

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: P962553

Luminaire Tested: **NAV-SB2C-760-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P962553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-760-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13751.4 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
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

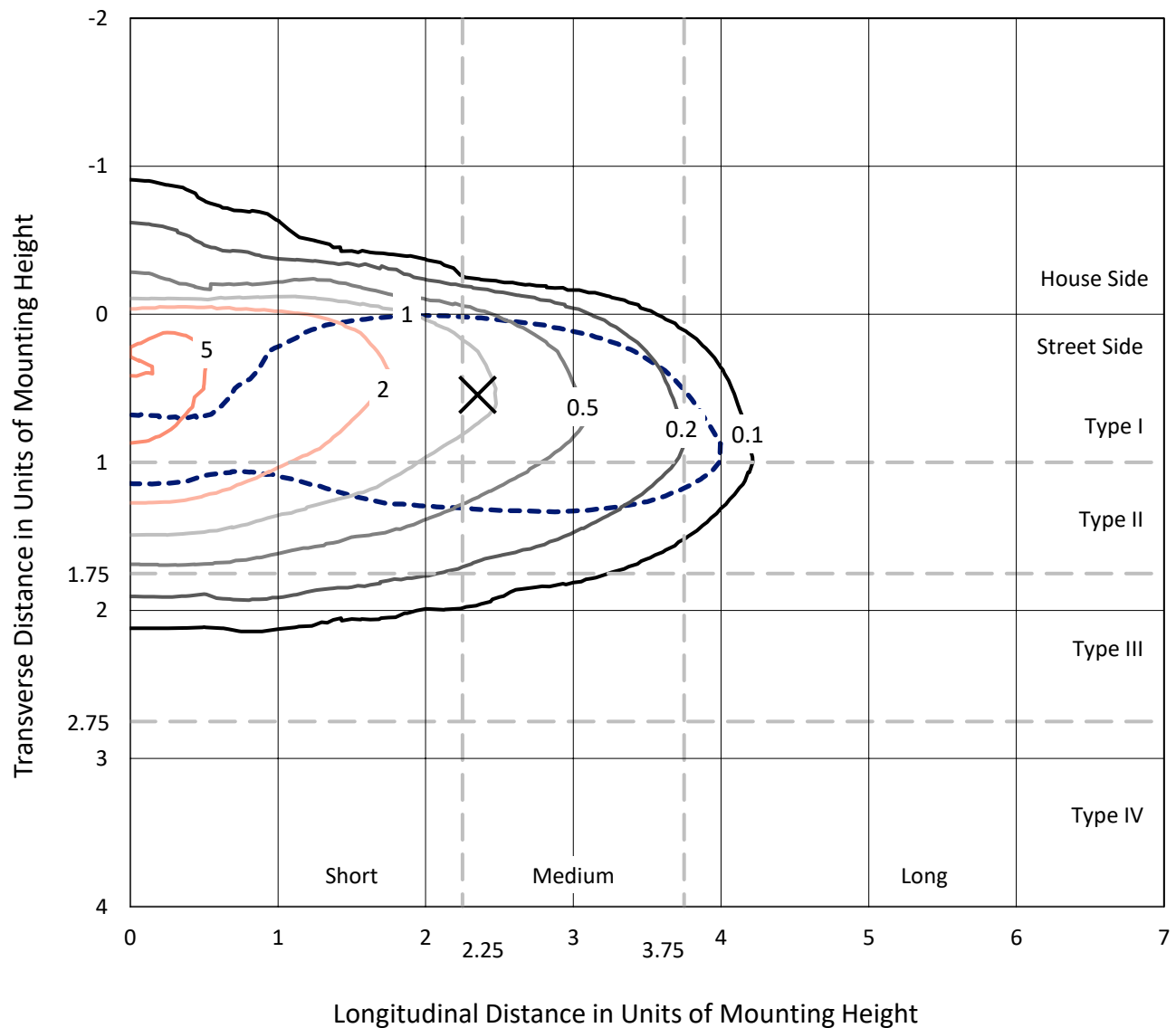


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## Iso-Footcandle Lines of Horizontal Illumination

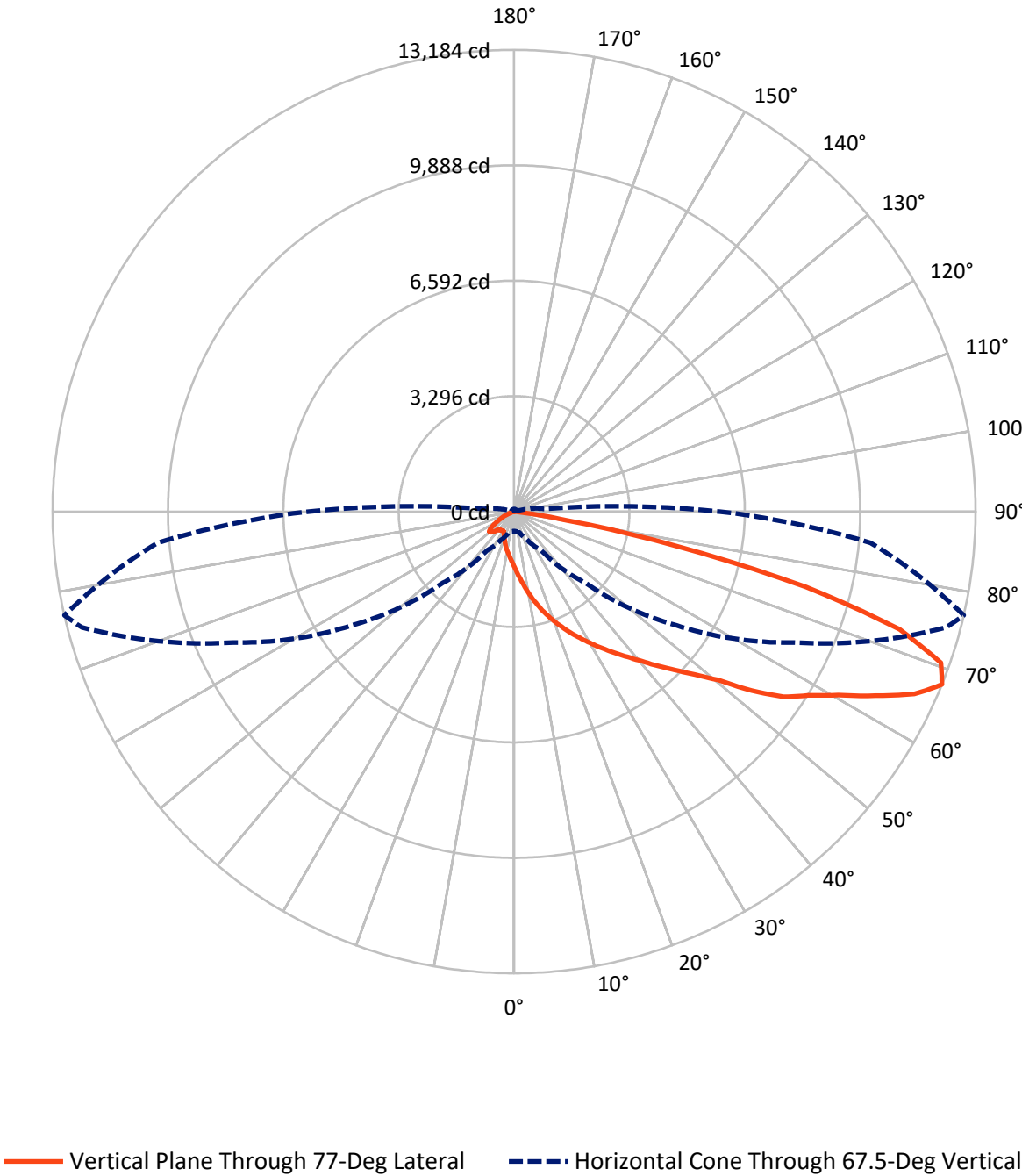
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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    | 1011.7   | 0.0    | 1011.7  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 12739.7  | 0.0    | 12739.7 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 13751.4  | 0.0    | 13751.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 161.8   | 1.2       |
| 10°-20°   | 566.8   | 4.1       |
| 20°-30°   | 1093.7  | 8.0       |
| 30°-40°   | 1898.8  | 13.8      |
| 40°-50°   | 2756.9  | 20.0      |
| 50°-60°   | 3166.0  | 23.0      |
| 60°-70°   | 2748.7  | 20.0      |
| 70°-80°   | 1294.6  | 9.4       |
| 80°-90°   | 64.0    | 0.5       |
| 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°    | 13751.4 | 100.0     |
| 0°-180°   | 13751.4 | 100.0     |

**Coefficient of Utilization**



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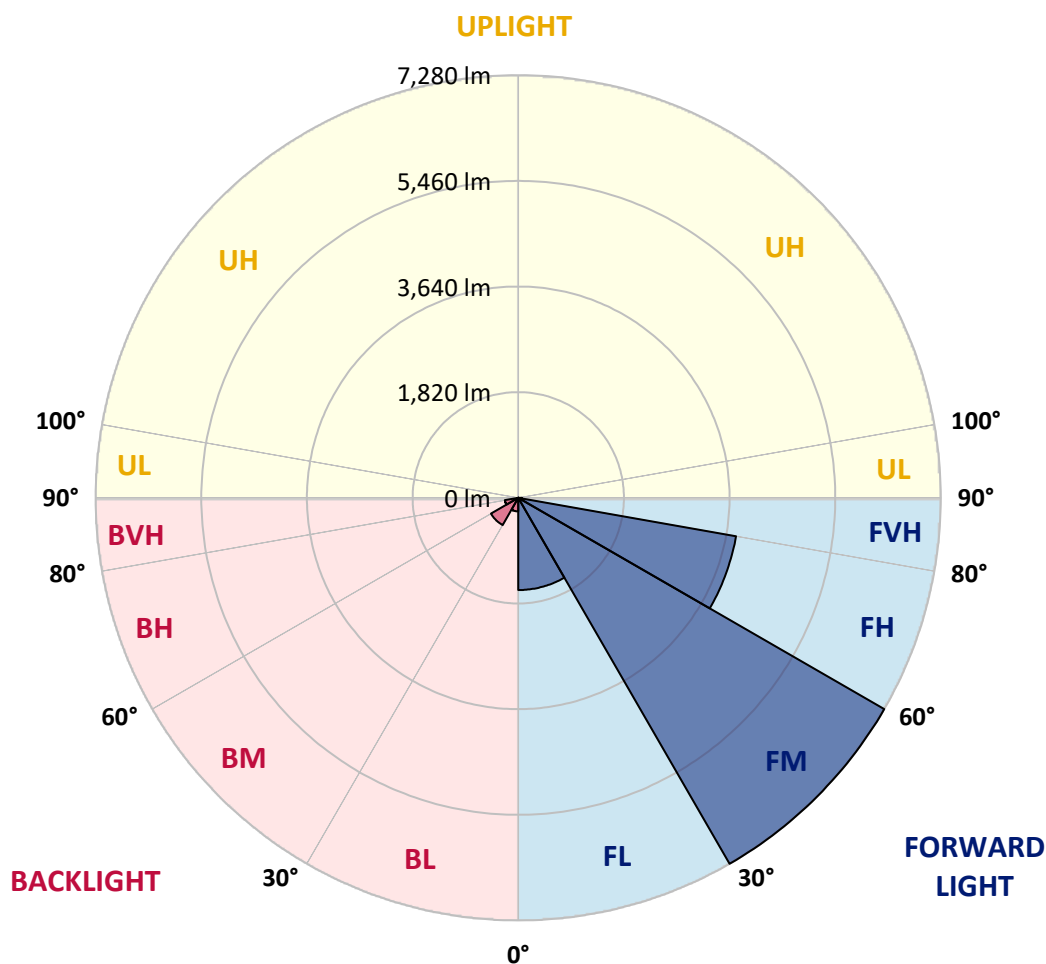
