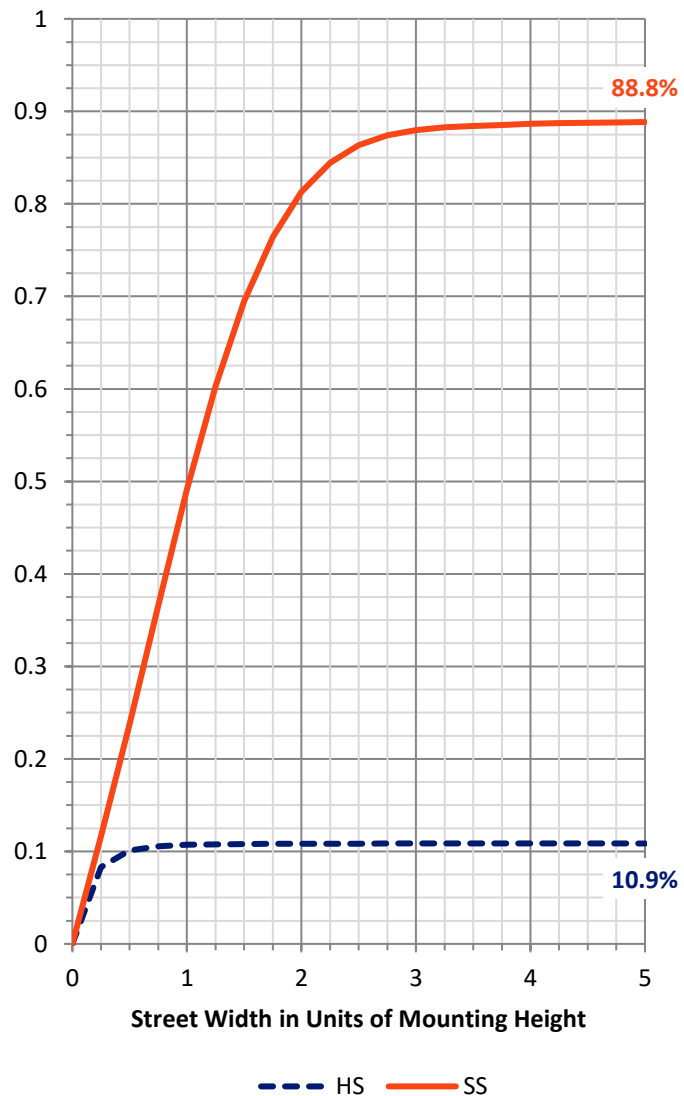
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3082.7	0.0	3082.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	25029.3	0.0	25029.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	28112.0	0.0	28112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	1.1
10°-20°	866.3	3.1
20°-30°	1494.4	5.3
30°-40°	2579.3	9.2
40°-50°	4412.0	15.7
50°-60°	7058.7	25.1
60°-70°	8155.6	29.0
70°-80°	3116.4	11.1
80°-90°	116.8	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°	28112.0	100.0
0°-180°	28112.0	100.0

Coefficient of Utilization



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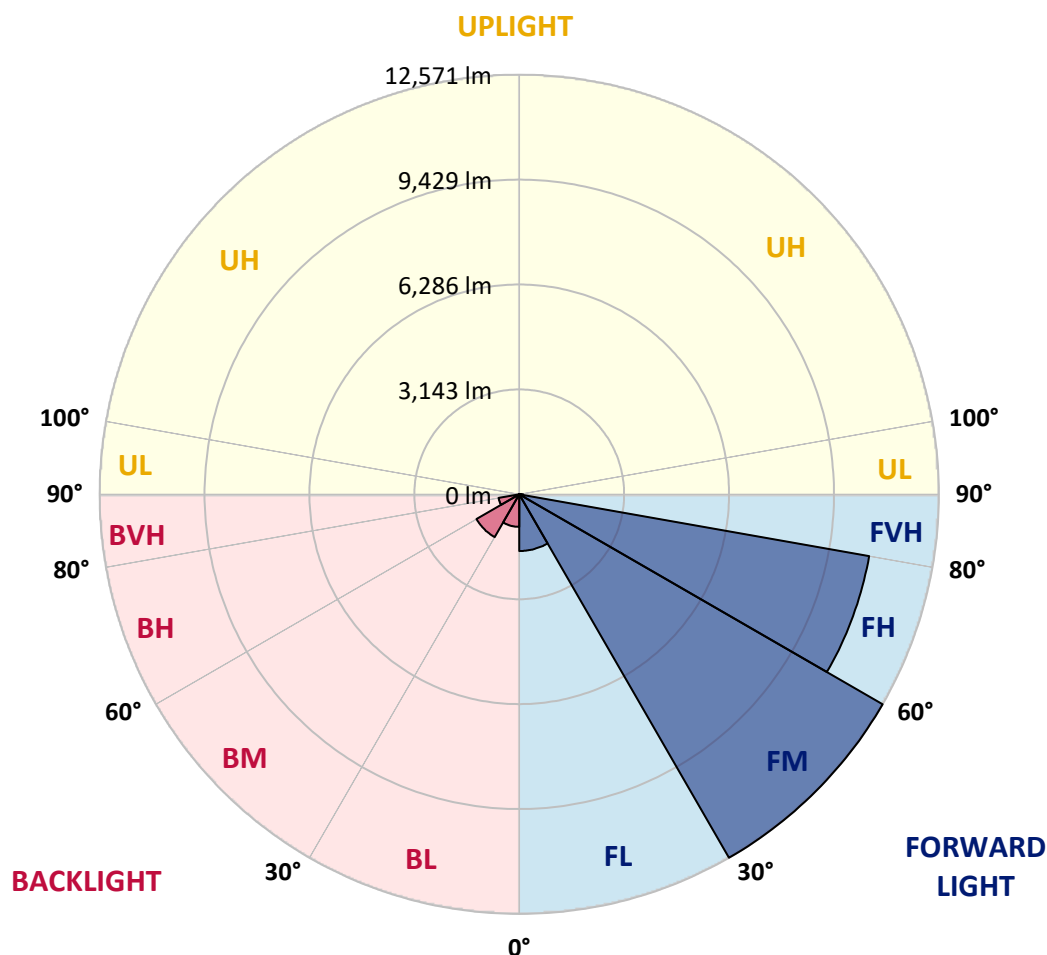
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1699.1	6.0			
FM	(30°-60°)	12571.5	44.7			
FH	(60°-80°)	10644.1	37.9			G4/12000
FVH	(80°-90°)	114.7	0.4			G2/225
BL	(0°-30°)	974.2	3.5	B2/1000		
BM	(30°-60°)	1478.5	5.3	B2/2500		
BH	(60°-80°)	627.8	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°	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4
2.5°	3262.0	3276.6	3287.3	3293.9	3301.9	3319.2	3324.5	3332.5	3336.5	3336.5	3345.8
5°	3133.1	3149.0	3171.6	3190.2	3227.5	3275.3	3309.9	3323.2	3347.1	3368.4	3380.3
7.5°	3013.4	3032.1	3058.6	3102.5	3166.3	3243.4	3315.2	3333.8	3380.3	3425.5	3448.1
10°	2936.3	2951.0	2985.5	3048.0	3131.8	3239.4	3340.4	3363.0	3442.8	3518.6	3561.1
12.5°	2909.8	2923.1	2958.9	3029.4	3133.1	3259.4	3398.9	3432.2	3549.1	3659.5	3719.3
15°	2948.3	2951.0	2989.5	3056.0	3158.3	3308.5	3496.0	3535.8	3683.4	3827.0	3901.4
17.5°	3097.2	3085.2	3105.2	3134.4	3215.5	3373.7	3598.3	3658.1	3854.9	4023.7	4094.1
20°	3469.4	3469.4	3424.2	3344.4	3345.8	3474.7	3736.6	3804.4	4045.0	4240.4	4304.2
