

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: P971413

Luminaire Tested: **NVN-SB6D-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6D-735-U-SLL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

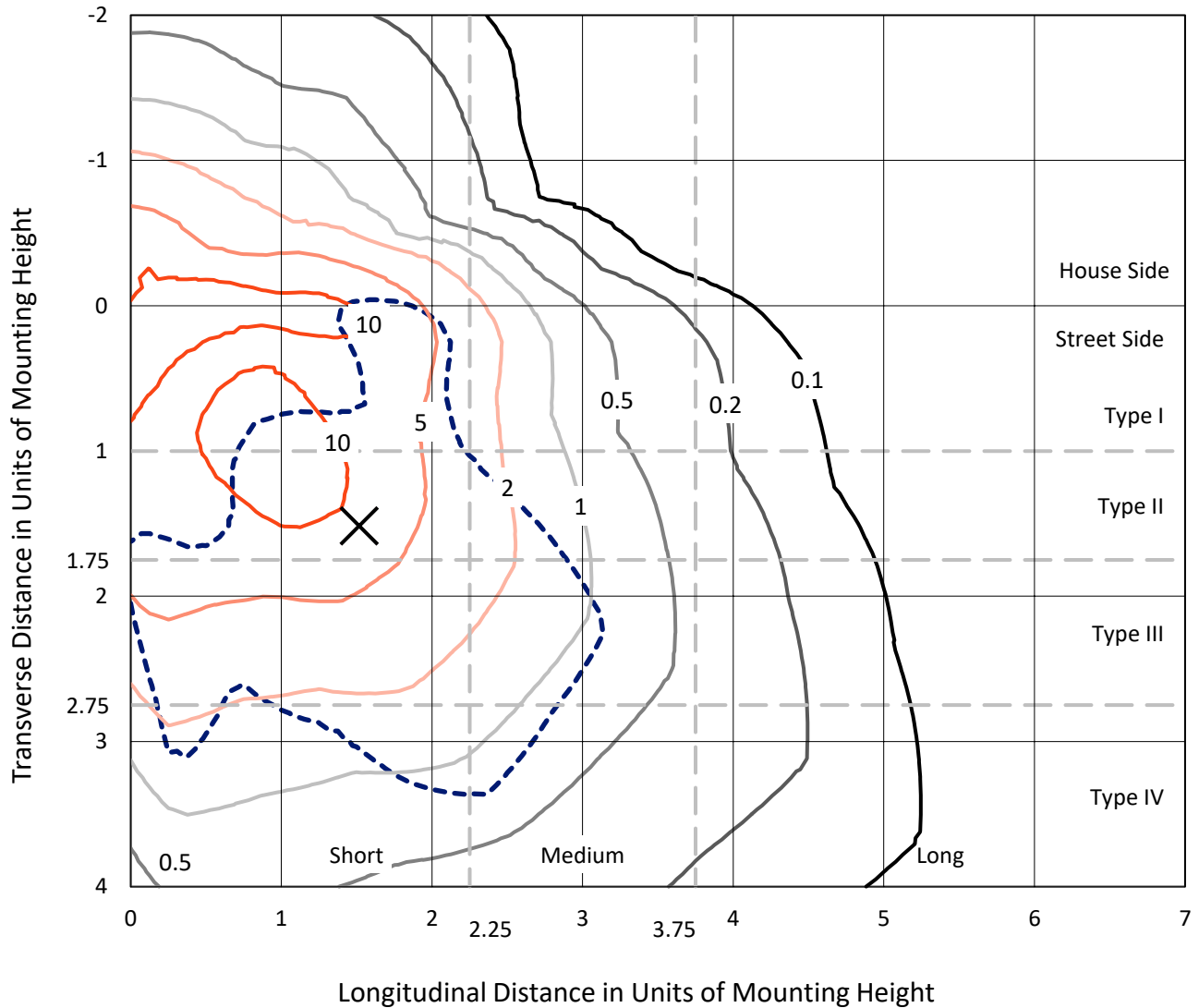
Lumens per Lamp: N/A  
Luminaire Lumens: 48272.4 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

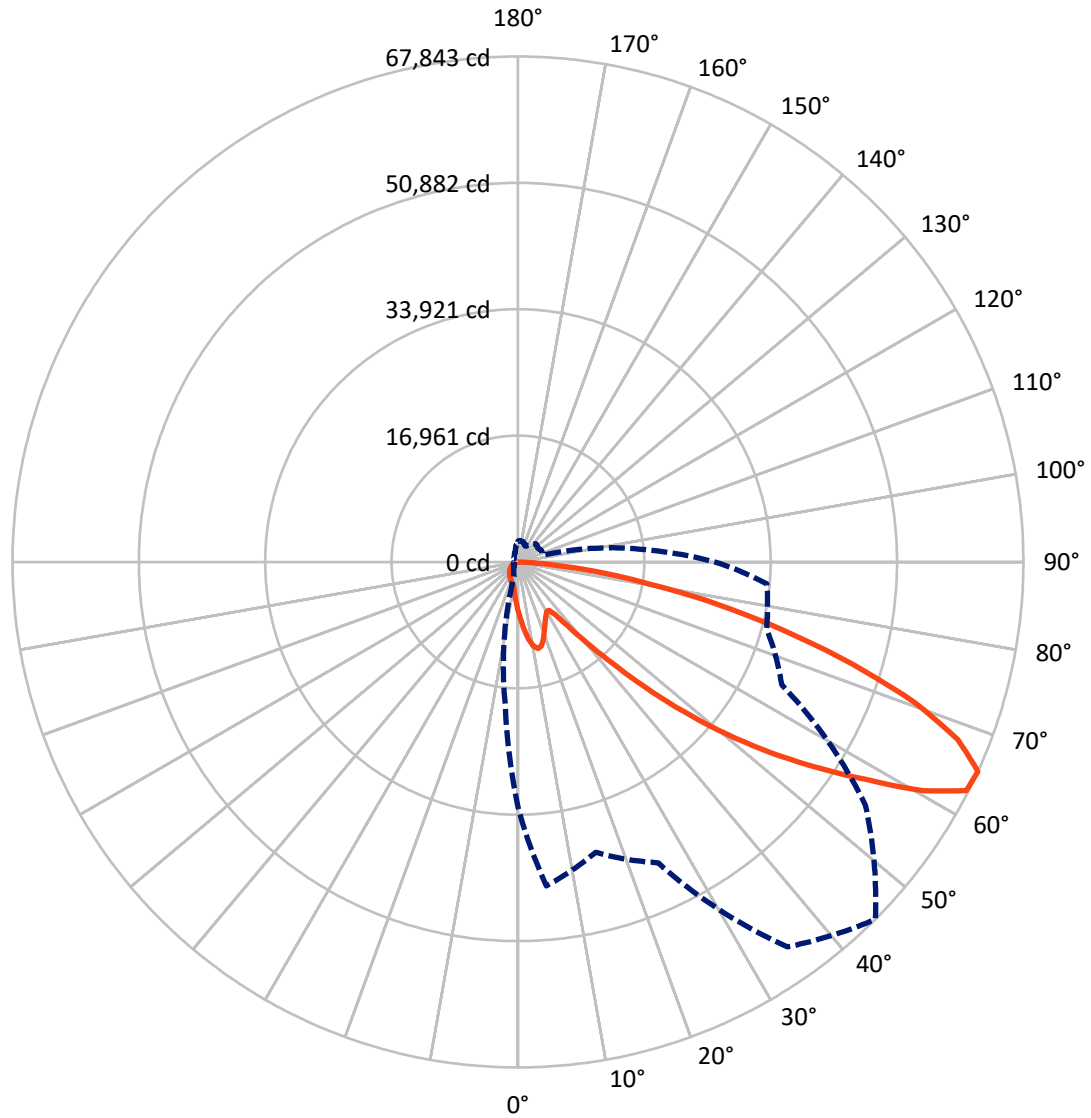
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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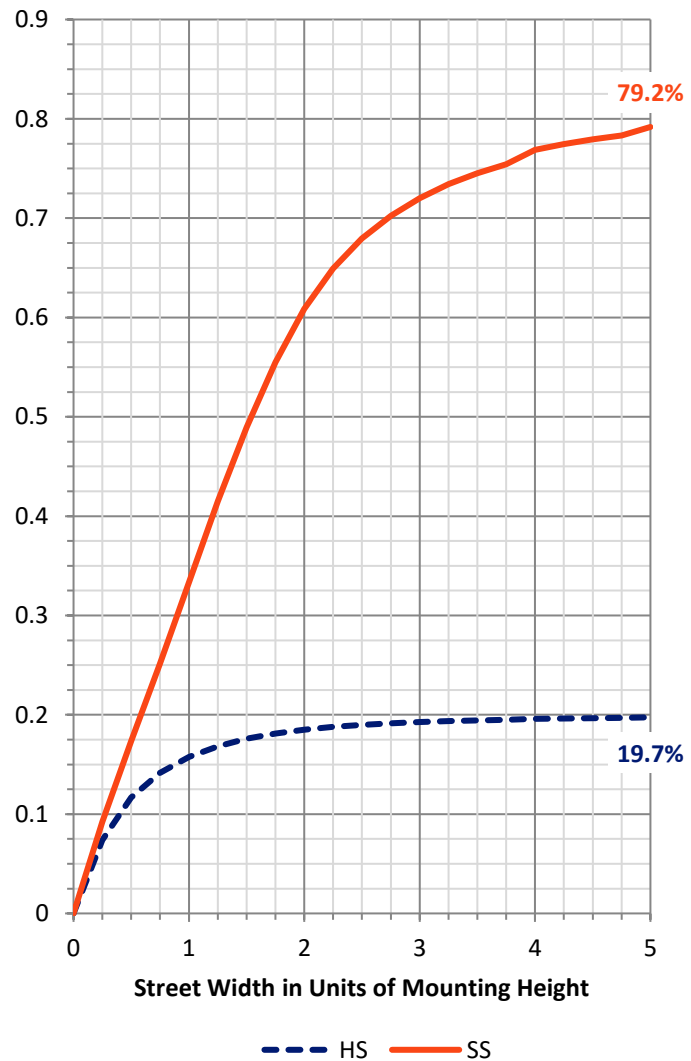
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9595.1   | 0.0    | 9595.1  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 38677.3  | 0.0    | 38677.3 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 48272.4  | 0.0    | 48272.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 658.1   | 1.4       |
| 10°-20°   | 1972.7  | 4.1       |
| 20°-30°   | 2906.2  | 6.0       |
| 30°-40°   | 3733.7  | 7.7       |
| 40°-50°   | 6038.5  | 12.5      |
| 50°-60°   | 10589.1 | 21.9      |
| 60°-70°   | 13249.9 | 27.4      |
| 70°-80°   | 7742.6  | 16.0      |
| 80°-90°   | 1381.4  | 2.9       |
| 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°    | 48272.4 | 100.0     |
| 0°-180°   | 48272.4 | 100.0     |

**Coefficient of Utilization**



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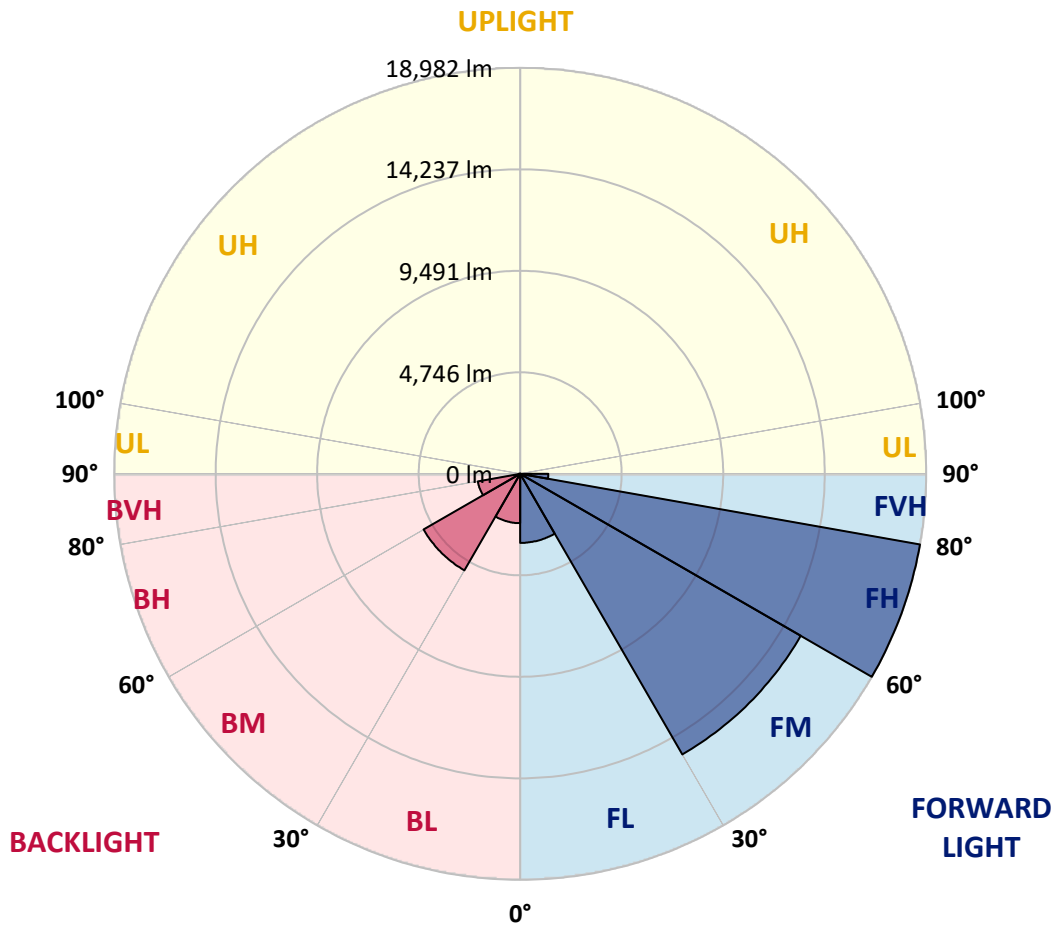
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3230.0  | 6.7       |                         |      |         |
| FM (30°-60°)   | 15148.5 | 31.4      |                         |      |         |
| FH (60°-80°)   | 18982.2 | 39.3      |                         |      | G5      |
| FVH (80°-90°)  | 1316.7  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 2307.1  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 5212.9  | 10.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 2010.3  | 4.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 64.7    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  | 6684.2  |
| 2.5°  | 7489.0  | 7545.4  | 7671.8  | 7738.3  | 7841.5  | 7848.1  | 7848.1  | 7758.3  | 7754.9  | 7572.1  | 7552.1  |
