

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: P969875

Luminaire Tested: **NVN-SB6A-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-740-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24559 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

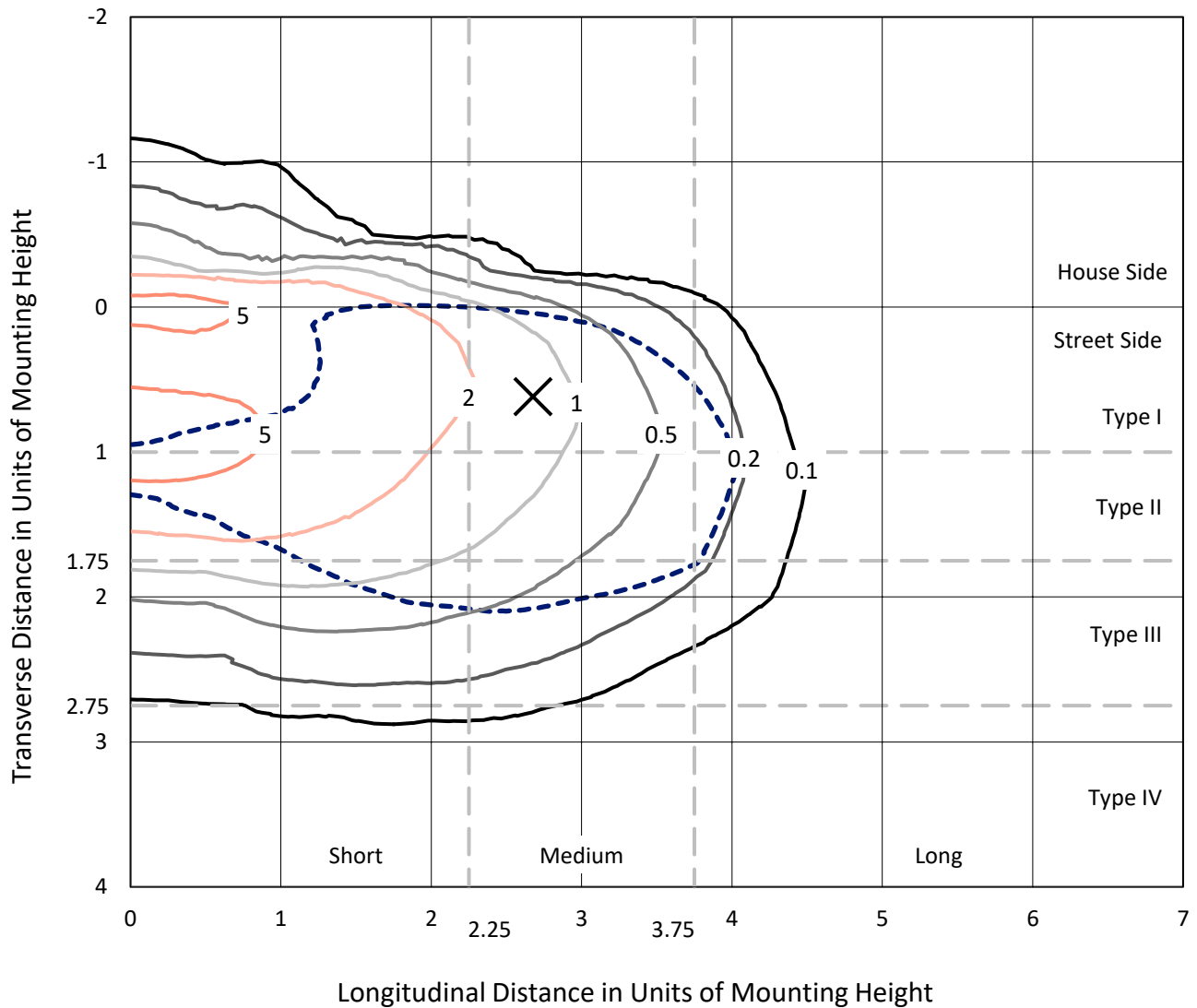
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

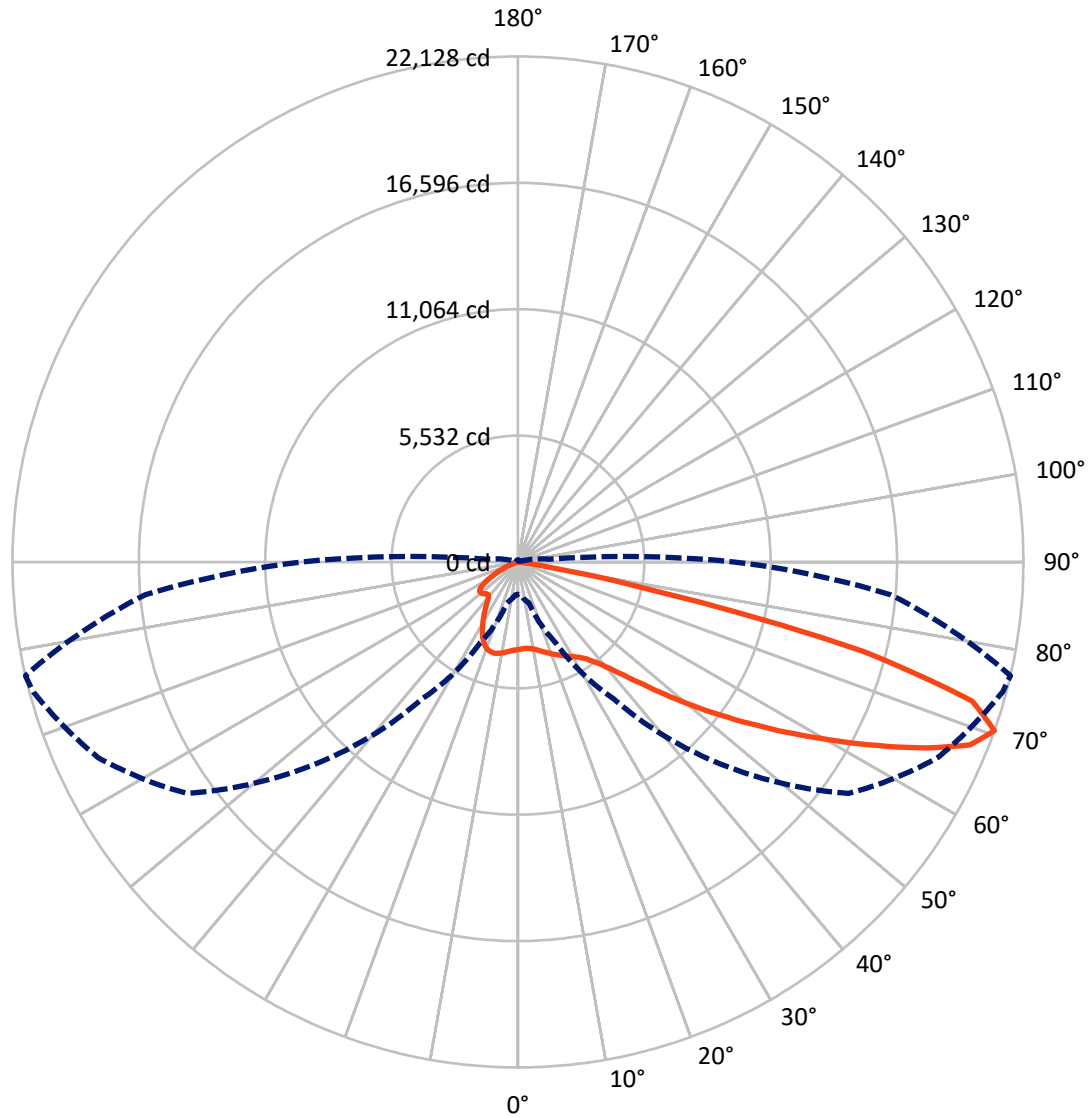
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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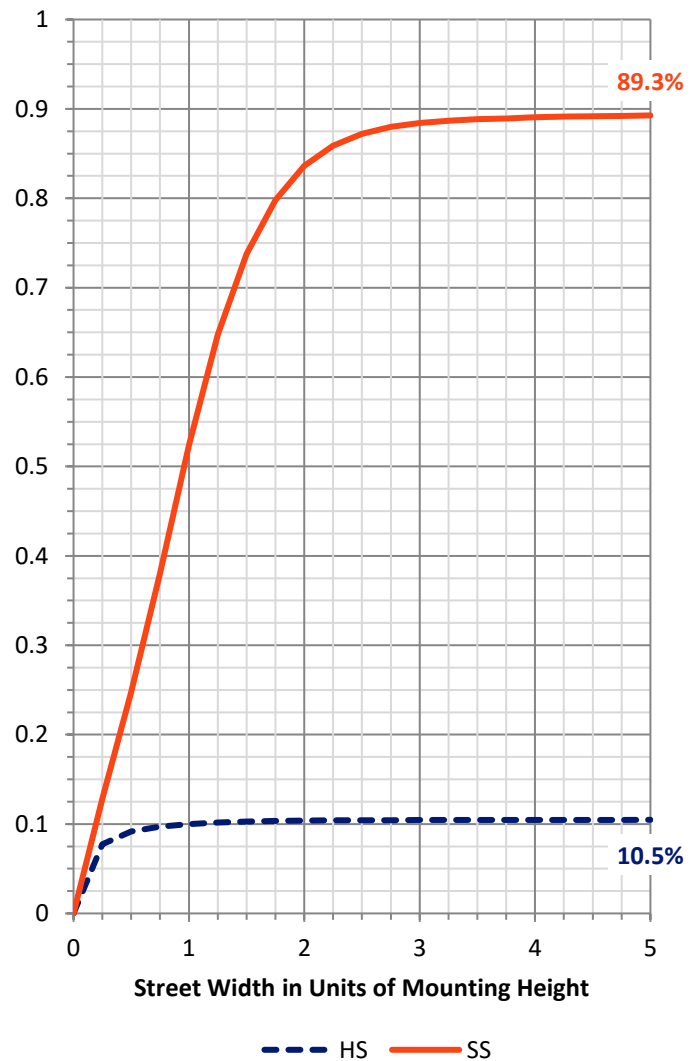
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2588.9 | 0.0 | 2588.9 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 21970.1 | 0.0 | 21970.1 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 24559.0 | 0.0 | 24559.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 330.2 | 1.3 |
| 10°-20° | 783.7 | 3.2 |
| 20°-30° | 1212.2 | 4.9 |
| 30°-40° | 2199.7 | 9.0 |
| 40°-50° | 4152.1 | 16.9 |
| 50°-60° | 5999.4 | 24.4 |
| 60°-70° | 6386.3 | 26.0 |
| 70°-80° | 3384.3 | 13.8 |
| 80°-90° | 111.1 | 0.5 |
| 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° | 24559.0 | 100.0 |
| 0°-180° | 24559.0 | 100.0 |

Coefficient of Utilization



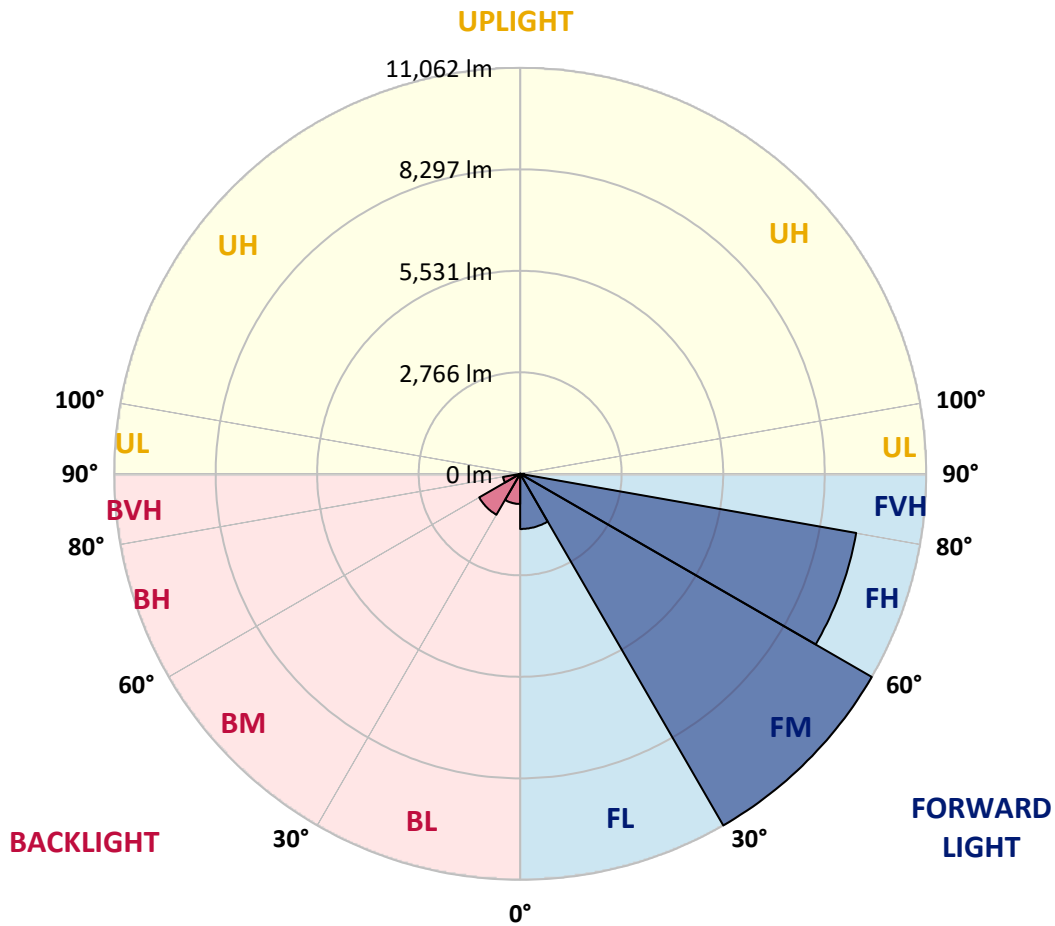
