

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: P321689

Luminaire Tested: **GAN-SA5C-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27188 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

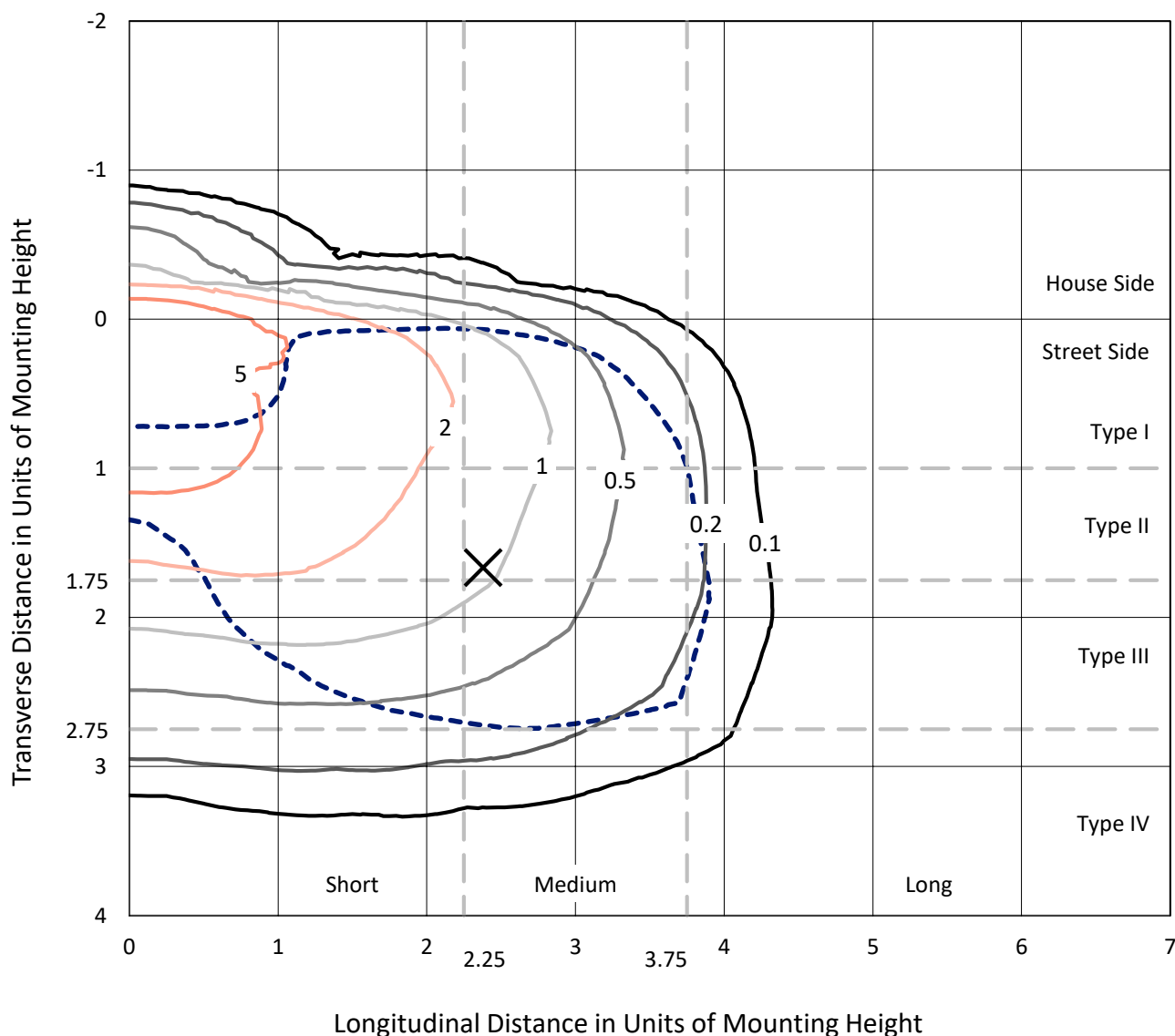
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321689
 CATALOG NUMBER: GAN-SA5C-760-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

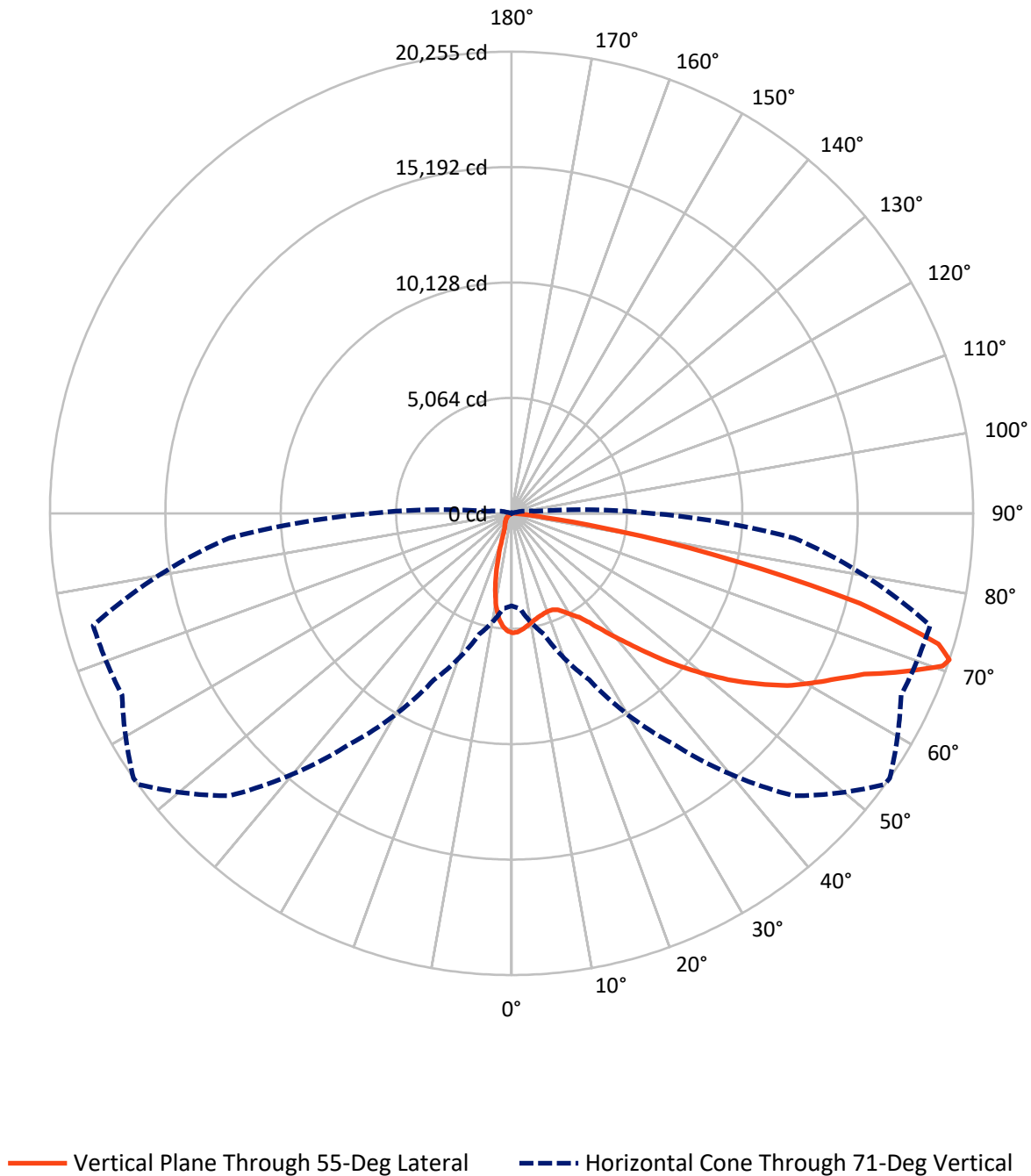
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P321689
CATALOG NUMBER: GAN-SA5C-760-U-T3R-HSS

Luminous Intensity Polar Plot



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CATALOG NUMBER: GAN-SA5C-760-U-T3R-HSS

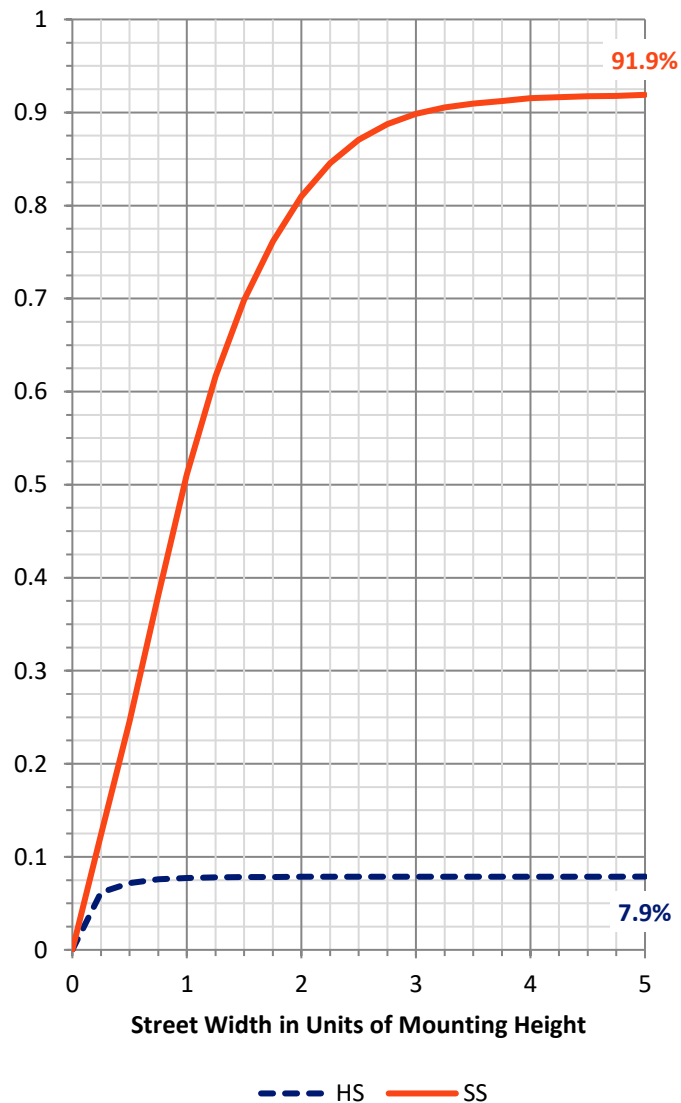
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2152.5	0.0	2152.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	25035.4	0.0	25035.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	27188.0	0.0	27188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	1.6
10°-20°	1009.3	3.7
20°-30°	1621.9	6.0
30°-40°	2755.8	10.1
40°-50°	4277.3	15.7
50°-60°	5750.7	21.2
60°-70°	7035.0	25.9
70°-80°	4113.2	15.1
80°-90°	177.8	0.7
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°	27188.0	100.0
0°-180°	27188.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321689

