

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: P321714

Luminaire Tested: **GAN-SA0A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321714
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-SA0A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA 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: 26079 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

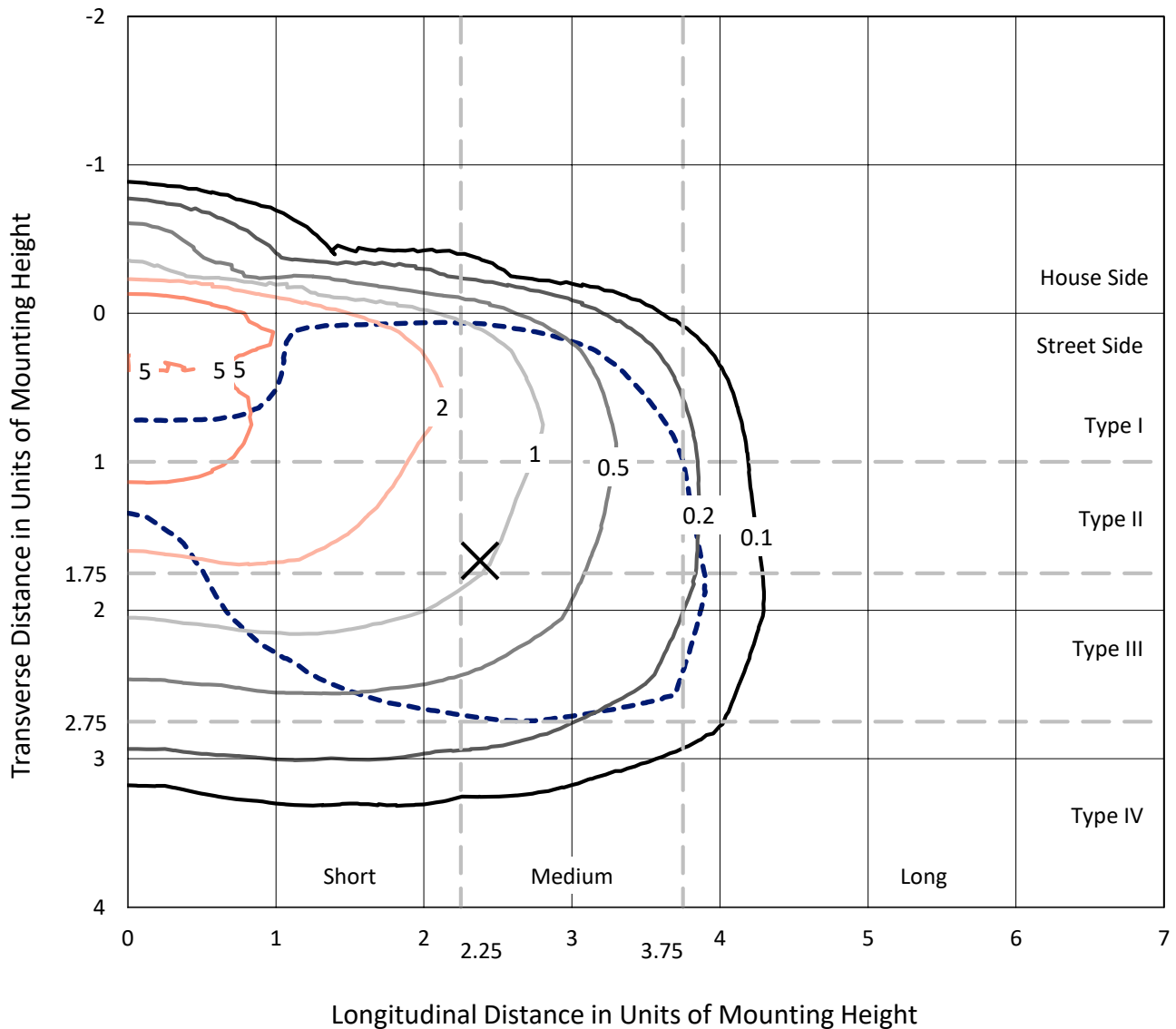
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

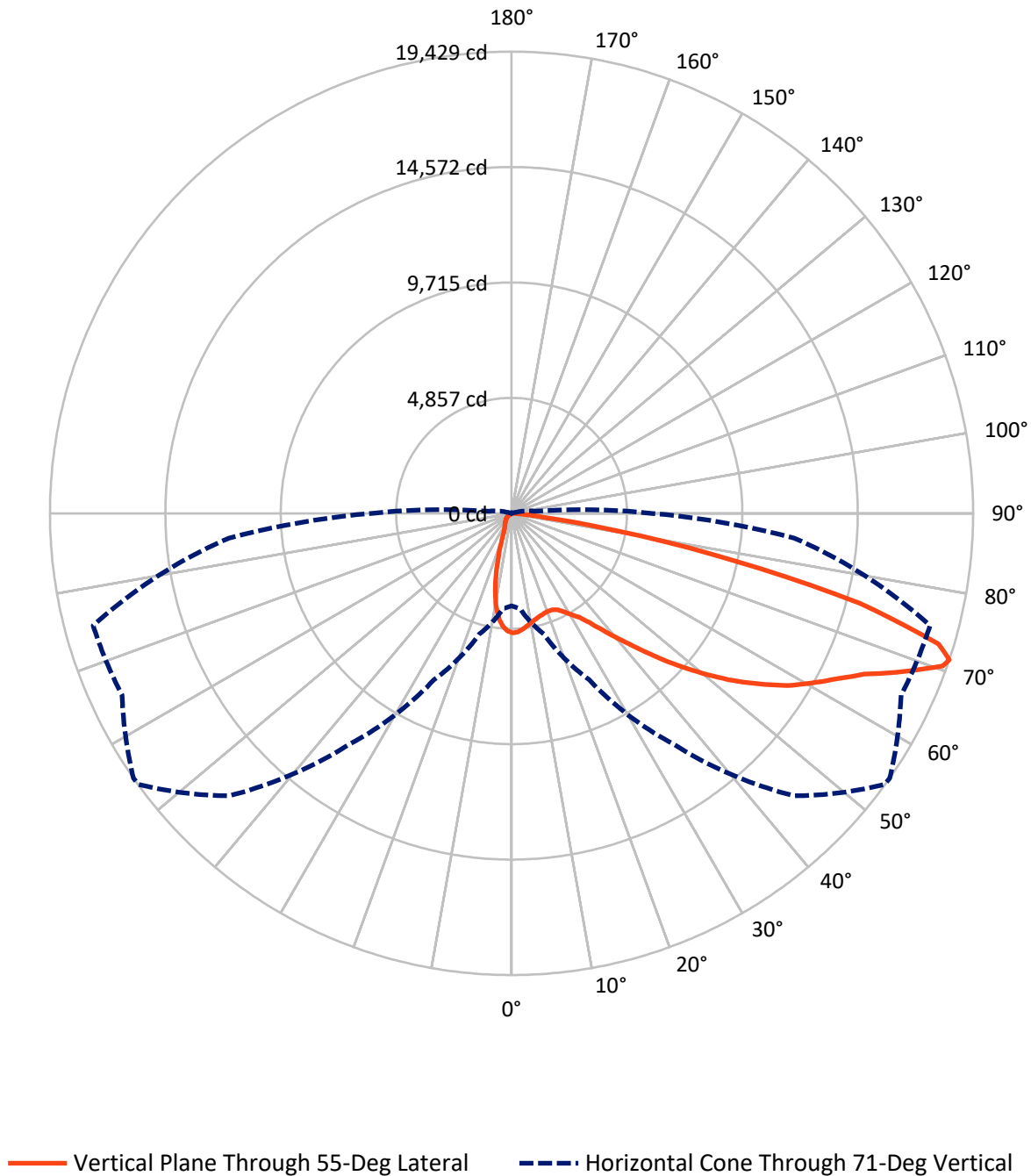
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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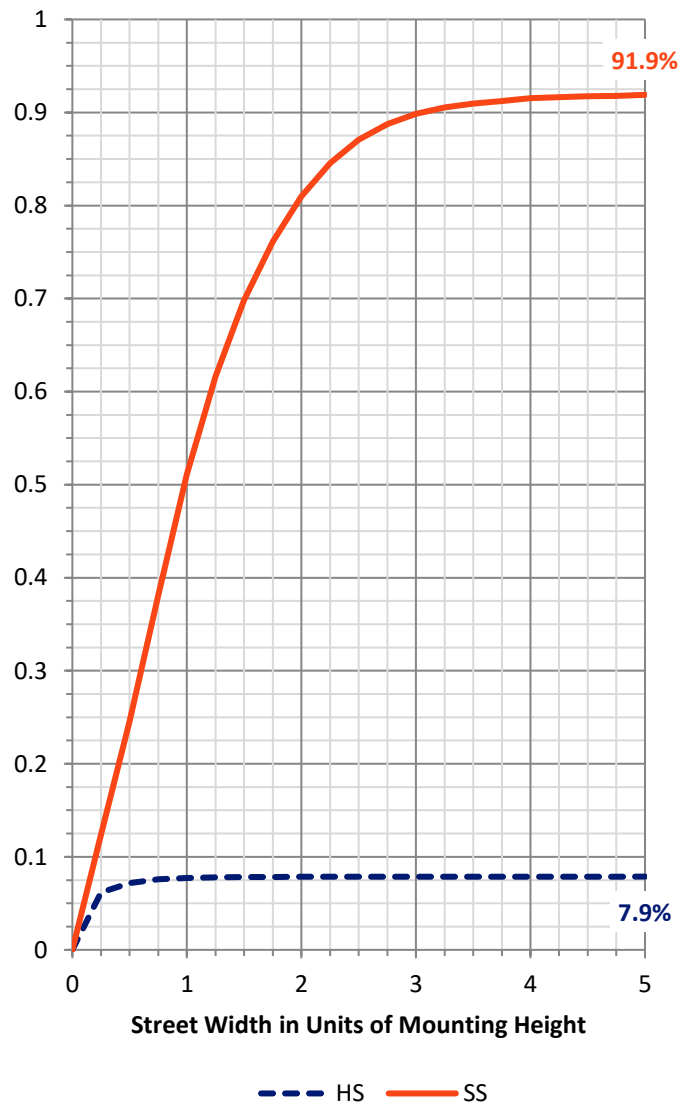
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.7	0.0	2064.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	24014.3	0.0	24014.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	26079.0	0.0	26079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	1.6
10°-20°	968.1	3.7
20°-30°	1555.8	6.0
30°-40°	2643.4	10.1
40°-50°	4102.8	15.7
50°-60°	5516.1	21.2
60°-70°	6748.0	25.9
70°-80°	3945.4	15.1
80°-90°	170.5	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°	26079.0	100.0
0°-180°	26079.0	100.0

Coefficient of Utilization



