

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: P322483

Luminaire Tested: **GAN-SA9B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30341 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

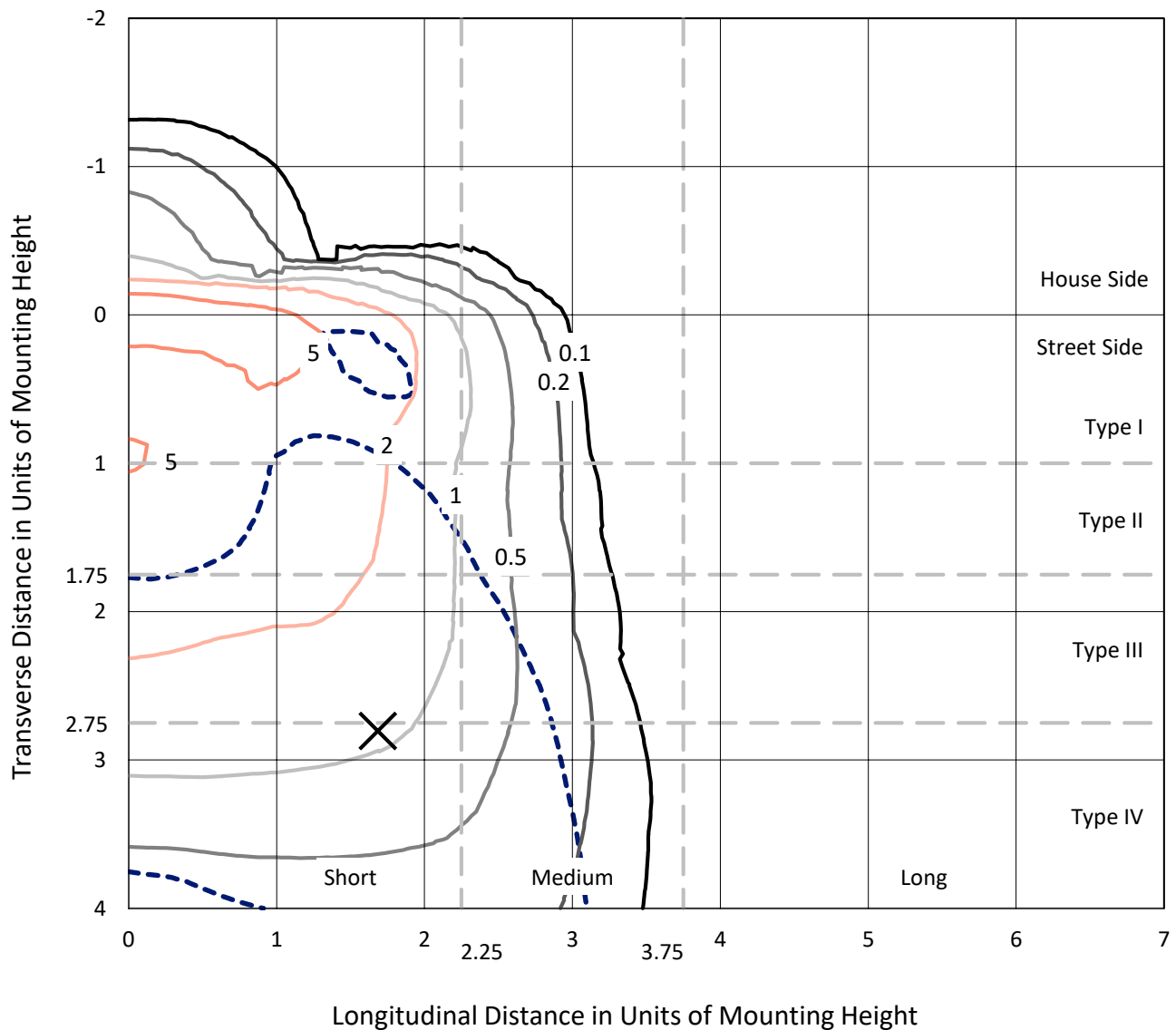
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

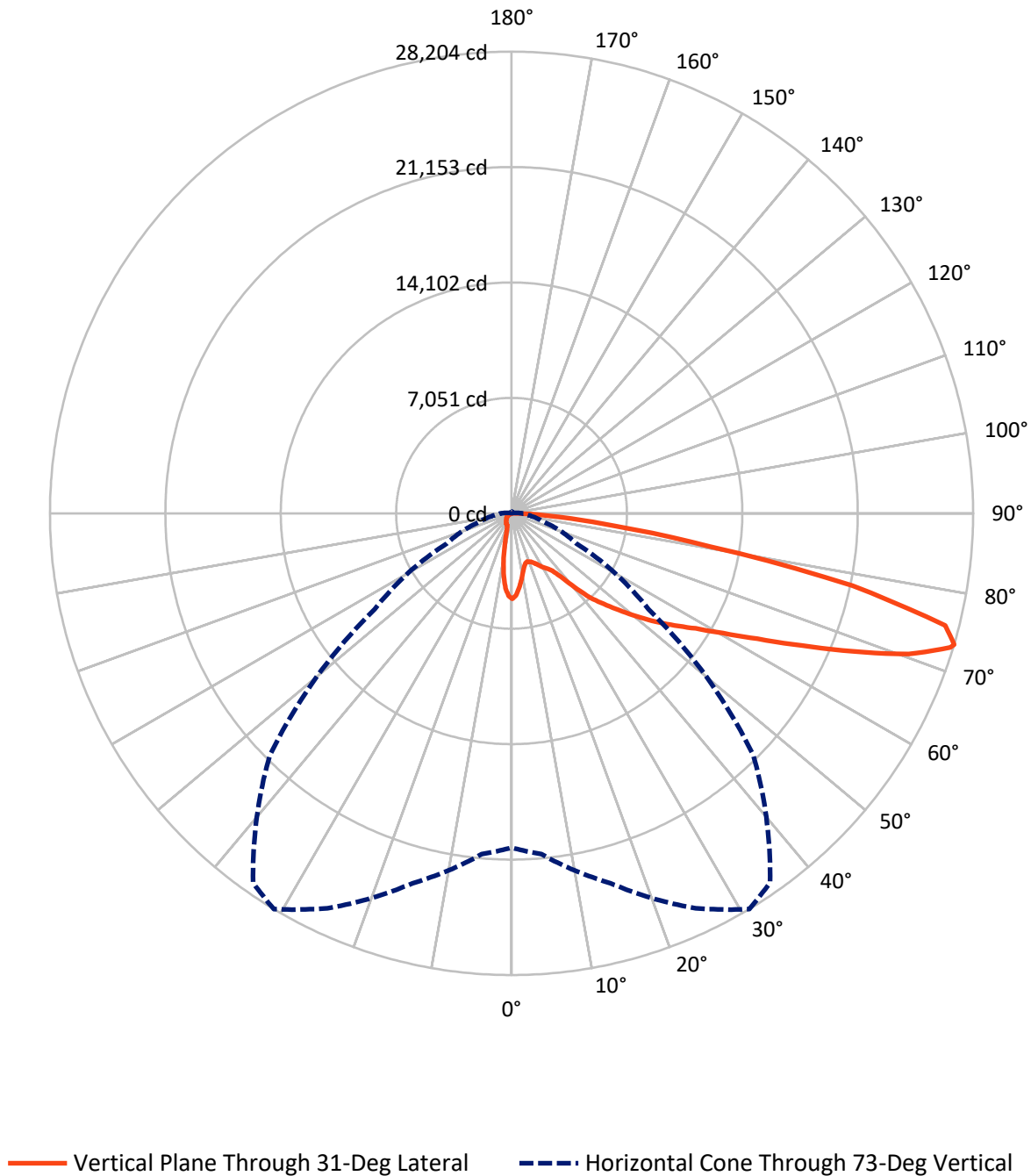
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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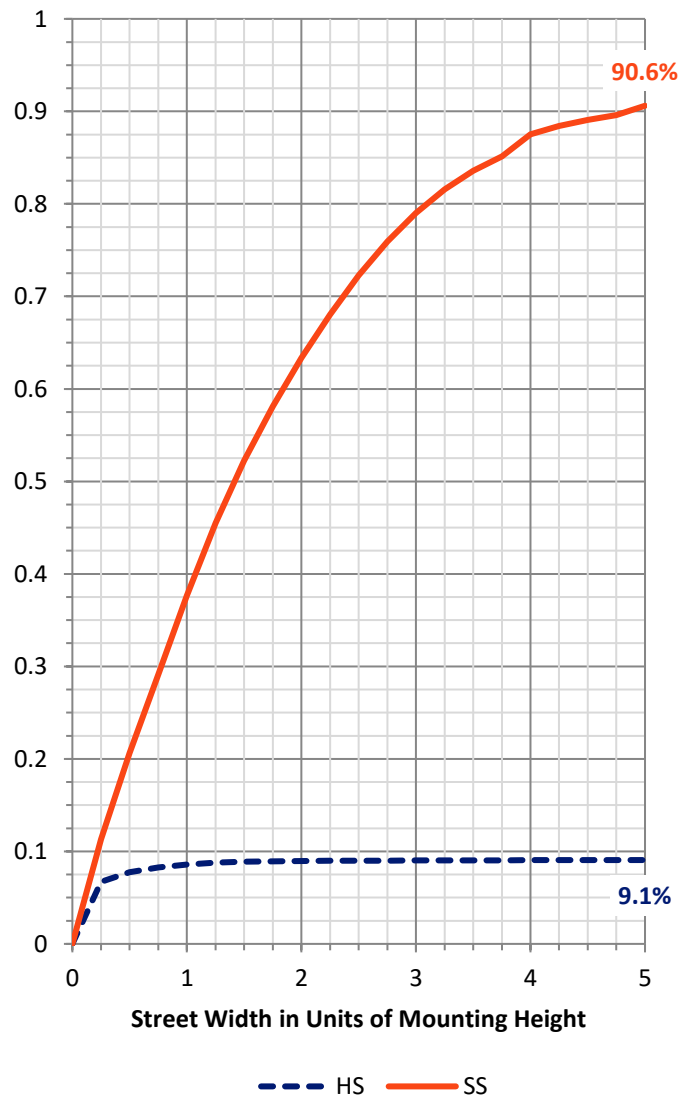
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.7	0.0	2765.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	27575.3	0.0	27575.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	30341.0	0.0	30341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	1.4
10°-20°	939.8	3.1
20°-30°	1408.1	4.6
30°-40°	2240.3	7.4
40°-50°	4000.5	13.2
50°-60°	6207.7	20.5
60°-70°	8252.2	27.2
70°-80°	6207.3	20.5
80°-90°	652.3	2.1
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°	30341.0	100.0
0°-180°	30341.0	100.0

Coefficient of Utilization



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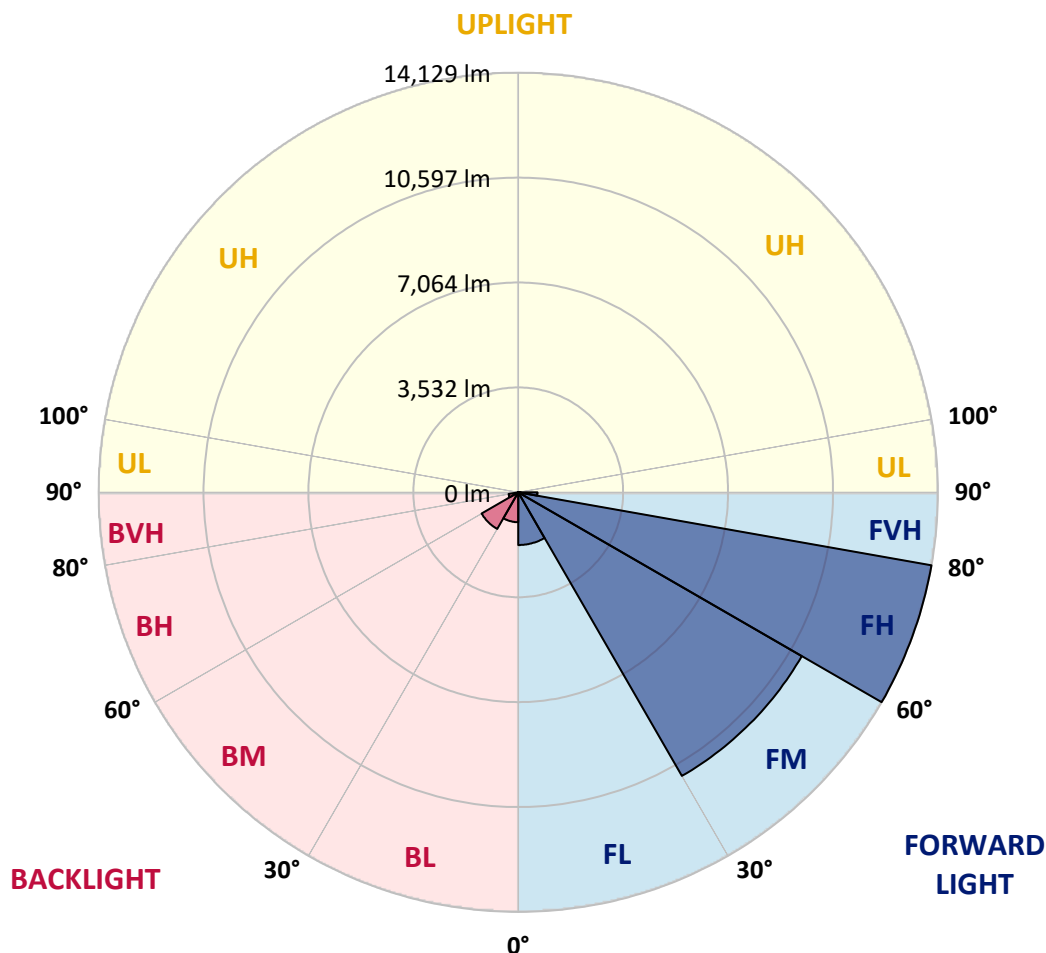
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1775.0	5.9			