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1588.1 | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 7279.6 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 3809.1 | 27.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 62.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 234.2  | 1.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 542.1  | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 234.2  | 1.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.2    | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 77°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8  | 1585.8  | 1585.8  |
| 2.5°  | 2195.4 | 2209.1 | 2189.5 | 2151.9 | 2095.5 | 2058.8 | 1969.1 | 1884.6 | 1790.7  | 1760.7  | 1666.9  |
| 5°    | 2676.2 | 2688.2 | 2665.9 | 2624.9 | 2549.8 | 2478.0 | 2360.3 | 2183.5 | 1999.9  | 1940.9  | 1774.5  |
| 7.5°  | 3032.3 | 3039.1 | 3030.6 | 2993.0 | 2921.2 | 2840.2 | 2708.7 | 2499.5 | 2227.0  | 2162.1  | 1906.8  |
| 10°   | 3288.5 | 3310.6 | 3308.1 | 3293.6 | 3245.8 | 3180.1 | 3039.9 | 2801.7 | 2481.5  | 2397.8  | 2056.3  |
| 12.5° | 3458.4 | 3483.2 | 3497.7 | 3530.1 | 3527.5 | 3485.7 | 3362.7 | 3110.9 | 2735.1  | 2636.9  | 2224.5  |
| 15°   | 3508.0 | 3534.4 | 3589.9 | 3665.1 | 3731.6 | 3753.0 | 3666.7 | 3414.0 | 3014.3  | 2888.9  | 2397.0  |
| 17.5° | 3479.8 | 3520.8 | 3587.3 | 3706.0 | 3852.1 | 3948.5 | 3939.2 | 3706.9 | 3268.0  | 3124.5  | 2566.1  |
| 20°   | 3542.1 | 3581.4 | 3633.4 | 3733.4 | 3903.3 | 4078.4 | 4148.4 | 3986.9 | 3519.8  | 3369.6  | 2743.6  |
| 22.5° | 3887.1 | 3880.2 | 3885.4 | 3901.6 | 4003.2 | 4176.6 | 4320.9 | 4241.4 | 3769.2  | 3615.5  | 2931.5  |
| 25°   | 4433.5 | 4402.9 | 4350.7 | 4262.8 | 4237.1 | 4320.9 | 4471.2 | 4466.8 | 4032.2  | 3867.4  | 3123.7  |
