

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: P970935

Luminaire Tested: **NAV-SB6C-740-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P970935  
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: LUMARK  
Catalog Number: NAV-SB6C-740-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 49151.8 lumens  
Efficiency: N/A  
Efficacy: 163.3 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

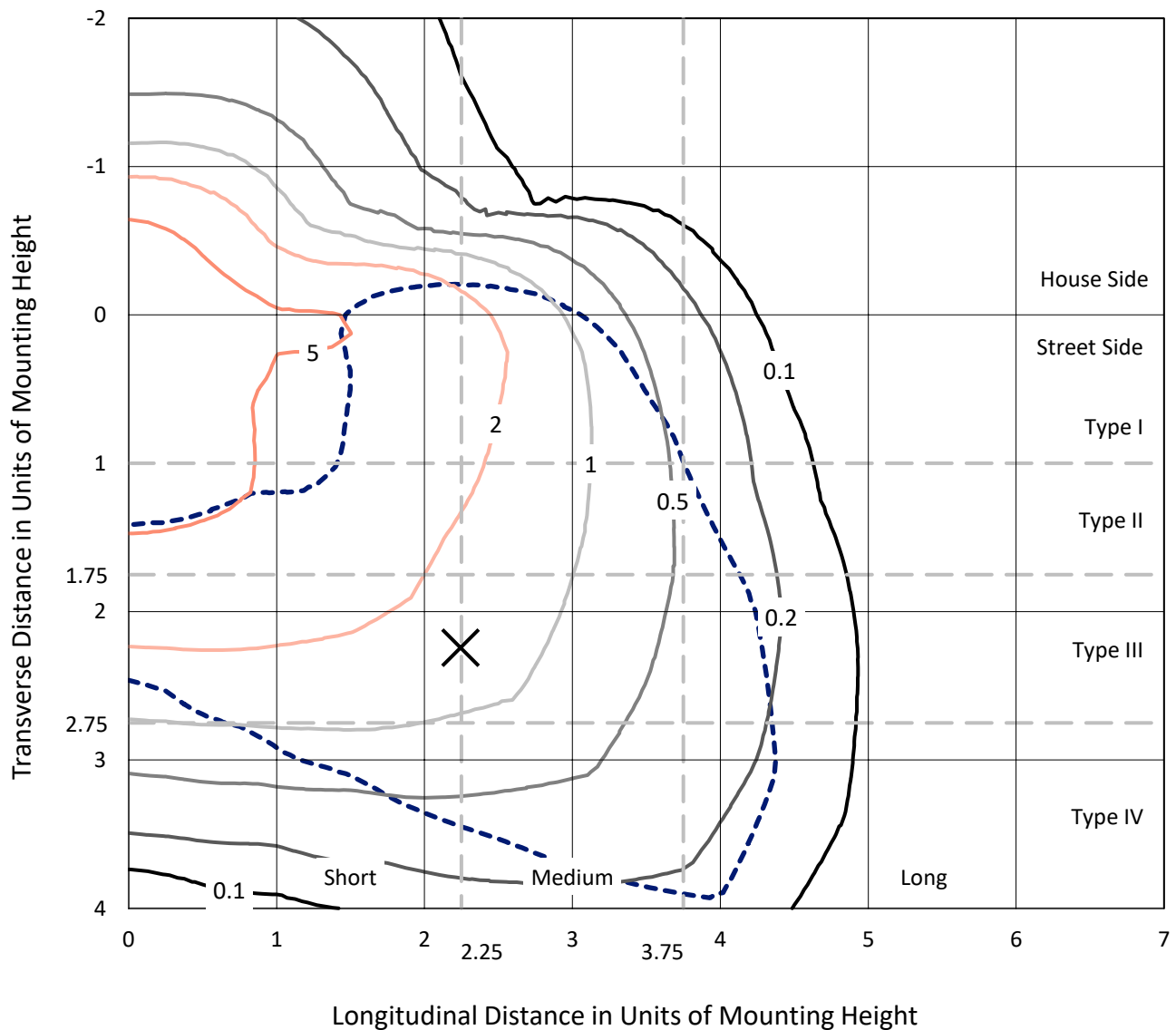


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## Iso-Footcandle Lines of Horizontal Illumination

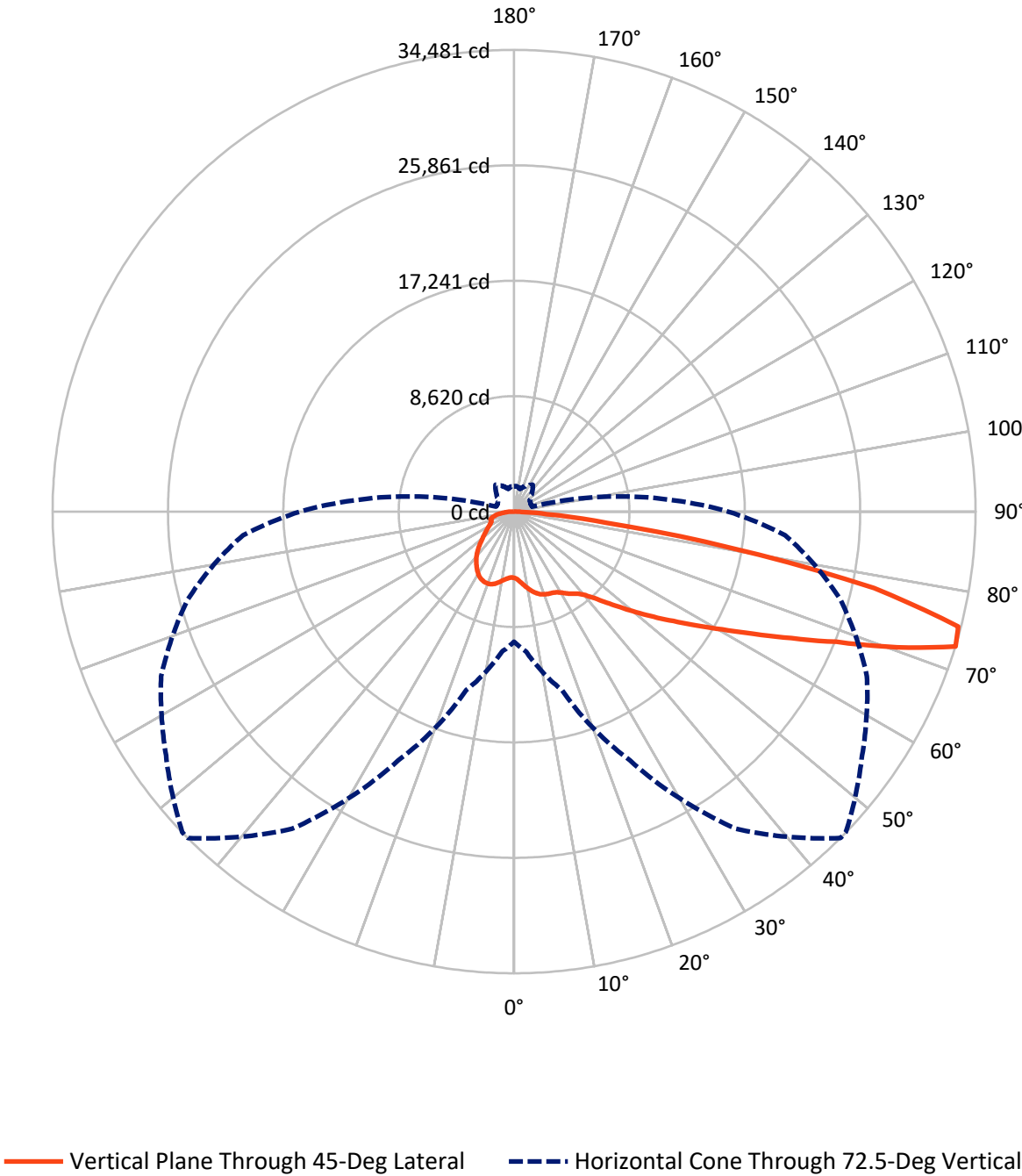
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11111.5  | 0.0    | 11111.5 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 38040.3  | 0.0    | 38040.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 49151.8  | 0.0    | 49151.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 504.7   | 1.0       |
| 10°-20°   | 1682.6  | 3.4       |
| 20°-30°   | 2927.1  | 6.0       |
| 30°-40°   | 4196.1  | 8.5       |
| 40°-50°   | 5908.4  | 12.0      |
| 50°-60°   | 9049.9  | 18.4      |
| 60°-70°   | 13110.1 | 26.7      |
| 70°-80°   | 10469.2 | 21.3      |
| 80°-90°   | 1303.9  | 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°    | 49151.8 | 100.0     |
| 0°-180°   | 49151.8 | 100.0     |

**Coefficient of Utilization**



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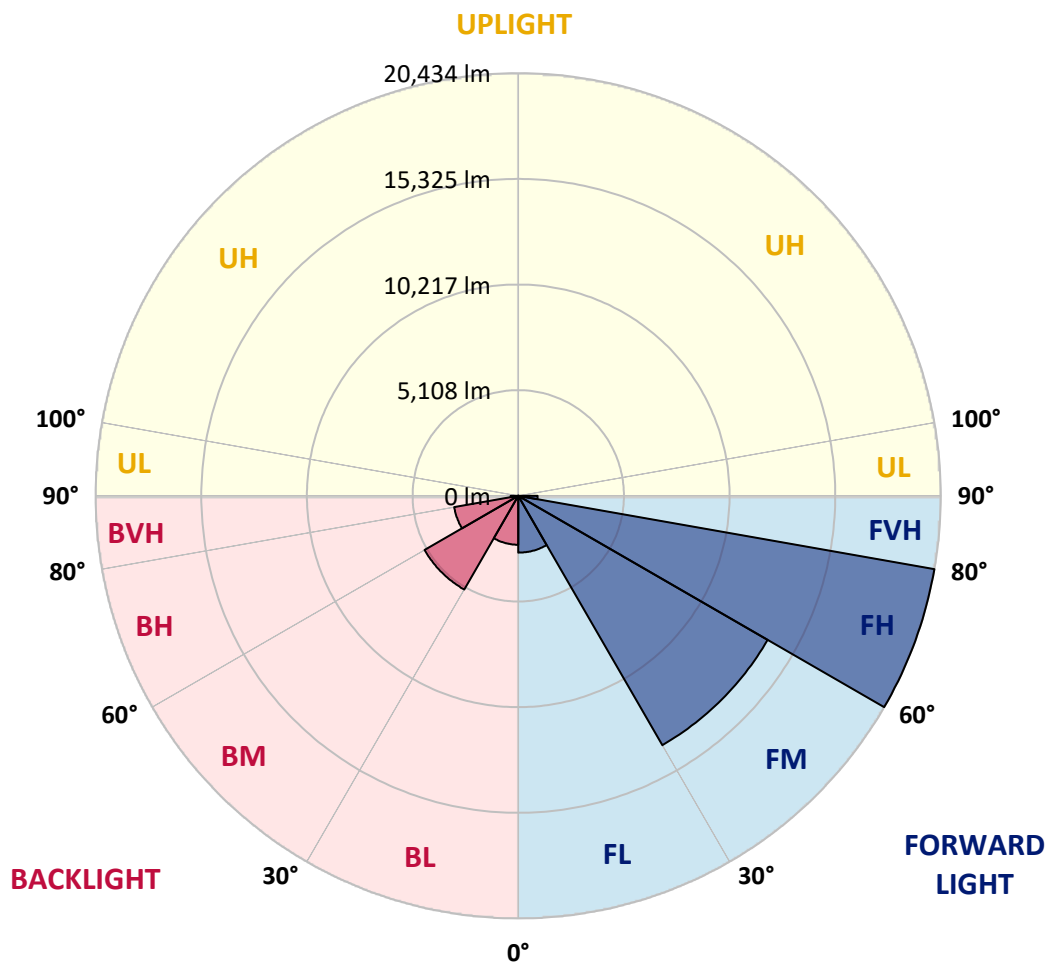
