

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: P841184

Luminaire Tested: **ARCH4-140-740-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841184
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: ARCH4-140-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

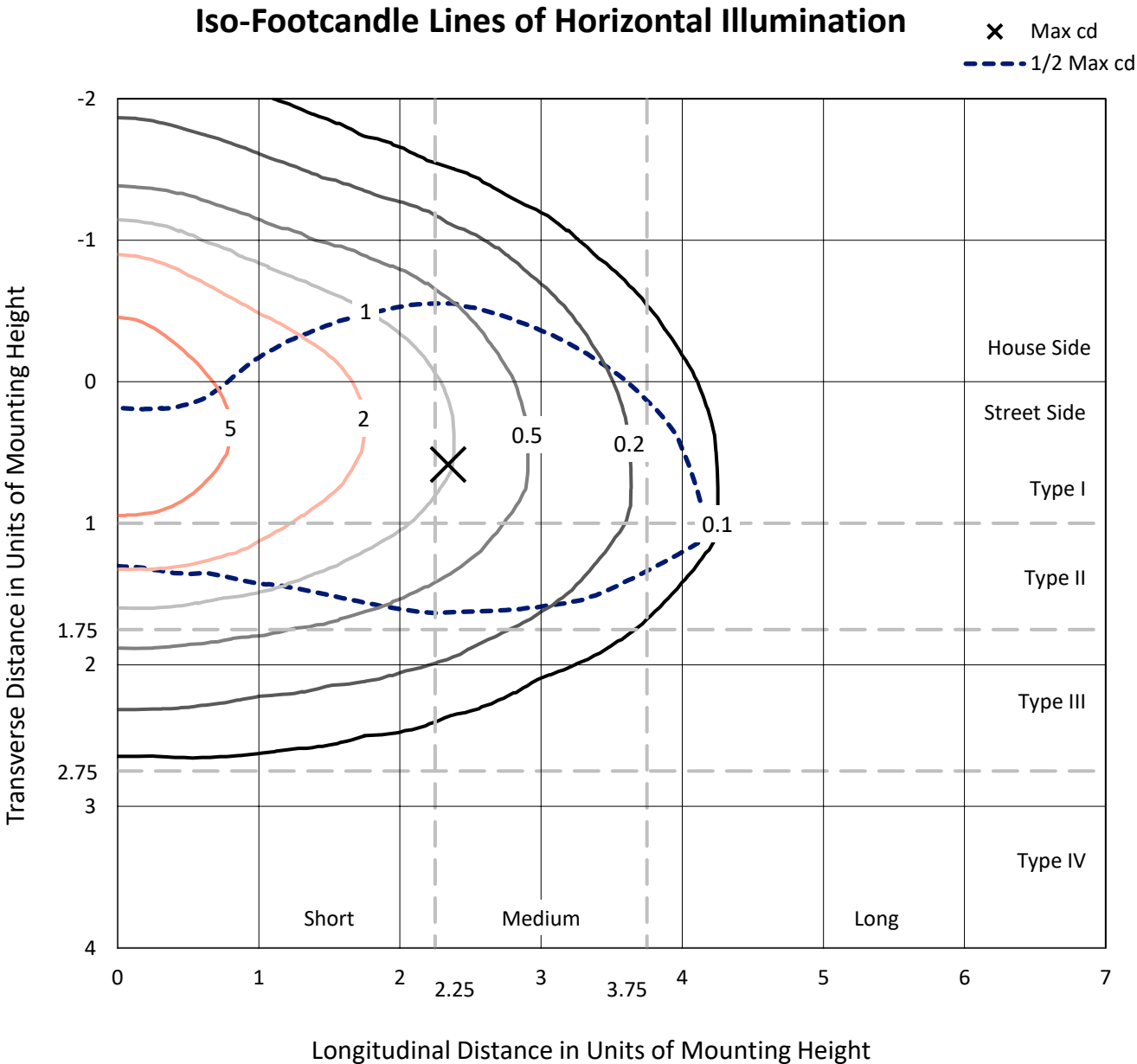
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24606 lumens
Efficiency: N/A
Efficacy: 174.1 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): 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



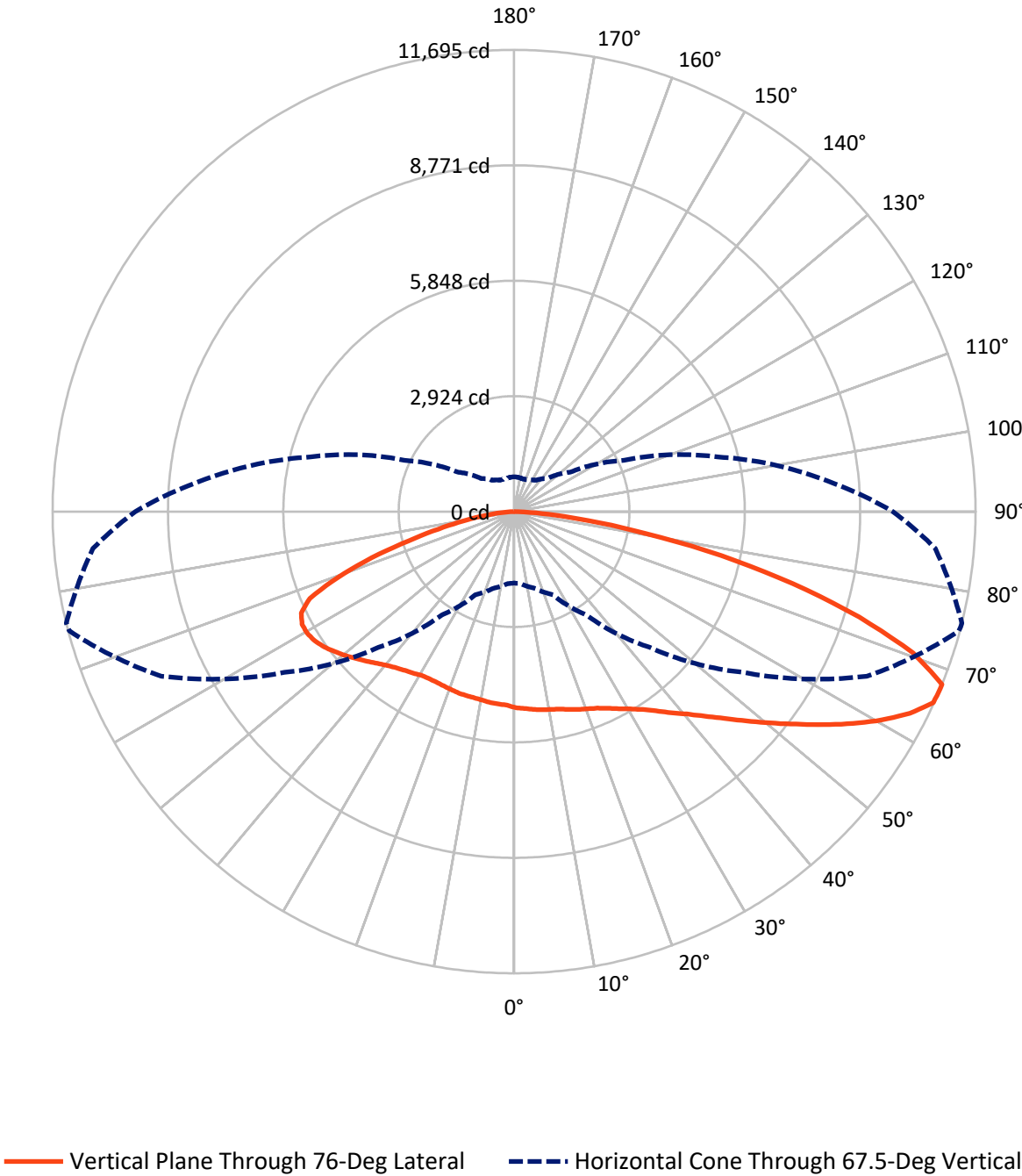
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Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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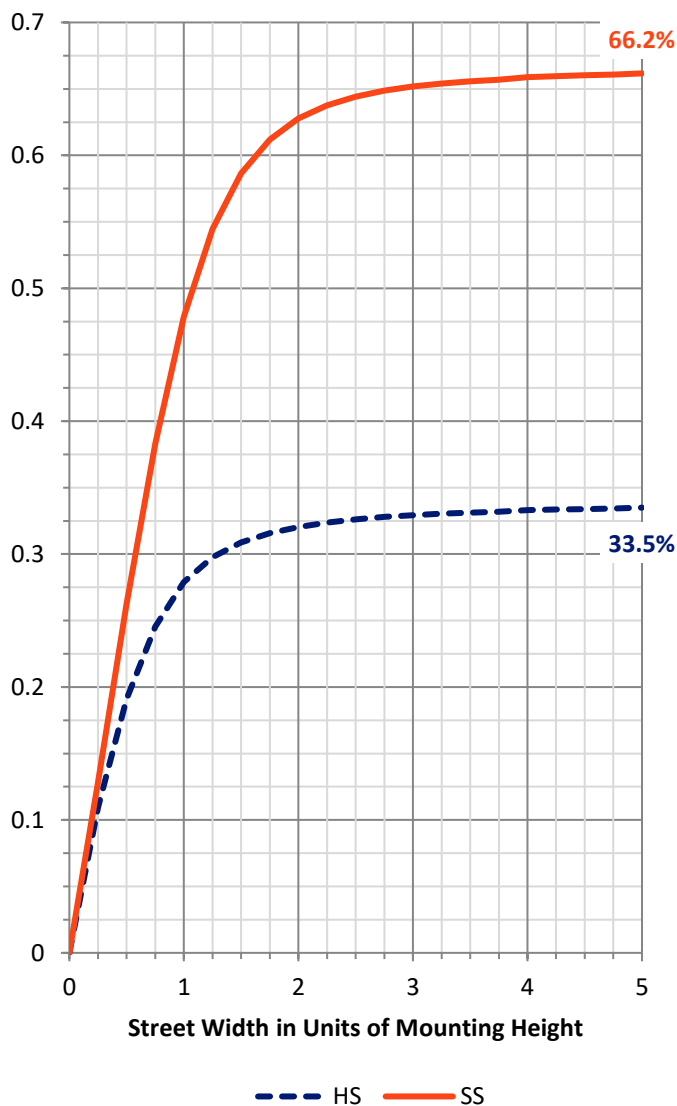
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8314.5	0.0	8314.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	16291.5	0.0	16291.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	24606.0	0.0	24606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.3	1.9
10°-20°	1465.2	6.0
20°-30°	2489.5	10.1
30°-40°	3542.2	14.4
40°-50°	4473.7	18.2
50°-60°	4843.6	19.7
60°-70°	4505.1	18.3
70°-80°	2419.6	9.8
80°-90°	387.7	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°	24606.0	100.0
