

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: P322364

Luminaire Tested: **GAN-SA0B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322364
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-SA0B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 30302 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 419
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

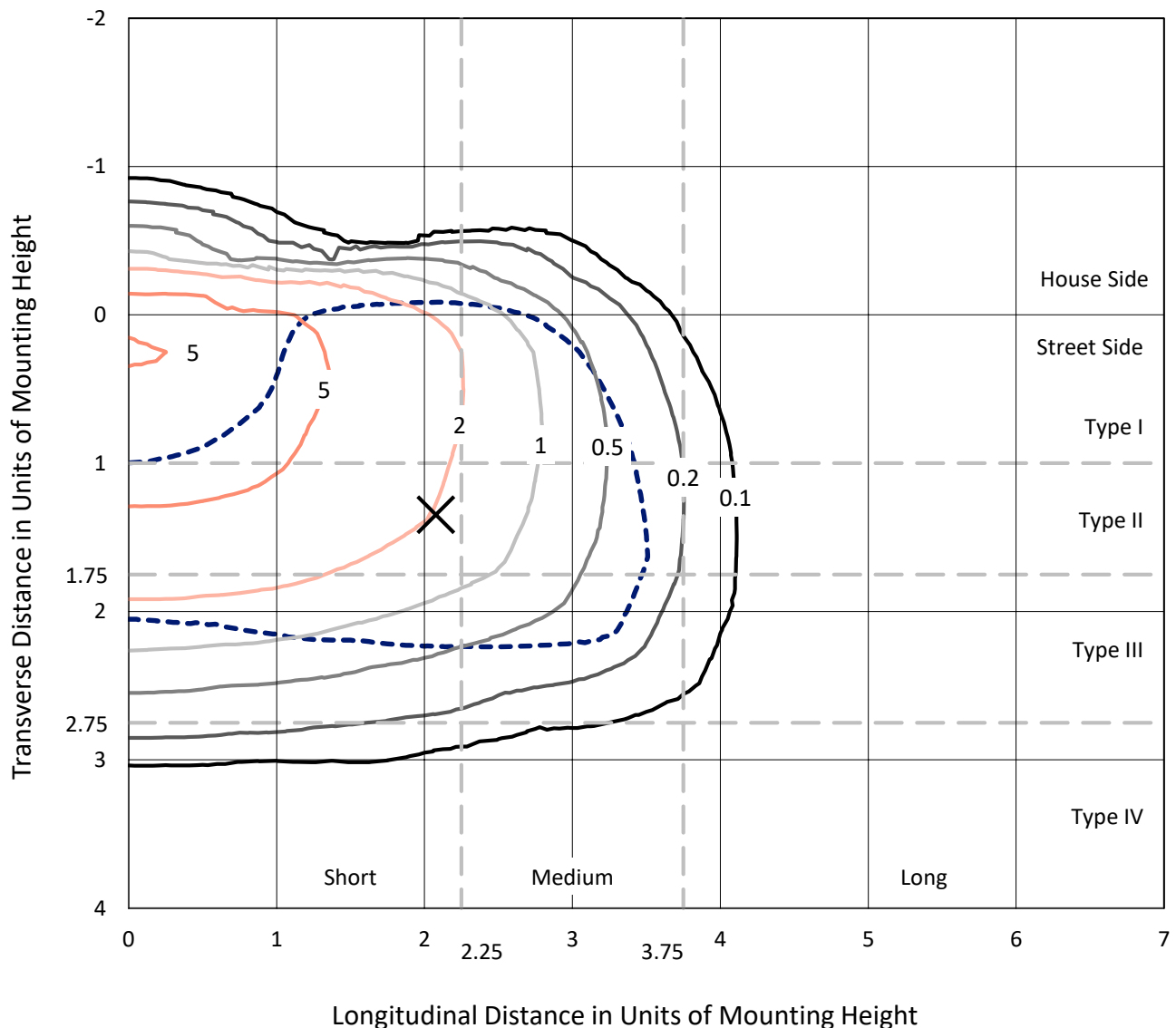


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Iso-Footcandle Lines of Horizontal Illumination

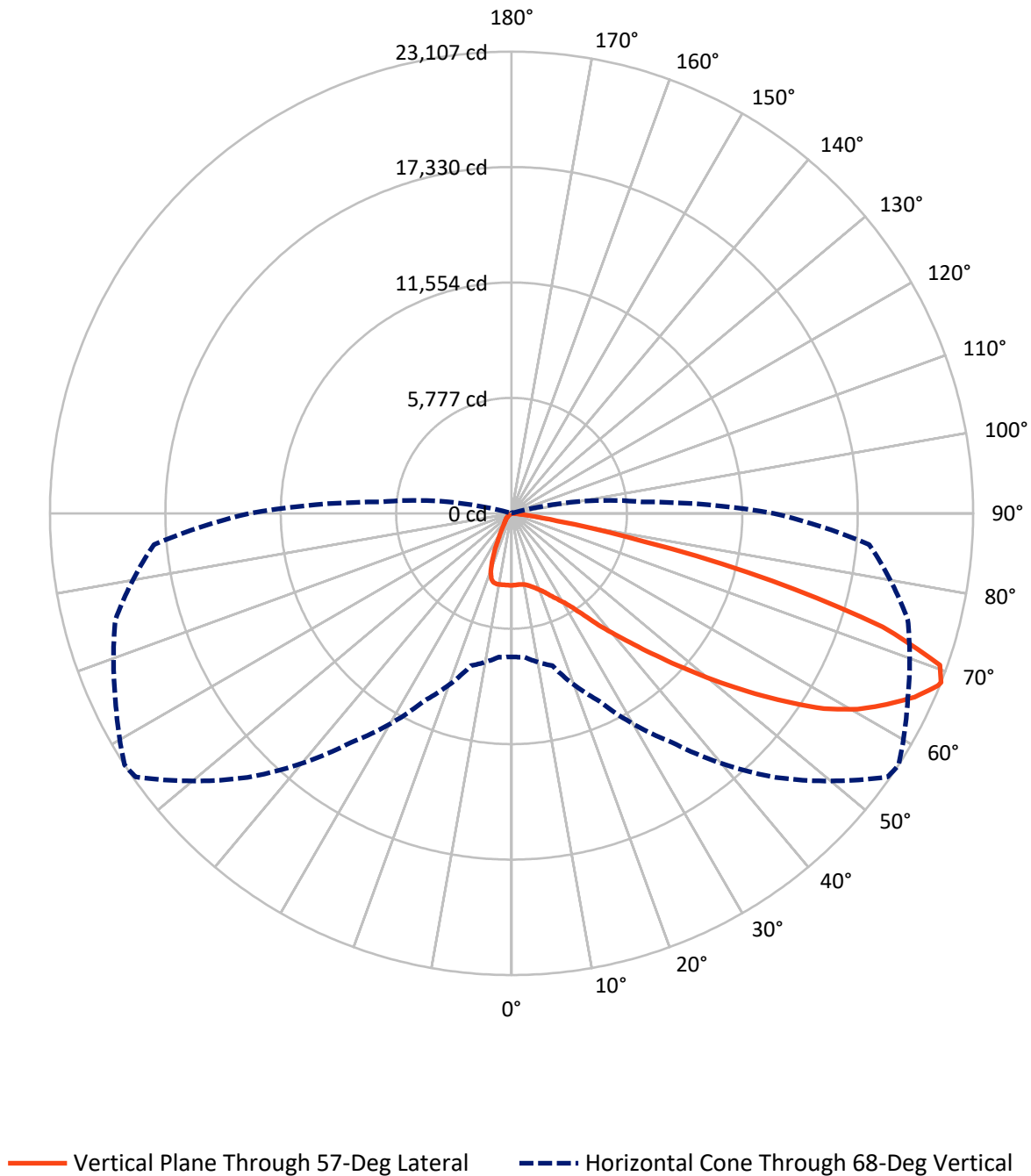
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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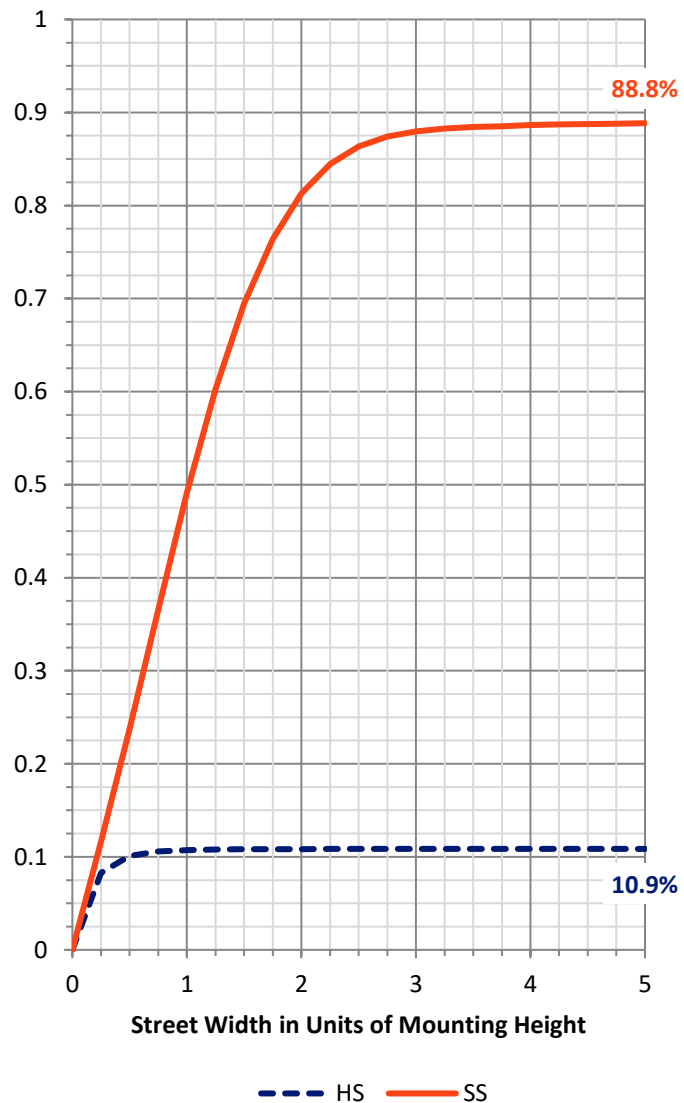
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3322.8	0.0	3322.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	26979.2	0.0	26979.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	30302.0	0.0	30302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	1.1
10°-20°	933.8	3.1
20°-30°	1610.8	5.3
30°-40°	2780.2	9.2
40°-50°	4755.7	15.7
50°-60°	7608.6	25.1
60°-70°	8790.9	29.0
70°-80°	3359.1	11.1
80°-90°	125.9	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°	30302.0	100.0
0°-180°	30302.0	100.0