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2748.6  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 13922.4 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 20433.9 | 41.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 935.4   | 1.9       |                         |      | G5      |
| BL   | (0°-30°)    | 2365.7  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5232.0  | 10.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3145.4  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 368.5   | 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°    | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  | 4958.4  |
| 2.5°  | 5152.7  | 5186.3  | 5155.2  | 5126.7  | 5113.8  | 5080.2  | 5077.5  | 5056.8  | 5043.9  | 5007.6  | 4997.3  |
| 5°    | 5512.6  | 5556.6  | 5504.8  | 5447.9  | 5396.0  | 5313.2  | 5302.8  | 5243.3  | 5175.9  | 5098.2  | 5054.3  |
| 7.5°  | 5919.1  | 5957.9  | 5898.4  | 5812.9  | 5722.3  | 5585.0  | 5582.5  | 5473.7  | 5367.6  | 5235.5  | 5160.5  |
| 10°   | 6273.8  | 6325.6  | 6245.3  | 6128.8  | 6014.9  | 5859.5  | 5841.4  | 5717.1  | 5582.5  | 5411.6  | 5297.6  |
| 12.5° | 6587.2  | 6623.3  | 6545.6  | 6403.3  | 6271.3  | 6115.9  | 6092.6  | 5955.4  | 5805.2  | 5611.0  | 5465.9  |
| 15°   | 6835.7  | 6882.3  | 6778.7  | 6625.9  | 6486.1  | 6333.4  | 6312.7  | 6188.3  | 6038.2  | 5833.7  | 5647.2  |
| 17.5° | 6998.8  | 7037.6  | 6931.5  | 6760.6  | 6625.9  | 6499.1  | 6483.5  | 6380.0  | 6247.9  | 6040.7  | 5841.4  |