0°-180°	24606.0	100.0

Coefficient of Utilization



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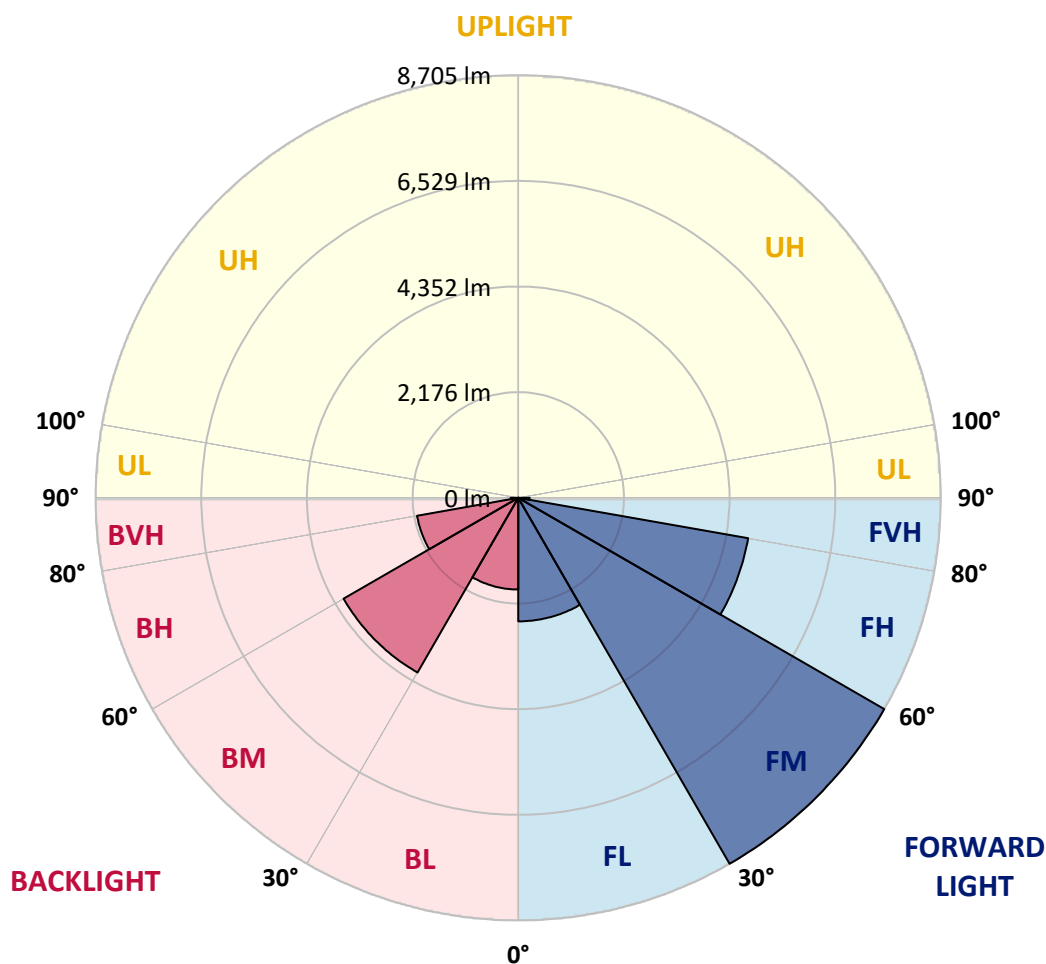
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2544.5	10.3			
FM	(30°-60°)	8704.7	35.4			
FH	(60°-80°)	4807.8	19.5			G2/5000
FVH	(80°-90°)	234.5	1.0			G3/500
BL	(0°-30°)	1889.5	7.7	B3/2500		
BM	(30°-60°)	4154.9	16.9	B3/5000		
BH	(60°-80°)	2116.9	8.6	B3/2500		G3/2500
BVH	(80°-90°)	153.2	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°	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4
2.5°	5121.1	5112.0	5075.4	5080.0	5080.0	5075.4	5020.6	4997.8	4997.8	4993.2	4942.9
5°	5303.8	5290.1	5249.0	5239.9	5221.6	5198.8	5112.0	5061.7	5038.9	5034.3	4965.8
7.5°	5518.6	5500.3	5450.0	5422.6	5376.9	5317.6	5207.9	5130.2	5075.4	5070.9	4974.9
10°	5733.3	5715.0	5655.6	5605.4	5541.4	5445.5	5303.8	5189.6	5102.8	5093.7	4979.5
12.5°	5989.1	5970.8	5897.7	5833.8	5737.8	5609.9	5422.6	5267.3	5148.5	5134.8	4993.2
15°	6258.6	6231.2	6158.1	6085.0	5966.3	5801.8	5577.9	5372.4	5221.6	5198.8	5034.3
17.5°	6482.5	6445.9	6386.5	6313.5	6181.0	5989.1	5733.3	5477.4	5290.1	5271.9	5075.4
20°	6674.3	6646.9	6583.0	6514.5	6372.8	6162.7	5879.5	5582.5	5354.1	5331.3	5107.4
22.5°	6857.1	6820.5	6784.0	6733.7	6578.4	6345.4	6048.5	5710.4	5436.3	5408.9	5148.5
