

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: P322654

Luminaire Tested: **GAN-SA0C-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322654
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-SA0C-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA 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: 49717 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

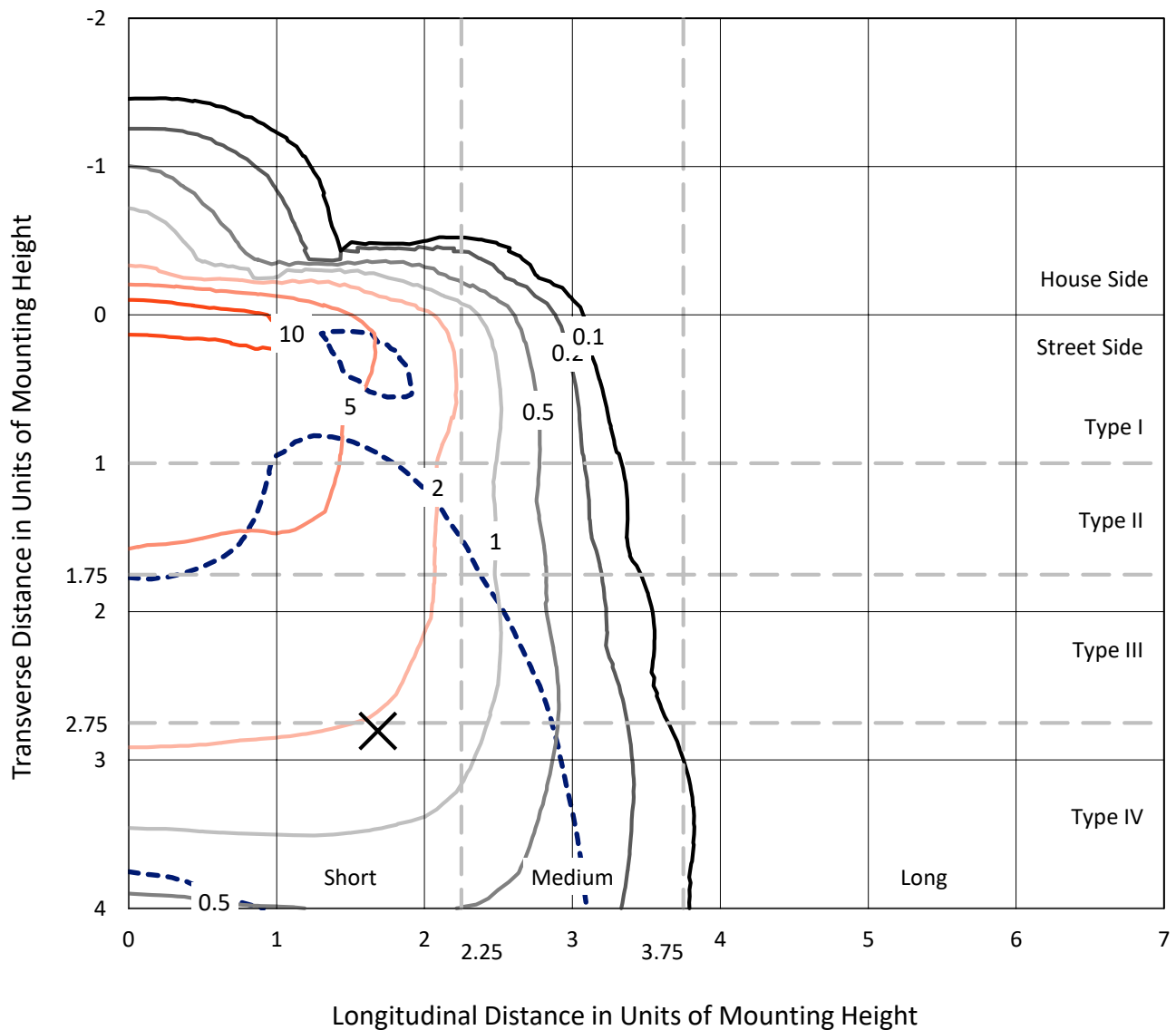
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

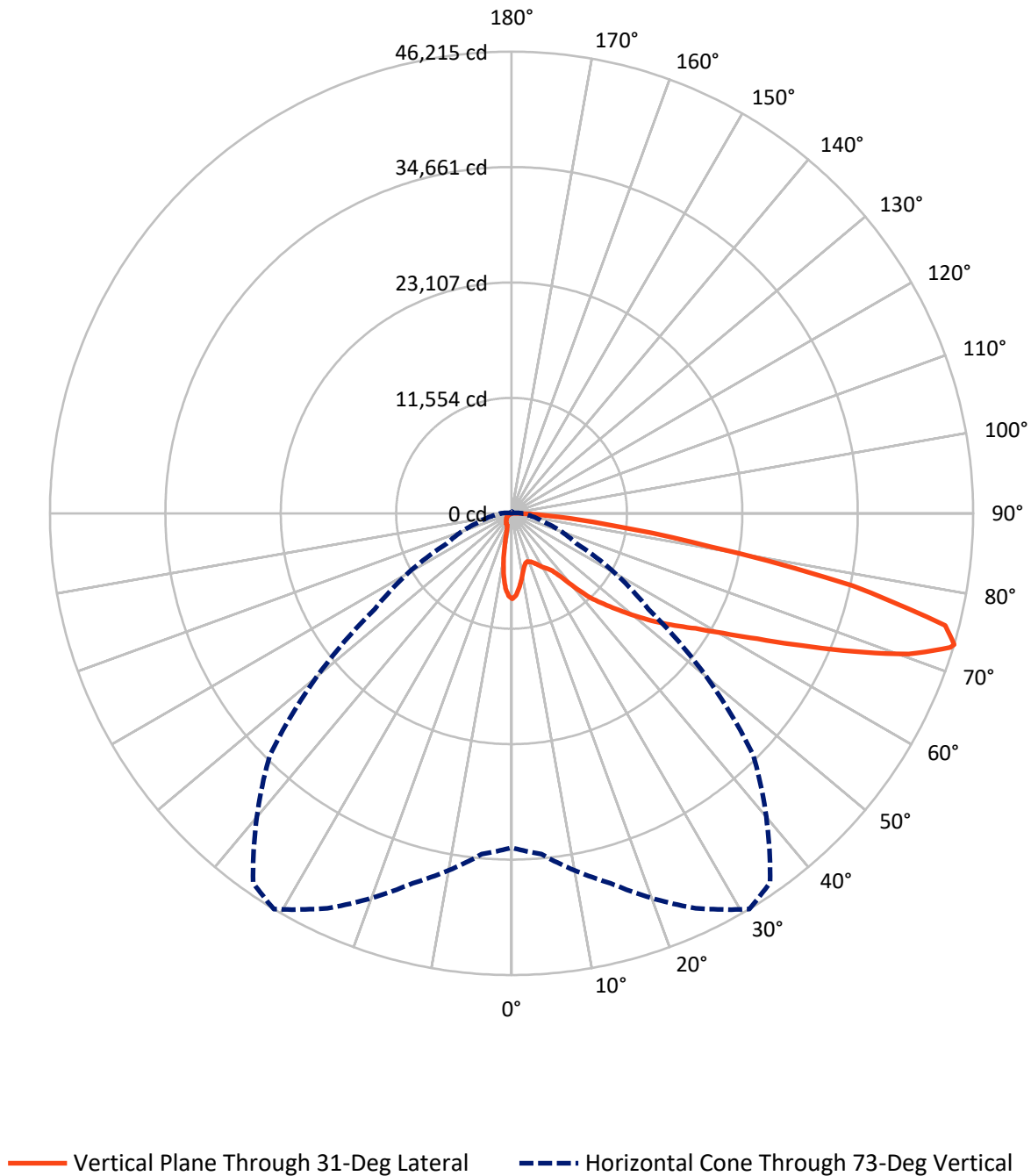
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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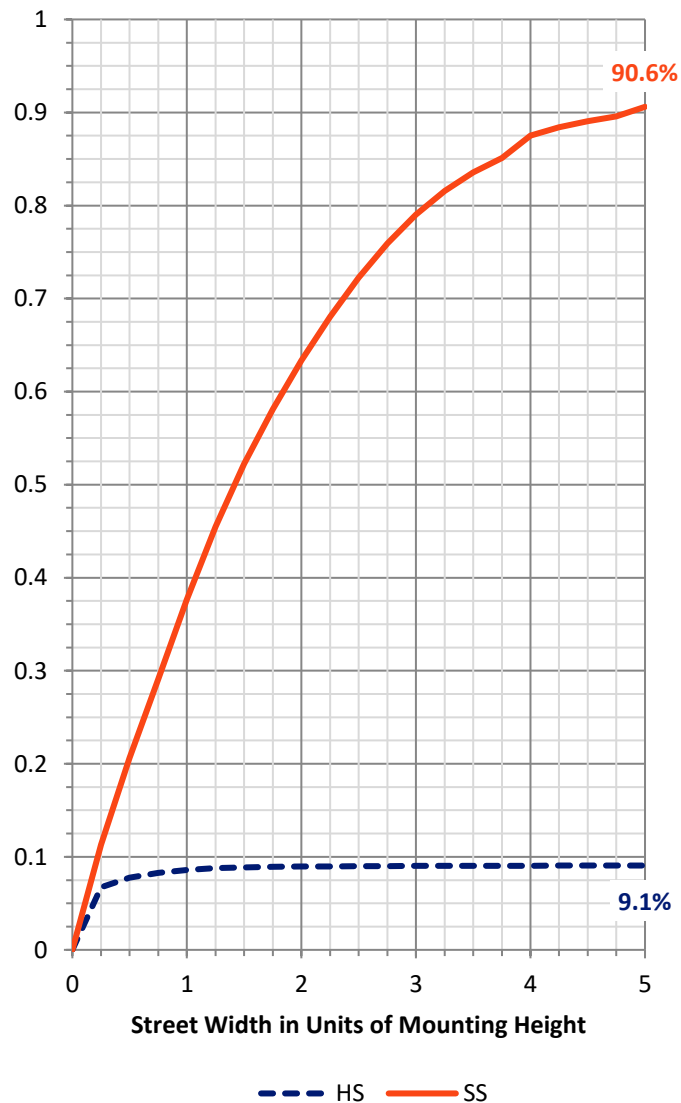
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4531.9	0.0	4531.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	45185.1	0.0	45185.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	49717.0	0.0	49717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.2	1.4
10°-20°	1540.0	3.1
20°-30°	2307.3	4.6
30°-40°	3670.9	7.4
40°-50°	6555.3	13.2
50°-60°	10171.9	20.5
60°-70°	13522.2	27.2
70°-80°	10171.4	20.5
80°-90°	1068.8	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°	49717.0	100.0
0°-180°	49717.0	100.0

Coefficient of Utilization



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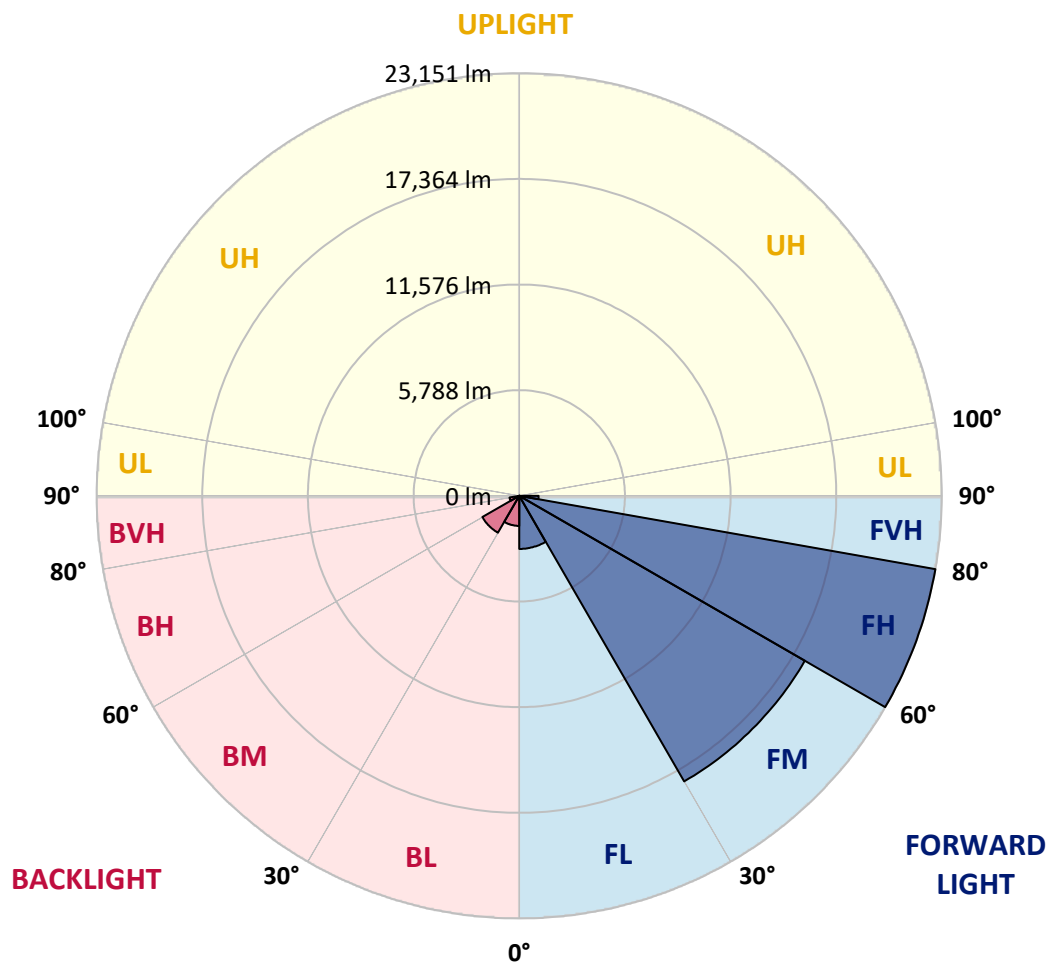
