

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: P970873

Luminaire Tested: **NVN-SB6C-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-730-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46459.2 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

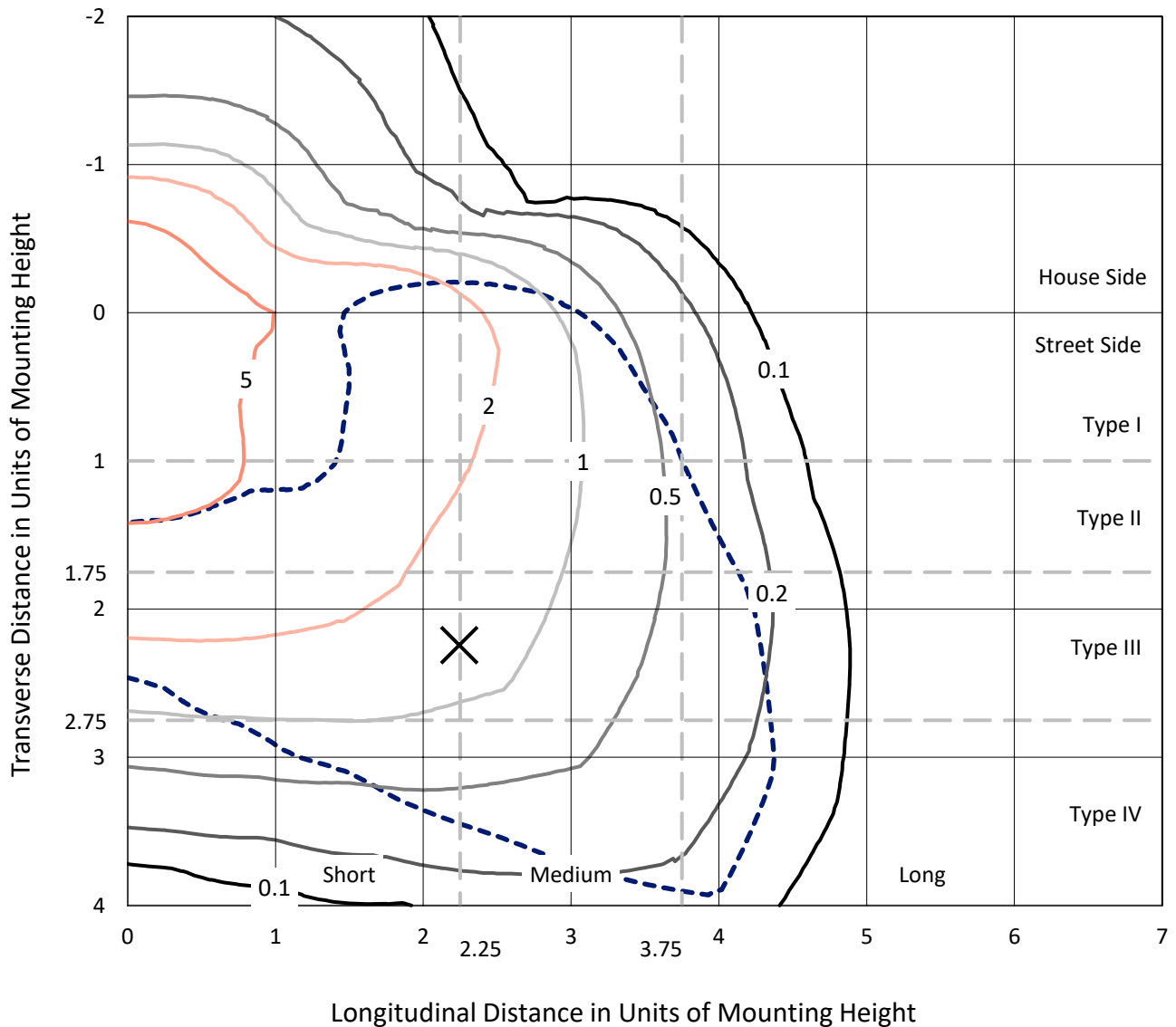
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

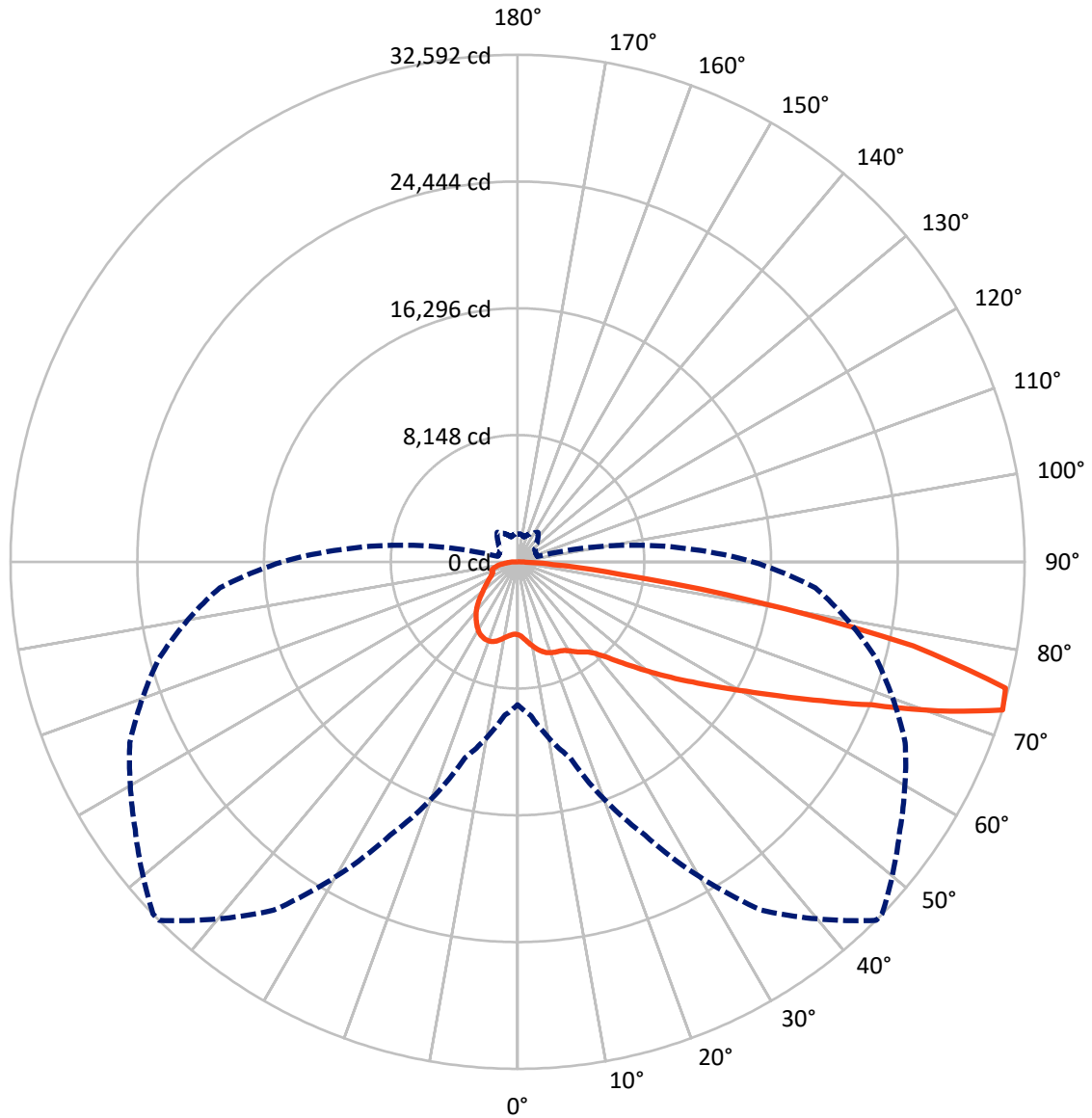
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10502.8 | 0.0 | 10502.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 35956.3 | 0.0 | 35956.3 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 46459.2 | 0.0 | 46459.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 477.0 | 1.0 |
| 10°-20° | 1590.5 | 3.4 |
| 20°-30° | 2766.7 | 6.0 |
| 30°-40° | 3966.2 | 8.5 |
| 40°-50° | 5584.7 | 12.0 |
| 50°-60° | 8554.1 | 18.4 |
| 60°-70° | 12391.9 | 26.7 |
| 70°-80° | 9895.6 | 21.3 |
| 80°-90° | 1232.5 | 2.7 |
| 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° | 46459.2 | 100.0 |
| 0°-180° | 46459.2 | 100.0 |

Coefficient of Utilization

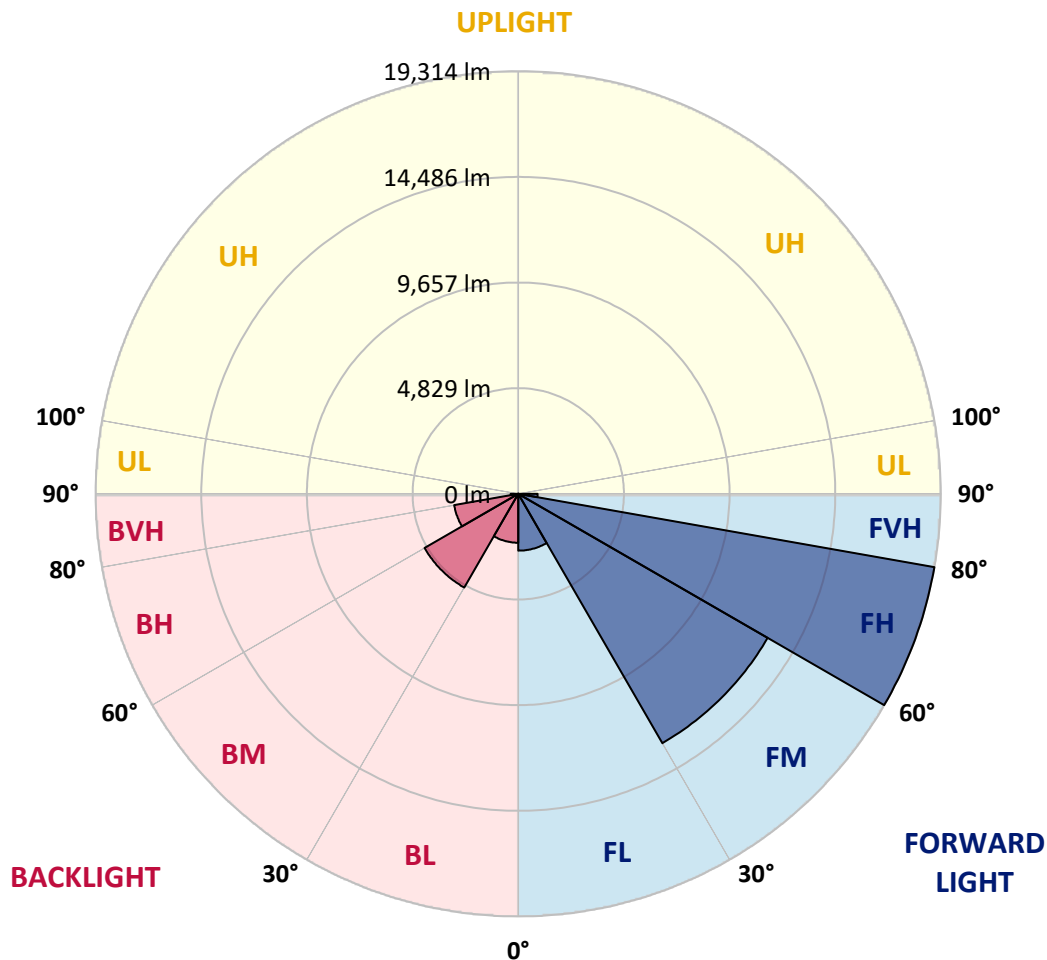


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2598.1 | 5.6 | | | |
| FM (30°-60°) | 13159.7 | 28.3 | | | |
| FH (60°-80°) | 19314.4 | 41.6 | | | G5 |
| FVH (80°-90°) | 884.2 | 1.9 | | | G5 |
