

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: P960341

Luminaire Tested: **NAV-SB1C-735-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P960341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-735-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

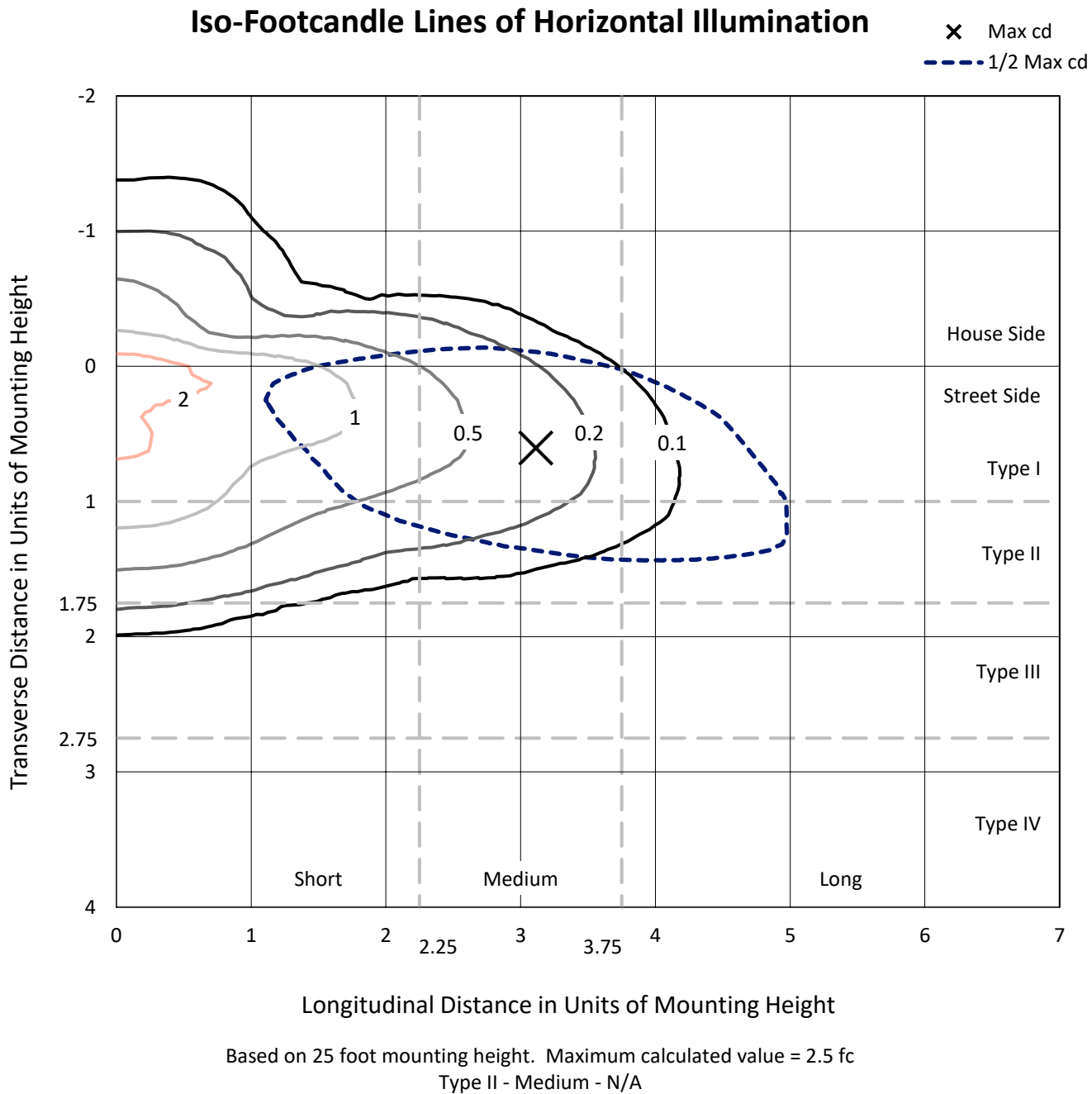
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7632.1 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 54.4  
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

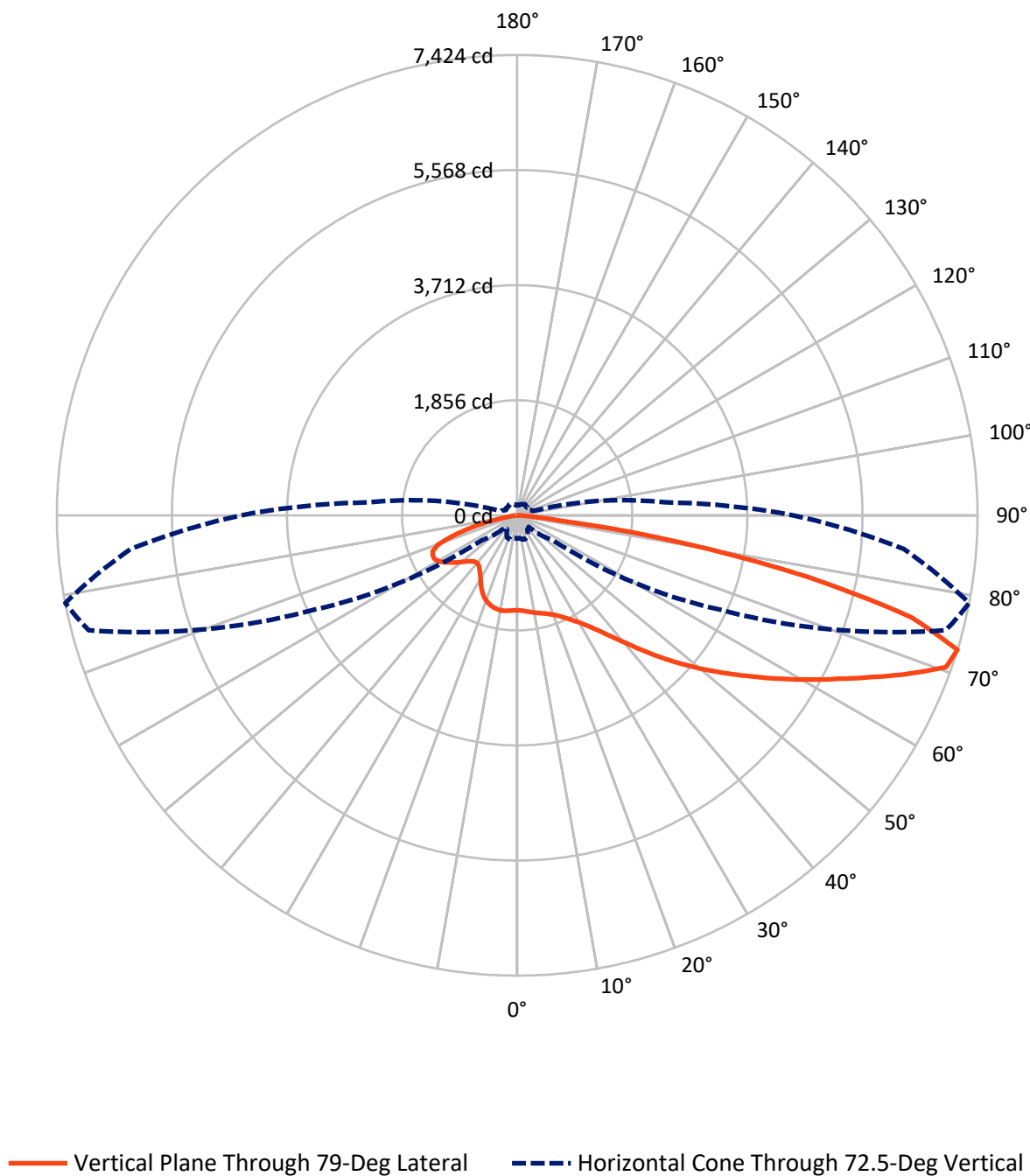


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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1679.5   | 0.0    | 1679.5 |
|                    | % Fixture | 22.0     | 0.0    | 22.0   |
| <b>Street Side</b> | Lumens    | 5952.7   | 0.0    | 5952.7 |
|                    | % Fixture | 78.0     | 0.0    | 78.0   |
| <b>Total</b>       | Lumens    | 7632.1   | 0.0    | 7632.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.1  | 1.8       |
| 10°-20°   | 363.6  | 4.8       |
| 20°-30°   | 586.7  | 7.7       |
| 30°-40°   | 880.5  | 11.5      |
| 40°-50°   | 1249.1 | 16.4      |
| 50°-60°   | 1577.4 | 20.7      |
| 60°-70°   | 1602.1 | 21.0      |
| 70°-80°   | 1091.9 | 14.3      |
| 80°-90°   | 141.7  | 1.9       |
| 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°    | 7632.1 | 100.0     |
| 0°-180°   | 7632.1 | 100.0     |

**Coefficient of Utilization**



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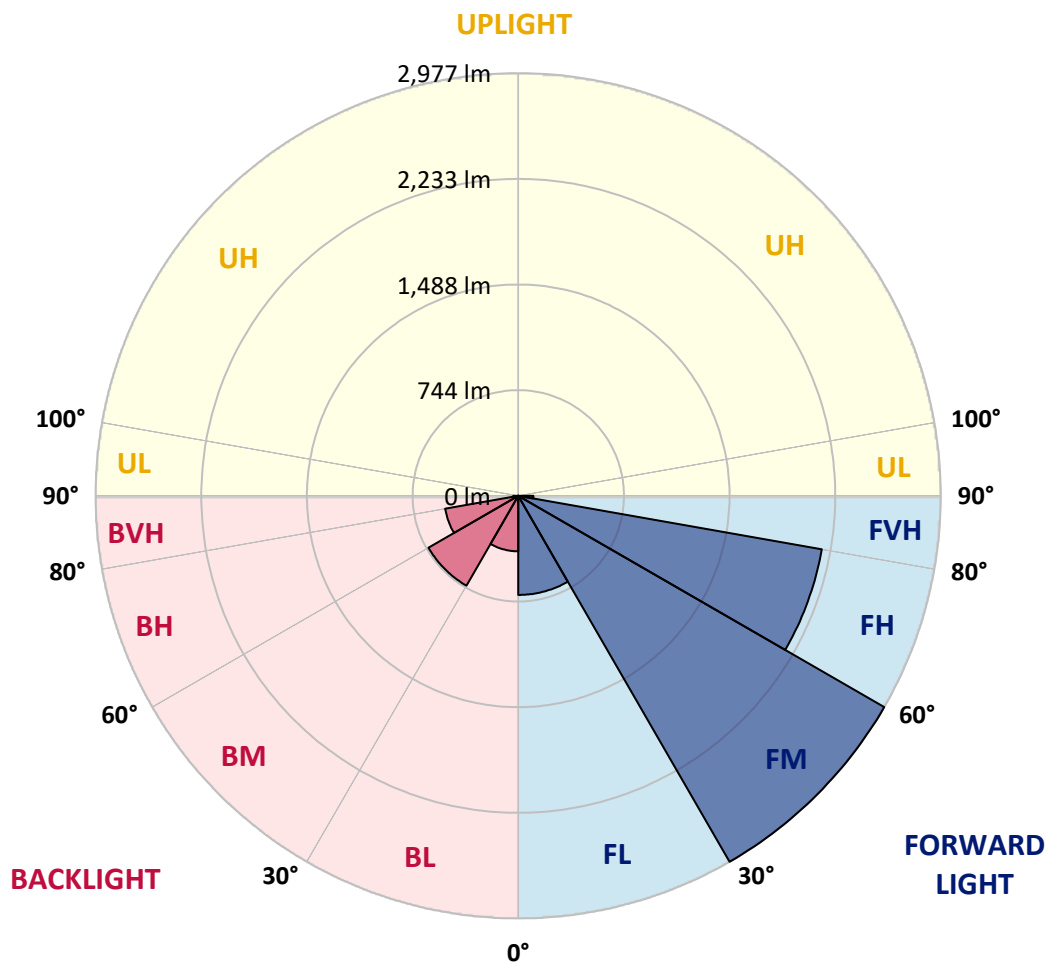
