

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: P841220

Luminaire Tested: **ARCH4-150-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21672 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

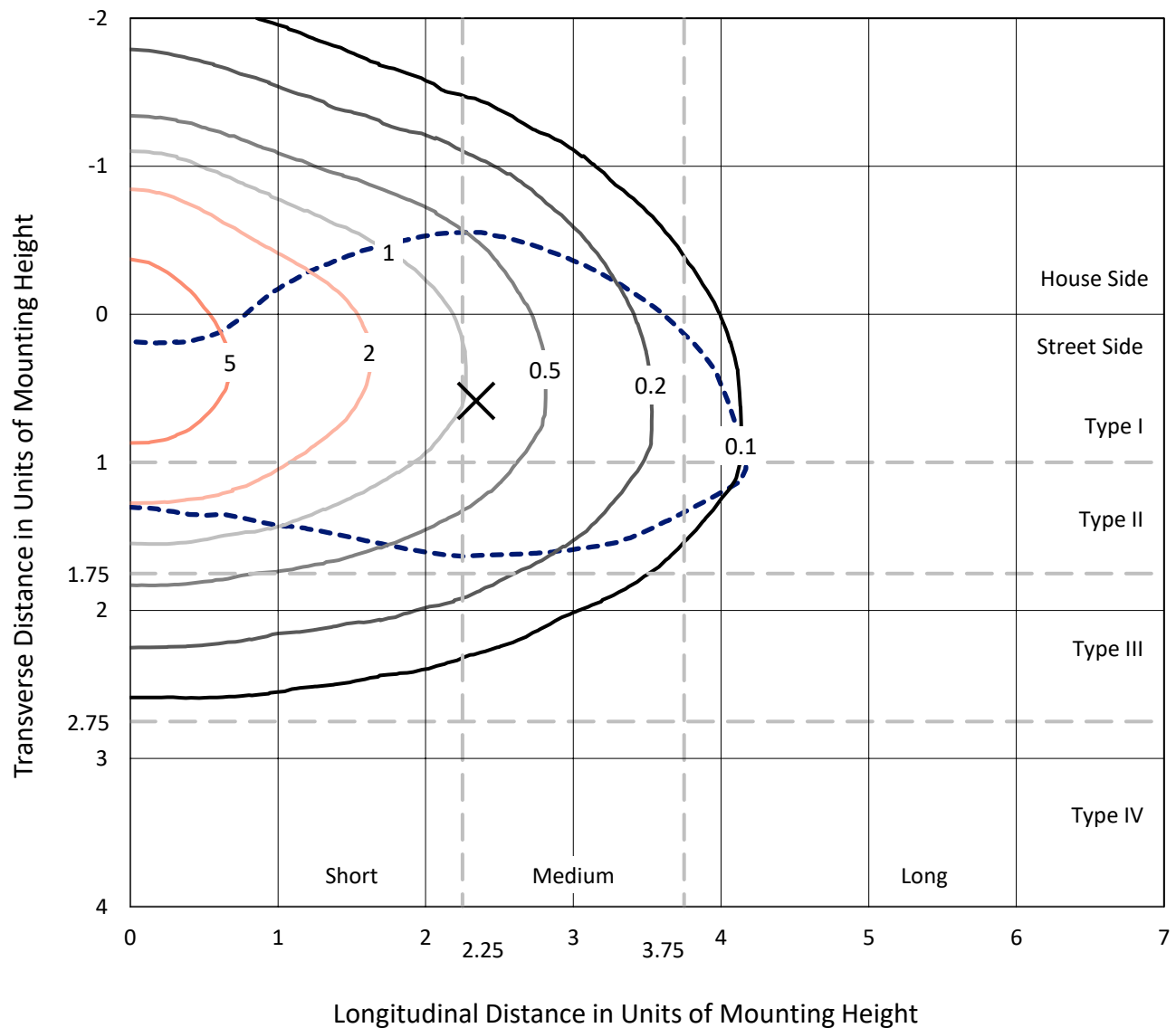
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

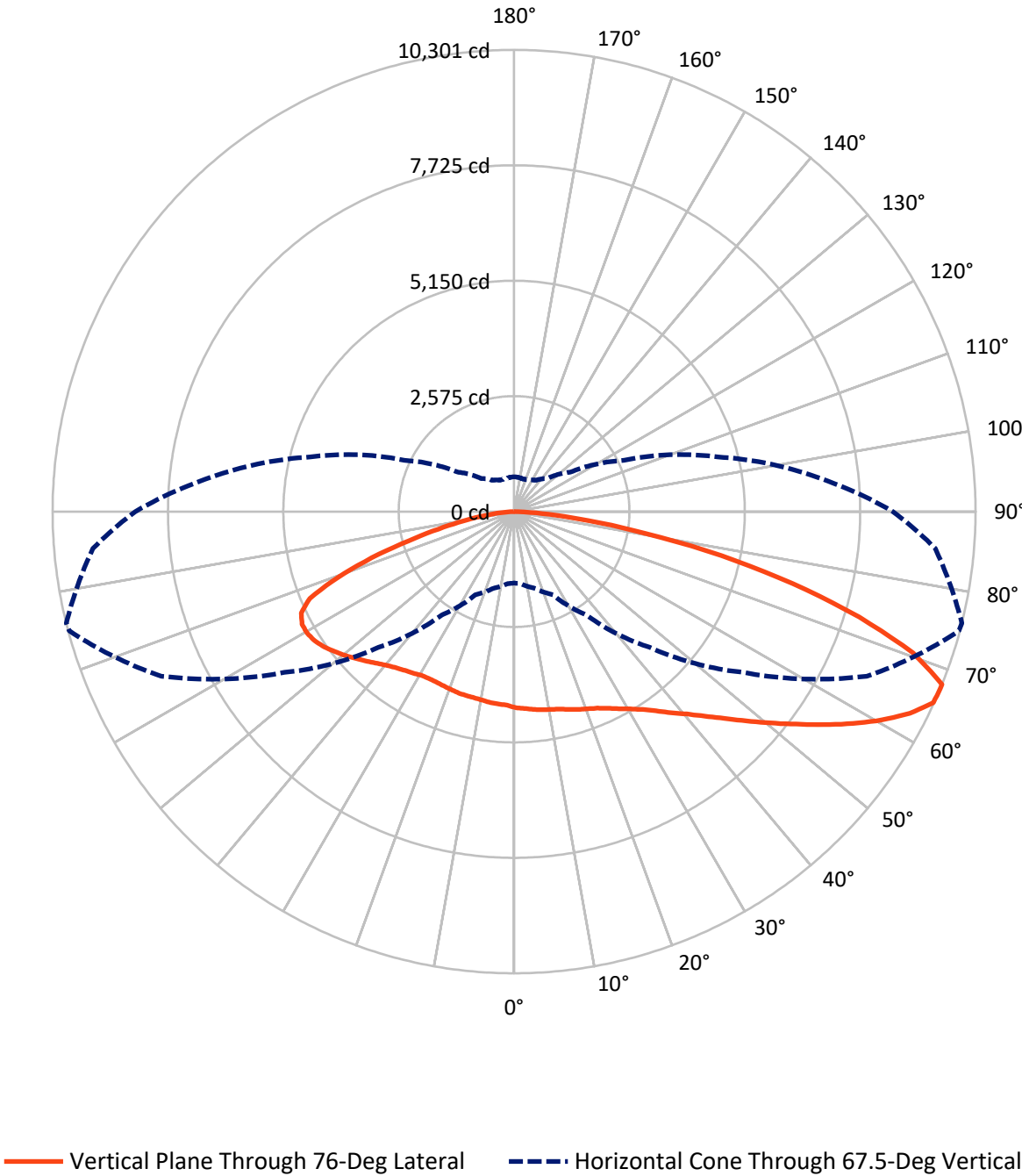
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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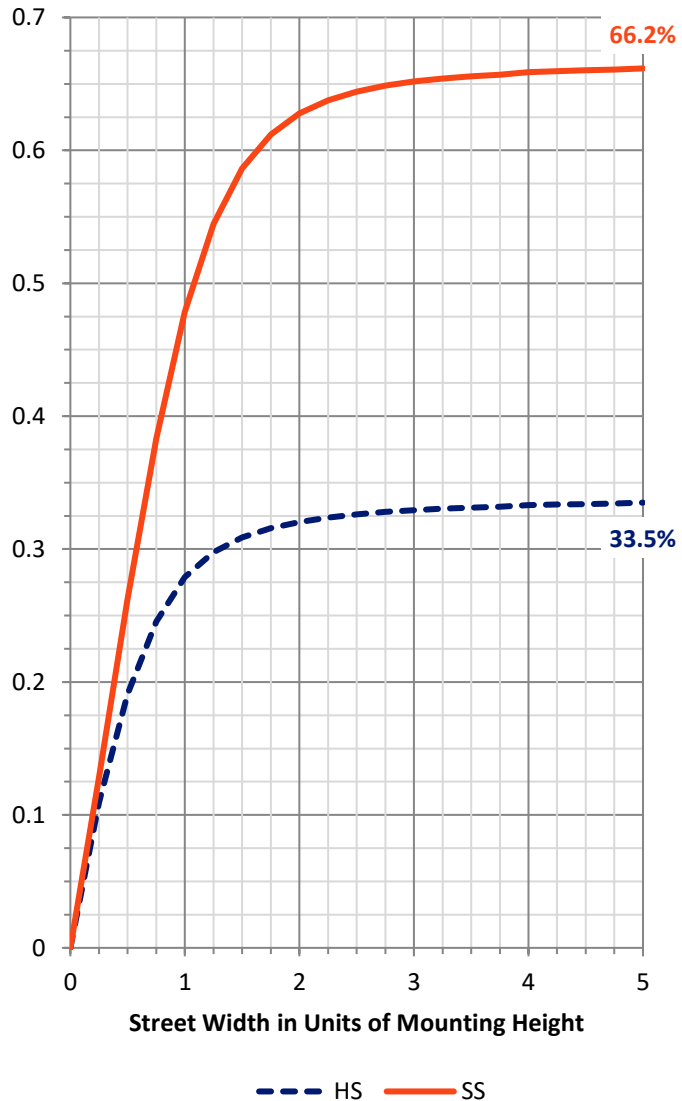
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7323.1	0.0	7323.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14348.9	0.0	14348.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	21672.0	0.0	21672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	1.9
10°-20°	1290.5	6.0
20°-30°	2192.7	10.1
30°-40°	3119.9	14.4
40°-50°	3940.2	18.2
50°-60°	4266.1	19.7
60°-70°	3967.9	18.3
70°-80°	2131.1	9.8
80°-90°	341.5	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°	21672.0	100.0
0°-180°	21672.0	100.0

Coefficient of Utilization



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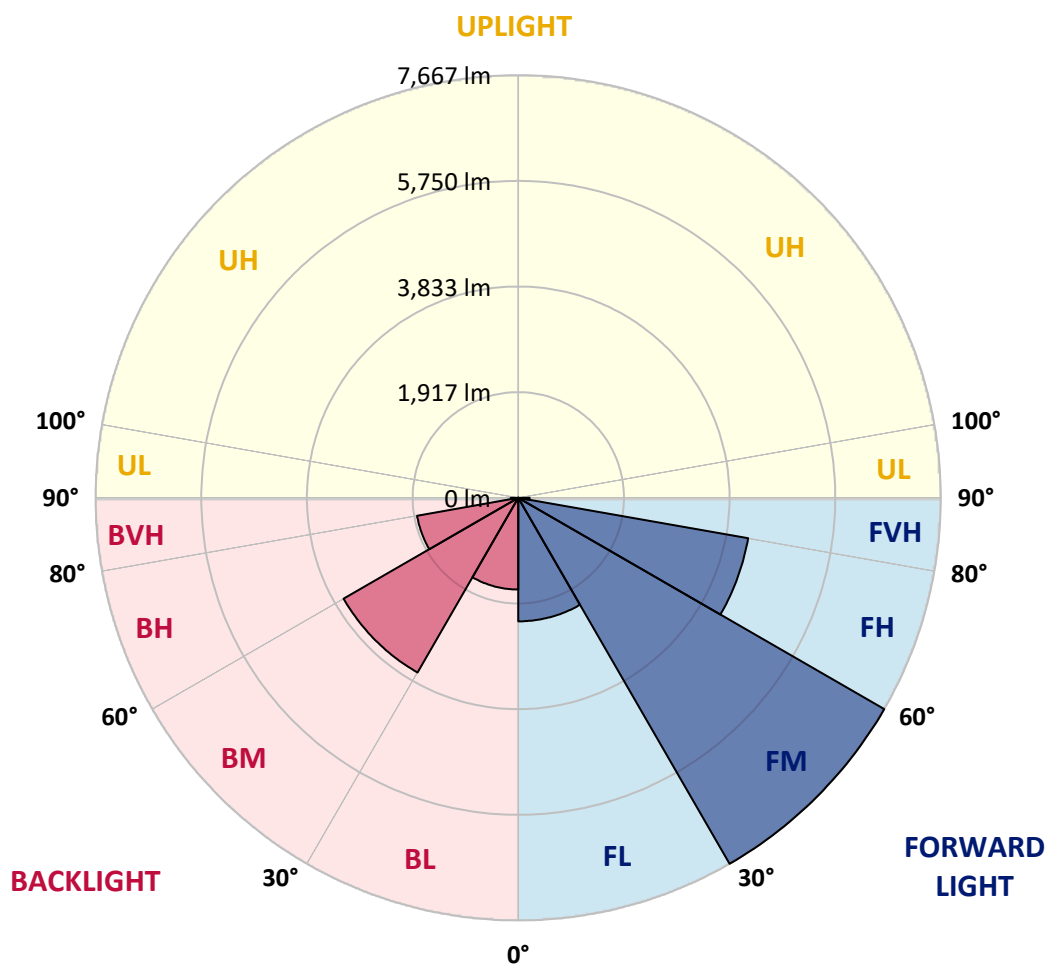
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.1	10.3			
FM	(30°-60°)	7666.7	35.4			
