

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: LUMARK

Report Number: P970978

Luminaire Tested: **NAV-SB6C-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970978
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: LUMARK
Catalog Number: NAV-SB6C-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 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: 48817.7 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

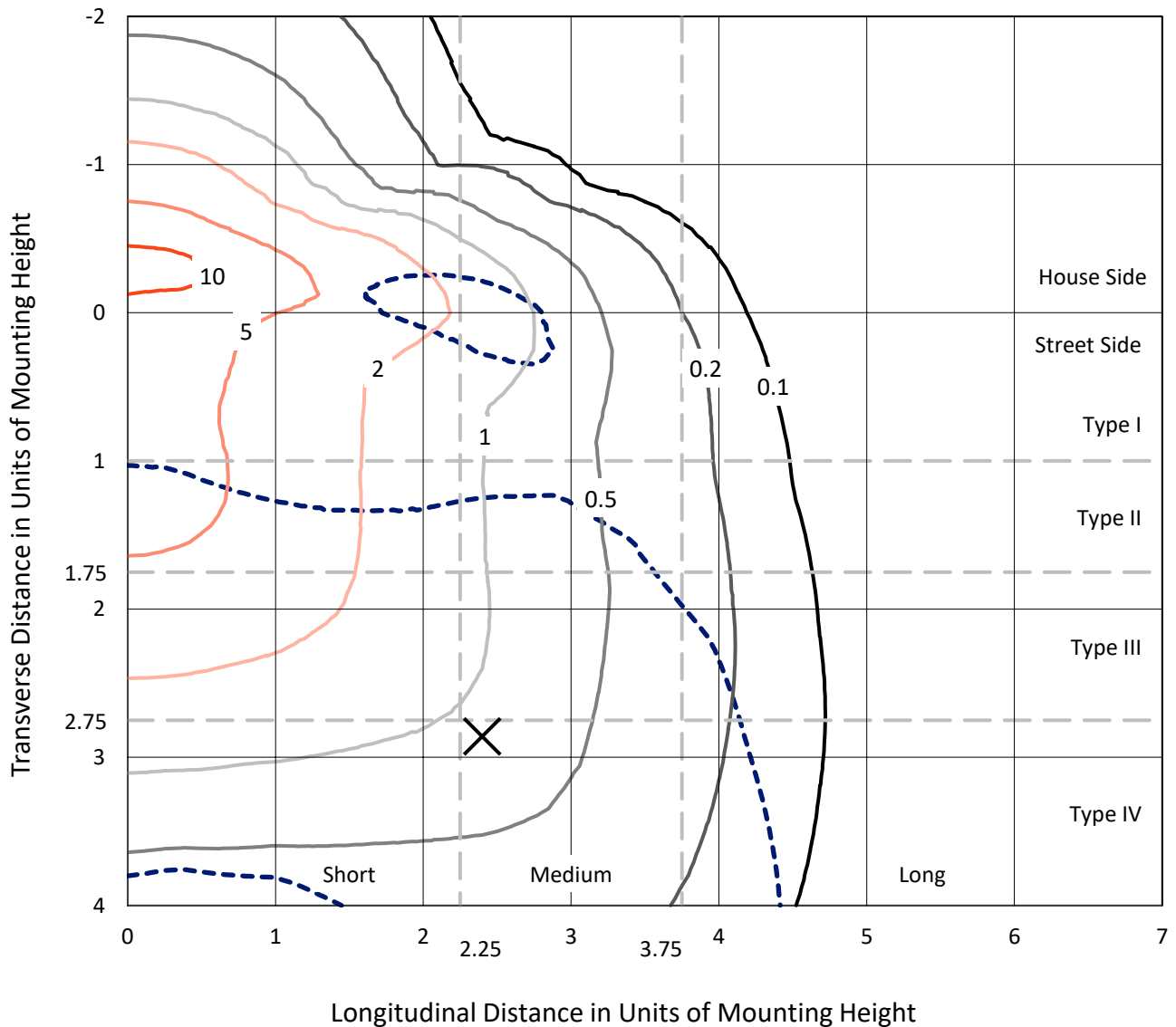
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

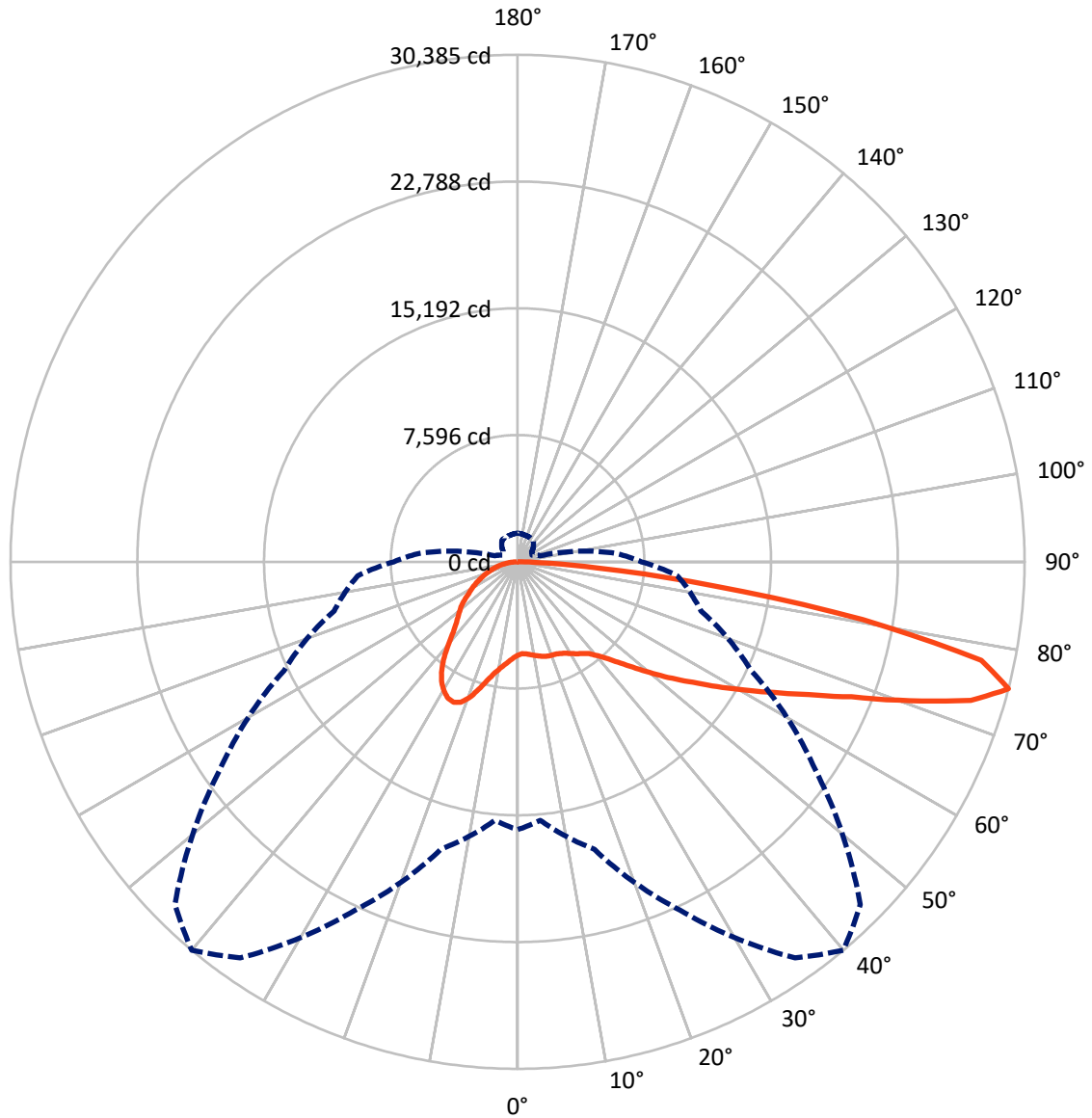
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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 | 15125.3 | 0.0 | 15125.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 33692.3 | 0.0 | 33692.3 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 48817.7 | 0.0 | 48817.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 557.2 | 1.1 |
| 10°-20° | 1870.9 | 3.8 |
| 20°-30° | 3416.0 | 7.0 |
| 30°-40° | 4844.9 | 9.9 |
| 40°-50° | 6542.1 | 13.4 |
| 50°-60° | 8800.8 | 18.0 |
| 60°-70° | 11170.3 | 22.9 |
| 70°-80° | 10137.7 | 20.8 |
| 80°-90° | 1477.8 | 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° | 48817.7 | 100.0 |
| 0°-180° | 48817.7 | 100.0 |

Coefficient of Utilization

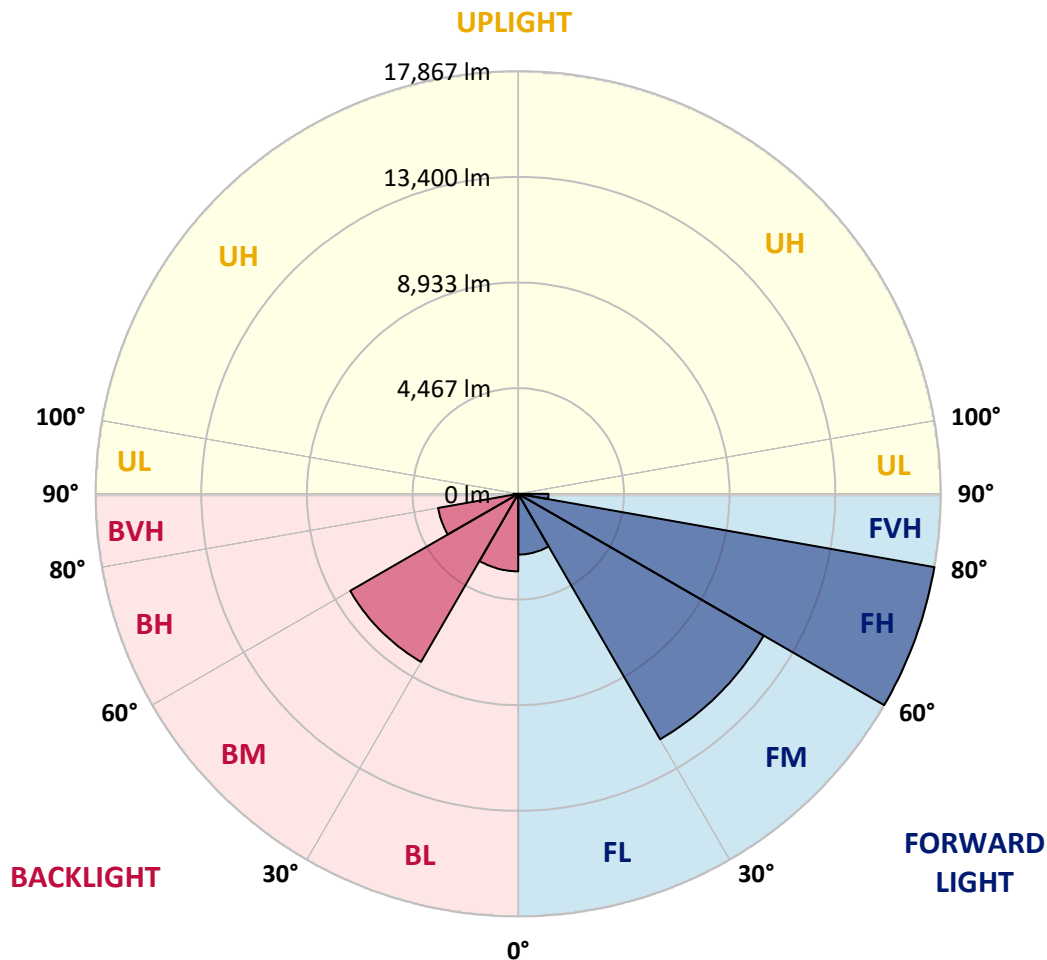


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2567.9 | 5.3 | | | |
