

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: P970790

Luminaire Tested: **NAV-SB6C-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

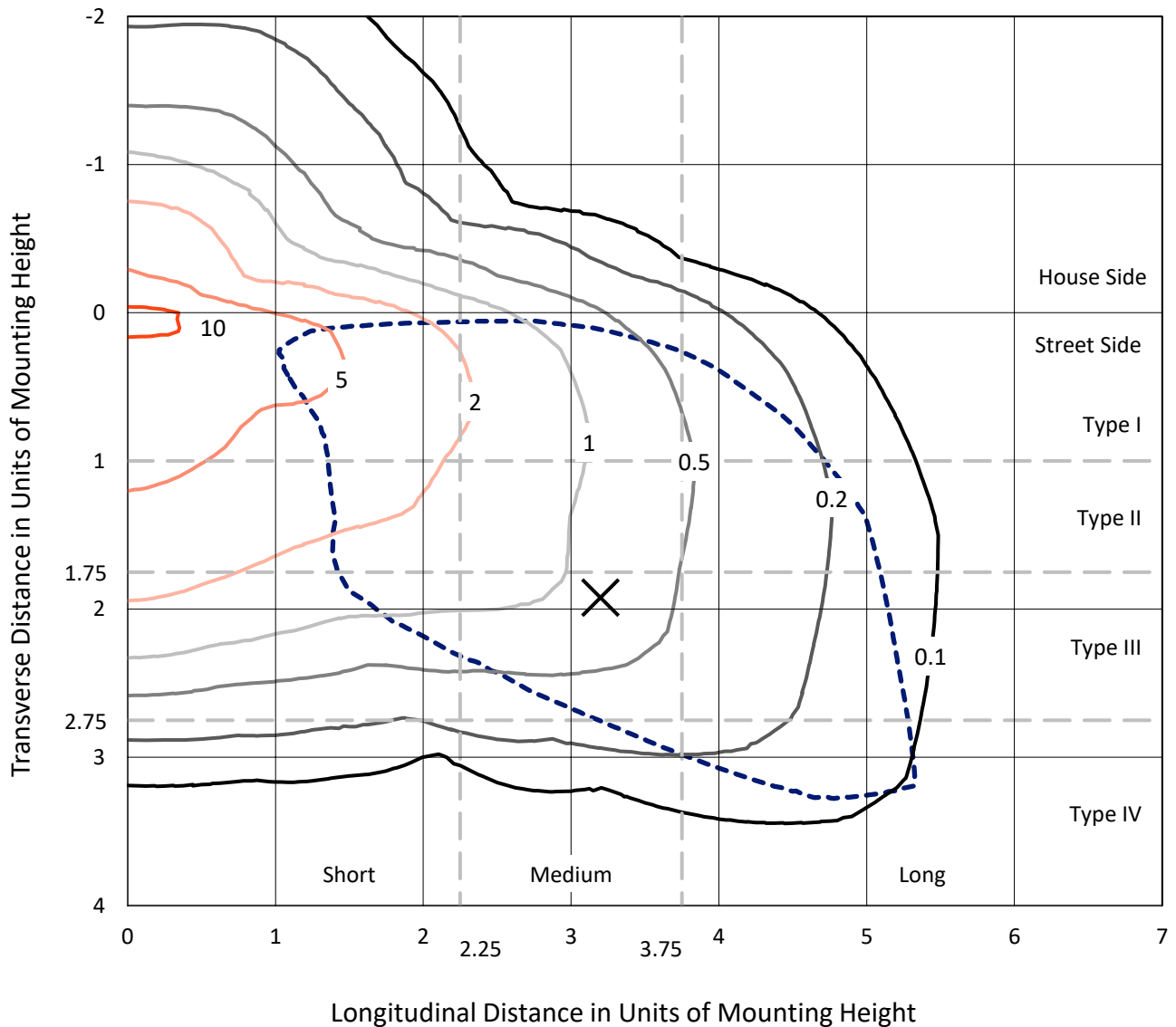
Lumens per Lamp: N/A  
Luminaire Lumens: 37582.6 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): 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

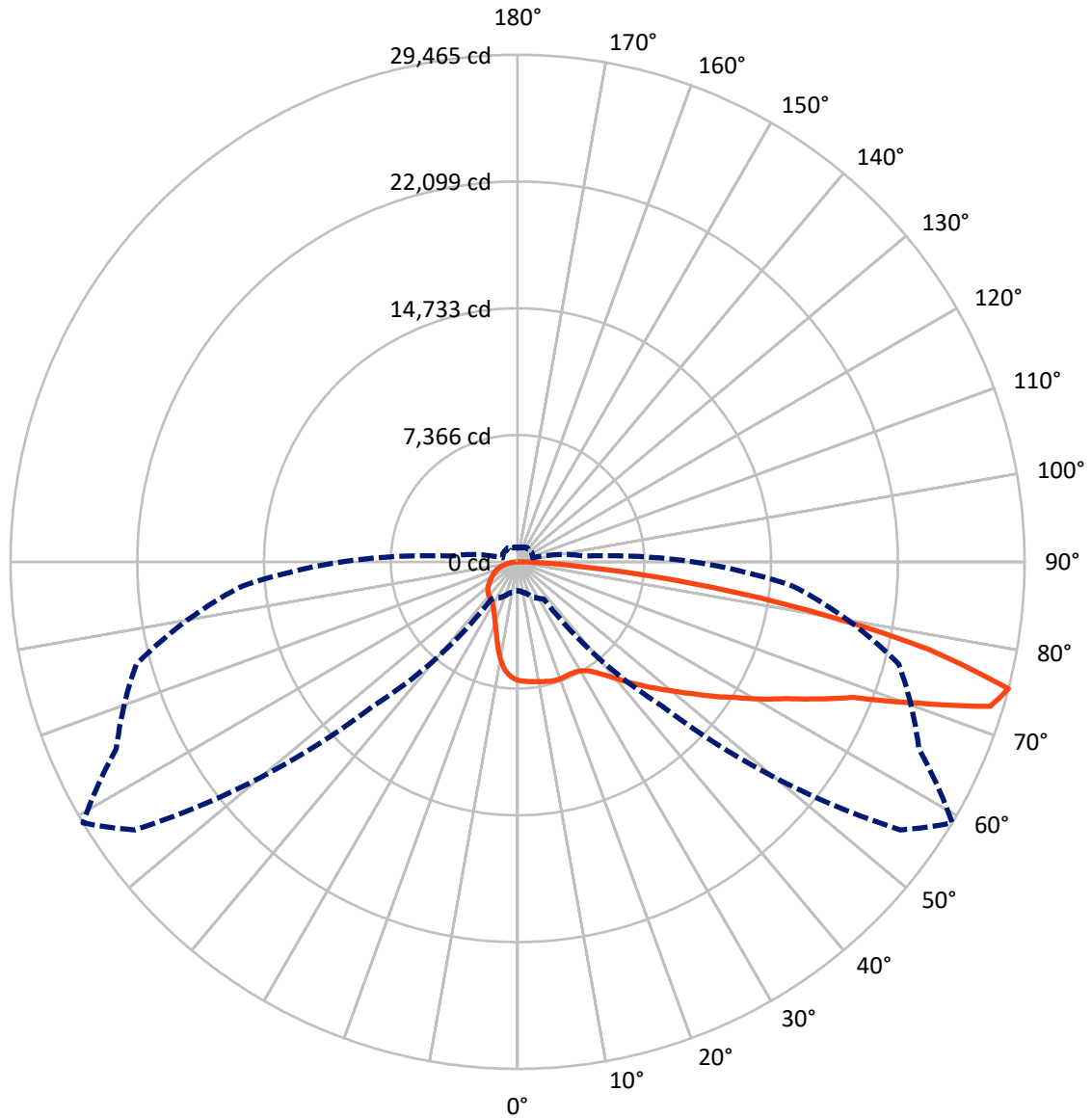
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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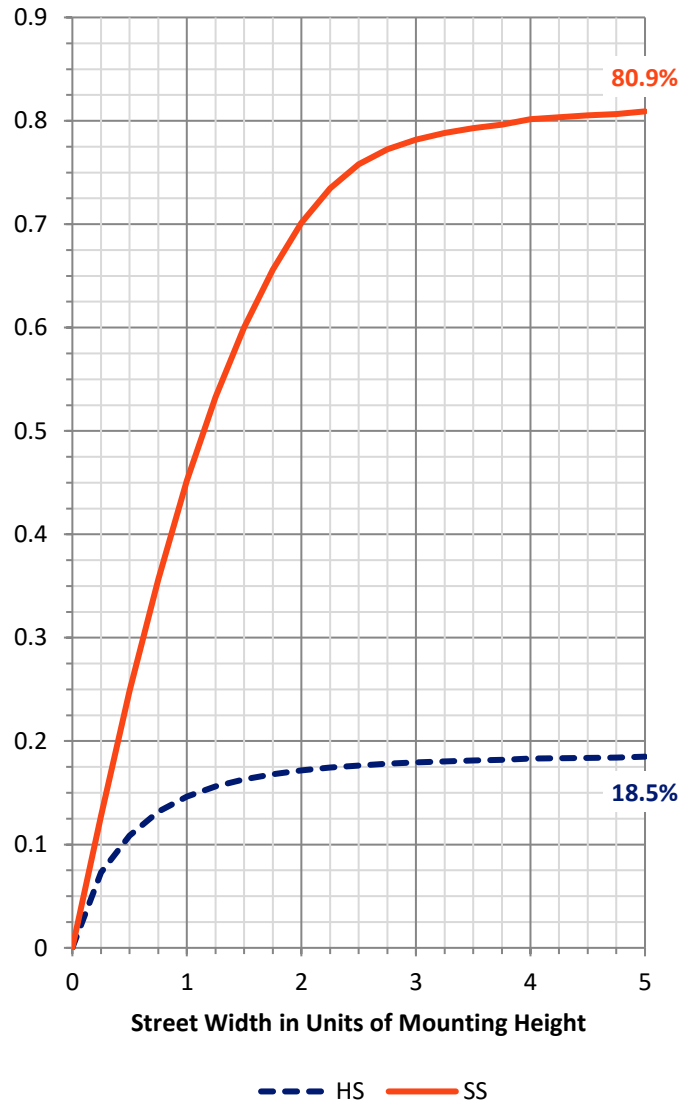
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7048.9   | 0.0    | 7048.9  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 30533.8  | 0.0    | 30533.8 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 37582.6  | 0.0    | 37582.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 618.5   | 1.6       |
| 10°-20°   | 1581.0  | 4.2       |
| 20°-30°   | 2401.4  | 6.4       |
| 30°-40°   | 3569.7  | 9.5       |
| 40°-50°   | 5308.7  | 14.1      |
| 50°-60°   | 7206.0  | 19.2      |
| 60°-70°   | 8797.3  | 23.4      |
| 70°-80°   | 6904.0  | 18.4      |
| 80°-90°   | 1195.9  | 3.2       |
| 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°    | 37582.6 | 100.0     |
| 0°-180°   | 37582.6 | 100.0     |

**Coefficient of Utilization**

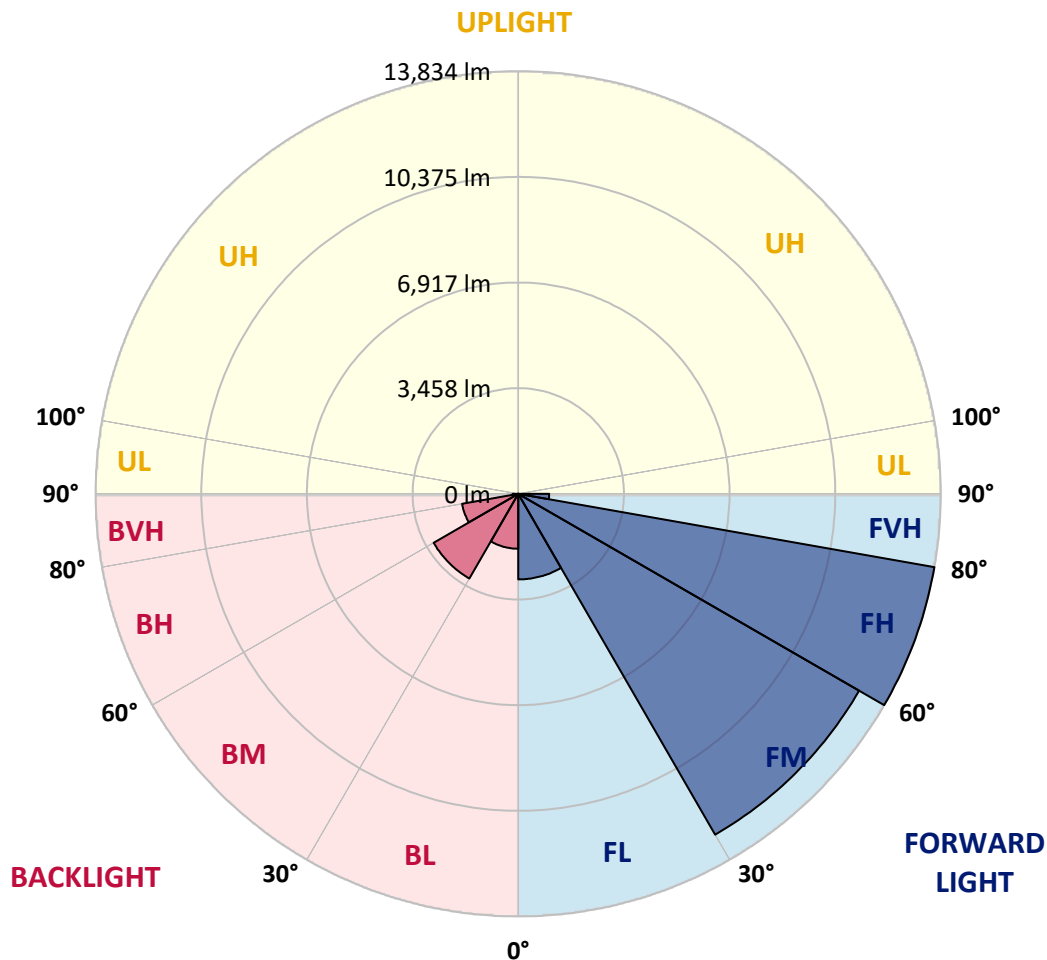


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2802.2  | 7.5       |                         |      |         |