FM	(30°-60°)	11024.9	36.3			
FH	(60°-80°)	14128.7	46.6			G5
FVH	(80°-90°)	646.8	2.1			G4/750
BL	(0°-30°)	1005.7	3.3	B3/2500		
BM	(30°-60°)	1423.6	4.7	B2/2500		
BH	(60°-80°)	330.9	1.1	B1/500		G1/500
BVH	(80°-90°)	5.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2
2.5°	4947.0	4967.8	4990.1	4994.6	5031.7	5033.2	5086.6	5126.7	5166.8	5205.4	5218.7
5°	4439.3	4473.4	4513.5	4553.6	4632.3	4663.5	4794.1	4927.7	5055.4	5177.2	5236.6
7.5°	3897.4	3936.0	3992.4	4091.9	4179.5	4240.3	4446.7	4684.3	4921.8	5146.0	5275.2
10°	3402.9	3438.6	3498.0	3603.4	3738.5	3821.6	4099.3	4428.9	4777.8	5117.8	5333.1
12.5°	3088.2	3107.5	3140.2	3253.0	3374.7	3468.3	3794.9	4203.2	4659.0	5116.3	5426.6
15°	3030.3	3036.2	3009.5	3060.0	3155.0	3245.6	3576.7	4020.6	4568.4	5140.1	5548.4
17.5°	3122.3	3119.4	3030.3	3024.3	3100.1	3174.3	3469.8	3894.4	4504.6	5195.0	5705.7
20°	3261.9	3251.5	3097.1	3068.9	3149.1	3218.8	3462.3	3846.9	4480.8	5287.0	5897.3
22.5°	3447.5	3429.7	3187.7	3158.0	3244.1	3316.8	3554.4	3892.9	4501.6	5410.3	6120.0
25°	3677.6	3650.9	3343.6	3310.9	3398.5	3471.2	3719.2	4025.0	4564.0	5560.2	6402.1
27.5°	3937.4	3898.8	3593.0	3508.4	3607.8	3683.6	3938.9	4227.0	4662.0	5719.1	6748.0
