

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: P835895

Luminaire Tested: **ARCH3-110-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17122 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
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



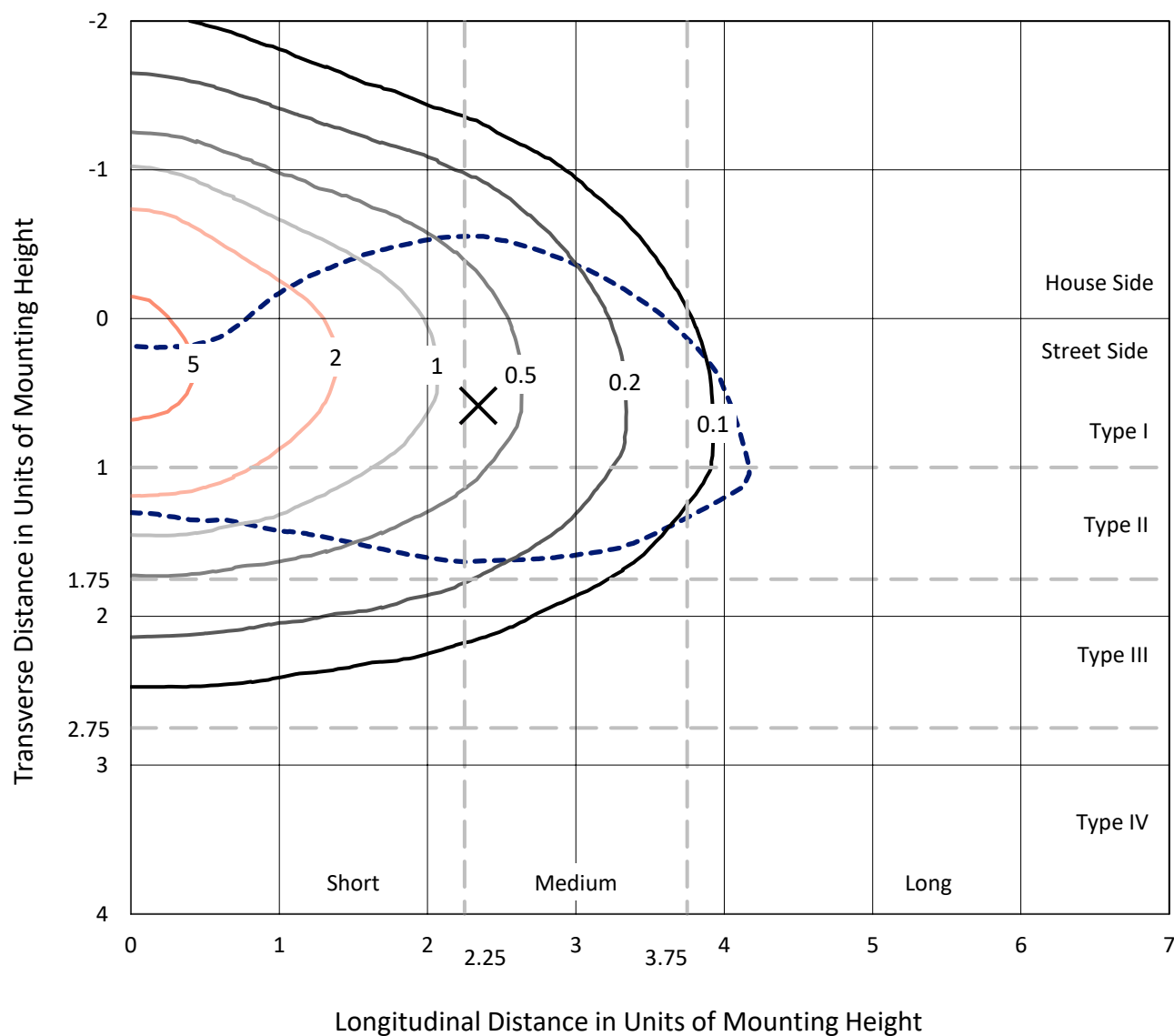
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

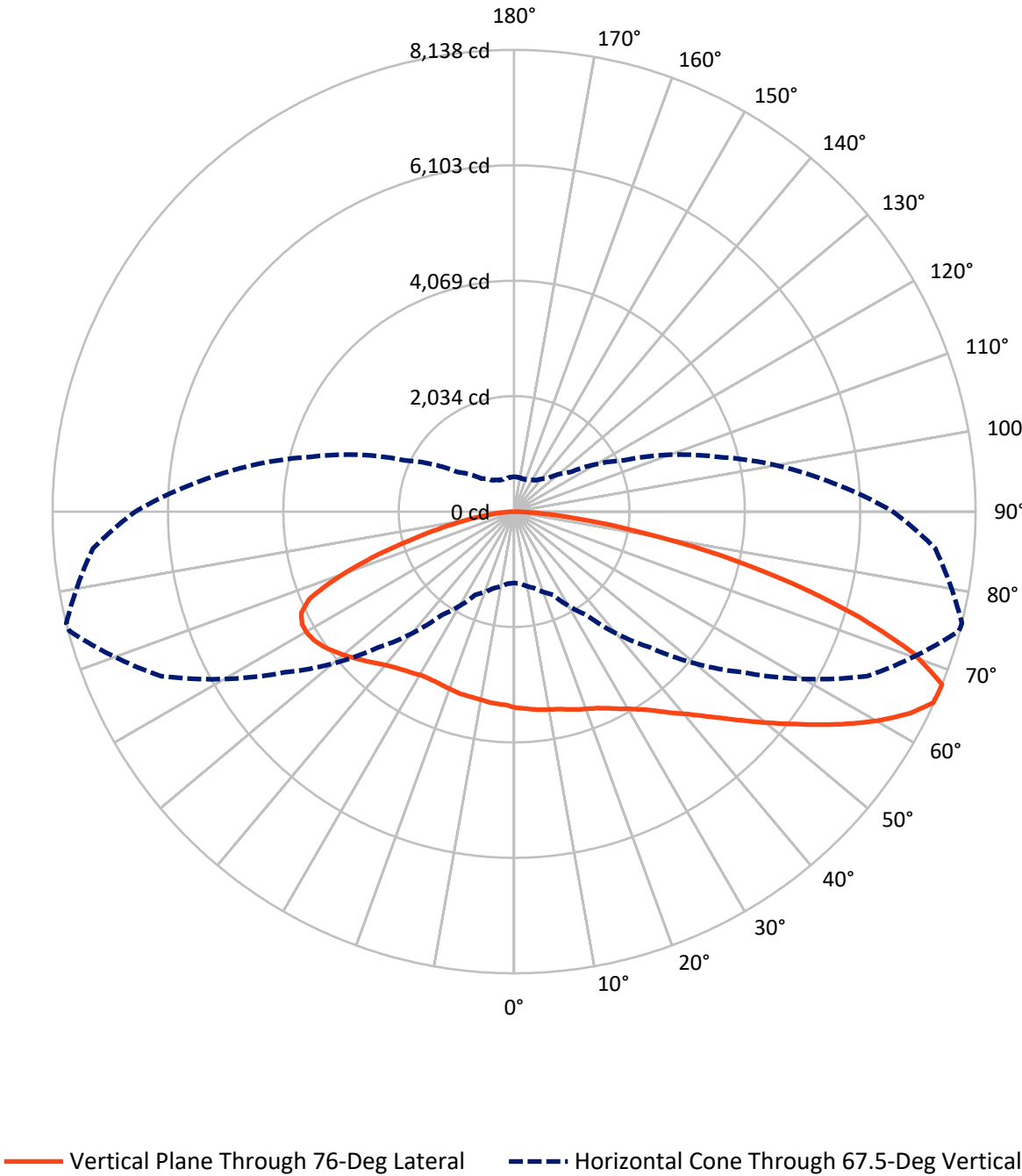
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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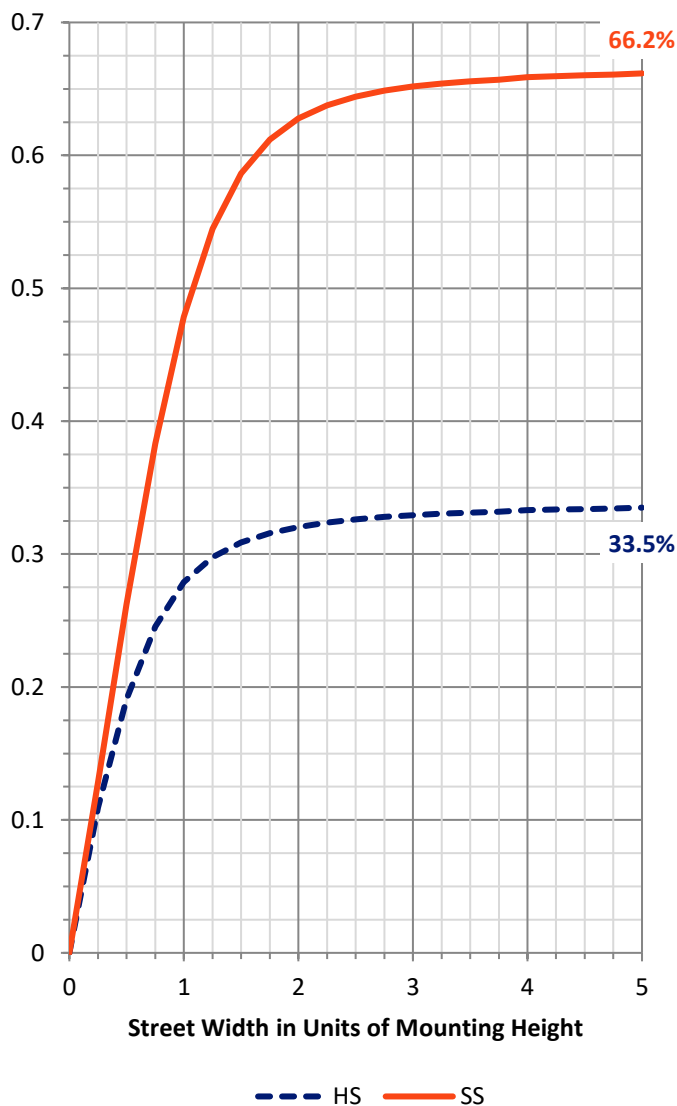
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5785.6	0.0	5785.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11336.4	0.0	11336.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	17122.0	0.0	17122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.9
10°-20°	1019.6	6.0
20°-30°	1732.3	10.1
30°-40°	2464.9	14.4
40°-50°	3113.0	18.2
50°-60°	3370.4	19.7
60°-70°	3134.9	18.3
70°-80°	1683.7	9.8
80°-90°	269.8	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°	17122.0	100.0
0°-180°	17122.0	100.0

Coefficient of Utilization



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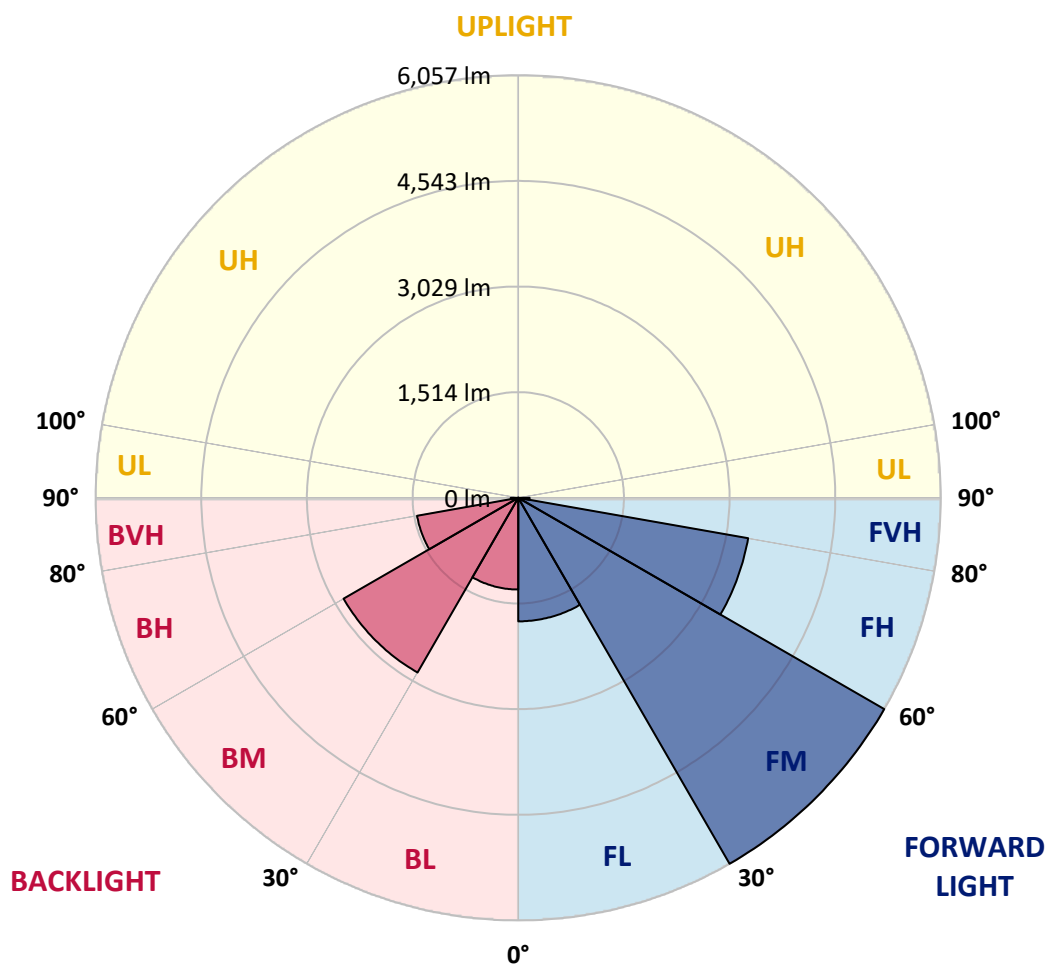