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1503.6 | 6.1 | | | |
| FM (30°-60°) | 11062.5 | 45.0 | | | |
| FH (60°-80°) | 9295.9 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 108.1 | 0.4 | | | G2/225 |
| BL (0°-30°) | 822.5 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1288.7 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 474.6 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 |
| 2.5° | 3596.6 | 3629.1 | 3624.5 | 3646.2 | 3653.9 | 3685.0 | 3716.0 | 3757.9 | 3804.4 | 3802.9 | 3833.9 |
| 5° | 3393.4 | 3426.0 | 3433.7 | 3463.2 | 3500.4 | 3548.4 | 3612.1 | 3695.8 | 3782.7 | 3796.6 | 3858.7 |
| 7.5° | 3153.0 | 3187.1 | 3207.3 | 3266.3 | 3334.4 | 3433.7 | 3537.7 | 3660.2 | 3804.4 | 3824.6 | 3944.0 |
| 10° | 2912.6 | 2943.6 | 2970.0 | 3053.8 | 3162.3 | 3309.6 | 3478.7 | 3655.5 | 3849.4 | 3878.8 | 4047.9 |
| 12.5° | 2763.7 | 2793.2 | 2822.6 | 2895.5 | 3030.5 | 3210.4 | 3439.9 | 3677.2 | 3923.8 | 3965.7 | 4189.1 |
| 15° | 2711.0 | 2737.4 | 2760.6 | 2825.7 | 2951.4 | 3156.1 | 3432.2 | 3722.2 | 4018.4 | 4074.3 | 4359.6 |
| 17.5° | 2718.7 | 2732.8 | 2748.2 | 2797.8 | 2920.3 | 3131.3 | 3446.2 | 3799.8 | 4130.1 | 4179.7 | 4530.2 |
| 20° | 2763.7 | 2771.5 | 2773.0 | 2807.2 | 2915.7 | 3128.2 | 3474.0 | 3874.2 | 4235.5 | 4302.2 | 4699.3 |
