

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: P841051

Luminaire Tested: **ARCH4-120-750-U-T3**

Issue Date: 5/27/2024

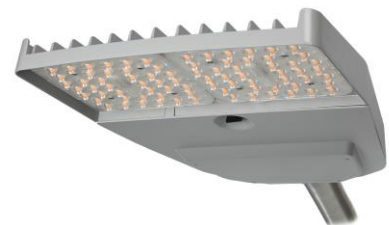
Test Information

Test Method: LM-79-08
Report Number: P841051
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: ARCH4-120-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21594 lumens
Efficiency: N/A
Efficacy: 177.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122
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



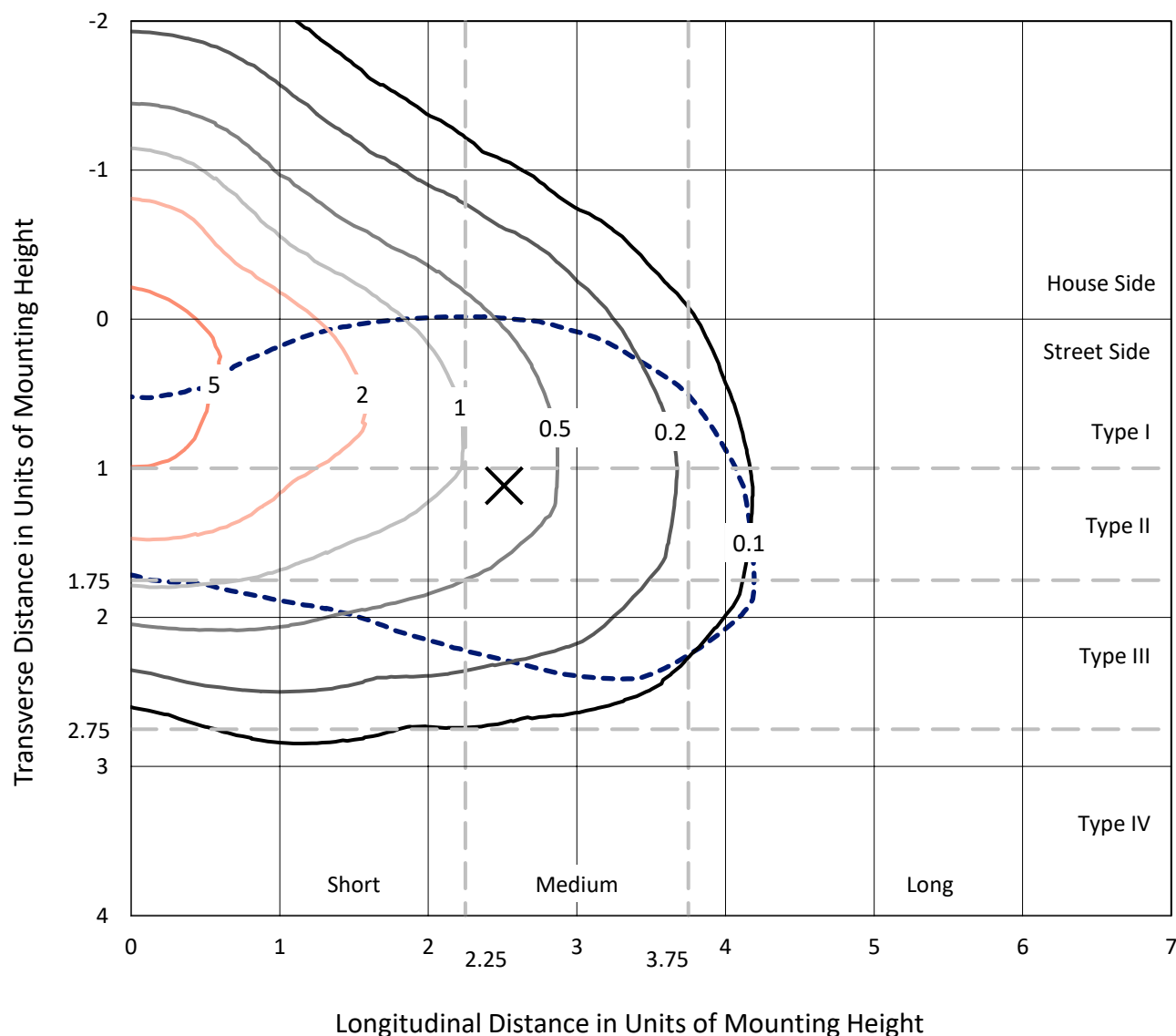
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

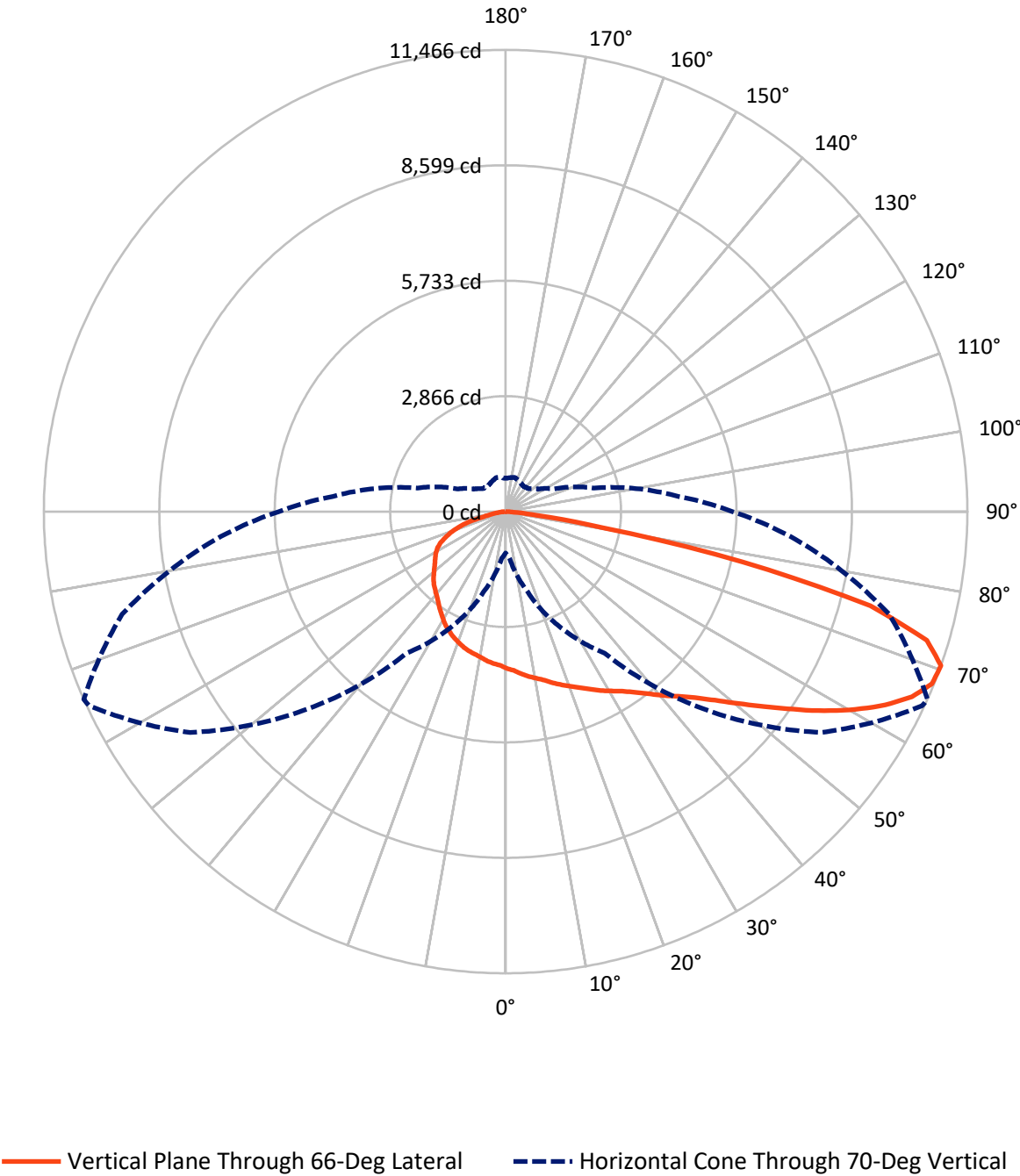


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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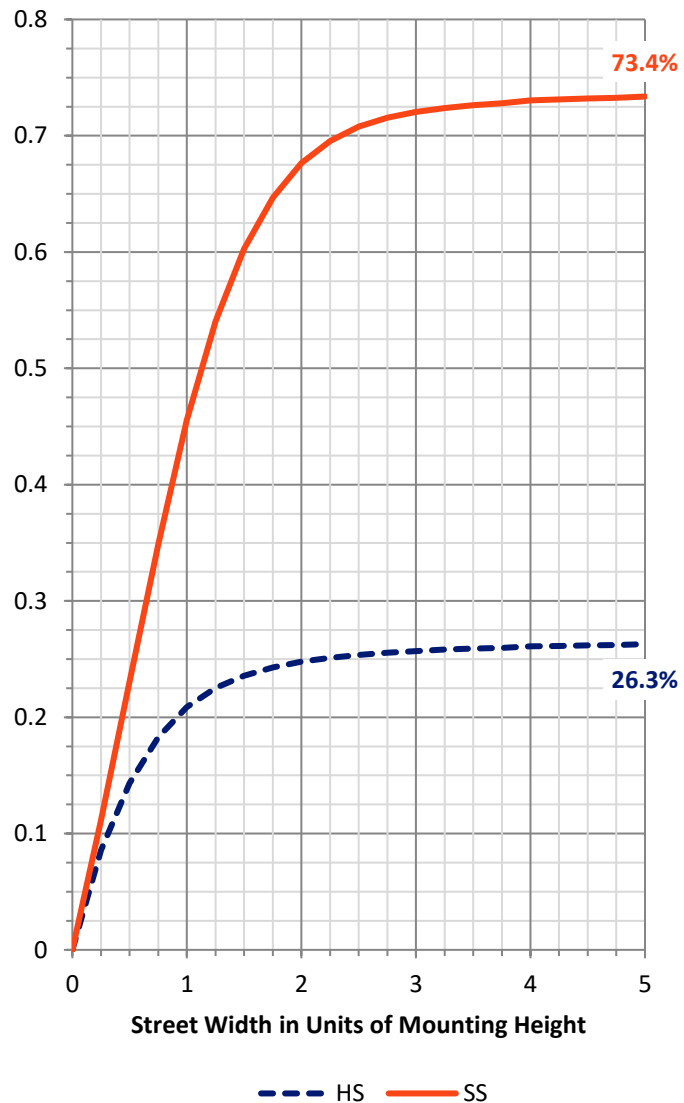
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5721.9	0.0	5721.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15872.1	0.0	15872.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	21594.0	0.0	21594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.5	1.7
10°-20°	1123.3	5.2
20°-30°	1883.0	8.7
30°-40°	2819.5	13.1
40°-50°	3769.7	17.5
50°-60°	4401.3	20.4
60°-70°	4376.4	20.3
70°-80°	2590.9	12.0
80°-90°	255.4	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°	21594.0	100.0
