

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: P841589

Luminaire Tested: **ARCH4-200-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30272 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 203.7
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

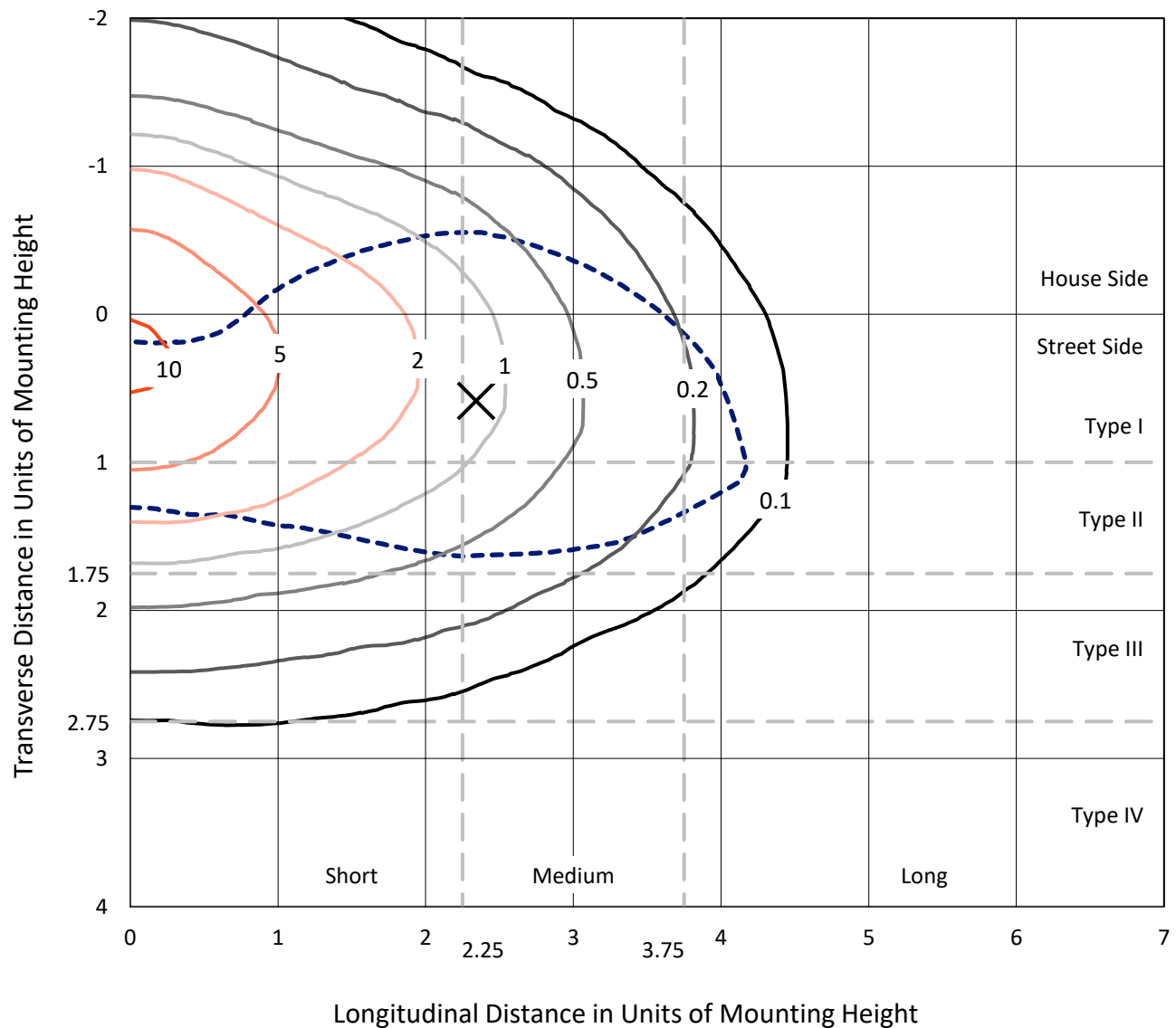


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Iso-Footcandle Lines of Horizontal Illumination

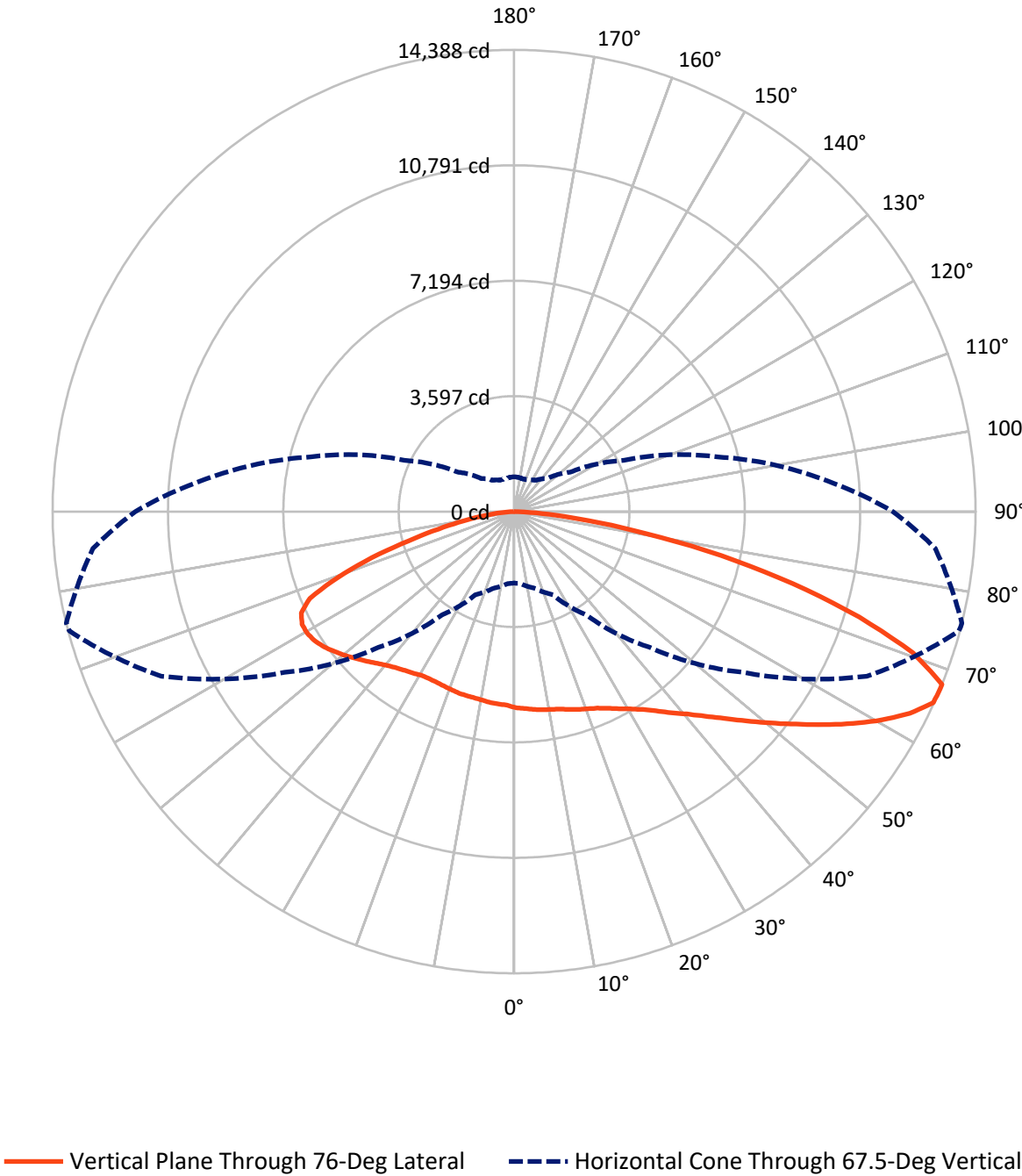
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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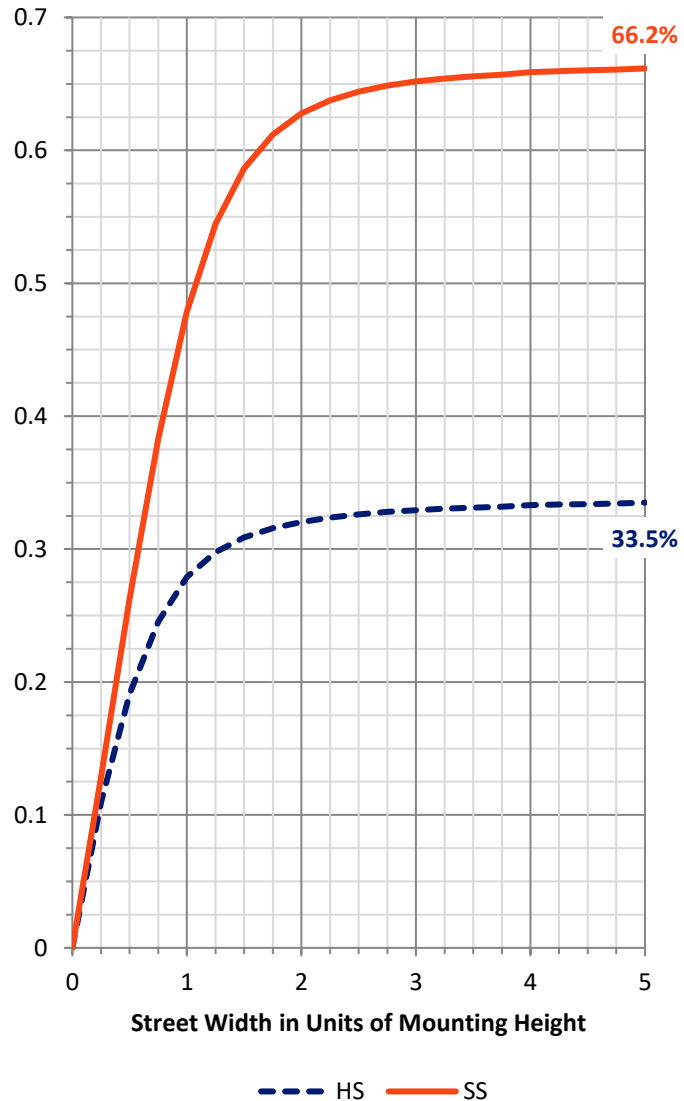
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10229.1	0.0	10229.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	20042.9	0.0	20042.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	30272.0	0.0	30272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.6	1.9
10°-20°	1802.6	6.0
20°-30°	3062.8	10.1
30°-40°	4357.9	14.4
40°-50°	5503.8	18.2
50°-60°	5958.9	19.7
60°-70°	5542.5	18.3
70°-80°	2976.8	9.8
80°-90°	477.0	1.6
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°	30272.0	100.0
0°-180°	30272.0	100.0

Coefficient of Utilization



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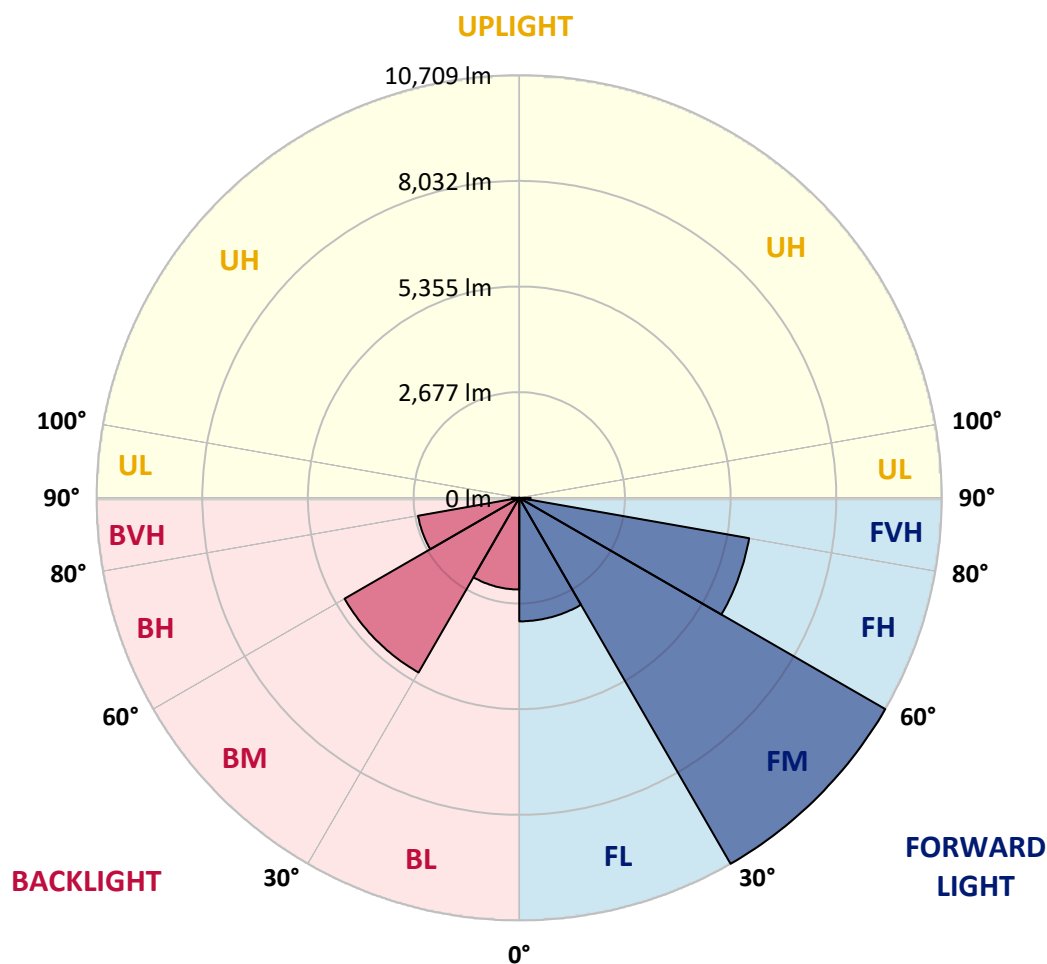