| FM (30°-60°)   | 12884.9 | 34.3      |                         |      |         |
| FH (60°-80°)   | 13833.8 | 36.8      |                         |      | G5      |
| FVH (80°-90°)  | 1012.9  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1798.8  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3199.5  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1867.5  | 5.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 183.1   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  | 6898.2  |
| 2.5°  | 6956.9  | 6932.6  | 6956.9  | 6946.7  | 6942.7  | 6934.6  | 6936.6  | 6950.7  | 6942.7  | 6952.8  | 6918.4  |
| 5°    | 6910.3  | 6896.2  | 6920.5  | 6914.3  | 6940.7  | 6944.7  | 6971.0  | 6987.1  | 6997.3  | 6999.3  | 6973.0  |
| 7.5°  | 6833.5  | 6819.3  | 6853.8  | 6882.1  | 6938.6  | 6954.8  | 7009.4  | 7035.7  | 7049.8  | 7074.1  | 7035.7  |
| 10°   | 6552.5  | 6546.5  | 6631.3  | 6738.5  | 6871.9  | 6954.8  | 7037.8  | 7082.2  | 7104.5  | 7169.2  | 7124.7  |
| 12.5° | 6055.2  | 6063.2  | 6174.4  | 6380.6  | 6647.5  | 6914.3  | 7070.0  | 7134.7  | 7169.2  | 7250.0  | 7229.7  |
| 15°   | 5580.0  | 5578.0  | 5699.3  | 5919.7  | 6293.7  | 6736.5  | 7086.2  | 7197.4  | 7256.1  | 7375.4  | 7359.2  |
| 17.5° | 5305.1  | 5297.0  | 5381.9  | 5549.7  | 5897.4  | 6463.5  | 7045.8  | 7231.8  | 7357.1  | 7506.8  | 7492.6  |
| 20°   | 5254.6  | 5238.4  | 5282.8  | 5365.8  | 5612.4  | 6164.3  | 6940.7  | 7231.8  | 7438.0  | 7632.2  | 7624.1  |