0°-180°	21594.0	100.0

Coefficient of Utilization



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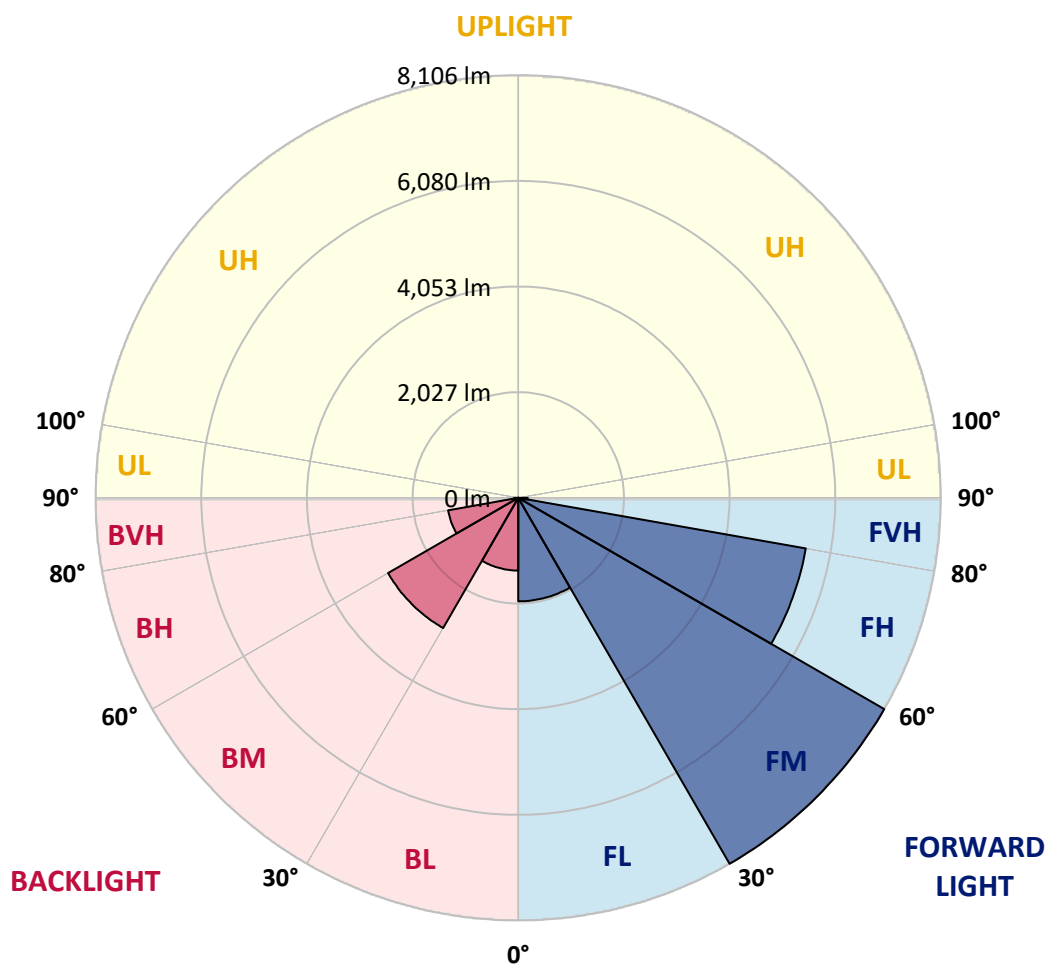
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1986.1	9.2			
FM	(30°-60°)	8106.1	37.5			
FH	(60°-80°)	5600.5	25.9			G3/7500
FVH	(80°-90°)	179.5	0.8			G2/225
BL	(0°-30°)	1394.8	6.5	B3/2500		
BM	(30°-60°)	2884.4	13.4	B3/5000		
BH	(60°-80°)	1366.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	75.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2
2.5°	4040.5	4034.1	4031.0	4018.2	3989.6	4002.3	3973.6	3954.5	3951.4	3906.8	3881.3
5°	4206.1	4202.9	4196.5	4177.4	4132.8	4139.2	4091.4	4056.4	4046.9	3976.8	3922.7
7.5°	4346.2	4339.8	4336.6	4311.1	4263.4	4260.2	4202.9	4151.9	4136.0	4040.5	3957.7
10°	4454.4	4444.9	4451.2	4425.8	4374.8	4365.3	4292.0	4225.2	4209.3	4088.3	3973.6
12.5°	4546.8	4540.4	4549.9	4527.7	4486.3	4476.7	4403.5	4317.5	4298.4	4158.3	4008.7
15°	4648.7	4626.4	4645.5	4635.9	4607.3	4604.1	4537.2	4441.7	4416.2	4247.5	4062.8
17.5°	4702.8	4690.0	4712.3	4715.5	4702.8	4725.1	4661.4	4546.8	4524.5	4330.3	4110.6
20°	4741.0	4721.9	4747.4	4766.5	4776.0	4820.6	4769.6	4658.2	4632.7	4409.9	4155.1
22.5°	4871.5	4830.1	4833.3	4846.1	4852.4	4916.1	4884.3	4776.0	4750.5	4508.6	4209.3
