

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: P841699

Luminaire Tested: **ARCH4-210-750-U-T3**

Issue Date: 5/27/2024

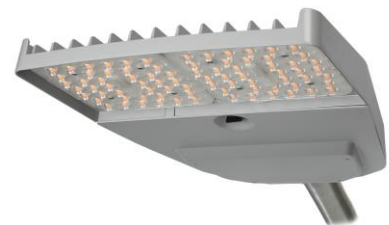
Test Information

Test Method: LM-79-08
Report Number: P841699
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: ARCH4-210-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34093 lumens
Efficiency: N/A
Efficacy: 160.0 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): 213.1
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



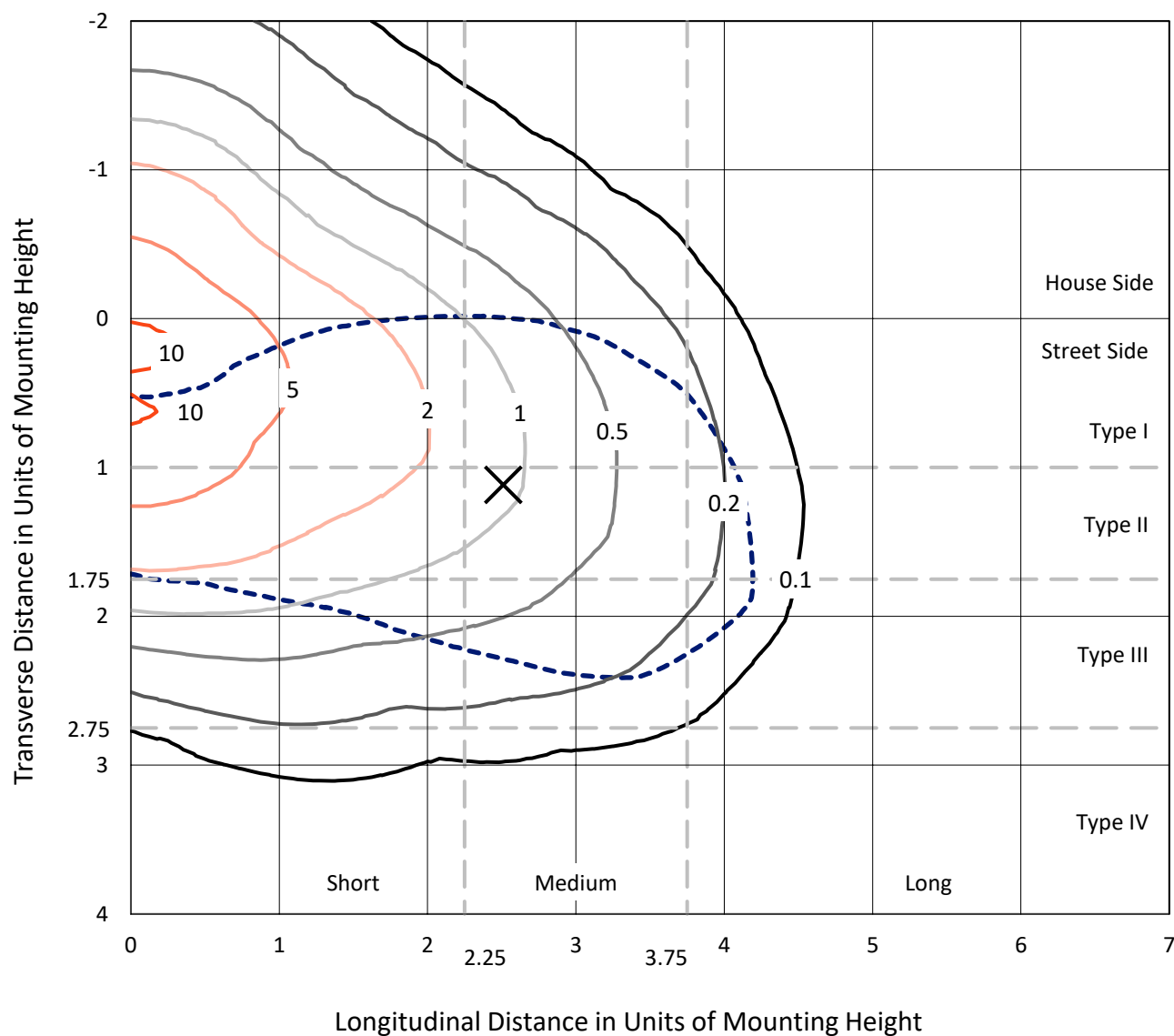
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

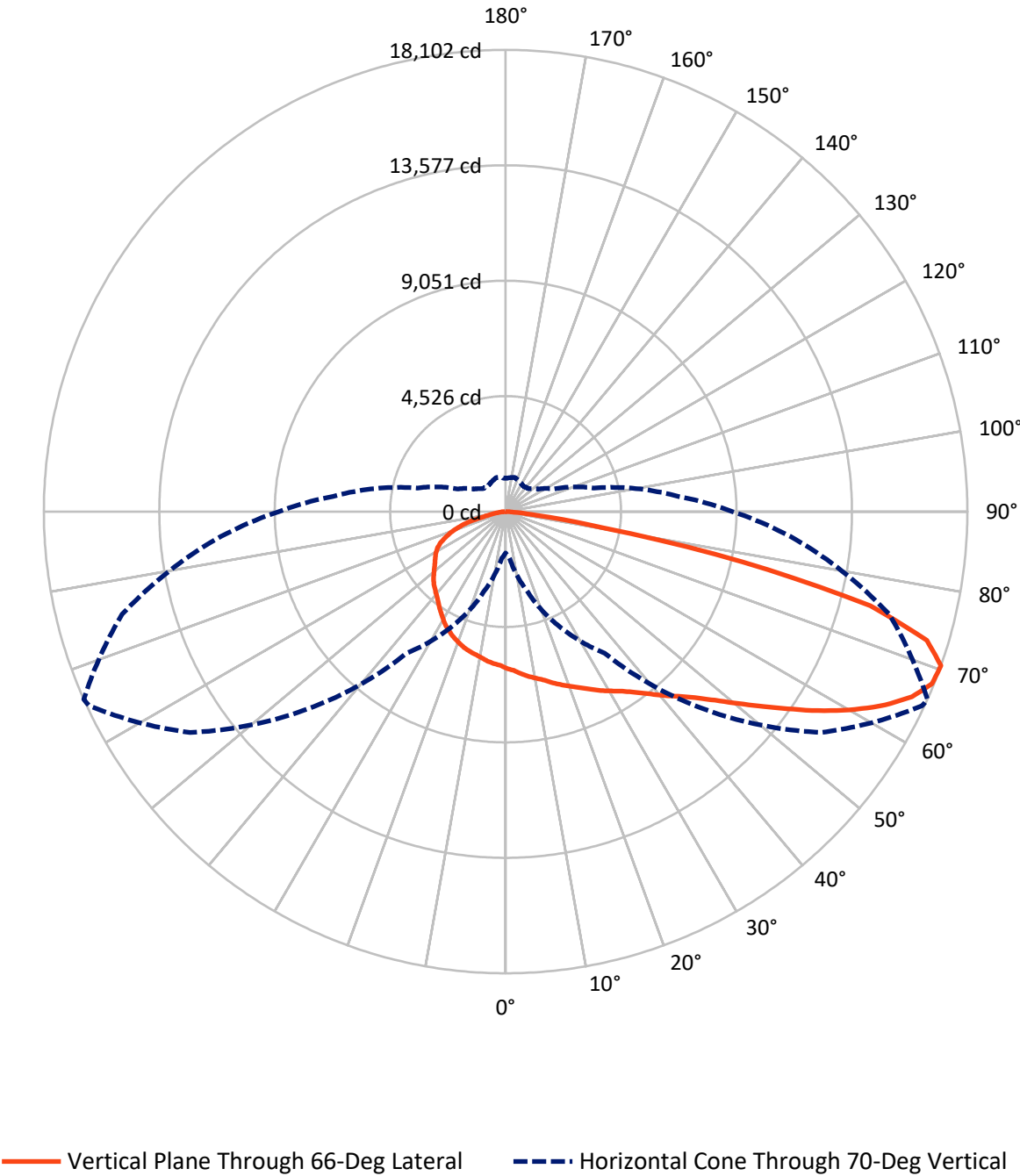
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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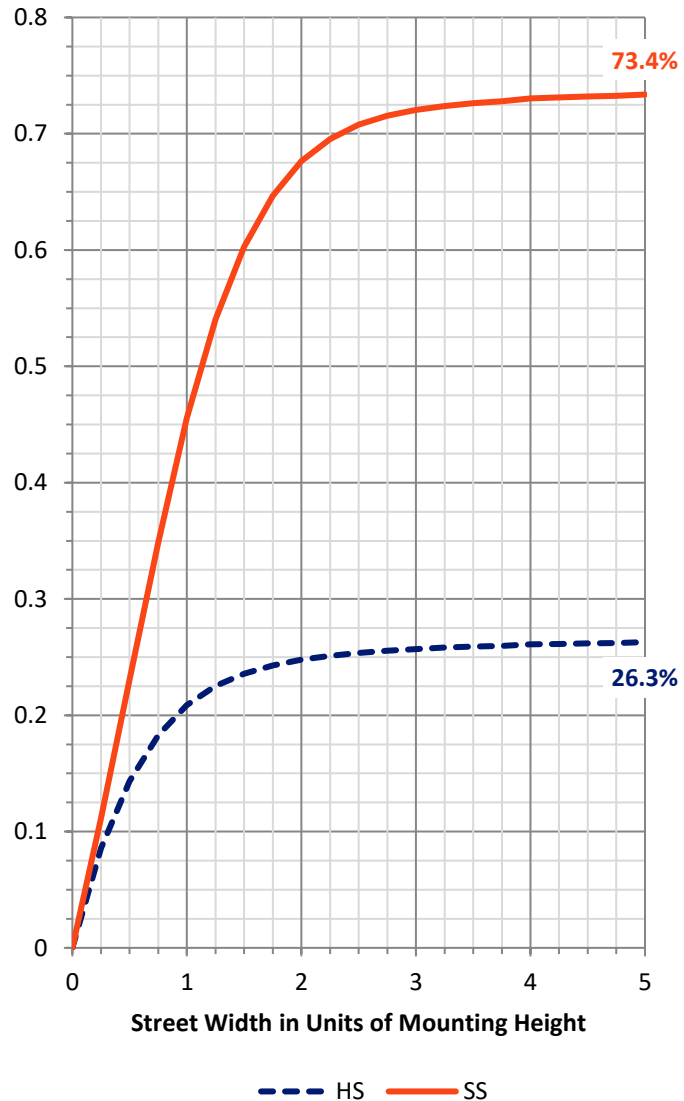
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9033.9	0.0	9033.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	25059.1	0.0	25059.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	34093.0	0.0	34093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.2	1.7
10°-20°	1773.5	5.2
20°-30°	2973.0	8.7
30°-40°	4451.5	13.1
40°-50°	5951.7	17.5
50°-60°	6948.8	20.4
60°-70°	6909.5	20.3
70°-80°	4090.5	12.0
80°-90°	403.2	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°	34093.0	100.0