| 5°    | 8370.2  | 8503.2  | 8802.5  | 9111.7  | 9178.3  | 9194.9  | 9161.7  | 8982.1  | 8849.0  | 8493.3  | 8416.8  |
| 7.5°  | 9244.8  | 9500.8  | 9956.4  | 10368.8 | 10501.8 | 10501.8 | 10422.0 | 10129.4 | 9856.7  | 9341.2  | 9148.3  |
| 10°   | 9969.8  | 10292.3 | 10910.8 | 11373.1 | 11526.0 | 11492.8 | 11329.8 | 10960.7 | 10585.0 | 9959.7  | 9707.1  |
| 12.5° | 10448.6 | 10811.1 | 11489.4 | 11861.9 | 12018.2 | 11931.7 | 11745.6 | 11386.4 | 10990.7 | 10332.2 | 10046.2 |
| 15°   | 10688.1 | 11067.1 | 11655.8 | 11852.0 | 11808.7 | 11718.9 | 11695.7 | 11522.7 | 11223.4 | 10608.2 | 10295.6 |
| 17.5° | 10791.1 | 11143.6 | 11552.7 | 11429.6 | 11063.8 | 10993.9 | 11226.7 | 11446.3 | 11373.1 | 10847.7 | 10555.0 |
| 20°   | 10887.6 | 11183.6 | 11306.6 | 10761.2 | 10122.7 | 10059.6 | 10505.1 | 11130.4 | 11449.6 | 11070.5 | 10801.1 |
| 22.5° | 11020.6 | 11203.5 | 10950.8 | 10056.2 | 9367.8  | 9221.5  | 9713.7  | 10654.8 | 11472.8 | 11353.1 | 11083.7 |
| 25°   | 11203.5 | 11253.4 | 10558.3 | 9387.8  | 8696.1  | 8549.7  | 9008.7  | 10126.1 | 11433.0 | 11659.1 | 11429.6 |
| 27.5° | 11423.0 | 11319.9 | 10182.6 | 8829.1  | 8160.6  | 8024.3  | 8483.2  | 9617.3  | 11319.9 | 11965.0 | 11802.1 |
| 30°   | 11709.0 | 11406.3 | 9810.1  | 8396.8  | 7778.2  | 7678.5  | 8120.8  | 9178.3  | 11180.2 | 12354.1 | 12264.3 |
| 32.5° | 11998.2 | 11442.9 | 9464.2  | 8144.0  | 7691.8  | 7728.4  | 8090.8  | 8942.2  | 11027.3 | 12726.5 | 12769.8 |
| 35°   | 12310.9 | 11559.3 | 9294.7  | 8393.4  | 8413.4  | 8732.7  | 8882.3  | 9161.7  | 11004.0 | 13232.0 | 13401.6 |
| 37.5° | 12736.5 | 11818.7 | 9497.5  | 9633.9  | 10325.5 | 10987.3 | 10864.3 | 10235.8 | 11273.4 | 13986.9 | 14302.8 |
| 40°   | 13348.4 | 12274.3 | 10382.1 | 11745.6 | 13165.5 | 14239.6 | 13770.8 | 12187.9 | 12098.1 | 15074.4 | 15546.6 |
| 42.5° | 14239.6 | 12999.3 | 11951.7 | 14326.1 | 16733.7 | 18502.9 | 17245.8 | 14705.2 | 13541.3 | 16627.3 | 17229.2 |
| 45°   | 15556.5 | 14173.1 | 13850.5 | 17049.6 | 21133.3 | 23920.0 | 21306.3 | 17388.8 | 15563.2 | 18978.4 | 19450.6 |
