

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: P841168

Luminaire Tested: **ARCH4-140-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841168
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: ARCH4-140-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23399 lumens
Efficiency: N/A
Efficacy: 165.6 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

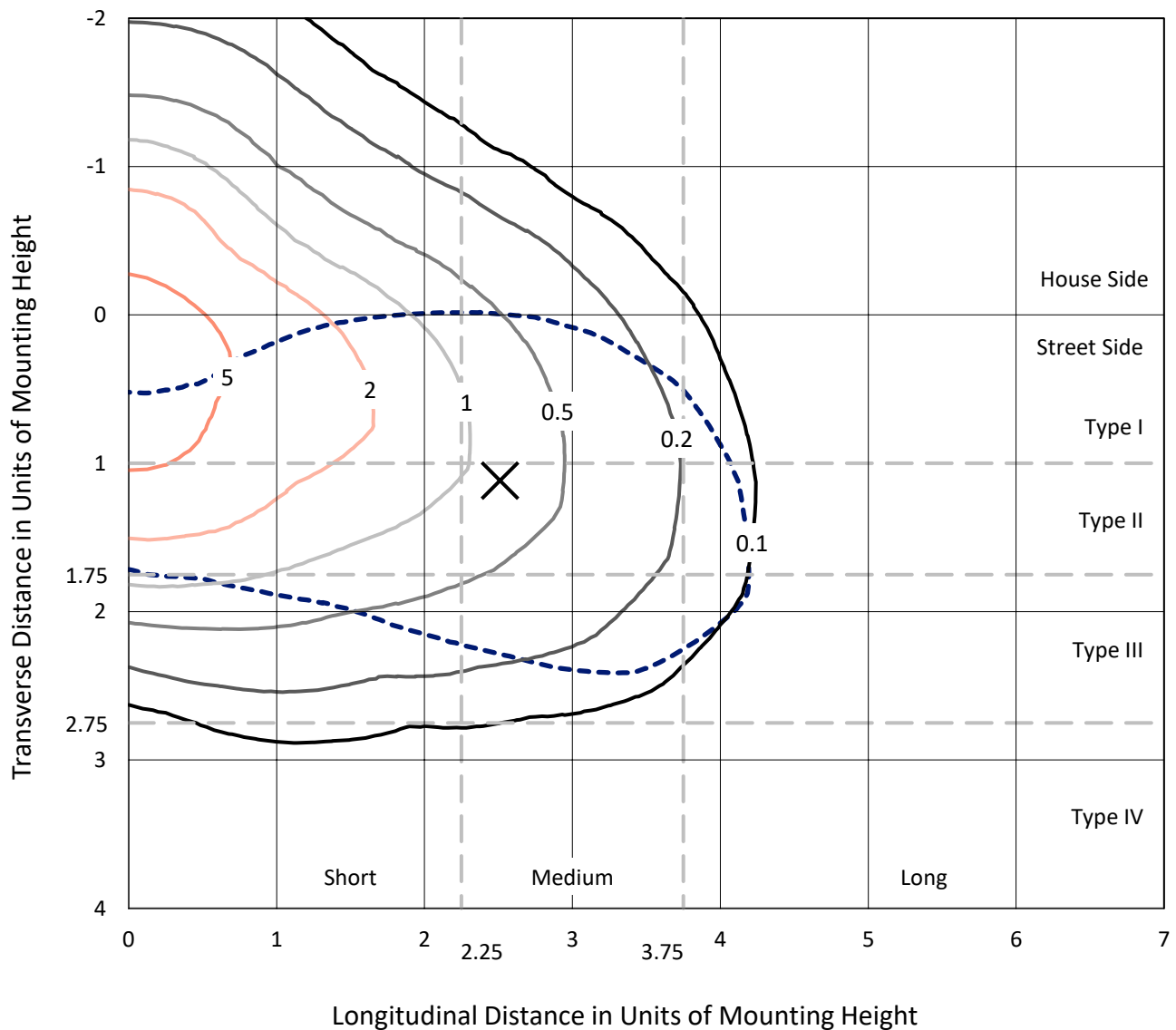
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

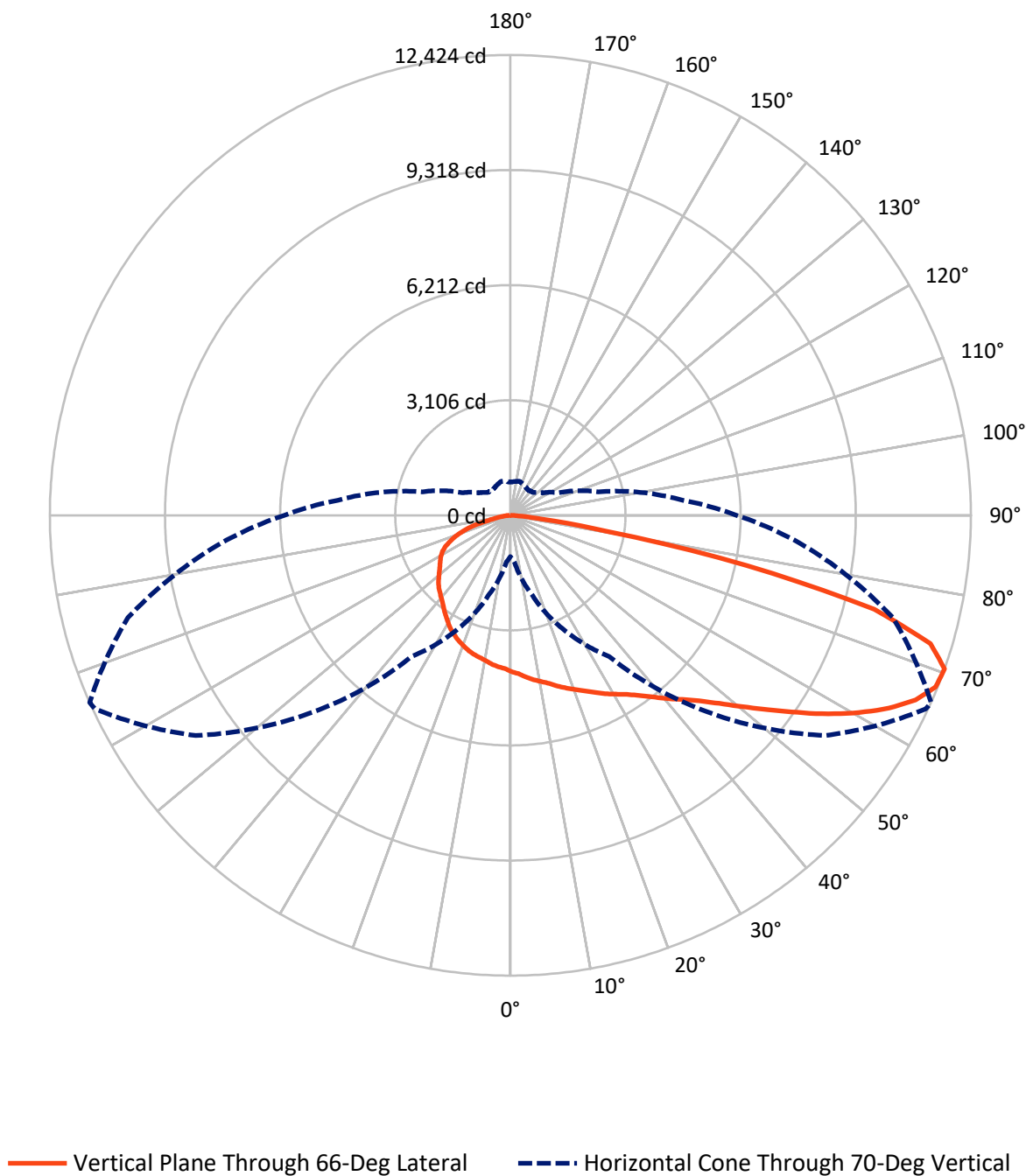
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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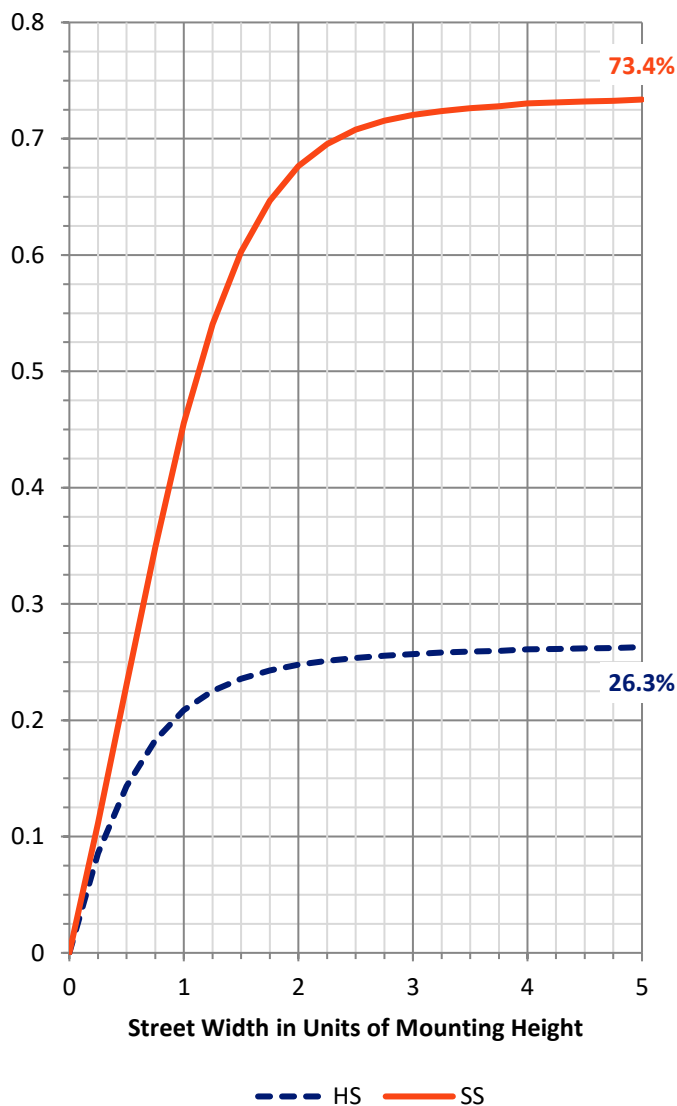
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6200.2	0.0	6200.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	17198.8	0.0	17198.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	23399.0	0.0	23399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	1.7
10°-20°	1217.2	5.2
20°-30°	2040.4	8.7
30°-40°	3055.2	13.1
40°-50°	4084.8	17.5
50°-60°	4769.2	20.4
60°-70°	4742.2	20.3
70°-80°	2807.4	12.0
80°-90°	276.7	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°	23399.0	100.0
0°-180°	23399.0	100.0

Coefficient of Utilization



