

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: P970885

Luminaire Tested: **NVN-SB6C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46143.4 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

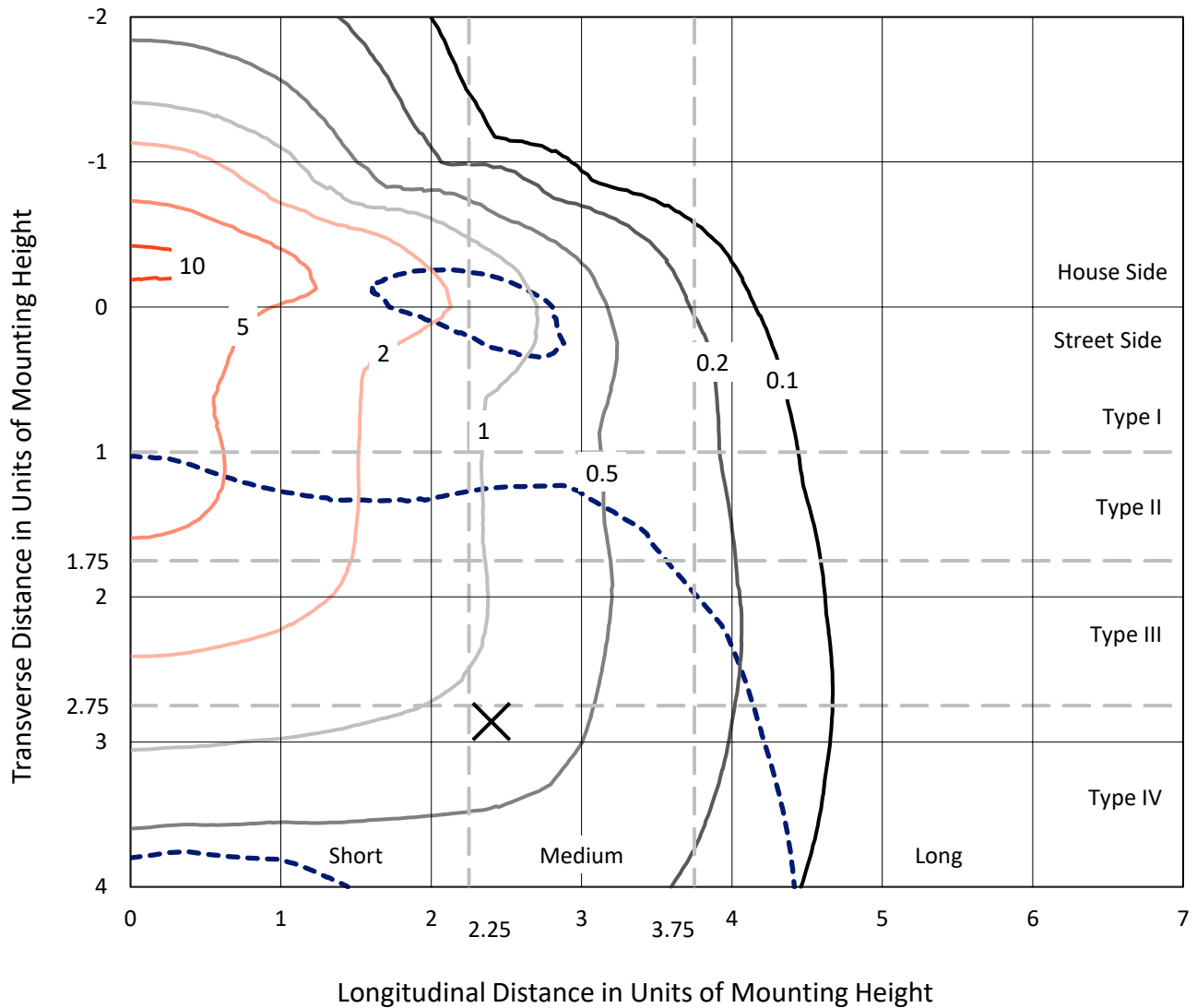
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

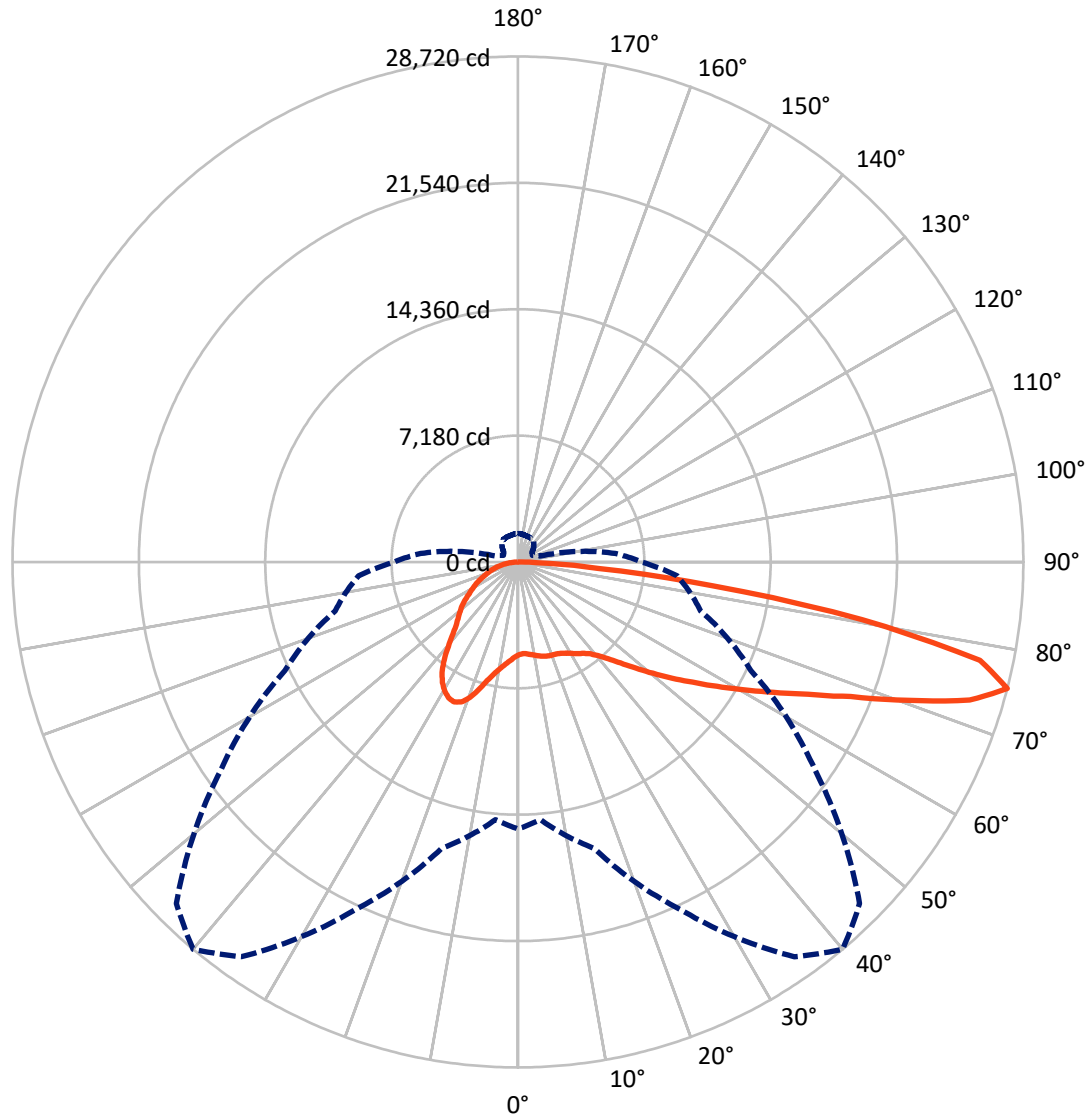
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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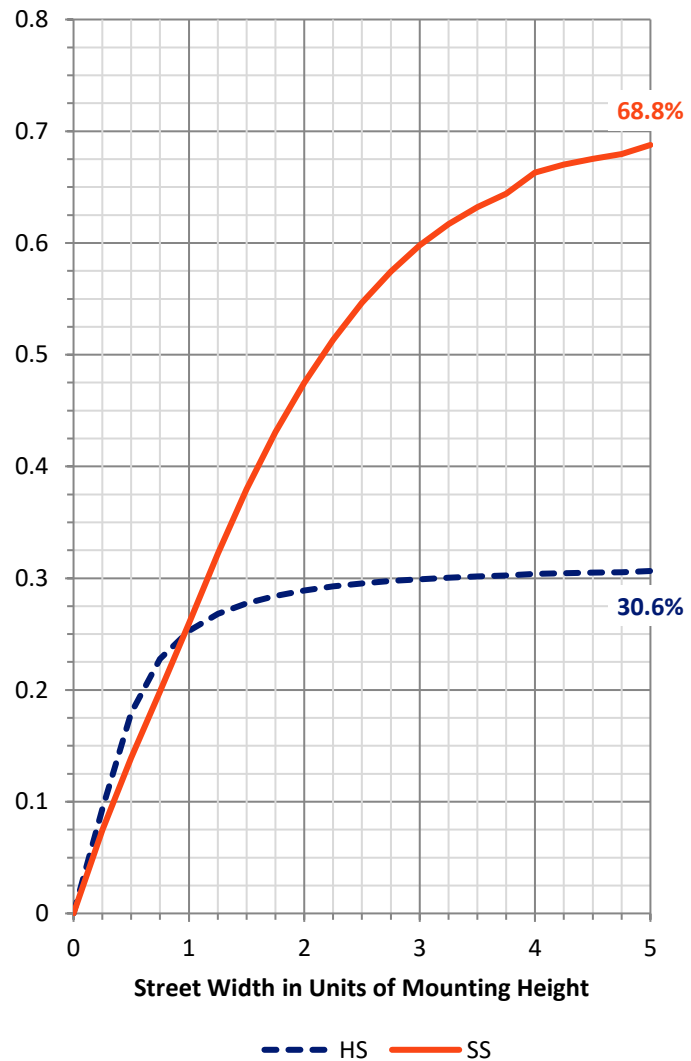
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14296.8 | 0.0 | 14296.8 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 31846.7 | 0.0 | 31846.7 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 46143.4 | 0.0 | 46143.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 526.7 | 1.1 |
| 10°-20° | 1768.4 | 3.8 |
| 20°-30° | 3228.9 | 7.0 |
| 30°-40° | 4579.5 | 9.9 |
| 40°-50° | 6183.7 | 13.4 |
| 50°-60° | 8318.7 | 18.0 |
| 60°-70° | 10558.4 | 22.9 |
| 70°-80° | 9582.4 | 20.8 |
| 80°-90° | 1396.8 | 3.0 |
| 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° | 46143.4 | 100.0 |
| 0°-180° | 46143.4 | 100.0 |

Coefficient of Utilization



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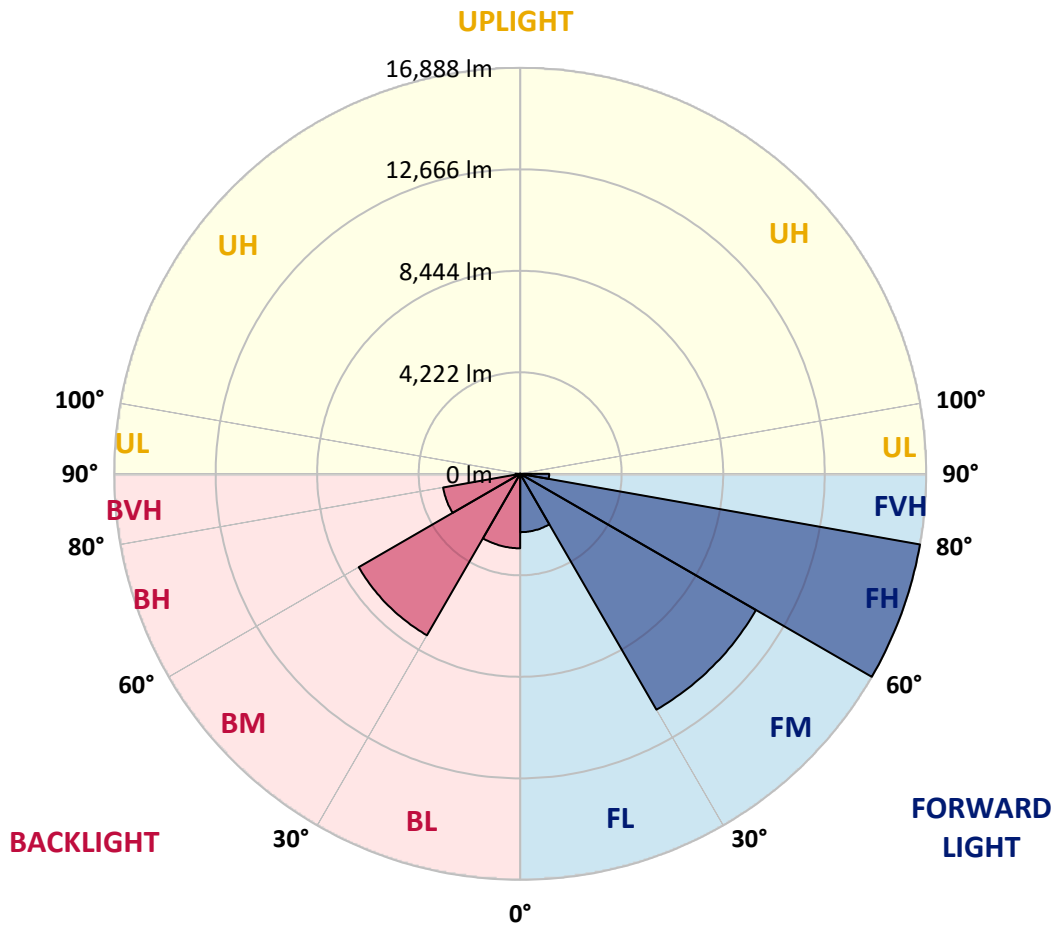
CATALOG NUMBER: NVN-SB6C-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2427.2 | 5.3 | | | |
| FM (30°-60°) | 11327.2 | 24.5 | | | |