| 22.5° | 2821.1 | 2824.2 | 2821.1 | 2844.4 | 2945.2 | 3151.5 | 3511.2 | 3964.2 | 4353.4 | 4415.5 | 4869.9 |
| 25° | 3089.5 | 3030.5 | 2956.0 | 2911.1 | 2994.8 | 3196.5 | 3567.1 | 4085.1 | 4482.1 | 4542.6 | 5035.8 |
| 27.5° | 3922.3 | 3753.2 | 3486.4 | 3187.1 | 3097.1 | 3261.5 | 3644.7 | 4207.6 | 4612.4 | 4666.7 | 5214.2 |
| 30° | 5274.6 | 5052.8 | 4600.0 | 3925.3 | 3426.0 | 3398.1 | 3745.5 | 4330.1 | 4750.5 | 4809.4 | 5404.9 |
| 32.5° | 6630.2 | 6575.9 | 6053.2 | 5119.6 | 4165.8 | 3702.0 | 3912.9 | 4496.1 | 4933.4 | 4980.0 | 5662.4 |
| 35° | 8001.2 | 7891.1 | 7463.0 | 6540.2 | 5305.7 | 4320.9 | 4192.1 | 4713.3 | 5173.9 | 5226.6 | 6037.8 |
| 37.5° | 9051.2 | 8984.4 | 8719.3 | 7959.3 | 6658.1 | 5276.2 | 4669.8 | 5049.8 | 5522.8 | 5581.7 | 6518.5 |
| 40° | 9978.6 | 9947.5 | 9857.6 | 9356.7 | 8170.2 | 6526.3 | 5412.7 | 5570.9 | 6006.7 | 6076.5 | 7107.9 |
| 42.5° | 10707.6 | 10780.4 | 10831.6 | 10692.0 | 9728.9 | 7953.1 | 6411.5 | 6302.9 | 6681.4 | 6752.7 | 7858.5 |
| 45° | 11453.6 | 11478.4 | 11684.6 | 11886.2 | 11276.7 | 9445.1 | 7537.4 | 7160.5 | 7520.4 | 7608.8 | 8758.0 |
| 47.5° | 11932.7 | 12032.0 | 12394.9 | 12750.1 | 12577.9 | 10924.7 | 8747.1 | 8173.4 | 8492.8 | 8658.8 | 9766.1 |
| 50° | 11968.4 | 12156.1 | 12655.5 | 13274.3 | 13525.5 | 12332.9 | 10062.3 | 9327.2 | 9666.9 | 9849.8 | 10842.4 |