| 27.5° | 5060.3 | 5055.2 | 4933.1 | 4721.4 | 4601.8 | 4569.3 | 4641.1 | 4686.3 | 4292.7  | 4116.8  | 3316.7  |
| 30°   | 5660.7 | 5674.3 | 5509.5 | 5273.8 | 5054.4 | 4927.2 | 4862.3 | 4894.7 | 4557.4  | 4385.8  | 3515.6  |
| 32.5° | 6183.3 | 6197.8 | 6018.5 | 5742.7 | 5471.1 | 5317.4 | 5180.8 | 5100.5 | 4846.0  | 4659.0  | 3734.2  |
| 35°   | 6624.8 | 6639.2 | 6433.5 | 6128.6 | 5839.1 | 5699.9 | 5545.4 | 5325.9 | 5136.4  | 4962.1  | 3977.6  |
| 37.5° | 7019.3 | 7015.0 | 6739.2 | 6431.8 | 6147.4 | 6037.2 | 5956.2 | 5603.5 | 5435.3  | 5267.0  | 4247.4  |
| 40°   | 7252.4 | 7270.3 | 7034.7 | 6695.6 | 6419.8 | 6339.5 | 6334.4 | 5947.6 | 5780.2  | 5617.1  | 4542.9  |
| 42.5° | 7320.7 | 7352.3 | 7181.5 | 6903.2 | 6653.0 | 6565.8 | 6699.9 | 6319.9 | 6181.6  | 6022.7  | 4876.7  |
| 45°   | 7197.8 | 7228.5 | 7150.8 | 6957.8 | 6811.7 | 6755.4 | 7014.2 | 6705.9 | 6610.2  | 6453.1  | 5253.3  |
| 47.5° | 6839.1 | 6877.5 | 6896.3 | 6855.3 | 6853.6 | 6910.9 | 7296.0 | 7112.4 | 7119.1  | 6958.6  | 5689.7  |
| 50°   | 6144.9 | 6209.8 | 6382.3 | 6527.4 | 6752.0 | 7033.8 | 7570.0 | 7552.9 | 7693.0  | 7554.7  | 6258.4  |
| 52.5° | 4882.8 | 4974.9 | 5569.3 | 5966.4 | 6471.0 | 7010.7 | 7871.5 | 8260.1 | 8699.8  | 8497.5  | 7060.2  |
| 55°   | 3923.8 | 3923.8 | 4407.1 | 5150.0 | 5922.9 | 6858.7 | 8003.0 | 8719.5 | 9385.5  | 9337.6  | 7624.7  |
| 57.5° | 3198.8 | 3237.3 | 3545.5 | 4202.2 | 5129.5 | 6496.7 | 8084.1 | 9008.0 | 9938.0  | 9902.9  | 8176.3  |
| 60°   | 1974.3 | 2057.1 | 2639.5 | 3287.6 | 4226.9 | 5851.9 | 8032.8 | 9300.1 | 10608.3 | 10636.5 | 8840.7  |
| 62.5° | 1111.8 | 1142.6 | 1402.1 | 2365.4 | 3286.8 | 4985.2 | 7641.0 | 9463.2 | 11465.6 | 11585.2 | 9525.5  |
