

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: P321194

Luminaire Tested: **GAN-SA0A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31136 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

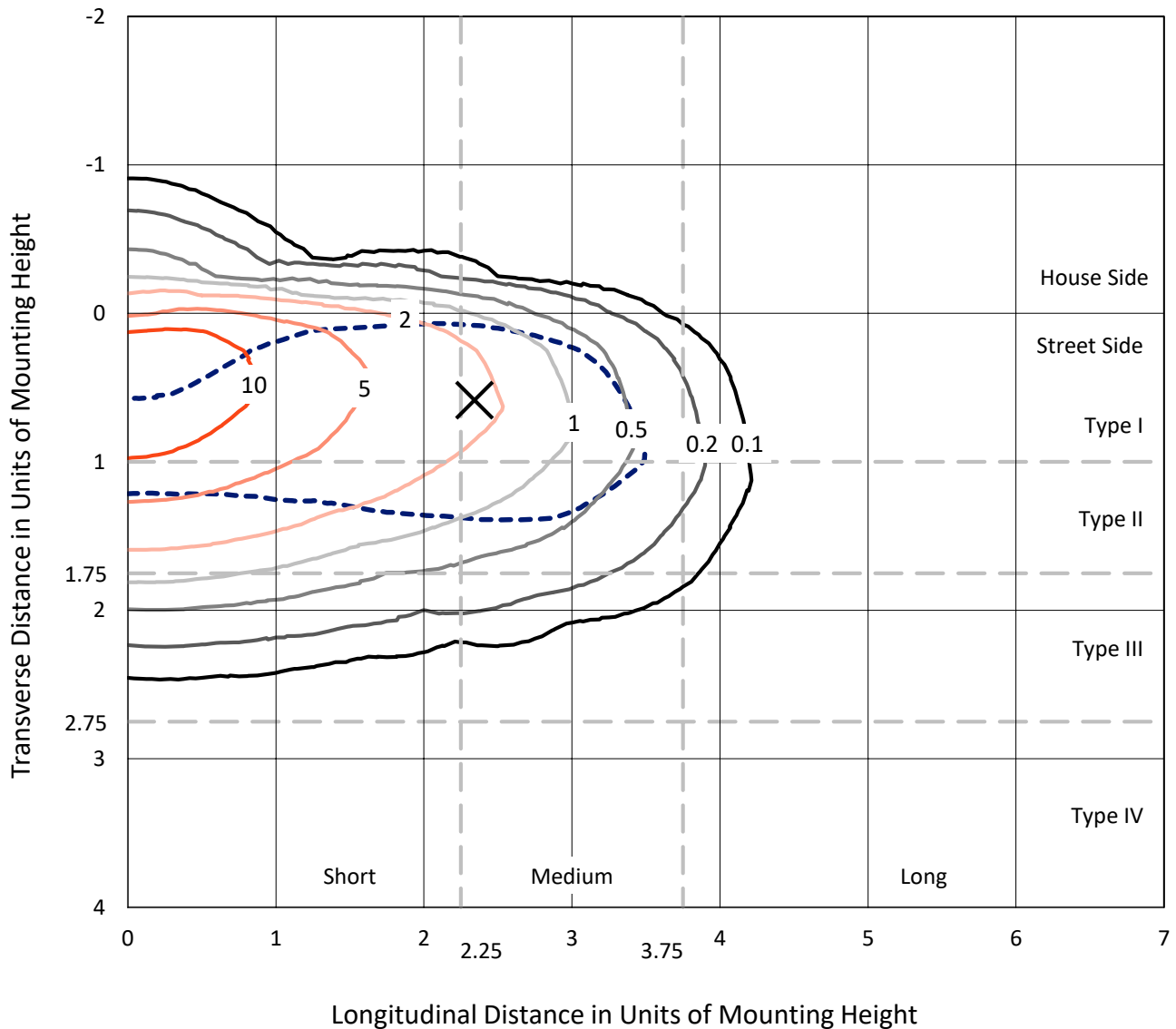
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

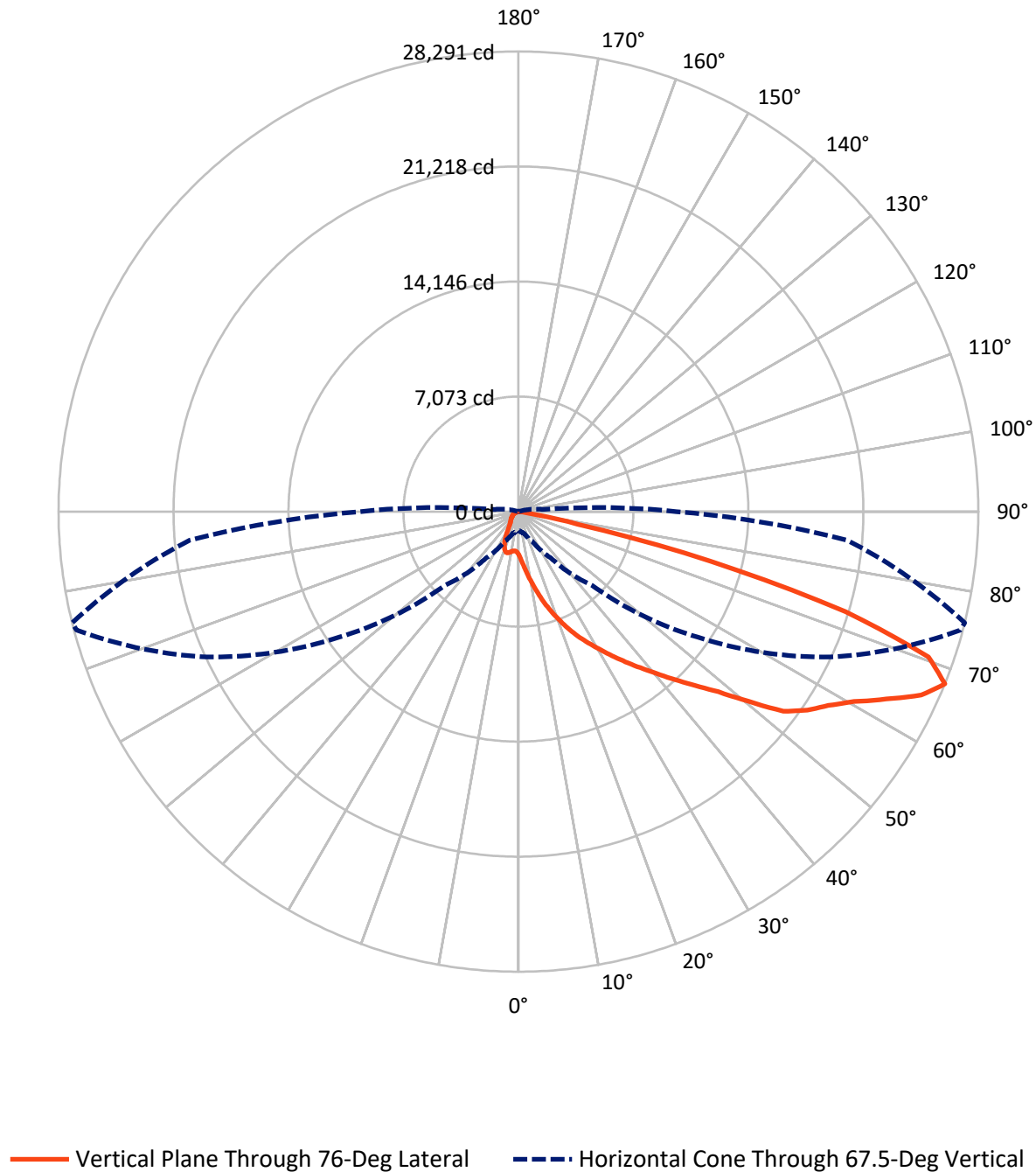
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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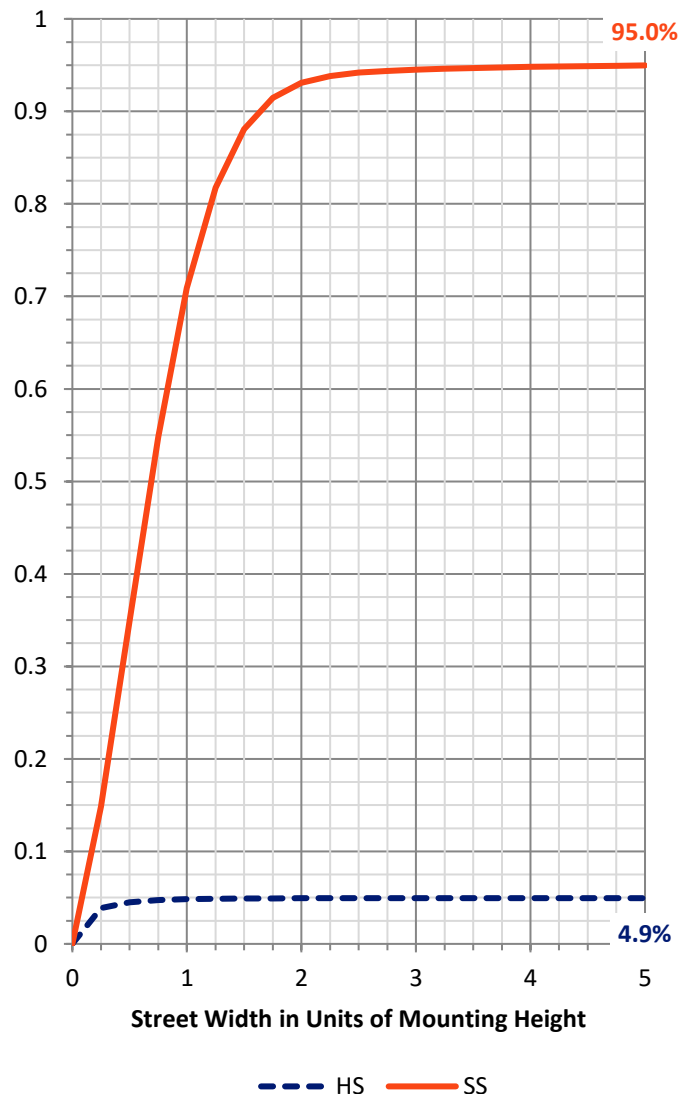
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1546.1	0.0	1546.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29589.9	0.0	29589.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	31136.0	0.0	31136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	1.1
10°-20°	1302.0	4.2
20°-30°	2649.1	8.5
30°-40°	4597.9	14.8
40°-50°	6496.2	20.9
50°-60°	7367.0	23.7
60°-70°	6110.3	19.6
70°-80°	2213.3	7.1
80°-90°	71.8	0.2
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°	31136.0	100.0
0°-180°	31136.0	100.0

Coefficient of Utilization



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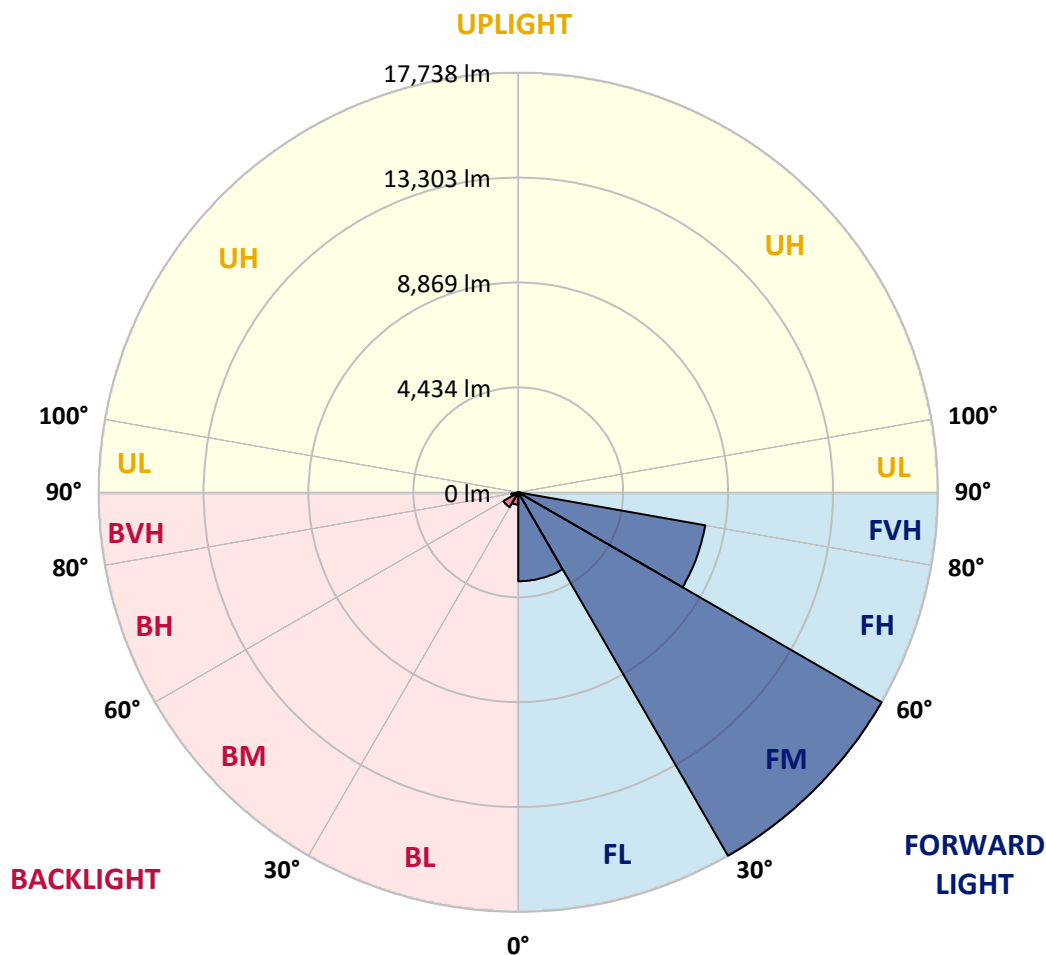
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3758.0	12.1			