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2908.5	5.9			
FM	(30°-60°)	18065.4	36.3			
FH	(60°-80°)	23151.4	46.6			G5
FVH	(80°-90°)	1059.8	2.1			G5
BL	(0°-30°)	1648.0	3.3	B3/2500		
BM	(30°-60°)	2332.7	4.7	B2/2500		
BH	(60°-80°)	542.2	1.1	B2/1000		G2/1000
BVH	(80°-90°)	9.0	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°	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9
2.5°	8106.3	8140.3	8176.8	8184.1	8244.9	8247.4	8335.0	8400.6	8466.3	8529.6	8551.5
5°	7274.2	7330.2	7395.9	7461.6	7590.5	7641.6	7855.7	8074.6	8283.9	8483.4	8580.7
7.5°	6386.2	6449.5	6541.9	6704.9	6848.5	6948.2	7286.4	7675.7	8064.9	8432.3	8643.9
10°	5576.1	5634.5	5731.8	5904.5	6125.9	6262.2	6717.1	7257.2	7828.9	8386.0	8738.8
12.5°	5060.3	5092.0	5145.5	5330.4	5529.9	5683.1	6218.4	6887.4	7634.3	8383.6	8892.1
15°	4965.5	4975.2	4931.4	5014.1	5169.8	5318.2	5860.7	6588.2	7485.9	8422.5	9091.6
17.5°	5116.3	5111.4	4965.5	4955.7	5079.8	5201.4	5685.6	6381.4	7381.3	8512.6	9349.5
20°	5345.0	5327.9	5074.9	5028.7	5160.1	5274.4	5673.4	6303.5	7342.4	8663.4	9663.3
22.5°	5649.1	5619.9	5223.3	5174.7	5315.8	5435.0	5824.3	6378.9	7376.4	8865.3	10028.2
25°	6026.2	5982.4	5478.8	5425.3	5568.8	5688.0	6094.3	6595.5	7478.6	9111.0	10490.5
