

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: P968909

Luminaire Tested: **NVN-SB5C-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5C-827-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

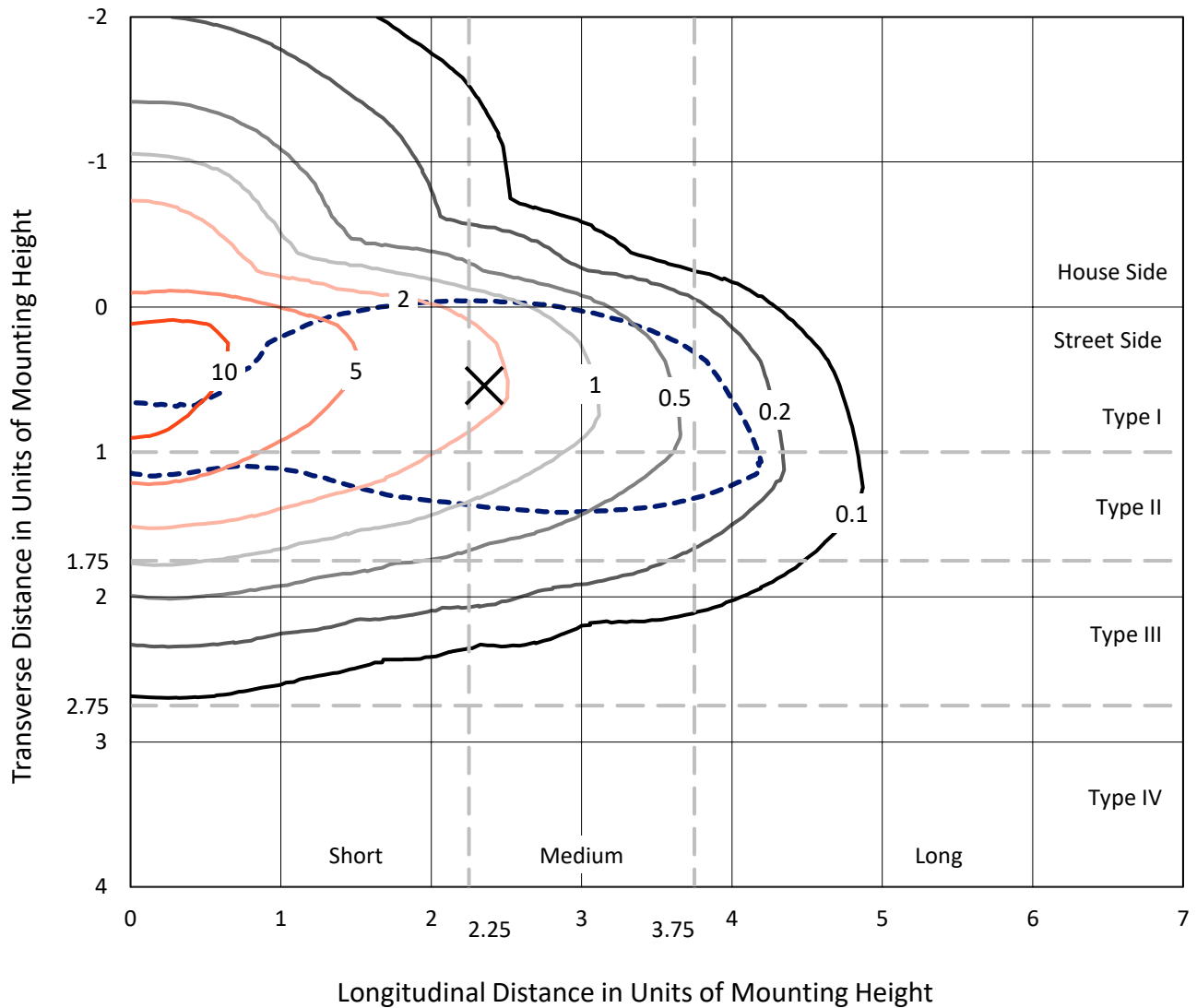
Lumens per Lamp: N/A  
Luminaire Lumens: 34344.7 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

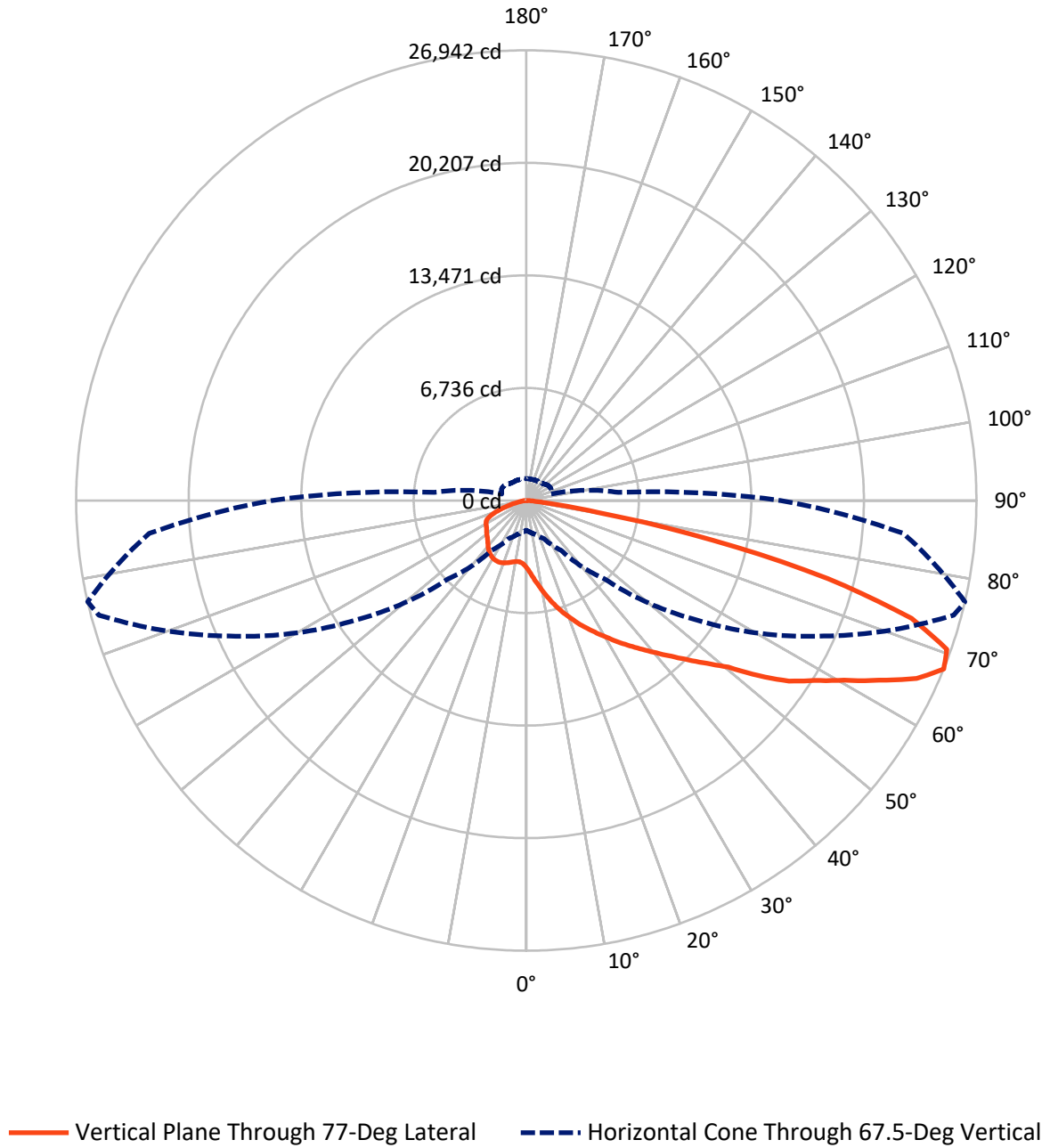
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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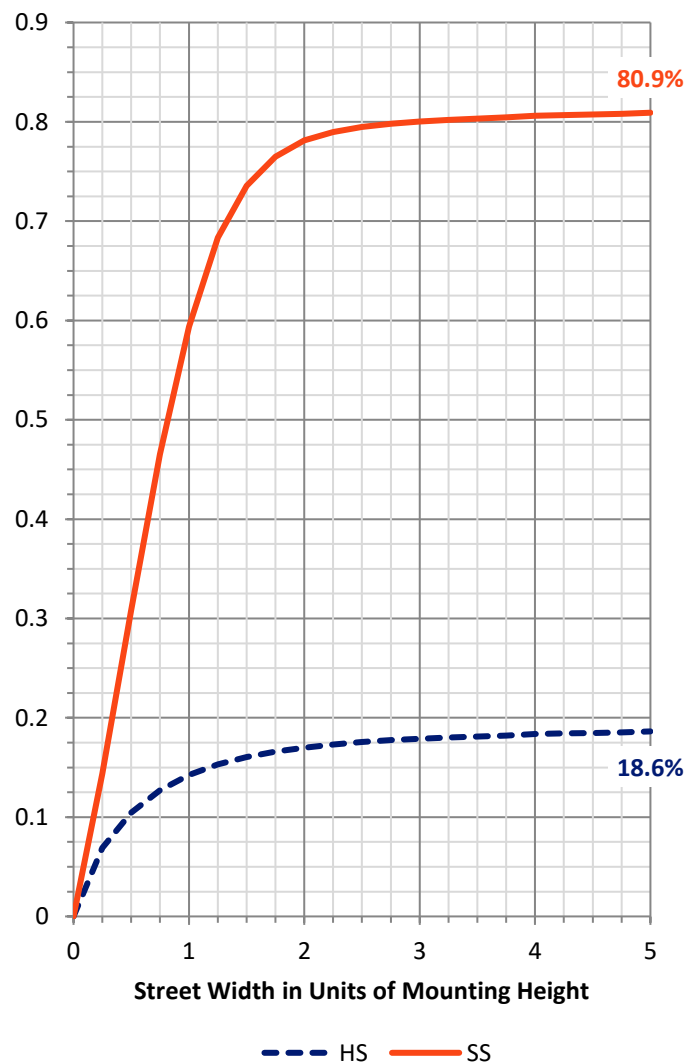
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6496.6	0.0	6496.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	27848.0	0.0	27848.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	34344.7	0.0	34344.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.9	1.3
10°-20°	1551.7	4.5
20°-30°	2929.8	8.5
30°-40°	4719.9	13.7
40°-50°	6456.0	18.8
50°-60°	7282.4	21.2
60°-70°	6797.2	19.8
70°-80°	3726.0	10.8
80°-90°	449.4	1.3
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°	34344.7	100.0
0°-180°	34344.7	100.0

**Coefficient of Utilization**



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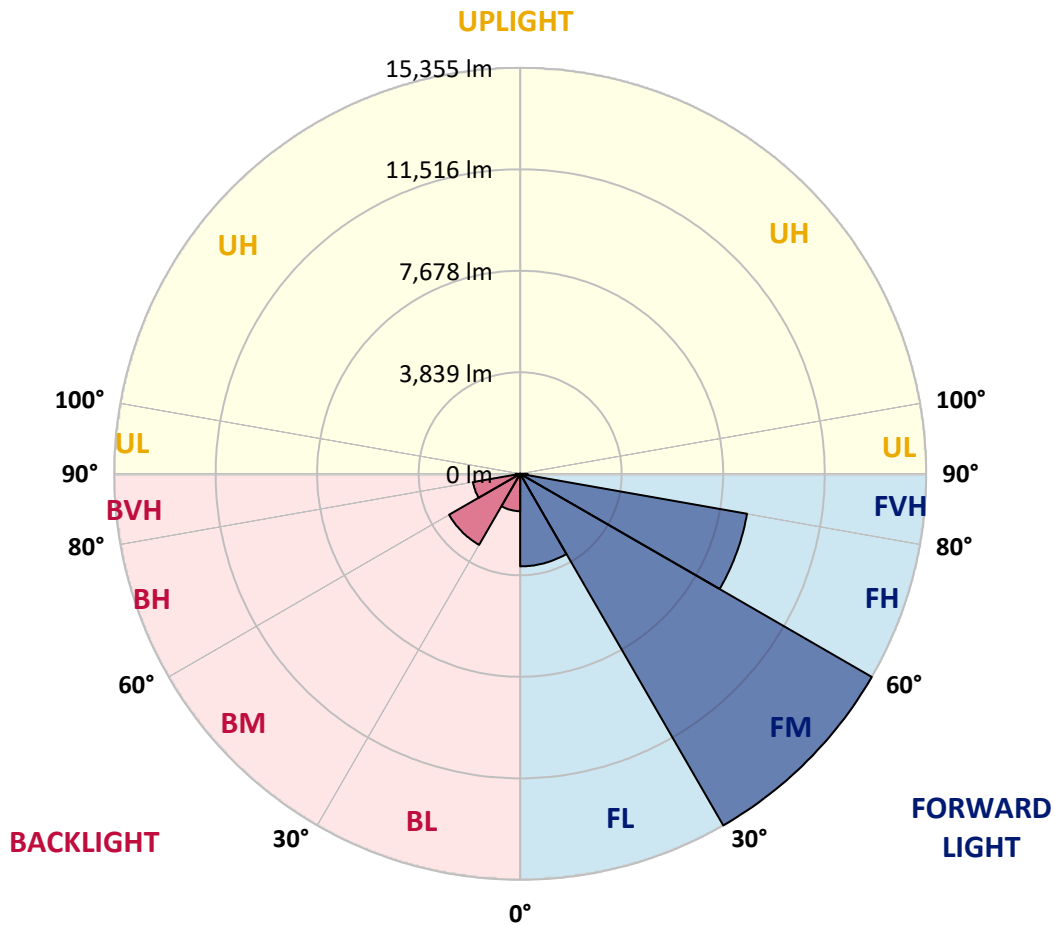
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3501.0	10.2			
