

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: P321530

Luminaire Tested: **GAN-SA6C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321530
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-SA6C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 27208 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

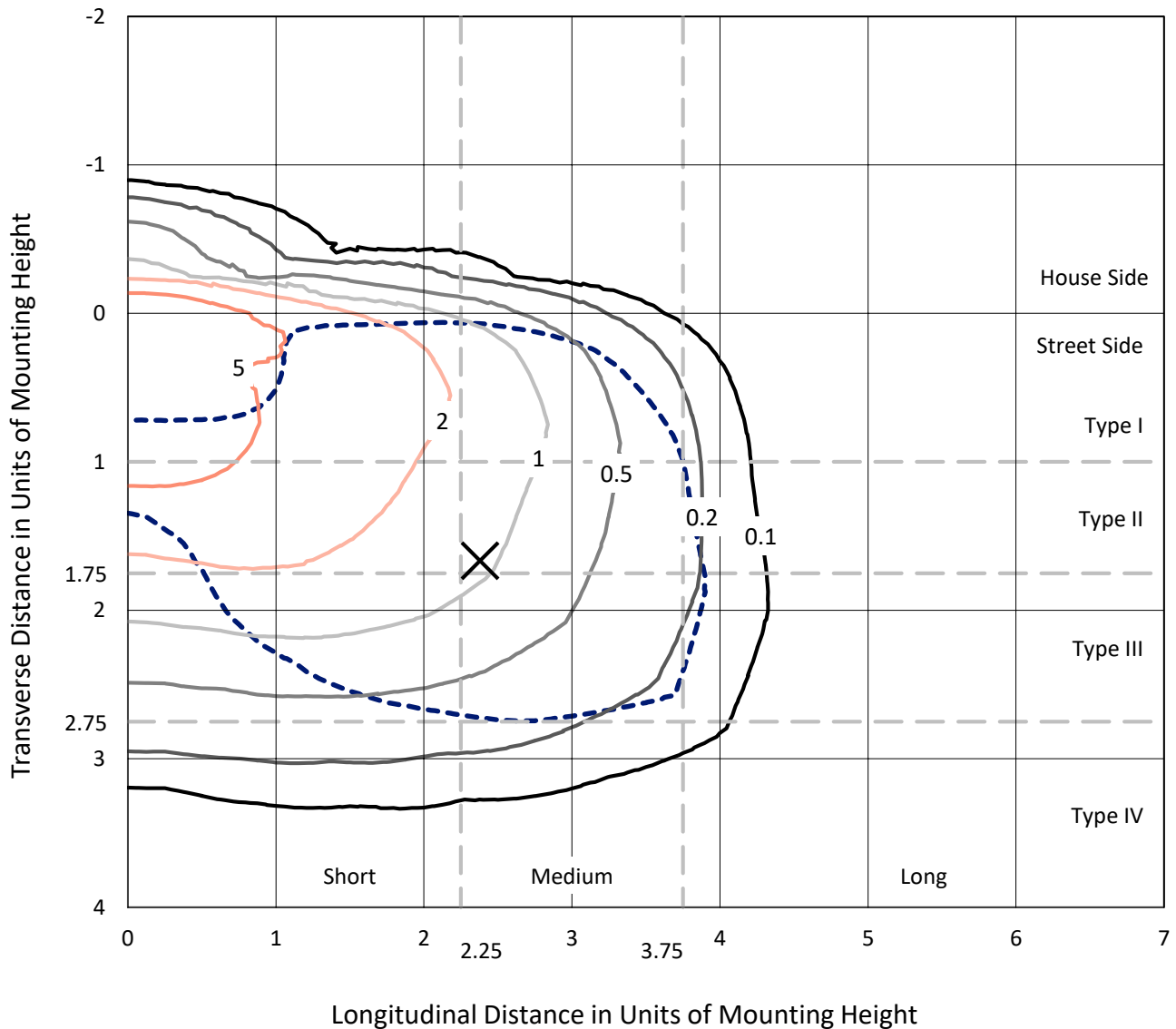
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

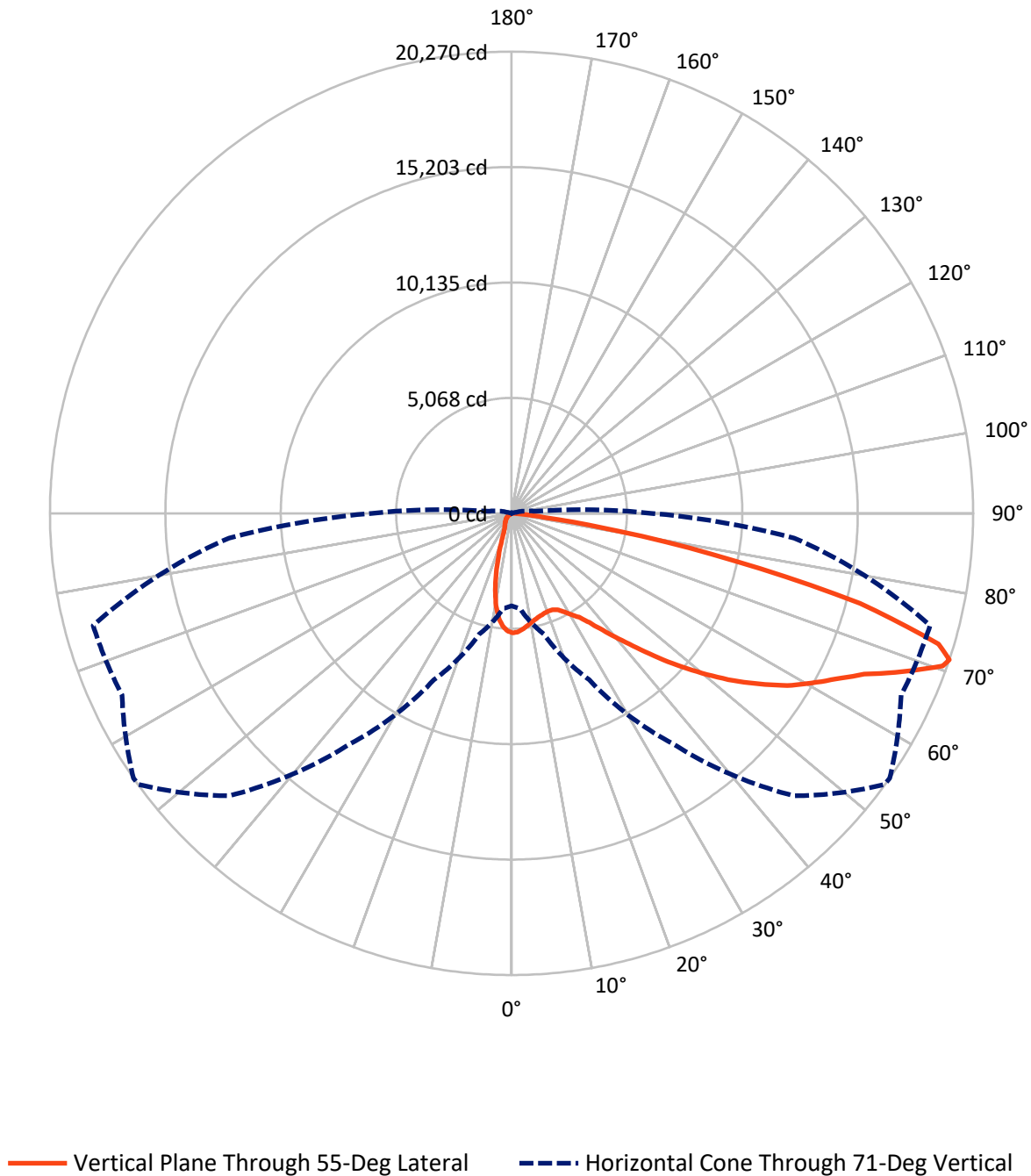
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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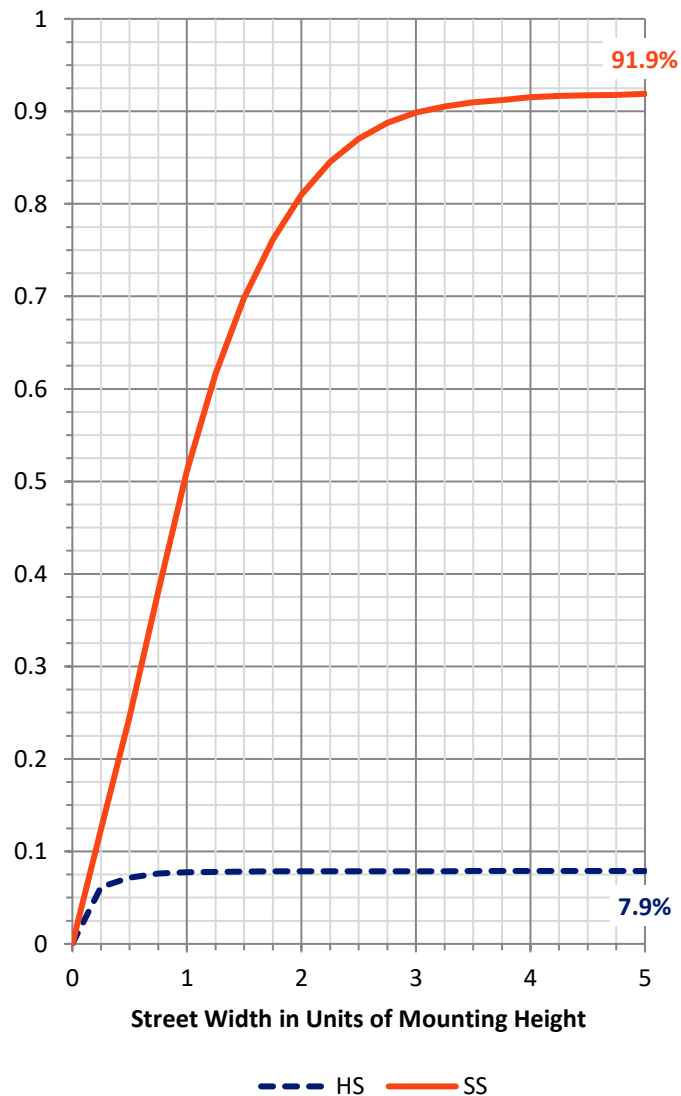
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.1	0.0	2154.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	25053.9	0.0	25053.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	27208.0	0.0	27208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	1.6
10°-20°	1010.0	3.7
20°-30°	1623.1	6.0
30°-40°	2757.8	10.1
40°-50°	4280.4	15.7
50°-60°	5754.9	21.2
60°-70°	7040.2	25.9
70°-80°	4116.2	15.1
80°-90°	177.9	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°	27208.0	100.0
0°-180°	27208.0	100.0

Coefficient of Utilization