27.5°	6451.9	6388.7	5887.5	5748.8	5911.8	6035.9	6454.4	6926.3	7639.2	9371.4	11057.3
30°	6853.3	6770.6	6318.1	6089.4	6288.9	6427.6	6843.6	7320.5	7897.0	9772.8	11833.4
32.5°	7257.2	7164.8	6702.5	6430.0	6610.1	6760.9	7245.0	7863.0	8381.2	10385.9	12864.9
35°	8186.6	8089.2	7522.4	7072.3	7069.9	7155.0	7807.0	8605.0	9021.0	11239.8	14096.0
37.5°	9750.9	9694.9	9154.8	8300.9	8072.2	7977.3	8573.4	9490.6	9940.6	12414.8	15485.1
40°	11463.6	11414.9	10809.2	10035.5	9687.6	9454.1	9673.0	10724.0	11239.8	13850.2	16903.5
42.5°	13397.7	13166.6	12086.4	11855.3	11543.9	11366.3	11169.2	12244.5	12835.7	15412.1	18309.7
45°	15154.2	14765.0	13363.7	13013.3	12942.8	12986.6	13096.0	14288.1	14631.2	17268.4	19711.0
47.5°	16200.4	15893.8	14818.5	14482.8	14463.3	14752.8	15580.0	16596.9	16419.3	18886.2	20944.4
50°	17195.4	16918.1	16025.2	16107.9	16197.9	16592.1	18399.7	18971.4	18051.8	20353.2	22075.7
52.5°	18000.7	17577.4	17110.3	17574.9	18017.7	18652.7	21309.4	21102.6	19209.8	21521.0	23044.0
55°	18465.4	18273.2	18499.4	18966.5	19798.6	20830.1	24056.1	22876.1	20056.4	22586.6	23688.7
57.5°	20168.4	19791.3	20241.3	20645.2	21730.2	23172.9	26408.6	24197.2	20667.1	23245.9	23837.1
60°	22229.0	21924.9	22190.1	22861.5	24326.1	26021.8	28607.9	25274.9	20985.8	23669.2	23452.7