FM	(30°-60°)	17737.6	57.0			
FH	(60°-80°)	8024.8	25.8			G4/12000
FVH	(80°-90°)	69.5	0.2			G1/100
BL	(0°-30°)	521.4	1.7	B2/1000		
BM	(30°-60°)	723.6	2.3	B1/1000		
BH	(60°-80°)	298.8	1.0	B1/500		G1/500
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: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2
2.5°	3942.8	3854.1	3874.5	3817.2	3713.6	3500.7	3319.3	3147.4	2946.8	2940.0	2774.9
5°	5316.6	5241.5	5232.0	5116.0	4927.8	4566.2	4214.2	3813.1	3365.7	3332.9	2982.3
7.5°	6563.5	6503.5	6481.7	6343.9	5993.3	5641.3	5182.9	4593.5	3893.6	3833.6	3262.0
10°	7521.2	7492.6	7498.1	7399.8	7099.7	6772.3	6170.6	5418.9	4492.6	4399.8	3597.6
12.5°	8247.0	8253.9	8303.0	8242.9	8075.1	7832.3	7189.7	6298.9	5155.6	5028.7	3981.0
15°	8780.5	8814.6	8904.6	8979.7	8967.4	8757.3	8167.9	7192.5	5859.6	5719.0	4408.0
17.5°	9125.6	9163.8	9294.8	9461.2	9614.0	9564.9	9112.0	8054.7	6571.7	6409.4	4865.0
20°	9428.5	9473.5	9614.0	9833.7	10118.8	10180.2	9882.8	8891.0	7282.5	7084.7	5337.0
22.5°	10084.7	10083.3	10169.3	10297.5	10569.0	10727.3	10539.0	9667.2	7985.1	7779.1	5818.6
25°	11271.6	11226.6	11196.6	11095.6	11155.7	11253.9	11148.8	10393.0	8691.8	8483.1	6307.0
