

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: P842059

Luminaire Tested: **ARCH4-260-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39778 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 259.2
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

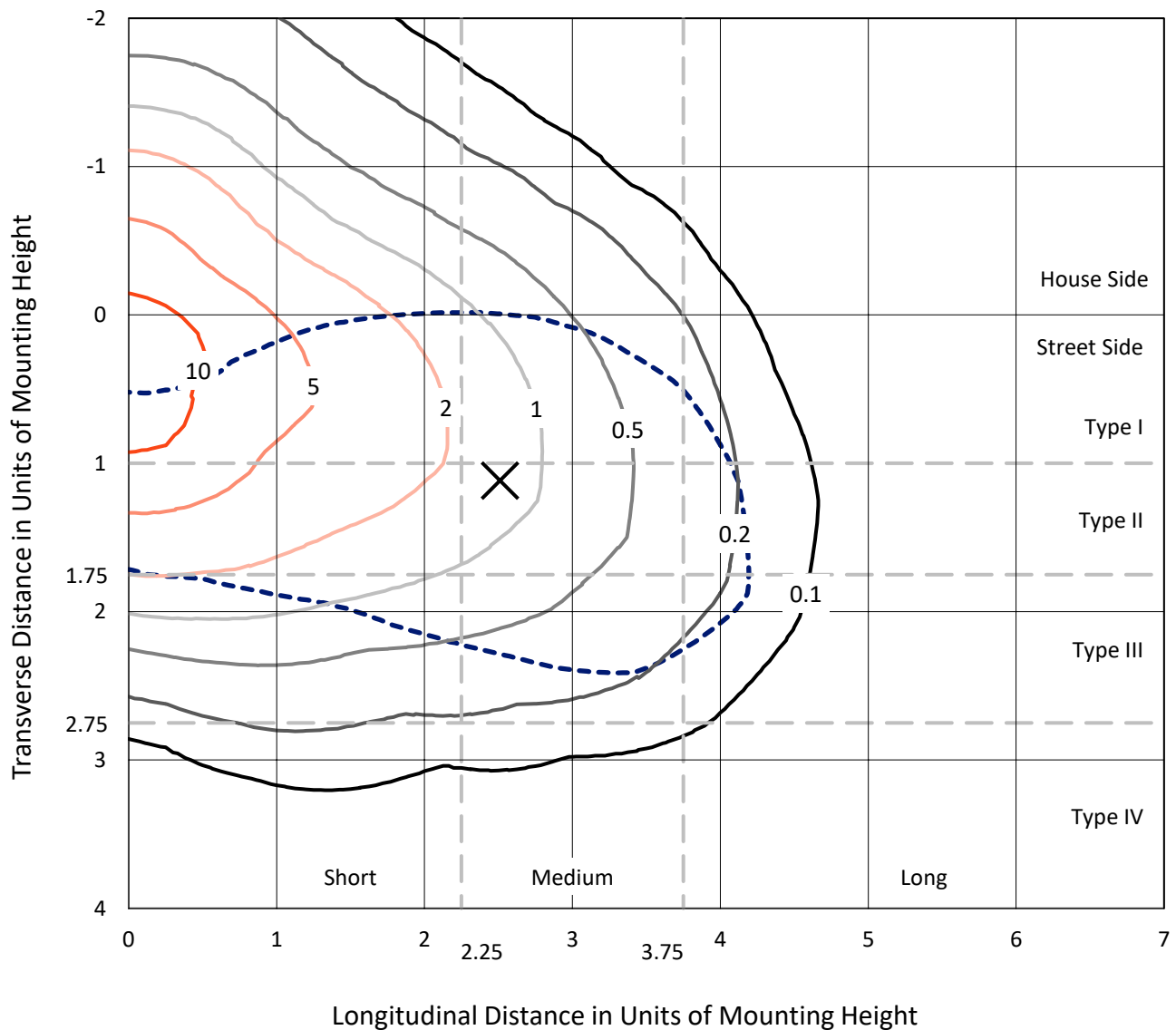


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Iso-Footcandle Lines of Horizontal Illumination

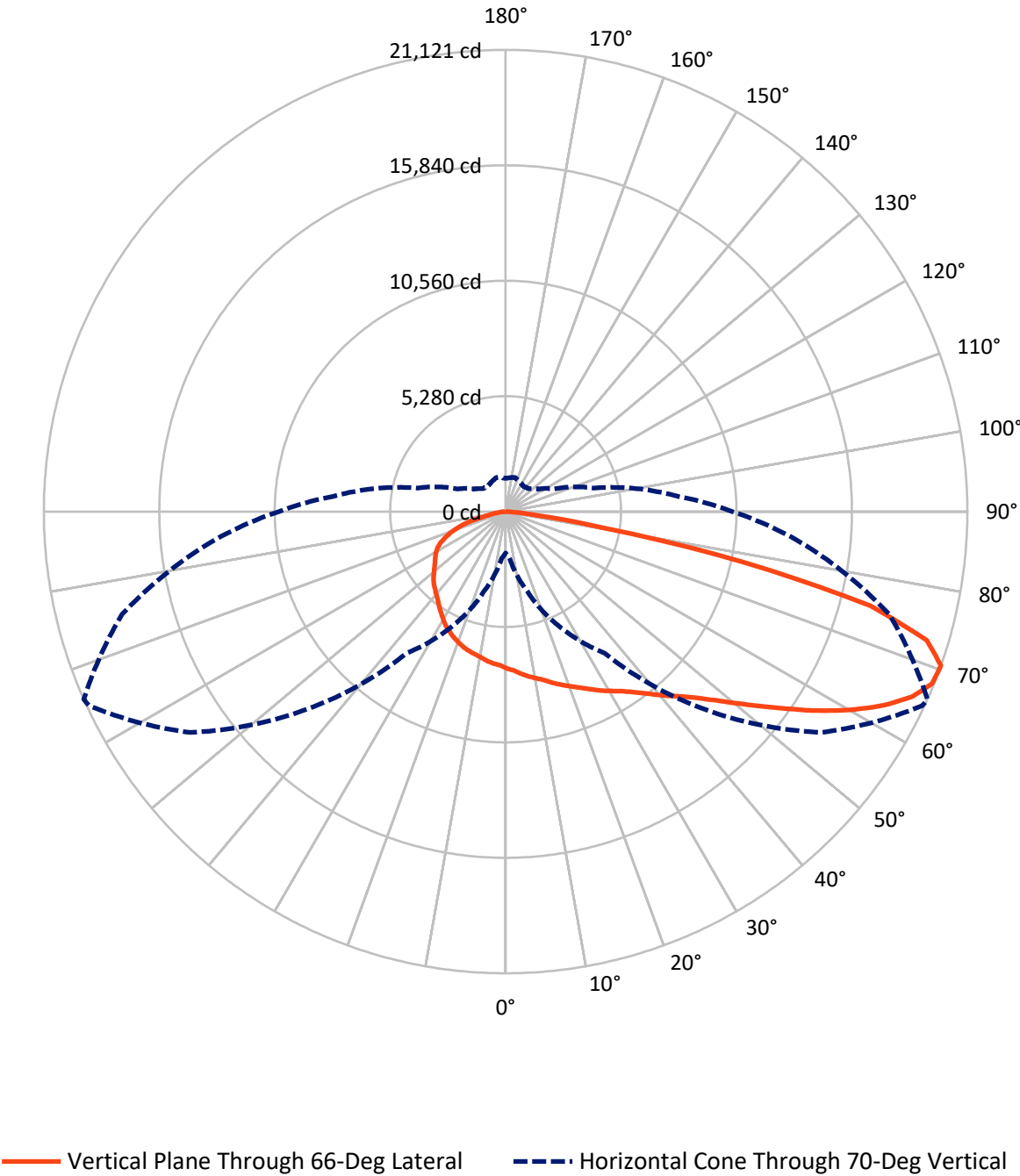
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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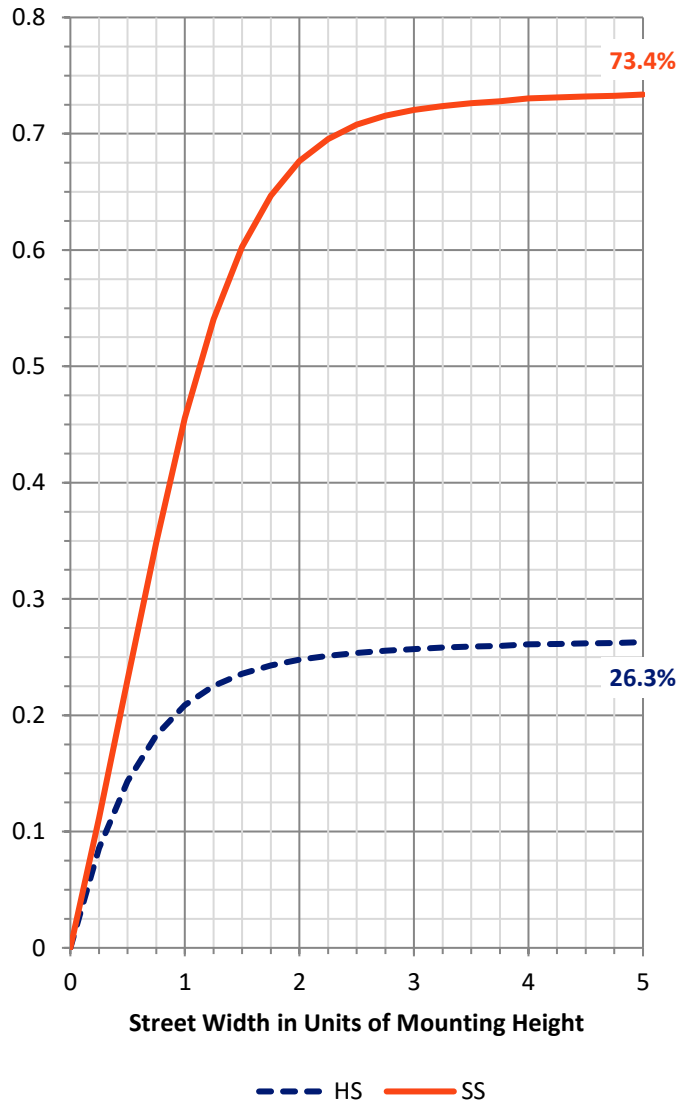
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10540.3	0.0	10540.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	29237.7	0.0	29237.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	39778.0	0.0	39778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.8	1.7
10°-20°	2069.2	5.2
20°-30°	3468.7	8.7
30°-40°	5193.8	13.1
40°-50°	6944.1	17.5
50°-60°	8107.5	20.4
60°-70°	8061.7	20.3
70°-80°	4772.6	12.0
80°-90°	470.4	1.2
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°	39778.0	100.0
0°-180°	39778.0	100.0

Coefficient of Utilization



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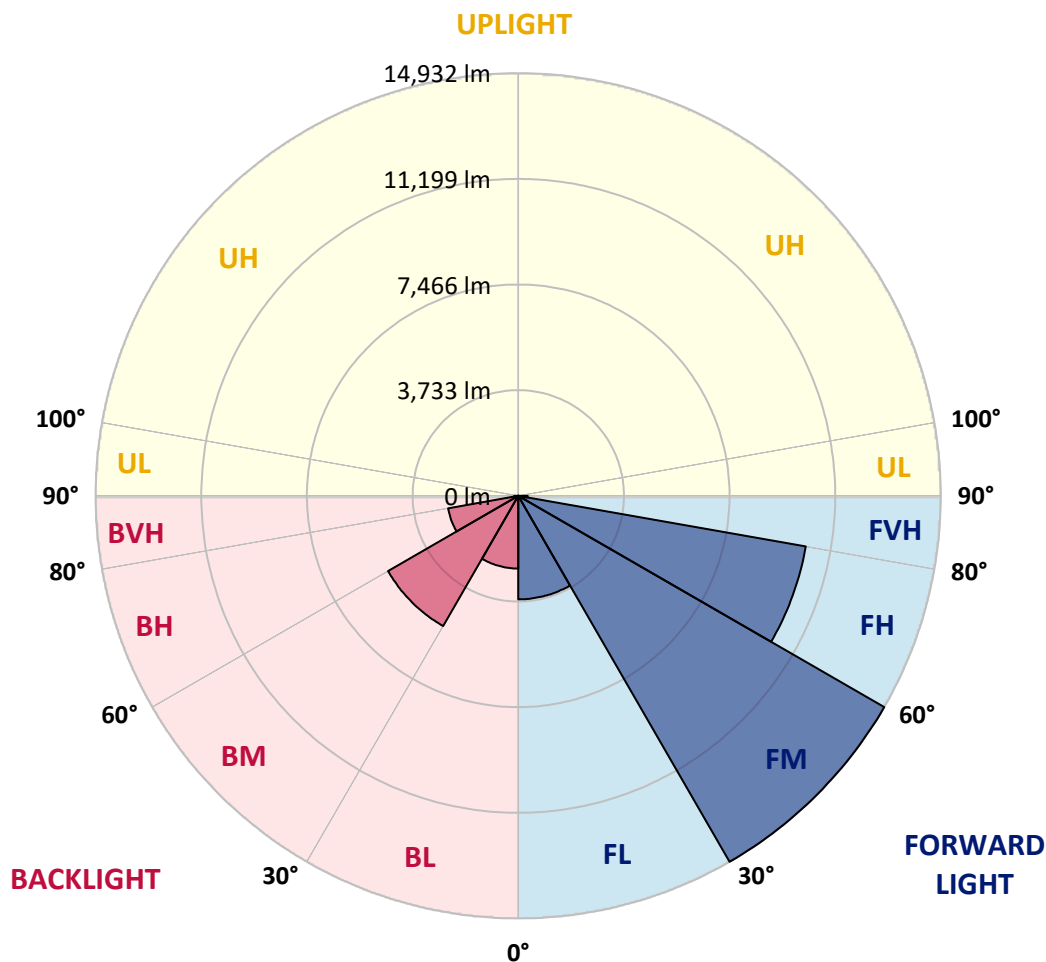
