

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: P970013

Luminaire Tested: **NAV-SB6A-835-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970013  
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-SB6A-835-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25705 lumens  
Efficiency: N/A  
Efficacy: 150.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9  
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



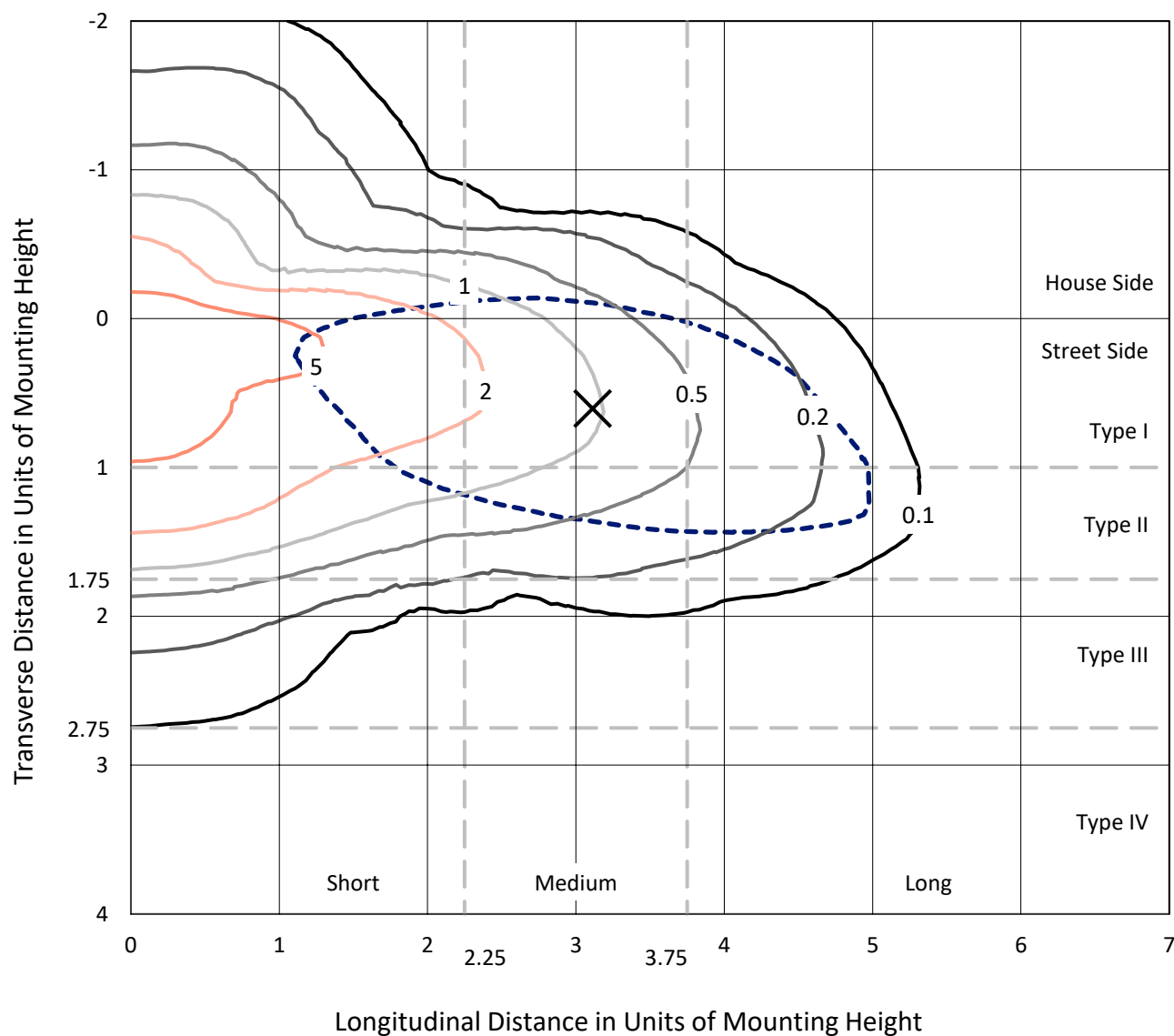
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

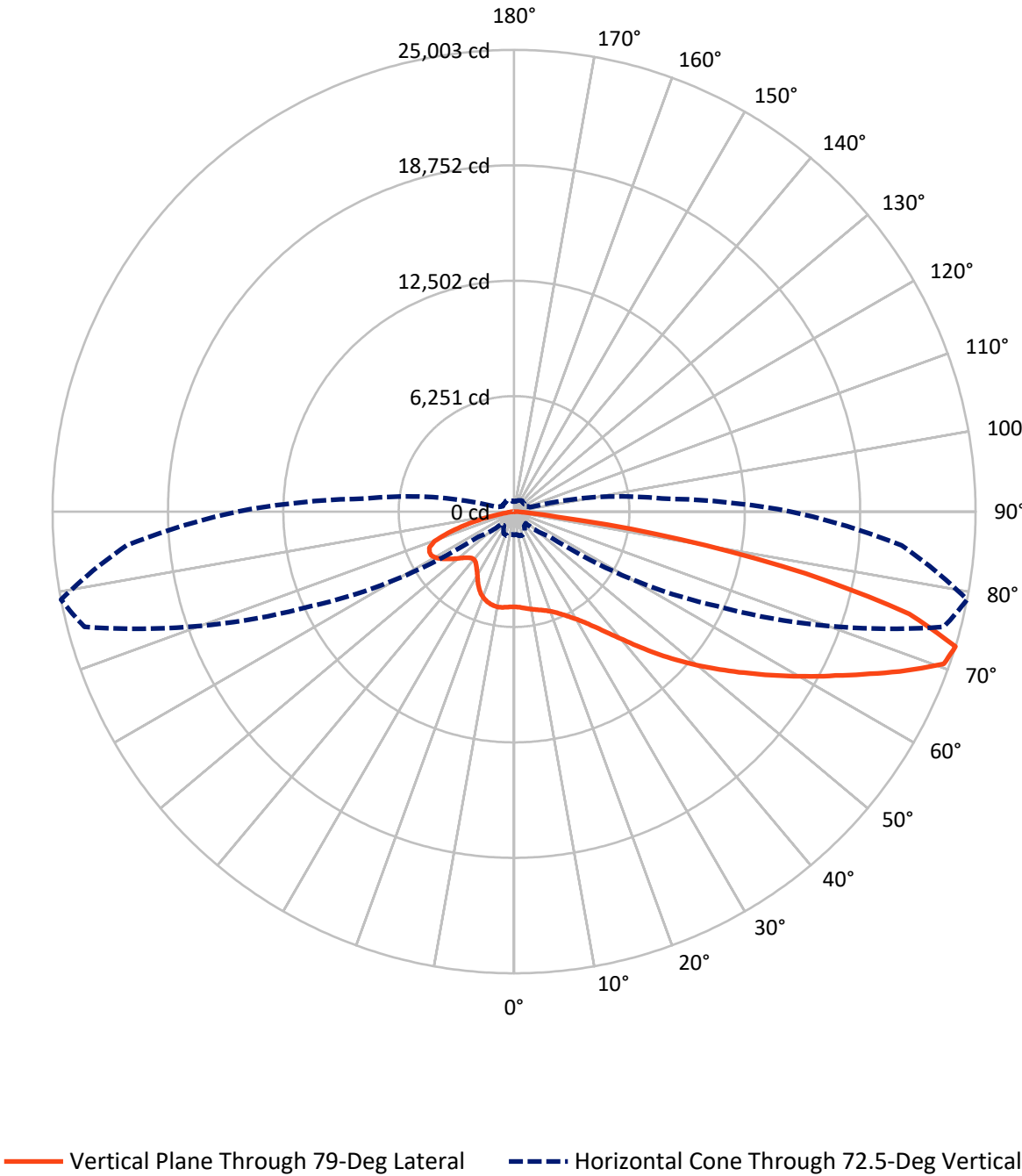
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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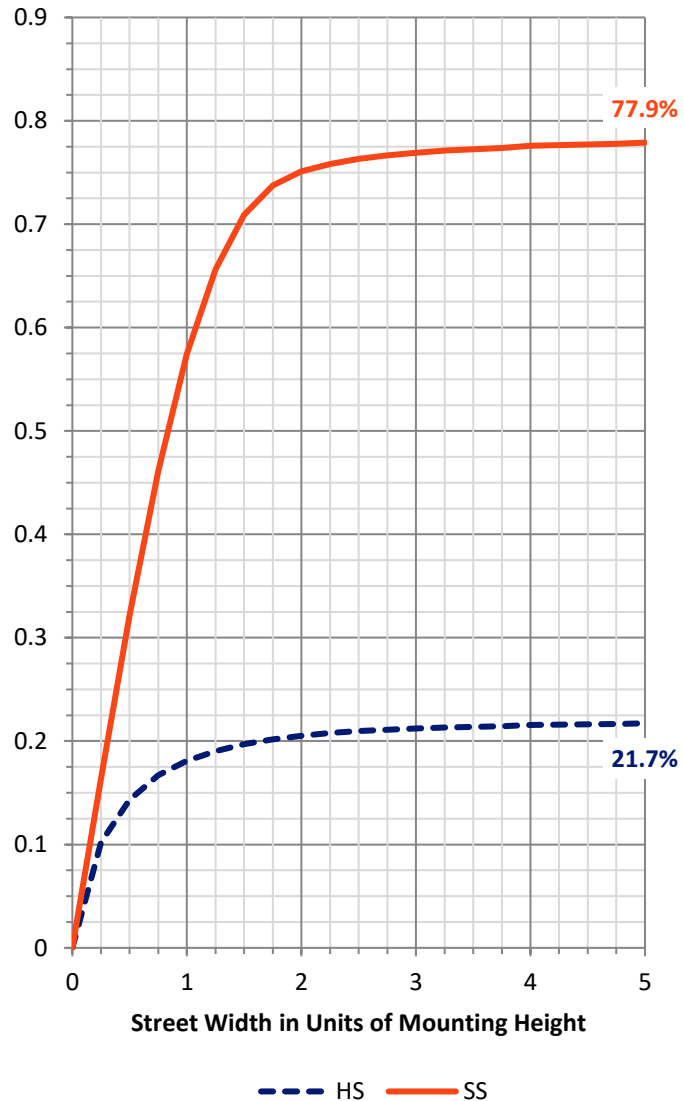
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5656.5   | 0.0    | 5656.5  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 20048.5  | 0.0    | 20048.5 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 25705.0  | 0.0    | 25705.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 468.4   | 1.8       |
| 10°-20°   | 1224.6  | 4.8       |
| 20°-30°   | 1976.0  | 7.7       |
| 30°-40°   | 2965.7  | 11.5      |
| 40°-50°   | 4207.0  | 16.4      |
| 50°-60°   | 5312.8  | 20.7      |
| 60°-70°   | 5395.9  | 21.0      |
| 70°-80°   | 3677.5  | 14.3      |
| 80°-90°   | 477.1   | 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°    | 25705.0 | 100.0     |
| 0°-180°   | 25705.0 | 100.0     |

