

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: P962376

Luminaire Tested: **NAV-SB2C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9602.2 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

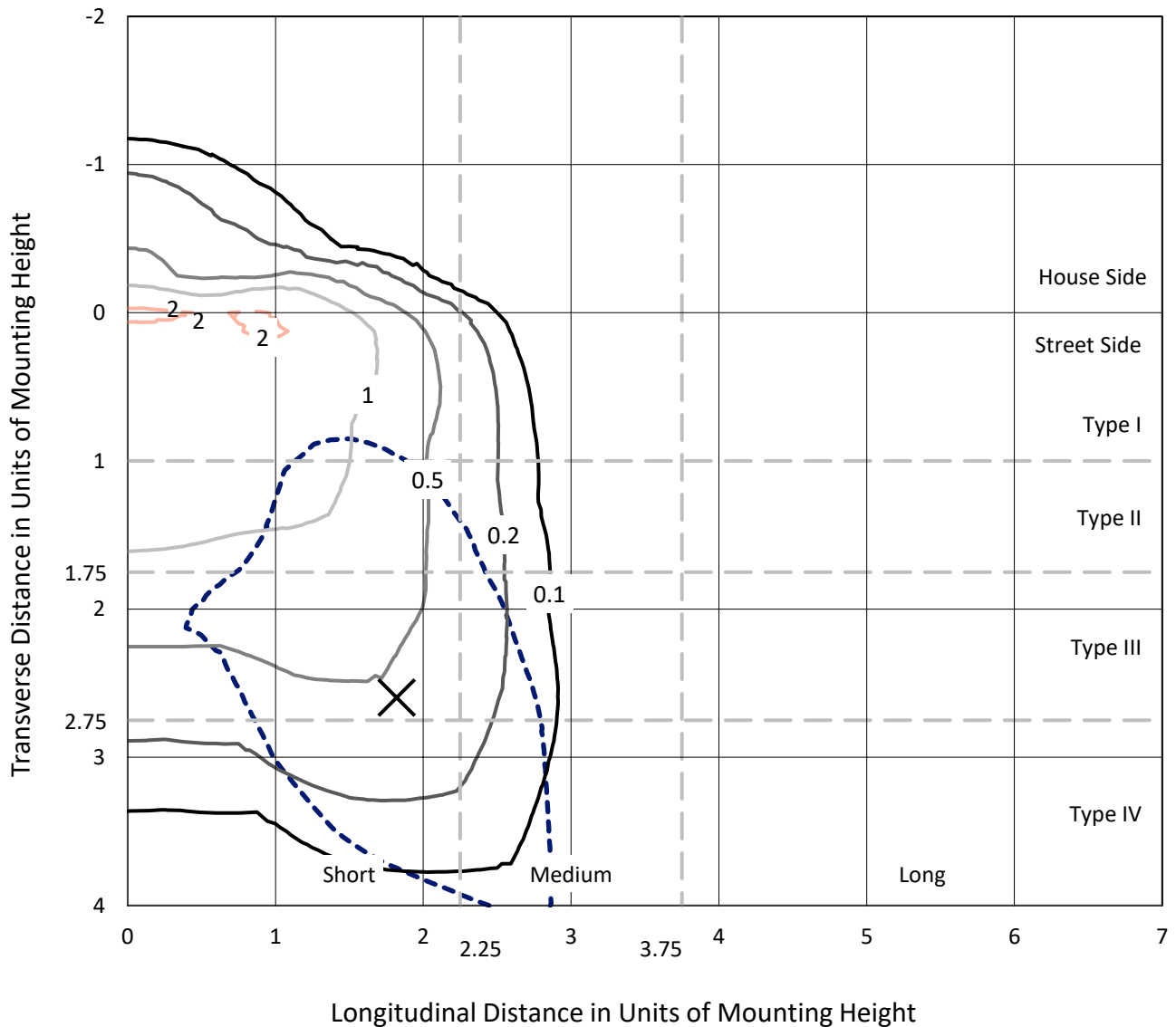
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

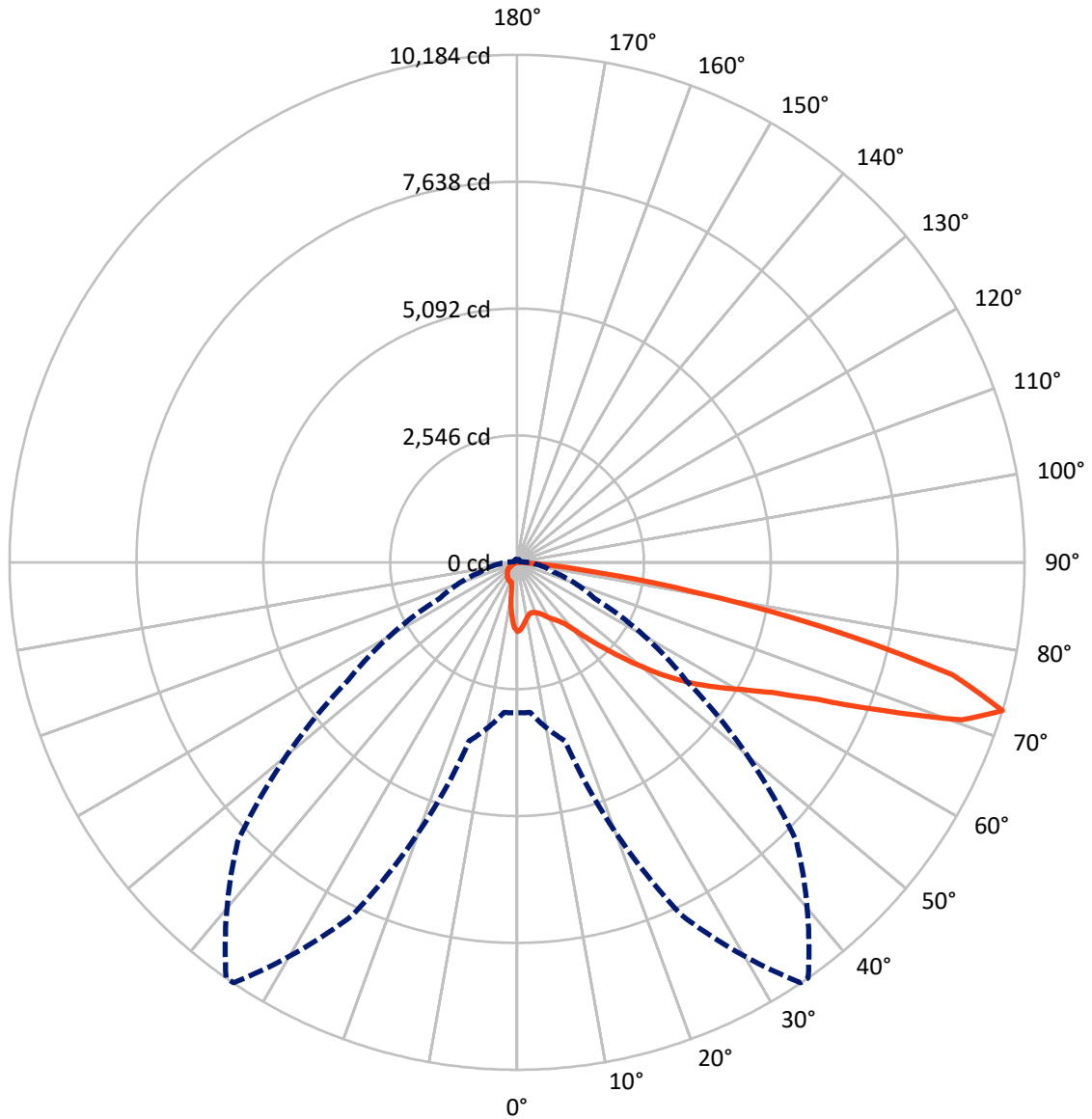
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1080.7   | 0.0    | 1080.7 |
|                    | % Fixture | 11.3     | 0.0    | 11.3   |
| <b>Street Side</b> | Lumens    | 8521.5   | 0.0    | 8521.5 |
|                    | % Fixture | 88.7     | 0.0    | 88.7   |
| <b>Total</b>       | Lumens    | 9602.2   | 0.0    | 9602.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.4  | 1.2       |
| 10°-20°   | 267.5  | 2.8       |
| 20°-30°   | 434.6  | 4.5       |
| 30°-40°   | 725.1  | 7.6       |
| 40°-50°   | 1371.9 | 14.3      |
| 50°-60°   | 2180.0 | 22.7      |
| 60°-70°   | 2696.8 | 28.1      |
| 70°-80°   | 1676.4 | 17.5      |
| 80°-90°   | 135.5  | 1.4       |
| 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°    | 9602.2 | 100.0     |
| 0°-180°   | 9602.2 | 100.0     |

**Coefficient of Utilization**



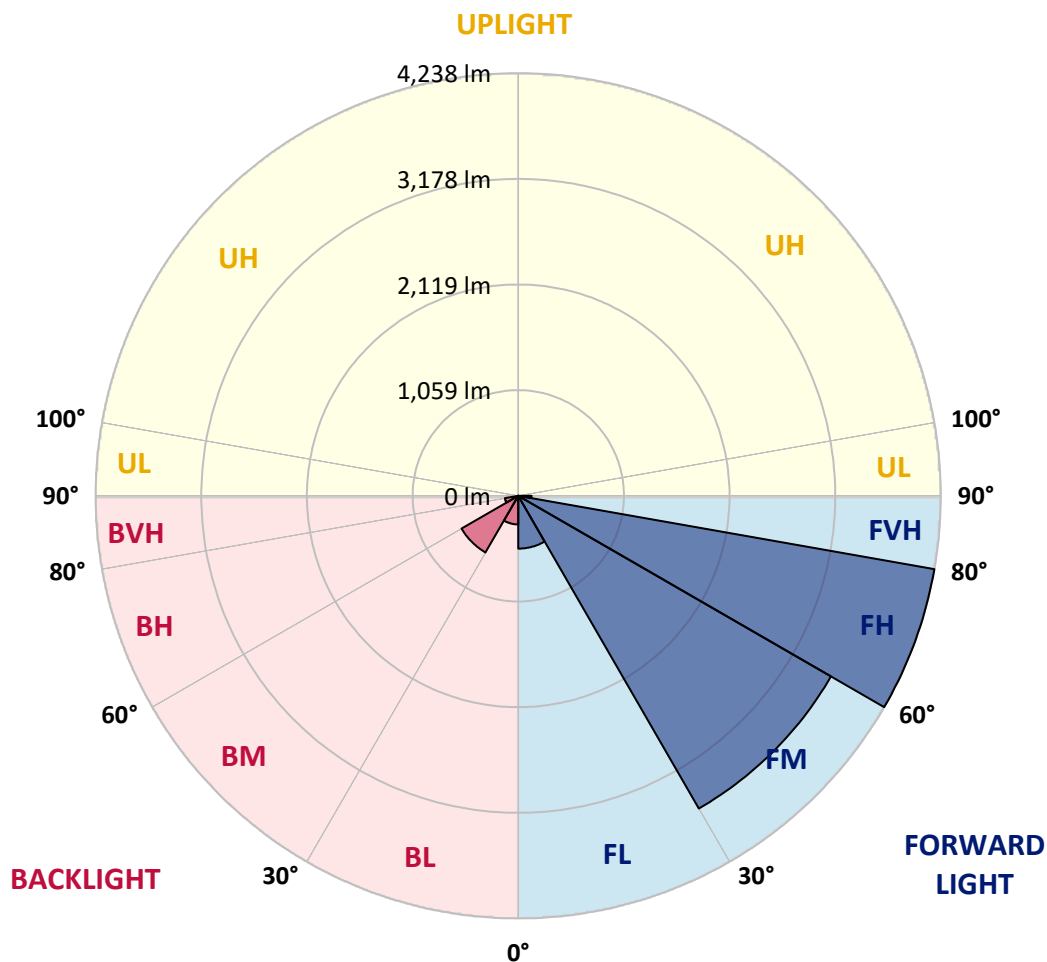
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 529.3  | 5.5       |                         |      |         |
| FM (30°-60°)   | 3621.0 | 37.7      |                         |      |         |