| 20°   | 7060.9  | 7102.4  | 6991.0  | 6817.6  | 6693.2  | 6594.8  | 6587.2  | 6512.0  | 6421.4  | 6232.4  | 6030.4  |
| 22.5° | 7123.1  | 7162.0  | 7016.9  | 6835.7  | 6727.0  | 6664.8  | 6662.2  | 6613.0  | 6576.8  | 6421.4  | 6224.6  |
| 25°   | 7374.3  | 7384.6  | 7190.4  | 6928.9  | 6773.5  | 6719.2  | 6716.6  | 6714.0  | 6729.5  | 6607.9  | 6434.3  |
| 27.5° | 7591.8  | 7589.2  | 7423.5  | 7177.5  | 6936.7  | 6822.7  | 6820.1  | 6846.1  | 6895.3  | 6794.2  | 6651.8  |
| 30°   | 7910.2  | 7881.7  | 7684.9  | 7428.6  | 7208.5  | 7032.4  | 7016.9  | 6993.7  | 7032.4  | 6952.2  | 6869.3  |
| 32.5° | 8586.0  | 8495.4  | 8176.9  | 7721.2  | 7433.8  | 7299.1  | 7278.4  | 7133.5  | 7149.0  | 7099.8  | 7058.4  |
| 35°   | 9554.4  | 9435.3  | 9010.7  | 8275.3  | 7713.4  | 7521.9  | 7511.5  | 7327.6  | 7296.6  | 7252.6  | 7268.1  |
| 37.5° | 10706.6 | 10559.0 | 10064.5 | 9078.0  | 8195.1  | 7780.8  | 7765.2  | 7599.6  | 7472.7  | 7426.0  | 7514.1  |
| 40°   | 11864.1 | 11677.6 | 11268.5 | 10056.8 | 8904.5  | 8213.2  | 8164.0  | 7912.8  | 7767.9  | 7690.2  | 7876.6  |
| 42.5° | 12987.8 | 12832.5 | 12482.9 | 11154.6 | 9779.7  | 8844.9  | 8736.2  | 8306.4  | 8197.6  | 8125.2  | 8461.8  |
| 45°   | 13982.1 | 13842.3 | 13586.0 | 12327.6 | 10805.0 | 9704.6  | 9598.4  | 8896.8  | 8863.1  | 8863.1  | 9349.8  |
| 47.5° | 14789.9 | 14758.9 | 14487.0 | 13523.7 | 12014.2 | 10683.4 | 10499.5 | 9717.5  | 9808.2  | 9948.0  | 10610.8 |
| 50°   | 15685.8 | 15600.4 | 15310.4 | 14701.9 | 13435.7 | 11804.5 | 11654.4 | 10724.8 | 11064.0 | 11447.2 | 12433.7 |