| 22.5° | 5438.5  | 5412.2  | 5394.1  | 5383.9  | 5493.1  | 5917.6  | 6821.4  | 7207.5  | 7557.3  | 7812.0  | 7797.9  |
| 25°   | 5808.5  | 5768.1  | 5675.0  | 5584.1  | 5551.7  | 5806.4  | 6716.2  | 7201.4  | 7735.3  | 8054.7  | 8002.1  |
| 27.5° | 6407.0  | 6356.3  | 6168.3  | 5950.0  | 5753.9  | 5863.1  | 6669.8  | 7237.8  | 7931.3  | 8311.4  | 8206.3  |
| 30°   | 7148.9  | 7094.3  | 6857.8  | 6522.2  | 6170.4  | 6073.3  | 6728.4  | 7345.0  | 8182.1  | 8653.0  | 8446.9  |
| 32.5° | 7814.1  | 7753.4  | 7551.3  | 7209.5  | 6734.5  | 6437.2  | 6914.3  | 7549.2  | 8576.3  | 9128.2  | 8808.7  |
| 35°   | 8404.4  | 8333.7  | 8151.7  | 7836.3  | 7425.9  | 6948.8  | 7250.0  | 7911.2  | 9136.3  | 9900.5  | 9300.0  |
| 37.5° | 8982.6  | 8899.8  | 8701.6  | 8368.0  | 8080.9  | 7630.1  | 7713.0  | 8376.1  | 9880.3  | 10838.6 | 9951.0  |
| 40°   | 9629.6  | 9510.4  | 9269.7  | 8940.2  | 8661.1  | 8428.7  | 8321.6  | 8946.2  | 10636.4 | 11885.9 | 10763.8 |
| 42.5° | 10256.4 | 10143.1 | 9856.0  | 9575.0  | 9225.2  | 9158.5  | 9027.1  | 9613.4  | 11463.3 | 13036.3 | 11588.6 |
| 45°   | 10931.6 | 10796.1 | 10448.4 | 10092.6 | 9872.2  | 9643.7  | 9710.4  | 10280.6 | 12274.1 | 14208.9 | 12454.0 |
| 47.5° | 11564.5 | 11412.8 | 11002.3 | 10606.1 | 10484.8 | 10052.2 | 10337.2 | 11014.4 | 13117.1 | 15397.7 | 13311.2 |
| 50°   | 11906.1 | 11756.4 | 11414.8 | 11057.0 | 10962.0 | 10555.6 | 11016.5 | 11821.2 | 14000.6 | 16582.3 | 14134.0 |