| 47.5° | 17382.2 | 15899.1 | 15629.7 | 19919.5 | 26480.7 | 30085.5 | 25808.9 | 19876.3 | 17864.4 | 22184.2 | 22293.9 |
| 50°   | 19806.5 | 18223.6 | 17315.6 | 23058.7 | 32343.5 | 36370.6 | 30308.2 | 22277.2 | 20501.4 | 26101.5 | 25975.1 |
| 52.5° | 23005.5 | 21465.9 | 19281.1 | 26048.3 | 38372.5 | 42522.6 | 34827.6 | 24385.6 | 23773.7 | 30647.5 | 30388.1 |
| 55°   | 27368.5 | 26344.3 | 21968.0 | 28901.6 | 44398.3 | 48711.4 | 39170.6 | 26374.3 | 28096.8 | 36048.0 | 34478.4 |
| 57.5° | 32782.4 | 33514.0 | 25842.2 | 32210.4 | 49815.4 | 55089.6 | 43533.6 | 29154.3 | 33710.2 | 42087.0 | 36852.7 |
| 60°   | 36274.1 | 43048.2 | 33261.2 | 37102.2 | 55970.8 | 62302.6 | 49512.8 | 34441.8 | 39609.6 | 44251.9 | 36400.5 |
| 62.5° | 35429.4 | 46080.9 | 42146.9 | 43347.4 | 61630.8 | 67546.8 | 55372.2 | 39752.6 | 40720.3 | 41062.8 | 32915.4 |
| 65°   | 32839.0 | 43633.4 | 40334.6 | 44561.2 | 63064.0 | 67842.8 | 56938.5 | 39067.6 | 34541.6 | 33524.0 | 26457.4 |
| 67.5° | 29274.0 | 40730.2 | 36028.0 | 41342.1 | 60473.6 | 63705.9 | 54022.1 | 34558.2 | 26693.5 | 25157.1 | 19194.6 |
| 70°   | 25426.5 | 37517.9 | 33201.4 | 37730.7 | 55535.2 | 56496.3 | 49063.9 | 30394.7 | 19633.6 | 16989.8 | 12317.5 |
| 72.5° | 21775.1 | 34172.5 | 31266.0 | 34029.5 | 48947.4 | 46958.8 | 42609.1 | 26713.4 | 14296.2 | 12254.3 | 8756.0  |
| 75°   | 18040.6 | 29237.5 | 28509.1 | 29633.2 | 40284.7 | 36989.1 | 35402.9 | 22117.7 | 11220.1 | 8865.6  | 6042.4  |
| 77.5° | 13920.4 | 22845.9 | 24522.0 | 23730.5 | 28356.2 | 27474.9 | 27441.7 | 16620.7 | 8197.2  | 5916.0  | 3787.7  |
| 80°   | 9527.5  | 15922.4 | 19158.0 | 16740.4 | 18403.2 | 17954.2 | 20667.8 | 11150.3 | 5945.9  | 3561.6  | 2108.3  |
| 82.5° | 5600.1  | 9693.7  | 13335.1 | 8104.2  | 10175.9 | 10445.3 | 12307.6 | 5423.8  | 3498.4  | 821.4   | 458.9   |
| 85°   | 2271.3  | 3827.7  | 5214.3  | 3172.5  | 4908.4  | 4140.2  | 4672.3  | 1523.0  | 974.4   | 20.0    | 0.0     |
| 87.5° | 571.9   | 1223.7  | 857.9   | 355.8   | 568.7   | 522.1   | 412.4   | 186.2   | 39.9    | 0.0     | 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     |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6684.2  | 6684.2  | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 |