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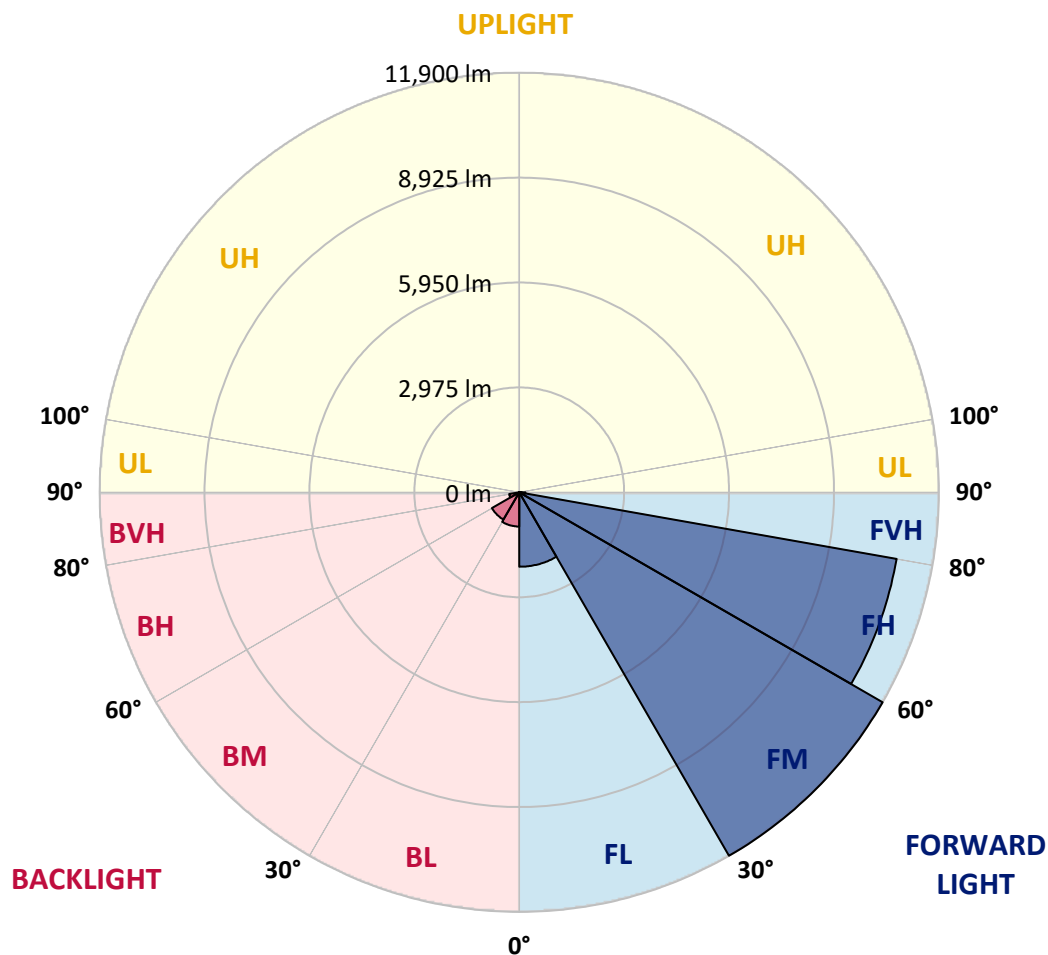
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.0	7.8			
FM	(30°-60°)	11900.0	43.7			
FH	(60°-80°)	10867.8	39.9			G4/12000
FVH	(80°-90°)	175.1	0.6			G2/225
BL	(0°-30°)	969.6	3.6	B2/1000		
BM	(30°-60°)	893.1	3.3	B1/1000		
BH	(60°-80°)	288.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2
2.5°	5093.2	5099.3	5121.3	5131.1	5154.3	5193.4	5213.0	5214.2	5245.9	5258.2	5267.9
5°	4732.8	4769.5	4806.1	4845.2	4916.1	5010.2	5103.0	5111.6	5214.2	5289.9	5330.2
7.5°	4422.5	4455.5	4499.5	4561.8	4662.0	4809.8	4964.9	4983.3	5177.5	5349.8	5440.2
10°	4103.7	4130.5	4194.1	4285.7	4423.7	4621.7	4830.6	4861.1	5144.5	5430.4	5589.2
12.5°	3762.8	3778.7	3855.7	3987.6	4190.4	4442.1	4716.9	4757.3	5123.8	5523.3	5765.2
15°	3503.8	3511.1	3584.4	3721.3	3953.4	4280.8	4629.0	4677.9	5128.7	5634.4	5957.0
17.5°	3437.8	3441.5	3480.6	3574.7	3779.9	4136.6	4559.3	4619.2	5143.3	5743.2	6150.0
20°	3705.4	3679.7	3639.4	3624.8	3712.7	4049.9	4517.8	4585.0	5162.9	5839.7	6323.5
22.5°	4439.6	4363.9	4196.5	3972.9	3837.3	4056.0	4528.8	4596.0	5225.2	5958.2	6523.8
25°	5529.4	5424.3	5139.7	4699.8	4277.1	4231.9	4620.4	4688.8	5346.1	6099.9	6715.6