**Coefficient of Utilization**



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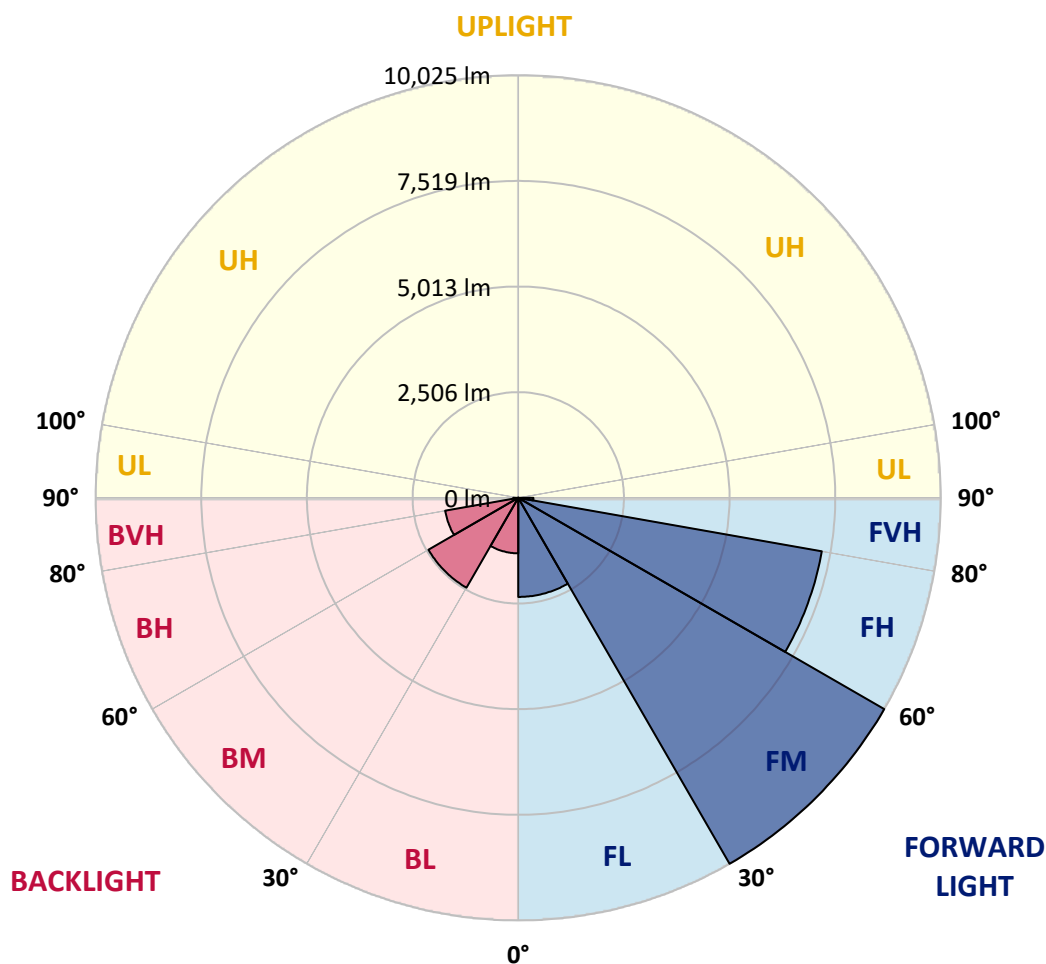
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2351.4  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 10025.5 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 7312.2  | 28.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 359.4   | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1317.6  | 5.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2460.0  | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1761.3  | 6.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 117.7   | 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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1  | 5160.1  | 5160.1  | 5160.1  | 5160.1  |
| 2.5°  | 5162.7 | 5138.2 | 5153.2 | 5147.8 | 5154.6 | 5162.7 | 5165.5  | 5169.6  | 5183.1  | 5181.8  | 5180.5  |
| 5°    | 5151.9 | 5127.4 | 5147.8 | 5141.0 | 5158.6 | 5177.7 | 5194.0  | 5208.9  | 5230.7  | 5240.2  | 5226.7  |
| 7.5°  | 5128.8 | 5112.4 | 5132.8 | 5153.2 | 5185.9 | 5214.4 | 5237.5  | 5271.5  | 5302.8  | 5308.3  | 5317.7  |
| 10°   | 4994.1 | 4981.9 | 5029.5 | 5082.6 | 5172.3 | 5249.7 | 5300.1  | 5339.5  | 5373.5  | 5378.9  | 5392.5  |
| 12.5° | 4854.1 | 4839.1 | 4892.1 | 4964.3 | 5109.7 | 5249.7 | 5355.8  | 5407.5  | 5437.4  | 5455.0  | 5475.4  |
| 15°   | 4831.0 | 4818.7 | 4848.7 | 4911.2 | 5032.2 | 5213.0 | 5393.9  | 5489.1  | 5514.9  | 5535.3  | 5543.5  |