| 2.5°  | 7422.4  | 7346.0  | 7156.3 | 6966.8 | 6813.9 | 6607.7 | 6471.3 | 6308.4 | 6152.2 | 6012.4 | 5985.8 |
| 5°    | 8207.3  | 7954.5  | 7608.7 | 7292.8 | 6970.2 | 6657.6 | 6348.3 | 6022.4 | 5723.1 | 5540.2 | 5423.8 |
| 7.5°  | 8845.8  | 8400.1  | 7941.2 | 7538.8 | 7149.8 | 6784.0 | 6374.9 | 5979.1 | 5510.3 | 5260.9 | 5034.8 |
| 10°   | 9321.2  | 8736.0  | 8134.1 | 7671.8 | 7279.4 | 6923.6 | 6577.7 | 6178.7 | 5613.4 | 5300.8 | 4961.6 |
| 12.5° | 9633.9  | 8938.8  | 8233.8 | 7705.1 | 7266.1 | 6990.1 | 6837.2 | 6680.8 | 6118.8 | 5753.0 | 5260.9 |
| 15°   | 9850.0  | 9081.8  | 8303.7 | 7628.6 | 7089.9 | 6887.1 | 7040.0 | 7219.6 | 6860.4 | 6438.1 | 5796.3 |
| 17.5° | 10086.1 | 9268.0  | 8333.6 | 7422.4 | 6747.4 | 6660.9 | 7056.6 | 7472.4 | 7455.6 | 7036.7 | 6408.2 |
| 20°   | 10335.6 | 9431.0  | 8313.7 | 7089.9 | 6331.6 | 6408.2 | 6913.6 | 7395.8 | 7598.6 | 7372.5 | 6813.9 |
| 22.5° | 10591.6 | 9587.3  | 8237.2 | 6657.6 | 5942.6 | 6182.1 | 6687.5 | 7109.8 | 7349.2 | 7279.4 | 6853.8 |
| 25°   | 10914.2 | 9806.8  | 8124.2 | 6192.0 | 5620.1 | 5952.6 | 6424.8 | 6767.4 | 6933.6 | 6930.2 | 6637.6 |
| 27.5° | 11299.9 | 10099.4 | 8064.3 | 5816.3 | 5390.6 | 5693.2 | 6112.2 | 6418.1 | 6534.6 | 6534.6 | 6301.7 |
| 30°   | 11748.9 | 10445.3 | 7997.8 | 5570.2 | 5257.5 | 5423.8 | 5749.7 | 6049.0 | 6165.4 | 6165.4 | 5969.2 |
| 32.5° | 12247.7 | 10777.8 | 7838.1 | 5420.5 | 5157.8 | 5161.1 | 5367.3 | 5640.0 | 5779.7 | 5799.7 | 5659.9 |
| 35°   | 12846.2 | 11133.7 | 7489.0 | 5300.8 | 5041.4 | 4905.0 | 5004.9 | 5231.0 | 5397.2 | 5440.5 | 5354.0 |
| 37.5° | 13631.1 | 11569.3 | 6990.1 | 5124.5 | 4861.8 | 4635.7 | 4658.9 | 4831.8 | 5014.8 | 5081.3 | 5024.8 |
| 40°   | 14685.3 | 12081.4 | 6471.3 | 4871.8 | 4609.1 | 4339.7 | 4329.7 | 4456.1 | 4635.7 | 4708.8 | 4678.9 |
| 42.5° | 16078.6 | 12696.6 | 5975.9 | 4629.0 | 4303.2 | 4027.1 | 4010.5 | 4110.2 | 4266.6 | 4343.0 | 4329.7 |
| 45°   | 17861.0 | 13451.5 | 5550.2 | 4439.5 | 4003.9 | 3731.2 | 3724.5 | 3807.7 | 3944.0 | 4023.8 | 4007.1 |
| 47.5° | 20338.6 | 14206.4 | 5260.9 | 4339.7 | 3767.8 | 3488.4 | 3501.7 | 3574.9 | 3697.9 | 3754.5 | 3731.2 |