27.5°	12682.3	12709.6	12466.7	12195.2	11985.1	11884.2	11712.3	11065.6	9371.2	9142.0	6784.5
30°	14170.7	14178.9	13892.4	13545.9	13083.4	12700.0	12402.6	11708.2	10069.7	9820.0	7248.4
32.5°	15513.2	15460.0	15176.2	14704.1	14120.2	13689.1	13071.1	12425.8	10809.1	10567.7	7764.1
35°	16577.3	16514.5	16169.4	15739.6	15133.9	14700.1	13956.5	13142.1	11586.8	11350.8	8281.1
37.5°	17354.9	17281.3	16926.5	16484.5	15962.0	15709.6	14983.8	13921.1	12435.4	12181.6	8825.5
40°	17625.1	17560.9	17338.6	17015.2	16595.0	16537.7	16073.9	14817.4	13359.0	13088.8	9442.1
42.5°	17464.1	17401.3	17322.2	17213.0	17038.4	17093.0	17102.5	15839.2	14384.9	14118.9	10122.9
45°	16825.6	16769.7	16851.5	17011.1	17228.1	17498.2	18041.2	16937.5	15530.9	15247.1	10910.1
47.5°	15885.6	15844.7	16071.1	16469.5	17103.9	17848.8	18899.3	18091.6	16817.4	16554.1	11892.4
50°	14548.6	14541.8	14994.7	15721.9	16697.4	18018.0	19786.1	19404.1	18604.6	18327.7	13258.0
52.5°	12466.7	12480.4	13371.3	14535.0	15983.8	17903.4	20356.3	21090.3	20683.8	20395.9	14440.8
55°	10484.4	10566.3	11198.0	12876.0	14889.7	17477.7	20552.8	21877.5	21831.1	21558.3	15098.4
57.5°	8543.1	8691.8	9300.3	10867.8	13292.1	16496.8	20445.0	22218.6	22685.1	22476.4	15966.1