| FH (60°-80°)   | 4237.6 | 44.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 133.6  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 287.2  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 656.1  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 135.6  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6  | 1391.6  | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 |
| 2.5°  | 1329.7 | 1341.0 | 1343.2 | 1346.6 | 1346.6  | 1350.8  | 1357.9 | 1367.8 | 1384.0 | 1392.4 | 1398.0 |
| 5°    | 1225.6 | 1234.1 | 1244.7 | 1253.1 | 1269.3  | 1271.4  | 1298.8 | 1325.5 | 1362.8 | 1391.0 | 1410.7 |
| 7.5°  | 1120.8 | 1130.7 | 1144.7 | 1165.1 | 1186.2  | 1192.6  | 1234.1 | 1279.1 | 1338.2 | 1391.0 | 1424.0 |
| 10°   | 1046.9 | 1047.7 | 1060.3 | 1080.7 | 1114.5  | 1122.2  | 1172.9 | 1236.9 | 1310.8 | 1382.5 | 1436.7 |
| 12.5° | 1005.4 | 1010.3 | 1016.0 | 1031.5 | 1063.8  | 1068.8  | 1122.9 | 1198.2 | 1283.3 | 1377.6 | 1451.5 |
| 15°   | 1005.4 | 1008.9 | 1012.5 | 1020.2 | 1046.2  | 1050.4  | 1098.3 | 1173.5 | 1269.3 | 1379.8 | 1475.4 |
| 17.5° | 1016.0 | 1021.6 | 1018.7 | 1028.0 | 1055.3  | 1058.2  | 1100.4 | 1166.6 | 1268.5 | 1393.1 | 1512.0 |
| 20°   | 1041.3 | 1045.5 | 1039.9 | 1045.5 | 1073.0  | 1078.6  | 1122.2 | 1179.9 | 1280.5 | 1416.3 | 1557.7 |
| 22.5° | 1081.4 | 1083.5 | 1070.1 | 1074.4 | 1102.5  | 1109.6  | 1160.2 | 1217.9 | 1309.3 | 1453.6 | 1619.0 |
| 25°   | 1132.0 | 1136.3 | 1115.9 | 1120.8 | 1147.5  | 1156.0  | 1214.4 | 1274.9 | 1355.0 | 1505.0 | 1697.0 |
| 27.5° | 1190.4 | 1192.6 | 1175.0 | 1174.2 | 1208.8  | 1220.7  | 1279.8 | 1345.2 | 1416.3 | 1569.7 | 1795.5 |
| 30°   | 1257.3 | 1263.6 | 1246.7 | 1243.9 | 1287.5  | 1297.4  | 1355.8 | 1431.8 | 1506.3 | 1666.8 | 1935.5 |