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3130.4	10.3			
FM	(30°-60°)	10709.1	35.4			
FH	(60°-80°)	5914.9	19.5			G3/7500
FVH	(80°-90°)	288.5	1.0			G3/500
BL	(0°-30°)	2324.6	7.7	B3/2500		
BM	(30°-60°)	5111.6	16.9	B4/8500		
BH	(60°-80°)	2604.4	8.6	B4/5000		G4/5000
BVH	(80°-90°)	188.5	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9
2.5°	6300.3	6289.1	6244.1	6249.8	6249.8	6244.1	6176.7	6148.6	6148.6	6143.0	6081.2
5°	6525.2	6508.3	6457.7	6446.5	6424.0	6395.9	6289.1	6227.3	6199.2	6193.6	6109.3
7.5°	6789.3	6766.8	6705.0	6671.3	6615.1	6542.0	6407.1	6311.6	6244.1	6238.5	6120.5
10°	7053.5	7031.0	6957.9	6896.1	6817.4	6699.4	6525.2	6384.7	6277.9	6266.6	6126.1
12.5°	7368.2	7345.7	7255.8	7177.1	7059.1	6901.7	6671.3	6480.2	6334.1	6317.2	6143.0
15°	7699.8	7666.1	7576.2	7486.2	7340.1	7137.8	6862.4	6609.5	6424.0	6395.9	6193.6
17.5°	7975.2	7930.2	7857.2	7767.2	7604.3	7368.2	7053.5	6738.7	6508.3	6485.8	6244.1
20°	8211.2	8177.5	8098.8	8014.5	7840.3	7581.8	7233.3	6868.0	6587.0	6558.9	6283.5
22.5°	8436.1	8391.1	8346.1	8284.3	8093.2	7806.6	7441.3	7025.4	6688.1	6654.4	6334.1
25°	8694.6	8644.0	8627.1	8593.4	8368.6	8076.4	7694.2	7222.1	6828.7	6789.3	6424.0
27.5°	9014.9	8958.7	8925.0	8925.0	8655.2	8351.8	7964.0	7452.5	6991.6	6957.9	6536.4