| 65°   | 767.7  | 783.1  | 882.9  | 1472.2 | 2278.3 | 3969.0 | 6875.0 | 9361.5 | 12324.7 | 12566.4 | 10106.2 |
| 67.5° | 557.6  | 565.3  | 627.6  | 899.2  | 1351.8 | 2877.7 | 5674.3 | 8849.2 | 12779.8 | 13183.8 | 10217.2 |
| 70°   | 428.7  | 433.8  | 479.1  | 590.9  | 798.4  | 1776.1 | 4121.0 | 7830.5 | 12450.3 | 12932.7 | 9648.5  |
| 72.5° | 348.4  | 353.5  | 388.6  | 437.2  | 529.4  | 1050.3 | 2497.7 | 6359.2 | 10995.2 | 11516.1 | 8213.9  |
| 75°   | 293.8  | 300.6  | 332.2  | 363.8  | 415.0  | 674.6  | 1171.6 | 4428.4 | 8268.6  | 8610.1  | 5711.9  |
| 77.5° | 163.1  | 150.3  | 269.9  | 301.5  | 350.1  | 426.9  | 548.2  | 2606.2 | 4630.8  | 4725.7  | 2534.4  |
| 80°   | 101.6  | 105.1  | 214.3  | 242.5  | 269.0  | 215.1  | 251.0  | 1003.4 | 1605.4  | 1525.1  | 491.0   |
| 82.5° | 5.9    | 13.6   | 164.8  | 175.1  | 184.4  | 92.2   | 94.8   | 340.7  | 386.8   | 355.3   | 87.1    |
| 85°   | 0.0    | 0.0    | 75.1   | 60.6   | 64.1   | 26.4   | 27.4   | 79.4   | 52.1    | 56.4    | 17.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.7    | 0.0    | 2.6    | 5.1    | 6.9    | 2.6     | 3.4     | 5.9     |
| 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°    | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 | 1585.8 |
| 2.5°  | 1607.1 | 1547.3 | 1426.1 | 1307.4 | 1210.8 | 1121.2 | 1057.2 | 996.5  | 965.8  | 964.1  | 962.4  |
| 5°    | 1655.8 | 1530.2 | 1287.7 | 1073.4 | 900.9  | 762.6  | 672.9  | 608.8  | 576.4  | 565.3  | 563.5  |
| 7.5°  | 1724.0 | 1535.3 | 1166.4 | 868.5  | 665.2  | 546.5  | 495.3  | 474.8  | 467.9  | 460.2  | 458.6  |
| 10°   | 1810.4 | 1547.3 | 1058.0 | 699.4  | 524.3  | 464.5  | 444.0  | 435.5  | 430.4  | 425.3  | 423.5  |