| 52.5° | 12191.1 | 12029.4 | 11582.6 | 11384.5 | 11356.2 | 11103.4 | 11853.5 | 12743.1 | 14884.1 | 17629.7 | 14928.6 |
| 55°   | 12494.4 | 12314.5 | 11744.3 | 11566.4 | 11695.9 | 11718.1 | 12846.2 | 13788.3 | 15818.2 | 18650.7 | 15678.7 |
| 57.5° | 12844.2 | 12615.7 | 11900.0 | 11720.1 | 12027.3 | 12437.8 | 13986.4 | 14872.0 | 16736.1 | 19596.9 | 16345.9 |
| 60°   | 13173.7 | 12943.3 | 12199.2 | 11964.7 | 12385.3 | 13272.8 | 15294.5 | 16184.1 | 17775.2 | 20439.9 | 16976.7 |
| 62.5° | 13238.4 | 13048.4 | 12437.8 | 12435.8 | 12870.4 | 14247.3 | 16843.2 | 17508.3 | 18683.0 | 21272.8 | 17542.8 |
| 65°   | 12118.4 | 11999.1 | 11637.2 | 12417.6 | 13566.0 | 15650.4 | 18567.8 | 19202.6 | 19837.4 | 22000.7 | 18040.1 |
| 67.5° | 9223.3  | 9239.3  | 9213.1  | 10719.3 | 13003.9 | 17666.1 | 21064.6 | 21016.1 | 21262.7 | 22817.4 | 18612.3 |
| 70°   | 4217.4  | 4312.4  | 4931.1  | 7399.6  | 10418.1 | 17898.6 | 25193.1 | 24564.2 | 23052.0 | 23874.8 | 19107.5 |
| 72.5° | 2278.5  | 2351.2  | 2604.0  | 3584.5  | 6263.4  | 15913.2 | 28278.2 | 28725.0 | 25431.6 | 24586.5 | 18563.7 |
| 75°   | 1672.0  | 1712.5  | 1888.4  | 2278.5  | 2630.3  | 11827.3 | 27172.3 | 29465.0 | 25728.8 | 22926.7 | 16030.5 |
| 77.5° | 1251.4  | 1269.7  | 1413.2  | 1805.4  | 1346.4  | 6235.1  | 21711.6 | 24402.5 | 22025.0 | 18836.6 | 11841.4 |
| 80°   | 907.7   | 927.9   | 1035.1  | 1354.5  | 944.1   | 2280.5  | 14908.4 | 17128.3 | 15084.3 | 12007.2 | 5901.5  |