FM (30°-60°)	15355.1	44.7			
FH (60°-80°)	8710.8	25.4			G4/12000
FVH (80°-90°)	281.1	0.8			G3/500
BL (0°-30°)	1412.5	4.1	B3/2500		
BM (30°-60°)	3103.3	9.0	B3/5000		
BH (60°-80°)	1812.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	168.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7
2.5°	5045.6	5081.0	5036.6	5036.6	4887.7	4809.7	4660.9	4547.4	4343.5	4308.1	4173.3
5°	5963.9	6008.2	5946.1	5919.6	5744.0	5582.8	5332.8	5086.4	4722.9	4685.7	4368.3
7.5°	6674.8	6731.5	6676.5	6648.3	6492.1	6311.3	6018.8	5674.9	5162.5	5089.8	4630.7
10°	7254.5	7263.4	7245.6	7256.3	7134.0	6985.1	6685.5	6284.8	5644.8	5545.5	4948.1
12.5°	7582.5	7623.2	7658.7	7722.6	7701.2	7609.1	7339.6	6860.9	6155.3	6027.7	5293.7
15°	7736.7	7807.6	7887.5	8034.6	8153.4	8176.4	7970.7	7479.6	6674.8	6520.5	5643.0
17.5°	7791.7	7859.1	7985.0	8197.6	8453.0	8625.0	8532.7	8080.7	7188.9	7011.6	6010.0
20°	8070.0	8089.5	8165.8	8367.9	8644.4	8929.9	8999.0	8658.6	7697.7	7497.4	6389.3
22.5°	8665.8	8626.7	8648.0	8740.2	8938.7	9215.3	9373.1	9169.2	8220.7	7990.3	6772.3
25°	9649.7	9536.2	9422.7	9316.3	9417.4	9573.4	9752.5	9679.8	8768.6	8476.0	7158.8
27.5°	10892.4	10754.1	10504.2	10154.9	10032.6	10087.5	10167.3	10153.1	9275.5	8979.5	7557.6