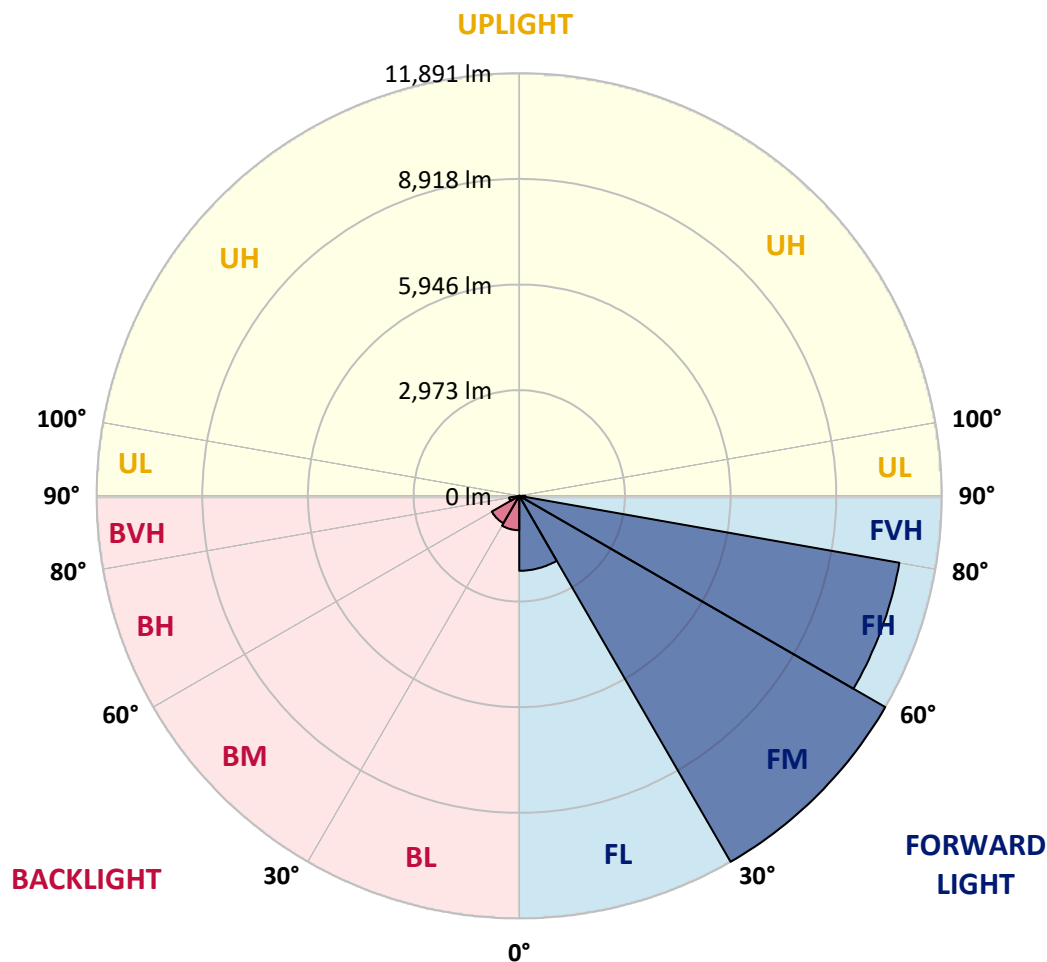
CATALOG NUMBER: GAN-SA5C-760-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2109.4	7.8			
FM	(30°-60°)	11891.2	43.7			
FH	(60°-80°)	10859.8	39.9			G4/12000
FVH	(80°-90°)	175.0	0.6			G2/225
BL	(0°-30°)	968.9	3.6	B2/1000		
BM	(30°-60°)	892.5	3.3	B1/1000		
BH	(60°-80°)	288.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.8	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 Medium





REPORT NUMBER: P321689

CATALOG NUMBER: GAN-SA5C-760-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3
2.5°	5089.5	5095.6	5117.6	5127.3	5150.5	5189.6	5209.1	5210.3	5242.1	5254.3	5264.1
5°	4729.3	4766.0	4802.6	4841.7	4912.5	5006.5	5099.2	5107.8	5210.3	5286.0	5326.3
7.5°	4419.3	4452.2	4496.2	4558.4	4658.5	4806.3	4961.3	4979.6	5173.7	5345.8	5436.2
10°	4100.6	4127.5	4191.0	4282.5	4420.5	4618.3	4827.0	4857.5	5140.8	5426.4	5585.1
12.5°	3760.0	3775.9	3852.8	3984.7	4187.3	4438.8	4713.5	4753.8	5120.0	5519.2	5760.9
15°	3501.2	3508.6	3581.8	3718.5	3950.5	4277.7	4625.6	4674.4	5124.9	5630.3	5952.6
17.5°	3435.3	3439.0	3478.0	3572.0	3777.1	4133.6	4556.0	4615.8	5139.5	5738.9	6145.5
20°	3702.7	3677.0	3636.7	3622.1	3710.0	4046.9	4514.5	4581.6	5159.1	5835.4	6318.8