30°	9352.2	9284.7	9234.1	9234.1	8930.6	8627.1	8228.1	7682.9	7177.1	7137.8	6682.5
32.5°	9650.0	9582.6	9526.4	9520.8	9206.0	8902.5	8503.5	7935.9	7401.9	7351.3	6862.4
35°	9880.5	9818.6	9768.1	9779.3	9481.4	9183.6	8812.6	8273.1	7682.9	7626.7	7098.4
37.5°	10021.0	9998.5	9970.4	10009.7	9734.3	9453.3	9133.0	8599.0	8003.3	7952.7	7390.7
40°	10094.0	10077.2	10189.6	10240.2	9947.9	9695.0	9453.3	8936.3	8351.8	8295.6	7727.9
42.5°	10200.8	10341.3	10386.3	10375.1	10105.3	9880.5	9745.6	9301.6	8762.0	8711.5	8132.6
45°	9818.6	9784.9	10032.2	10167.1	10116.5	9998.5	10021.0	9740.0	9239.8	9189.2	8599.0
47.5°	9307.2	9262.2	9402.7	9734.3	9931.1	10043.5	10268.3	10195.2	9790.5	9745.6	9144.2
50°	8228.1	8289.9	8812.6	9256.6	9644.4	10032.2	10476.2	10684.2	10397.5	10352.6	9728.7
52.5°	7031.0	7092.8	7638.0	8660.9	9296.0	9947.9	10628.0	11173.1	11055.1	11004.5	10352.6
55°	6159.8	6294.7	6913.0	7654.8	8801.4	9683.8	10717.9	11673.3	11763.3	11718.3	11032.6
57.5°	5294.3	5395.5	5862.0	6519.5	8126.9	9222.9	10712.3	12139.8	12505.1	12460.2	11723.9
60°	4277.0	4406.3	4777.2	5485.4	7227.7	8672.1	10554.9	12505.1	13218.9	13185.2	12392.7
62.5°	3580.1	3619.5	3883.6	4496.2	6069.9	7975.2	10200.8	12701.9	13865.3	13842.8	12994.1