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 698.2  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 2976.7 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 2171.1 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 106.7  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 391.2  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 730.4  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 522.9  | 6.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 34.9   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 |
| 2.5°  | 1532.9 | 1525.6 | 1530.0 | 1528.5 | 1530.4 | 1532.9 | 1533.7 | 1534.9 | 1538.9 | 1538.5 | 1538.1 |
| 5°    | 1529.7 | 1522.4 | 1528.5 | 1526.4 | 1531.7 | 1537.3 | 1542.2 | 1546.6 | 1553.1 | 1555.9 | 1551.8 |
| 7.5°  | 1522.8 | 1517.9 | 1524.0 | 1530.0 | 1539.8 | 1548.3 | 1555.1 | 1565.2 | 1574.5 | 1576.0 | 1578.9 |
| 10°   | 1482.9 | 1479.2 | 1493.3 | 1509.1 | 1535.8 | 1558.7 | 1573.7 | 1585.4 | 1595.5 | 1597.1 | 1601.2 |
| 12.5° | 1441.3 | 1436.8 | 1452.5 | 1473.9 | 1517.1 | 1558.7 | 1590.2 | 1605.6 | 1614.5 | 1619.7 | 1625.8 |
| 15°   | 1434.4 | 1430.8 | 1439.6 | 1458.2 | 1494.1 | 1547.9 | 1601.6 | 1629.7 | 1637.4 | 1643.5 | 1645.9 |
| 17.5° | 1467.5 | 1460.6 | 1464.2 | 1470.7 | 1491.7 | 1537.7 | 1610.4 | 1657.2 | 1668.9 | 1675.4 | 1675.4 |
| 20°   | 1544.2 | 1534.5 | 1528.9 | 1516.0 | 1512.3 | 1539.3 | 1609.6 | 1690.3 | 1705.7 | 1713.8 | 1715.7 |
| 22.5° | 1646.4 | 1639.9 | 1627.8 | 1595.1 | 1559.5 | 1559.1 | 1624.9 | 1732.8 | 1761.4 | 1769.0 | 1764.2 |
| 25°   | 1769.9 | 1760.1 | 1744.9 | 1700.5 | 1632.2 | 1598.3 | 1650.8 | 1786.8 | 1834.9 | 1836.9 | 1822.8 |
| 27.5° | 1911.9 | 1897.5 | 1876.5 | 1817.9 | 1725.9 | 1659.7 | 1690.3 | 1849.0 | 1919.2 | 1918.4 | 1889.4 |