| 52.5° | 11374.4 | 11665.9 | 12439.9 | 13345.6 | 14037.4 | 13525.5 | 11422.5 | 10481.0 | 10916.9 | 11155.7 | 11959.1 |
| 55° | 8720.8 | 9102.3 | 11628.7 | 12957.8 | 14057.5 | 14429.7 | 12747.0 | 11683.1 | 12309.6 | 12579.5 | 13165.7 |
| 57.5° | 7597.9 | 7790.2 | 9142.7 | 12284.8 | 13683.7 | 14794.1 | 13944.3 | 12827.7 | 13824.9 | 14159.9 | 14305.6 |
| 60° | 6321.5 | 6574.4 | 7667.7 | 11183.7 | 13176.6 | 14829.8 | 15002.0 | 14304.1 | 15467.2 | 15844.1 | 15350.9 |
| 62.5° | 4296.1 | 4570.6 | 5657.7 | 9291.5 | 12483.3 | 14812.8 | 15868.9 | 15824.0 | 17292.7 | 17697.4 | 16236.5 |
| 65° | 2661.4 | 2833.5 | 3550.1 | 7587.0 | 11514.0 | 14831.4 | 16776.3 | 17669.6 | 19219.0 | 19630.0 | 16922.0 |
| 67.5° | 2103.0 | 2182.1 | 2555.9 | 5825.3 | 9843.7 | 14412.6 | 17682.0 | 19405.1 | 21032.0 | 21357.6 | 17131.4 |
| 70° | 1412.9 | 1460.9 | 1859.6 | 3905.2 | 7323.4 | 12480.2 | 17665.0 | 20276.7 | 21965.6 | 22128.4 | 16368.3 |
| 72.5° | 744.5 | 781.7 | 1087.2 | 1808.4 | 4423.2 | 8871.3 | 14890.4 | 19234.4 | 21036.6 | 20791.6 | 13990.8 |
| 75° | 372.2 | 434.3 | 732.1 | 918.1 | 1889.0 | 4947.5 | 9246.5 | 15164.9 | 16557.5 | 15608.4 | 8976.7 |
| 77.5° | 282.3 | 341.2 | 604.9 | 604.9 | 657.5 | 1665.7 | 3916.0 | 8271.0 | 7629.0 | 6352.5 | 2635.0 |