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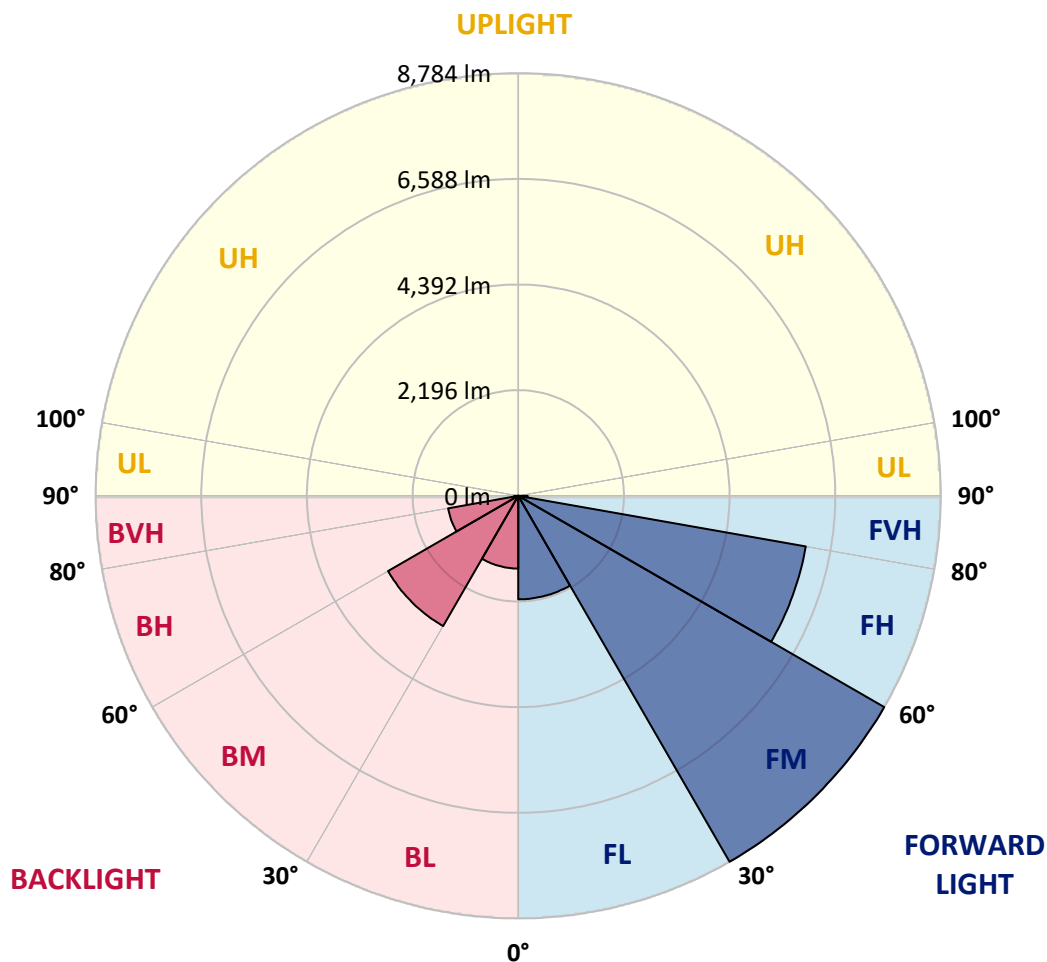
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2152.1	9.2			
FM	(30°-60°)	8783.7	37.5			
FH	(60°-80°)	6068.6	25.9			G3/7500
FVH	(80°-90°)	194.5	0.8			G2/225
BL	(0°-30°)	1511.3	6.5	B3/2500		
BM	(30°-60°)	3125.5	13.4	B3/5000		
BH	(60°-80°)	1481.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	82.2	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°	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0
2.5°	4378.2	4371.3	4367.9	4354.1	4323.0	4336.8	4305.8	4285.1	4281.6	4233.3	4205.7
5°	4557.7	4554.2	4547.3	4526.6	4478.3	4485.2	4433.4	4395.5	4385.1	4309.2	4250.6
7.5°	4709.5	4702.6	4699.1	4671.5	4619.8	4616.3	4554.2	4499.0	4481.7	4378.2	4288.5
10°	4826.8	4816.4	4823.3	4795.7	4740.5	4730.2	4650.8	4578.4	4561.1	4430.0	4305.8
12.5°	4926.8	4919.9	4930.3	4906.1	4861.3	4850.9	4771.6	4678.4	4657.7	4505.9	4343.7
15°	5037.2	5013.1	5033.8	5023.4	4992.4	4988.9	4916.5	4813.0	4785.4	4602.5	4402.4
17.5°	5095.9	5082.1	5106.2	5109.7	5095.9	5120.0	5051.0	4926.8	4902.7	4692.2	4454.1
20°	5137.3	5116.6	5144.2	5164.9	5175.2	5223.5	5168.3	5047.6	5020.0	4778.5	4502.4
22.5°	5278.7	5233.9	5237.3	5251.1	5258.0	5327.0	5292.5	5175.2	5147.6	4885.4	4561.1
25°	5634.1	5544.4	5485.7	5444.3	5396.0	5454.7	5434.0	5320.1	5296.0	5013.1	4633.6