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3658.5	9.2			
FM	(30°-60°)	14932.1	37.5			
FH	(60°-80°)	10316.5	25.9			G4/12000
FVH	(80°-90°)	330.6	0.8			G3/500
BL	(0°-30°)	2569.3	6.5	B4/5000		
BM	(30°-60°)	5313.4	13.4	B4/8500		
BH	(60°-80°)	2517.8	6.3	B4/5000		G4/5000
BVH	(80°-90°)	139.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0
2.5°	7443.0	7431.2	7425.4	7401.9	7349.1	7372.6	7319.8	7284.6	7278.7	7196.6	7149.7
5°	7747.9	7742.1	7730.4	7695.2	7613.0	7624.8	7536.8	7472.3	7454.7	7325.7	7225.9
7.5°	8006.0	7994.3	7988.4	7941.5	7853.5	7847.7	7742.1	7648.2	7618.9	7443.0	7290.5
10°	8205.4	8187.8	8199.6	8152.6	8058.8	8041.2	7906.3	7783.1	7753.8	7530.9	7319.8
12.5°	8375.5	8363.8	8381.4	8340.3	8264.1	8246.5	8111.6	7953.2	7918.0	7660.0	7384.3
15°	8563.2	8522.2	8557.3	8539.8	8487.0	8481.1	8357.9	8182.0	8135.1	7824.2	7484.0
17.5°	8662.9	8639.5	8680.5	8686.4	8662.9	8704.0	8586.7	8375.5	8334.5	7976.7	7572.0
20°	8733.3	8698.1	8745.0	8780.2	8797.8	8879.9	8786.1	8580.8	8533.9	8123.3	7654.1
22.5°	8973.8	8897.5	8903.4	8926.9	8938.6	9055.9	8997.2	8797.8	8750.9	8305.1	7753.8
25°	9577.9	9425.4	9325.7	9255.3	9173.2	9272.9	9237.7	9044.2	9003.1	8522.2	7877.0
27.5°	10516.3	10322.8	10123.4	9918.1	9595.5	9554.4	9495.8	9319.8	9272.9	8739.2	8000.2
