

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: P321353

Luminaire Tested: **GAN-SA9A-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321353
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-SA9A-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 33628 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

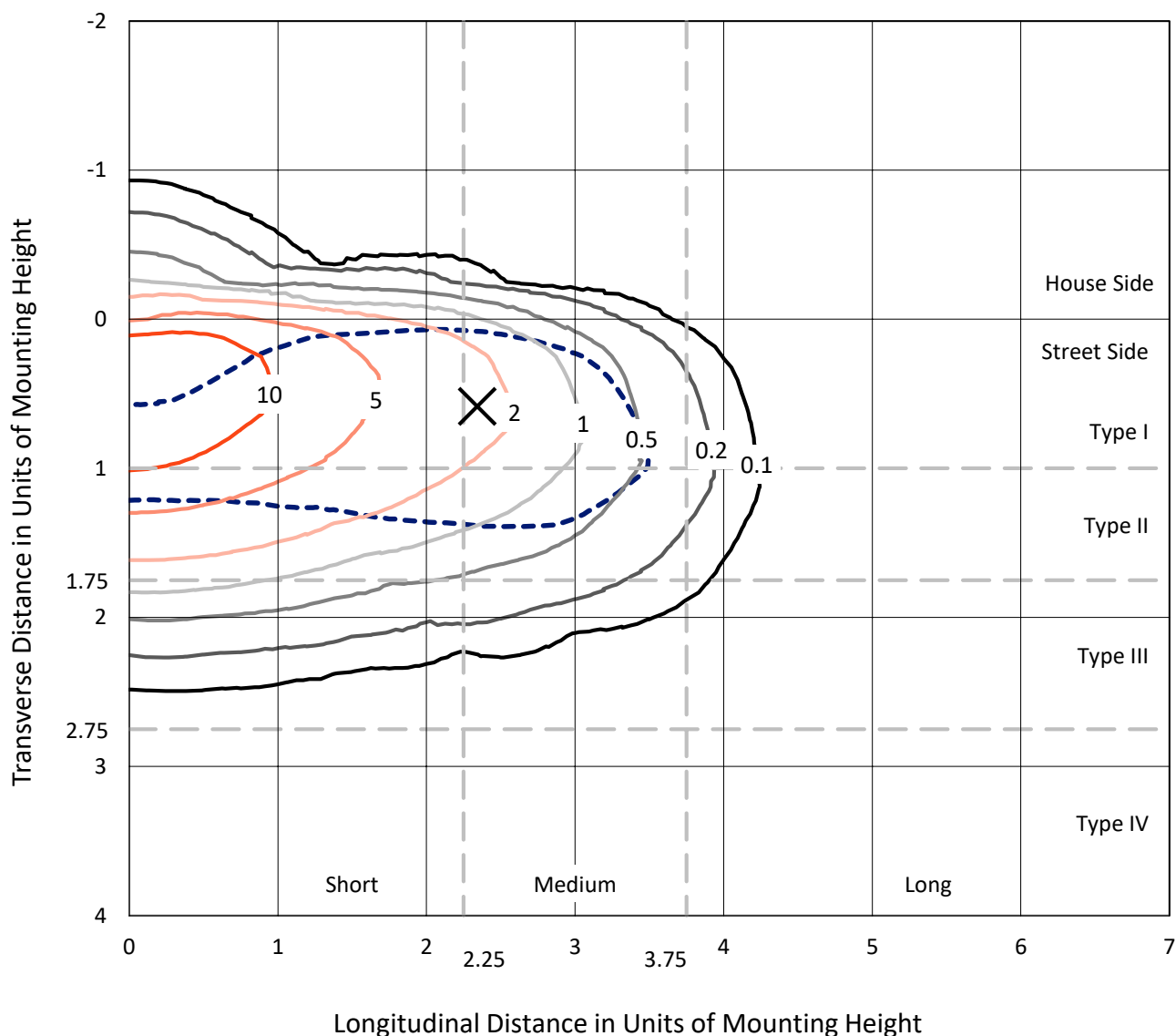
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

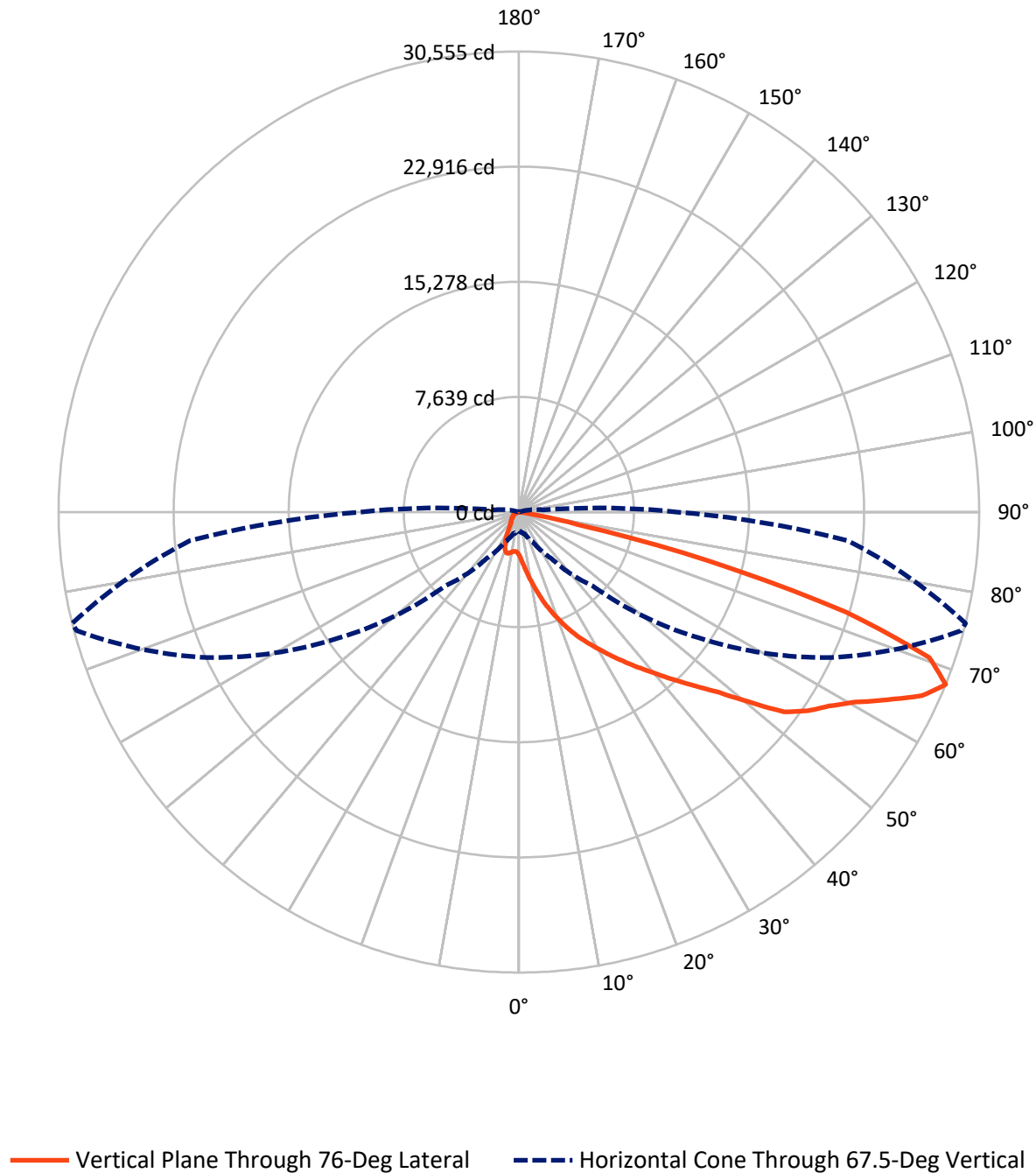
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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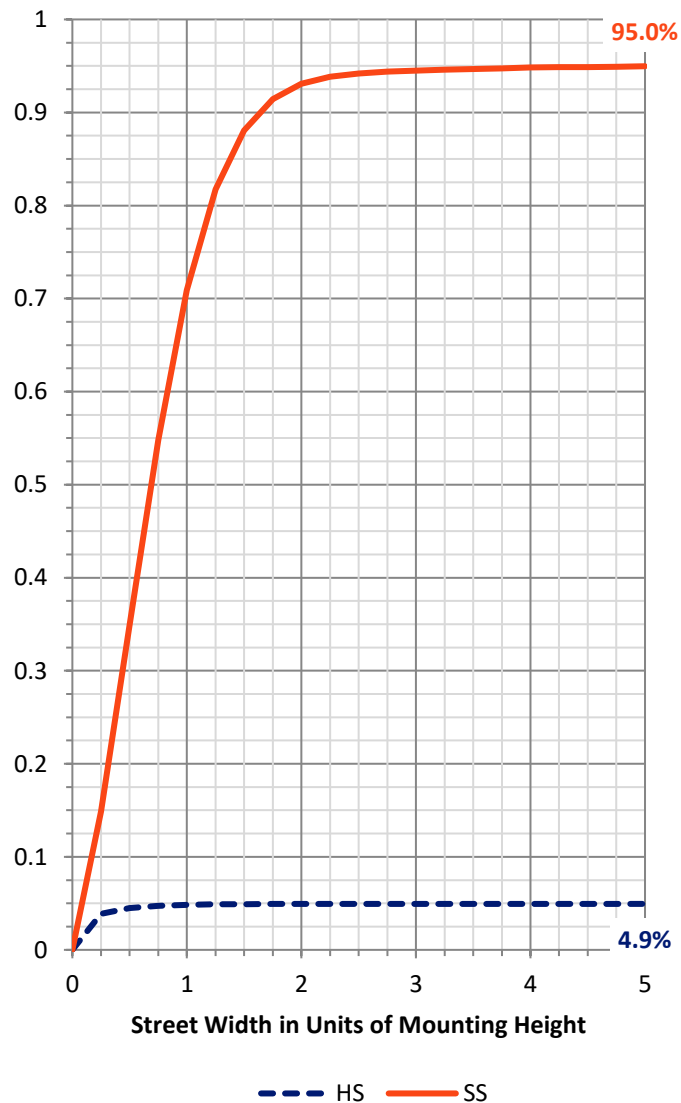
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1669.9	0.0	1669.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31958.1	0.0	31958.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	33628.0	0.0	33628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	1.1
10°-20°	1406.2	4.2
20°-30°	2861.1	8.5
30°-40°	4965.9	14.8
40°-50°	7016.2	20.9
50°-60°	7956.7	23.7
60°-70°	6599.3	19.6
70°-80°	2390.5	7.1
80°-90°	77.5	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°	33628.0	100.0
0°-180°	33628.0	100.0

Coefficient of Utilization



