

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: P842014

Luminaire Tested: **ARCH4-260-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842014
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: ARCH4-260-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33148 lumens
Efficiency: N/A
Efficacy: 127.9 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): 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



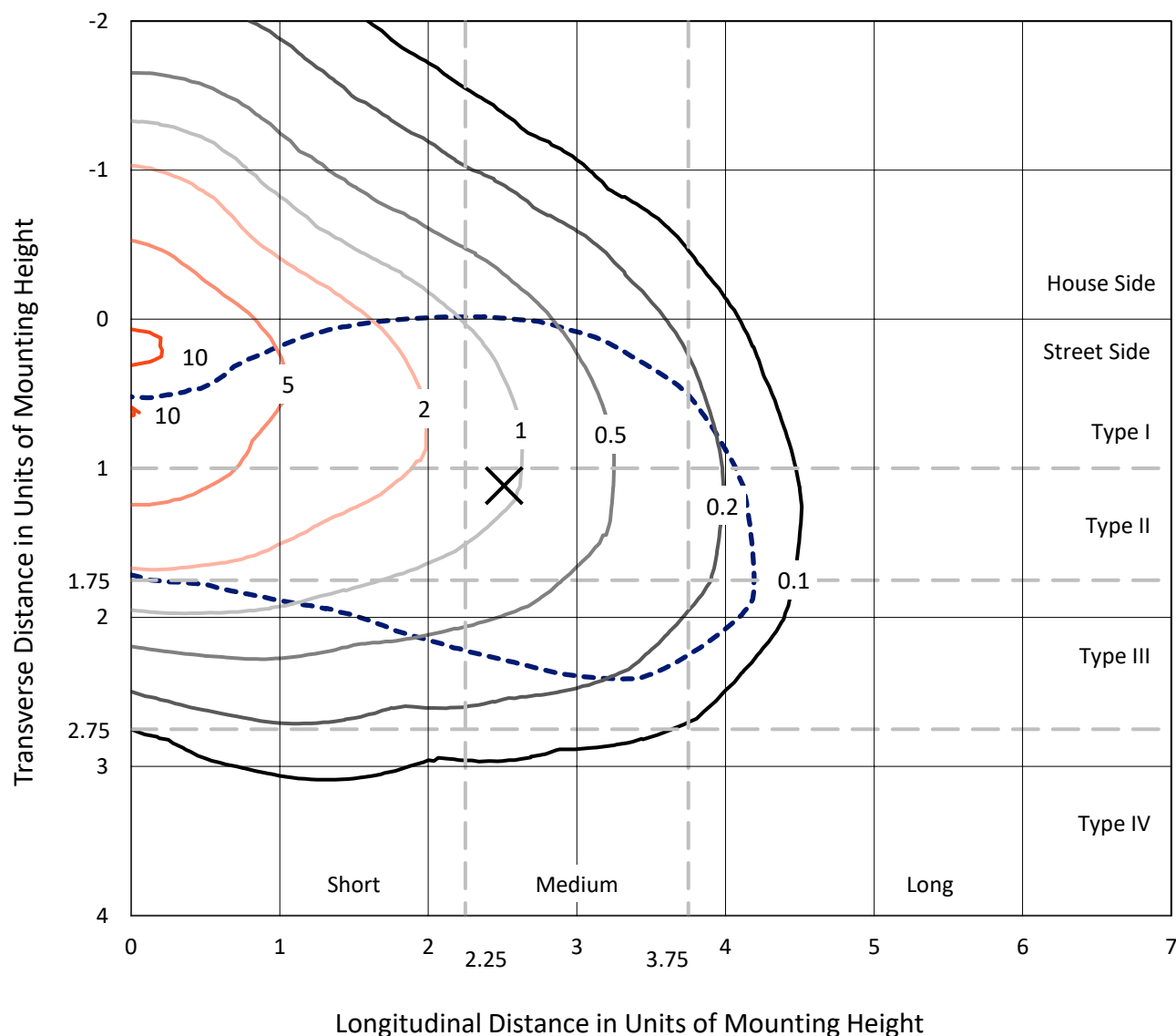
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

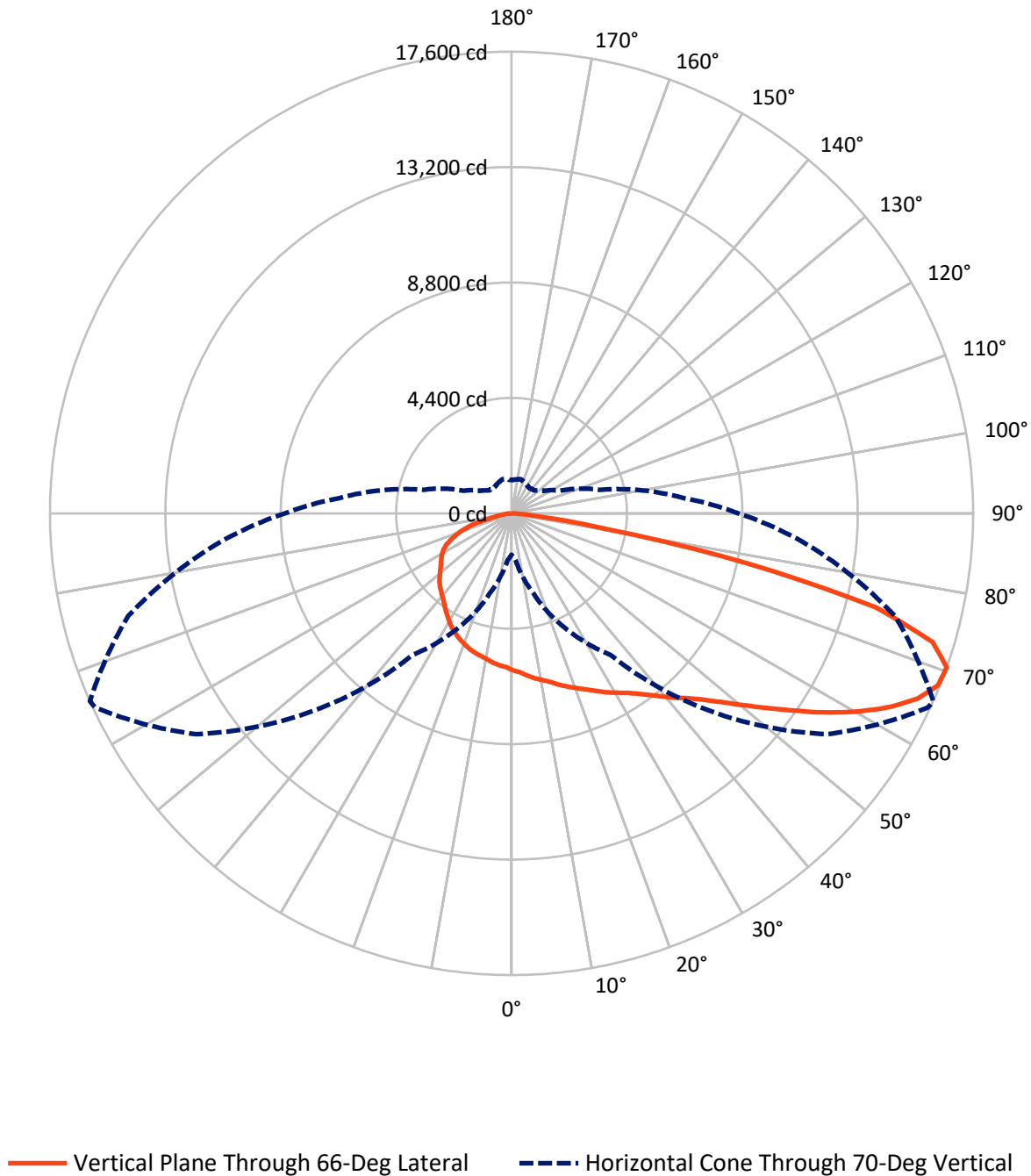
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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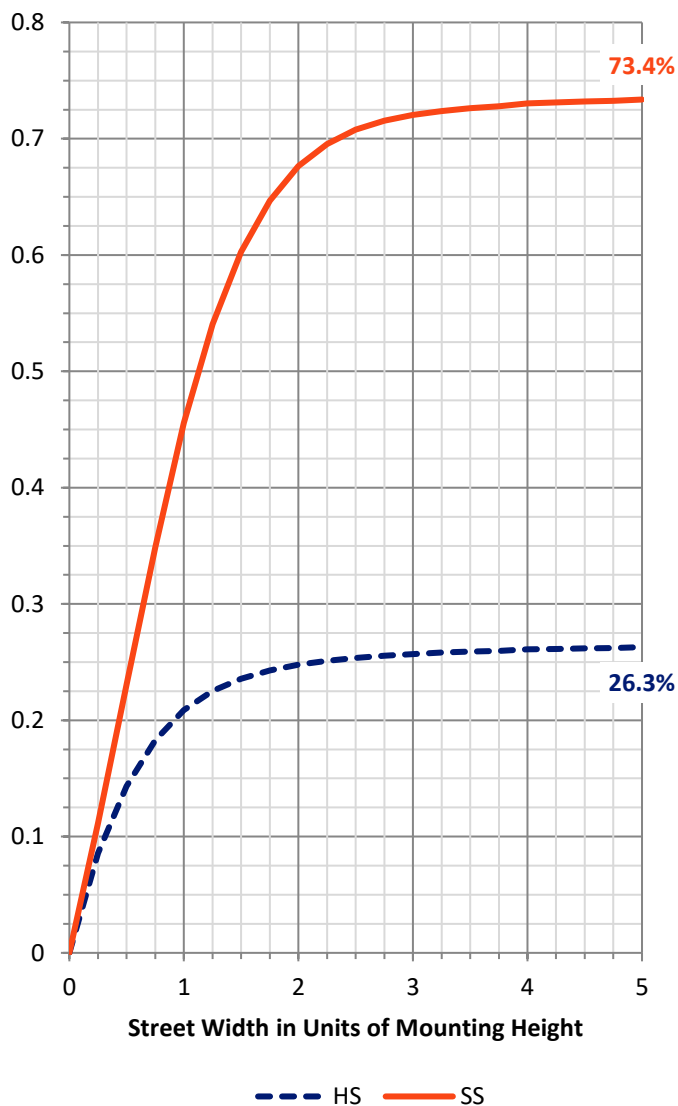
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8783.5	0.0	8783.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	24364.5	0.0	24364.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	33148.0	0.0	33148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.9	1.7
10°-20°	1724.3	5.2
20°-30°	2890.6	8.7
30°-40°	4328.1	13.1
40°-50°	5786.7	17.5
50°-60°	6756.2	20.4
60°-70°	6718.0	20.3
70°-80°	3977.1	12.0
80°-90°	392.0	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°	33148.0	100.0
0°-180°	33148.0	100.0

Coefficient of Utilization