30°	11583.8	11390.2	11155.6	10827.2	10223.1	9906.3	9771.4	9577.9	9525.1	8932.7	8117.5
32.5°	12645.4	12475.3	12240.7	11841.9	10979.7	10334.5	10047.1	9847.7	9794.9	9143.9	8258.2
35°	13472.4	13366.8	13214.3	12715.8	11730.4	10838.9	10445.9	10205.5	10146.8	9478.2	8516.3
37.5°	14141.0	14064.8	13935.8	13413.7	12275.9	11343.3	10903.4	10627.8	10563.3	9841.8	8792.0
40°	15126.4	14927.0	14821.4	14064.8	12751.0	11800.8	11419.6	11132.2	11061.8	10228.9	9014.8
42.5°	15965.1	15818.5	15689.5	14645.4	13202.6	12193.8	11906.4	11642.5	11548.6	10610.2	9255.3
45°	16105.9	16164.5	16100.0	14932.8	13918.2	12580.9	12399.1	12229.0	12141.0	11126.3	9619.0
47.5°	16111.7	16111.7	15730.5	15097.1	14803.8	13014.9	12926.9	12985.6	12891.7	11783.2	10053.0
50°	15689.5	15765.7	15566.3	15138.1	15038.4	13448.9	13572.1	13888.8	13795.0	12481.2	10522.2
52.5°	14815.5	15067.7	15061.9	15073.6	14698.2	13818.4	14252.5	14973.9	14815.5	13267.1	11020.7
55°	13273.0	13777.4	14229.0	14616.1	14405.0	14041.3	15085.3	16129.3	15965.1	14146.9	11525.1
57.5°	11953.3	12275.9	12839.0	13935.8	14058.9	14234.9	15865.4	17337.6	17190.9	15120.5	12053.0
60°	10445.9	10891.7	11454.8	13014.9	13636.6	14487.1	16721.7	18516.5	18375.7	16105.9	12563.3
62.5°	8129.2	8704.0	9830.1	11601.4	13020.8	14645.4	17396.2	19554.6	19490.1	17038.4	13020.8
