

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: P841375

Luminaire Tested: **ARCH4-170-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841375
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: ARCH4-170-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26369 lumens
Efficiency: N/A
Efficacy: 155.3 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): 169.8
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

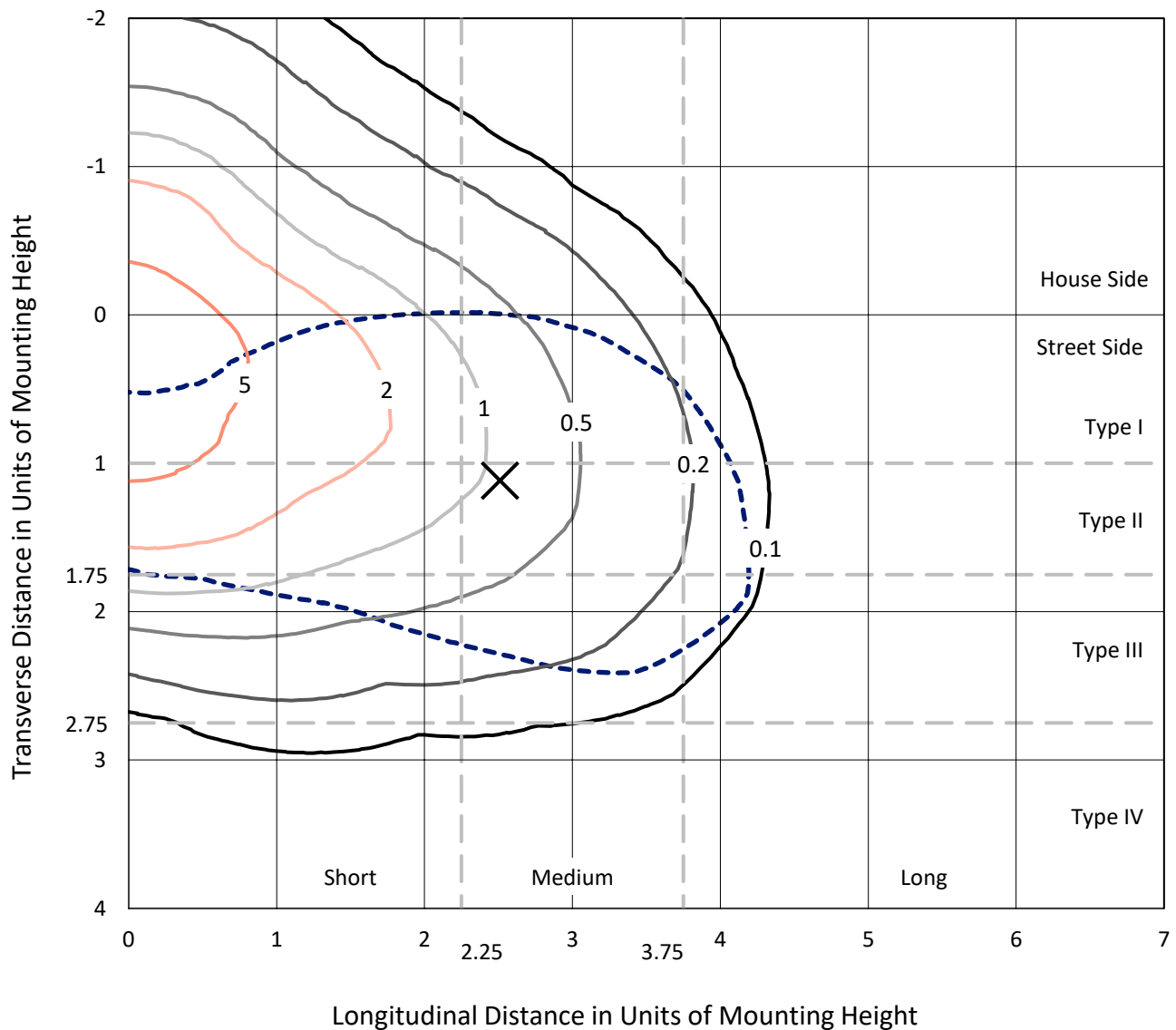


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Iso-Footcandle Lines of Horizontal Illumination

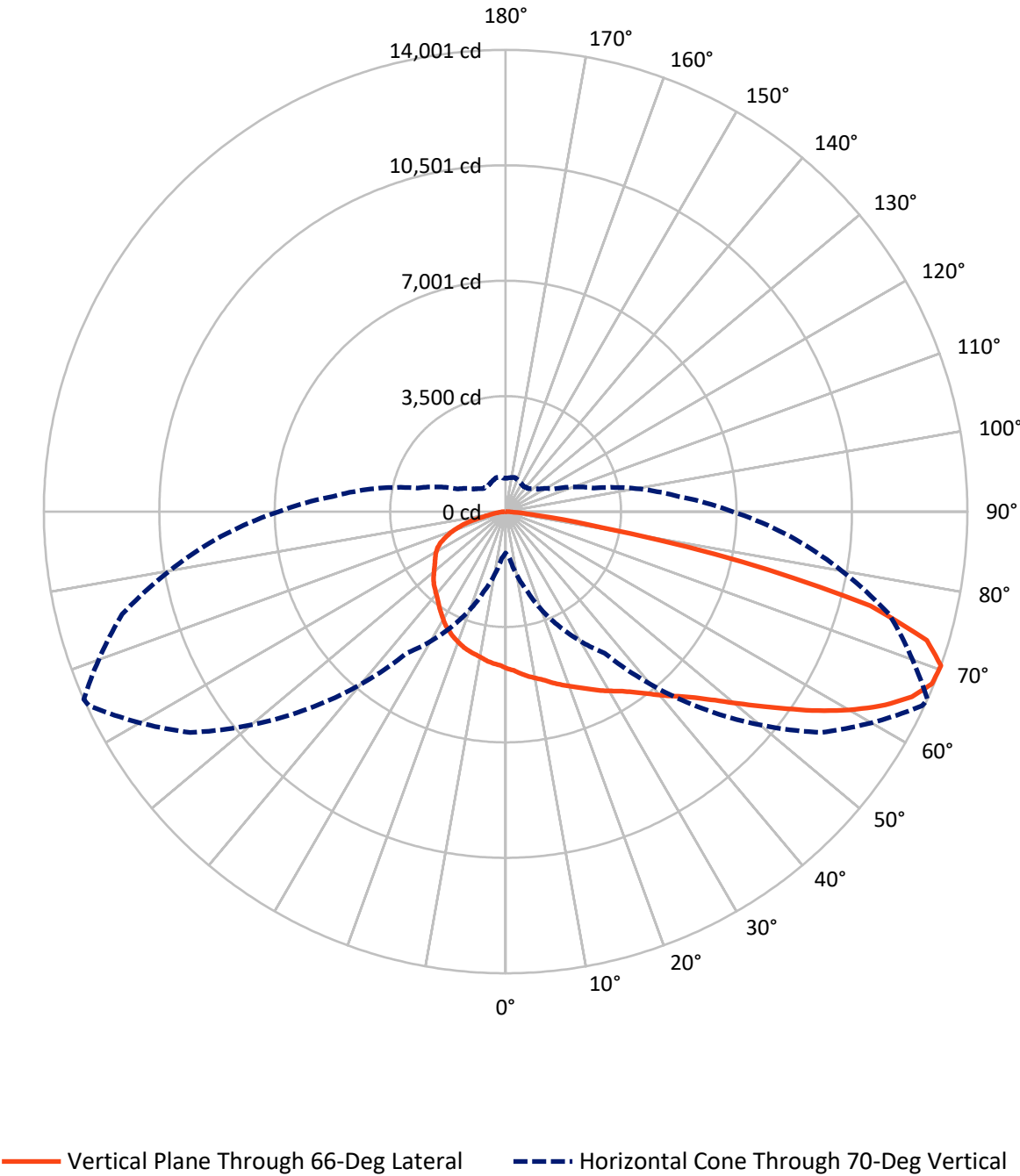
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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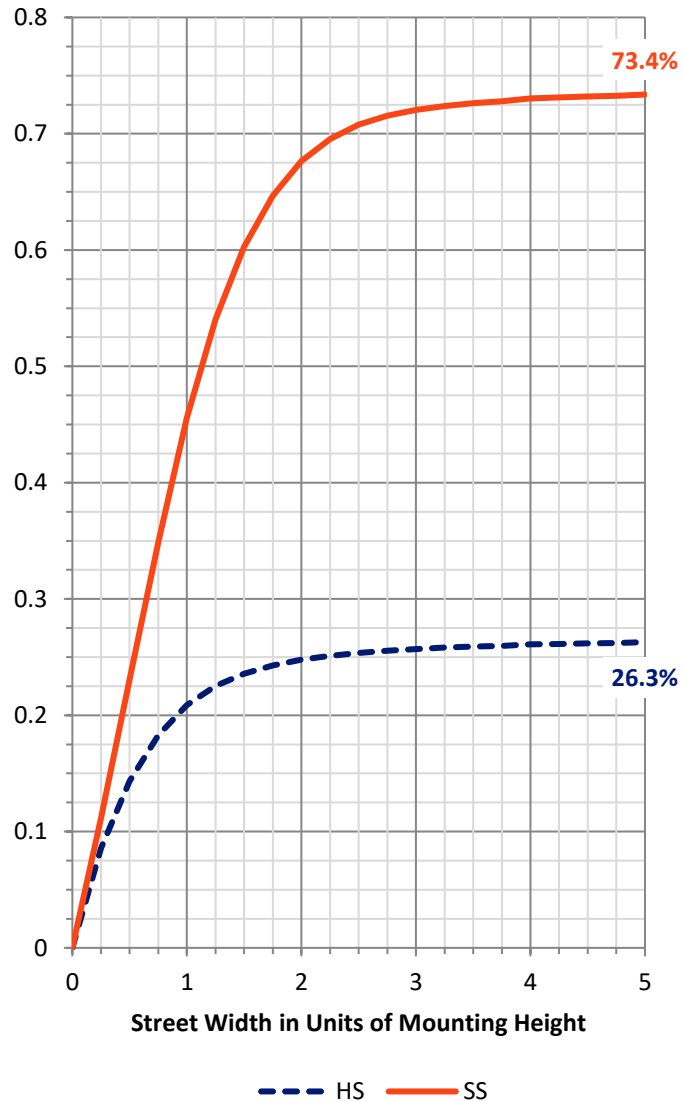
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6987.2	0.0	6987.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	19381.8	0.0	19381.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	26369.0	0.0	26369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	1.7
10°-20°	1371.7	5.2
20°-30°	2299.4	8.7
30°-40°	3443.0	13.1
40°-50°	4603.3	17.5
50°-60°	5374.5	20.4
60°-70°	5344.1	20.3
70°-80°	3163.8	12.0
80°-90°	311.8	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°	26369.0	100.0