30°	4182.4	4131.9	3855.8	3716.2	3838.0	3922.6	4176.5	4467.5	4819.4	5964.1	7221.6
32.5°	4428.9	4372.5	4090.4	3924.1	4034.0	4126.0	4421.5	4798.6	5114.8	6338.2	7851.1
35°	4996.0	4936.7	4590.7	4316.0	4314.6	4366.5	4764.4	5251.4	5505.3	6859.3	8602.4
37.5°	5950.7	5916.6	5587.0	5065.8	4926.3	4868.4	5232.1	5791.8	6066.5	7576.5	9450.2
40°	6995.9	6966.2	6596.6	6124.4	5912.1	5769.6	5903.2	6544.6	6859.3	8452.4	10315.7
42.5°	8176.3	8035.2	7376.0	7235.0	7044.9	6936.6	6816.3	7472.5	7833.3	9405.6	11173.9
45°	9248.2	9010.7	8155.5	7941.7	7898.6	7925.4	7992.2	8719.7	8929.0	10538.5	12029.1
47.5°	9886.7	9699.6	9043.4	8838.5	8826.6	9003.3	9508.1	10128.7	10020.3	11525.8	12781.8
50°	10493.9	10324.7	9779.8	9830.2	9885.2	10125.7	11228.8	11577.7	11016.5	12421.1	13472.2
52.5°	10985.4	10727.0	10441.9	10725.5	10995.7	11383.3	13004.6	12878.4	11723.2	13133.7	14063.1
55°	11268.9	11151.6	11289.7	11574.8	12082.5	12712.1	14680.8	13960.7	12239.9	13784.0	14456.6
57.5°	12308.2	12078.1	12352.8	12599.2	13261.4	14141.8	16116.5	14766.9	12612.6	14186.4	14547.2
60°	13565.8	13380.2	13542.0	13951.8	14845.6	15880.4	17458.7	15424.6	12807.1	14444.7	14312.6
62.5°	15567.2	15322.2	15221.2	15680.0	16864.8	17994.7	18477.2	15880.4	12764.0	14330.4	13507.9