65°	5665.8	6176.1	7753.8	9865.3	12041.3	14575.1	17935.8	20481.3	20422.7	17800.9	13343.4
67.5°	3308.0	3900.4	5683.4	7941.5	10311.0	14088.2	18111.8	21026.8	21026.8	18264.3	13431.3
70°	1888.6	2164.3	3747.9	5789.0	7906.3	12745.1	17619.1	21020.9	21120.6	18158.7	13067.7
72.5°	1319.7	1442.8	2522.0	3894.5	5360.8	10311.0	16328.8	20006.2	20141.1	17161.6	11824.3
75°	1026.4	1114.4	1777.2	2656.9	3378.4	7003.1	13507.6	16868.4	17226.1	14627.8	9560.3
77.5°	780.1	844.6	1038.1	1659.9	2164.3	4023.5	8915.1	11061.8	11085.3	8956.2	5126.2
80°	568.9	633.4	692.1	1014.7	1149.6	1882.7	3366.6	4621.8	4492.8	4334.4	2774.2
82.5°	340.2	404.7	422.3	551.3	563.1	803.5	1178.9	1489.8	1431.1	1906.2	1302.1
85°	146.6	205.3	217.0	252.2	240.5	328.5	469.2	393.0	351.9	404.7	281.5
87.5°	35.2	58.7	58.7	64.5	52.8	82.1	88.0	64.5	58.7	70.4	70.4
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°	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0	7179.0
2.5°	7138.0	7120.4	7126.2	7026.5	6997.2	6967.9	6950.3	6938.5	6926.8	6944.4	6962.0
5°	7190.8	7149.7	7102.8	6956.1	6897.5	6833.0	6786.1	6745.0	6727.4	6727.4	6745.0
7.5°	7231.8	7161.4	7061.7	6868.2	6762.6	6674.6	6598.4	6545.6	6516.3	6516.3	6533.8
10°	7237.7	7138.0	6979.6	6745.0	6604.2	6475.2	6387.2	6328.6	6287.5	6287.5	6299.2