| BL (0°-30°) | 2236.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4945.3 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2973.1 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 348.3 | 0.7 | | | G3/500 |
| 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° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 |
| 2.5° | 4870.4 | 4902.2 | 4872.8 | 4845.9 | 4833.7 | 4801.8 | 4799.4 | 4779.8 | 4767.6 | 4733.3 | 4723.5 |
| 5° | 5210.6 | 5252.2 | 5203.2 | 5149.4 | 5100.4 | 5022.1 | 5012.4 | 4956.1 | 4892.4 | 4818.9 | 4777.4 |
| 7.5° | 5594.9 | 5631.6 | 5575.3 | 5494.5 | 5408.8 | 5279.1 | 5276.7 | 5173.9 | 5073.5 | 4948.7 | 4877.8 |
| 10° | 5930.1 | 5979.0 | 5903.2 | 5793.1 | 5685.4 | 5538.5 | 5521.4 | 5403.9 | 5276.7 | 5115.2 | 5007.4 |
| 12.5° | 6226.3 | 6260.5 | 6187.1 | 6052.5 | 5927.7 | 5780.8 | 5758.8 | 5629.1 | 5487.1 | 5303.6 | 5166.5 |
| 15° | 6461.2 | 6505.3 | 6407.4 | 6263.0 | 6130.8 | 5986.4 | 5966.8 | 5849.4 | 5707.4 | 5514.1 | 5337.8 |
| 17.5° | 6615.4 | 6652.1 | 6551.8 | 6390.3 | 6263.0 | 6143.0 | 6128.4 | 6030.5 | 5905.6 | 5709.9 | 5521.4 |
| 20° | 6674.2 | 6713.3 | 6608.1 | 6444.1 | 6326.6 | 6233.6 | 6226.3 | 6155.3 | 6069.6 | 5891.0 | 5700.0 |
| 22.5° | 6732.9 | 6769.6 | 6632.6 | 6461.2 | 6358.4 | 6299.6 | 6297.2 | 6250.8 | 6216.4 | 6069.6 | 5883.6 |
| 25° | 6970.3 | 6980.0 | 6796.5 | 6549.3 | 6402.5 | 6351.1 | 6348.6 | 6346.2 | 6360.8 | 6245.8 | 6081.8 |