27.5°	6186.1	6072.3	5955.0	5834.2	5644.4	5620.3	5585.8	5482.3	5454.7	5140.7	4706.0
30°	6814.1	6700.2	6562.2	6369.0	6013.6	5827.3	5748.0	5634.1	5603.0	5254.6	4775.0
32.5°	7438.5	7338.5	7200.5	6965.9	6458.7	6079.2	5910.1	5792.8	5761.8	5378.8	4857.8
35°	7925.0	7862.9	7773.2	7479.9	6900.3	6375.9	6144.7	6003.3	5968.8	5575.4	5009.6
37.5°	8318.3	8273.5	8197.6	7890.5	7221.2	6672.6	6413.8	6251.7	6213.7	5789.4	5171.8
40°	8897.9	8780.6	8718.5	8273.5	7500.6	6941.7	6717.4	6548.4	6507.0	6017.1	5302.9
42.5°	9391.3	9305.1	9229.2	8615.0	7766.3	7172.9	7003.8	6848.6	6793.4	6241.3	5444.3
45°	9474.1	9508.6	9470.7	8784.1	8187.2	7400.6	7293.6	7193.6	7141.8	6544.9	5658.3
47.5°	9477.6	9477.6	9253.3	8880.7	8708.2	7655.9	7604.1	7638.6	7583.4	6931.4	5913.6
50°	9229.2	9274.0	9156.7	8904.8	8846.2	7911.2	7983.7	8170.0	8114.8	7341.9	6189.6
52.5°	8715.1	8863.4	8860.0	8866.9	8646.1	8128.6	8383.9	8808.2	8715.1	7804.2	6482.8
55°	7807.7	8104.4	8370.1	8597.8	8473.6	8259.7	8873.8	9487.9	9391.3	8321.8	6779.5
57.5°	7031.4	7221.2	7552.4	8197.6	8270.0	8373.5	9332.7	10198.7	10112.4	8894.5	7090.1
60°	6144.7	6406.9	6738.1	7655.9	8021.6	8521.9	9836.4	10892.1	10809.3	9474.1	7390.2
62.5°	4781.9	5120.0	5782.5	6824.4	7659.3	8615.0	10233.2	11502.8	11464.9	10022.7	7659.3