| 80° | 179.9 | 232.7 | 528.9 | 457.6 | 274.5 | 423.4 | 1020.5 | 2317.1 | 1620.7 | 1233.0 | 479.2 |
| 82.5° | 105.5 | 152.0 | 440.4 | 302.5 | 153.5 | 156.6 | 288.4 | 493.2 | 420.2 | 327.3 | 147.3 |
| 85° | 41.9 | 99.2 | 302.5 | 119.4 | 60.5 | 38.7 | 86.8 | 105.5 | 86.8 | 65.1 | 37.2 |
| 87.5° | 0.0 | 23.3 | 52.7 | 0.0 | 4.6 | 3.1 | 6.3 | 7.8 | 7.8 | 6.3 | 12.4 |
| 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° | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 | 3830.7 |
| 2.5° | 3847.8 | 3850.9 | 3860.3 | 3861.8 | 3840.1 | 3812.2 | 3801.3 | 3796.6 | 3778.0 | 3776.5 | 3779.6 |
| 5° | 3894.4 | 3908.3 | 3894.4 | 3854.0 | 3757.9 | 3623.0 | 3520.6 | 3436.8 | 3360.9 | 3337.6 | 3323.6 |
| 7.5° | 3987.4 | 4001.4 | 3959.5 | 3801.3 | 3559.3 | 3291.1 | 3049.1 | 2878.5 | 2725.0 | 2667.6 | 2644.3 |
| 10° | 4120.8 | 4139.4 | 4007.5 | 3688.1 | 3260.0 | 2828.9 | 2419.4 | 2131.0 | 1906.1 | 1814.6 | 1775.8 |
| 12.5° | 4288.3 | 4296.1 | 4033.9 | 3516.0 | 2870.7 | 2255.0 | 1675.0 | 1366.3 | 1166.2 | 1091.8 | 1068.6 |
| 15° | 4472.8 | 4462.0 | 4037.1 | 3281.7 | 2340.3 | 1594.4 | 1093.4 | 898.0 | 817.3 | 792.5 | 792.5 |
| 17.5° | 4666.7 | 4621.7 | 3975.0 | 2943.6 | 1758.7 | 1090.3 | 811.1 | 764.6 | 750.6 | 744.5 | 742.9 |
| 20° | 4857.5 | 4756.6 | 3861.8 | 2501.6 | 1262.5 | 814.3 | 736.7 | 722.7 | 714.9 | 711.9 | 708.8 |