| 32.5° | 1310.1 | 1315.0 | 1305.1 | 1312.2 | 1356.5  | 1364.3  | 1448.0 | 1554.2 | 1647.8 | 1804.7 | 2126.3 |
| 35°   | 1386.0 | 1388.9 | 1366.3 | 1379.0 | 1429.7  | 1449.4  | 1573.9 | 1725.9 | 1825.8 | 1977.7 | 2375.3 |
| 37.5° | 1661.1 | 1661.1 | 1565.5 | 1502.9 | 1551.4  | 1569.0  | 1746.3 | 1941.9 | 2045.3 | 2209.9 | 2689.1 |
| 40°   | 2041.8 | 2035.4 | 1895.4 | 1767.4 | 1761.1  | 1795.5  | 1991.9 | 2214.2 | 2328.8 | 2488.6 | 3042.3 |
| 42.5° | 2447.8 | 2437.9 | 2247.2 | 2120.6 | 2099.5  | 2111.4  | 2275.4 | 2549.8 | 2666.5 | 2828.4 | 3422.2 |
| 45°   | 2808.0 | 2805.2 | 2630.7 | 2460.4 | 2422.4  | 2460.4  | 2629.2 | 2942.4 | 3026.1 | 3196.4 | 3801.4 |
| 47.5° | 3109.8 | 3109.8 | 2982.4 | 2871.3 | 2851.7  | 2874.1  | 3108.4 | 3377.9 | 3370.1 | 3588.2 | 4170.8 |
| 50°   | 3457.4 | 3454.6 | 3333.6 | 3285.7 | 3306.1  | 3337.8  | 3660.1 | 3836.6 | 3726.2 | 3973.1 | 4500.8 |
| 52.5° | 3700.9 | 3717.7 | 3676.2 | 3668.5 | 3772.6  | 3827.5  | 4220.0 | 4285.5 | 4044.9 | 4338.3 | 4747.8 |
| 55°   | 3893.6 | 3913.3 | 3961.1 | 4015.3 | 4215.8  | 4287.6  | 4762.6 | 4711.2 | 4311.6 | 4654.8 | 4889.9 |
| 57.5° | 4166.6 | 4138.4 | 4212.3 | 4319.2 | 4643.7  | 4730.2  | 5288.1 | 5112.9 | 4526.1 | 4911.7 | 4905.3 |
| 60°   | 4498.0 | 4502.2 | 4514.9 | 4649.9 | 5070.7  | 5181.9  | 5805.9 | 5492.9 | 4664.1 | 5069.3 | 4733.7 |
| 62.5° | 4896.2 | 4902.6 | 4928.6 | 5136.2 | 5644.2  | 5748.9  | 6357.6 | 5803.9 | 4727.4 | 5025.0 | 4290.4 |
| 65°   | 4868.8 | 4895.5 | 5186.1 | 5896.0 | 6515.8  | 6619.2  | 7001.4 | 6022.0 | 4631.7 | 4619.7 | 3493.3 |
| 67.5° | 4435.4 | 4478.9 | 4965.2 | 6803.6 | 7830.2  | 7945.5  | 7779.4 | 6064.8 | 4218.7 | 3592.5 | 2278.9 |