FH	(60°-80°)	4234.5	19.5			G2/5000
FVH	(80°-90°)	206.6	1.0			G2/225
BL	(0°-30°)	1664.2	7.7	B3/2500		
BM	(30°-60°)	3659.4	16.9	B3/5000		
BH	(60°-80°)	1864.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	134.9	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°	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7
2.5°	4510.5	4502.4	4470.2	4474.3	4474.3	4470.2	4422.0	4401.8	4401.8	4397.8	4353.6
5°	4671.4	4659.3	4623.1	4615.1	4599.0	4578.9	4502.4	4458.2	4438.1	4434.0	4373.7
7.5°	4860.5	4844.4	4800.2	4776.0	4735.8	4683.5	4586.9	4518.5	4470.2	4466.2	4381.7
10°	5049.6	5033.5	4981.2	4937.0	4880.6	4796.2	4671.4	4570.8	4494.4	4486.3	4385.7
12.5°	5275.0	5258.9	5194.5	5138.2	5053.7	4941.0	4776.0	4639.2	4534.6	4522.5	4397.8
15°	5512.4	5488.2	5423.8	5359.5	5254.8	5110.0	4912.8	4731.8	4599.0	4578.9	4434.0
17.5°	5709.5	5677.3	5625.0	5560.6	5444.0	5275.0	5049.6	4824.3	4659.3	4643.3	4470.2
20°	5878.5	5854.4	5798.0	5737.7	5612.9	5427.9	5178.4	4916.9	4715.7	4695.6	4498.4
22.5°	6039.5	6007.3	5975.1	5930.8	5794.0	5588.8	5327.3	5029.5	4788.1	4764.0	4534.6
25°	6224.5	6188.3	6176.3	6152.1	5991.2	5781.9	5508.3	5170.3	4888.7	4860.5	4599.0
27.5°	6453.9	6413.6	6389.5	6389.5	6196.4	5979.1	5701.5	5335.3	5005.4	4981.2	4679.5