65°	2883.2	2888.8	3130.5	3641.9	4951.5	7109.7	9599.5	12628.8	14354.2	14365.5	13426.9
67.5°	2225.6	2253.7	2472.9	2860.7	3934.2	5985.6	8739.6	12134.2	14359.8	14387.9	13179.6
70°	1540.0	1562.4	1894.0	2270.6	3040.6	4771.6	7576.2	10824.7	13179.6	13202.1	11813.9
72.5°	1084.7	1096.0	1450.0	1815.4	2377.4	3597.0	5715.8	8953.1	11235.0	11251.8	9936.7
75°	809.3	820.6	1022.9	1377.0	1821.0	2489.8	3906.1	6856.8	8975.6	8975.6	7845.9
77.5°	573.3	578.9	663.2	949.8	1214.0	1680.5	2349.3	4490.6	6587.0	6598.2	5715.8
80°	387.8	393.4	432.8	640.7	758.7	910.5	1275.8	2354.9	4153.4	4170.3	3630.7
82.5°	202.3	213.6	241.7	326.0	382.2	505.8	657.6	1197.1	2298.7	2343.7	2180.7
85°	78.7	78.7	89.9	106.8	140.5	196.7	303.5	455.2	1039.8	1073.5	961.1
87.5°	28.1	28.1	33.7	33.7	39.3	45.0	50.6	67.4	118.0	118.0	112.4
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°	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9	6114.9
2.5°	6058.7	6058.7	6030.6	6041.8	6036.2	6025.0	6013.7	6030.6	6013.7	5974.4	5968.7
5°	6069.9	6058.7	6013.7	6008.1	5991.2	5968.7	5940.6	5951.9	5923.8	5890.1	5884.4
7.5°	6075.5	6053.1	5991.2	5968.7	5935.0	5890.1	5845.1	5845.1	5805.8	5772.0	5766.4
10°	6064.3	6036.2	5951.9	5906.9	5845.1	5777.7	5715.8	5699.0	5654.0	5614.7	5614.7
12.5°	6069.9	6030.6	5923.8	5850.7	5766.4	5682.1	5603.4	5580.9	5541.6	5502.3	5496.6