| 30°   | 2061.8 | 2047.2 | 2025.0 | 1954.0 | 1838.1 | 1742.4 | 1745.3 | 1916.0 | 2019.4 | 2014.9 | 1965.2 |
| 32.5° | 2171.2 | 2160.3 | 2155.8 | 2100.9 | 1967.3 | 1840.1 | 1808.2 | 1990.2 | 2142.9 | 2138.9 | 2069.4 |
| 35°   | 2255.1 | 2241.0 | 2246.3 | 2218.4 | 2108.2 | 1949.5 | 1885.3 | 2078.7 | 2293.0 | 2292.7 | 2206.3 |
| 37.5° | 2338.3 | 2325.8 | 2330.2 | 2311.7 | 2238.6 | 2088.4 | 1979.4 | 2186.9 | 2479.2 | 2488.1 | 2371.8 |
| 40°   | 2414.2 | 2400.9 | 2418.6 | 2401.3 | 2339.9 | 2236.1 | 2086.4 | 2309.2 | 2694.7 | 2711.7 | 2572.0 |
| 42.5° | 2459.8 | 2449.3 | 2478.8 | 2479.2 | 2427.9 | 2360.9 | 2203.9 | 2444.1 | 2944.2 | 2982.2 | 2818.3 |
| 45°   | 2475.6 | 2471.9 | 2516.4 | 2525.6 | 2505.8 | 2433.1 | 2309.6 | 2591.0 | 3213.2 | 3280.9 | 3098.9 |
| 47.5° | 2458.6 | 2451.7 | 2513.1 | 2547.4 | 2563.1 | 2467.1 | 2397.3 | 2750.1 | 3487.7 | 3587.0 | 3404.8 |
| 50°   | 2373.0 | 2359.7 | 2450.9 | 2523.1 | 2579.3 | 2489.3 | 2485.6 | 2933.8 | 3799.7 | 3908.3 | 3712.6 |
| 52.5° | 2219.2 | 2209.1 | 2312.8 | 2438.4 | 2543.7 | 2500.2 | 2584.9 | 3134.4 | 4096.0 | 4236.5 | 4027.8 |
| 55°   | 2022.6 | 2009.3 | 2123.5 | 2287.4 | 2455.4 | 2496.6 | 2684.3 | 3358.8 | 4445.6 | 4588.2 | 4353.6 |
| 57.5° | 1710.9 | 1684.3 | 1828.8 | 2022.6 | 2311.3 | 2492.1 | 2787.6 | 3582.2 | 4800.9 | 4971.7 | 4701.2 |
| 60°   | 1256.3 | 1216.8 | 1394.0 | 1623.7 | 2029.5 | 2448.9 | 2915.6 | 3832.5 | 5227.3 | 5381.0 | 5080.7 |
| 62.5° | 731.5  | 708.5  | 824.4  | 1038.7 | 1529.7 | 2194.5 | 2987.5 | 4123.5 | 5646.3 | 5807.8 | 5453.7 |
| 65°   | 568.1  | 561.6  | 571.6  | 588.2  | 851.5  | 1643.1 | 2765.9 | 4407.3 | 6179.2 | 6292.3 | 5842.5 |