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1770.6	10.3			
FM	(30°-60°)	6057.1	35.4			
FH	(60°-80°)	3345.5	19.5			G2/5000
FVH	(80°-90°)	163.2	1.0			G2/225
BL	(0°-30°)	1314.8	7.7	B3/2500		
BM	(30°-60°)	2891.2	16.9	B3/5000		
BH	(60°-80°)	1473.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	106.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6
2.5°	3563.5	3557.2	3531.7	3534.9	3534.9	3531.7	3493.6	3477.7	3477.7	3474.5	3439.5
5°	3690.7	3681.1	3652.5	3646.2	3633.4	3617.5	3557.2	3522.2	3506.3	3503.1	3455.4
7.5°	3840.1	3827.4	3792.4	3773.3	3741.5	3700.2	3623.9	3569.9	3531.7	3528.5	3461.8
10°	3989.5	3976.8	3935.4	3900.5	3856.0	3789.2	3690.7	3611.2	3550.8	3544.4	3465.0
12.5°	4167.5	4154.8	4103.9	4059.4	3992.7	3903.6	3773.3	3665.2	3582.6	3573.0	3474.5
15°	4355.0	4336.0	4285.1	4234.2	4151.6	4037.2	3881.4	3738.3	3633.4	3617.5	3503.1
17.5°	4510.8	4485.4	4444.1	4393.2	4301.0	4167.5	3989.5	3811.5	3681.1	3668.4	3531.7
20°	4644.3	4625.3	4580.7	4533.1	4434.5	4288.3	4091.2	3884.6	3725.6	3709.7	3554.0
22.5°	4771.5	4746.0	4720.6	4685.6	4577.6	4415.4	4208.8	3973.6	3782.9	3763.8	3582.6
25°	4917.7	4889.1	4879.6	4860.5	4733.3	4568.0	4351.9	4084.8	3862.3	3840.1	3633.4
27.5°	5098.9	5067.1	5048.0	5048.0	4895.5	4723.8	4504.5	4215.2	3954.5	3935.4	3697.0