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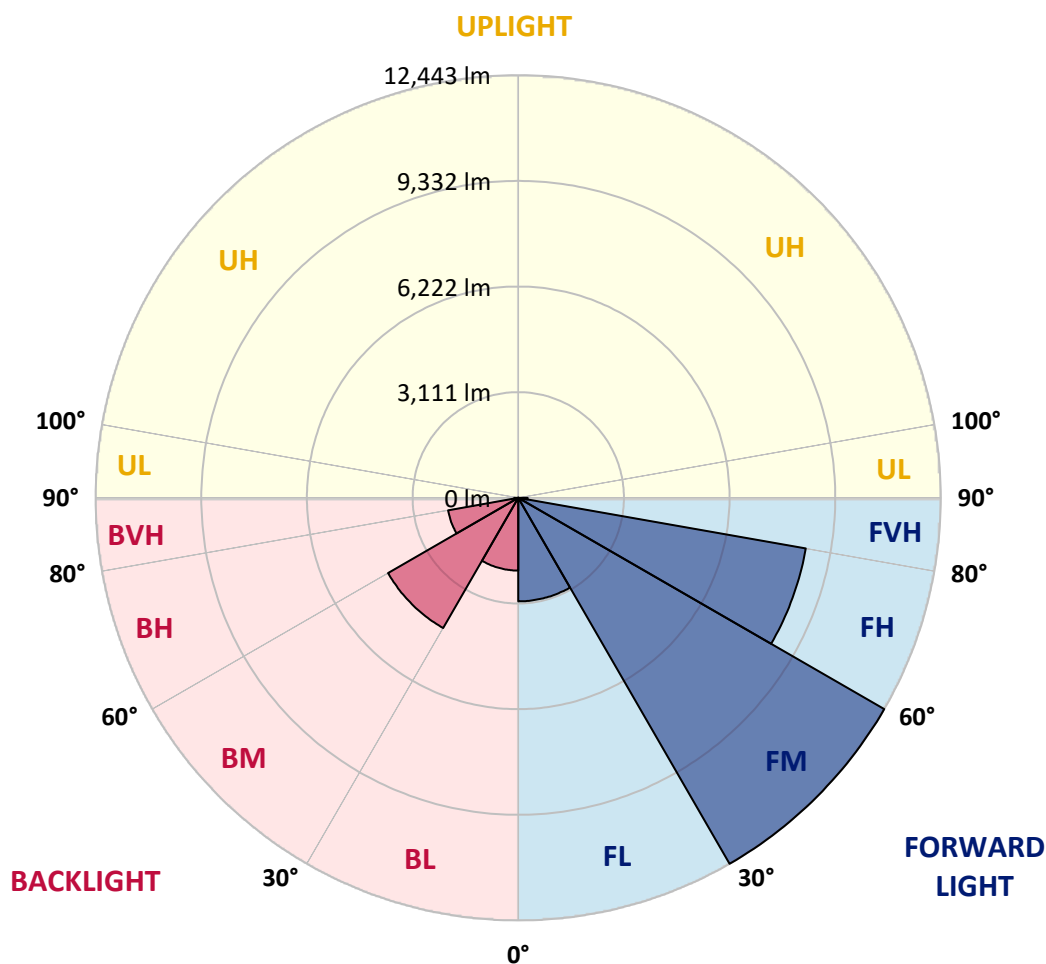
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3048.7	9.2			
FM	(30°-60°)	12443.3	37.5			
FH	(60°-80°)	8597.0	25.9			G4/12000
FVH	(80°-90°)	275.5	0.8			G3/500
BL	(0°-30°)	2141.0	6.5	B3/2500		
BM	(30°-60°)	4427.8	13.4	B3/5000		
BH	(60°-80°)	2098.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	116.5	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°	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5
2.5°	6202.4	6192.6	6187.7	6168.2	6124.2	6143.8	6099.8	6070.4	6065.5	5997.1	5958.0
5°	6456.6	6451.7	6441.9	6412.6	6344.1	6353.9	6280.6	6226.8	6212.2	6104.6	6021.6
7.5°	6671.6	6661.8	6657.0	6617.9	6544.5	6539.6	6451.7	6373.5	6349.0	6202.4	6075.3
10°	6837.8	6823.1	6832.9	6793.8	6715.6	6700.9	6588.5	6485.9	6461.4	6275.7	6099.8
12.5°	6979.5	6969.8	6984.4	6950.2	6886.7	6872.0	6759.6	6627.6	6598.3	6383.2	6153.5
15°	7135.9	7101.7	7131.1	7116.4	7072.4	7067.5	6964.9	6818.2	6779.1	6520.1	6236.6
17.5°	7219.0	7199.5	7233.7	7238.6	7219.0	7253.2	7155.5	6979.5	6945.3	6647.2	6309.9
20°	7277.7	7248.4	7287.5	7316.8	7331.4	7399.9	7321.7	7150.6	7111.5	6769.4	6378.4
22.5°	7478.1	7414.5	7419.4	7439.0	7448.7	7546.5	7497.6	7331.4	7292.3	6920.9	6461.4
25°	7981.5	7854.4	7771.3	7712.7	7644.3	7727.3	7698.0	7536.7	7502.5	7101.7	6564.1