| 17.5° | 4942.4 | 4919.4 | 4931.6 | 4953.3 | 5024.0 | 5179.0 | 5423.8  | 5581.5  | 5621.0  | 5642.7  | 5642.7  |
| 20°   | 5200.8 | 5168.2 | 5149.2 | 5105.6 | 5093.4 | 5184.4 | 5421.1  | 5693.1  | 5744.7  | 5771.9  | 5778.6  |
| 22.5° | 5544.8 | 5523.1 | 5482.3 | 5372.1 | 5252.5 | 5251.1 | 5472.8  | 5835.8  | 5932.3  | 5958.1  | 5941.8  |
| 25°   | 5960.9 | 5928.3 | 5876.5 | 5727.0 | 5497.2 | 5383.0 | 5559.8  | 6018.0  | 6179.8  | 6186.6  | 6139.0  |
| 27.5° | 6439.5 | 6390.6 | 6319.8 | 6122.7 | 5812.7 | 5589.7 | 5693.1  | 6227.4  | 6464.0  | 6461.3  | 6363.3  |
| 30°   | 6944.0 | 6895.0 | 6820.2 | 6580.9 | 6190.7 | 5868.4 | 5878.0  | 6453.1  | 6801.2  | 6786.2  | 6618.9  |
| 32.5° | 7312.5 | 7275.7 | 7260.8 | 7075.8 | 6625.8 | 6197.5 | 6090.0  | 6703.3  | 7217.2  | 7203.6  | 6969.8  |
| 35°   | 7595.2 | 7547.7 | 7565.3 | 7471.5 | 7100.3 | 6565.9 | 6349.8  | 7001.1  | 7723.1  | 7721.6  | 7430.7  |
| 37.5° | 7875.3 | 7833.2 | 7848.1 | 7785.6 | 7539.5 | 7033.7 | 6666.6  | 7365.4  | 8349.9  | 8379.8  | 7988.1  |
| 40°   | 8130.9 | 8086.1 | 8145.9 | 8087.5 | 7880.8 | 7531.3 | 7026.9  | 7777.4  | 9076.0  | 9133.1  | 8662.6  |
| 42.5° | 8284.6 | 8249.2 | 8348.5 | 8349.9 | 8177.1 | 7951.4 | 7422.5  | 8231.6  | 9916.3  | 10044.1 | 9492.0  |
| 45°   | 8337.7 | 8325.4 | 8474.9 | 8506.3 | 8439.6 | 8194.9 | 7778.8  | 8726.5  | 10821.7 | 11050.2 | 10437.0 |
| 47.5° | 8280.5 | 8257.4 | 8464.0 | 8579.7 | 8632.7 | 8309.1 | 8073.8  | 9262.2  | 11746.4 | 12080.9 | 11467.6 |