Coefficient of Utilization



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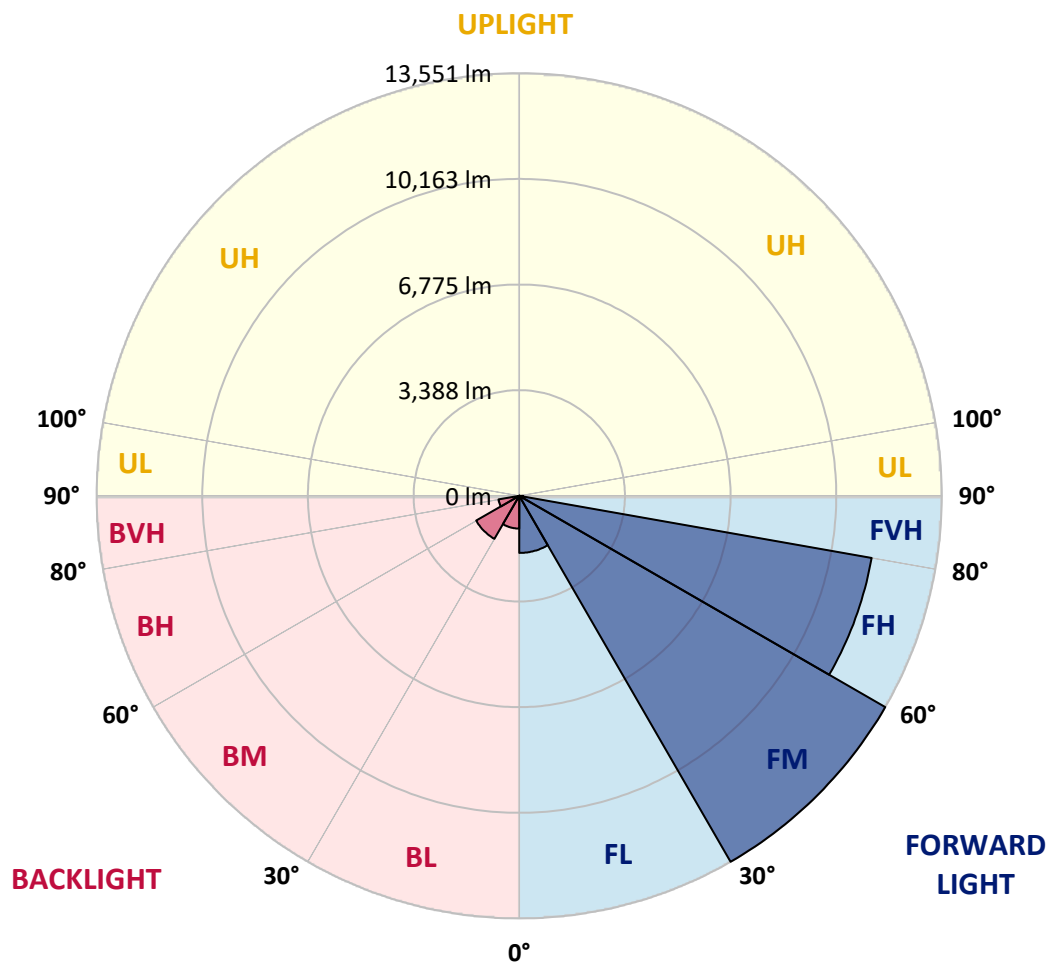
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.5	6.0			
FM	(30°-60°)	13550.8	44.7			
FH	(60°-80°)	11473.3	37.9			G4/12000
FVH	(80°-90°)	123.6	0.4			G2/225
BL	(0°-30°)	1050.1	3.5	B3/2500		
BM	(30°-60°)	1593.7	5.3	B2/2500		
BH	(60°-80°)	676.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7
2.5°	3516.1	3531.9	3543.4	3550.5	3559.1	3577.8	3583.5	3592.1	3596.4	3596.4	3606.4
5°	3377.2	3394.4	3418.7	3438.8	3478.9	3530.5	3567.7	3582.0	3607.8	3630.8	3643.7
7.5°	3248.2	3268.3	3296.9	3344.2	3413.0	3496.1	3573.5	3593.5	3643.7	3692.4	3716.7
10°	3165.1	3180.9	3218.1	3285.5	3375.7	3491.8	3600.7	3625.0	3711.0	3792.7	3838.5
12.5°	3136.4	3150.8	3189.5	3265.4	3377.2	3513.3	3663.7	3699.5	3825.6	3944.6	4009.0
15°	3178.0	3180.9	3222.4	3294.1	3404.4	3566.3	3768.3	3811.3	3970.3	4125.1	4205.3
17.5°	3338.5	3325.6	3347.1	3378.6	3466.0	3636.5	3878.6	3943.1	4155.2	4337.1	4413.1
20°	3739.7	3739.7	3690.9	3605.0	3606.4	3745.4	4027.7	4100.7	4360.1	4570.7	4639.5
22.5°	4426.0	4413.1	4315.7	4105.0	3911.6	3933.1	4209.6	4304.2	4606.5	4831.5	4854.4
25°	5251.3	5235.5	5085.1	4788.5	4453.2	4236.8	4456.1	4565.0	4900.2	5099.4	5052.1