0°-180°	34093.0	100.0

Coefficient of Utilization



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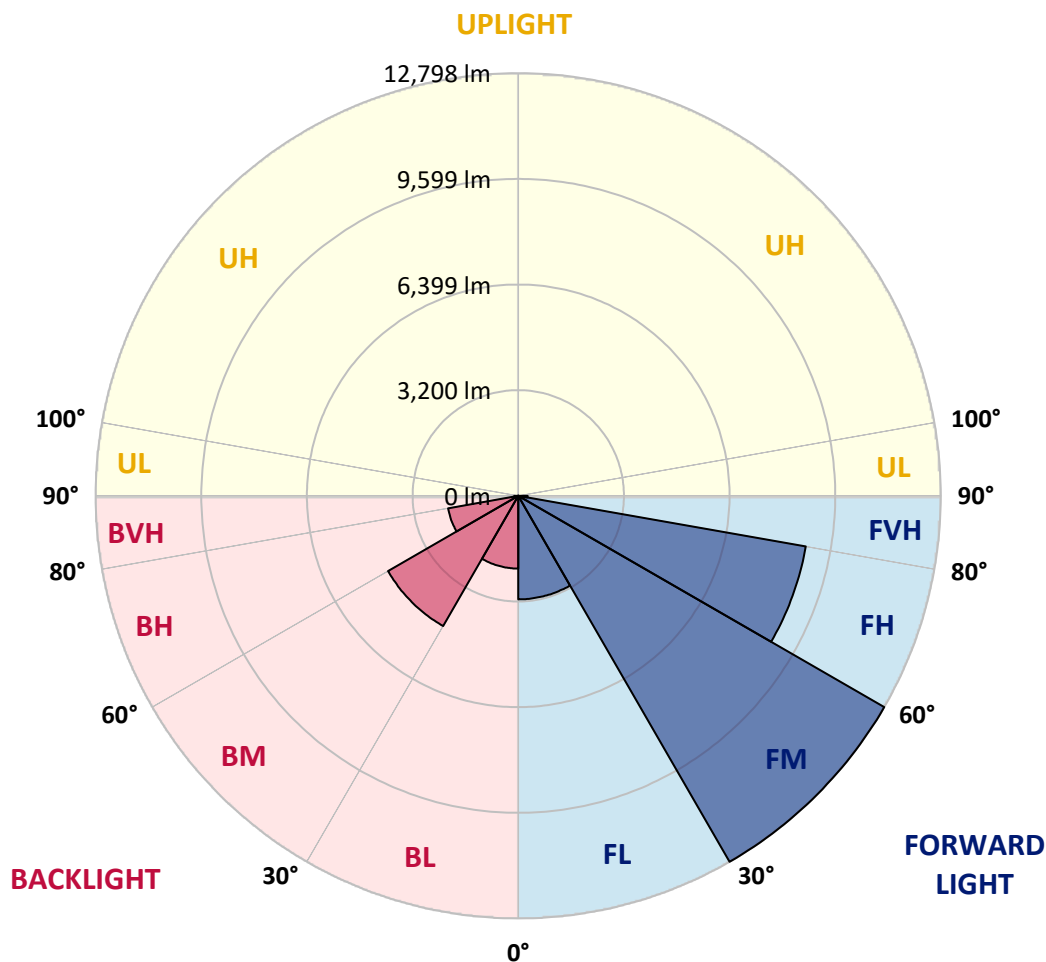
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3135.7	9.2			
FM	(30°-60°)	12798.0	37.5			
FH	(60°-80°)	8842.1	25.9			G4/12000
FVH	(80°-90°)	283.3	0.8			G3/500
BL	(0°-30°)	2202.1	6.5	B3/2500		
BM	(30°-60°)	4554.0	13.4	B3/5000		
BH	(60°-80°)	2158.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	119.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0
2.5°	6379.2	6369.2	6364.1	6344.0	6298.8	6318.9	6273.7	6243.5	6238.5	6168.1	6127.9
5°	6640.6	6635.6	6625.5	6595.4	6525.0	6535.1	6459.7	6404.4	6389.3	6278.7	6193.2
7.5°	6861.8	6851.8	6846.7	6806.5	6731.1	6726.1	6635.6	6555.2	6530.0	6379.2	6248.5
10°	7032.7	7017.6	7027.7	6987.5	6907.1	6892.0	6776.4	6670.8	6645.7	6454.6	6273.7
12.5°	7178.5	7168.5	7183.5	7148.3	7083.0	7067.9	6952.3	6816.6	6786.4	6565.2	6329.0
15°	7339.4	7304.2	7334.3	7319.3	7274.0	7269.0	7163.4	7012.6	6972.4	6706.0	6414.4
17.5°	7424.8	7404.7	7439.9	7444.9	7424.8	7460.0	7359.5	7178.5	7143.3	6836.7	6489.8
20°	7485.2	7455.0	7495.2	7525.4	7540.5	7610.8	7530.4	7354.5	7314.2	6962.4	6560.2
22.5°	7691.3	7625.9	7630.9	7651.0	7661.1	7761.6	7711.4	7540.5	7500.2	7118.2	6645.7