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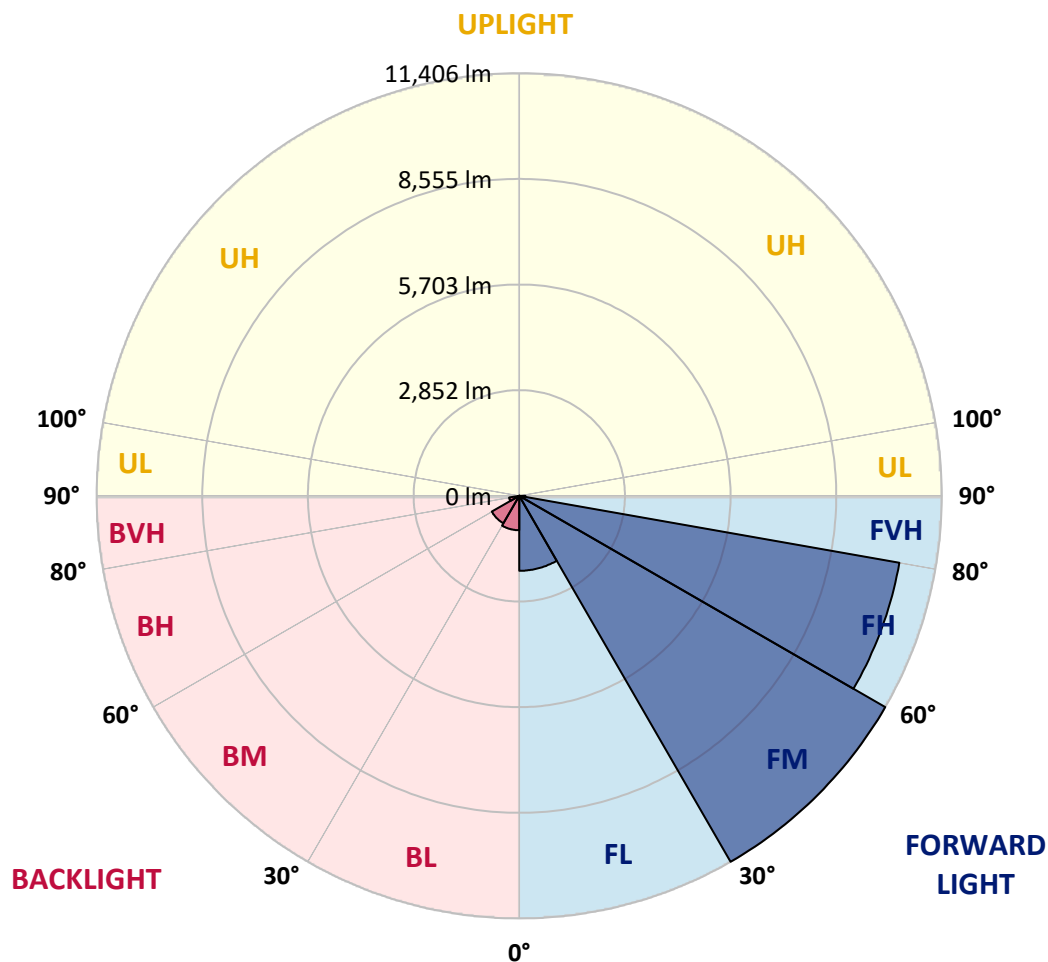
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.4	7.8			
FM	(30°-60°)	11406.2	43.7			
FH	(60°-80°)	10416.8	39.9			G4/12000
FVH	(80°-90°)	167.9	0.6			G2/225
BL	(0°-30°)	929.3	3.6	B2/1000		
BM	(30°-60°)	856.1	3.3	B1/1000		
BH	(60°-80°)	276.6	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4
2.5°	4881.9	4887.7	4908.8	4918.2	4940.4	4977.9	4996.6	4997.8	5028.3	5040.0	5049.3
5°	4536.4	4571.6	4606.7	4644.2	4712.1	4802.3	4891.3	4899.4	4997.8	5070.4	5109.1
7.5°	4239.0	4270.6	4312.8	4372.5	4468.5	4610.2	4758.9	4776.5	4962.7	5127.8	5214.4
10°	3933.4	3959.1	4020.0	4107.9	4240.2	4429.9	4630.1	4659.4	4931.1	5205.1	5357.3
12.5°	3606.7	3621.9	3695.7	3822.1	4016.5	4257.7	4521.2	4559.9	4911.2	5294.1	5525.9
15°	3358.4	3365.4	3435.7	3566.9	3789.3	4103.2	4436.9	4483.7	4915.8	5400.6	5709.8
17.5°	3295.2	3298.7	3336.2	3426.3	3623.1	3965.0	4370.2	4427.5	4929.9	5504.9	5894.8
20°	3551.6	3527.0	3488.4	3474.3	3558.7	3881.9	4330.3	4394.7	4948.6	5597.4	6061.1
22.5°	4255.4	4182.8	4022.4	3808.1	3678.1	3887.7	4340.9	4405.3	5008.4	5710.9	6253.1
25°	5299.9	5199.2	4926.4	4504.8	4099.7	4056.3	4428.7	4494.3	5124.3	5846.8	6437.0