65°	3332.8	3633.0	4561.1	5803.2	7083.2	8573.6	10550.6	12047.9	12013.4	10471.2	7849.1
67.5°	1945.9	2294.4	3343.2	4671.5	6065.4	8287.3	10654.1	12368.8	12368.8	10743.8	7900.8
70°	1110.9	1273.1	2204.6	3405.3	4650.8	7497.2	10364.3	12365.3	12424.0	10681.7	7686.9
72.5°	776.3	848.7	1483.6	2290.9	3153.4	6065.4	9605.2	11768.5	11847.8	10095.1	6955.5
75°	603.8	655.5	1045.4	1562.9	1987.3	4119.5	7945.7	9922.6	10133.1	8604.7	5623.7
77.5°	458.9	496.8	610.7	976.4	1273.1	2366.8	5244.2	6507.0	6520.8	5268.4	3015.4
80°	334.7	372.6	407.1	596.9	676.2	1107.5	1980.4	2718.7	2642.8	2549.7	1631.9
82.5°	200.1	238.1	248.4	324.3	331.2	472.7	693.5	876.3	841.8	1121.3	765.9
85°	86.3	120.8	127.7	148.4	141.5	193.2	276.0	231.2	207.0	238.1	165.6
87.5°	20.7	34.5	34.5	38.0	31.1	48.3	51.8	38.0	34.5	41.4	41.4
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°	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0	4223.0
2.5°	4198.8	4188.5	4191.9	4133.3	4116.0	4098.8	4088.4	4081.5	4074.6	4085.0	4095.3
5°	4229.9	4205.7	4178.1	4091.9	4057.4	4019.4	3991.8	3967.7	3957.3	3957.3	3967.7
7.5°	4254.0	4212.6	4154.0	4040.1	3978.0	3926.3	3881.4	3850.4	3833.1	3833.1	3843.5
10°	4257.5	4198.8	4105.7	3967.7	3884.9	3809.0	3757.2	3722.7	3698.6	3698.6	3705.5