25°	8209.0	8078.3	7992.9	7932.6	7862.2	7947.6	7917.5	7751.6	7716.4	7304.2	6751.2
27.5°	9013.4	8847.5	8676.5	8500.6	8224.1	8188.9	8138.7	7987.9	7947.6	7490.2	6856.8
30°	9928.3	9762.4	9561.3	9279.8	8762.0	8490.6	8374.9	8209.0	8163.8	7656.1	6957.3
32.5°	10838.1	10692.4	10491.3	10149.5	9410.5	8857.5	8611.2	8440.3	8395.0	7837.0	7078.0
35°	11546.9	11456.5	11325.8	10898.5	10053.9	9289.8	8953.0	8746.9	8696.7	8123.6	7299.2
37.5°	12120.0	12054.7	11944.1	11496.7	10521.4	9722.2	9345.1	9108.9	9053.6	8435.3	7535.4
40°	12964.6	12793.6	12703.2	12054.7	10928.6	10114.3	9787.5	9541.2	9480.9	8767.0	7726.5
42.5°	13683.4	13557.7	13447.1	12552.3	11315.7	10451.1	10204.7	9978.5	9898.1	9093.8	7932.6
45°	13804.1	13854.3	13799.0	12798.7	11929.0	10782.8	10627.0	10481.2	10405.8	9536.2	8244.2
47.5°	13809.1	13809.1	13482.3	12939.4	12688.1	11154.8	11079.4	11129.7	11049.3	10099.2	8616.2
50°	13447.1	13512.5	13341.6	12974.6	12889.1	11526.8	11632.4	11903.9	11823.4	10697.4	9018.4
52.5°	12698.1	12914.3	12909.3	12919.3	12597.6	11843.5	12215.5	12833.9	12698.1	11371.0	9445.7
55°	11376.0	11808.4	12195.4	12527.2	12346.2	12034.6	12929.4	13824.2	13683.4	12125.0	9878.0
57.5°	10245.0	10521.4	11004.0	11944.1	12049.6	12200.5	13598.0	14859.7	14734.0	12959.5	10330.4
60°	8953.0	9335.1	9817.7	11154.8	11687.7	12416.6	14331.9	15870.1	15749.5	13804.1	10767.8