| FH (60°-80°) | 16887.8 | 36.6 | | | G5 |
| FVH (80°-90°) | 1204.5 | 2.6 | | | G5 |
| BL (0°-30°) | 3096.8 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 7754.7 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 3252.9 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 192.3 | 0.4 | | | G2/225 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 |
| 2.5° | 5195.8 | 5225.1 | 5217.9 | 5208.0 | 5208.0 | 5210.5 | 5208.0 | 5225.1 | 5242.3 | 5259.5 | 5286.3 |
| 5° | 5249.6 | 5279.1 | 5264.3 | 5252.1 | 5242.3 | 5239.9 | 5232.5 | 5230.1 | 5239.9 | 5261.8 | 5298.6 |
| 7.5° | 5354.9 | 5384.2 | 5362.2 | 5340.1 | 5320.6 | 5310.8 | 5301.0 | 5286.3 | 5279.1 | 5291.3 | 5342.6 |
| 10° | 5472.4 | 5501.7 | 5474.8 | 5435.7 | 5403.8 | 5391.6 | 5381.8 | 5367.1 | 5357.4 | 5364.6 | 5420.9 |
| 12.5° | 5589.8 | 5619.2 | 5582.5 | 5528.6 | 5487.0 | 5479.6 | 5467.5 | 5462.5 | 5460.1 | 5457.7 | 5514.0 |
| 15° | 5699.9 | 5724.4 | 5678.0 | 5614.3 | 5570.3 | 5558.1 | 5545.8 | 5553.1 | 5565.3 | 5580.0 | 5643.6 |
| 17.5° | 5785.6 | 5810.1 | 5741.5 | 5658.3 | 5616.8 | 5611.9 | 5604.5 | 5629.0 | 5663.2 | 5699.9 | 5778.2 |
| 20° | 5863.9 | 5888.4 | 5800.3 | 5687.7 | 5638.7 | 5638.7 | 5641.2 | 5692.6 | 5741.5 | 5795.5 | 5903.1 |
| 22.5° | 5974.1 | 5993.7 | 5886.0 | 5731.8 | 5660.8 | 5665.7 | 5685.3 | 5736.7 | 5797.8 | 5871.3 | 6020.5 |