| 70°   | 3866.9 | 3882.4 | 4467.1 | 7619.7 | 9352.0  | 9468.7  | 8476.0 | 5592.7 | 3201.3 | 2003.8 | 1020.9 |
| 72.5° | 3019.8 | 3023.2 | 3709.3 | 7809.1 | 10177.9 | 10184.3 | 7929.3 | 4151.9 | 1721.7 | 769.7  | 354.6  |
| 75°   | 2157.2 | 2136.1 | 2484.3 | 6333.0 | 8954.5  | 9026.3  | 5944.6 | 1947.5 | 657.8  | 363.8  | 176.6  |
| 77.5° | 1156.7 | 1179.9 | 1405.8 | 3755.7 | 6185.9  | 6308.3  | 3243.5 | 561.5  | 334.9  | 247.6  | 116.7  |
| 80°   | 357.4  | 377.1  | 576.3  | 1719.5 | 3503.9  | 3577.7  | 1202.4 | 249.8  | 233.6  | 176.6  | 76.7   |
| 82.5° | 112.5  | 116.7  | 268.8  | 722.6  | 1454.3  | 1488.1  | 348.3  | 141.4  | 159.7  | 116.7  | 45.0   |
| 85°   | 32.4   | 33.1   | 119.6  | 269.5  | 359.6   | 366.5   | 97.8   | 54.8   | 91.4   | 72.5   | 23.3   |
| 87.5° | 3.5    | 11.3   | 45.0   | 45.0   | 31.7    | 31.0    | 10.6   | 12.0   | 26.0   | 9.1    | 4.2    |
| 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°    | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 |
| 2.5°  | 1394.5 | 1395.2 | 1386.0 | 1370.5 | 1353.7 | 1339.6 | 1322.0 | 1308.0 | 1298.1 | 1295.3 | 1300.2 |
| 5°    | 1404.4 | 1399.4 | 1373.4 | 1326.2 | 1270.0 | 1221.4 | 1167.3 | 1124.3 | 1096.1 | 1084.2 | 1088.4 |
| 7.5°  | 1419.1 | 1405.1 | 1348.1 | 1255.2 | 1147.5 | 1051.9 | 954.8  | 879.4  | 831.6  | 807.7  | 811.2  |
| 10°   | 1431.8 | 1403.6 | 1305.8 | 1152.5 | 987.8  | 842.9  | 712.1  | 621.3  | 570.6  | 546.6  | 547.3  |
| 12.5° | 1443.7 | 1402.9 | 1251.0 | 1030.7 | 807.7  | 630.4  | 508.7  | 463.7  | 449.6  | 444.6  | 443.2  |