| 50°   | 7992.2 | 7947.4 | 8254.6 | 8498.1 | 8687.1 | 8383.9 | 8371.6  | 9880.9  | 12797.4 | 13163.2 | 12503.7 |
| 52.5° | 7474.2 | 7440.3 | 7789.7 | 8212.5 | 8567.4 | 8420.6 | 8706.1  | 10556.7 | 13795.4 | 14268.6 | 13565.7 |
| 55°   | 6812.0 | 6767.2 | 7151.9 | 7704.0 | 8269.6 | 8408.3 | 9040.6  | 11312.6 | 14972.9 | 15452.9 | 14662.9 |
| 57.5° | 5762.3 | 5672.7 | 6159.4 | 6812.0 | 7784.3 | 8393.4 | 9388.7  | 12064.6 | 16169.5 | 16744.6 | 15833.6 |
| 60°   | 4231.4 | 4098.2 | 4695.0 | 5468.7 | 6835.2 | 8247.9 | 9819.7  | 12907.5 | 17605.3 | 18123.3 | 17111.7 |
| 62.5° | 2463.8 | 2386.3 | 2776.5 | 3498.5 | 5151.9 | 7391.3 | 10061.7 | 13887.8 | 19016.6 | 19560.5 | 18368.1 |
| 65°   | 1913.1 | 1891.3 | 1925.4 | 1981.0 | 2867.5 | 5534.0 | 9315.2  | 14843.7 | 20811.4 | 21192.2 | 19677.4 |
| 67.5° | 1749.9 | 1733.6 | 1748.5 | 1643.9 | 1454.9 | 3082.4 | 7369.5  | 15085.7 | 22734.0 | 22965.1 | 20823.7 |
| 70°   | 1555.4 | 1536.5 | 1585.4 | 1495.7 | 1144.8 | 1401.8 | 4761.6  | 14207.4 | 24263.7 | 24697.4 | 21695.3 |
| 72.5° | 1267.2 | 1245.5 | 1359.7 | 1318.9 | 964.0  | 900.2  | 2391.7  | 12120.3 | 24103.2 | 25003.3 | 21071.1 |
| 75°   | 973.5  | 961.3  | 1097.3 | 1131.3 | 785.9  | 708.4  | 1147.6  | 9009.3  | 21211.1 | 22118.1 | 18160.0 |
| 77.5° | 755.9  | 746.5  | 815.8  | 939.5  | 633.7  | 549.3  | 705.7   | 5714.8  | 15984.6 | 16143.6 | 12514.6 |
| 80°   | 567.0  | 539.8  | 603.7  | 727.4  | 493.5  | 401.1  | 478.6   | 3332.6  | 10103.8 | 9158.9  | 5447.0  |