27.5°	6769.4	6665.5	6317.4	5689.4	4968.6	4580.1	4830.6	4894.1	5525.7	6225.7	6862.2
30°	7956.9	7927.5	7517.1	6803.6	5838.5	5144.5	5101.8	5155.5	5658.9	6301.5	6978.3
32.5°	8963.5	8917.1	8587.3	7893.3	6834.1	5822.6	5420.6	5436.5	5759.0	6399.2	7129.8
35°	9896.9	9839.5	9550.0	8893.9	7855.5	6650.9	5911.8	5888.5	5977.7	6595.9	7349.7
37.5°	10711.8	10764.3	10443.0	9818.7	8771.7	7512.2	6573.9	6504.3	6319.8	6916.0	7668.6
40°	11393.5	11393.5	11226.1	10705.7	9761.3	8402.8	7322.8	7231.2	6834.1	7409.6	8072.9
42.5°	11639.0	11691.6	11753.9	11459.5	10647.0	9328.8	8157.2	8061.9	7558.6	8109.6	8583.6
45°	11653.7	11736.8	12055.6	12054.4	11447.2	10248.8	9097.9	9052.7	8487.1	9008.7	9216.4
47.5°	11447.2	11551.1	12076.4	12374.5	12081.3	11105.2	10126.6	10070.4	9578.1	10110.7	9878.6
50°	11128.4	11243.2	11854.1	12500.3	12512.6	11850.4	11210.2	11125.9	10779.0	11370.3	10562.7
52.5°	10557.8	10780.2	11654.9	12529.7	12796.0	12494.2	12241.3	12204.7	12122.8	12583.4	11107.6
55°	9337.4	9584.2	11155.3	12539.4	13058.6	13064.8	13207.7	13217.5	13382.4	13717.1	11513.2
57.5°	8760.7	8900.0	10283.0	12585.9	13448.4	13712.3	14192.4	14268.1	14523.5	14793.4	11976.2