| 27.5° | 7175.8 | 7173.4 | 7016.7 | 6784.3 | 6556.6 | 6449.0 | 6446.5 | 6471.0 | 6517.5 | 6422.0 | 6287.5 |
| 30° | 7476.9 | 7450.0 | 7264.0 | 7021.7 | 6813.7 | 6647.2 | 6632.6 | 6610.5 | 6647.2 | 6571.4 | 6493.1 |
| 32.5° | 8115.6 | 8030.1 | 7729.0 | 7298.2 | 7026.6 | 6899.3 | 6879.7 | 6742.7 | 6757.3 | 6710.9 | 6671.7 |
| 35° | 9031.0 | 8918.4 | 8517.0 | 7822.0 | 7290.9 | 7109.8 | 7100.0 | 6926.2 | 6896.8 | 6855.2 | 6870.0 |
| 37.5° | 10120.1 | 9980.6 | 9513.1 | 8580.7 | 7746.1 | 7354.5 | 7339.8 | 7183.2 | 7063.3 | 7019.2 | 7102.4 |
| 40° | 11214.1 | 11037.9 | 10651.2 | 9505.8 | 8416.7 | 7763.2 | 7716.7 | 7479.3 | 7342.3 | 7268.9 | 7445.1 |
| 42.5° | 12276.3 | 12129.4 | 11799.1 | 10543.6 | 9244.0 | 8360.4 | 8257.6 | 7851.4 | 7748.6 | 7680.0 | 7998.2 |
| 45° | 13216.1 | 13083.9 | 12841.6 | 11652.2 | 10213.1 | 9172.9 | 9072.6 | 8409.4 | 8377.5 | 8377.5 | 8837.7 |
| 47.5° | 13979.7 | 13950.4 | 13693.4 | 12782.9 | 11356.1 | 10098.1 | 9924.4 | 9185.2 | 9270.8 | 9403.0 | 10029.5 |
| 50° | 14826.5 | 14745.8 | 14471.7 | 13896.5 | 12699.7 | 11157.8 | 11015.9 | 10137.2 | 10457.9 | 10820.1 | 11752.5 |
| 52.5° | 15604.8 | 15648.9 | 15342.9 | 15056.5 | 14217.1 | 12340.0 | 12090.3 | 11260.6 | 11953.2 | 12552.9 | 13771.7 |
| 55° | 16405.1 | 16407.6 | 16321.9 | 16282.7 | 15808.0 | 13646.8 | 13372.8 | 12611.6 | 13713.0 | 14456.9 | 16126.1 |
