

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: P841816

Luminaire Tested: **ARCH4-230-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841816
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: ARCH4-230-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34733 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

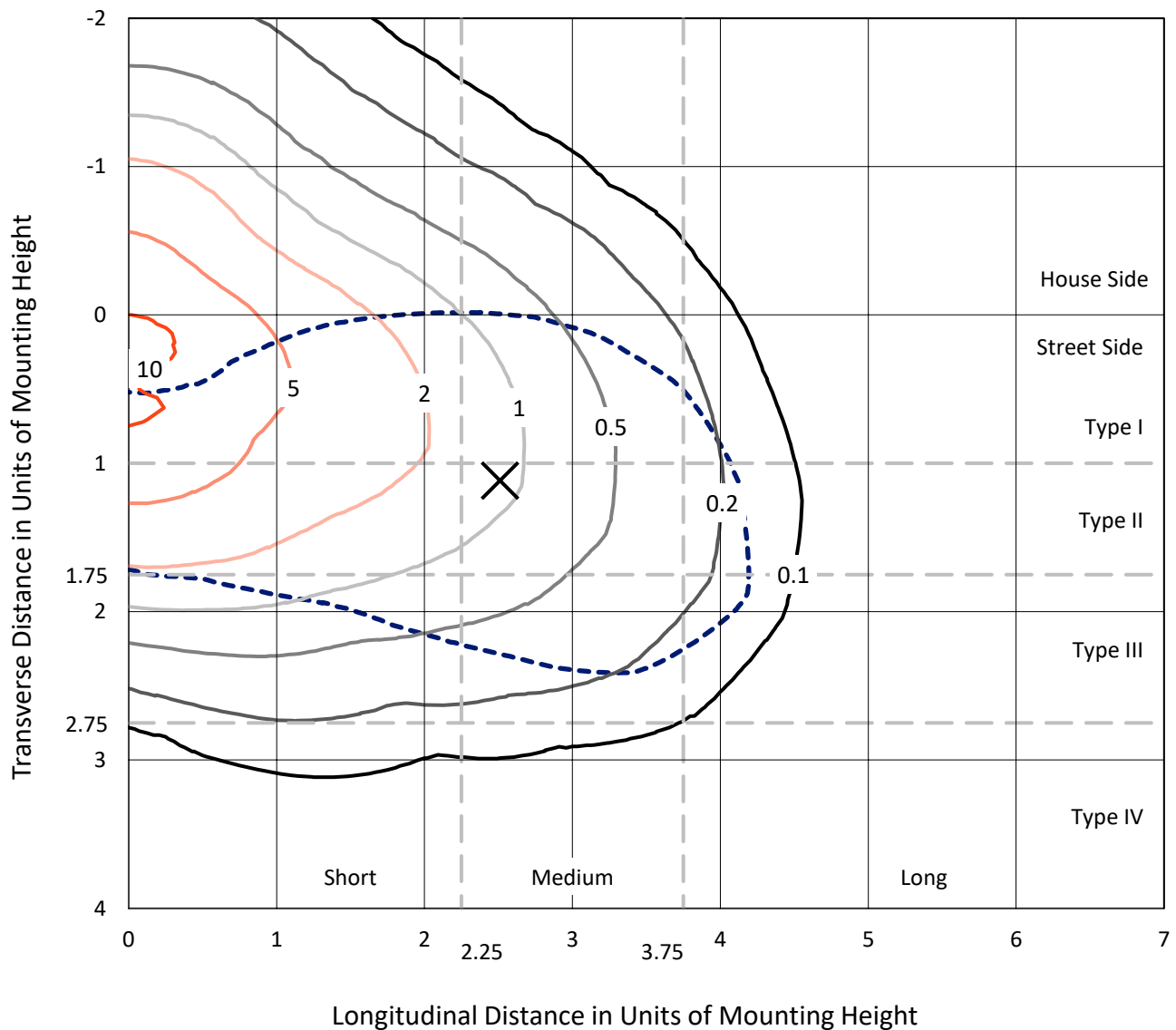
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

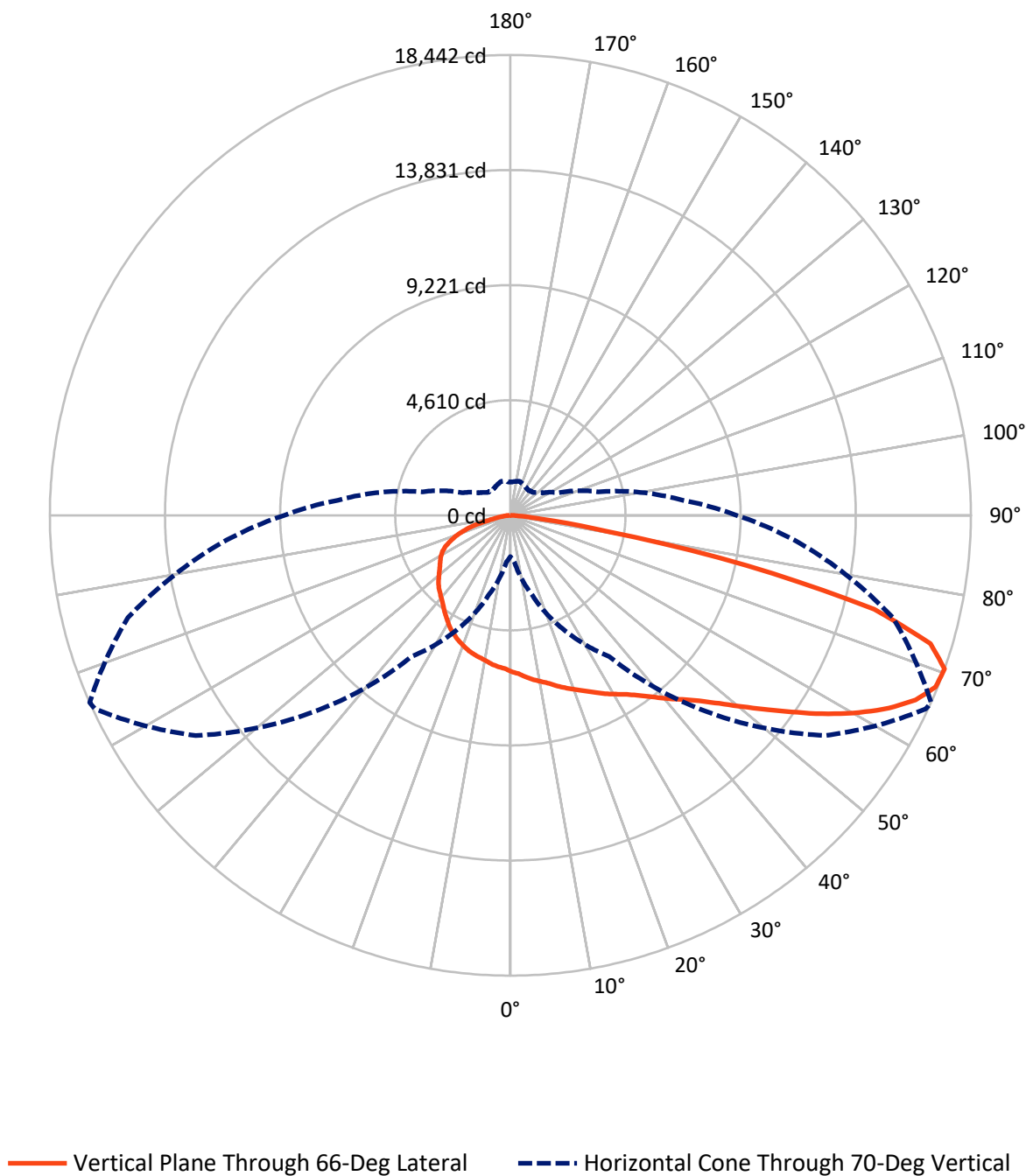
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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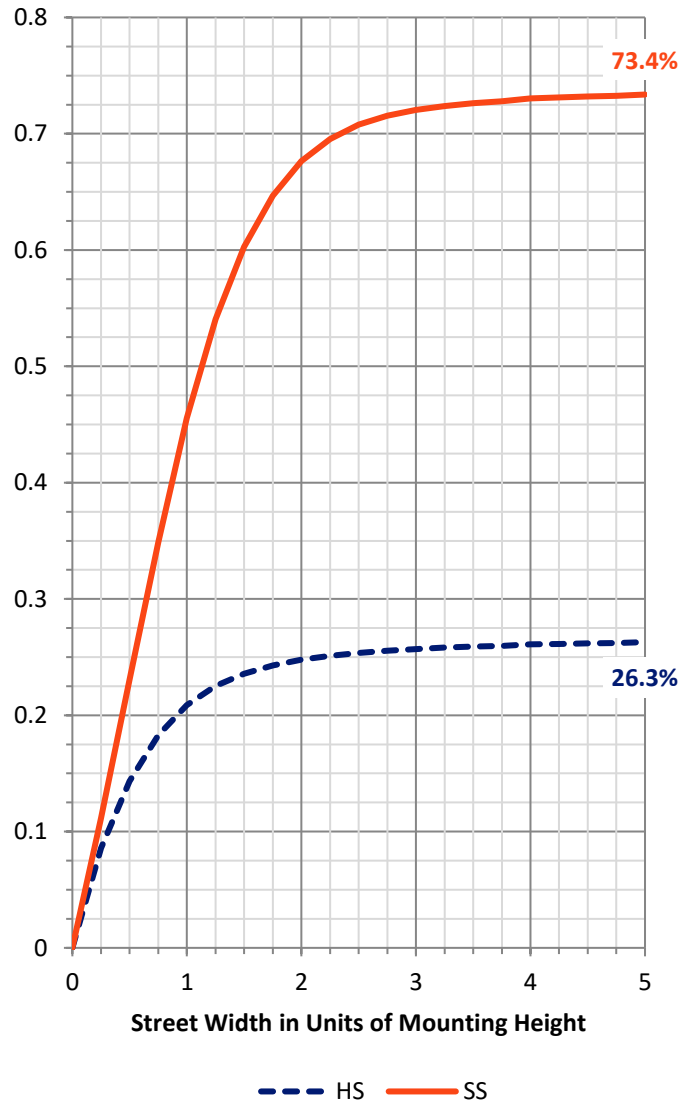
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9203.5	0.0	9203.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	25529.6	0.0	25529.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	34733.0	0.0	34733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.3	1.7
10°-20°	1806.8	5.2
20°-30°	3028.8	8.7
30°-40°	4535.1	13.1
40°-50°	6063.4	17.5
50°-60°	7079.3	20.4
60°-70°	7039.2	20.3
70°-80°	4167.3	12.0
80°-90°	410.7	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°	34733.0	100.0
0°-180°	34733.0	100.0

Coefficient of Utilization



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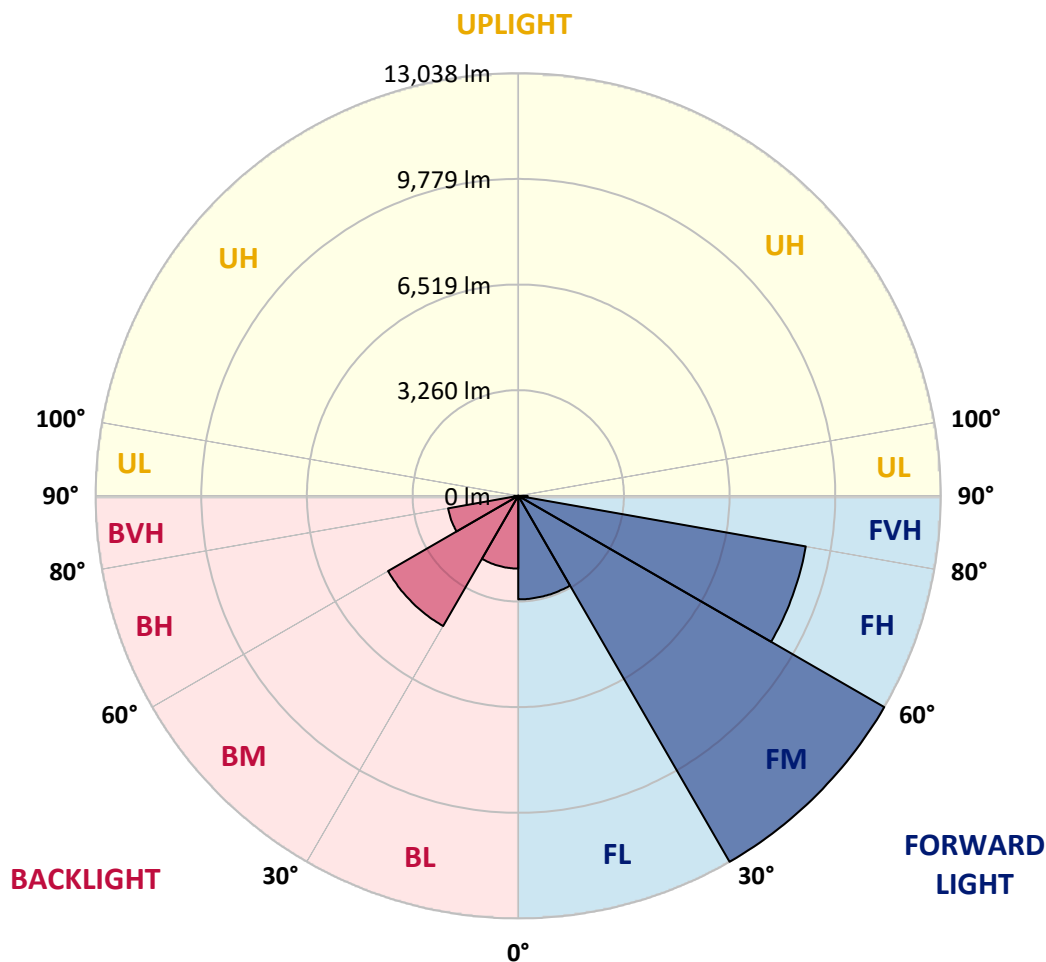