27.5°	6488.5	6389.0	6055.2	5453.3	4762.4	4390.1	4630.1	4691.0	5296.4	5967.4	6577.5
30°	7626.7	7598.6	7205.1	6521.3	5596.2	4931.1	4890.1	4941.6	5424.1	6040.0	6688.7
32.5°	8591.6	8547.1	8230.9	7565.8	6550.6	5581.0	5195.7	5210.9	5520.1	6133.7	6833.9
35°	9486.2	9431.2	9153.7	8524.9	7529.5	6374.9	5666.5	5644.2	5729.7	6322.2	7044.7
37.5°	10267.3	10317.6	10009.7	9411.3	8407.8	7200.5	6301.1	6234.4	6057.6	6629.0	7350.3
40°	10920.7	10920.7	10760.3	10261.4	9356.3	8054.1	7019.0	6931.1	6550.6	7102.1	7737.9
42.5°	11156.1	11206.4	11266.2	10983.9	10205.2	8941.7	7818.7	7727.4	7245.0	7773.1	8227.4
45°	11170.1	11249.8	11555.4	11554.2	10972.2	9823.5	8720.4	8677.1	8134.9	8634.9	8834.0
47.5°	10972.2	11071.8	11575.3	11861.0	11580.0	10644.4	9706.4	9652.5	9180.6	9691.2	9468.7
50°	10666.6	10776.7	11362.2	11981.6	11993.3	11358.7	10745.1	10664.3	10331.7	10898.5	10124.4
52.5°	10119.7	10332.9	11171.3	12009.7	12265.0	11975.8	11733.4	11698.3	11619.8	12061.3	10646.7
55°	8949.9	9186.5	10692.4	12019.1	12516.8	12522.6	12659.6	12669.0	12827.1	13147.9	11035.5
57.5°	8397.2	8530.7	9856.3	12063.6	12890.3	13143.3	13603.5	13676.1	13920.8	14179.6	11479.3
60°	8049.4	8207.5	9444.1	12002.7	13477.0	13957.1	14478.2	14502.8	14765.1	15244.0	12080.0