25°	5199.5	5116.7	5062.6	5024.4	4979.8	5033.9	5014.8	4909.7	4887.5	4626.4	4276.1
27.5°	5708.9	5603.9	5495.6	5384.2	5209.0	5186.7	5154.9	5059.4	5033.9	4744.2	4343.0
30°	6288.4	6183.3	6056.0	5877.7	5549.7	5377.8	5304.6	5199.5	5170.8	4849.2	4406.7
32.5°	6864.7	6772.4	6645.0	6428.5	5960.5	5610.2	5454.2	5345.9	5317.3	4963.9	4483.1
35°	7313.7	7256.4	7173.6	6902.9	6368.0	5884.0	5670.7	5540.2	5508.3	5145.4	4623.2
37.5°	7676.6	7635.3	7565.2	7281.8	6664.1	6157.9	5919.1	5769.4	5734.4	5342.8	4772.8
40°	8211.6	8103.3	8046.0	7635.3	6922.0	6406.2	6199.3	6043.2	6005.0	5552.9	4893.8
42.5°	8666.9	8587.3	8517.2	7950.5	7167.2	6619.6	6463.5	6320.3	6269.3	5759.9	5024.4
45°	8743.3	8775.1	8740.1	8106.5	7555.6	6829.7	6731.0	6638.7	6590.9	6040.1	5221.8
47.5°	8746.5	8746.5	8539.5	8195.6	8036.4	7065.3	7017.6	7049.4	6998.4	6396.7	5457.4
50°	8517.2	8558.6	8450.4	8217.9	8163.8	7300.9	7367.8	7539.7	7488.8	6775.6	5712.1
52.5°	8042.8	8179.7	8176.5	8182.9	7979.1	7501.5	7737.1	8128.8	8042.8	7202.2	5982.8
55°	7205.4	7479.2	7724.4	7934.5	7819.9	7622.5	8189.3	8756.0	8666.9	7679.8	6256.6
57.5°	6489.0	6664.1	6969.8	7565.2	7632.1	7727.6	8612.7	9411.9	9332.3	8208.4	6543.1
60°	5670.7	5912.7	6218.4	7065.3	7402.8	7864.5	9077.6	10051.9	9975.5	8743.3	6820.1