| FM (30°-60°) | 11983.6 | 24.5 | | | |
| FH (60°-80°) | 17866.5 | 36.6 | | | G5 |
| FVH (80°-90°) | 1274.3 | 2.6 | | | G5 |
| BL (0°-30°) | 3276.3 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 8204.1 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 3441.5 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 203.4 | 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° | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 |
| 2.5° | 5497.0 | 5528.0 | 5520.2 | 5509.9 | 5509.9 | 5512.4 | 5509.9 | 5528.0 | 5546.1 | 5564.2 | 5592.7 |
| 5° | 5553.9 | 5584.9 | 5569.4 | 5556.5 | 5546.1 | 5543.5 | 5535.7 | 5533.2 | 5543.5 | 5566.9 | 5605.6 |
| 7.5° | 5665.2 | 5696.3 | 5673.0 | 5649.7 | 5629.0 | 5618.6 | 5608.3 | 5592.7 | 5584.9 | 5597.9 | 5652.3 |
| 10° | 5789.5 | 5820.6 | 5792.1 | 5750.7 | 5717.0 | 5704.0 | 5693.7 | 5678.2 | 5667.8 | 5675.5 | 5735.1 |
| 12.5° | 5913.7 | 5944.9 | 5906.0 | 5849.1 | 5805.1 | 5797.3 | 5784.3 | 5779.2 | 5776.6 | 5773.9 | 5833.5 |
| 15° | 6030.3 | 6056.2 | 6007.0 | 5939.7 | 5893.0 | 5880.1 | 5867.2 | 5875.0 | 5887.9 | 5903.4 | 5970.7 |
| 17.5° | 6120.9 | 6146.8 | 6074.4 | 5986.3 | 5942.2 | 5937.1 | 5929.3 | 5955.2 | 5991.4 | 6030.3 | 6113.2 |
| 20° | 6203.8 | 6229.6 | 6136.5 | 6017.4 | 5965.6 | 5965.6 | 5968.2 | 6022.5 | 6074.4 | 6131.2 | 6245.2 |
| 22.5° | 6320.3 | 6341.0 | 6227.1 | 6064.0 | 5988.9 | 5994.1 | 6014.8 | 6069.1 | 6133.9 | 6211.5 | 6369.5 |