62.5°	7771.9	7927.6	9184.1	11768.5	14136.3	14936.1	15333.0	15335.4	15532.1	16512.2	12762.7
65°	7086.9	7218.0	8658.3	11505.0	14571.9	15904.5	16326.0	16310.8	16471.2	17849.5	13555.5
67.5°	6096.2	6196.9	7584.5	10506.2	14407.9	16785.1	17824.9	17774.6	17580.2	19005.3	13866.9
70°	4713.3	4749.6	5977.9	8755.5	12871.6	17123.5	19273.4	19247.7	18260.5	18798.0	12725.2
71°	3895.9	4015.3	5268.3	7727.4	11842.3	16810.8	19413.9	19429.2	18089.5	18233.6	11939.5
72.5°	2262.4	2364.2	3818.6	5934.6	10054.2	15506.3	18685.6	18795.7	17290.9	16584.8	10198.2
75°	484.8	518.8	1415.7	2872.5	5530.6	10868.0	14748.7	15141.0	14092.9	11282.5	6146.6
77.5°	337.2	364.2	606.6	1303.3	1827.9	5370.2	9161.9	9604.5	8419.5	4240.2	1967.3
80°	267.0	297.4	473.1	644.0	494.2	1731.9	4291.7	4562.2	2808.0	946.2	331.4
82.5°	148.7	176.8	368.9	347.8	189.7	329.0	1201.4	1358.4	562.1	190.9	78.5
85°	43.3	52.7	237.7	252.9	80.8	63.2	204.9	254.1	106.6	50.4	35.1
87.5°	0.0	0.0	114.8	97.2	23.4	9.4	18.7	21.1	21.1	21.1	23.4
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°	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4	5029.4
2.5°	5049.3	5057.5	5028.3	4989.6	4948.6	4898.3	4845.6	4804.6	4803.4	4783.5	4763.6