| 12.5° | 1906.8 | 1558.4 | 950.4  | 580.7  | 461.1  | 430.4  | 415.8  | 405.6  | 398.8  | 392.8  | 391.1  |
| 15°   | 2000.7 | 1565.3 | 838.6  | 497.8  | 428.7  | 404.0  | 388.6  | 377.4  | 368.1  | 361.2  | 360.4  |
| 17.5° | 2093.9 | 1574.6 | 733.5  | 448.3  | 402.2  | 377.4  | 362.0  | 348.4  | 340.7  | 333.0  | 332.2  |
| 20°   | 2197.2 | 1573.0 | 634.5  | 413.3  | 375.8  | 351.0  | 334.8  | 322.0  | 314.3  | 305.7  | 304.8  |
| 22.5° | 2292.8 | 1564.4 | 547.3  | 383.5  | 348.4  | 324.5  | 306.6  | 293.8  | 286.1  | 279.2  | 278.4  |
| 25°   | 2402.9 | 1557.6 | 474.8  | 356.1  | 322.8  | 298.9  | 279.2  | 267.3  | 258.7  | 252.8  | 251.9  |
| 27.5° | 2508.8 | 1547.3 | 421.9  | 331.3  | 298.1  | 275.0  | 256.1  | 242.5  | 234.8  | 230.5  | 230.5  |
| 30°   | 2613.0 | 1544.8 | 402.2  | 307.4  | 275.8  | 252.8  | 234.0  | 221.2  | 215.1  | 213.5  | 212.6  |
| 32.5° | 2738.5 | 1551.5 | 410.7  | 298.9  | 255.3  | 232.3  | 214.3  | 204.9  | 199.0  | 199.0  | 199.0  |
| 35°   | 2872.6 | 1549.9 | 423.5  | 306.6  | 241.7  | 211.8  | 198.1  | 192.1  | 186.1  | 186.1  | 186.1  |
| 37.5° | 3040.9 | 1552.5 | 433.8  | 319.4  | 236.6  | 194.6  | 187.0  | 179.4  | 175.9  | 175.9  | 175.9  |
| 40°   | 3291.9 | 1636.9 | 428.7  | 330.5  | 234.8  | 182.8  | 167.4  | 164.8  | 162.3  | 162.3  | 162.3  |
| 42.5° | 3599.3 | 1820.6 | 435.5  | 331.3  | 234.0  | 174.2  | 153.8  | 158.9  | 152.8  | 152.0  | 151.2  |
| 45°   | 3935.7 | 2021.2 | 479.1  | 313.3  | 233.1  | 169.9  | 146.9  | 152.8  | 143.5  | 143.5  | 143.5  |
| 47.5° | 4269.6 | 2220.3 | 523.5  | 287.8  | 230.5  | 169.1  | 140.9  | 137.5  | 134.9  | 135.8  | 135.8  |