30°	5289.6	5251.5	5222.9	5222.9	5051.2	4879.6	4653.9	4345.5	4059.4	4037.2	3779.7
32.5°	5458.1	5420.0	5388.2	5385.0	5207.0	5035.3	4809.6	4488.6	4186.6	4158.0	3881.4
35°	5588.4	5553.5	5524.9	5531.2	5362.7	5194.3	4984.5	4679.3	4345.5	4313.7	4014.9
37.5°	5667.9	5655.2	5639.3	5661.6	5505.8	5346.9	5165.7	4863.7	4526.7	4498.1	4180.2
40°	5709.2	5699.7	5763.3	5791.9	5626.6	5483.5	5346.9	5054.4	4723.8	4692.0	4370.9
42.5°	5769.6	5849.1	5874.5	5868.2	5715.6	5588.4	5512.2	5261.0	4955.9	4927.2	4599.8
45°	5553.5	5534.4	5674.3	5750.6	5722.0	5655.2	5667.9	5509.0	5226.1	5197.4	4863.7
47.5°	5264.2	5238.8	5318.2	5505.8	5617.1	5680.6	5807.8	5766.5	5537.6	5512.2	5172.0
50°	4653.9	4688.8	4984.5	5235.6	5454.9	5674.3	5925.4	6043.0	5880.9	5855.5	5502.6
52.5°	3976.8	4011.7	4320.1	4898.6	5257.8	5626.6	6011.2	6319.6	6252.8	6224.2	5855.5
55°	3484.0	3560.3	3910.0	4329.6	4978.1	5477.2	6062.1	6602.5	6653.4	6627.9	6240.1
57.5°	2994.5	3051.7	3315.6	3687.5	4596.6	5216.5	6058.9	6866.4	7073.0	7047.5	6631.1
60°	2419.1	2492.2	2702.0	3102.6	4088.0	4905.0	5969.9	7073.0	7476.7	7457.6	7009.4
62.5°	2024.9	2047.2	2196.6	2543.1	3433.2	4510.8	5769.6	7184.2	7842.3	7829.5	7349.5