30°	12115.7	11954.4	11656.5	11151.3	10828.6	10683.3	10622.9	10582.2	9826.9	9511.4	7960.2
32.5°	13092.5	12964.9	12672.4	12106.8	11638.8	11390.6	11190.2	11044.9	10403.1	10087.5	8385.6
35°	13947.1	13828.3	13493.2	12876.3	12367.4	12103.3	11840.9	11530.6	11002.3	10683.3	8843.0
37.5°	14727.1	14608.3	14149.1	13507.3	12995.1	12812.4	12578.4	12051.8	11603.3	11302.0	9327.0
40°	15219.9	15193.4	14764.3	14037.5	13505.6	13415.2	13337.2	12656.4	12270.0	11989.8	9858.9
42.5°	15345.8	15404.3	15063.9	14466.4	13959.5	13886.8	14069.4	13340.7	13018.1	12750.4	10461.7
45°	15042.7	15211.1	14987.8	14581.8	14282.1	14243.1	14718.3	14088.8	13846.0	13601.3	11188.5
47.5°	14275.0	14560.4	14468.3	14411.5	14369.0	14537.4	15289.1	14883.1	14783.8	14571.1	12018.2
50°	12725.6	13266.3	13427.6	13785.7	14197.0	14766.1	15808.6	15750.0	15879.5	15665.0	13028.7
52.5°	10046.7	10791.4	11727.4	12624.5	13668.7	14689.9	16379.4	16994.6	17540.6	17423.6	14635.0
55°	8293.4	8628.4	9348.3	10993.4	12644.0	14369.0	16636.5	17999.8	19189.3	19084.8	15852.9
57.5°	6946.0	7245.6	7688.8	9062.8	11094.5	13640.3	16796.1	18613.2	20318.7	20308.0	17054.9
60°	5501.2	5818.5	6272.4	7245.6	9284.4	12381.6	16760.6	19311.7	21760.0	21848.7	18521.0
62.5°	3870.1	4219.4	4722.9	5630.6	7435.4	10750.6	16037.3	19816.9	23456.6	23697.7	20285.0