| 57.5° | 17156.4 | 17161.4 | 17288.7 | 17633.7 | 17653.3 | 15154.5 | 14843.6 | 14271.0 | 15668.5 | 16427.2 | 18553.9 |
| 60° | 17827.1 | 17861.3 | 18208.8 | 19016.5 | 19275.9 | 16882.4 | 16588.7 | 16231.4 | 17690.0 | 18453.6 | 21106.6 |
| 62.5° | 18052.2 | 18177.0 | 18950.4 | 20098.3 | 20879.0 | 19001.9 | 18713.0 | 18500.1 | 19814.4 | 20524.1 | 23240.7 |
| 65° | 17670.4 | 17956.8 | 19452.1 | 20991.6 | 22528.6 | 21520.2 | 21233.9 | 21001.3 | 22021.9 | 22690.1 | 24993.1 |
| 67.5° | 16733.0 | 17102.6 | 19422.8 | 21929.0 | 24530.6 | 24550.2 | 24283.4 | 23737.6 | 24388.6 | 24645.6 | 25563.4 |
| 70° | 14263.6 | 14816.7 | 17712.0 | 22278.9 | 26828.7 | 28693.6 | 28436.7 | 27031.8 | 26750.3 | 25507.1 | 23957.8 |
| 72.5° | 9190.0 | 9934.1 | 13042.3 | 19398.3 | 27340.2 | 32592.4 | 32577.7 | 30005.4 | 27496.9 | 23833.1 | 19214.8 |
| 75° | 3353.0 | 3808.2 | 6059.8 | 12176.0 | 22949.5 | 32394.2 | 32489.6 | 29496.4 | 25100.8 | 18409.5 | 11970.4 |
| 77.5° | 1221.3 | 1336.3 | 1977.5 | 4679.4 | 14114.4 | 25991.6 | 26189.9 | 23580.9 | 17866.3 | 9239.0 | 4743.1 |
| 80° | 641.2 | 704.9 | 1013.2 | 1816.0 | 6047.6 | 15435.9 | 15746.8 | 14014.0 | 8397.1 | 2782.8 | 1422.0 |
| 82.5° | 354.9 | 384.3 | 567.8 | 986.4 | 2723.9 | 6600.7 | 6786.7 | 5536.1 | 2954.0 | 1179.7 | 587.4 |