| 67.5° | 519.6  | 514.8  | 519.2  | 488.1  | 431.9  | 915.2  | 2188.1 | 4479.1 | 6750.0 | 6818.7 | 6182.8 |
| 70°   | 461.9  | 456.2  | 470.7  | 444.1  | 339.9  | 416.3  | 1413.8 | 4218.4 | 7204.2 | 7333.0 | 6441.6 |
| 72.5° | 376.3  | 369.8  | 403.7  | 391.5  | 286.2  | 267.2  | 710.1  | 3598.7 | 7156.6 | 7423.9 | 6256.3 |
| 75°   | 289.0  | 285.5  | 325.7  | 335.9  | 233.4  | 210.3  | 340.7  | 2674.9 | 6297.9 | 6567.2 | 5391.9 |
| 77.5° | 224.5  | 221.6  | 242.2  | 279.0  | 188.1  | 163.1  | 209.5  | 1696.8 | 4746.1 | 4793.2 | 3715.7 |
| 80°   | 168.3  | 160.3  | 179.3  | 216.0  | 146.6  | 119.1  | 142.1  | 989.5  | 3000.0 | 2719.4 | 1617.2 |
| 82.5° | 105.4  | 101.4  | 117.1  | 144.1  | 103.3  | 82.0   | 92.5   | 546.6  | 1202.2 | 708.1  | 312.1  |
| 85°   | 60.2   | 58.5   | 63.8   | 82.3   | 56.1   | 47.3   | 52.9   | 241.4  | 219.7  | 151.0  | 94.1   |
| 87.5° | 24.2   | 23.4   | 29.1   | 36.7   | 20.6   | 17.3   | 18.6   | 58.1   | 48.5   | 44.8   | 31.1   |
| 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°    | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 |
| 2.5°  | 1536.5 | 1536.5 | 1530.8 | 1522.0 | 1511.9 | 1505.4 | 1495.0 | 1492.1 | 1481.2 | 1477.9 | 1483.3 |
| 5°    | 1555.1 | 1551.8 | 1534.5 | 1509.5 | 1475.2 | 1443.7 | 1409.0 | 1387.1 | 1356.5 | 1345.5 | 1353.6 |
| 7.5°  | 1578.5 | 1569.6 | 1539.8 | 1484.8 | 1413.0 | 1342.3 | 1268.8 | 1213.2 | 1159.9 | 1140.9 | 1143.3 |
| 10°   | 1599.9 | 1587.4 | 1536.5 | 1440.4 | 1316.1 | 1193.8 | 1076.7 | 994.8  | 932.5  | 907.1  | 912.8  |
| 12.5° | 1621.3 | 1598.3 | 1515.2 | 1366.5 | 1178.4 | 1012.5 | 887.8  | 824.0  | 785.7  | 754.9  | 765.1  |