| 25° | 6493.8 | 6509.3 | 6369.5 | 6151.9 | 6066.6 | 6082.0 | 6100.2 | 6126.1 | 6188.2 | 6278.8 | 6491.2 |
| 27.5° | 6773.4 | 6786.3 | 6602.5 | 6307.3 | 6177.9 | 6203.8 | 6229.6 | 6211.5 | 6240.0 | 6317.7 | 6589.6 |
| 30° | 7167.0 | 7174.7 | 6941.7 | 6550.8 | 6366.9 | 6379.8 | 6385.0 | 6309.9 | 6255.6 | 6317.7 | 6659.5 |
| 32.5° | 7633.1 | 7630.4 | 7353.4 | 6845.9 | 6581.8 | 6568.8 | 6524.8 | 6377.2 | 6250.3 | 6304.8 | 6721.6 |
| 35° | 8355.4 | 8326.9 | 7969.6 | 7260.2 | 6825.2 | 6744.9 | 6641.4 | 6452.4 | 6276.3 | 6291.9 | 6776.0 |
| 37.5° | 9551.7 | 9463.6 | 8969.1 | 7938.5 | 7187.7 | 6983.1 | 6830.4 | 6574.0 | 6333.3 | 6286.6 | 6840.7 |
| 40° | 10900.7 | 10789.3 | 10245.6 | 8868.1 | 7731.5 | 7402.6 | 7156.7 | 6747.5 | 6426.4 | 6309.9 | 6936.5 |
| 42.5° | 12500.8 | 12342.8 | 11757.7 | 9963.3 | 8420.2 | 7943.7 | 7573.5 | 6967.6 | 6563.7 | 6385.0 | 7066.0 |
| 45° | 14466.0 | 14256.3 | 13427.7 | 11198.4 | 9287.5 | 8653.2 | 8158.7 | 7301.6 | 6773.4 | 6530.1 | 7260.2 |
| 47.5° | 16452.0 | 16503.7 | 15325.6 | 12612.1 | 10328.4 | 9528.3 | 8891.4 | 7803.9 | 7079.0 | 6763.1 | 7573.5 |
| 50° | 18562.1 | 18598.4 | 17213.1 | 14178.6 | 11509.1 | 10517.4 | 9714.7 | 8365.7 | 7503.6 | 7094.4 | 8042.2 |
| 52.5° | 20208.9 | 20214.0 | 18927.2 | 15817.6 | 12739.0 | 11604.9 | 10602.9 | 9007.9 | 7995.5 | 7534.7 | 8666.2 |