60°	8397.9	8562.8	9852.9	12522.3	14060.4	14561.3	15105.0	15130.6	15404.3	15904.0	12603.0
62.5°	8108.4	8270.8	9581.7	12278.0	14748.2	15582.7	15996.8	15999.3	16204.5	17227.1	13315.2
65°	7393.7	7530.5	9033.2	12003.1	15202.7	16593.0	17032.8	17016.9	17184.3	18622.2	14142.3
67.5°	6360.1	6465.2	7912.9	10961.0	15031.7	17511.7	18596.6	18544.0	18341.2	19828.0	14467.3
70°	4917.3	4955.2	6236.7	9134.6	13428.8	17864.8	20107.8	20080.9	19051.0	19611.8	13276.1
71°	4064.6	4189.2	5496.4	8061.9	12355.0	17538.6	20254.4	20270.3	18872.7	19022.9	12456.4
72.5°	2360.3	2466.6	3983.9	6191.5	10489.4	16177.6	19494.5	19609.4	18039.5	17302.8	10639.7
75°	505.8	541.2	1477.0	2996.8	5770.0	11338.5	15387.2	15796.5	14703.0	11771.0	6412.7
77.5°	351.8	379.9	632.8	1359.7	1907.1	5602.7	9558.5	10020.3	8784.0	4423.7	2052.4
80°	278.5	310.3	493.6	671.9	515.6	1806.9	4477.5	4759.7	2929.6	987.1	345.7
82.5°	155.2	184.5	384.8	362.8	197.9	343.3	1253.5	1417.2	586.4	199.1	81.9
85°	45.2	55.0	248.0	263.9	84.3	66.0	213.8	265.1	111.2	52.5	36.7
87.5°	0.0	0.0	119.7	101.4	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°	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2	5247.2
2.5°	5267.9	5276.5	5245.9	5205.6	5162.9	5110.3	5055.4	5012.6	5011.4	4990.6	4969.8