60°	6439.4	6507.6	7208.8	8674.1	11241.6	14706.9	19663.3	22404.1	23853.0	23708.4	17225.3
62.5°	4096.9	4267.4	4889.6	6302.9	8753.2	12221.2	18345.4	22401.4	25314.1	25393.2	18850.2
65°	2158.3	2357.5	2687.6	3905.9	6015.1	9444.9	16363.1	22191.3	27106.8	27217.3	20120.3
67.5°	1163.7	1221.0	1395.7	2027.3	3488.4	6398.4	13450.4	21154.4	28145.0	28291.0	20297.7
70°	851.3	882.7	948.2	1121.4	1755.8	3716.3	9814.6	18803.8	26806.6	26752.0	18034.3
72.5°	653.5	702.6	751.7	821.3	1009.6	1983.7	6110.6	14724.6	21389.1	21028.9	13480.4
75°	515.7	523.9	593.5	656.2	757.2	1129.6	2713.5	8575.8	13054.7	12202.1	6990.5
77.5°	412.0	417.5	458.4	513.0	608.5	742.2	840.4	3373.8	4167.9	3719.0	1517.1
80°	244.2	257.8	341.1	395.6	504.8	467.9	307.0	732.6	650.8	589.4	255.1
82.5°	136.4	147.3	192.4	312.4	352.0	223.7	152.8	197.8	152.8	148.7	72.3
85°	0.0	6.8	124.1	193.7	143.2	49.1	64.1	65.5	45.0	42.3	28.6
87.5°	0.0	0.0	38.2	36.8	5.5	8.2	15.0	21.8	17.7	17.7	15.0
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°	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2	2641.2
2.5°	2693.1	2619.4	2480.3	2343.8	2229.2	2135.1	2050.5	2016.4	1989.1	1985.0	1963.2