27.5°	6125.3	6112.4	5963.4	5595.2	5118.0	4721.1	4749.8	4853.0	5199.7	5396.0	5245.6
30°	6972.1	6976.4	6828.8	6450.6	5910.4	5338.7	5122.3	5182.5	5490.6	5689.7	5474.8
32.5°	7777.3	7783.1	7655.6	7232.9	6728.5	6056.5	5638.1	5622.4	5828.7	6025.0	5778.6
35°	8495.2	8509.5	8422.1	8094.0	7559.6	6856.0	6307.3	6270.0	6308.7	6530.8	6244.2
37.5°	9187.2	9195.8	9129.9	8853.4	8406.4	7734.4	7152.6	7099.6	7016.5	7187.0	6858.9
40°	9945.2	9923.7	9847.8	9597.0	9213.0	8704.4	8061.0	7969.3	7824.6	7976.5	7667.0
42.5°	10650.2	10625.8	10638.7	10355.0	10031.2	9701.6	9119.9	8962.3	8877.8	9052.6	8658.5
45°	11531.3	11518.4	11561.4	11315.0	11052.8	10813.5	10333.5	10161.6	10124.3	10329.2	9857.8
47.5°	12401.1	12432.6	12565.8	12461.2	12355.2	12144.6	11618.7	11541.4	11564.3	11812.2	11123.0
50°	13126.1	13163.3	13528.7	13649.0	13802.4	13679.1	13151.9	13104.6	13194.8	13418.4	12484.2
52.5°	13650.5	13726.4	14180.6	14735.1	15293.9	15377.0	14851.2	14808.2	14930.0	14964.4	13535.8
55°	14014.4	14081.8	14596.1	15610.6	16748.2	17106.4	16779.8	16613.5	16590.6	16251.0	14642.0
57.5°	14078.9	14071.7	14811.1	16176.5	17888.8	18812.9	18606.6	18443.3	17973.3	17440.3	15910.0
60°	13715.0	13756.5	14614.8	16372.8	18605.2	20103.9	20119.7	19907.6	19175.4	18596.6	17139.4