12.5°	7272.9	7138.0	6932.7	6651.2	6475.2	6316.8	6211.3	6123.3	6105.7	6105.7	6117.4
15°	7331.5	7167.3	6903.4	6569.0	6357.9	6176.1	6058.8	5964.9	5929.7	5953.2	5959.1
17.5°	7384.3	7184.9	6850.6	6463.5	6211.3	6011.8	5882.8	5800.7	5753.8	5806.6	5806.6
20°	7419.5	7184.9	6774.3	6328.6	6052.9	5830.0	5706.9	5607.1	5572.0	5636.5	5642.3
22.5°	7472.3	7179.0	6692.2	6193.7	5882.8	5648.2	5525.0	5448.8	5431.2	5501.6	5525.0
25°	7530.9	7190.8	6604.2	6041.2	5695.1	5466.4	5372.5	5337.3	5349.1	5437.1	5466.4
27.5°	7595.5	7214.2	6516.3	5871.1	5489.8	5284.6	5231.8	5249.4	5296.3	5407.7	5442.9
30°	7654.1	7220.1	6393.1	5671.7	5255.2	5061.7	5085.1	5161.4	5231.8	5343.2	5384.3
32.5°	7730.4	7225.9	6264.0	5454.6	5003.0	4862.3	4967.8	5091.0	5161.4	5267.0	5313.9
35°	7918.0	7325.7	6164.3	5243.5	4768.4	4692.2	4868.1	5026.5	5067.5	5161.4	5202.4
37.5°	8135.1	7489.9	6111.6	5026.5	4539.7	4522.1	4745.0	4903.3	4915.1	4973.7	5014.8
40°	8270.0	7560.3	6052.9	4844.7	4334.4	4346.1	4574.9	4698.0	4674.6	4715.6	4745.0
42.5°	8404.9	7583.7	5929.7	4692.2	4140.8	4152.6	4328.5	4416.5	4428.2	4516.2	4557.3
45°	8633.6	7648.2	5794.8	4551.4	3964.9	3923.8	4029.4	4146.7	4299.2	4469.3	4516.2
47.5°	8938.6	7783.1	5654.1	4381.3	3794.8	3659.9	3701.0	3906.2	4064.6	4223.0	4252.3
50°	9249.4	7918.0	5525.0	4176.0	3624.7	3378.4	3396.0	3583.6	3712.7	3835.9	3853.4