22.5°	4436.4	4360.7	4193.4	3970.0	3834.5	4053.0	4525.5	4592.6	5221.3	5953.8	6519.0
25°	5525.3	5420.3	5135.9	4696.4	4274.0	4228.8	4617.0	4685.4	5342.2	6095.4	6710.7
27.5°	6764.4	6660.6	6312.7	5685.2	4965.0	4576.8	4827.0	4890.5	5521.6	6221.2	6857.2
30°	7951.0	7921.7	7511.5	6798.6	5834.2	5140.8	5098.0	5151.7	5654.7	6296.8	6973.2
32.5°	8957.0	8910.6	8580.9	7887.5	6829.1	5818.3	5416.7	5432.5	5754.8	6394.5	7124.5
35°	9889.6	9832.3	9542.9	8887.4	7849.7	6646.0	5907.4	5884.2	5973.3	6591.1	7344.3
37.5°	10703.9	10756.4	10435.3	9811.5	8765.3	7506.7	6569.1	6499.5	6315.2	6910.9	7662.9
40°	11385.1	11385.1	11217.9	10697.8	9754.1	8396.6	7317.4	7225.9	6829.1	7404.1	8067.0
42.5°	11630.5	11683.0	11745.2	11451.0	10639.2	9322.0	8151.2	8056.0	7553.0	8103.6	8577.3
45°	11645.1	11728.2	12046.8	12045.6	11438.8	10241.2	9091.2	9046.1	8480.8	9002.1	9209.7
47.5°	11438.8	11542.6	12067.5	12365.4	12072.4	11097.0	10119.1	10063.0	9571.0	10103.3	9871.3
50°	11120.2	11235.0	11845.3	12491.1	12503.4	11841.7	11202.0	11117.8	10771.1	11361.9	10555.0
52.5°	10550.1	10772.3	11646.4	12520.4	12786.6	12485.0	12232.3	12195.7	12113.9	12574.2	11099.4
55°	9330.5	9577.1	11147.1	12530.2	13049.0	13055.2	13198.0	13207.8	13372.6	13707.1	11504.7
57.5°	8754.3	8893.5	10275.4	12576.6	13438.5	13702.2	14181.9	14257.6	14512.8	14782.6	11967.4