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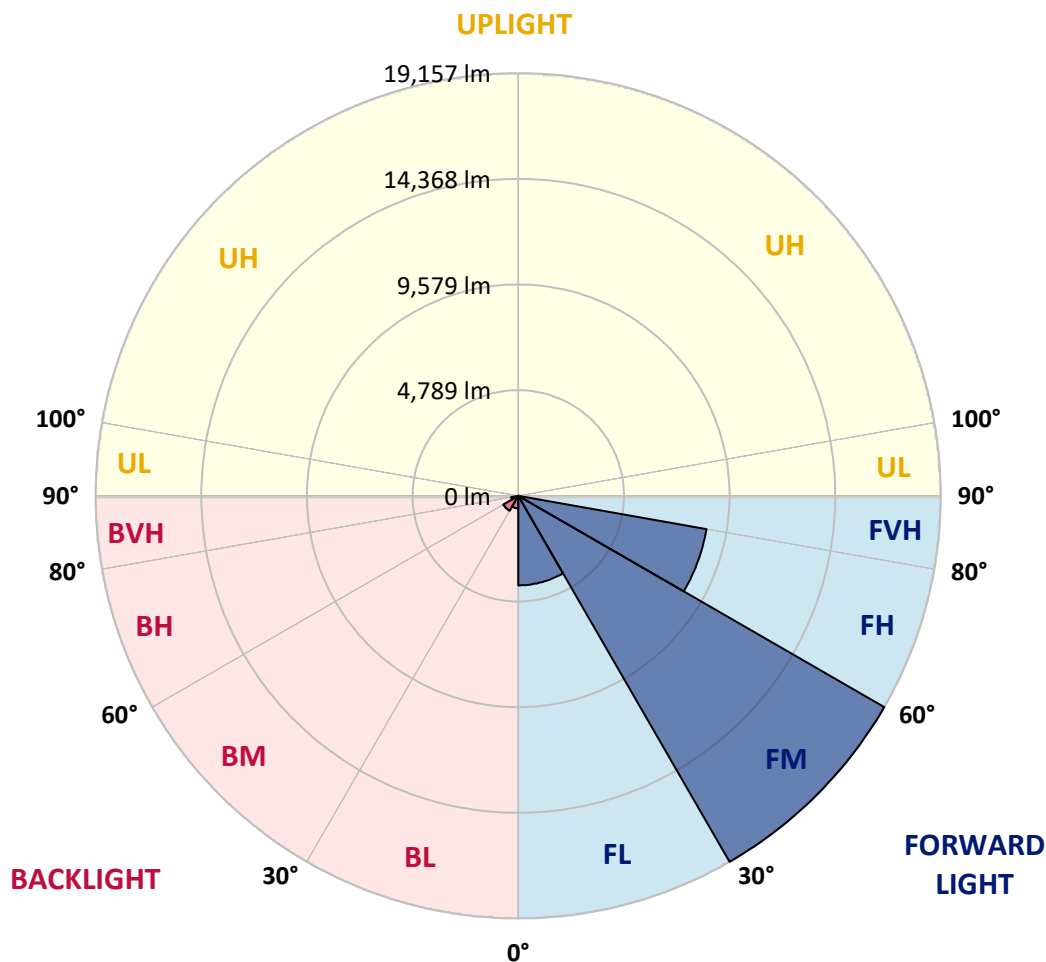
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4058.8	12.1			
FM	(30°-60°)	19157.2	57.0			
FH	(60°-80°)	8667.1	25.8			G4/12000
FVH	(80°-90°)	75.1	0.2			G1/100
BL	(0°-30°)	563.2	1.7	B2/1000		
BM	(30°-60°)	781.6	2.3	B1/1000		
BH	(60°-80°)	322.7	1.0	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6
2.5°	4258.3	4162.5	4184.6	4122.8	4010.8	3780.9	3584.9	3399.3	3182.7	3175.3	2997.0
5°	5742.1	5661.1	5650.7	5525.5	5322.2	4931.7	4551.5	4118.3	3635.0	3599.7	3221.0
7.5°	7088.8	7024.0	7000.4	6851.6	6472.9	6092.8	5597.7	4961.2	4205.3	4140.4	3523.1
10°	8123.2	8092.3	8098.2	7992.1	7667.9	7314.3	6664.5	5852.6	4852.1	4751.9	3885.5
12.5°	8907.1	8914.5	8967.5	8902.7	8721.4	8459.2	7765.2	6803.0	5568.2	5431.2	4299.6
15°	9483.2	9520.1	9617.3	9698.3	9685.1	9458.2	8821.6	7768.1	6328.5	6176.8	4760.8
17.5°	9856.0	9897.3	10038.7	10218.5	10383.5	10330.5	9841.3	8699.3	7097.7	6922.3	5254.4
20°	10183.1	10231.7	10383.5	10620.7	10928.7	10995.0	10673.8	9602.6	7865.4	7651.7	5764.2
22.5°	10891.9	10890.4	10983.2	11121.7	11414.9	11585.9	11382.5	10441.0	8624.2	8401.7	6284.3
25°	12173.8	12125.1	12092.7	11983.7	12048.5	12154.6	12041.2	11224.9	9387.4	9162.0	6811.8