62.5°	4413.0	4725.1	5336.4	6298.0	7068.5	7950.5	9443.8	10615.5	10580.5	9249.5	7068.5
65°	3075.8	3352.8	4209.3	5355.5	6536.8	7912.3	9736.7	11118.6	11086.7	9663.5	7243.6
67.5°	1795.8	2117.4	3085.3	4311.1	5597.5	7648.0	9832.2	11414.7	11414.7	9915.0	7291.4
70°	1025.3	1174.9	2034.6	3142.6	4292.0	6918.8	9564.8	11411.5	11465.6	9857.7	7094.0
72.5°	716.4	783.3	1369.1	2114.2	2910.2	5597.5	8864.3	10860.6	10933.9	9316.4	6419.0
75°	557.2	605.0	964.8	1442.4	1834.0	3801.7	7332.8	9157.2	9351.4	7940.9	5189.9
77.5°	423.5	458.5	563.6	901.1	1174.9	2184.2	4839.7	6005.0	6017.8	4862.0	2782.8
80°	308.8	343.9	375.7	550.8	624.1	1022.1	1827.6	2509.0	2438.9	2353.0	1506.0
82.5°	184.7	219.7	229.2	299.3	305.7	436.2	640.0	808.7	776.9	1034.8	706.8
85°	79.6	111.4	117.8	136.9	130.5	178.3	254.7	213.3	191.0	219.7	152.8
87.5°	19.1	31.8	31.8	35.0	28.7	44.6	47.8	35.0	31.8	38.2	38.2
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°	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2
2.5°	3874.9	3865.4	3868.6	3814.4	3798.5	3782.6	3773.0	3766.7	3760.3	3769.9	3779.4
5°	3903.6	3881.3	3855.8	3776.2	3744.4	3709.4	3683.9	3661.6	3652.1	3652.1	3661.6
7.5°	3925.9	3887.7	3833.5	3728.5	3671.2	3623.4	3582.0	3553.4	3537.4	3537.4	3547.0
10°	3929.1	3874.9	3789.0	3661.6	3585.2	3515.1	3467.4	3435.5	3413.3	3413.3	3419.6