| 82.5° | 626.8   | 634.8   | 681.3   | 921.9   | 659.1   | 885.5   | 8459.0  | 10044.1 | 8420.6  | 4213.4  | 1593.2  |
| 85°   | 378.0   | 388.2   | 408.4   | 537.8   | 374.0   | 420.6   | 3651.3  | 3776.6  | 2517.1  | 1006.9  | 495.3   |
| 87.5° | 155.7   | 165.7   | 181.9   | 226.4   | 147.6   | 117.3   | 602.5   | 756.1   | 471.1   | 295.2   | 153.6   |
| 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°    | 6898.2  | 6898.2 | 6898.2 | 6898.2 | 6898.2 | 6898.2 | 6898.2 | 6898.2 | 6898.2 | 6898.2 | 6898.2 |
| 2.5°  | 6908.3  | 6894.2 | 6855.7 | 6803.2 | 6754.6 | 6694.0 | 6667.7 | 6645.5 | 6625.3 | 6586.9 | 6568.7 |
| 5°    | 6950.7  | 6912.4 | 6809.3 | 6675.8 | 6524.2 | 6358.4 | 6196.6 | 6085.4 | 5990.4 | 5919.7 | 5861.1 |
| 7.5°  | 7015.5  | 6942.7 | 6754.6 | 6481.7 | 6134.0 | 5778.1 | 5456.7 | 5228.2 | 5056.4 | 4993.7 | 4884.5 |
| 10°   | 7082.2  | 6995.2 | 6667.7 | 6186.6 | 5586.0 | 5038.2 | 4611.6 | 4377.1 | 4239.6 | 4195.1 | 4126.3 |
| 12.5° | 7161.1  | 7033.7 | 6532.3 | 5776.2 | 4973.5 | 4373.1 | 4001.1 | 3863.5 | 3792.8 | 3768.5 | 3774.6 |
| 15°   | 7276.3  | 7066.0 | 6328.0 | 5262.7 | 4389.3 | 3887.8 | 3647.3 | 3552.2 | 3515.9 | 3513.8 | 3521.9 |
| 17.5° | 7363.2  | 7072.1 | 6010.7 | 4712.7 | 3940.4 | 3594.7 | 3396.5 | 3360.2 | 3384.4 | 3420.8 | 3435.0 |
| 20°   | 7460.3  | 7017.5 | 5594.1 | 4211.3 | 3625.0 | 3337.9 | 3255.0 | 3279.3 | 3337.9 | 3390.5 | 3408.6 |
| 22.5° | 7529.0  | 6918.4 | 5090.8 | 3821.1 | 3352.1 | 3190.3 | 3186.3 | 3236.8 | 3269.1 | 3295.5 | 3309.6 |