27.5°	13697.3	13726.8	13464.5	13171.3	12944.4	12835.4	12649.7	11951.3	10121.2	9873.7	7327.5
30°	15304.9	15313.7	15004.3	14630.0	14130.5	13716.5	13395.3	12645.3	10875.6	10606.0	7828.5
32.5°	16754.8	16697.3	16390.8	15881.0	15250.4	14784.7	14117.3	13420.3	11674.3	11413.5	8385.5
35°	17904.1	17836.3	17463.5	16999.4	16345.1	15876.6	15073.5	14193.9	12514.1	12259.2	8943.9
37.5°	18743.9	18664.4	18281.3	17803.9	17239.5	16967.0	16183.1	15035.2	13430.6	13156.6	9531.8
40°	19035.7	18966.4	18726.3	18377.1	17923.2	17861.3	17360.4	16003.3	14428.2	14136.4	10197.9
42.5°	18861.8	18794.0	18708.6	18590.7	18402.1	18461.0	18471.4	17106.9	15536.2	15248.9	10933.1
45°	18172.2	18111.8	18200.2	18372.6	18606.9	18898.7	19485.1	18293.1	16773.9	16467.4	11783.3
47.5°	17157.0	17112.8	17357.4	17787.7	18472.8	19277.3	20411.9	19539.6	18163.4	17879.0	12844.2
50°	15713.0	15705.7	16194.9	16980.2	18033.7	19460.1	21369.7	20957.1	20093.6	19794.5	14319.1
52.5°	13464.5	13479.3	14441.4	15698.3	17263.1	19336.3	21985.6	22778.3	22339.2	22028.3	15596.6
55°	11323.6	11412.0	12094.2	13906.6	16081.4	18876.6	22197.8	23628.5	23578.4	23283.7	16306.8