22.5°	4106.1	4094.1	4003.8	3808.3	3628.9	3648.8	3905.4	3993.1	4273.6	4482.3	4503.6
25°	4871.8	4857.1	4717.6	4442.4	4131.4	3930.6	4134.0	4235.0	4546.1	4730.9	4687.0
27.5°	5682.6	5670.7	5532.4	5190.8	4748.1	4379.9	4406.5	4502.2	4823.9	5006.0	4866.4
30°	6468.2	6472.2	6335.3	5984.4	5483.2	4952.8	4752.1	4808.0	5093.7	5278.5	5079.1
32.5°	7215.3	7220.6	7102.3	6710.1	6242.2	5618.8	5230.7	5216.0	5407.5	5589.6	5360.9
35°	7881.2	7894.5	7813.4	7509.0	7013.2	6360.5	5851.4	5816.9	5852.8	6058.8	5792.9
37.5°	8523.3	8531.2	8470.1	8213.5	7798.8	7175.4	6635.7	6586.5	6509.4	6667.6	6363.2
40°	9226.4	9206.5	9136.0	8903.4	8547.2	8075.3	7478.5	7393.4	7259.1	7400.0	7112.9
42.5°	9880.4	9857.8	9869.8	9606.6	9306.2	9000.5	8460.8	8314.6	8236.1	8398.3	8032.8
45°	10697.9	10686.0	10725.9	10497.2	10254.0	10032.0	9586.7	9427.2	9392.6	9582.7	9145.4
47.5°	11504.8	11534.0	11657.7	11560.6	11462.3	11266.9	10779.0	10707.2	10728.5	10958.5	10319.1
50°	12177.4	12212.0	12550.9	12662.6	12804.8	12690.5	12201.3	12157.5	12241.2	12448.6	11581.9
52.5°	12663.9	12734.4	13155.8	13670.2	14188.6	14265.7	13777.8	13738.0	13851.0	13882.9	12557.6
55°	13001.6	13064.0	13541.2	14482.4	15537.8	15870.1	15567.0	15412.8	15391.6	15076.5	13583.8
57.5°	13061.4	13054.7	13740.6	15007.4	16595.9	17453.3	17261.9	17110.3	16674.3	16179.8	14760.2
60°	12723.7	12762.3	13558.5	15189.5	17260.5	18650.9	18665.6	18468.8	17789.6	17252.6	15900.7
62.5°	11684.3	11841.1	12645.3	14712.3	17252.6	19133.5	19694.4	19544.2	18732.0	18131.2	17057.1
65°	9998.7	10054.6	10821.6	13077.3	16086.8	18931.4	20620.9	20565.1	19581.4	18984.6	17651.3
67.5°	7301.7	7180.7	7986.2	10297.8	13619.7	17753.7	21285.5	21356.0	20236.8	19160.0	17018.6