65°	18248.5	17994.7	17543.3	17959.0	19466.0	20263.3	19616.0	15976.9	12467.1	13405.4	11473.8
67.5°	20995.2	20811.1	20425.1	21125.9	22485.9	22742.7	20820.1	15742.4	11510.9	10869.5	8106.5
70°	22809.6	22730.9	22981.8	24531.8	25744.8	25670.6	21924.7	14481.8	8972.1	6684.2	4010.2
72.5°	21501.5	21878.6	23731.6	26542.1	28023.9	27418.1	21357.5	11120.5	5128.2	2571.5	1159.6
73°	20417.7	20900.2	23394.5	26617.8	28203.5	27539.8	20880.9	10207.4	4371.0	2029.6	878.9
75°	14204.2	14796.6	19368.0	24790.2	27363.2	26239.2	17405.2	6247.6	2025.1	899.7	354.8
77.5°	6896.5	7334.5	10664.7	17911.5	21280.3	20500.8	10835.4	2328.0	914.6	562.7	163.3
80°	2574.5	2862.5	4629.3	9116.1	12297.8	12620.0	4765.9	880.4	608.7	452.8	83.1
82.5°	674.1	751.3	1707.4	4065.1	6302.6	6596.6	1502.5	443.9	445.4	372.7	50.5
85°	215.3	246.5	533.0	1824.7	2969.4	2607.1	392.0	215.3	323.7	277.6	28.2
87.5°	26.7	34.1	169.3	429.1	654.8	363.8	60.9	63.8	138.1	154.4	16.3
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°	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2	5220.2
2.5°	5232.1	5224.7	5226.2	5187.6	5162.3	5111.8	5059.9	5036.1	5010.9	5000.5	5010.9
5°	5258.8	5245.5	5206.9	5088.1	4961.9	4798.6	4645.6	4529.8	4384.3	4344.3	4385.8