| 25° | 6138.0 | 6152.8 | 6020.5 | 5815.0 | 5734.3 | 5748.9 | 5766.0 | 5790.5 | 5849.3 | 5935.0 | 6135.5 |
| 27.5° | 6402.4 | 6414.6 | 6240.8 | 5961.8 | 5839.4 | 5863.9 | 5888.4 | 5871.3 | 5898.2 | 5971.6 | 6228.6 |
| 30° | 6774.3 | 6781.7 | 6561.4 | 6191.9 | 6018.1 | 6030.4 | 6035.3 | 5964.3 | 5912.9 | 5971.6 | 6294.6 |
| 32.5° | 7214.9 | 7212.4 | 6950.6 | 6470.9 | 6221.2 | 6209.0 | 6167.4 | 6027.9 | 5908.0 | 5959.3 | 6353.5 |
| 35° | 7897.7 | 7870.8 | 7533.0 | 6862.5 | 6451.3 | 6375.4 | 6277.5 | 6098.9 | 5932.5 | 5947.2 | 6404.8 |
| 37.5° | 9028.4 | 8945.2 | 8477.8 | 7503.7 | 6793.9 | 6600.6 | 6456.2 | 6214.0 | 5986.3 | 5942.2 | 6466.0 |
| 40° | 10303.5 | 10198.2 | 9684.3 | 8382.3 | 7307.9 | 6997.1 | 6764.6 | 6377.9 | 6074.5 | 5964.3 | 6556.5 |
| 42.5° | 11816.0 | 11666.7 | 11113.6 | 9417.5 | 7958.9 | 7508.5 | 7158.6 | 6585.9 | 6204.1 | 6035.3 | 6678.9 |
| 45° | 13673.5 | 13475.3 | 12692.2 | 10585.0 | 8778.8 | 8179.2 | 7711.7 | 6901.6 | 6402.4 | 6172.3 | 6862.5 |
| 47.5° | 15550.7 | 15599.7 | 14486.1 | 11921.3 | 9762.6 | 9006.4 | 8404.3 | 7376.4 | 6691.2 | 6392.6 | 7158.6 |
| 50° | 17545.3 | 17579.6 | 16270.2 | 13401.9 | 10878.6 | 9941.3 | 9182.6 | 7907.5 | 7092.5 | 6705.9 | 7601.6 |
| 52.5° | 19101.9 | 19106.7 | 17890.4 | 14951.1 | 12041.2 | 10969.1 | 10022.0 | 8514.5 | 7557.5 | 7121.9 | 8191.4 |
| 55° | 20076.0 | 20063.7 | 19025.9 | 16417.1 | 13377.4 | 12048.5 | 10952.0 | 9204.6 | 8125.3 | 7611.3 | 8933.0 |