| 22.5° | 5031.2 | 4859.0 | 3668.0 | 1988.3 | 916.6 | 719.7 | 696.4 | 684.0 | 670.0 | 663.8 | 662.3 |
| 25° | 5200.2 | 4918.0 | 3394.9 | 1509.0 | 733.6 | 673.1 | 654.5 | 631.2 | 612.6 | 604.9 | 601.8 |
| 27.5° | 5364.6 | 4955.2 | 3053.8 | 1116.6 | 654.5 | 629.7 | 595.5 | 563.0 | 549.0 | 545.9 | 542.8 |
| 30° | 5539.9 | 4967.6 | 2666.0 | 832.8 | 606.4 | 575.4 | 525.7 | 488.5 | 480.8 | 482.4 | 482.4 |
| 32.5° | 5753.9 | 4986.2 | 2275.2 | 682.4 | 566.1 | 510.2 | 451.3 | 412.6 | 406.3 | 412.6 | 411.0 |
| 35° | 6009.8 | 5023.4 | 1898.3 | 628.1 | 530.4 | 443.5 | 380.0 | 347.4 | 341.2 | 345.8 | 344.3 |
| 37.5° | 6357.2 | 5083.9 | 1546.2 | 617.3 | 500.9 | 387.8 | 319.5 | 293.2 | 293.2 | 294.7 | 293.2 |
| 40° | 6819.3 | 5245.2 | 1231.4 | 609.5 | 485.4 | 345.8 | 269.9 | 259.0 | 263.6 | 266.8 | 266.8 |
| 42.5° | 7382.4 | 5588.0 | 1019.0 | 600.2 | 468.4 | 327.3 | 245.1 | 240.4 | 248.2 | 251.2 | 251.2 |
| 45° | 8013.6 | 6022.2 | 944.5 | 584.7 | 452.8 | 339.7 | 234.2 | 228.0 | 237.3 | 238.8 | 240.4 |
| 47.5° | 8666.5 | 6447.1 | 935.2 | 567.6 | 437.4 | 358.2 | 231.1 | 217.1 | 228.0 | 229.5 | 231.1 |
| 50° | 9327.2 | 6724.7 | 944.5 | 541.3 | 412.6 | 358.2 | 232.7 | 206.2 | 215.6 | 220.3 | 221.8 |
| 52.5° | 9992.5 | 6851.9 | 938.3 | 483.9 | 369.1 | 336.5 | 232.7 | 197.0 | 206.2 | 209.4 | 209.4 |