0°-180°	26369.0	100.0

Coefficient of Utilization



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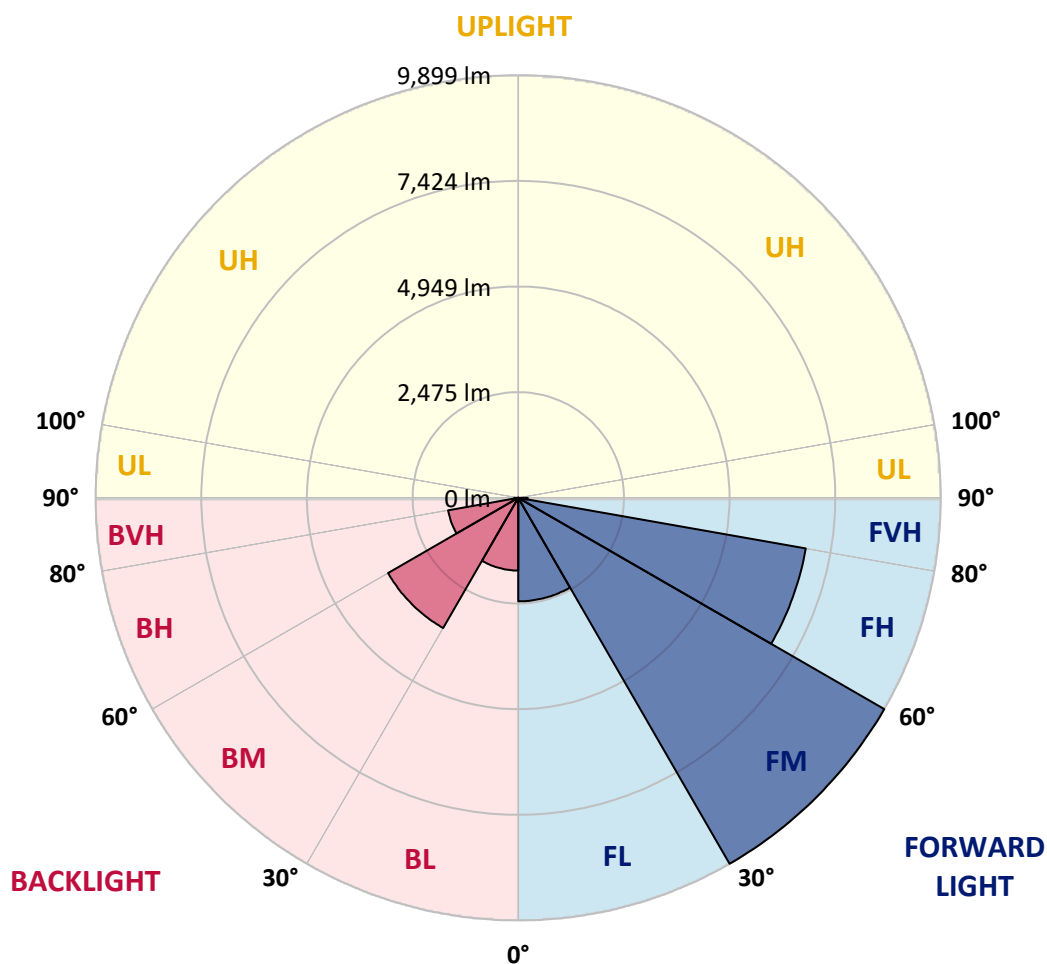
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2425.2	9.2			
FM	(30°-60°)	9898.6	37.5			
FH	(60°-80°)	6838.9	25.9			G3/7500
FVH	(80°-90°)	219.2	0.8			G2/225
BL	(0°-30°)	1703.2	6.5	B3/2500		
BM	(30°-60°)	3522.3	13.4	B3/5000		
BH	(60°-80°)	1669.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	92.7	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°	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0
2.5°	4934.0	4926.2	4922.3	4906.8	4871.8	4887.3	4852.3	4829.0	4825.1	4770.7	4739.6
5°	5136.1	5132.3	5124.5	5101.2	5046.7	5054.5	4996.2	4953.4	4941.7	4856.2	4790.1
7.5°	5307.2	5299.4	5295.6	5264.5	5206.1	5202.2	5132.3	5070.1	5050.6	4934.0	4832.9
10°	5439.4	5427.8	5435.5	5404.4	5342.2	5330.6	5241.1	5159.5	5140.0	4992.3	4852.3
12.5°	5552.2	5544.4	5556.1	5528.8	5478.3	5466.6	5377.2	5272.2	5248.9	5077.8	4895.1
15°	5676.6	5649.4	5672.7	5661.0	5626.0	5622.2	5540.5	5423.9	5392.8	5186.7	4961.2
17.5°	5742.7	5727.1	5754.4	5758.2	5742.7	5769.9	5692.1	5552.2	5525.0	5287.8	5019.5
20°	5789.3	5766.0	5797.1	5820.4	5832.1	5886.5	5824.3	5688.3	5657.1	5385.0	5073.9
22.5°	5948.8	5898.2	5902.1	5917.7	5925.4	6003.2	5964.3	5832.1	5801.0	5505.5	5140.0