| 25°   | 7589.6  | 6750.6 | 4557.0 | 3493.6 | 3127.7 | 3101.3 | 3145.8 | 3129.6 | 3107.4 | 3129.6 | 3143.8 |
| 27.5° | 7634.1  | 6485.8 | 4079.9 | 3206.5 | 2969.9 | 3040.7 | 3014.4 | 2978.0 | 2976.0 | 2988.2 | 3008.4 |
| 30°   | 7620.0  | 6132.0 | 3687.6 | 2933.5 | 2858.7 | 2927.5 | 2864.8 | 2858.7 | 2852.7 | 2858.7 | 2881.0 |
| 32.5° | 7620.0  | 5729.6 | 3386.4 | 2745.6 | 2788.0 | 2761.8 | 2755.6 | 2741.5 | 2717.3 | 2715.2 | 2741.5 |
| 35°   | 7662.4  | 5327.3 | 3127.7 | 2644.5 | 2729.4 | 2666.6 | 2670.7 | 2636.4 | 2585.8 | 2561.6 | 2585.8 |
| 37.5° | 7749.4  | 5003.8 | 2870.9 | 2595.9 | 2626.3 | 2624.2 | 2608.0 | 2549.4 | 2460.5 | 2383.6 | 2409.9 |
| 40°   | 7959.6  | 4908.8 | 2695.0 | 2573.7 | 2577.8 | 2602.0 | 2559.5 | 2446.4 | 2244.1 | 2118.8 | 2135.0 |
| 42.5° | 8289.2  | 5068.5 | 2656.6 | 2519.1 | 2545.4 | 2569.7 | 2486.8 | 2223.9 | 2080.3 | 2005.6 | 2005.6 |
| 45°   | 8707.7  | 5347.5 | 2739.5 | 2440.2 | 2468.5 | 2511.0 | 2264.3 | 2139.0 | 2074.3 | 2076.3 | 2086.5 |
| 47.5° | 9237.4  | 5640.7 | 2893.2 | 2371.5 | 2357.4 | 2381.6 | 2116.7 | 2040.0 | 1951.0 | 1973.2 | 2029.8 |
| 50°   | 9849.9  | 5937.9 | 3038.7 | 2278.5 | 2234.0 | 2155.2 | 2021.7 | 1948.9 | 1835.8 | 1783.2 | 1797.3 |
| 52.5° | 10513.1 | 6224.9 | 3097.3 | 2165.3 | 2100.6 | 2009.6 | 1957.0 | 1868.1 | 1730.6 | 1643.7 | 1641.6 |
| 55°   | 11141.9 | 6485.8 | 3032.7 | 2029.8 | 1967.2 | 1896.4 | 1888.4 | 1833.7 | 1686.1 | 1564.9 | 1564.9 |