25°	7067.2	7026.1	7012.4	6985.0	6802.3	6564.7	6254.1	5870.3	5550.5	5518.6	5221.6
27.5°	7327.6	7281.9	7254.5	7254.5	7035.2	6788.6	6473.3	6057.6	5683.0	5655.6	5313.0
30°	7601.7	7546.9	7505.8	7505.8	7259.1	7012.4	6688.1	6244.9	5833.8	5801.8	5431.8
32.5°	7843.8	7789.0	7743.3	7738.8	7482.9	7236.3	6911.9	6450.5	6016.5	5975.4	5577.9
35°	8031.1	7980.9	7939.8	7948.9	7706.8	7464.7	7163.2	6724.6	6244.9	6199.2	5769.8
37.5°	8145.4	8127.1	8104.2	8136.2	7912.4	7684.0	7423.6	6989.6	6505.3	6464.2	6007.4
40°	8204.7	8191.0	8282.4	8323.5	8086.0	7880.4	7684.0	7263.7	6788.6	6742.9	6281.5
42.5°	8291.5	8405.8	8442.3	8433.2	8213.9	8031.1	7921.5	7560.6	7122.0	7080.9	6610.4
45°	7980.9	7953.5	8154.5	8264.1	8223.0	8127.1	8145.4	7916.9	7510.4	7469.2	6989.6
47.5°	7565.2	7528.6	7642.8	7912.4	8072.3	8163.6	8346.4	8287.0	7958.1	7921.5	7432.7
50°	6688.1	6738.3	7163.2	7524.1	7839.3	8154.5	8515.4	8684.4	8451.4	8414.9	7907.8
52.5°	5715.0	5765.2	6208.4	7039.8	7556.0	8086.0	8638.7	9081.9	8985.9	8944.8	8414.9
55°	5006.9	5116.5	5619.1	6222.1	7154.0	7871.3	8711.8	9488.4	9561.5	9525.0	8967.7
57.5°	4303.4	4385.6	4764.8	5299.3	6605.8	7496.7	8707.3	9867.6	10164.6	10128.0	9529.6
60°	3476.5	3581.6	3883.1	4458.7	5874.9	7049.0	8579.3	10164.6	10744.7	10717.3	10073.2