12.5°	4278.2	4198.8	4078.1	3912.5	3809.0	3715.8	3653.7	3602.0	3591.6	3591.6	3598.5
15°	4312.7	4216.1	4060.8	3864.2	3740.0	3633.0	3564.0	3508.8	3488.1	3501.9	3505.4
17.5°	4343.7	4226.4	4029.8	3802.1	3653.7	3536.4	3460.5	3412.2	3384.6	3415.7	3415.7
20°	4364.4	4226.4	3984.9	3722.7	3560.6	3429.5	3357.0	3298.3	3277.6	3315.6	3319.0
22.5°	4395.5	4223.0	3936.6	3643.4	3460.5	3322.5	3250.0	3205.2	3194.8	3236.2	3250.0
25°	4430.0	4229.9	3884.9	3553.7	3350.1	3215.5	3160.3	3139.6	3146.5	3198.3	3215.5
27.5°	4467.9	4243.7	3833.1	3453.6	3229.3	3108.6	3077.5	3087.9	3115.5	3181.0	3201.7
30°	4502.4	4247.1	3760.7	3336.3	3091.3	2977.5	2991.3	3036.1	3077.5	3143.1	3167.2
32.5°	4547.3	4250.6	3684.8	3208.6	2943.0	2860.2	2922.3	2994.7	3036.1	3098.2	3125.8
35°	4657.7	4309.2	3626.1	3084.4	2805.0	2760.1	2863.6	2956.8	2980.9	3036.1	3060.3
37.5°	4785.4	4405.8	3595.1	2956.8	2670.4	2660.1	2791.2	2884.3	2891.2	2925.7	2949.9
40°	4864.7	4447.2	3560.6	2849.8	2549.7	2556.6	2691.1	2763.6	2749.8	2773.9	2791.2
42.5°	4944.1	4461.0	3488.1	2760.1	2435.8	2442.7	2546.2	2598.0	2604.9	2656.6	2680.8
45°	5078.6	4499.0	3408.8	2677.3	2332.3	2308.2	2370.3	2439.3	2529.0	2629.0	2656.6
47.5°	5258.0	4578.4	3325.9	2577.3	2232.2	2152.9	2177.0	2297.8	2391.0	2484.1	2501.4