12.5°	3948.2	3874.9	3763.5	3610.7	3515.1	3429.2	3371.9	3324.1	3314.6	3314.6	3320.9
15°	3980.0	3890.9	3747.6	3566.1	3451.5	3352.8	3289.1	3238.1	3219.0	3231.8	3235.0
17.5°	4008.7	3900.4	3718.9	3508.8	3371.9	3263.6	3193.6	3149.0	3123.5	3152.2	3152.2
20°	4027.8	3900.4	3677.5	3435.5	3285.9	3164.9	3098.0	3043.9	3024.8	3059.8	3063.0
22.5°	4056.4	3897.2	3633.0	3362.3	3193.6	3066.2	2999.3	2957.9	2948.4	2986.6	2999.3
25°	4088.3	3903.6	3585.2	3279.5	3091.7	2967.5	2916.6	2897.4	2903.8	2951.6	2967.5
27.5°	4123.3	3916.3	3537.4	3187.2	2980.2	2868.8	2840.1	2849.7	2875.2	2935.7	2954.8
30°	4155.1	3919.5	3470.6	3078.9	2852.9	2747.8	2760.5	2801.9	2840.1	2900.6	2922.9
32.5°	4196.5	3922.7	3400.5	2961.1	2716.0	2639.5	2696.9	2763.7	2801.9	2859.2	2884.7
35°	4298.4	3976.8	3346.4	2846.5	2588.6	2547.2	2642.7	2728.7	2751.0	2801.9	2824.2
37.5°	4416.2	4066.0	3317.7	2728.7	2464.4	2454.9	2575.9	2661.8	2668.2	2700.0	2722.3
40°	4489.5	4104.2	3285.9	2630.0	2353.0	2359.3	2483.5	2550.4	2537.7	2559.9	2575.9
42.5°	4562.7	4116.9	3219.0	2547.2	2247.9	2254.3	2349.8	2397.6	2403.9	2451.7	2474.0
45°	4686.9	4151.9	3145.8	2470.8	2152.4	2130.1	2187.4	2251.1	2333.9	2426.2	2451.7
47.5°	4852.4	4225.2	3069.4	2378.5	2060.1	1986.8	2009.1	2120.5	2206.5	2292.5	2308.4