27.5°	8763.5	8602.2	8436.0	8265.0	7996.2	7961.9	7913.1	7766.4	7727.3	7282.6	6666.7
30°	9653.1	9491.8	9296.3	9022.6	8519.1	8255.2	8142.8	7981.5	7937.5	7443.9	6764.5
32.5°	10537.7	10396.0	10200.5	9868.1	9149.6	8612.0	8372.5	8206.3	8162.3	7619.8	6881.8
35°	11226.9	11138.9	11011.8	10596.4	9775.3	9032.3	8704.9	8504.5	8455.6	7898.4	7096.8
37.5°	11784.1	11720.5	11613.0	11178.0	10229.8	9452.7	9086.1	8856.4	8802.6	8201.4	7326.6
40°	12605.2	12439.0	12351.0	11720.5	10625.7	9833.9	9516.2	9276.7	9218.1	8524.0	7512.3
42.5°	13304.1	13181.9	13074.4	12204.4	11002.1	10161.4	9921.9	9701.9	9623.7	8841.7	7712.7
45°	13421.4	13470.3	13416.5	12443.9	11598.3	10484.0	10332.4	10190.7	10117.4	9271.8	8015.7
47.5°	13426.3	13426.3	13108.6	12580.8	12336.4	10845.7	10772.3	10821.2	10743.0	9819.2	8377.4
50°	13074.4	13137.9	12971.8	12615.0	12531.9	11207.3	11310.0	11573.9	11495.7	10400.9	8768.4
52.5°	12346.2	12556.3	12551.4	12561.2	12248.4	11515.3	11876.9	12478.1	12346.2	11055.8	9183.9
55°	11060.7	11481.0	11857.4	12180.0	12004.0	11701.0	12571.0	13441.0	13304.1	11789.0	9604.2
57.5°	9961.0	10229.8	10699.0	11613.0	11715.6	11862.3	13221.0	14447.8	14325.6	12600.3	10044.1
60°	8704.9	9076.3	9545.5	10845.7	11363.7	12072.4	13934.6	15430.2	15312.9	13421.4	10469.3