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3194.5	9.2			
FM	(30°-60°)	13038.3	37.5			
FH	(60°-80°)	9008.1	25.9			G4/12000
FVH	(80°-90°)	288.7	0.8			G3/500
BL	(0°-30°)	2243.4	6.5	B3/2500		
BM	(30°-60°)	4639.5	13.4	B3/5000		
BH	(60°-80°)	2198.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	122.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5
2.5°	6499.0	6488.7	6483.6	6463.1	6417.0	6437.5	6391.4	6360.7	6355.6	6283.9	6242.9
5°	6765.3	6760.2	6749.9	6719.2	6647.5	6657.7	6580.9	6524.6	6509.2	6396.5	6309.5
7.5°	6990.6	6980.4	6975.3	6934.3	6857.5	6852.3	6760.2	6678.2	6652.6	6499.0	6365.8
10°	7164.7	7149.4	7159.6	7118.7	7036.7	7021.4	6903.6	6796.0	6770.4	6575.8	6391.4
12.5°	7313.3	7303.0	7318.4	7282.5	7216.0	7200.6	7082.8	6944.5	6913.8	6688.5	6447.8
15°	7477.2	7441.3	7472.0	7456.7	7410.6	7405.5	7297.9	7144.3	7103.3	6831.9	6534.8
17.5°	7564.2	7543.7	7579.6	7584.7	7564.2	7600.1	7497.6	7313.3	7277.4	6965.0	6611.6
20°	7625.7	7594.9	7635.9	7666.6	7682.0	7753.7	7671.8	7492.5	7451.5	7093.1	6683.3
22.5°	7835.6	7769.1	7774.2	7794.7	7804.9	7907.3	7856.1	7682.0	7641.0	7251.8	6770.4
25°	8363.1	8230.0	8142.9	8081.5	8009.8	8096.8	8066.1	7897.1	7861.3	7441.3	6878.0
27.5°	9182.6	9013.6	8839.4	8660.2	8378.5	8342.7	8291.4	8137.8	8096.8	7630.8	6985.5