| 15°   | 1466.3 | 1405.1 | 1182.0 | 891.4  | 628.3  | 476.3  | 432.0  | 431.3  | 434.1  | 432.7  | 432.0  |
| 17.5° | 1497.2 | 1407.1 | 1103.9 | 743.6  | 484.7  | 420.0  | 417.9  | 424.2  | 428.4  | 426.4  | 425.7  |
| 20°   | 1537.3 | 1415.6 | 1020.9 | 597.4  | 416.6  | 406.0  | 410.9  | 416.6  | 420.0  | 416.6  | 415.8  |
| 22.5° | 1593.6 | 1430.4 | 930.1  | 479.8  | 394.7  | 397.5  | 401.7  | 408.1  | 411.6  | 406.7  | 406.0  |
| 25°   | 1662.6 | 1453.6 | 840.8  | 417.2  | 384.2  | 387.7  | 394.0  | 401.1  | 405.3  | 400.4  | 399.6  |
| 27.5° | 1751.9 | 1490.9 | 758.5  | 403.1  | 373.6  | 375.7  | 384.9  | 395.4  | 401.1  | 394.7  | 394.7  |
| 30°   | 1881.4 | 1552.1 | 687.4  | 409.5  | 367.3  | 362.3  | 375.0  | 389.8  | 396.2  | 390.5  | 389.8  |
| 32.5° | 2053.1 | 1638.7 | 643.8  | 419.3  | 364.5  | 346.9  | 358.9  | 377.8  | 388.4  | 384.9  | 384.9  |
| 35°   | 2278.2 | 1770.2 | 626.9  | 430.6  | 362.3  | 330.7  | 339.2  | 359.6  | 377.8  | 381.3  | 381.3  |
| 37.5° | 2551.2 | 1953.1 | 631.8  | 435.5  | 356.0  | 317.3  | 321.5  | 339.2  | 363.1  | 374.3  | 377.1  |
| 40°   | 2861.5 | 2166.3 | 660.0  | 430.6  | 349.0  | 306.1  | 306.8  | 320.1  | 341.2  | 358.1  | 363.8  |
| 42.5° | 3181.6 | 2415.4 | 712.1  | 412.3  | 342.7  | 296.2  | 294.1  | 303.2  | 317.3  | 329.2  | 334.2  |
| 45°   | 3486.2 | 2671.5 | 763.4  | 386.9  | 334.9  | 286.4  | 281.5  | 285.0  | 287.7  | 292.7  | 295.5  |
| 47.5° | 3752.2 | 2851.7 | 748.7  | 363.8  | 324.3  | 275.1  | 266.7  | 265.3  | 256.8  | 256.1  | 255.4  |
| 50°   | 3935.8 | 2891.0 | 664.9  | 340.5  | 308.8  | 262.4  | 249.1  | 240.7  | 225.8  | 218.8  | 219.6  |