62.5°	6967.4	7460.0	8425.2	9943.3	11159.9	12552.3	14910.0	16759.9	16704.6	14603.3	11159.9
65°	4856.1	5293.4	6645.7	8455.4	10320.4	12492.0	15372.5	17554.2	17503.9	15256.9	11436.4
67.5°	2835.2	3342.9	4871.1	6806.5	8837.4	12074.8	15523.3	18021.7	18021.7	15654.0	11511.8
70°	1618.7	1855.0	3212.2	4961.6	6776.4	10923.6	15101.0	18016.7	18102.1	15563.5	11200.1
72.5°	1131.1	1236.6	2161.6	3337.9	4594.6	8837.4	13995.1	17147.0	17262.6	14708.9	10134.4
75°	879.7	955.1	1523.2	2277.2	2895.5	6002.2	11577.1	14457.6	14764.2	12537.3	8194.0
77.5°	668.6	723.9	889.8	1422.6	1855.0	3448.5	7641.0	9480.9	9501.0	7676.2	4393.6
80°	487.6	542.9	593.2	869.7	985.3	1613.7	2885.5	3961.3	3850.7	3714.9	2377.8
82.5°	291.6	346.9	361.9	472.5	482.6	688.7	1010.4	1276.9	1226.6	1633.8	1116.0
85°	125.7	175.9	186.0	216.2	206.1	281.5	402.2	336.8	301.6	346.9	241.3
87.5°	30.2	50.3	50.3	55.3	45.2	70.4	75.4	55.3	50.3	60.3	60.3
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°	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0	6153.0
2.5°	6117.8	6102.7	6107.8	6022.3	5997.2	5972.0	5957.0	5946.9	5936.9	5951.9	5967.0
5°	6163.1	6127.9	6087.7	5962.0	5911.7	5856.4	5816.2	5781.0	5765.9	5765.9	5781.0
7.5°	6198.3	6137.9	6052.5	5886.6	5796.1	5720.7	5655.3	5610.1	5585.0	5585.0	5600.0