15°	6103.6	6047.4	5912.5	5817.0	5693.4	5597.8	5513.5	5496.6	5462.9	5434.8	5434.8
17.5°	6137.4	6064.3	5895.7	5760.8	5609.1	5502.3	5423.6	5423.6	5401.1	5384.2	5384.2
20°	6154.2	6069.9	5862.0	5682.1	5507.9	5395.5	5322.4	5333.7	5328.0	5322.4	5322.4
22.5°	6193.6	6081.2	5833.9	5609.1	5401.1	5283.1	5215.6	5232.5	5226.9	5226.9	5232.5
25°	6255.4	6109.3	5811.4	5541.6	5299.9	5170.7	5097.6	5108.8	5108.8	5108.8	5108.8
27.5°	6339.7	6165.5	5805.8	5479.8	5198.8	5052.6	4962.7	4962.7	4940.2	4945.9	4951.5
30°	6469.0	6272.2	5817.0	5423.6	5092.0	4906.5	4799.7	4782.9	4777.2	4788.5	4794.1
32.5°	6626.3	6418.4	5884.4	5384.2	4979.6	4743.5	4608.6	4603.0	4586.2	4586.2	4586.2
35°	6823.0	6558.9	5946.3	5378.6	4867.2	4569.3	4423.2	4406.3	4367.0	4350.1	4350.1
37.5°	7075.9	6778.1	6019.3	5339.3	4771.6	4400.7	4226.5	4170.3	4125.3	4119.7	4119.7
40°	7385.1	7025.4	6126.1	5294.3	4670.5	4226.5	3996.0	3900.5	3906.1	3928.6	3928.6
42.5°	7750.4	7328.9	6261.0	5271.8	4524.3	4046.6	3726.3	3613.8	3653.2	3675.7	3681.3
45°	8177.5	7688.6	6412.8	5243.7	4389.4	3844.3	3439.6	3299.1	3316.0	3321.6	3327.2
47.5°	8672.1	8087.6	6570.1	5221.3	4237.7	3591.4	3124.9	2939.4	2933.8	2900.1	2911.3
50°	9189.2	8509.1	6733.1	5181.9	4052.2	3293.5	2793.3	2574.1	2529.1	2478.5	2484.2