68°	6663.6	6699.5	7326.9	9610.6	12973.6	17337.6	21329.4	21437.1	20301.9	19045.7	16673.0
70°	3971.8	4041.0	4600.6	6617.1	9869.8	14983.5	20856.2	21102.1	19913.7	17866.7	14421.2
72.5°	1014.2	1096.6	1625.7	2961.6	5637.4	10557.0	17606.1	18022.2	17289.8	14494.3	9735.5
75°	417.4	438.7	580.9	975.7	2100.2	4756.1	11604.5	12495.1	11986.0	8677.5	4399.9
77.5°	288.5	303.1	373.5	541.0	909.2	1612.4	5689.3	6332.6	5705.2	2961.6	959.7
80°	207.4	219.3	267.2	360.2	522.4	575.6	1854.3	2144.1	1702.8	650.0	237.9
82.5°	123.6	132.9	199.4	256.5	317.7	275.2	461.3	523.7	493.2	323.0	106.3
85°	61.1	71.8	134.3	183.4	171.5	115.6	140.9	156.9	194.1	196.7	57.2
87.5°	4.0	8.0	78.4	110.3	47.9	26.6	41.2	50.5	69.1	97.0	23.9
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°	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4
2.5°	3349.8	3351.1	3341.8	3337.8	3340.4	3324.5	3317.8	3320.5	3320.5	3324.5	3317.8
5°	3383.0	3383.0	3367.0	3345.8	3333.8	3303.2	3283.3	3278.0	3274.0	3271.3	3266.0
7.5°	3454.8	3446.8	3418.9	3372.3	3332.5	3266.0	3215.5	3188.9	3175.6	3170.3	3166.3
10°	3570.4	3555.8	3509.3	3422.9	3331.1	3212.8	3102.5	3024.1	2958.9	2932.4	2916.4
12.5°	3725.9	3704.7	3626.2	3482.7	3321.8	3103.8	2864.6	2634.6	2420.6	2332.9	2289.0
15°	3905.4	3874.8	3751.2	3533.2	3267.3	2857.9	2338.2	1935.4	1639.0	1527.3	1479.5
17.5°	4087.5	4047.6	3860.2	3565.1	3103.8	2348.8	1640.3	1238.9	1040.8	987.6	969.0
20°	4270.9	4212.4	3954.6	3541.2	2734.3	1693.5	1082.0	905.2	848.1	832.1	826.8
22.5°	4445.1	4354.7	4039.6	3448.1	2165.4	1136.5	856.0	800.2	781.6	772.3	769.6
25°	4596.6	4470.3	4114.1	3161.0	1532.6	858.7	771.0	752.4	728.4	711.2	712.5
27.5°	4738.8	4586.0	4159.3	2687.8	1022.2	733.8	713.8	688.6	644.7	619.4	619.4