| 57.5° | 11736.2 | 6704.1 | 2870.9 | 1892.4 | 1831.7 | 1789.2 | 1843.9 | 1817.5 | 1631.6 | 1475.9 | 1467.8 |
| 60°   | 12239.6 | 6853.8 | 2636.4 | 1752.9 | 1710.4 | 1688.2 | 1771.1 | 1763.0 | 1554.7 | 1380.9 | 1374.8 |
| 62.5° | 12640.0 | 6912.4 | 2377.6 | 1619.4 | 1609.4 | 1568.9 | 1669.9 | 1669.9 | 1457.7 | 1287.8 | 1281.8 |
| 65°   | 12953.3 | 6855.7 | 2114.8 | 1488.0 | 1508.2 | 1447.6 | 1546.6 | 1534.5 | 1354.5 | 1205.0 | 1196.9 |
| 67.5° | 13230.3 | 6669.8 | 1823.6 | 1358.6 | 1405.1 | 1328.3 | 1417.3 | 1389.0 | 1241.4 | 1122.1 | 1114.0 |
| 70°   | 13353.7 | 6237.1 | 1492.1 | 1229.2 | 1285.9 | 1211.0 | 1287.8 | 1235.3 | 1114.0 | 1033.1 | 1016.9 |
| 72.5° | 12363.0 | 5183.7 | 1174.6 | 1093.8 | 1142.3 | 1081.7 | 1148.3 | 1087.7 | 976.5  | 940.1  | 909.8  |
| 75°   | 10228.1 | 3889.9 | 903.7  | 946.2  | 982.6  | 936.0  | 980.5  | 936.0  | 835.0  | 861.3  | 786.5  |
| 77.5° | 7427.9  | 2626.3 | 691.5  | 790.5  | 806.7  | 782.4  | 820.8  | 770.3  | 679.3  | 673.2  | 642.9  |
| 80°   | 3693.7  | 1538.5 | 541.8  | 624.7  | 618.7  | 602.5  | 647.0  | 622.7  | 545.9  | 578.2  | 572.2  |
| 82.5° | 1069.5  | 659.1  | 394.2  | 438.7  | 426.6  | 430.6  | 463.0  | 475.1  | 711.7  | 705.6  | 721.8  |
| 85°   | 335.6   | 258.8  | 236.6  | 244.7  | 232.5  | 238.5  | 273.0  | 541.8  | 501.4  | 293.2  | 317.4  |
| 87.5° | 86.9    | 89.0   | 58.6   | 62.6   | 64.7   | 76.9   | 86.9   | 329.5  | 157.7  | 103.1  | 109.2  |
| 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)