62.5°	6774.3	7253.2	8191.7	9667.7	10850.5	12204.4	14496.7	16295.4	16241.6	14198.6	10850.5
65°	4721.5	5146.7	6461.4	8221.0	10034.3	12145.8	14946.4	17067.6	17018.7	14834.0	11119.4
67.5°	2756.6	3250.3	4736.1	6617.9	8592.5	11740.1	15093.0	17522.2	17522.2	15220.1	11192.7
70°	1573.8	1803.5	3123.2	4824.1	6588.5	10620.8	14682.4	17517.3	17600.4	15132.1	10889.6
72.5°	1099.7	1202.4	2101.7	3245.4	4467.3	8592.5	13607.2	16671.7	16784.1	14301.2	9853.5
75°	855.3	928.6	1481.0	2214.1	2815.3	5835.8	11256.2	14056.8	14355.0	12189.7	7966.8
77.5°	650.1	703.8	865.1	1383.2	1803.5	3352.9	7429.2	9218.1	9237.6	7463.4	4271.8
80°	474.1	527.9	576.7	845.6	958.0	1568.9	2805.5	3851.5	3743.9	3612.0	2311.8
82.5°	283.5	337.2	351.9	459.4	469.2	669.6	982.4	1241.5	1192.6	1588.5	1085.1
85°	122.2	171.1	180.8	210.2	200.4	273.7	391.0	327.5	293.3	337.2	234.6
87.5°	29.3	48.9	48.9	53.8	44.0	68.4	73.3	53.8	48.9	58.7	58.7
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°	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5	5982.5
2.5°	5948.2	5933.6	5938.5	5855.4	5830.9	5806.5	5791.8	5782.1	5772.3	5787.0	5801.6
5°	5992.2	5958.0	5918.9	5796.7	5747.9	5694.1	5655.0	5620.8	5606.1	5606.1	5620.8
7.5°	6026.4	5967.8	5884.7	5723.4	5635.4	5562.1	5498.6	5454.6	5430.2	5430.2	5444.8
10°	6031.3	5948.2	5816.3	5620.8	5503.5	5395.9	5322.6	5273.8	5239.5	5239.5	5249.3