5°	2813.1	2664.4	2398.4	2180.1	2034.1	1930.4	1841.8	1787.2	1744.9	1728.5	1713.5
7.5°	2994.6	2769.5	2387.5	2136.5	1961.8	1787.2	1623.5	1446.1	1335.6	1293.3	1268.8
10°	3215.6	2908.6	2428.4	2124.2	1818.6	1450.2	1178.7	953.6	862.2	832.2	824.0
12.5°	3473.4	3081.9	2499.4	2047.8	1513.0	1030.0	813.1	736.7	716.2	706.7	706.7
15°	3769.5	3271.5	2549.8	1826.8	1118.7	779.0	704.0	668.5	646.7	634.4	635.8
17.5°	4072.4	3457.1	2525.3	1506.2	825.4	693.1	637.1	598.9	568.9	556.6	553.9
20°	4378.0	3629.0	2388.8	1121.4	698.5	628.9	566.2	523.9	493.9	481.6	478.9
22.5°	4694.5	3774.9	2148.7	822.7	627.6	558.0	496.6	454.3	425.7	414.7	409.3
25°	5002.8	3893.6	1813.1	665.8	560.7	491.1	432.5	392.9	367.0	356.1	354.7
27.5°	5290.7	3968.7	1424.3	588.0	502.1	431.1	377.9	342.4	320.6	312.4	311.1
30°	5549.9	3975.5	1053.2	530.7	450.2	379.3	330.2	298.8	279.7	271.5	268.8
32.5°	5811.8	3918.2	766.7	478.9	402.5	334.2	286.5	261.9	248.3	241.5	241.5
35°	6058.7	3785.9	597.6	433.8	356.1	290.6	252.4	234.7	226.5	219.6	219.6
37.5°	6300.2	3596.2	507.5	394.3	312.4	253.8	222.4	211.5	204.6	197.8	197.8
40°	6545.8	3357.5	461.1	357.4	276.9	225.1	197.8	188.3	181.4	176.0	174.6
42.5°	6847.3	3081.9	431.1	323.3	245.6	199.2	174.6	163.7	158.3	152.8	150.1