| 57.5° | 20783.2 | 20746.5 | 19809.1 | 17677.5 | 14801.8 | 13323.6 | 12004.4 | 9987.8 | 8795.9 | 8193.8 | 9909.5 |
| 60° | 21052.4 | 21030.4 | 20340.2 | 18766.5 | 16299.6 | 14733.2 | 13218.3 | 10864.0 | 9557.0 | 8881.5 | 11165.0 |
| 62.5° | 21155.2 | 21196.8 | 20861.5 | 19821.3 | 17902.6 | 16294.7 | 14552.1 | 11911.4 | 10413.6 | 9659.8 | 12489.0 |
| 65° | 21517.4 | 21593.3 | 21524.8 | 21201.7 | 19713.7 | 18122.9 | 16321.6 | 13157.1 | 11348.5 | 10494.4 | 13871.7 |
| 67.5° | 22234.5 | 22310.4 | 22339.8 | 22853.7 | 21926.2 | 20401.4 | 18529.1 | 14708.7 | 12442.5 | 11360.8 | 14911.9 |
| 70° | 22217.4 | 22195.4 | 22714.2 | 24168.0 | 24696.6 | 23556.1 | 21505.2 | 16617.7 | 13747.0 | 12080.3 | 15044.1 |
| 72.5° | 20222.7 | 20046.5 | 21272.6 | 24153.3 | 27002.0 | 26850.3 | 25139.6 | 19079.9 | 14872.7 | 12168.4 | 13054.4 |
| 75° | 15171.3 | 14701.5 | 16867.4 | 21767.1 | 27386.3 | 28720.1 | 27449.9 | 20607.0 | 14606.0 | 10751.3 | 9084.7 |
| 77.5° | 6488.0 | 6015.7 | 8568.3 | 16113.6 | 24510.6 | 26847.8 | 25330.4 | 17978.5 | 11659.4 | 7109.7 | 4461.6 |
| 80° | 1698.5 | 1696.1 | 2589.4 | 7305.5 | 16669.2 | 19826.3 | 17393.5 | 11610.4 | 6661.8 | 2540.4 | 1231.0 |
| 82.5° | 702.4 | 685.3 | 952.0 | 2841.4 | 8144.9 | 11125.9 | 9079.8 | 5178.7 | 2405.8 | 687.7 | 408.7 |