| 82.5° | 354.9  | 341.3  | 394.3  | 485.4  | 348.1  | 276.0  | 311.4   | 1841.0  | 4049.2  | 2384.9  | 1051.0  |
| 85°   | 202.6  | 197.1  | 214.8  | 277.4  | 189.0  | 159.1  | 178.1   | 813.1   | 739.6   | 508.5   | 316.8   |
| 87.5° | 81.6   | 78.8   | 97.9   | 123.7  | 69.4   | 58.4   | 62.5    | 195.8   | 163.2   | 150.9   | 104.7   |
| 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°    | 5160.1  | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 | 5160.1 |
| 2.5°  | 5175.0  | 5175.0 | 5156.0 | 5126.0 | 5092.0 | 5070.3 | 5034.9 | 5025.4 | 4988.7 | 4977.8 | 4995.5 |
| 5°    | 5237.5  | 5226.7 | 5168.2 | 5083.9 | 4968.3 | 4862.3 | 4745.3 | 4671.8 | 4568.5 | 4531.8 | 4559.0 |
| 7.5°  | 5316.4  | 5286.4 | 5185.9 | 5001.0 | 4758.9 | 4521.0 | 4273.5 | 4085.9 | 3906.4 | 3842.5 | 3850.6 |
| 10°   | 5388.4  | 5346.3 | 5175.0 | 4851.3 | 4432.6 | 4020.6 | 3626.2 | 3350.3 | 3140.9 | 3055.2 | 3074.3 |
| 12.5° | 5460.5  | 5383.0 | 5103.0 | 4602.6 | 3968.9 | 3410.1 | 2989.9 | 2775.1 | 2645.9 | 2542.6 | 2576.6 |
| 15°   | 5528.5  | 5419.7 | 4991.4 | 4269.4 | 3460.4 | 2893.4 | 2583.4 | 2412.1 | 2308.7 | 2240.8 | 2253.1 |
| 17.5° | 5607.4  | 5451.0 | 4824.2 | 3846.5 | 2976.4 | 2535.8 | 2282.9 | 2179.6 | 2159.2 | 2151.1 | 2156.5 |
| 20°   | 5717.4  | 5479.5 | 4603.9 | 3373.4 | 2620.1 | 2250.3 | 2119.8 | 2110.3 | 2108.8 | 2104.8 | 2118.4 |
| 22.5° | 5835.8  | 5513.6 | 4312.9 | 2943.7 | 2316.9 | 2072.1 | 2049.1 | 2030.0 | 2017.8 | 2016.4 | 2031.3 |