30°	10114.6	9945.6	9740.8	9454.0	8926.5	8649.9	8532.1	8363.1	8317.1	7799.8	7087.9
32.5°	11041.6	10893.1	10688.2	10340.0	9587.1	9023.8	8772.8	8598.7	8552.6	7984.2	7210.8
35°	11763.7	11671.5	11538.4	11103.1	10242.7	9464.2	9121.1	8911.1	8859.9	8276.1	7436.2
37.5°	12347.5	12281.0	12168.3	11712.5	10719.0	9904.7	9520.6	9279.9	9223.5	8593.6	7676.9
40°	13207.9	13033.8	12941.6	12281.0	11133.8	10304.1	9971.2	9720.3	9658.8	8931.6	7871.5
42.5°	13940.3	13812.2	13699.6	12788.0	11528.1	10647.3	10396.3	10165.9	10083.9	9264.5	8081.5
45°	14063.2	14114.4	14058.1	13038.9	12152.9	10985.3	10826.5	10678.0	10601.2	9715.2	8399.0
47.5°	14068.3	14068.3	13735.4	13182.3	12926.3	11364.2	11287.4	11338.6	11256.7	10288.8	8778.0
50°	13699.6	13766.2	13592.0	13218.2	13131.1	11743.2	11850.8	12127.3	12045.4	10898.2	9187.7
52.5°	12936.5	13156.7	13151.6	13161.8	12834.1	12065.9	12444.8	13074.8	12936.5	11584.5	9623.0
55°	11589.6	12030.0	12424.4	12762.4	12578.0	12260.5	13172.1	14083.7	13940.3	12352.7	10063.4
57.5°	10437.3	10719.0	11210.6	12168.3	12275.8	12429.5	13853.2	15138.7	15010.6	13202.8	10524.3
60°	9121.1	9510.3	10002.0	11364.2	11907.1	12649.7	14600.9	16168.1	16045.1	14063.2	10969.9
62.5°	7098.2	7600.1	8583.4	10130.0	11369.4	12788.0	15189.9	17074.5	17018.2	14877.5	11369.4