25°	6349.2	6248.1	6182.0	6135.4	6080.9	6147.0	6123.7	5995.4	5968.2	5649.4	5221.7
27.5°	6971.3	6843.0	6710.8	6574.7	6360.9	6333.7	6294.8	6178.2	6147.0	5793.2	5303.3
30°	7678.9	7550.6	7395.1	7177.4	6776.9	6567.0	6477.5	6349.2	6314.2	5921.5	5381.1
32.5°	8382.7	8269.9	8114.4	7850.0	7278.5	6850.8	6660.3	6528.1	6493.1	6061.5	5474.4
35°	8930.9	8860.9	8759.8	8429.3	7776.2	7185.2	6924.7	6765.3	6726.4	6283.1	5645.5
37.5°	9374.1	9323.6	9238.1	8892.0	8137.7	7519.5	7227.9	7045.2	7002.4	6524.2	5828.2
40°	10027.3	9895.2	9825.2	9323.6	8452.7	7822.8	7570.1	7379.6	7332.9	6780.8	5976.0
42.5°	10583.3	10486.1	10400.6	9708.5	8752.1	8083.3	7892.8	7717.8	7655.6	7033.5	6135.4
45°	10676.7	10715.5	10672.8	9899.0	9226.4	8339.9	8219.4	8106.6	8048.3	7375.7	6376.4
47.5°	10680.5	10680.5	10427.8	10007.9	9813.5	8627.6	8569.3	8608.2	8546.0	7811.1	6664.2
50°	10400.6	10451.1	10319.0	10035.1	9969.0	8915.4	8997.0	9207.0	9144.8	8273.8	6975.2
52.5°	9821.3	9988.5	9984.6	9992.4	9743.5	9160.3	9448.0	9926.3	9821.3	8794.8	7305.7
55°	8798.7	9133.1	9432.5	9689.1	9549.1	9308.1	10000.1	10692.2	10583.3	9378.0	7640.1
57.5°	7923.9	8137.7	8511.0	9238.1	9319.7	9436.4	10517.2	11493.2	11395.9	10023.5	7990.0
60°	6924.7	7220.2	7593.4	8627.6	9039.8	9603.5	11084.9	12274.7	12181.3	10676.7	8328.3