57.5°	9226.8	9387.4	10044.6	11737.6	14356.0	17817.1	22081.3	23996.9	24500.8	24275.3	17244.0
60°	6954.8	7028.4	7785.8	9368.3	12141.4	15884.0	21237.1	24197.2	25762.1	25605.9	18604.0
62.5°	4424.8	4609.0	5280.9	6807.4	9453.8	13199.3	19813.7	24194.3	27340.1	27425.6	20358.9
65°	2331.0	2546.1	2902.7	4218.5	6496.5	10200.8	17672.7	23967.4	29276.3	29395.6	21730.7
67.5°	1256.9	1318.8	1507.4	2189.6	3767.7	6910.6	14526.9	22847.5	30397.6	30555.2	21922.2
70°	919.4	953.3	1024.1	1211.2	1896.3	4013.7	10600.1	20308.8	28952.1	28893.2	19477.7
72.5°	705.8	758.8	811.9	887.0	1090.4	2142.4	6599.6	15903.1	23101.0	22712.0	14559.3
75°	557.0	565.8	641.0	708.7	817.8	1220.0	2930.7	9262.2	14099.6	13178.7	7550.0
77.5°	445.0	450.9	495.1	554.0	657.2	801.6	907.7	3643.9	4501.4	4016.7	1638.5
80°	263.8	278.5	368.4	427.3	545.2	505.4	331.5	791.3	702.8	636.5	275.5
82.5°	147.3	159.1	207.8	337.4	380.2	241.6	165.0	213.7	165.0	160.6	78.1
85°	0.0	7.4	134.1	209.2	154.7	53.0	69.3	70.7	48.6	45.7	30.9
87.5°	0.0	0.0	41.3	39.8	5.9	8.8	16.2	23.6	19.2	19.2	16.2
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°	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6
2.5°	2908.6	2829.1	2678.8	2531.4	2407.6	2306.0	2214.6	2177.8	2148.3	2143.9	2120.3