| 50°   | 23567.5 | 14435.8 | 5114.5 | 4339.7 | 3641.4 | 3272.2 | 3338.7 | 3398.6 | 3491.8 | 3525.0 | 3495.0 |
| 52.5° | 26666.9 | 13677.6 | 4981.5 | 4366.3 | 3658.0 | 3089.4 | 3232.3 | 3275.6 | 3355.4 | 3368.7 | 3325.5 |
| 55°   | 28186.6 | 11758.8 | 4798.6 | 4373.0 | 3761.1 | 2933.0 | 3145.9 | 3225.7 | 3255.6 | 3252.3 | 3179.1 |
| 57.5° | 27664.5 | 9507.5  | 4489.4 | 4346.4 | 3830.9 | 2833.3 | 3039.4 | 3192.5 | 3212.4 | 3182.4 | 3046.1 |
| 60°   | 25832.2 | 7000.1  | 4253.2 | 4150.2 | 3804.3 | 2803.4 | 2876.6 | 3119.3 | 3149.2 | 3109.3 | 2886.5 |
| 62.5° | 22759.5 | 4858.5  | 4070.4 | 3717.9 | 3688.0 | 2793.4 | 2620.5 | 2959.7 | 3032.9 | 2976.3 | 2650.3 |
| 65°   | 17917.6 | 3431.9  | 3505.0 | 3259.0 | 3435.2 | 2740.1 | 2354.4 | 2766.8 | 2866.5 | 2780.1 | 2321.2 |
| 67.5° | 12124.6 | 2477.4  | 2840.0 | 2953.0 | 3026.2 | 2620.5 | 2161.5 | 2547.3 | 2680.3 | 2567.2 | 1938.8 |
| 70°   | 6547.8  | 1739.2  | 1875.5 | 2487.5 | 2570.6 | 2414.3 | 1988.6 | 2324.5 | 2477.4 | 2354.4 | 1579.6 |
| 72.5° | 3867.5  | 1250.4  | 1313.5 | 1998.6 | 2141.6 | 2124.9 | 1795.8 | 2065.1 | 2251.3 | 2105.0 | 1283.6 |
| 75°   | 2131.6  | 844.7   | 937.8  | 1449.9 | 1739.2 | 1639.5 | 1543.0 | 1749.2 | 1938.8 | 1795.8 | 991.0  |
| 77.5° | 954.4   | 505.4   | 651.8  | 951.1  | 1366.7 | 1124.0 | 1193.8 | 1363.5 | 1539.7 | 1390.0 | 661.7  |
| 80°   | 369.1   | 282.7   | 432.3  | 518.8  | 994.4  | 621.9  | 768.1  | 1004.3 | 1130.7 | 1011.0 | 402.4  |
| 82.5° | 46.5    | 126.4   | 186.2  | 202.8  | 578.6  | 329.2  | 445.6  | 631.8  | 621.9  | 538.7  | 202.8  |
| 85°   | 0.0     | 23.3    | 26.6   | 13.3   | 249.4  | 119.7  | 146.4  | 206.1  | 192.9  | 146.4  | 16.6   |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.7    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 |
| 2.5°  | 5822.9 | 5703.2 | 5643.3 | 5593.4 | 5640.0 | 5666.6 | 5666.6 | 5779.7 | 5846.2 | 5872.7 | 6059.0 |
| 5°    | 5131.2 | 4908.4 | 4758.8 | 4669.0 | 4698.9 | 4732.1 | 4768.7 | 4911.7 | 5008.2 | 5071.3 | 5360.6 |
| 7.5°  | 4585.8 | 4246.6 | 4037.1 | 3927.4 | 3944.0 | 3967.3 | 3997.2 | 4136.9 | 4233.4 | 4316.5 | 4639.0 |