62.5°	2910.0	2942.0	3156.7	3654.7	4933.8	6482.5	8291.5	10324.5	11270.1	11251.8	10562.0
65°	2343.6	2348.1	2544.6	2960.3	4024.7	5779.0	7802.7	10265.1	11667.5	11676.7	10913.8
67.5°	1809.1	1831.9	2010.1	2325.3	3197.8	4865.3	7103.8	9863.1	11672.1	11695.0	10712.8
70°	1251.7	1270.0	1539.5	1845.6	2471.5	3878.5	6158.1	8798.6	10712.8	10731.0	9602.7
72.5°	881.7	890.8	1178.6	1475.6	1932.4	2923.7	4646.0	7277.4	9132.1	9145.8	8076.8
75°	657.8	667.0	831.4	1119.2	1480.1	2023.8	3175.0	5573.4	7295.6	7295.6	6377.4
77.5°	466.0	470.5	539.1	772.1	986.8	1365.9	1909.6	3650.1	5354.1	5363.2	4646.0
80°	315.2	319.8	351.8	520.8	616.7	740.1	1037.0	1914.1	3376.0	3389.7	2951.1
82.5°	164.5	173.6	196.4	265.0	310.6	411.2	534.5	973.1	1868.5	1905.0	1772.5
85°	64.0	64.0	73.1	86.8	114.2	159.9	246.7	370.0	845.1	872.6	781.2
87.5°	22.8	22.8	27.4	27.4	32.0	36.5	41.1	54.8	95.9	95.9	91.4
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°	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4	4970.4
2.5°	4924.7	4924.7	4901.8	4911.0	4906.4	4897.3	4888.1	4901.8	4888.1	4856.1	4851.6
5°	4933.8	4924.7	4888.1	4883.6	4869.9	4851.6	4828.7	4837.9	4815.0	4787.6	4783.1
7.5°	4938.4	4920.1	4869.9	4851.6	4824.2	4787.6	4751.1	4751.1	4719.1	4691.7	4687.1
10°	4929.2	4906.4	4837.9	4801.3	4751.1	4696.3	4646.0	4632.3	4595.8	4563.8	4563.8