12.5°	6060.7	5948.2	5777.2	5542.6	5395.9	5264.0	5176.0	5102.7	5088.0	5088.0	5097.8
15°	6109.5	5972.7	5752.7	5474.1	5298.2	5146.7	5048.9	4970.7	4941.4	4960.9	4965.8
17.5°	6153.5	5987.3	5708.8	5386.2	5176.0	5009.8	4902.3	4833.9	4794.8	4838.8	4838.8
20°	6182.9	5987.3	5645.2	5273.8	5044.0	4858.3	4755.7	4672.6	4643.2	4697.0	4701.9
22.5°	6226.8	5982.5	5576.8	5161.3	4902.3	4706.8	4604.1	4540.6	4525.9	4584.6	4604.1
25°	6275.7	5992.2	5503.5	5034.3	4745.9	4555.3	4477.1	4447.7	4457.5	4530.8	4555.3
27.5°	6329.5	6011.8	5430.2	4892.5	4574.8	4403.8	4359.8	4374.4	4413.5	4506.4	4535.7
30°	6378.4	6016.7	5327.5	4726.3	4379.3	4218.0	4237.6	4301.1	4359.8	4452.6	4486.8
32.5°	6441.9	6021.6	5220.0	4545.5	4169.1	4051.8	4139.8	4242.5	4301.1	4389.1	4428.2
35°	6598.3	6104.6	5136.9	4369.5	3973.6	3910.1	4056.7	4188.7	4222.9	4301.1	4335.3
37.5°	6779.1	6241.5	5092.9	4188.7	3783.0	3768.4	3954.1	4086.1	4095.8	4144.7	4178.9
40°	6891.6	6300.2	5044.0	4037.2	3612.0	3621.7	3812.4	3915.0	3895.4	3929.7	3954.1
42.5°	7004.0	6319.7	4941.4	3910.1	3450.7	3460.4	3607.1	3680.4	3690.2	3763.5	3797.7
45°	7194.6	6373.5	4829.0	3792.8	3304.0	3269.8	3357.8	3455.6	3582.6	3724.4	3763.5
47.5°	7448.7	6485.9	4711.7	3651.1	3162.3	3049.9	3084.1	3255.2	3387.1	3519.1	3543.5