5°	5332.7	5327.8	5243.5	5115.2	4963.7	4806.1	4655.9	4486.0	4429.8	4360.2	4337.0
7.5°	5452.4	5418.2	5239.8	4958.8	4626.5	4296.7	3955.8	3612.5	3465.9	3334.0	3310.8
10°	5602.7	5537.9	5216.6	4724.3	4114.7	3506.3	2991.9	2525.2	2320.0	2162.4	2155.1
12.5°	5759.0	5660.1	5151.9	4370.0	3443.9	2588.8	1996.2	1536.9	1365.8	1255.9	1265.7
15°	5922.8	5774.9	5012.6	3892.3	2680.4	1756.8	1226.6	956.6	888.2	860.1	867.4
17.5°	6090.1	5854.3	4818.3	3316.9	1926.6	1133.7	849.1	773.3	773.3	779.4	781.9
20°	6235.5	5897.1	4532.5	2671.8	1306.0	825.9	742.8	731.8	737.9	747.7	748.9
22.5°	6379.7	5899.5	4159.9	2018.2	913.8	723.2	707.4	702.5	706.1	717.1	718.4
25°	6496.9	5870.2	3693.2	1435.5	729.3	681.7	674.4	671.9	674.4	687.8	687.8
27.5°	6544.6	5763.9	3123.9	1009.1	653.6	635.3	632.8	635.3	638.9	648.7	649.9
30°	6549.5	5578.2	2503.2	730.6	592.5	573.0	577.9	586.4	582.7	580.3	582.7
32.5°	6561.7	5363.2	1898.5	601.1	541.2	510.7	504.6	504.6	489.9	481.3	476.5
35°	6602.0	5110.3	1376.8	540.0	488.7	453.2	430.0	403.2	375.1	360.4	356.7
37.5°	6665.5	4845.2	985.9	499.7	442.3	401.9	358.0	310.3	270.0	259.0	259.0
40°	6781.6	4571.6	729.3	467.9	405.6	355.5	289.5	227.2	190.6	184.5	184.5