| 55° | 21239.4 | 21226.4 | 20128.6 | 17368.5 | 14152.7 | 12746.8 | 11586.8 | 9738.1 | 8596.3 | 8052.5 | 9450.7 |
| 57.5° | 21987.7 | 21948.8 | 20957.1 | 18701.9 | 15659.6 | 14095.7 | 12700.2 | 10566.6 | 9305.7 | 8668.7 | 10483.8 |
| 60° | 22272.5 | 22249.2 | 21519.1 | 19854.1 | 17244.2 | 15587.2 | 13984.4 | 11493.5 | 10110.9 | 9396.3 | 11812.0 |
| 62.5° | 22381.3 | 22425.3 | 22070.5 | 20970.2 | 18940.2 | 17239.1 | 15395.5 | 12601.8 | 11017.1 | 10219.7 | 13212.8 |
| 65° | 22764.4 | 22844.7 | 22772.2 | 22430.5 | 20856.2 | 19173.2 | 17267.6 | 13919.7 | 12006.2 | 11102.6 | 14675.7 |
| 67.5° | 23523.1 | 23603.4 | 23634.4 | 24178.2 | 23196.9 | 21583.7 | 19603.0 | 15561.2 | 13163.6 | 12019.2 | 15776.2 |
| 70° | 23505.0 | 23481.6 | 24030.6 | 25568.6 | 26127.9 | 24921.2 | 22751.5 | 17580.8 | 14543.6 | 12780.4 | 15916.0 |
| 72.5° | 21394.7 | 21208.4 | 22505.5 | 25553.0 | 28567.0 | 28406.3 | 26596.5 | 20185.6 | 15734.7 | 12873.6 | 13811.0 |
| 75° | 16050.6 | 15553.5 | 17844.9 | 23028.6 | 28973.4 | 30384.6 | 29040.7 | 21801.2 | 15452.5 | 11374.4 | 9611.2 |
| 77.5° | 6864.0 | 6364.3 | 9064.9 | 17047.5 | 25931.1 | 28403.8 | 26798.4 | 19020.4 | 12335.1 | 7521.7 | 4720.1 |
| 80° | 1796.9 | 1794.4 | 2739.4 | 7728.8 | 17635.2 | 20975.3 | 18401.6 | 12283.3 | 7047.9 | 2687.7 | 1302.4 |
| 82.5° | 743.1 | 725.0 | 1007.2 | 3006.1 | 8617.0 | 11770.6 | 9606.0 | 5478.8 | 2545.2 | 727.5 | 432.4 |