5°	5111.4	5106.7	5025.9	4903.0	4757.8	4606.7	4462.7	4299.9	4246.0	4179.3	4157.0
7.5°	5226.2	5193.4	5022.4	4753.1	4434.6	4118.4	3791.7	3462.6	3322.1	3195.6	3173.4
10°	5370.2	5308.1	5000.2	4528.2	3943.9	3360.8	2867.8	2420.4	2223.7	2072.7	2065.6
12.5°	5520.1	5425.2	4938.1	4188.7	3301.0	2481.3	1913.4	1473.1	1309.2	1203.8	1213.2
15°	5677.0	5535.3	4804.6	3730.8	2569.2	1683.9	1175.7	916.9	851.3	824.4	831.4
17.5°	5837.4	5611.4	4618.4	3179.3	1846.7	1086.7	813.8	741.2	741.2	747.1	749.4
20°	5976.8	5652.4	4344.4	2561.0	1251.8	791.6	712.0	701.4	707.3	716.6	717.8
22.5°	6114.9	5654.7	3987.2	1934.5	875.9	693.2	678.0	673.3	676.8	687.4	688.5
25°	6227.4	5626.6	3539.9	1375.9	699.1	653.4	646.4	644.0	646.4	659.3	659.3
27.5°	6273.0	5524.8	2994.2	967.2	626.5	608.9	606.6	608.9	612.4	621.8	623.0
30°	6277.7	5346.8	2399.4	700.3	567.9	549.2	553.9	562.1	558.6	556.2	558.6
32.5°	6289.4	5140.7	1819.7	576.1	518.8	489.5	483.6	483.6	469.6	461.4	456.7
35°	6328.1	4898.3	1319.7	517.6	468.4	434.4	412.2	386.4	359.5	345.4	341.9
37.5°	6389.0	4644.2	945.0	478.9	423.9	385.3	343.1	297.4	258.8	248.3	248.3
40°	6500.2	4381.9	699.1	448.5	388.8	340.8	277.5	217.8	182.7	176.8	176.8
42.5°	6675.8	4105.5	557.4	421.6	358.3	295.1	212.0	158.1	132.3	128.8	127.6