50°	5440.9	4657.7	3250.0	2456.5	2132.2	1987.3	1997.6	2108.0	2183.9	2256.4	2266.8
52.5°	5620.3	4726.7	3184.5	2342.7	2018.3	1790.6	1832.0	1945.9	1997.6	2032.1	2042.5
55°	5799.7	4785.4	3125.8	2246.0	1887.2	1635.4	1673.3	1780.3	1832.0	1849.3	1856.2
57.5°	5986.0	4854.4	3081.0	2163.2	1738.9	1497.4	1521.5	1597.4	1645.7	1666.4	1659.5
60°	6141.3	4913.0	3056.8	2077.0	1590.5	1369.7	1362.8	1431.8	1500.8	1521.5	1514.6
62.5°	6262.0	4951.0	3018.9	1966.6	1459.4	1242.1	1207.6	1297.3	1369.7	1383.5	1393.9
65°	6327.6	4954.4	2925.7	1825.1	1324.9	1104.0	1079.9	1169.6	1214.5	1228.3	1228.3
67.5°	6317.2	4899.2	2742.9	1635.4	1200.7	979.8	959.1	1014.3	1079.9	1090.2	1079.9
70°	6103.3	4671.5	2449.6	1435.3	1052.3	869.4	831.5	886.7	948.8	910.8	893.6
72.5°	5496.1	4081.5	2018.3	1214.5	886.7	731.4	714.2	769.4	772.8	779.7	762.5
75°	4336.8	3039.6	1511.2	945.3	717.6	614.1	610.7	600.3	614.1	641.7	621.0
77.5°	2277.1	1518.1	817.7	579.6	521.0	493.4	469.2	465.8	507.2	524.4	503.7
80°	1235.2	852.2	469.2	348.5	317.4	320.9	351.9	345.0	389.9	400.2	383.0
82.5°	538.2	403.7	231.2	210.5	210.5	207.0	217.4	241.5	289.8	289.8	231.2
85°	117.3	100.1	89.7	103.5	117.3	117.3	117.3	117.3	82.8	44.9	31.1
87.5°	38.0	38.0	38.0	41.4	44.9	44.9	38.0	27.6	17.3	3.5	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)