| 52.5° | 16509.3 | 16555.8 | 16232.2 | 15929.2 | 15041.1 | 13055.1 | 12791.0 | 11913.3 | 12646.0 | 13280.4 | 14569.9 |
| 55°   | 17355.9 | 17358.5 | 17267.9 | 17226.5 | 16724.1 | 14437.8 | 14147.8 | 13342.5 | 14507.7 | 15294.8 | 17060.7 |
| 57.5° | 18150.8 | 18156.0 | 18290.6 | 18655.7 | 18676.4 | 16032.7 | 15703.9 | 15098.0 | 16576.5 | 17379.2 | 19629.3 |
| 60°   | 18860.3 | 18896.5 | 19264.3 | 20118.7 | 20393.1 | 17860.8 | 17550.2 | 17172.0 | 18715.3 | 19523.2 | 22329.9 |
| 62.5° | 19098.5 | 19230.5 | 20048.8 | 21263.1 | 22089.2 | 20103.1 | 19797.6 | 19572.4 | 20962.8 | 21713.7 | 24587.8 |
| 65°   | 18694.6 | 18997.6 | 20579.5 | 22208.3 | 23834.3 | 22767.5 | 22464.5 | 22218.6 | 23298.2 | 24005.2 | 26441.7 |
| 67.5° | 17702.9 | 18093.8 | 20548.5 | 23200.0 | 25952.3 | 25973.0 | 25690.8 | 25113.4 | 25802.1 | 26074.1 | 27044.9 |
| 70°   | 15090.3 | 15675.4 | 18738.5 | 23570.2 | 28383.7 | 30356.7 | 30084.8 | 28598.5 | 28300.8 | 26985.4 | 25346.4 |
| 72.5° | 9722.7  | 10509.8 | 13798.2 | 20522.6 | 28924.8 | 34481.4 | 34465.8 | 31744.6 | 29090.5 | 25214.4 | 20328.4 |
| 75°   | 3547.3  | 4028.9  | 6411.1  | 12881.7 | 24279.6 | 34271.7 | 34372.7 | 31205.9 | 26555.6 | 19476.5 | 12664.2 |
| 77.5° | 1292.0  | 1413.8  | 2092.1  | 4950.6  | 14932.3 | 27498.1 | 27707.8 | 24947.7 | 18901.7 | 9774.5  | 5018.0  |
| 80°   | 678.3   | 745.7   | 1071.9  | 1921.3  | 6398.0  | 16330.6 | 16659.4 | 14826.2 | 8883.8  | 2944.0  | 1504.4  |