65°	4947.2	5392.8	6770.4	8614.1	10514.1	12726.5	15661.0	17883.7	17832.5	15543.3	11651.0
67.5°	2888.4	3405.7	4962.6	6934.3	9003.3	12301.4	15814.7	18360.0	18360.0	15947.8	11727.9
70°	1649.1	1889.8	3272.5	5054.8	6903.6	11128.7	15384.5	18354.9	18441.9	15855.7	11410.3
72.5°	1152.3	1259.8	2202.2	3400.6	4680.9	9003.3	14257.8	17468.9	17586.7	14985.0	10324.6
75°	896.2	973.1	1551.8	2320.0	2949.9	6114.9	11794.4	14729.0	15041.4	12772.6	8347.8
77.5°	681.1	737.5	906.5	1449.3	1889.8	3513.2	7784.4	9658.8	9679.3	7820.3	4476.0
80°	496.8	553.1	604.3	886.0	1003.8	1643.9	2939.6	4035.6	3922.9	3784.7	2422.4
82.5°	297.0	353.4	368.7	481.4	491.6	701.6	1029.4	1300.8	1249.6	1664.4	1136.9
85°	128.0	179.2	189.5	220.2	210.0	286.8	409.7	343.1	307.3	353.4	245.8
87.5°	30.7	51.2	51.2	56.3	46.1	71.7	76.8	56.3	51.2	61.5	61.5
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°	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5	6268.5
2.5°	6232.7	6217.3	6222.4	6135.4	6109.8	6084.1	6068.8	6058.5	6048.3	6063.7	6079.0
5°	6278.8	6242.9	6201.9	6073.9	6022.7	5966.4	5925.4	5889.5	5874.2	5874.2	5889.5
7.5°	6314.6	6253.2	6166.1	5997.1	5904.9	5828.1	5761.5	5715.4	5689.8	5689.8	5705.2
10°	6319.7	6232.7	6094.4	5889.5	5766.6	5654.0	5577.1	5525.9	5490.1	5490.1	5500.3