65°	2544.0	2774.5	3153.9	3937.5	5540.1	8653.3	14656.2	19882.5	25272.0	25679.8	21940.8
67.5°	1783.5	1872.2	2095.5	2521.0	3652.1	6635.7	12456.1	19203.6	26482.9	26942.0	22658.9
70°	1391.6	1436.0	1549.5	1719.6	2294.1	4462.2	9545.0	17437.8	26224.0	26702.7	21909.0
72.5°	1202.0	1244.6	1287.1	1308.4	1538.8	2755.0	6465.6	14579.9	23786.4	24110.8	19049.3
75°	1090.3	1101.0	1136.4	1129.3	1173.6	1787.1	3731.8	10622.9	18767.4	18655.7	14062.3
77.5°	916.6	930.7	989.2	980.4	1042.4	1221.5	1937.8	6855.6	12167.1	11408.4	7827.1
80°	776.5	783.6	847.5	836.8	905.9	884.7	989.2	3494.3	5160.8	4371.8	2256.8
82.5°	269.5	333.3	647.1	666.6	691.4	535.4	570.8	1425.4	1576.0	1207.3	473.3
85°	131.2	140.0	329.7	468.0	466.3	269.5	278.3	508.8	496.4	390.0	157.7
87.5°	21.3	26.5	39.1	182.7	145.3	70.9	95.7	99.3	102.8	88.7	35.5
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°	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7	4029.7
2.5°	4074.1	3985.4	3799.3	3627.3	3492.5	3363.1	3290.5	3228.3	3192.9	3185.8	3185.8
5°	4183.9	4001.3	3662.7	3377.3	3191.1	3052.9	2980.2	2934.1	2911.0	2896.9	2895.1
7.5°	4341.7	4074.1	3591.8	3267.4	3072.3	2973.1	2935.8	2928.7	2927.0	2928.7	2934.1
10°	4559.8	4192.8	3584.7	3240.7	3077.7	3022.7	3021.0	3022.7	3029.8	3031.5	3033.4