| 82.5° | 375.5   | 406.5   | 600.8   | 1043.4  | 2881.9  | 6983.3  | 7180.0  | 5857.0  | 3125.2  | 1248.0  | 621.5   |
| 85°   | 201.9   | 214.9   | 282.2   | 569.6   | 1408.6  | 2420.9  | 2475.4  | 1750.4  | 1245.5  | 732.8   | 300.3   |
| 87.5° | 59.6    | 72.5    | 93.2    | 181.2   | 551.6   | 543.8   | 556.7   | 347.0   | 492.0   | 370.2   | 98.4    |
| 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°    | 4958.4  | 4958.4  | 4958.4 | 4958.4 | 4958.4 | 4958.4 | 4958.4 | 4958.4 | 4958.4 | 4958.4 | 4958.4 |
| 2.5°  | 4981.8  | 4974.0  | 4945.5 | 4932.6 | 4917.0 | 4914.5 | 4927.4 | 4929.9 | 4932.6 | 4935.2 | 4945.5 |
| 5°    | 5028.3  | 5002.5  | 4976.6 | 4961.1 | 4966.2 | 4968.8 | 4994.7 | 5012.9 | 5025.8 | 5036.1 | 5041.4 |
| 7.5°  | 5119.0  | 5098.2  | 5054.3 | 5051.7 | 5059.4 | 5082.8 | 5116.4 | 5157.8 | 5181.2 | 5199.3 | 5204.4 |
| 10°   | 5253.6  | 5214.8  | 5163.0 | 5170.8 | 5186.3 | 5220.0 | 5289.9 | 5323.5 | 5362.4 | 5396.0 | 5388.3 |
| 12.5° | 5390.9  | 5357.2  | 5297.6 | 5302.8 | 5328.8 | 5388.3 | 5455.6 | 5497.1 | 5522.9 | 5548.8 | 5559.2 |
| 15°   | 5569.5  | 5510.0  | 5445.2 | 5445.2 | 5491.8 | 5556.6 | 5587.7 | 5621.3 | 5636.9 | 5665.4 | 5675.7 |
| 17.5° | 5753.3  | 5675.7  | 5590.2 | 5585.0 | 5642.0 | 5673.1 | 5691.2 | 5696.4 | 5701.6 | 5732.6 | 5743.0 |
| 20°   | 5937.2  | 5851.7  | 5730.1 | 5719.7 | 5732.6 | 5727.5 | 5724.9 | 5719.7 | 5727.5 | 5766.3 | 5781.8 |
| 22.5° | 6118.4  | 6020.0  | 5851.7 | 5805.2 | 5768.9 | 5719.7 | 5717.1 | 5714.6 | 5719.7 | 5758.6 | 5784.5 |