| 10°   | 4316.5 | 3837.6 | 3561.6 | 3428.5 | 3405.3 | 3391.9 | 3382.0 | 3465.1 | 3538.3 | 3604.8 | 3924.0 |
| 12.5° | 4329.7 | 3661.3 | 3325.5 | 3162.5 | 3092.6 | 3012.9 | 2949.6 | 2963.0 | 3009.5 | 3092.6 | 3295.6 |
| 15°   | 4499.3 | 3604.8 | 3202.4 | 2999.6 | 2883.2 | 2790.0 | 2713.6 | 2697.0 | 2713.6 | 2726.9 | 2853.3 |
| 17.5° | 4728.8 | 3598.2 | 3096.0 | 2843.2 | 2723.5 | 2647.1 | 2577.3 | 2554.0 | 2557.3 | 2573.9 | 2607.2 |
| 20°   | 4911.7 | 3578.2 | 2976.3 | 2693.6 | 2587.2 | 2520.7 | 2450.9 | 2427.6 | 2434.3 | 2437.6 | 2474.1 |
| 22.5° | 5008.2 | 3548.2 | 2843.2 | 2543.9 | 2454.2 | 2387.6 | 2324.5 | 2321.2 | 2321.2 | 2341.1 | 2367.8 |
| 25°   | 5008.2 | 3485.1 | 2723.5 | 2401.0 | 2321.2 | 2261.4 | 2184.8 | 2198.1 | 2204.8 | 2231.4 | 2271.3 |
| 27.5° | 4888.4 | 3365.4 | 2627.1 | 2278.0 | 2194.8 | 2135.0 | 2065.1 | 2081.8 | 2091.7 | 2121.6 | 2171.6 |
| 30°   | 4735.5 | 3222.4 | 2517.4 | 2161.5 | 2065.1 | 2021.9 | 1962.1 | 1968.7 | 1981.9 | 2015.3 | 2071.7 |
| 32.5° | 4572.5 | 3052.8 | 2427.6 | 2045.2 | 1948.7 | 1915.4 | 1849.0 | 1858.9 | 1872.3 | 1908.9 | 1972.0 |
| 35°   | 4392.9 | 2853.3 | 2321.2 | 1938.8 | 1842.3 | 1815.7 | 1739.2 | 1745.9 | 1765.9 | 1805.7 | 1868.9 |
| 37.5° | 4203.4 | 2690.3 | 2214.7 | 1835.7 | 1735.9 | 1709.3 | 1629.4 | 1636.1 | 1659.4 | 1706.0 | 1765.9 |
| 40°   | 4017.2 | 2530.7 | 2101.7 | 1725.9 | 1626.2 | 1602.9 | 1516.4 | 1523.0 | 1549.7 | 1599.5 | 1662.8 |
| 42.5° | 3814.3 | 2407.6 | 1955.4 | 1612.8 | 1506.4 | 1483.2 | 1403.3 | 1413.4 | 1443.2 | 1493.1 | 1556.4 |
| 45°   | 3571.5 | 2327.8 | 1792.4 | 1506.4 | 1386.7 | 1363.5 | 1290.3 | 1310.3 | 1343.5 | 1393.4 | 1459.9 |
| 47.5° | 3322.1 | 2294.6 | 1656.1 | 1393.4 | 1263.7 | 1243.7 | 1183.9 | 1217.1 | 1253.7 | 1293.7 | 1366.7 |
| 50°   | 3082.7 | 2251.3 | 1516.4 | 1287.0 | 1157.2 | 1137.3 | 1097.4 | 1140.6 | 1177.2 | 1213.8 | 1283.6 |
| 52.5° | 2810.0 | 2158.2 | 1390.0 | 1193.8 | 1067.4 | 1060.8 | 1040.9 | 1080.8 | 1114.1 | 1147.3 | 1207.1 |
| 55°   | 2527.3 | 2008.6 | 1280.3 | 1110.7 | 991.0  | 997.6  | 987.7  | 1020.9 | 1047.6 | 1077.5 | 1130.7 |