50°	5021.2	4298.4	2999.3	2267.0	1967.7	1834.0	1843.5	1945.4	2015.5	2082.3	2091.9
52.5°	5186.7	4362.1	2938.8	2161.9	1862.6	1652.5	1690.7	1795.8	1843.5	1875.4	1884.9
55°	5352.3	4416.2	2884.7	2072.8	1741.7	1509.2	1544.2	1642.9	1690.7	1706.6	1713.0
57.5°	5524.3	4479.9	2843.3	1996.4	1604.7	1381.9	1404.1	1474.2	1518.8	1537.9	1531.5
60°	5667.5	4534.0	2821.0	1916.8	1467.8	1264.1	1257.7	1321.4	1385.0	1404.1	1397.8
62.5°	5779.0	4569.1	2786.0	1814.9	1346.8	1146.2	1114.4	1197.2	1264.1	1276.8	1286.3
65°	5839.5	4572.2	2700.0	1684.3	1222.7	1018.9	996.6	1079.4	1120.8	1133.5	1133.5
67.5°	5829.9	4521.3	2531.3	1509.2	1108.0	904.3	885.2	936.1	996.6	1006.1	996.6
70°	5632.5	4311.1	2260.6	1324.5	971.1	802.4	767.3	818.3	875.6	840.6	824.7
72.5°	5072.1	3766.7	1862.6	1120.8	818.3	675.0	659.1	710.0	713.2	719.6	703.7
75°	4002.3	2805.1	1394.6	872.4	662.3	566.8	563.6	554.0	566.8	592.2	573.1
77.5°	2101.4	1401.0	754.6	534.9	480.8	455.3	433.0	429.8	468.0	484.0	464.9
80°	1139.9	786.4	433.0	321.6	292.9	296.1	324.8	318.4	359.8	369.3	353.4
82.5°	496.7	372.5	213.3	194.2	194.2	191.0	200.6	222.9	267.5	267.5	213.3
85°	108.3	92.3	82.8	95.5	108.3	108.3	108.3	108.3	76.4	41.4	28.7
87.5°	35.0	35.0	35.0	38.2	41.4	41.4	35.0	25.5	15.9	3.2	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)