| 25°   | 6330.8  | 6211.7  | 5986.4 | 5846.6 | 5724.9 | 5657.6 | 5665.4 | 5667.9 | 5673.1 | 5704.1 | 5745.6 |
| 27.5° | 6561.2  | 6429.2  | 6110.6 | 5833.7 | 5613.5 | 5567.0 | 5554.0 | 5561.8 | 5579.9 | 5629.1 | 5678.3 |
| 30°   | 6791.6  | 6636.4  | 6224.6 | 5781.8 | 5473.7 | 5409.0 | 5367.6 | 5385.7 | 5442.6 | 5491.8 | 5546.3 |
| 32.5° | 7001.4  | 6846.1  | 6315.2 | 5667.9 | 5295.0 | 5194.1 | 5139.8 | 5163.0 | 5220.0 | 5238.1 | 5302.8 |
| 35°   | 7247.4  | 7071.3  | 6354.1 | 5486.7 | 5100.9 | 4945.5 | 4873.1 | 4839.3 | 4867.8 | 4849.7 | 4906.7 |
| 37.5° | 7521.9  | 7338.0  | 6349.0 | 5248.5 | 4873.1 | 4694.4 | 4593.3 | 4466.5 | 4407.0 | 4344.8 | 4383.6 |
| 40°   | 7928.4  | 7664.2  | 6286.7 | 4961.1 | 4590.8 | 4427.7 | 4246.4 | 4031.5 | 3896.8 | 3775.2 | 3783.0 |
| 42.5° | 8482.5  | 8117.4  | 6172.9 | 4645.2 | 4272.3 | 4119.6 | 3873.6 | 3622.4 | 3410.1 | 3208.1 | 3190.0 |
| 45°   | 9308.4  | 8710.3  | 6030.4 | 4308.6 | 3927.9 | 3777.7 | 3511.0 | 3228.9 | 2988.0 | 2729.1 | 2698.0 |
| 47.5° | 10499.5 | 9507.8  | 5895.8 | 3925.3 | 3565.5 | 3428.2 | 3187.4 | 2925.9 | 2641.0 | 2389.9 | 2361.4 |
| 50°   | 12135.9 | 10652.3 | 5771.5 | 3552.4 | 3208.1 | 3104.5 | 2912.9 | 2646.2 | 2358.8 | 2156.9 | 2143.9 |
| 52.5° | 14217.7 | 12208.5 | 5719.7 | 3192.6 | 2874.1 | 2835.3 | 2682.5 | 2434.0 | 2162.0 | 1991.2 | 1978.2 |
| 55°   | 16607.6 | 14070.1 | 5719.7 | 2848.2 | 2581.5 | 2594.5 | 2488.3 | 2257.9 | 2022.2 | 1869.5 | 1853.9 |