62.5°	25508.5	25107.0	24941.6	25693.4	27634.8	29486.2	30276.9	26021.8	20915.2	23481.9	22134.1
65°	29902.2	29486.2	28746.6	29427.8	31897.1	33203.6	32142.9	26179.9	20428.7	21966.2	18801.1
67.5°	34403.0	34101.3	33468.8	34617.1	36845.6	37266.4	34115.9	25795.5	18861.9	17810.9	13283.4
70°	37375.9	37247.0	37658.1	40198.0	42185.7	42064.0	35925.9	23730.0	14701.7	10952.7	6571.1
72.5°	35232.6	35850.5	38886.7	43492.1	45920.1	44927.5	34996.6	18222.1	8403.1	4213.7	1900.1
73°	33456.6	34247.3	38334.5	43616.2	46214.5	45127.0	34215.6	16725.9	7162.3	3325.7	1440.2
75°	23275.1	24245.8	31736.6	40621.3	44837.5	42995.8	28520.3	10237.4	3318.4	1474.3	581.5
77.5°	11300.6	12018.3	17475.2	29349.9	34870.1	33592.8	17755.0	3814.7	1498.6	922.1	267.6
80°	4218.6	4690.5	7585.6	14937.7	20151.3	20679.3	7809.5	1442.7	997.5	742.0	136.2
82.5°	1104.5	1231.0	2797.8	6661.2	10327.5	10809.2	2462.0	727.4	729.9	610.6	82.7
85°	352.8	403.9	873.4	2990.0	4865.7	4272.1	642.3	352.8	530.4	454.9	46.2
87.5°	43.8	56.0	277.3	703.1	1072.9	596.0	99.7	104.6	226.3	253.0	26.8
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°	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9	8553.9
2.5°	8573.4	8561.2	8563.6	8500.4	8459.0	8376.3	8291.2	8252.2	8210.9	8193.8	8210.9
5°	8617.2	8595.3	8532.0	8337.4	8130.6	7863.0	7612.4	7422.6	7184.2	7118.5	7186.6