| 85° | 261.9 | 259.4 | 462.6 | 981.4 | 2873.3 | 4588.8 | 3321.1 | 1324.0 | 599.6 | 335.3 | 183.6 |
| 87.5° | 73.4 | 70.9 | 100.3 | 340.2 | 700.0 | 1062.2 | 567.7 | 217.8 | 168.9 | 132.1 | 53.8 |
| 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° | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 | 5276.6 |
| 2.5° | 5293.7 | 5305.9 | 5328.0 | 5345.1 | 5367.1 | 5391.6 | 5425.8 | 5447.9 | 5469.9 | 5484.6 | 5474.8 |
| 5° | 5315.8 | 5342.6 | 5399.0 | 5455.3 | 5521.3 | 5582.5 | 5653.5 | 5704.8 | 5746.5 | 5758.7 | 5763.6 |
| 7.5° | 5364.6 | 5408.7 | 5504.1 | 5599.6 | 5704.8 | 5805.2 | 5908.0 | 5996.1 | 6067.1 | 6094.0 | 6096.4 |
| 10° | 5450.3 | 5509.1 | 5643.6 | 5778.2 | 5917.7 | 6072.0 | 6204.1 | 6331.4 | 6431.8 | 6473.4 | 6475.7 |
| 12.5° | 5558.1 | 5631.5 | 5807.6 | 5993.7 | 6187.0 | 6399.9 | 6571.3 | 6727.9 | 6852.6 | 6909.0 | 6909.0 |
| 15° | 5697.6 | 5793.0 | 6018.1 | 6267.8 | 6551.7 | 6847.8 | 7065.6 | 7239.4 | 7378.9 | 7447.4 | 7442.5 |
| 17.5° | 5849.3 | 5976.5 | 6260.4 | 6637.3 | 7043.6 | 7432.7 | 7687.2 | 7814.5 | 7958.9 | 8024.9 | 8022.6 |
| 20° | 5996.1 | 6152.8 | 6559.0 | 7107.2 | 7648.0 | 8061.7 | 8267.2 | 8301.6 | 8311.3 | 8318.7 | 8338.3 |
| 22.5° | 6147.8 | 6358.3 | 6933.4 | 7699.5 | 8279.5 | 8565.8 | 8595.2 | 8448.4 | 8242.8 | 8147.3 | 8174.3 |
| 25° | 6314.3 | 6593.2 | 7422.9 | 8352.9 | 8822.8 | 8857.1 | 8631.9 | 8274.6 | 7885.5 | 7706.8 | 7733.7 |