7.5°	5300.4	5273.7	5160.8	4918.8	4638.2	4326.4	3976.0	3720.7	3511.3	3376.2	3425.2
10°	5361.3	5310.8	5083.6	4672.4	4170.5	3618.2	3120.9	2733.3	2458.7	2345.8	2341.4
12.5°	5463.7	5368.7	4988.6	4351.7	3598.9	2862.5	2210.7	1790.6	1567.9	1423.8	1420.9
15°	5576.6	5437.0	4868.4	3967.1	2933.8	2050.4	1423.8	1104.6	960.6	914.6	908.6
17.5°	5714.6	5515.7	4712.5	3493.5	2237.5	1358.5	929.4	837.4	831.4	827.0	827.0
20°	5888.3	5609.2	4512.0	2951.6	1587.2	907.2	789.9	795.8	798.8	792.8	794.3
22.5°	6090.3	5704.2	4273.0	2369.6	1073.4	758.7	755.7	763.1	766.1	763.1	764.6
25°	6324.9	5814.1	3982.0	1759.4	775.0	720.1	727.5	737.9	745.3	745.3	745.3
27.5°	6615.9	5947.7	3631.6	1227.9	669.6	680.0	700.8	720.1	730.5	733.4	733.4
30°	6994.5	6114.0	3211.4	841.8	608.7	626.5	665.1	702.3	721.6	724.5	726.0
32.5°	7472.5	6301.1	2724.4	622.1	556.8	570.1	611.7	674.1	711.2	717.1	717.1
35°	8020.4	6517.9	2200.3	541.9	519.6	524.1	556.8	628.0	693.4	709.7	711.2
37.5°	8620.2	6731.7	1673.3	506.3	488.5	488.5	512.2	573.1	650.3	700.8	706.7
40°	9179.9	6860.8	1172.9	478.1	460.3	460.3	481.0	525.6	598.3	674.1	690.4
42.5°	9696.6	6905.4	816.6	451.4	433.5	438.0	455.8	491.4	546.4	622.1	636.9
45°	10228.1	6898.0	595.4	420.2	406.8	420.2	433.5	460.3	500.3	543.4	546.4