30°	4910.3	4740.2	4192.5	2068.3	752.4	648.7	632.7	594.2	534.4	501.1	501.1
32.5°	5168.2	4974.1	4171.2	1451.6	623.4	570.3	533.0	479.9	414.7	382.8	381.5
35°	5563.0	5335.7	4019.7	951.8	550.3	495.8	436.0	370.9	313.7	287.1	285.8
37.5°	6094.7	5819.5	3679.4	680.6	493.2	426.7	354.9	283.1	240.6	223.3	222.0
40°	6784.6	6381.8	3192.9	551.6	440.0	360.2	273.8	219.3	190.1	176.8	178.1
42.5°	7612.7	6984.0	2609.4	475.9	388.1	296.4	214.0	172.8	154.2	144.9	142.2
45°	8532.6	7578.1	1997.9	424.0	336.3	239.3	167.5	136.9	122.3	117.0	117.0
47.5°	9544.1	8156.4	1462.2	378.8	280.5	184.8	134.3	111.7	99.7	95.7	94.4
50°	10462.7	8557.8	1054.1	331.0	230.0	146.2	109.0	93.0	85.1	79.8	79.8
52.5°	11228.3	8684.1	776.3	279.1	186.1	117.0	90.4	79.8	71.8	67.8	67.8
55°	11902.3	8632.3	576.9	230.0	150.2	95.7	77.1	67.8	61.1	57.2	57.2
57.5°	12548.3	8464.8	430.7	187.4	121.0	77.1	65.1	57.2	50.5	47.9	47.9
60°	13076.0	8185.6	320.4	151.5	97.0	62.5	54.5	46.5	41.2	37.2	37.2
62.5°	13504.0	7877.2	235.3	125.0	77.1	49.2	42.5	38.5	30.6	26.6	26.6
65°	13506.7	7365.5	176.8	103.7	59.8	38.5	31.9	30.6	19.9	16.0	14.6
67.5°	12529.7	6349.9	135.6	89.1	46.5	29.2	23.9	25.3	10.6	6.6	5.3
68°	12174.8	6092.0	127.6	87.7	43.9	27.9	22.6	25.3	9.3	5.3	4.0
70°	10264.6	4846.5	102.4	85.1	38.5	21.3	18.6	25.3	8.0	4.0	2.7
72.5°	6565.2	2812.7	75.8	67.8	29.2	16.0	12.0	22.6	8.0	2.7	1.3
75°	2794.1	872.0	51.8	47.9	17.3	12.0	8.0	14.6	5.3	1.3	0.0
77.5°	588.9	196.7	30.6	29.2	12.0	8.0	5.3	4.0	1.3	0.0	0.0
80°	151.5	57.2	16.0	14.6	6.6	4.0	2.7	0.0	0.0	0.0	0.0
82.5°	47.9	22.6	9.3	6.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.9	13.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	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)