

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: P970465

Luminaire Tested: **NAV-SB6B-760-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-760-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38014.2 lumens  
Efficiency: N/A  
Efficacy: 172.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 220.4  
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



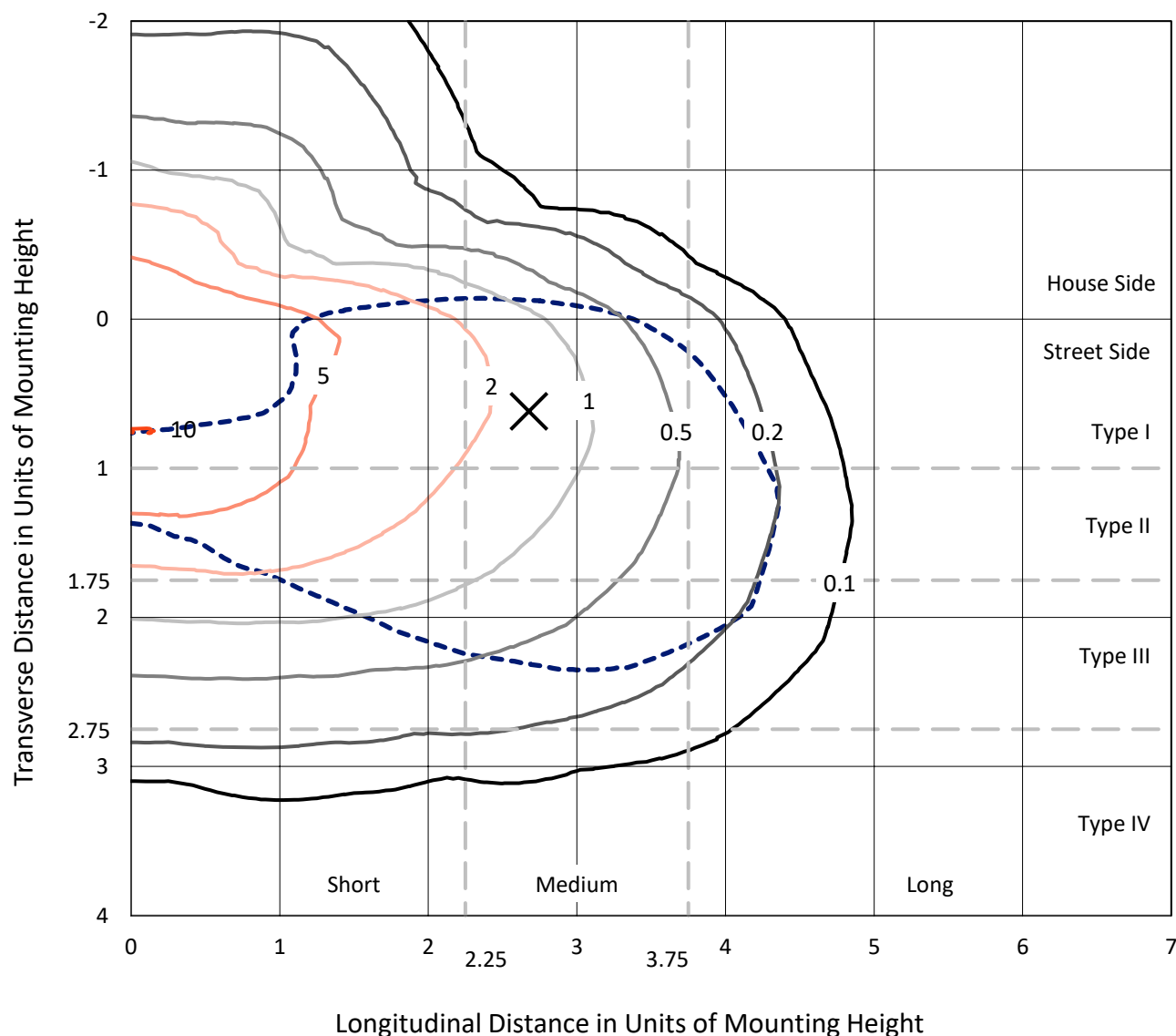
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