47.5°	10629.0	6835.6	472.1	390.5	381.6	399.4	411.3	429.1	451.4	448.4	448.4
50°	11004.7	6684.2	380.1	350.4	356.3	377.1	383.1	389.0	390.5	362.3	359.3
52.5°	11289.7	6448.1	304.4	307.3	331.1	351.9	345.9	337.0	322.2	288.0	282.1
55°	11384.7	5993.8	239.0	253.9	294.0	320.7	298.4	279.1	250.9	222.7	216.8
57.5°	11212.5	5407.3	194.5	197.5	247.9	270.2	245.0	222.7	191.5	167.8	163.3
60°	10847.3	4755.5	160.3	148.5	191.5	210.8	194.5	172.2	144.0	126.2	124.7
62.5°	10122.7	4060.7	132.1	115.8	145.5	161.8	151.4	135.1	111.4	99.5	98.0
65°	8599.4	3248.5	106.9	93.5	112.8	126.2	117.3	105.4	87.6	78.7	77.2
67.5°	6002.7	2195.9	87.6	77.2	89.1	99.5	92.1	86.1	69.8	68.3	69.8
70°	2895.2	1058.6	72.8	62.4	69.8	77.2	74.2	69.8	66.8	77.2	89.1
72.5°	830.0	354.8	57.9	52.0	56.4	60.9	63.8	62.4	72.8	93.5	108.4
73°	638.4	286.5	54.9	49.0	53.4	59.4	62.4	60.9	74.2	95.0	108.4
75°	273.2	138.1	41.6	40.1	44.5	52.0	54.9	54.9	74.2	96.5	103.9
77.5°	123.2	74.2	26.7	31.2	38.6	41.6	46.0	46.0	59.4	74.2	74.2
80°	69.8	40.1	20.8	23.8	28.2	28.2	28.2	25.2	26.7	29.7	32.7
82.5°	44.5	26.7	16.3	19.3	17.8	14.8	11.9	11.9	10.4	11.9	14.8
85°	25.2	14.8	14.8	11.9	7.4	5.9	7.4	5.9	1.5	0.0	1.5
87.5°	14.8	8.9	4.5	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)