65°	1630.8	1633.9	1770.6	2059.9	2800.6	4021.3	5429.5	7142.9	8118.8	8125.2	7594.3
67.5°	1258.8	1274.7	1398.7	1618.0	2225.2	3385.5	4943.1	6863.2	8122.0	8137.9	7454.4
70°	871.0	883.7	1071.3	1284.3	1719.8	2698.9	4285.1	6122.5	7454.4	7467.2	6682.0
72.5°	613.5	619.9	820.1	1026.8	1344.7	2034.5	3232.9	5063.9	6354.6	6364.1	5620.2
75°	457.8	464.1	578.6	778.8	1030.0	1408.2	2209.3	3878.2	5076.6	5076.6	4437.7
77.5°	324.2	327.4	375.1	537.2	686.6	950.5	1328.8	2539.9	3725.6	3732.0	3232.9
80°	219.3	222.5	244.8	362.4	429.1	515.0	721.6	1331.9	2349.2	2358.7	2053.5
82.5°	114.4	120.8	136.7	184.4	216.2	286.1	371.9	677.1	1300.2	1325.6	1233.4
85°	44.5	44.5	50.9	60.4	79.5	111.3	171.7	257.5	588.1	607.2	543.6
87.5°	15.9	15.9	19.1	19.1	22.3	25.4	28.6	38.1	66.8	66.8	63.6
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°	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6
2.5°	3426.8	3426.8	3410.9	3417.3	3414.1	3407.7	3401.4	3410.9	3401.4	3379.1	3376.0
5°	3433.2	3426.8	3401.4	3398.2	3388.7	3376.0	3360.1	3366.4	3350.5	3331.5	3328.3
7.5°	3436.4	3423.6	3388.7	3376.0	3356.9	3331.5	3306.0	3306.0	3283.8	3264.7	3261.5
10°	3430.0	3414.1	3366.4	3341.0	3306.0	3267.9	3232.9	3223.4	3197.9	3175.7	3175.7
12.5°	3433.2	3410.9	3350.5	3309.2	3261.5	3213.8	3169.3	3156.6	3134.4	3112.1	3108.9