12.5°	4933.8	4901.8	4815.0	4755.6	4687.1	4618.6	4554.6	4536.4	4504.4	4472.4	4467.8
15°	4961.2	4915.5	4805.9	4728.2	4627.7	4550.1	4481.5	4467.8	4440.4	4417.6	4417.6
17.5°	4988.6	4929.2	4792.2	4682.6	4559.2	4472.4	4408.5	4408.5	4390.2	4376.5	4376.5
20°	5002.3	4933.8	4764.8	4618.6	4477.0	4385.6	4326.2	4335.4	4330.8	4326.2	4326.2
22.5°	5034.3	4942.9	4741.9	4559.2	4390.2	4294.2	4239.4	4253.1	4248.6	4248.6	4253.1
25°	5084.6	4965.8	4723.7	4504.4	4307.9	4202.9	4143.5	4152.6	4152.6	4152.6	4152.6
27.5°	5153.1	5011.5	4719.1	4454.1	4225.7	4106.9	4033.8	4033.8	4015.6	4020.1	4024.7
30°	5258.2	5098.3	4728.2	4408.5	4138.9	3988.2	3901.4	3887.7	3883.1	3892.2	3896.8
32.5°	5386.1	5217.0	4783.1	4376.5	4047.6	3855.7	3746.0	3741.5	3727.8	3727.8	3727.8
35°	5546.0	5331.3	4833.3	4371.9	3956.2	3714.1	3595.3	3581.6	3549.6	3535.9	3535.9
37.5°	5751.5	5509.4	4892.7	4339.9	3878.5	3577.0	3435.4	3389.7	3353.2	3348.6	3348.6
40°	6002.8	5710.4	4979.5	4303.4	3796.3	3435.4	3248.1	3170.4	3175.0	3193.3	3193.3
42.5°	6299.7	5957.1	5089.1	4285.1	3677.5	3289.2	3028.8	2937.4	2969.4	2987.7	2992.3
45°	6646.9	6249.5	5212.5	4262.3	3567.9	3124.7	2795.8	2681.6	2695.3	2699.9	2704.5
47.5°	7049.0	6573.8	5340.4	4244.0	3444.5	2919.2	2540.0	2389.2	2384.7	2357.3	2366.4