60°	8391.7	8556.5	9845.7	12513.1	14050.1	14550.6	15093.9	15119.5	15393.0	15892.3	12593.7
62.5°	8102.4	8264.8	9574.7	12269.0	14737.4	15571.2	15985.1	15987.5	16192.6	17214.4	13305.4
65°	7388.2	7525.0	9026.5	11994.3	15191.5	16580.8	17020.3	17004.4	17171.7	18608.5	14131.9
67.5°	6355.4	6460.4	7907.1	10952.9	15020.6	17498.8	18582.9	18530.4	18327.8	19813.5	14456.6
70°	4913.7	4951.5	6232.1	9127.9	13419.0	17851.6	20093.0	20066.2	19037.0	19597.4	13266.4
71°	4061.6	4186.1	5492.3	8056.0	12345.9	17525.7	20239.5	20255.4	18858.8	19009.0	12447.2
72.5°	2358.6	2464.8	3981.0	6187.0	10481.7	16165.7	19480.2	19594.9	18026.2	17290.1	10631.9
75°	505.4	540.8	1475.9	2994.6	5765.8	11330.2	15375.9	15784.8	14692.2	11762.3	6407.9
77.5°	351.6	379.7	632.4	1358.7	1905.7	5598.6	9551.5	10012.9	8777.5	4420.5	2050.9
80°	278.3	310.1	493.2	671.4	515.2	1805.6	4474.2	4756.2	2927.5	986.4	345.5
82.5°	155.0	184.3	384.5	362.6	197.8	343.0	1252.5	1416.1	586.0	199.0	81.8
85°	45.2	54.9	247.8	263.7	84.2	65.9	213.6	264.9	111.1	52.5	36.6
87.5°	0.0	0.0	119.6	101.3	24.4	9.8	19.5	22.0	22.0	22.0	24.4
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°	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3	5243.3