62.5°	12594.5	12763.6	13630.4	15858.5	18596.6	20624.0	21228.7	21066.8	20191.3	19543.7	18385.9
65°	10777.7	10837.8	11664.6	14096.1	17340.0	20406.2	22227.3	22167.2	21106.9	20463.5	19026.4
67.5°	7870.5	7740.1	8608.4	11100.1	14680.7	19136.7	22943.7	23019.7	21813.3	20652.7	18344.4
68°	7182.7	7221.4	7897.7	10359.3	13984.3	18688.3	22991.0	23107.1	21883.5	20529.4	17971.9
70°	4281.3	4355.8	4959.0	7132.6	10638.7	16150.7	22480.9	22746.0	21465.1	19258.5	15544.7
72.5°	1093.2	1182.1	1752.3	3192.3	6076.6	11379.5	18977.7	19426.2	18636.7	15623.5	10494.0
75°	449.9	472.8	626.1	1051.7	2263.9	5126.6	12508.5	13468.5	12919.7	9353.4	4742.6
77.5°	310.9	326.7	402.6	583.2	980.0	1738.0	6132.5	6826.0	6149.7	3192.3	1034.5
80°	223.5	236.4	288.0	388.3	563.1	620.4	1998.8	2311.1	1835.4	700.6	256.5
82.5°	133.3	143.3	214.9	276.5	342.4	296.6	497.2	564.5	531.6	348.2	114.6
85°	65.9	77.4	144.7	197.7	184.8	124.7	151.9	169.1	209.2	212.1	61.6
87.5°	4.3	8.6	84.5	118.9	51.6	28.7	44.4	54.4	74.5	104.6	25.8
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°	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7	3600.7
2.5°	3610.7	3612.1	3602.1	3597.8	3600.7	3583.5	3576.3	3579.2	3579.2	3583.5	3576.3