5°	3038.3	2877.7	2590.4	2354.6	2196.9	2085.0	1989.2	1930.2	1884.6	1866.9	1850.7
7.5°	3234.3	2991.1	2578.6	2307.4	2118.8	1930.2	1753.4	1561.9	1442.5	1396.8	1370.3
10°	3473.0	3141.4	2622.8	2294.2	1964.1	1566.3	1273.1	1030.0	931.2	898.8	890.0
12.5°	3751.4	3328.6	2699.4	2211.7	1634.1	1112.5	878.2	795.7	773.6	763.3	763.3
15°	4071.2	3533.4	2753.9	1973.0	1208.2	841.3	760.3	722.0	698.4	685.2	686.6
17.5°	4398.3	3733.8	2727.4	1626.7	891.4	748.5	688.1	646.9	614.4	601.2	598.2
20°	4728.3	3919.4	2580.0	1211.2	754.4	679.3	611.5	565.8	533.4	520.1	517.2
22.5°	5070.2	4077.1	2320.7	888.5	677.8	602.6	536.3	490.7	459.7	447.9	442.0
25°	5403.2	4205.3	1958.2	719.1	605.6	530.4	467.1	424.4	396.4	384.6	383.1
27.5°	5714.1	4286.3	1538.3	635.1	542.2	465.6	408.1	369.8	346.3	337.4	336.0
30°	5994.1	4293.7	1137.5	573.2	486.2	409.6	356.6	322.7	302.1	293.2	290.3
32.5°	6277.0	4231.8	828.1	517.2	434.7	361.0	309.4	282.9	268.2	260.8	260.8
35°	6543.7	4088.9	645.4	468.6	384.6	313.8	272.6	253.4	244.6	237.2	237.2
37.5°	6804.5	3884.1	548.1	425.8	337.4	274.1	240.2	228.4	221.0	213.7	213.7
40°	7069.7	3626.2	498.0	386.0	299.1	243.1	213.7	203.3	196.0	190.1	188.6
42.5°	7395.3	3328.6	465.6	349.2	265.2	215.1	188.6	176.8	170.9	165.0	162.1