| 85° | 277.1 | 274.5 | 489.3 | 1038.3 | 3039.7 | 4854.8 | 3513.6 | 1400.8 | 634.4 | 354.8 | 194.2 |
| 87.5° | 77.7 | 75.1 | 106.2 | 359.9 | 740.6 | 1123.7 | 600.6 | 230.4 | 178.7 | 139.8 | 57.0 |
| 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° | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 | 5582.4 |
| 2.5° | 5600.5 | 5613.4 | 5636.8 | 5654.8 | 5678.2 | 5704.0 | 5740.3 | 5763.6 | 5786.9 | 5802.4 | 5792.1 |
| 5° | 5623.8 | 5652.3 | 5711.8 | 5771.4 | 5841.3 | 5906.0 | 5981.1 | 6035.5 | 6079.5 | 6092.4 | 6097.6 |
| 7.5° | 5675.5 | 5722.2 | 5823.1 | 5924.2 | 6035.5 | 6141.6 | 6250.3 | 6343.6 | 6418.7 | 6447.1 | 6449.7 |
| 10° | 5766.2 | 5828.4 | 5970.7 | 6113.2 | 6260.7 | 6423.9 | 6563.7 | 6698.3 | 6804.5 | 6848.5 | 6851.1 |
| 12.5° | 5880.1 | 5957.8 | 6144.3 | 6341.0 | 6545.5 | 6770.8 | 6952.1 | 7117.8 | 7249.8 | 7309.4 | 7309.4 |
| 15° | 6027.7 | 6128.7 | 6366.9 | 6631.0 | 6931.4 | 7244.6 | 7475.1 | 7658.9 | 7806.5 | 7879.0 | 7873.8 |
| 17.5° | 6188.2 | 6322.9 | 6623.2 | 7022.0 | 7451.7 | 7863.5 | 8132.8 | 8267.3 | 8420.2 | 8490.1 | 8487.5 |
| 20° | 6343.6 | 6509.3 | 6939.1 | 7519.1 | 8091.4 | 8528.9 | 8746.4 | 8782.6 | 8793.0 | 8800.8 | 8821.5 |
| 22.5° | 6504.1 | 6726.8 | 7335.3 | 8145.7 | 8759.3 | 9062.3 | 9093.4 | 8938.0 | 8720.5 | 8619.5 | 8648.0 |
| 25° | 6680.2 | 6975.3 | 7853.1 | 8837.0 | 9334.2 | 9370.4 | 9132.2 | 8754.1 | 8342.5 | 8153.5 | 8182.0 |