| 57.5° | 2281.2 | 1819.1 | 1193.8 | 1020.9 | 924.4  | 944.4  | 931.1  | 947.7  | 964.4  | 1001.0 | 1044.2 |
| 60°   | 2031.9 | 1592.8 | 1097.4 | 914.5  | 857.9  | 881.3  | 844.7  | 841.3  | 848.0  | 857.9  | 937.8  |
| 62.5° | 1696.0 | 1356.8 | 977.6  | 821.4  | 784.8  | 794.8  | 725.0  | 671.8  | 671.8  | 681.7  | 801.4  |
| 65°   | 1363.5 | 1137.3 | 844.7  | 714.9  | 685.0  | 678.3  | 578.6  | 505.4  | 498.9  | 528.8  | 631.8  |
| 67.5° | 1120.6 | 944.4  | 711.7  | 595.2  | 575.3  | 582.0  | 508.8  | 435.6  | 429.0  | 462.3  | 538.7  |
| 70°   | 927.8  | 761.6  | 568.7  | 458.9  | 478.9  | 508.8  | 435.6  | 365.8  | 355.8  | 385.7  | 458.9  |
| 72.5° | 738.2  | 595.2  | 435.6  | 339.2  | 395.8  | 432.3  | 355.8  | 289.4  | 282.7  | 309.2  | 379.1  |
| 75°   | 542.0  | 425.7  | 295.9  | 246.1  | 306.0  | 339.2  | 259.4  | 206.1  | 196.2  | 219.5  | 289.4  |
| 77.5° | 335.9  | 239.4  | 186.2  | 146.4  | 209.5  | 226.1  | 136.3  | 119.7  | 116.4  | 133.0  | 182.9  |
| 80°   | 156.3  | 103.1  | 89.8   | 49.9   | 76.5   | 89.8   | 56.6   | 63.1   | 66.5   | 79.8   | 113.1  |
| 82.5° | 43.3   | 16.6   | 3.3    | 0.0    | 0.0    | 26.6   | 13.3   | 26.6   | 33.2   | 49.9   | 73.2   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.7    | 16.6   | 29.9   | 53.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 13.3   | 26.6   |
| 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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| 0°    | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2 | 6684.2  | 6684.2  |
| 2.5°  | 6198.7 | 6331.6 | 6544.5 | 6764.0 | 6980.1 | 7199.6 | 7412.5  | 7489.0  |
| 5°    | 5623.4 | 5929.3 | 6351.6 | 6803.8 | 7269.5 | 7741.7 | 8174.0  | 8370.2  |
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| 17.5° | 2690.3 | 3026.2 | 3920.7 | 5277.5 | 6980.1 | 8729.3 | 10225.8 | 10791.1 |
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| 22.5° | 2367.8 | 2391.0 | 2613.9 | 3890.8 | 6345.0 | 8576.4 | 10408.7 | 11020.6 |
| 25°   | 2271.3 | 2278.0 | 2337.8 | 3082.7 | 5816.3 | 8553.1 | 10588.2 | 11203.5 |
| 27.5° | 2174.8 | 2174.8 | 2208.2 | 2484.1 | 5097.9 | 8453.3 | 10821.0 | 11423.0 |