50°	7707.8	6598.3	4604.1	3480.0	3020.6	2815.3	2829.9	2986.3	3093.9	3196.5	3211.2
52.5°	7961.9	6696.1	4511.3	3318.7	2859.3	2536.7	2595.3	2756.6	2829.9	2878.8	2893.5
55°	8216.1	6779.1	4428.2	3181.8	2673.5	2316.7	2370.5	2522.0	2595.3	2619.8	2629.5
57.5°	8480.0	6876.9	4364.7	3064.5	2463.4	2121.2	2155.4	2263.0	2331.4	2360.7	2351.0
60°	8700.0	6960.0	4330.4	2942.4	2253.2	1940.4	1930.6	2028.4	2126.1	2155.4	2145.7
62.5°	8871.0	7013.7	4276.7	2785.9	2067.5	1759.5	1710.7	1837.7	1940.4	1959.9	1974.6
65°	8963.9	7018.6	4144.7	2585.6	1876.8	1564.0	1529.8	1656.9	1720.4	1740.0	1740.0
67.5°	8949.3	6940.4	3885.7	2316.7	1700.9	1388.1	1358.8	1437.0	1529.8	1544.5	1529.8
70°	8646.2	6617.9	3470.2	2033.3	1490.7	1231.7	1177.9	1256.1	1344.1	1290.3	1265.9
72.5°	7786.0	5782.1	2859.3	1720.4	1256.1	1036.2	1011.7	1089.9	1094.8	1104.6	1080.2
75°	6143.8	4306.0	2140.8	1339.2	1016.6	870.0	865.1	850.4	870.0	909.1	879.8
77.5°	3225.8	2150.6	1158.4	821.1	738.0	698.9	664.7	659.8	718.5	742.9	713.6
80°	1749.8	1207.2	664.7	493.7	449.7	454.5	498.5	488.8	552.3	567.0	542.5
82.5°	762.5	571.9	327.5	298.1	298.1	293.3	307.9	342.1	410.6	410.6	327.5
85°	166.2	141.7	127.1	146.6	166.2	166.2	166.2	166.2	117.3	63.5	44.0
87.5°	53.8	53.8	53.8	58.7	63.5	63.5	53.8	39.1	24.4	4.9	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)