15°	3452.2	3420.5	3344.2	3290.1	3220.2	3166.2	3118.5	3108.9	3089.9	3074.0	3074.0
17.5°	3471.3	3430.0	3334.6	3258.3	3172.5	3112.1	3067.6	3067.6	3054.9	3045.4	3045.4
20°	3480.9	3433.2	3315.6	3213.8	3115.3	3051.7	3010.4	3016.7	3013.6	3010.4	3010.4
22.5°	3503.1	3439.5	3299.7	3172.5	3054.9	2988.1	2950.0	2959.5	2956.3	2956.3	2959.5
25°	3538.1	3455.4	3286.9	3134.4	2997.7	2924.6	2883.2	2889.6	2889.6	2889.6	2889.6
27.5°	3585.8	3487.2	3283.8	3099.4	2940.5	2857.8	2806.9	2806.9	2794.2	2797.4	2800.6
30°	3658.9	3547.6	3290.1	3067.6	2880.1	2775.2	2714.8	2705.2	2702.0	2708.4	2711.6
32.5°	3747.9	3630.3	3328.3	3045.4	2816.5	2683.0	2606.7	2603.5	2594.0	2594.0	2594.0
35°	3859.1	3709.7	3363.2	3042.2	2752.9	2584.4	2501.8	2492.2	2470.0	2460.4	2460.4
37.5°	4002.2	3833.7	3404.6	3019.9	2698.9	2489.1	2390.5	2358.7	2333.3	2330.1	2330.1
40°	4177.0	3973.6	3465.0	2994.5	2641.6	2390.5	2260.2	2206.1	2209.3	2222.0	2222.0
42.5°	4383.7	4145.2	3541.3	2981.8	2559.0	2288.8	2107.6	2044.0	2066.3	2079.0	2082.2
45°	4625.3	4348.7	3627.1	2965.9	2482.7	2174.3	1945.5	1866.0	1875.5	1878.7	1881.9
47.5°	4905.0	4574.4	3716.1	2953.2	2396.9	2031.3	1767.4	1662.5	1659.4	1640.3	1646.7
50°	5197.4	4812.8	3808.3	2930.9	2292.0	1862.8	1579.9	1455.9	1430.5	1401.9	1405.1