| 25°   | 5975.9  | 5524.4 | 3948.5 | 2591.6 | 2058.6 | 1987.9 | 1960.7 | 1932.1 | 1923.9 | 1923.9 | 1932.1 |
| 27.5° | 6111.8  | 5487.7 | 3524.4 | 2285.6 | 1913.1 | 1910.4 | 1875.0 | 1865.5 | 1864.2 | 1868.2 | 1879.1 |
| 30°   | 6247.8  | 5418.4 | 3102.8 | 2002.8 | 1828.8 | 1828.8 | 1816.5 | 1823.4 | 1828.8 | 1842.3 | 1851.9 |
| 32.5° | 6431.4  | 5345.0 | 2750.7 | 1793.4 | 1755.3 | 1741.8 | 1754.0 | 1767.6 | 1773.0 | 1790.7 | 1805.6 |
| 35°   | 6700.5  | 5293.3 | 2470.6 | 1679.3 | 1679.3 | 1661.5 | 1668.3 | 1665.6 | 1653.4 | 1645.2 | 1664.3 |
| 37.5° | 7056.8  | 5290.5 | 2239.4 | 1626.2 | 1615.3 | 1612.6 | 1614.0 | 1596.2 | 1548.7 | 1491.6 | 1492.9 |
| 40°   | 7485.1  | 5363.9 | 2061.3 | 1589.5 | 1581.4 | 1597.7 | 1589.5 | 1541.9 | 1411.3 | 1312.1 | 1309.3 |
| 42.5° | 8060.3  | 5573.3 | 1947.1 | 1544.6 | 1569.1 | 1589.5 | 1556.9 | 1392.4 | 1303.9 | 1237.3 | 1234.6 |
| 45°   | 8737.4  | 5913.3 | 1888.6 | 1497.0 | 1546.0 | 1570.4 | 1412.8 | 1340.7 | 1270.0 | 1189.7 | 1184.3 |
| 47.5° | 9504.2  | 6341.6 | 1875.0 | 1452.1 | 1494.3 | 1509.2 | 1351.6 | 1318.9 | 1238.7 | 1151.7 | 1144.8 |
| 50°   | 10339.1 | 6848.7 | 1911.7 | 1399.1 | 1419.5 | 1367.9 | 1331.2 | 1301.2 | 1218.3 | 1132.6 | 1123.1 |
| 52.5° | 11202.5 | 7407.6 | 1985.1 | 1327.1 | 1344.7 | 1287.6 | 1323.0 | 1297.1 | 1206.0 | 1090.5 | 1082.3 |
| 55°   | 12050.9 | 7970.5 | 2055.8 | 1242.7 | 1268.5 | 1215.5 | 1299.9 | 1280.8 | 1150.3 | 1019.8 | 1013.0 |