52.5°	9554.4	8035.3	5413.6	3982.5	3431.2	3044.0	3114.4	3308.0	3396.0	3454.6	3472.2
55°	9859.4	8135.1	5313.9	3818.3	3208.3	2780.1	2844.6	3026.5	3114.4	3143.8	3155.5
57.5°	10176.1	8252.4	5237.6	3677.5	2956.1	2545.5	2586.6	2715.6	2797.7	2832.9	2821.2
60°	10440.1	8352.1	5196.6	3530.9	2703.9	2328.5	2316.8	2434.1	2551.4	2586.6	2574.8
62.5°	10645.4	8416.6	5132.1	3343.2	2481.0	2111.5	2052.8	2205.3	2328.5	2352.0	2369.5
65°	10756.8	8422.4	4973.7	3102.7	2252.2	1876.9	1835.8	1988.3	2064.6	2088.0	2088.0
67.5°	10739.2	8328.6	4662.8	2780.1	2041.1	1665.7	1630.5	1724.4	1835.8	1853.4	1835.8
70°	10375.6	7941.5	4164.3	2439.9	1788.9	1478.0	1413.5	1507.4	1612.9	1548.4	1519.1
72.5°	9343.3	6938.5	3431.2	2064.6	1507.4	1243.4	1214.1	1307.9	1313.8	1325.5	1296.2
75°	7372.6	5167.3	2569.0	1607.1	1220.0	1044.0	1038.1	1020.5	1044.0	1090.9	1055.7
77.5°	3871.0	2580.7	1390.1	985.4	885.6	838.7	797.7	791.8	862.2	891.5	856.3
80°	2099.7	1448.7	797.7	592.4	539.6	545.5	598.3	586.5	662.8	680.4	651.0
82.5°	915.0	686.2	393.0	357.8	357.8	351.9	369.5	410.6	492.7	492.7	393.0
85°	199.4	170.1	152.5	176.0	199.4	199.4	199.4	199.4	140.8	76.2	52.8
87.5°	64.5	64.5	64.5	70.4	76.2	76.2	64.5	46.9	29.3	5.9	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)