| 27.5° | 6851.1 | 7262.7 | 8474.5 | 9497.2 | 9748.5 | 9430.0 | 8917.3 | 8381.3 | 7884.2 | 7684.8 | 7708.1 |
| 30° | 7022.0 | 7591.6 | 9160.6 | 10074.6 | 9937.5 | 9282.4 | 8578.1 | 7980.0 | 7480.2 | 7270.5 | 7293.8 |
| 32.5° | 7195.5 | 7974.8 | 9950.4 | 10491.5 | 9903.8 | 8969.1 | 8156.0 | 7529.4 | 7089.3 | 6869.2 | 6897.7 |
| 35° | 7392.2 | 8446.0 | 10698.6 | 10719.3 | 9678.6 | 8508.2 | 7599.4 | 6990.9 | 6607.7 | 6431.7 | 6470.5 |
| 37.5° | 7648.6 | 9044.2 | 11358.9 | 10776.3 | 9285.0 | 7832.4 | 6908.1 | 6354.0 | 6038.1 | 5957.8 | 6014.8 |
| 40° | 7967.0 | 9763.9 | 11863.9 | 10685.7 | 8702.4 | 7011.6 | 6151.9 | 5709.2 | 5530.6 | 5548.7 | 5610.8 |
| 42.5° | 8381.3 | 10569.2 | 12218.5 | 10452.7 | 7892.0 | 6165.0 | 5489.2 | 5292.4 | 5377.9 | 5450.3 | 5517.7 |
| 45° | 8919.9 | 11405.5 | 12438.6 | 10056.6 | 6975.3 | 5447.8 | 5098.1 | 5144.8 | 5209.6 | 5217.2 | 5269.1 |
| 47.5° | 9608.7 | 12252.2 | 12583.6 | 9458.4 | 6040.6 | 4942.9 | 4849.6 | 4859.9 | 4847.0 | 4792.7 | 4834.1 |
| 50° | 10468.2 | 13075.6 | 12713.1 | 8666.2 | 5245.7 | 4627.0 | 4502.6 | 4466.4 | 4287.8 | 4111.7 | 4135.0 |
| 52.5° | 11447.0 | 13831.7 | 12767.5 | 7682.3 | 4627.0 | 4362.8 | 4160.9 | 3933.0 | 3599.0 | 3544.7 | 3562.8 |
| 55° | 12534.4 | 14530.7 | 12627.7 | 6473.1 | 4106.5 | 4023.6 | 3718.1 | 3443.7 | 3407.4 | 3360.8 | 3368.6 |