| 57.5° | 12912.9 | 8530.7 | 2125.2 | 1168.0 | 1195.1 | 1146.3 | 1263.1 | 1237.3 | 1087.7 | 954.5  | 951.8  |
| 60°   | 13809.0 | 9074.5 | 2157.8 | 1095.9 | 1115.0 | 1082.3 | 1207.4 | 1162.6 | 1017.0 | 887.9  | 883.8  |
| 62.5° | 14648.0 | 9527.4 | 2104.8 | 1023.9 | 1036.1 | 1022.4 | 1134.0 | 1074.2 | 946.4  | 813.1  | 811.7  |
| 65°   | 15489.6 | 9796.5 | 1941.7 | 953.1  | 955.8  | 949.0  | 1030.6 | 979.0  | 863.4  | 747.8  | 739.6  |
| 67.5° | 16252.4 | 9947.5 | 1681.9 | 877.0  | 870.2  | 867.5  | 934.1  | 875.7  | 783.2  | 682.5  | 674.4  |
| 70°   | 16414.1 | 9564.1 | 1284.9 | 787.3  | 787.3  | 780.4  | 828.1  | 768.2  | 694.8  | 613.3  | 610.5  |
| 72.5° | 14992.0 | 8045.3 | 912.4  | 685.3  | 696.2  | 682.5  | 722.0  | 671.7  | 605.1  | 550.6  | 534.3  |
| 75°   | 12089.1 | 5899.7 | 663.5  | 580.6  | 599.6  | 576.5  | 613.3  | 577.9  | 520.8  | 519.4  | 467.7  |
| 77.5° | 8306.4  | 3648.1 | 481.3  | 478.6  | 492.2  | 462.3  | 504.4  | 485.4  | 433.8  | 410.6  | 384.8  |
| 80°   | 3544.8  | 1454.9 | 350.8  | 369.8  | 369.8  | 342.7  | 391.5  | 397.0  | 352.2  | 341.3  | 341.3  |
| 82.5° | 705.7   | 413.4  | 246.1  | 254.3  | 239.3  | 231.1  | 277.4  | 307.3  | 424.2  | 471.8  | 473.1  |
| 85°   | 212.1   | 152.3  | 148.2  | 138.7  | 122.4  | 123.7  | 163.2  | 308.6  | 380.7  | 217.5  | 187.7  |
| 87.5° | 58.4    | 38.0   | 39.5   | 31.3   | 25.8   | 34.0   | 55.8   | 233.9  | 127.8  | 54.4   | 46.2   |
| 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)