12.5°	4795.6	4315.1	3613.1	3263.8	3145.0	3114.9	3109.5	3107.8	3113.1	3116.7	3118.5
15°	5052.6	4476.5	3661.0	3313.4	3219.5	3187.5	3182.3	3171.7	3169.8	3168.1	3166.3
17.5°	5316.8	4636.0	3714.1	3366.6	3267.4	3223.0	3203.5	3178.7	3159.3	3153.9	3159.3
20°	5584.5	4793.8	3751.4	3393.3	3270.9	3208.9	3169.8	3127.3	3093.7	3074.2	3081.3
22.5°	5870.0	4958.6	3774.4	3386.2	3239.0	3153.9	3083.0	3033.4	2981.9	2948.2	2950.1
25°	6148.3	5102.2	3772.6	3348.9	3177.0	3068.8	2978.4	2914.6	2843.7	2808.2	2808.2
27.5°	6416.0	5231.7	3728.3	3283.3	3088.3	2967.8	2859.6	2783.4	2714.2	2680.6	2678.7
30°	6692.5	5339.8	3659.1	3187.5	2983.7	2850.7	2731.9	2666.3	2604.3	2572.4	2570.6
32.5°	6967.3	5439.2	3561.7	3068.8	2863.1	2735.5	2618.5	2558.2	2521.0	2521.0	2522.7
35°	7258.0	5508.2	3432.2	2930.6	2735.5	2613.2	2521.0	2485.5	2482.0	2460.7	2455.4
37.5°	7564.8	5552.6	3274.5	2788.7	2609.6	2494.4	2466.0	2423.5	2388.0	2341.9	2334.8
40°	7887.5	5596.9	3084.7	2641.5	2476.7	2412.8	2400.4	2343.7	2242.7	2129.2	2113.2
42.5°	8279.2	5627.0	2887.9	2494.4	2336.6	2315.4	2333.1	2235.5	2074.2	1989.1	1991.0
45°	8733.1	5676.7	2707.1	2349.0	2193.0	2193.0	2267.5	2139.8	2006.8	1953.6	1962.6
47.5°	9321.7	5791.9	2538.7	2189.5	2060.0	2095.5	2122.1	2024.6	1950.2	1884.6	1882.7
50°	10172.6	6068.5	2365.0	2028.2	1959.0	2029.9	1992.7	1935.9	1849.1	1795.9	1790.6