| 15°   | 1641.5 | 1609.1 | 1482.0 | 1267.6 | 1027.5 | 859.1  | 767.0  | 716.2  | 685.5  | 665.3  | 668.9  |
| 17.5° | 1664.9 | 1618.5 | 1432.3 | 1142.1 | 883.8  | 753.0  | 677.8  | 647.2  | 641.1  | 638.7  | 640.3  |
| 20°   | 1697.6 | 1627.0 | 1366.9 | 1001.6 | 778.0  | 668.1  | 629.3  | 626.6  | 626.2  | 624.9  | 628.9  |
| 22.5° | 1732.8 | 1637.0 | 1280.5 | 874.0  | 687.9  | 615.2  | 608.4  | 602.7  | 599.1  | 598.7  | 603.1  |
| 25°   | 1774.3 | 1640.3 | 1172.4 | 769.5  | 611.2  | 590.2  | 582.2  | 573.7  | 571.2  | 571.2  | 573.7  |
| 27.5° | 1814.7 | 1629.3 | 1046.4 | 678.7  | 568.1  | 567.2  | 556.7  | 553.9  | 553.5  | 554.7  | 557.9  |
| 30°   | 1855.0 | 1608.7 | 921.3  | 594.7  | 542.9  | 542.9  | 539.4  | 541.4  | 542.9  | 547.0  | 549.8  |
| 32.5° | 1909.6 | 1587.0 | 816.7  | 532.5  | 521.2  | 517.1  | 520.8  | 524.8  | 526.4  | 531.7  | 536.2  |
| 35°   | 1989.5 | 1571.6 | 733.6  | 498.6  | 498.6  | 493.3  | 495.4  | 494.6  | 490.9  | 488.5  | 494.2  |
| 37.5° | 2095.3 | 1570.8 | 664.9  | 482.9  | 479.6  | 478.8  | 479.2  | 474.0  | 459.8  | 442.9  | 443.3  |
| 40°   | 2222.4 | 1592.6 | 612.0  | 471.9  | 469.6  | 474.4  | 471.9  | 457.8  | 419.0  | 389.6  | 388.8  |
| 42.5° | 2393.2 | 1654.8 | 578.1  | 458.6  | 465.9  | 471.9  | 462.3  | 413.4  | 387.1  | 367.4  | 366.5  |
| 45°   | 2594.3 | 1755.7 | 560.8  | 444.4  | 459.0  | 466.3  | 419.4  | 398.0  | 377.1  | 353.2  | 351.7  |
| 47.5° | 2821.9 | 1882.9 | 556.7  | 431.1  | 443.7  | 448.1  | 401.3  | 391.5  | 367.8  | 341.9  | 339.9  |
| 50°   | 3069.8 | 2033.5 | 567.6  | 415.4  | 421.5  | 406.1  | 395.2  | 386.3  | 361.7  | 336.3  | 333.4  |