12.5°	6350.5	6232.7	6053.4	5807.6	5654.0	5515.7	5423.5	5346.7	5331.3	5331.3	5341.6
15°	6401.7	6258.3	6027.8	5735.9	5551.5	5392.8	5290.3	5208.4	5177.7	5198.2	5203.3
17.5°	6447.8	6273.6	5981.7	5643.7	5423.5	5249.4	5136.7	5065.0	5024.0	5070.1	5070.1
20°	6478.5	6273.6	5915.1	5525.9	5285.2	5090.6	4983.1	4896.0	4865.3	4921.6	4926.7
22.5°	6524.6	6268.5	5843.4	5408.1	5136.7	4931.8	4824.3	4757.7	4742.4	4803.8	4824.3
25°	6575.8	6278.8	5766.6	5275.0	4972.8	4773.1	4691.1	4660.4	4670.7	4747.5	4773.1
27.5°	6632.1	6299.2	5689.8	5126.5	4793.6	4614.3	4568.2	4583.6	4624.6	4721.9	4752.6
30°	6683.3	6304.4	5582.3	4952.3	4588.7	4419.7	4440.2	4506.8	4568.2	4665.5	4701.4
32.5°	6749.9	6309.5	5469.6	4762.8	4368.5	4245.6	4337.8	4445.3	4506.8	4599.0	4639.9
35°	6913.8	6396.5	5382.5	4578.5	4163.6	4097.1	4250.7	4389.0	4424.8	4506.8	4542.6
37.5°	7103.3	6539.9	5336.4	4389.0	3963.9	3948.6	4143.2	4281.4	4291.7	4342.9	4378.7
40°	7221.1	6601.4	5285.2	4230.2	3784.7	3794.9	3994.6	4102.2	4081.7	4117.6	4143.2
42.5°	7338.9	6621.9	5177.7	4097.1	3615.7	3625.9	3779.5	3856.4	3866.6	3943.4	3979.3
45°	7538.6	6678.2	5059.9	3974.2	3462.0	3426.2	3518.4	3620.8	3753.9	3902.5	3943.4
47.5°	7804.9	6796.0	4937.0	3825.6	3313.5	3195.7	3231.6	3410.8	3549.1	3687.4	3713.0