7.5°	8685.3	8641.5	8456.6	8060.0	7600.2	7089.3	6515.2	6096.7	5753.7	5532.3	5612.6
10°	8785.0	8702.3	8330.1	7656.2	6833.9	5928.9	5113.9	4478.9	4028.8	3843.9	3836.6
12.5°	8952.9	8797.2	8174.4	7130.7	5897.2	4690.5	3622.5	2934.0	2569.1	2333.1	2328.2
15°	9137.8	8909.1	7977.3	6500.6	4807.3	3359.8	2333.1	1810.0	1574.1	1498.6	1488.9
17.5°	9364.1	9038.0	7721.9	5724.5	3666.3	2226.1	1523.0	1372.1	1362.4	1355.1	1355.1
20°	9648.7	9191.3	7393.4	4836.5	2600.7	1486.5	1294.3	1304.0	1308.9	1299.1	1301.6
22.5°	9979.6	9347.0	7001.8	3882.8	1759.0	1243.2	1238.3	1250.5	1255.4	1250.5	1252.9
25°	10364.0	9527.1	6524.9	2882.9	1269.9	1179.9	1192.1	1209.1	1221.3	1221.3	1221.3
27.5°	10840.8	9746.0	5950.8	2012.0	1097.2	1114.2	1148.3	1179.9	1197.0	1201.8	1201.8
30°	11461.2	10018.5	5262.3	1379.4	997.5	1026.7	1089.9	1150.7	1182.4	1187.2	1189.7
32.5°	12244.5	10325.0	4464.3	1019.4	912.3	934.2	1002.3	1104.5	1165.3	1175.1	1175.1
35°	13142.3	10680.2	3605.5	888.0	851.5	858.8	912.3	1029.1	1136.1	1162.9	1165.3
37.5°	14125.1	11030.6	2741.8	829.6	800.4	800.4	839.3	939.1	1065.6	1148.3	1158.0
40°	15042.3	11242.2	1922.0	783.4	754.2	754.2	788.2	861.2	980.4	1104.5	1131.3
42.5°	15889.0	11315.2	1338.1	739.6	710.4	717.7	746.9	805.3	895.3	1019.4	1043.7
45°	16759.9	11303.0	975.6	688.5	666.6	688.5	710.4	754.2	819.9	890.4	895.3