52.5°	5509.0	5057.6	3894.1	2895.9	2161.6	1691.2	1401.9	1268.4	1217.5	1185.7	1192.1
55°	5852.3	5308.7	3976.8	2841.9	2024.9	1519.5	1242.9	1106.2	1042.7	1017.2	1020.4
57.5°	6167.0	5550.3	4037.2	2775.2	1875.5	1363.7	1103.1	969.6	928.2	925.1	928.2
60°	6472.2	5753.7	4062.6	2683.0	1722.9	1220.7	972.7	871.0	842.4	858.3	861.5
62.5°	6729.7	5884.1	4049.9	2559.0	1567.2	1084.0	867.8	794.7	775.6	807.4	810.6
65°	6879.1	5925.4	3960.9	2381.0	1398.7	950.5	769.3	689.8	680.3	699.4	708.9
67.5°	6682.0	5667.9	3719.3	2136.2	1211.1	826.5	673.9	610.3	594.4	610.3	610.3
70°	5922.2	4911.3	3147.1	1748.4	1004.5	705.7	584.9	540.4	527.7	540.4	537.2
72.5°	4933.6	4084.8	2479.5	1363.7	791.5	594.4	508.6	467.3	454.6	441.9	435.5
75°	3827.4	3102.6	1799.2	1001.3	597.6	476.8	426.0	387.8	356.0	368.7	362.4
77.5°	2803.8	2177.5	1274.7	693.0	429.1	368.7	333.8	305.2	282.9	308.4	305.2
80°	1805.6	1408.2	851.9	464.1	295.6	257.5	244.8	228.9	251.1	327.4	333.8
82.5°	1103.1	893.3	508.6	302.0	193.9	171.7	158.9	158.9	257.5	282.9	286.1
85°	492.7	473.7	276.6	155.8	108.1	98.5	89.0	114.4	104.9	76.3	79.5
87.5°	79.5	82.7	60.4	54.0	41.3	41.3	31.8	22.3	15.9	9.5	9.5
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)