62.5°	5388.9	5769.9	6516.4	7690.6	8631.5	9708.5	11532.0	12962.8	12920.1	11294.9	8631.5
65°	3755.9	4094.1	5140.0	6539.7	7982.2	9661.9	11889.7	13577.2	13538.3	11800.3	8845.4
67.5°	2192.9	2585.6	3767.5	5264.5	6835.2	9339.2	12006.4	13938.7	13938.7	12107.5	8903.7
70°	1252.0	1434.7	2484.5	3837.5	5241.1	8448.8	11679.8	13934.9	14001.0	12037.5	8662.6
72.5°	874.8	956.5	1671.9	2581.7	3553.7	6835.2	10824.4	13262.2	13351.7	11376.5	7838.4
75°	680.4	738.7	1178.1	1761.3	2239.5	4642.4	8954.2	11182.1	11419.3	9696.9	6337.6
77.5°	517.1	559.9	688.2	1100.3	1434.7	2667.2	5909.9	7332.9	7348.5	5937.1	3398.2
80°	377.1	419.9	458.8	672.6	762.1	1248.1	2231.8	3063.8	2978.3	2873.3	1839.1
82.5°	225.5	268.3	279.9	365.5	373.3	532.7	781.5	987.6	948.7	1263.6	863.2
85°	97.2	136.1	143.9	167.2	159.4	217.7	311.0	260.5	233.3	268.3	186.6
87.5°	23.3	38.9	38.9	42.8	35.0	54.4	58.3	42.8	38.9	46.7	46.7
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°	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0
2.5°	4731.8	4720.1	4724.0	4657.9	4638.5	4619.0	4607.4	4599.6	4591.8	4603.5	4615.1
5°	4766.8	4739.6	4708.5	4611.3	4572.4	4529.6	4498.5	4471.3	4459.6	4459.6	4471.3
7.5°	4794.0	4747.3	4681.2	4552.9	4483.0	4424.6	4374.1	4339.1	4319.7	4319.7	4331.3
10°	4797.9	4731.8	4626.8	4471.3	4378.0	4292.4	4234.1	4195.2	4168.0	4168.0	4175.8