5°	3646.5	3646.5	3629.3	3606.4	3593.5	3560.6	3539.1	3533.3	3529.0	3526.2	3520.4
7.5°	3723.9	3715.3	3685.2	3635.1	3592.1	3520.4	3466.0	3437.3	3423.0	3417.3	3413.0
10°	3848.6	3832.8	3782.6	3689.5	3590.6	3463.1	3344.2	3259.7	3189.5	3160.8	3143.6
12.5°	4016.2	3993.3	3908.7	3754.0	3580.6	3345.6	3087.7	2839.8	2609.2	2514.6	2467.3
15°	4209.6	4176.7	4043.4	3808.4	3521.9	3080.6	2520.3	2086.2	1766.7	1646.3	1594.7
17.5°	4405.9	4362.9	4160.9	3842.8	3345.6	2531.8	1768.1	1335.4	1121.9	1064.6	1044.5
20°	4603.7	4540.6	4262.6	3817.0	2947.3	1825.4	1166.3	975.8	914.1	896.9	891.2
22.5°	4791.3	4693.9	4354.3	3716.7	2334.1	1225.1	922.7	862.6	842.5	832.5	829.6
25°	4954.7	4818.6	4434.6	3407.2	1652.0	925.6	831.0	811.0	785.2	766.6	768.0
27.5°	5108.0	4943.2	4483.3	2897.2	1101.8	790.9	769.4	742.2	694.9	667.7	667.7
30°	5292.8	5109.4	4519.1	2229.5	811.0	699.2	682.0	640.5	576.0	540.2	540.2
32.5°	5570.8	5361.6	4496.2	1564.6	672.0	614.7	574.6	517.2	447.0	412.7	411.2
35°	5996.4	5751.3	4332.8	1025.9	593.2	534.4	470.0	399.8	338.1	309.5	308.1
37.5°	6569.5	6272.9	3966.0	733.6	531.6	459.9	382.6	305.2	259.3	240.7	239.3
40°	7313.1	6879.0	3441.6	594.6	474.3	388.3	295.2	236.4	204.9	190.6	192.0
42.5°	8205.8	7528.0	2812.6	512.9	418.4	319.5	230.7	186.3	166.2	156.2	153.3