50°	8076.3	6913.8	4824.3	3646.4	3165.0	2949.9	2965.3	3129.1	3241.8	3349.4	3364.7
52.5°	8342.7	7016.2	4727.0	3477.4	2996.0	2658.0	2719.4	2888.4	2965.3	3016.5	3031.8
55°	8609.0	7103.3	4639.9	3334.0	2801.4	2427.5	2483.8	2642.6	2719.4	2745.0	2755.3
57.5°	8885.5	7205.7	4573.4	3211.1	2581.2	2222.7	2258.5	2371.2	2442.9	2473.6	2463.4
60°	9116.0	7292.8	4537.5	3083.0	2360.9	2033.2	2022.9	2125.4	2227.8	2258.5	2248.3
62.5°	9295.2	7349.1	4481.2	2919.2	2166.3	1843.7	1792.5	1925.6	2033.2	2053.7	2069.0
65°	9392.5	7354.2	4342.9	2709.2	1966.6	1638.8	1603.0	1736.1	1802.7	1823.2	1823.2
67.5°	9377.2	7272.3	4071.5	2427.5	1782.2	1454.5	1423.7	1505.7	1603.0	1618.3	1603.0
70°	9059.6	6934.3	3636.1	2130.5	1562.0	1290.6	1234.2	1316.2	1408.4	1352.0	1326.4
72.5°	8158.3	6058.5	2996.0	1802.7	1316.2	1085.7	1060.1	1142.1	1147.2	1157.4	1131.8
75°	6437.5	4511.9	2243.1	1403.2	1065.2	911.6	906.5	891.1	911.6	952.6	921.8
77.5°	3380.1	2253.4	1213.8	860.4	773.3	732.4	696.5	691.4	752.8	778.4	747.7
80°	1833.4	1265.0	696.5	517.3	471.2	476.3	522.4	512.1	578.7	594.1	568.5
82.5°	798.9	599.2	343.1	312.4	312.4	307.3	322.6	358.5	430.2	430.2	343.1
85°	174.1	148.5	133.2	153.6	174.1	174.1	174.1	174.1	122.9	66.6	46.1
87.5°	56.3	56.3	56.3	61.5	66.6	66.6	56.3	41.0	25.6	5.1	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)