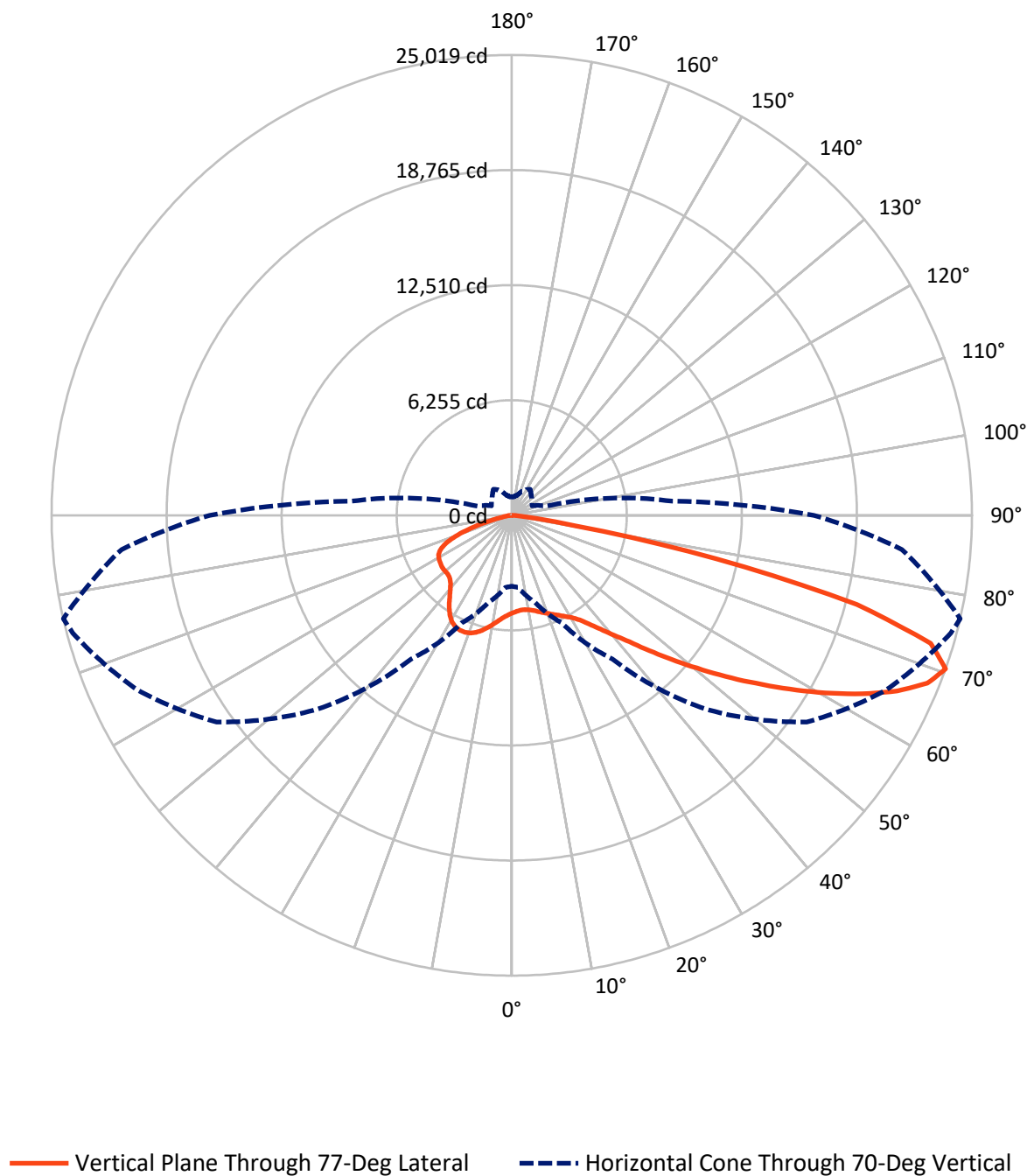
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
Type III - 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    | 8324.5   | 0.0    | 8324.5  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 29689.7  | 0.0    | 29689.7 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 38014.2  | 0.0    | 38014.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 505.8   | 1.3       |
| 10°-20°   | 1459.8  | 3.8       |
| 20°-30°   | 2496.4  | 6.6       |
| 30°-40°   | 4014.5  | 10.6      |
| 40°-50°   | 6267.7  | 16.5      |
| 50°-60°   | 8372.1  | 22.0      |
| 60°-70°   | 8923.4  | 23.5      |
| 70°-80°   | 5493.2  | 14.5      |
| 80°-90°   | 481.4   | 1.3       |
| 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°    | 38014.2 | 100.0     |
| 0°-180°   | 38014.2 | 100.0     |