10°	6203.3	6117.8	5982.1	5781.0	5660.4	5549.8	5474.4	5424.1	5388.9	5388.9	5399.0
12.5°	6233.4	6117.8	5941.9	5700.6	5549.8	5414.0	5323.6	5248.2	5233.1	5233.1	5243.1
15°	6283.7	6143.0	5916.7	5630.2	5449.2	5293.4	5192.9	5112.4	5082.3	5102.4	5107.4
17.5°	6329.0	6158.0	5871.5	5539.7	5323.6	5152.6	5042.0	4971.7	4931.5	4976.7	4976.7
20°	6359.1	6158.0	5806.1	5424.1	5187.8	4996.8	4891.2	4805.8	4775.6	4830.9	4835.9
22.5°	6404.4	6153.0	5735.8	5308.5	5042.0	4841.0	4735.4	4670.1	4655.0	4715.3	4735.4
25°	6454.6	6163.1	5660.4	5177.8	4881.2	4685.1	4604.7	4574.5	4584.6	4660.0	4685.1
27.5°	6509.9	6183.2	5585.0	5032.0	4705.2	4529.3	4484.1	4499.1	4539.4	4634.9	4665.0
30°	6560.2	6188.2	5479.4	4861.1	4504.2	4338.3	4358.4	4423.7	4484.1	4579.6	4614.8
32.5°	6625.5	6193.2	5368.8	4675.1	4288.0	4167.4	4257.8	4363.4	4423.7	4514.2	4554.4
35°	6786.4	6278.7	5283.3	4494.1	4086.9	4021.6	4172.4	4308.1	4343.3	4423.7	4458.9
37.5°	6972.4	6419.4	5238.1	4308.1	3890.9	3875.8	4066.8	4202.5	4212.6	4262.9	4298.1
40°	7088.0	6479.8	5187.8	4152.3	3714.9	3725.0	3921.0	4026.6	4006.5	4041.7	4066.8
42.5°	7203.6	6499.9	5082.3	4021.6	3549.0	3559.1	3709.9	3785.3	3795.4	3870.8	3906.0
45°	7399.7	6555.2	4966.6	3900.9	3398.2	3363.0	3453.5	3554.1	3684.8	3830.6	3870.8
47.5°	7661.1	6670.8	4846.0	3755.1	3252.4	3136.8	3172.0	3348.0	3483.7	3619.4	3644.6