12.5°	4821.2	4731.8	4595.7	4409.1	4292.4	4187.5	4117.5	4059.2	4047.5	4047.5	4055.3
15°	4860.1	4751.2	4576.3	4354.6	4214.7	4094.1	4016.4	3954.2	3930.8	3946.4	3950.3
17.5°	4895.1	4762.9	4541.3	4284.7	4117.5	3985.3	3899.7	3845.3	3814.2	3849.2	3849.2
20°	4918.4	4762.9	4490.7	4195.2	4012.5	3864.7	3783.1	3717.0	3693.7	3736.4	3740.3
22.5°	4953.4	4759.0	4436.3	4105.8	3899.7	3744.2	3662.6	3612.0	3600.4	3647.0	3662.6
25°	4992.3	4766.8	4378.0	4004.7	3775.3	3623.7	3561.5	3538.1	3545.9	3604.2	3623.7
27.5°	5035.1	4782.3	4319.7	3892.0	3639.2	3503.2	3468.2	3479.8	3510.9	3584.8	3608.1
30°	5073.9	4786.2	4238.0	3759.8	3483.7	3355.4	3371.0	3421.5	3468.2	3542.0	3569.3
32.5°	5124.5	4790.1	4152.5	3615.9	3316.5	3223.2	3293.2	3374.8	3421.5	3491.5	3522.6
35°	5248.9	4856.2	4086.4	3475.9	3161.0	3110.5	3227.1	3332.1	3359.3	3421.5	3448.7
37.5°	5392.8	4965.1	4051.4	3332.1	3009.4	2997.7	3145.5	3250.4	3258.2	3297.1	3324.3
40°	5482.2	5011.7	4012.5	3211.6	2873.3	2881.1	3032.7	3114.3	3098.8	3126.0	3145.5
42.5°	5571.6	5027.3	3930.8	3110.5	2745.0	2752.8	2869.4	2927.7	2935.5	2993.8	3021.0
45°	5723.2	5070.1	3841.4	3017.1	2628.3	2601.1	2671.1	2748.9	2850.0	2962.7	2993.8
47.5°	5925.4	5159.5	3748.1	2904.4	2515.6	2426.2	2453.4	2589.5	2694.4	2799.4	2818.9