| 57.5° | 19046.8 | 15955.1 | 5616.2 | 2529.7 | 2332.9 | 2387.3 | 2320.0 | 2118.1 | 1905.7 | 1747.7 | 1721.9 |
| 60°   | 21294.2 | 17534.6 | 5196.6 | 2239.7 | 2112.8 | 2198.3 | 2154.2 | 1980.8 | 1721.9 | 1589.8 | 1569.1 |
| 62.5° | 23021.3 | 18425.3 | 4388.8 | 2009.3 | 1931.6 | 2030.0 | 2006.6 | 1799.6 | 1688.2 | 1633.8 | 1615.7 |
| 65°   | 23886.1 | 18280.3 | 3355.7 | 1804.7 | 1778.8 | 1931.6 | 1882.4 | 1874.6 | 1786.6 | 1724.5 | 1703.8 |
| 67.5° | 23355.2 | 17032.2 | 2434.0 | 1654.6 | 1690.8 | 1841.0 | 2030.0 | 2061.1 | 1897.9 | 1776.2 | 1755.5 |
| 70°   | 21027.5 | 14774.5 | 1812.5 | 1512.2 | 1579.4 | 1843.6 | 2314.9 | 2156.9 | 1861.7 | 1719.2 | 1696.0 |
| 72.5° | 15996.6 | 11017.4 | 1406.0 | 1361.9 | 1434.5 | 1856.5 | 2441.7 | 2112.8 | 1758.1 | 1900.6 | 1885.0 |
| 75°   | 9147.9  | 6048.5  | 1128.9 | 1178.1 | 1253.2 | 1734.8 | 2377.0 | 1999.0 | 1677.8 | 1745.2 | 1745.2 |
| 77.5° | 3487.8  | 2325.2  | 932.1  | 996.9  | 1007.3 | 1514.7 | 2273.3 | 1991.2 | 1597.6 | 1558.7 | 1421.5 |
| 80°   | 1209.2  | 908.9   | 771.6  | 792.3  | 779.4  | 1346.4 | 2180.2 | 1732.2 | 1307.6 | 1170.3 | 1131.5 |
| 82.5° | 494.6   | 453.2   | 611.1  | 585.2  | 554.1  | 1046.1 | 1760.7 | 1416.3 | 1069.4 | 945.0  | 934.7  |
| 85°   | 214.9   | 287.4   | 404.0  | 354.8  | 321.0  | 725.0  | 1411.1 | 1198.8 | 903.6  | 779.4  | 776.7  |
| 87.5° | 44.0    | 108.8   | 170.9  | 160.5  | 165.7  | 484.2  | 1002.0 | 851.9  | 639.6  | 479.0  | 375.5  |
| 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)