2.5°	5264.1	5272.6	5242.1	5201.8	5159.1	5106.6	5051.6	5008.9	5007.7	4986.9	4966.2
5°	5328.8	5323.9	5239.6	5111.5	4960.1	4802.6	4652.4	4482.7	4426.6	4357.0	4333.8
7.5°	5448.4	5414.2	5236.0	4955.2	4623.1	4293.5	3952.9	3609.9	3463.4	3331.5	3308.3
10°	5598.6	5533.9	5212.8	4720.8	4111.6	3503.7	2989.7	2523.4	2318.3	2160.8	2153.5
12.5°	5754.8	5655.9	5148.1	4366.8	3441.4	2586.9	1994.8	1535.8	1364.8	1255.0	1264.7
15°	5918.4	5770.7	5008.9	3889.4	2678.4	1755.5	1225.7	955.9	887.5	859.4	866.8
17.5°	6085.7	5850.0	4814.8	3314.5	1925.2	1132.9	848.5	772.8	772.8	778.9	781.3
20°	6230.9	5892.8	4529.1	2669.9	1305.0	825.3	742.2	731.3	737.4	747.1	748.3
22.5°	6375.0	5895.2	4156.8	2016.7	913.2	722.7	706.8	702.0	705.6	716.6	717.8
25°	6492.2	5865.9	3690.5	1434.4	728.8	681.2	673.9	671.4	673.9	687.3	687.3
27.5°	6539.8	5759.7	3121.6	1008.4	653.1	634.8	632.4	634.8	638.5	648.2	649.5
30°	6544.7	5574.1	2501.4	730.0	592.1	572.6	577.4	586.0	582.3	579.9	582.3
32.5°	6556.9	5359.3	1897.1	600.6	540.8	510.3	504.2	504.2	489.5	481.0	476.1
35°	6597.2	5106.6	1375.8	539.6	488.3	452.9	429.7	402.9	374.8	360.1	356.5
37.5°	6660.6	4841.7	985.2	499.3	441.9	401.6	357.7	310.1	269.8	258.8	258.8
40°	6776.6	4568.2	728.8	467.6	405.3	355.3	289.3	227.1	190.4	184.3	184.3