52.5°	9740.0	8941.9	6884.9	5120.1	3821.8	2990.0	2478.5	2242.5	2152.6	2096.4	2107.6
55°	10347.0	9385.9	7031.0	5024.5	3580.1	2686.5	2197.5	1955.9	1843.5	1798.5	1804.1
57.5°	10903.4	9813.0	7137.8	4906.5	3316.0	2411.1	1950.2	1714.2	1641.1	1635.5	1641.1
60°	11442.9	10172.7	7182.7	4743.5	3046.2	2158.2	1719.8	1540.0	1489.4	1517.5	1523.1
62.5°	11898.2	10403.2	7160.3	4524.3	2770.8	1916.5	1534.3	1405.1	1371.4	1427.6	1433.2
65°	12162.3	10476.2	7002.9	4209.6	2472.9	1680.5	1360.1	1219.6	1202.7	1236.5	1253.3
67.5°	11813.9	10021.0	6575.7	3776.8	2141.3	1461.3	1191.5	1079.1	1051.0	1079.1	1079.1
70°	10470.6	8683.4	5564.1	3091.2	1776.0	1247.7	1034.1	955.4	933.0	955.4	949.8
72.5°	8722.7	7222.1	4383.8	2411.1	1399.5	1051.0	899.2	826.2	803.7	781.2	770.0
75°	6766.8	5485.4	3181.1	1770.4	1056.6	843.0	753.1	685.7	629.5	652.0	640.7
77.5°	4957.1	3849.9	2253.7	1225.2	758.7	652.0	590.1	539.5	500.2	545.2	539.5
80°	3192.3	2489.8	1506.2	820.6	522.7	455.2	432.8	404.7	444.0	578.9	590.1
82.5°	1950.2	1579.3	899.2	533.9	342.8	303.5	281.0	281.0	455.2	500.2	505.8
85°	871.1	837.4	489.0	275.4	191.1	174.2	157.4	202.3	185.5	134.9	140.5
87.5°	140.5	146.1	106.8	95.5	73.1	73.1	56.2	39.3	28.1	16.9	16.9
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)