45°	9197.3	8168.5	2153.5	457.1	362.5	257.9	180.5	147.6	131.8	126.1	126.1
47.5°	10287.6	8791.8	1576.1	408.4	302.3	199.2	144.7	120.4	107.5	103.2	101.7
50°	11277.7	9224.5	1136.2	356.8	247.9	157.6	117.5	100.3	91.7	86.0	86.0
52.5°	12103.0	9360.6	836.8	300.9	200.6	126.1	97.4	86.0	77.4	73.1	73.1
55°	12829.5	9304.7	621.8	247.9	161.9	103.2	83.1	73.1	65.9	61.6	61.6
57.5°	13525.8	9124.2	464.2	202.0	130.4	83.1	70.2	61.6	54.4	51.6	51.6
60°	14094.6	8823.3	345.3	163.3	104.6	67.3	58.7	50.1	44.4	40.1	40.1
62.5°	14556.0	8490.9	253.6	134.7	83.1	53.0	45.9	41.6	33.0	28.7	28.7
65°	14558.9	7939.3	190.6	111.8	64.5	41.6	34.4	33.0	21.5	17.2	15.8
67.5°	13505.8	6844.6	146.1	96.0	50.1	31.5	25.8	27.2	11.5	7.2	5.7
68°	13123.2	6566.6	137.6	94.6	47.3	30.1	24.4	27.2	10.0	5.7	4.3
70°	11064.2	5224.1	110.3	91.7	41.6	22.9	20.1	27.2	8.6	4.3	2.9
72.5°	7076.7	3031.8	81.7	73.1	31.5	17.2	12.9	24.4	8.6	2.9	1.4
75°	3011.8	939.9	55.9	51.6	18.6	12.9	8.6	15.8	5.7	1.4	0.0
77.5°	634.7	212.1	33.0	31.5	12.9	8.6	5.7	4.3	1.4	0.0	0.0
80°	163.3	61.6	17.2	15.8	7.2	4.3	2.9	0.0	0.0	0.0	0.0
82.5°	51.6	24.4	10.0	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	14.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	4.3	1.4	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)