30°	6695.3	6647.0	6610.8	6610.8	6393.5	6176.3	5890.6	5500.3	5138.2	5110.0	4784.1
32.5°	6908.6	6860.3	6820.0	6816.0	6590.7	6373.4	6087.7	5681.3	5299.1	5262.9	4912.8
35°	7073.5	7029.3	6993.0	7001.1	6787.8	6574.6	6309.0	5922.8	5500.3	5460.0	5081.8
37.5°	7174.1	7158.0	7137.9	7166.1	6968.9	6767.7	6538.4	6156.1	5729.6	5693.4	5291.1
40°	7226.4	7214.3	7294.8	7331.0	7121.8	6940.7	6767.7	6397.6	5979.1	5938.9	5532.5
42.5°	7302.9	7403.5	7435.6	7427.6	7234.5	7073.5	6977.0	6659.1	6272.8	6236.6	5822.2
45°	7029.3	7005.1	7182.2	7278.7	7242.5	7158.0	7174.1	6972.9	6614.8	6578.6	6156.1
47.5°	6663.1	6630.9	6731.5	6968.9	7109.7	7190.2	7351.1	7298.8	7009.1	6977.0	6546.4
50°	5890.6	5934.8	6309.0	6626.9	6904.5	7182.2	7500.0	7648.9	7443.7	7411.5	6964.9
52.5°	5033.5	5077.8	5468.1	6200.4	6655.1	7121.8	7608.7	7999.0	7914.5	7878.2	7411.5
55°	4409.9	4506.5	4949.0	5480.2	6301.0	6932.7	7673.0	8357.1	8421.4	8389.2	7898.4
57.5°	3790.2	3862.7	4196.6	4667.4	5818.2	6602.8	7669.0	8691.0	8952.5	8920.4	8393.3
60°	3062.0	3154.5	3420.1	3927.1	5174.4	6208.4	7556.4	8952.5	9463.5	9439.4	8872.1
62.5°	2563.0	2591.2	2780.3	3218.9	4345.5	5709.5	7302.9	9093.4	9926.3	9910.2	9302.6
65°	2064.1	2068.1	2241.2	2607.3	3544.8	5089.9	6872.3	9041.1	10276.3	10284.4	9612.4