50°	6131.5	5248.9	3662.6	2768.3	2402.8	2239.5	2251.2	2375.6	2461.2	2542.8	2554.5
52.5°	6333.7	5326.7	3588.7	2640.0	2274.5	2017.9	2064.6	2192.9	2251.2	2290.1	2301.7
55°	6535.9	5392.8	3522.6	2531.1	2126.8	1842.9	1885.7	2006.2	2064.6	2084.0	2091.8
57.5°	6745.8	5470.5	3472.1	2437.8	1959.6	1687.4	1714.6	1800.2	1854.6	1877.9	1870.2
60°	6920.8	5536.6	3444.8	2340.6	1792.4	1543.6	1535.8	1613.6	1691.3	1714.6	1706.9
62.5°	7056.9	5579.4	3402.1	2216.2	1644.7	1399.7	1360.8	1461.9	1543.6	1559.1	1570.8
65°	7130.7	5583.3	3297.1	2056.8	1493.0	1244.2	1217.0	1318.1	1368.6	1384.2	1384.2
67.5°	7119.1	5521.1	3091.0	1842.9	1353.1	1104.2	1080.9	1143.1	1217.0	1228.6	1217.0
70°	6878.0	5264.5	2760.5	1617.4	1185.9	979.8	937.0	999.2	1069.2	1026.5	1007.0
72.5°	6193.7	4599.6	2274.5	1368.6	999.2	824.3	804.8	867.0	870.9	878.7	859.3
75°	4887.3	3425.4	1703.0	1065.3	808.7	692.1	688.2	676.5	692.1	723.2	699.9
77.5°	2566.1	1710.8	921.5	653.2	587.1	556.0	528.8	524.9	571.5	591.0	567.7
80°	1391.9	960.4	528.8	392.7	357.7	361.6	396.6	388.8	439.4	451.0	431.6
82.5°	606.5	454.9	260.5	237.2	237.2	233.3	244.9	272.2	326.6	326.6	260.5
85°	132.2	112.8	101.1	116.6	132.2	132.2	132.2	132.2	93.3	50.5	35.0
87.5°	42.8	42.8	42.8	46.7	50.5	50.5	42.8	31.1	19.4	3.9	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)