| 30°   | 2078.4 | 2078.4 | 2101.7 | 2198.1 | 4256.6 | 8257.1 | 11100.4 | 11709.0 |
| 32.5° | 1978.7 | 1978.7 | 1998.6 | 2068.4 | 3398.6 | 8011.0 | 11356.5 | 11998.2 |
| 35°   | 1878.9 | 1872.3 | 1898.8 | 1972.0 | 2703.6 | 7698.5 | 11612.5 | 12310.9 |
| 37.5° | 1772.4 | 1769.2 | 1795.8 | 1878.9 | 2334.4 | 7335.9 | 11805.4 | 12736.5 |
| 40°   | 1659.4 | 1659.4 | 1689.3 | 1779.1 | 2228.0 | 6880.4 | 12111.3 | 13348.4 |
| 42.5° | 1556.4 | 1549.7 | 1582.9 | 1692.7 | 2148.3 | 6444.8 | 12660.1 | 14239.6 |
| 45°   | 1456.5 | 1443.2 | 1473.1 | 1609.6 | 2008.6 | 6291.8 | 13684.3 | 15556.5 |
| 47.5° | 1363.5 | 1330.1 | 1356.8 | 1509.7 | 1882.2 | 6863.7 | 15360.3 | 17382.2 |
| 50°   | 1287.0 | 1223.7 | 1247.0 | 1410.0 | 1785.8 | 8104.2 | 17535.2 | 19806.5 |
| 52.5° | 1207.1 | 1124.0 | 1137.3 | 1287.0 | 1699.3 | 9284.7 | 19892.9 | 23005.5 |
| 55°   | 1124.0 | 1030.8 | 1037.5 | 1163.9 | 1576.2 | 9461.0 | 22194.1 | 27368.5 |
| 57.5° | 1030.8 | 944.4  | 944.4  | 1050.8 | 1486.5 | 8200.6 | 23963.3 | 32782.4 |
| 60°   | 927.8  | 871.2  | 854.6  | 961.0  | 1566.3 | 5786.3 | 24169.5 | 36274.1 |
| 62.5° | 814.8  | 784.8  | 761.6  | 874.6  | 1626.2 | 3428.5 | 22510.0 | 35429.4 |
| 65°   | 685.0  | 678.3  | 661.7  | 961.0  | 1370.1 | 2025.2 | 19324.2 | 32839.0 |
| 67.5° | 575.3  | 565.3  | 565.3  | 1007.6 | 1040.9 | 1273.7 | 15097.6 | 29274.0 |
| 70°   | 495.5  | 458.9  | 458.9  | 761.6  | 631.8  | 881.3  | 10541.7 | 25426.5 |
| 72.5° | 415.6  | 375.8  | 349.2  | 608.5  | 472.2  | 645.1  | 6587.8  | 21775.1 |
| 75°   | 332.5  | 302.6  | 269.4  | 402.4  | 352.5  | 488.8  | 3827.7  | 18040.6 |
| 77.5° | 239.4  | 226.1  | 189.5  | 295.9  | 256.0  | 352.5  | 2278.0  | 13920.4 |
| 80°   | 123.0  | 126.4  | 119.7  | 169.6  | 172.9  | 239.4  | 1296.9  | 9527.5  |
| 82.5° | 73.2   | 56.6   | 63.1   | 83.1   | 99.7   | 136.3  | 488.8   | 5600.1  |
| 85°   | 46.5   | 29.9   | 29.9   | 39.9   | 49.9   | 53.2   | 149.6   | 2271.3  |
| 87.5° | 23.3   | 9.9    | 13.3   | 20.0   | 16.6   | 13.3   | 6.7     | 571.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

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