| 55° | 10637.8 | 6827.1 | 843.7 | 398.6 | 313.2 | 297.8 | 226.4 | 189.2 | 195.4 | 197.0 | 197.0 |
| 57.5° | 11148.0 | 6481.3 | 668.4 | 310.2 | 254.3 | 248.2 | 206.2 | 179.9 | 184.6 | 183.0 | 183.0 |
| 60° | 11414.7 | 5721.3 | 477.6 | 238.8 | 200.1 | 195.4 | 181.4 | 167.5 | 170.6 | 162.9 | 161.3 |
| 62.5° | 11417.9 | 4716.3 | 319.5 | 189.2 | 159.7 | 155.1 | 155.1 | 150.5 | 147.3 | 131.8 | 127.2 |
| 65° | 11174.3 | 3601.2 | 212.5 | 150.5 | 128.7 | 121.0 | 130.3 | 128.7 | 117.9 | 96.1 | 93.1 |
| 67.5° | 10622.2 | 2360.5 | 161.3 | 117.9 | 99.2 | 94.6 | 103.9 | 108.5 | 100.9 | 80.7 | 79.1 |
| 70° | 9487.0 | 1374.1 | 133.4 | 91.5 | 74.4 | 69.8 | 83.7 | 93.1 | 83.7 | 65.1 | 62.0 |
| 72.5° | 7880.2 | 741.4 | 108.5 | 68.3 | 51.1 | 46.5 | 66.7 | 76.0 | 66.7 | 48.1 | 46.5 |
| 75° | 5113.4 | 397.1 | 83.7 | 45.0 | 26.3 | 29.4 | 49.6 | 55.9 | 46.5 | 31.1 | 27.9 |
| 77.5° | 1716.9 | 175.3 | 52.7 | 21.7 | 12.4 | 12.4 | 29.4 | 34.1 | 21.7 | 10.9 | 9.3 |
| 80° | 383.0 | 72.9 | 21.7 | 9.3 | 4.6 | 4.6 | 6.3 | 6.3 | 3.1 | 0.0 | 0.0 |
| 82.5° | 125.7 | 29.4 | 9.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 48.1 | 10.9 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.7 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)