| 52.5° | 3326.1 | 2199.4 | 589.4  | 394.0  | 399.2  | 382.3  | 392.8  | 385.1  | 358.1  | 323.8  | 321.3  |
| 55°   | 3578.1 | 2366.5 | 610.4  | 369.0  | 376.7  | 360.9  | 385.9  | 380.3  | 341.5  | 302.8  | 300.7  |
| 57.5° | 3834.0 | 2532.9 | 631.0  | 346.8  | 354.9  | 340.3  | 375.0  | 367.4  | 323.0  | 283.4  | 282.6  |
| 60°   | 4100.1 | 2694.3 | 640.7  | 325.4  | 331.1  | 321.3  | 358.5  | 345.2  | 302.0  | 263.6  | 262.4  |
| 62.5° | 4349.2 | 2828.8 | 624.9  | 304.0  | 307.6  | 303.6  | 336.7  | 319.0  | 281.0  | 241.4  | 241.0  |
| 65°   | 4599.1 | 2908.7 | 576.5  | 283.0  | 283.8  | 281.8  | 306.0  | 290.7  | 256.4  | 222.0  | 219.7  |
| 67.5° | 4825.6 | 2953.5 | 499.4  | 260.3  | 258.4  | 257.6  | 277.4  | 259.9  | 232.6  | 202.6  | 200.3  |
| 70°   | 4873.6 | 2839.7 | 381.5  | 233.7  | 233.7  | 231.8  | 245.9  | 228.1  | 206.3  | 182.0  | 181.2  |
| 72.5° | 4451.3 | 2388.8 | 270.9  | 203.5  | 206.7  | 202.6  | 214.3  | 199.5  | 179.7  | 163.5  | 158.7  |
| 75°   | 3589.3 | 1751.7 | 197.0  | 172.4  | 178.0  | 171.2  | 182.0  | 171.6  | 154.6  | 154.3  | 138.9  |
| 77.5° | 2466.3 | 1083.1 | 142.9  | 142.1  | 146.2  | 137.2  | 149.8  | 144.1  | 128.7  | 121.9  | 114.3  |
| 80°   | 1052.5 | 431.9  | 104.1  | 109.8  | 109.8  | 101.8  | 116.2  | 117.9  | 104.6  | 101.4  | 101.4  |
| 82.5° | 209.5  | 122.7  | 73.1   | 75.5   | 71.0   | 68.7   | 82.3   | 91.2   | 126.0  | 140.1  | 140.5  |
| 85°   | 62.9   | 45.2   | 44.0   | 41.2   | 36.3   | 36.7   | 48.5   | 91.6   | 113.1  | 64.6   | 55.8   |
| 87.5° | 17.3   | 11.3   | 11.7   | 9.3    | 7.7    | 10.0   | 16.5   | 69.4   | 37.9   | 16.2   | 13.7   |
| 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)