52.5°	11229.3	6231.6	2210.7	1882.7	1872.2	1943.1	1889.9	1836.7	1771.1	1700.2	1686.0
55°	11949.0	6261.7	2081.4	1776.4	1813.6	1806.6	1787.1	1739.2	1703.8	1609.8	1611.5
57.5°	12753.9	6322.0	1975.0	1712.6	1776.4	1698.4	1691.4	1650.6	1604.4	1540.6	1519.4
60°	13716.6	6416.0	1882.7	1687.8	1744.4	1627.5	1592.0	1576.0	1530.0	1498.0	1507.0
62.5°	14766.1	6501.1	1788.8	1691.4	1707.2	1558.3	1505.1	1499.9	1471.5	1460.8	1460.8
65°	15482.3	6268.8	1671.8	1687.8	1648.7	1487.4	1420.0	1418.3	1395.2	1391.6	1389.9
67.5°	15232.3	5533.1	1514.0	1638.2	1588.4	1416.6	1342.0	1335.0	1304.8	1306.6	1306.6
70°	13980.7	4483.6	1295.9	1515.8	1514.0	1352.7	1260.5	1237.5	1196.7	1203.8	1210.8
72.5°	11633.4	3322.3	1003.5	1311.9	1395.2	1294.2	1166.6	1129.3	1077.9	1085.0	1083.2
75°	8401.5	2258.6	730.4	998.1	1214.4	1225.1	1074.3	1010.5	948.4	959.1	962.7
77.5°	4299.2	1280.0	537.2	687.9	953.8	1113.4	991.1	905.9	891.7	991.1	976.8
80°	1402.3	641.8	372.3	482.3	625.9	911.2	868.7	771.2	767.6	790.7	679.0
82.5°	418.4	271.2	239.3	317.3	345.7	698.5	749.9	583.2	501.7	528.3	546.0
85°	143.6	131.2	136.5	157.7	164.9	409.5	524.8	386.5	365.2	402.4	397.1
87.5°	33.7	46.1	39.1	35.5	35.5	99.3	203.9	161.3	223.3	148.9	143.6
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)