| 27.5° | 6475.7 | 6864.9 | 8010.3 | 8977.1 | 9214.4 | 8913.4 | 8428.8 | 7922.2 | 7452.3 | 7263.9 | 7285.9 |
| 30° | 6637.3 | 7175.7 | 8658.9 | 9522.8 | 9393.1 | 8773.9 | 8108.2 | 7542.9 | 7070.4 | 6872.2 | 6894.3 |
| 32.5° | 6801.3 | 7538.0 | 9405.3 | 9916.8 | 9361.2 | 8477.8 | 7709.2 | 7117.0 | 6700.9 | 6493.0 | 6519.8 |
| 35° | 6987.3 | 7983.4 | 10112.6 | 10132.2 | 9148.3 | 8042.2 | 7183.1 | 6608.0 | 6245.7 | 6079.3 | 6116.0 |
| 37.5° | 7229.5 | 8548.7 | 10736.7 | 10186.0 | 8776.4 | 7403.4 | 6529.7 | 6005.9 | 5707.3 | 5631.5 | 5685.3 |
| 40° | 7530.6 | 9229.1 | 11213.9 | 10100.3 | 8225.6 | 6627.5 | 5815.0 | 5396.5 | 5227.6 | 5244.7 | 5303.5 |
| 42.5° | 7922.2 | 9990.3 | 11549.2 | 9880.1 | 7459.6 | 5827.2 | 5188.4 | 5002.4 | 5083.2 | 5151.8 | 5215.4 |
| 45° | 8431.2 | 10780.7 | 11757.3 | 9505.6 | 6593.2 | 5149.3 | 4818.9 | 4862.9 | 4924.1 | 4931.5 | 4980.5 |
| 47.5° | 9082.2 | 11581.1 | 11894.3 | 8940.3 | 5709.8 | 4672.1 | 4584.0 | 4593.7 | 4581.5 | 4530.1 | 4569.2 |
| 50° | 9894.7 | 12359.3 | 12016.7 | 8191.4 | 4958.4 | 4373.5 | 4256.0 | 4221.8 | 4052.8 | 3886.5 | 3908.4 |
| 52.5° | 10819.9 | 13074.0 | 12068.0 | 7261.4 | 4373.5 | 4123.9 | 3932.9 | 3717.6 | 3401.9 | 3350.5 | 3367.6 |
| 55° | 11847.8 | 13734.7 | 11935.9 | 6118.4 | 3881.6 | 3803.3 | 3514.4 | 3255.0 | 3220.8 | 3176.7 | 3184.1 |
| 57.5° | 13076.3 | 14447.0 | 11666.7 | 4843.3 | 3377.4 | 3428.8 | 3147.4 | 3176.7 | 3115.5 | 3047.0 | 3034.7 |