50°	7469.2	6916.5	5472.9	4212.0	3293.8	2677.0	2270.5	2092.3	2055.8	2014.6	2019.2
52.5°	7916.9	7268.2	5596.2	4161.8	3106.5	2430.4	2014.6	1822.8	1749.7	1704.0	1713.1
55°	8410.3	7629.1	5715.0	4084.1	2910.0	2183.7	1786.2	1589.8	1498.4	1461.9	1466.4
57.5°	8862.6	7976.3	5801.8	3988.2	2695.3	1959.8	1585.2	1393.3	1334.0	1329.4	1334.0
60°	9301.1	8268.7	5838.3	3855.7	2476.0	1754.2	1397.9	1251.7	1210.6	1233.5	1238.0
62.5°	9671.2	8456.0	5820.1	3677.5	2252.2	1557.8	1247.2	1142.1	1114.7	1160.4	1164.9
65°	9885.9	8515.4	5692.2	3421.7	2010.1	1365.9	1105.5	991.3	977.6	1005.0	1018.7
67.5°	9602.7	8145.4	5345.0	3069.9	1740.5	1187.8	968.5	877.1	854.3	877.1	877.1
70°	8510.8	7058.1	4522.7	2512.6	1443.6	1014.2	840.6	776.6	758.3	776.6	772.1
72.5°	7090.1	5870.3	3563.3	1959.8	1137.5	854.3	730.9	671.5	653.3	635.0	625.9
75°	5500.3	4458.7	2585.7	1439.0	858.8	685.3	612.2	557.3	511.7	529.9	520.8
77.5°	4029.3	3129.3	1831.9	995.9	616.7	529.9	479.7	438.6	406.6	443.1	438.6
80°	2594.8	2023.8	1224.3	667.0	424.9	370.0	351.8	328.9	360.9	470.5	479.7
82.5°	1585.2	1283.7	730.9	434.0	278.7	246.7	228.4	228.4	370.0	406.6	411.2
85°	708.1	680.7	397.4	223.8	155.3	141.6	127.9	164.5	150.8	109.6	114.2
87.5°	114.2	118.8	86.8	77.7	59.4	59.4	45.7	32.0	22.8	13.7	13.7
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)