| 85° | 190.9 | 203.2 | 266.8 | 538.4 | 1331.4 | 2288.3 | 2339.8 | 1654.5 | 1177.2 | 692.6 | 283.9 |
| 87.5° | 56.3 | 68.6 | 88.1 | 171.3 | 521.3 | 513.9 | 526.2 | 328.0 | 465.0 | 349.9 | 93.0 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 | 4686.8 |
| 2.5° | 4708.8 | 4701.5 | 4674.6 | 4662.3 | 4647.7 | 4645.2 | 4657.5 | 4659.9 | 4662.3 | 4664.8 | 4674.6 |
| 5° | 4752.9 | 4728.4 | 4703.9 | 4689.3 | 4694.2 | 4696.7 | 4721.0 | 4738.3 | 4750.5 | 4760.2 | 4765.1 |
| 7.5° | 4838.6 | 4818.9 | 4777.4 | 4775.0 | 4782.2 | 4804.3 | 4836.2 | 4875.3 | 4897.3 | 4914.5 | 4919.3 |
| 10° | 4965.8 | 4929.1 | 4880.1 | 4887.5 | 4902.2 | 4934.0 | 5000.1 | 5031.9 | 5068.6 | 5100.4 | 5093.1 |
| 12.5° | 5095.6 | 5063.7 | 5007.4 | 5012.4 | 5036.8 | 5093.1 | 5156.8 | 5195.9 | 5220.3 | 5244.8 | 5254.7 |
| 15° | 5264.4 | 5208.1 | 5146.9 | 5146.9 | 5191.0 | 5252.2 | 5281.5 | 5313.4 | 5328.1 | 5355.0 | 5364.7 |
| 17.5° | 5438.1 | 5364.7 | 5284.0 | 5279.1 | 5333.0 | 5362.3 | 5379.4 | 5384.3 | 5389.2 | 5418.6 | 5428.4 |
| 20° | 5612.0 | 5531.2 | 5416.2 | 5406.4 | 5418.6 | 5413.7 | 5411.3 | 5406.4 | 5413.7 | 5450.4 | 5465.1 |
| 22.5° | 5783.3 | 5690.3 | 5531.2 | 5487.1 | 5452.9 | 5406.4 | 5403.9 | 5401.4 | 5406.4 | 5443.1 | 5467.6 |
| 25° | 5984.0 | 5871.4 | 5658.4 | 5526.3 | 5411.3 | 5347.6 | 5355.0 | 5357.5 | 5362.3 | 5391.7 | 5430.9 |