| 50°   | 4729.9 | 2382.4 | 540.6  | 252.8  | 224.6  | 167.4  | 129.8  | 130.7  | 128.9  | 130.7  | 130.7  |
| 52.5° | 5231.2 | 2416.6 | 520.1  | 213.5  | 207.5  | 162.3  | 122.1  | 125.6  | 124.6  | 126.4  | 126.4  |
| 55°   | 5543.7 | 2379.8 | 429.5  | 177.6  | 181.0  | 141.8  | 114.4  | 121.3  | 121.3  | 121.3  | 121.3  |
| 57.5° | 5866.5 | 2223.6 | 304.8  | 144.3  | 150.3  | 116.1  | 107.6  | 117.0  | 116.1  | 115.3  | 115.3  |
| 60°   | 6098.7 | 1970.9 | 200.7  | 118.7  | 119.5  | 95.6   | 99.9   | 110.2  | 109.3  | 105.1  | 105.1  |
| 62.5° | 6272.1 | 1691.7 | 128.9  | 100.8  | 91.3   | 86.2   | 91.3   | 99.9   | 96.5   | 87.1   | 85.4   |
| 65°   | 6252.4 | 1304.8 | 99.0   | 86.2   | 75.1   | 75.1   | 79.4   | 87.1   | 76.9   | 61.5   | 59.8   |
| 67.5° | 5887.8 | 882.9  | 82.0   | 72.6   | 63.1   | 62.3   | 65.7   | 72.6   | 65.7   | 52.1   | 50.4   |
| 70°   | 5236.3 | 577.3  | 65.7   | 56.4   | 50.4   | 46.1   | 53.0   | 62.3   | 55.6   | 41.8   | 40.2   |
| 72.5° | 4250.0 | 351.8  | 49.5   | 41.0   | 36.7   | 29.9   | 41.8   | 51.2   | 44.4   | 30.7   | 29.0   |
| 75°   | 2749.7 | 179.4  | 34.1   | 26.4   | 19.7   | 17.9   | 30.7   | 38.4   | 30.7   | 18.8   | 16.2   |
| 77.5° | 1052.1 | 75.1   | 18.8   | 12.0   | 10.2   | 8.5    | 17.1   | 23.1   | 12.8   | 4.3    | 3.4    |
| 80°   | 202.3  | 31.6   | 9.4    | 5.9    | 5.1    | 3.4    | 2.6    | 1.7    | 0.0    | 0.0    | 0.0    |
| 82.5° | 35.1   | 10.2   | 3.4    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.0   | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.3    | 0.0    | 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)