| 52.5° | 3994.2 | 2735.5 | 543.1  | 317.3  | 283.5  | 245.6  | 226.5  | 213.2  | 194.9  | 188.6  | 187.9  |
| 55°   | 3916.8 | 2430.9 | 434.1  | 289.2  | 248.4  | 223.0  | 201.9  | 184.3  | 169.5  | 161.8  | 161.8  |
| 57.5° | 3727.5 | 2043.2 | 343.4  | 256.1  | 211.0  | 197.7  | 176.6  | 159.0  | 146.4  | 138.6  | 137.2  |
| 60°   | 3413.8 | 1622.5 | 271.6  | 216.7  | 180.1  | 170.3  | 148.4  | 137.2  | 126.0  | 116.7  | 114.7  |
| 62.5° | 2937.4 | 1158.0 | 213.2  | 171.7  | 150.6  | 139.3  | 126.7  | 118.2  | 104.9  | 92.1   | 90.1   |
| 65°   | 2292.3 | 708.5  | 164.6  | 126.0  | 121.1  | 115.4  | 107.6  | 99.9   | 83.7   | 71.0   | 69.0   |
| 67.5° | 1445.9 | 335.6  | 117.5  | 95.0   | 95.7   | 92.9   | 89.4   | 83.0   | 71.0   | 59.8   | 58.4   |
| 70°   | 636.7  | 162.6  | 77.4   | 72.5   | 71.0   | 71.0   | 73.9   | 71.8   | 60.5   | 49.9   | 47.9   |
| 72.5° | 216.7  | 87.2   | 57.7   | 54.8   | 51.4   | 50.6   | 61.9   | 59.8   | 48.6   | 38.7   | 36.6   |
| 75°   | 113.3  | 58.4   | 42.2   | 39.4   | 31.0   | 37.3   | 49.2   | 46.4   | 34.4   | 25.3   | 23.3   |
| 77.5° | 73.9   | 41.5   | 28.8   | 25.3   | 17.6   | 24.6   | 36.6   | 32.4   | 20.4   | 12.7   | 11.3   |
| 80°   | 46.4   | 27.5   | 16.9   | 12.0   | 8.4    | 13.3   | 19.7   | 14.0   | 7.8    | 2.8    | 2.2    |
| 82.5° | 24.6   | 14.0   | 6.4    | 4.2    | 3.5    | 4.2    | 4.9    | 3.5    | 1.4    | 0.0    | 0.0    |
| 85°   | 9.8    | 4.9    | 2.2    | 1.4    | 0.7    | 0.0    | 1.4    | 0.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.5    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)