| 60° | 14420.0 | 15183.6 | 11194.3 | 3680.9 | 2856.1 | 2961.3 | 3051.9 | 3049.5 | 3032.4 | 2976.0 | 2956.4 |
| 62.5° | 15629.0 | 15668.1 | 10264.3 | 2819.4 | 2398.4 | 2599.1 | 2846.3 | 2843.9 | 2829.2 | 2797.3 | 2785.1 |
| 65° | 16348.5 | 15594.8 | 8712.7 | 2219.7 | 2021.5 | 2300.5 | 2567.3 | 2586.9 | 2589.4 | 2586.9 | 2586.9 |
| 67.5° | 16221.2 | 14735.7 | 6583.5 | 1767.0 | 1710.7 | 1997.1 | 2290.8 | 2317.6 | 2337.2 | 2342.1 | 2347.0 |
| 70° | 14782.2 | 12848.8 | 4292.7 | 1409.7 | 1434.2 | 1730.3 | 2028.9 | 2055.8 | 2073.0 | 2092.5 | 2102.3 |
| 72.5° | 11522.3 | 9446.9 | 2457.1 | 1140.5 | 1191.9 | 1500.3 | 1769.5 | 1801.2 | 1811.1 | 1847.8 | 1862.4 |
| 75° | 7021.6 | 5555.6 | 1326.5 | 898.2 | 979.0 | 1282.5 | 1512.5 | 1549.2 | 1566.3 | 1610.4 | 1615.3 |
| 77.5° | 3338.2 | 2405.8 | 756.2 | 700.0 | 788.0 | 1047.4 | 1277.6 | 1319.2 | 1272.6 | 1297.1 | 1277.6 |
| 80° | 1128.2 | 893.3 | 477.2 | 533.5 | 602.1 | 817.4 | 1023.1 | 1064.6 | 966.7 | 961.9 | 952.0 |
| 82.5° | 394.0 | 362.2 | 303.5 | 354.9 | 389.1 | 585.0 | 773.4 | 827.2 | 719.6 | 717.1 | 682.9 |
| 85° | 154.2 | 146.9 | 168.9 | 193.3 | 232.5 | 359.8 | 509.0 | 536.0 | 443.0 | 357.3 | 352.4 |
| 87.5° | 31.8 | 34.2 | 41.6 | 44.1 | 70.9 | 124.8 | 183.6 | 225.2 | 178.7 | 151.7 | 139.5 |
| 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)