42.5°	6959.7	4280.1	581.1	439.5	373.6	307.6	221.0	164.8	137.9	134.3	133.1
45°	7150.2	3962.7	507.8	412.6	339.4	252.7	163.6	122.1	106.2	102.5	102.5
47.5°	7340.6	3624.5	472.4	387.0	306.4	196.5	122.1	96.4	89.1	89.1	90.3
50°	7501.8	3271.7	446.8	358.9	263.7	148.9	96.4	81.8	79.4	84.2	85.5
52.5°	7542.1	2925.0	415.1	323.5	211.2	113.5	79.4	72.0	72.0	72.0	72.0
55°	7517.6	2656.4	373.6	279.6	156.3	90.3	68.4	63.5	62.3	62.3	62.3
57.5°	7600.7	2497.7	299.1	217.3	112.3	73.2	59.8	56.2	53.7	52.5	52.5
60°	7767.9	2394.0	213.6	156.3	84.2	61.0	51.3	47.6	43.9	41.5	41.5
62.5°	7990.1	2303.6	158.7	116.0	64.7	48.8	42.7	39.1	34.2	31.7	31.7
65°	8161.0	2142.5	120.9	86.7	48.8	39.1	33.0	31.7	24.4	22.0	20.8
67.5°	7899.7	1788.5	97.7	63.5	36.6	30.5	25.6	24.4	14.6	12.2	12.2
70°	6775.4	1245.2	78.1	46.4	26.9	24.4	20.8	15.9	11.0	9.8	9.8
71°	6144.2	1040.1	70.8	39.1	23.2	23.2	19.5	13.4	9.8	8.5	8.5
72.5°	5104.1	738.6	59.8	30.5	20.8	24.4	20.8	12.2	9.8	8.5	7.3
75°	2962.9	308.9	41.5	20.8	15.9	29.3	26.9	11.0	7.3	6.1	6.1
77.5°	891.2	113.5	23.2	13.4	12.2	25.6	30.5	9.8	3.7	1.2	1.2
80°	162.4	48.8	14.6	8.5	8.5	15.9	23.2	4.9	0.0	0.0	0.0
82.5°	57.4	24.4	8.5	4.9	3.7	7.3	11.0	0.0	0.0	0.0	0.0
85°	33.0	17.1	4.9	2.4	0.0	1.2	2.4	0.0	0.0	0.0	0.0
87.5°	22.0	4.9	0.0	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)