| 27.5° | 6201.8 | 6076.9 | 5776.0 | 5514.1 | 5306.0 | 5261.9 | 5249.7 | 5257.1 | 5274.2 | 5320.7 | 5367.2 |
| 30° | 6419.6 | 6272.8 | 5883.6 | 5465.1 | 5173.9 | 5112.7 | 5073.5 | 5090.7 | 5144.5 | 5191.0 | 5242.4 |
| 32.5° | 6617.8 | 6471.0 | 5969.3 | 5357.5 | 5005.0 | 4909.5 | 4858.2 | 4880.1 | 4934.0 | 4951.2 | 5012.4 |
| 35° | 6850.4 | 6683.9 | 6006.0 | 5186.1 | 4821.4 | 4674.6 | 4606.0 | 4574.3 | 4601.1 | 4584.0 | 4637.9 |
| 37.5° | 7109.8 | 6936.0 | 6001.1 | 4960.9 | 4606.0 | 4437.2 | 4341.7 | 4221.8 | 4165.5 | 4106.8 | 4143.5 |
| 40° | 7494.0 | 7244.4 | 5942.3 | 4689.3 | 4339.3 | 4185.1 | 4013.8 | 3810.6 | 3683.3 | 3568.3 | 3575.7 |
| 42.5° | 8017.8 | 7672.6 | 5834.7 | 4390.7 | 4038.3 | 3893.9 | 3661.4 | 3423.9 | 3223.2 | 3032.4 | 3015.2 |
| 45° | 8798.5 | 8233.1 | 5700.0 | 4072.5 | 3712.8 | 3570.8 | 3318.7 | 3051.9 | 2824.3 | 2579.6 | 2550.2 |
| 47.5° | 9924.4 | 8987.0 | 5572.8 | 3710.3 | 3370.1 | 3240.4 | 3012.8 | 2765.6 | 2496.4 | 2259.0 | 2232.0 |
| 50° | 11471.1 | 10068.7 | 5455.4 | 3357.9 | 3032.4 | 2934.5 | 2753.4 | 2501.3 | 2229.6 | 2038.7 | 2026.4 |
| 52.5° | 13438.8 | 11539.7 | 5406.4 | 3017.7 | 2716.7 | 2680.0 | 2535.5 | 2300.6 | 2043.6 | 1882.1 | 1869.8 |
| 55° | 15697.8 | 13299.3 | 5406.4 | 2692.2 | 2440.1 | 2452.3 | 2352.0 | 2134.2 | 1911.4 | 1767.0 | 1752.3 |
| 57.5° | 18003.3 | 15081.0 | 5308.5 | 2391.1 | 2205.1 | 2256.5 | 2192.9 | 2002.0 | 1801.3 | 1652.0 | 1627.5 |