50°	7927.5	6786.4	4735.4	3579.2	3106.7	2895.5	2910.6	3071.5	3182.1	3287.6	3302.7
52.5°	8188.9	6886.9	4639.9	3413.3	2940.8	2609.0	2669.3	2835.2	2910.6	2960.9	2976.0
55°	8450.3	6972.4	4554.4	3272.6	2749.8	2382.8	2438.1	2593.9	2669.3	2694.5	2704.5
57.5°	8721.8	7072.9	4489.1	3151.9	2533.6	2181.7	2216.9	2327.5	2397.9	2428.0	2418.0
60°	8948.0	7158.4	4453.9	3026.2	2317.4	1995.7	1985.7	2086.2	2186.7	2216.9	2206.8
62.5°	9123.9	7213.7	4398.6	2865.4	2126.4	1809.7	1759.4	1890.1	1995.7	2015.8	2030.9
65°	9219.5	7218.7	4262.9	2659.3	1930.4	1608.6	1573.4	1704.1	1769.5	1789.6	1789.6
67.5°	9204.4	7138.3	3996.4	2382.8	1749.4	1427.7	1397.5	1477.9	1573.4	1588.5	1573.4
70°	8892.7	6806.5	3569.1	2091.2	1533.2	1266.8	1211.5	1291.9	1382.4	1327.1	1302.0
72.5°	8008.0	5946.9	2940.8	1769.5	1291.9	1065.7	1040.6	1121.0	1126.0	1136.1	1111.0
75°	6318.9	4428.8	2201.8	1377.4	1045.6	894.8	889.8	874.7	894.8	935.0	904.9
77.5°	3317.8	2211.9	1191.4	844.5	759.1	718.9	683.7	678.6	739.0	764.1	733.9
80°	1799.7	1241.7	683.7	507.7	462.5	467.5	512.8	502.7	568.0	583.1	558.0
82.5°	784.2	588.2	336.8	306.6	306.6	301.6	316.7	351.9	422.3	422.3	336.8
85°	170.9	145.8	130.7	150.8	170.9	170.9	170.9	170.9	120.6	65.4	45.2
87.5°	55.3	55.3	55.3	60.3	65.4	65.4	55.3	40.2	25.1	5.0	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)