67.5°	1593.4	1613.5	1770.4	2048.0	2816.5	4285.2	6256.7	8687.0	10280.3	10300.5	9435.4
70°	1102.5	1118.6	1356.0	1625.5	2176.8	3416.1	5423.8	7749.5	9435.4	9451.5	8457.6
72.5°	776.6	784.6	1038.1	1299.6	1702.0	2575.1	4092.0	6409.6	8043.2	8055.3	7113.8
75°	579.4	587.4	732.3	985.8	1303.7	1782.5	2796.4	4908.8	6425.7	6425.7	5617.0
77.5°	410.4	414.4	474.8	680.0	869.1	1203.1	1681.9	3214.9	4715.7	4723.7	4092.0
80°	277.6	281.7	309.8	458.7	543.2	651.8	913.4	1685.9	2973.5	2985.5	2599.3
82.5°	144.9	152.9	173.0	233.4	273.6	362.1	470.8	857.0	1645.7	1677.8	1561.2
85°	56.3	56.3	64.4	76.4	100.6	140.8	217.3	325.9	744.4	768.5	688.0
87.5°	20.1	20.1	24.1	24.1	28.2	32.2	36.2	48.3	84.5	84.5	80.5
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°	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7
2.5°	4337.5	4337.5	4317.3	4325.4	4321.4	4313.3	4305.3	4317.3	4305.3	4277.1	4273.1
5°	4345.5	4337.5	4305.3	4301.2	4289.2	4273.1	4253.0	4261.0	4240.9	4216.8	4212.7
7.5°	4349.5	4333.4	4289.2	4273.1	4248.9	4216.8	4184.6	4184.6	4156.4	4132.3	4128.2
10°	4341.5	4321.4	4261.0	4228.8	4184.6	4136.3	4092.0	4079.9	4047.8	4019.6	4019.6
12.5°	4345.5	4317.3	4240.9	4188.6	4128.2	4067.9	4011.5	3995.5	3967.3	3939.1	3935.1