| 60° | 20127.6 | 16573.9 | 4912.0 | 2117.0 | 1997.1 | 2077.9 | 2036.3 | 1872.3 | 1627.5 | 1502.8 | 1483.2 |
| 62.5° | 21760.0 | 17415.9 | 4148.4 | 1899.2 | 1825.7 | 1918.8 | 1896.8 | 1701.0 | 1595.7 | 1544.4 | 1527.1 |
| 65° | 22577.5 | 17278.8 | 3171.9 | 1705.9 | 1681.4 | 1825.7 | 1779.3 | 1771.9 | 1688.7 | 1630.0 | 1610.4 |
| 67.5° | 22075.8 | 16099.2 | 2300.6 | 1563.9 | 1598.2 | 1740.1 | 1918.8 | 1948.1 | 1794.0 | 1679.0 | 1659.4 |
| 70° | 19875.6 | 13965.0 | 1713.2 | 1429.3 | 1492.9 | 1742.6 | 2188.0 | 2038.7 | 1759.7 | 1625.1 | 1603.1 |
| 72.5° | 15120.2 | 10413.8 | 1328.9 | 1287.3 | 1355.9 | 1754.8 | 2307.9 | 1997.1 | 1661.8 | 1796.4 | 1781.8 |
| 75° | 8646.8 | 5717.1 | 1067.1 | 1113.6 | 1184.6 | 1639.8 | 2246.7 | 1889.4 | 1586.0 | 1649.5 | 1649.5 |
| 77.5° | 3296.7 | 2197.8 | 881.1 | 942.3 | 952.0 | 1431.7 | 2148.8 | 1882.1 | 1510.0 | 1473.3 | 1343.7 |
| 80° | 1143.0 | 859.1 | 729.3 | 748.9 | 736.7 | 1272.6 | 2060.8 | 1637.3 | 1235.9 | 1106.3 | 1069.5 |
| 82.5° | 467.5 | 428.3 | 577.6 | 553.1 | 523.8 | 988.7 | 1664.3 | 1338.8 | 1010.8 | 893.3 | 883.6 |
| 85° | 203.2 | 271.6 | 381.8 | 335.3 | 303.5 | 685.3 | 1333.8 | 1133.1 | 854.1 | 736.7 | 734.2 |
| 87.5° | 41.6 | 102.8 | 161.5 | 151.7 | 156.6 | 457.7 | 947.2 | 805.2 | 604.5 | 452.7 | 354.9 |
| 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)