45°	7196.5	2844.5	406.6	289.2	219.6	177.4	151.4	140.5	132.3	125.5	124.1
47.5°	7700.0	2672.6	373.8	252.4	195.1	154.2	131.0	118.7	106.4	99.6	98.2
50°	8342.5	2530.7	331.5	219.6	170.5	131.0	109.1	94.1	83.2	76.4	76.4
52.5°	8661.8	2345.2	293.3	191.0	143.2	110.5	88.7	70.9	65.5	58.7	58.7
55°	8790.0	2203.3	255.1	162.3	118.7	91.4	69.6	54.6	50.5	46.4	45.0
57.5°	9150.2	2162.4	222.4	137.8	98.2	72.3	53.2	40.9	38.2	32.7	32.7
60°	9730.0	2182.8	192.4	117.3	79.1	55.9	39.6	31.4	28.6	23.2	23.2
62.5°	10356.2	2156.9	162.3	101.0	61.4	40.9	27.3	23.2	23.2	13.6	12.3
65°	10476.3	1920.9	139.2	83.2	47.7	30.0	17.7	15.0	20.5	2.7	0.0
67.5°	9723.2	1489.8	120.1	64.1	35.5	23.2	13.6	6.8	17.7	0.0	0.0
70°	7775.0	946.8	96.9	46.4	27.3	19.1	10.9	2.7	13.6	0.0	0.0
72.5°	5498.0	549.8	76.4	32.7	23.2	15.0	8.2	0.0	8.2	0.0	0.0
75°	2780.4	293.3	47.7	24.6	17.7	10.9	5.5	0.0	1.4	0.0	0.0
77.5°	601.6	136.4	30.0	17.7	12.3	6.8	2.7	0.0	0.0	0.0	0.0
80°	131.0	60.0	19.1	10.9	6.8	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	47.7	31.4	9.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.9	16.4	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	5.5	1.4	1.4	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)