15°	4369.6	4329.4	4232.8	4164.4	4075.9	4007.5	3947.2	3935.1	3911.0	3890.8	3890.8
17.5°	4393.8	4341.5	4220.8	4124.2	4015.6	3939.1	3882.8	3882.8	3866.7	3854.6	3854.6
20°	4405.9	4345.5	4196.6	4067.9	3943.1	3862.7	3810.4	3818.4	3814.4	3810.4	3810.4
22.5°	4434.0	4353.6	4176.5	4015.6	3866.7	3782.2	3733.9	3746.0	3742.0	3742.0	3746.0
25°	4478.3	4373.7	4160.4	3967.3	3794.3	3701.7	3649.4	3657.5	3657.5	3657.5	3657.5
27.5°	4538.6	4413.9	4156.4	3923.0	3721.8	3617.2	3552.9	3552.9	3536.8	3540.8	3544.8
30°	4631.2	4490.4	4164.4	3882.8	3645.4	3512.6	3436.2	3424.1	3420.1	3428.1	3432.1
32.5°	4743.8	4595.0	4212.7	3854.6	3564.9	3395.9	3299.4	3295.3	3283.3	3283.3	3283.3
35°	4884.7	4695.6	4257.0	3850.6	3484.5	3271.2	3166.6	3154.5	3126.4	3114.3	3114.3
37.5°	5065.7	4852.5	4309.3	3822.4	3416.1	3150.5	3025.8	2985.5	2953.3	2949.3	2949.3
40°	5287.0	5029.5	4385.7	3790.2	3343.6	3025.8	2860.8	2792.4	2796.4	2812.5	2812.5
42.5°	5548.6	5246.8	4482.3	3774.2	3239.0	2897.0	2667.7	2587.2	2615.4	2631.4	2635.5
45°	5854.4	5504.3	4590.9	3754.0	3142.4	2752.2	2462.5	2361.9	2373.9	2378.0	2382.0
47.5°	6208.4	5790.0	4703.6	3737.9	3033.8	2571.1	2237.1	2104.4	2100.3	2076.2	2084.2
50°	6578.6	6091.8	4820.3	3709.8	2901.0	2357.8	1999.7	1842.8	1810.6	1774.4	1778.4