| 57.5° | 13834.2 | 15284.2 | 12342.8 | 5124.1 | 3573.2 | 3627.5 | 3329.7 | 3360.8 | 3296.1 | 3223.6 | 3210.6 |
| 60° | 15255.7 | 16063.5 | 11843.2 | 3894.2 | 3021.6 | 3132.9 | 3228.7 | 3226.2 | 3208.0 | 3148.5 | 3127.8 |
| 62.5° | 16534.8 | 16576.2 | 10859.2 | 2982.7 | 2537.5 | 2749.8 | 3011.2 | 3008.7 | 2993.1 | 2959.5 | 2946.6 |
| 65° | 17296.1 | 16498.5 | 9217.6 | 2348.4 | 2138.7 | 2433.9 | 2716.0 | 2736.9 | 2739.4 | 2736.9 | 2736.9 |
| 67.5° | 17161.4 | 15589.7 | 6965.0 | 1869.4 | 1809.8 | 2112.8 | 2423.5 | 2452.0 | 2472.7 | 2477.9 | 2483.1 |
| 70° | 15638.9 | 13593.4 | 4541.5 | 1491.4 | 1517.3 | 1830.5 | 2146.5 | 2174.9 | 2193.1 | 2213.8 | 2224.1 |
| 72.5° | 12190.0 | 9994.4 | 2599.6 | 1206.5 | 1261.0 | 1587.2 | 1872.0 | 1905.7 | 1916.0 | 1954.9 | 1970.4 |
| 75° | 7428.5 | 5877.6 | 1403.3 | 950.3 | 1035.7 | 1356.8 | 1600.1 | 1639.0 | 1657.1 | 1703.8 | 1708.9 |
| 77.5° | 3531.7 | 2545.2 | 800.1 | 740.6 | 833.7 | 1108.2 | 1351.6 | 1395.6 | 1346.4 | 1372.3 | 1351.6 |
| 80° | 1193.6 | 945.0 | 504.9 | 564.5 | 636.9 | 864.8 | 1082.3 | 1126.3 | 1022.7 | 1017.5 | 1007.2 |
| 82.5° | 416.9 | 383.2 | 321.0 | 375.5 | 411.6 | 618.8 | 818.2 | 875.1 | 761.3 | 758.6 | 722.4 |
| 85° | 163.1 | 155.4 | 178.7 | 204.6 | 246.0 | 380.6 | 538.5 | 567.0 | 468.6 | 378.0 | 372.9 |
| 87.5° | 33.6 | 36.3 | 44.0 | 46.6 | 75.1 | 132.0 | 194.2 | 238.2 | 189.0 | 160.5 | 147.6 |
| 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)