45°	6858.5	3801.1	487.1	395.8	325.5	242.4	156.9	117.1	101.9	98.4	98.4
47.5°	7041.2	3476.7	453.2	371.2	293.9	188.5	117.1	92.5	85.5	85.5	86.7
50°	7195.8	3138.3	428.6	344.3	252.9	142.9	92.5	78.5	76.1	80.8	82.0
52.5°	7234.4	2805.7	398.1	310.3	202.6	108.9	76.1	69.1	69.1	69.1	69.1
55°	7211.0	2548.1	358.3	268.2	149.9	86.7	65.6	60.9	59.7	59.7	59.7
57.5°	7290.6	2395.9	286.9	208.4	107.7	70.3	57.4	53.9	51.5	50.4	50.4
60°	7451.0	2296.3	204.9	149.9	80.8	58.5	49.2	45.7	42.2	39.8	39.8
62.5°	7664.2	2209.7	152.2	111.2	62.1	46.8	41.0	37.5	32.8	30.4	30.4
65°	7828.1	2055.1	115.9	83.1	46.8	37.5	31.6	30.4	23.4	21.1	19.9
67.5°	7577.5	1715.5	93.7	60.9	35.1	29.3	24.6	23.4	14.1	11.7	11.7
70°	6499.0	1194.4	74.9	44.5	25.8	23.4	19.9	15.2	10.5	9.4	9.4
71°	5893.6	997.7	67.9	37.5	22.2	22.2	18.7	12.9	9.4	8.2	8.2
72.5°	4895.9	708.5	57.4	29.3	19.9	23.4	19.9	11.7	9.4	8.2	7.0
75°	2842.0	296.3	39.8	19.9	15.2	28.1	25.8	10.5	7.0	5.9	5.9
77.5°	854.8	108.9	22.2	12.9	11.7	24.6	29.3	9.4	3.5	1.2	1.2
80°	155.7	46.8	14.1	8.2	8.2	15.2	22.2	4.7	0.0	0.0	0.0
82.5°	55.0	23.4	8.2	4.7	3.5	7.0	10.5	0.0	0.0	0.0	0.0
85°	31.6	16.4	4.7	2.3	0.0	1.2	2.3	0.0	0.0	0.0	0.0
87.5°	21.1	4.7	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)