52.5°	6972.9	6401.6	4928.9	3665.5	2736.1	2140.6	1774.4	1605.4	1541.0	1500.8	1508.9
55°	7407.5	6719.4	5033.5	3597.1	2563.0	1923.3	1573.2	1400.2	1319.7	1287.6	1291.6
57.5°	7805.8	7025.2	5110.0	3512.6	2373.9	1726.1	1396.2	1227.2	1174.9	1170.9	1174.9
60°	8192.1	7282.7	5142.2	3395.9	2180.8	1545.1	1231.2	1102.5	1066.3	1086.4	1090.4
62.5°	8518.0	7447.7	5126.1	3239.0	1983.6	1372.1	1098.4	1005.9	981.8	1022.0	1026.0
65°	8707.1	7500.0	5013.4	3013.7	1770.4	1203.1	973.7	873.1	861.1	885.2	897.3
67.5°	8457.6	7174.1	4707.6	2703.9	1533.0	1046.1	853.0	772.5	752.4	772.5	772.5
70°	7496.0	6216.5	3983.4	2213.0	1271.5	893.2	740.3	684.0	667.9	684.0	680.0
72.5°	6244.7	5170.3	3138.4	1726.1	1001.9	752.4	643.8	591.5	575.4	559.3	551.2
75°	4844.4	3927.1	2277.4	1267.4	756.4	603.5	539.2	490.9	450.6	466.7	458.7
77.5°	3548.8	2756.2	1613.5	877.1	543.2	466.7	422.5	386.3	358.1	390.3	386.3
80°	2285.4	1782.5	1078.3	587.4	374.2	325.9	309.8	289.7	317.9	414.4	422.5
82.5°	1396.2	1130.6	643.8	382.2	245.4	217.3	201.2	201.2	325.9	358.1	362.1
85°	623.7	599.5	350.1	197.2	136.8	124.7	112.7	144.9	132.8	96.6	100.6
87.5°	100.6	104.6	76.4	68.4	52.3	52.3	40.2	28.2	20.1	12.1	12.1
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)