42.5°	6964.9	4283.2	581.5	439.8	373.8	307.9	221.1	164.9	138.1	134.4	133.2
45°	7155.4	3965.6	508.2	412.9	339.6	252.9	163.7	122.2	106.3	102.6	102.6
47.5°	7346.0	3627.2	472.8	387.3	306.6	196.7	122.2	96.5	89.2	89.2	90.4
50°	7507.3	3274.1	447.1	359.2	263.9	149.0	96.5	81.9	79.4	84.3	85.5
52.5°	7547.6	2927.2	415.4	323.7	211.4	113.6	79.4	72.1	72.1	72.1	72.1
55°	7523.2	2658.4	373.8	279.8	156.4	90.4	68.4	63.5	62.3	62.3	62.3
57.5°	7606.2	2499.6	299.3	217.5	112.4	73.3	59.9	56.2	53.8	52.5	52.5
60°	7773.6	2395.7	213.8	156.4	84.3	61.1	51.3	47.6	44.0	41.5	41.5
62.5°	7996.0	2305.3	158.8	116.1	64.7	48.9	42.8	39.1	34.2	31.8	31.8
65°	8167.0	2144.1	120.9	86.7	48.9	39.1	33.0	31.8	24.4	22.0	20.8
67.5°	7905.6	1789.8	97.7	63.5	36.7	30.5	25.7	24.4	14.7	12.2	12.2
70°	6780.4	1246.1	78.2	46.4	26.9	24.4	20.8	15.9	11.0	9.8	9.8
71°	6148.8	1040.9	70.9	39.1	23.2	23.2	19.5	13.4	9.8	8.6	8.6
72.5°	5107.9	739.1	59.9	30.5	20.8	24.4	20.8	12.2	9.8	8.6	7.3
75°	2965.0	309.1	41.5	20.8	15.9	29.3	26.9	11.0	7.3	6.1	6.1
77.5°	891.8	113.6	23.2	13.4	12.2	25.7	30.5	9.8	3.7	1.2	1.2
80°	162.5	48.9	14.7	8.6	8.6	15.9	23.2	4.9	0.0	0.0	0.0
82.5°	57.4	24.4	8.6	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)