47.5°	17416.8	11200.9	773.6	639.8	625.2	654.4	673.9	703.1	739.6	734.7	734.7
50°	18032.3	10952.7	622.8	574.2	583.9	617.9	627.7	637.4	639.8	593.6	588.8
52.5°	18499.4	10565.9	498.7	503.6	542.5	576.6	566.9	552.3	527.9	472.0	462.2
55°	18655.1	9821.4	391.7	416.0	481.7	525.5	489.0	457.4	411.2	364.9	355.2
57.5°	18372.9	8860.5	318.7	323.6	406.3	442.8	401.4	364.9	313.8	274.9	267.6
60°	17774.4	7792.4	262.7	243.3	313.8	345.5	318.7	282.2	236.0	206.8	204.4
62.5°	16587.2	6653.9	216.5	189.8	238.4	265.2	248.2	221.4	182.5	163.0	160.6
65°	14091.1	5323.1	175.2	153.3	184.9	206.8	192.2	172.7	143.5	128.9	126.5
67.5°	9836.0	3598.2	143.5	126.5	146.0	163.0	150.8	141.1	114.3	111.9	114.3
70°	4744.1	1734.6	119.2	102.2	114.3	126.5	121.6	114.3	109.5	126.5	146.0
72.5°	1360.0	581.5	94.9	85.1	92.4	99.7	104.6	102.2	119.2	153.3	177.6
73°	1046.1	469.5	90.0	80.3	87.6	97.3	102.2	99.7	121.6	155.7	177.6
75°	447.6	226.3	68.1	65.7	73.0	85.1	90.0	90.0	121.6	158.1	170.3
77.5°	201.9	121.6	43.8	51.1	63.3	68.1	75.4	75.4	97.3	121.6	121.6
80°	114.3	65.7	34.1	38.9	46.2	46.2	46.2	41.4	43.8	48.7	53.5
82.5°	73.0	43.8	26.8	31.6	29.2	24.3	19.5	19.5	17.0	19.5	24.3
85°	41.4	24.3	24.3	19.5	12.2	9.7	12.2	9.7	2.4	0.0	2.4
87.5°	24.3	14.6	7.3	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)