45°	7772.5	3072.2	439.1	312.4	237.2	191.6	163.6	151.8	142.9	135.6	134.1
47.5°	8316.2	2886.5	403.7	272.6	210.7	166.5	141.5	128.2	114.9	107.6	106.1
50°	9010.2	2733.3	358.1	237.2	184.2	141.5	117.9	101.7	89.9	82.5	82.5
52.5°	9355.0	2532.9	316.8	206.3	154.7	119.4	95.8	76.6	70.7	63.4	63.4
55°	9493.5	2379.6	275.5	175.3	128.2	98.7	75.1	58.9	54.5	50.1	48.6
57.5°	9882.5	2335.4	240.2	148.8	106.1	78.1	57.5	44.2	41.3	35.4	35.4
60°	10508.8	2357.5	207.8	126.7	85.5	60.4	42.7	33.9	30.9	25.0	25.0
62.5°	11185.1	2329.5	175.3	109.0	66.3	44.2	29.5	25.0	25.0	14.7	13.3
65°	11314.7	2074.6	150.3	89.9	51.6	32.4	19.2	16.2	22.1	2.9	0.0
67.5°	10501.4	1609.0	129.7	69.3	38.3	25.0	14.7	7.4	19.2	0.0	0.0
70°	8397.3	1022.6	104.6	50.1	29.5	20.6	11.8	2.9	14.7	0.0	0.0
72.5°	5938.1	593.8	82.5	35.4	25.0	16.2	8.8	0.0	8.8	0.0	0.0
75°	3002.9	316.8	51.6	26.5	19.2	11.8	5.9	0.0	1.5	0.0	0.0
77.5°	649.8	147.3	32.4	19.2	13.3	7.4	2.9	0.0	0.0	0.0	0.0
80°	141.5	64.8	20.6	11.8	7.4	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.6	33.9	10.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	17.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	1.5	1.5	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)