**Coefficient of Utilization**



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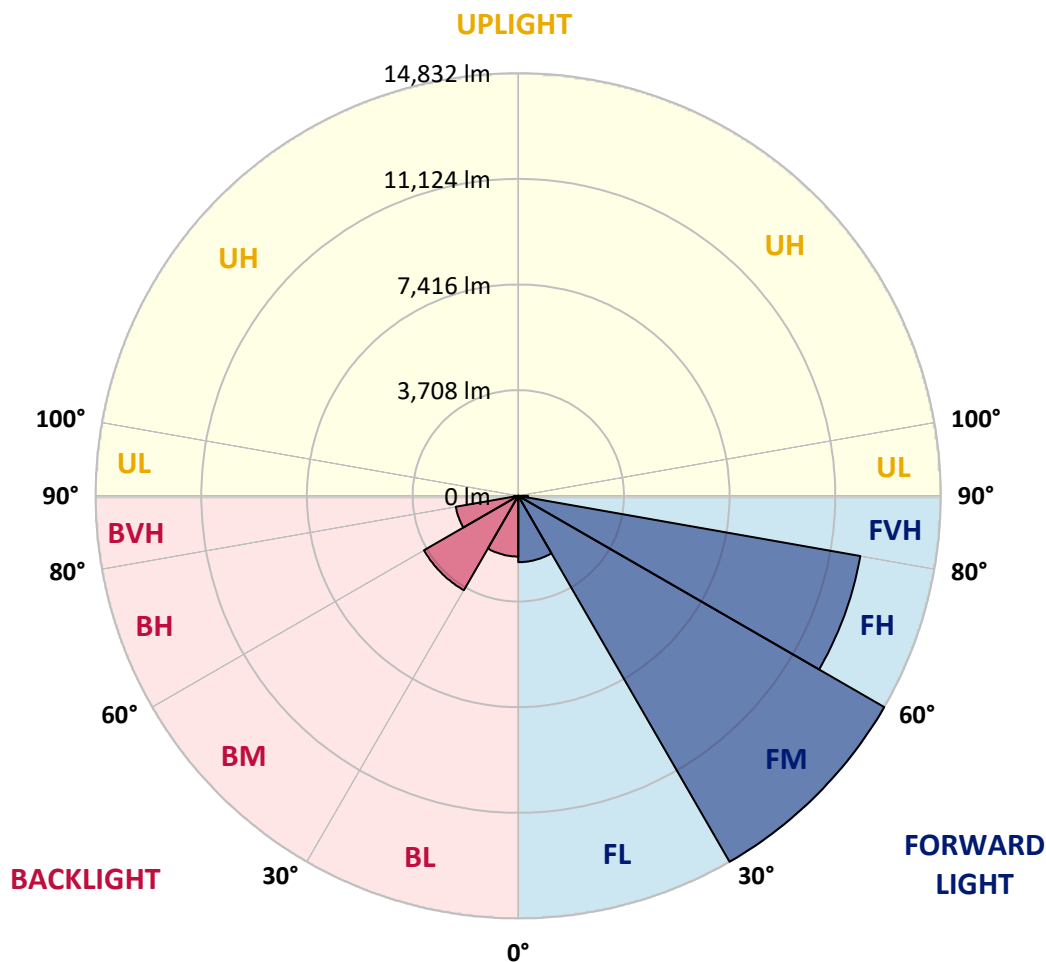
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2329.0  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 14832.3 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 12191.8 | 32.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 336.6   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2133.0  | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3822.0  | 10.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2224.8  | 5.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 144.8   | 0.4       |                         |      | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  | 5303.3  |
| 2.5°  | 4888.6  | 4886.7  | 4912.0  | 4919.8  | 4966.5  | 4999.6  | 5061.9  | 5128.1  | 5213.8  | 5223.5  | 5276.1  |
| 5°    | 4606.3  | 4606.3  | 4635.6  | 4666.7  | 4727.1  | 4793.2  | 4888.6  | 5003.5  | 5151.4  | 5174.8  | 5305.3  |
| 7.5°  | 4366.9  | 4382.5  | 4407.7  | 4468.1  | 4538.2  | 4633.6  | 4779.6  | 4943.2  | 5137.8  | 5174.8  | 5385.0  |
| 10°   | 4174.1  | 4191.6  | 4222.8  | 4271.5  | 4376.6  | 4509.0  | 4699.8  | 4910.1  | 5170.9  | 5229.3  | 5501.9  |
| 12.5° | 4113.7  | 4131.3  | 4148.8  | 4185.8  | 4283.2  | 4438.9  | 4666.7  | 4925.6  | 5250.8  | 5309.2  | 5661.6  |
| 15°   | 4254.0  | 4275.4  | 4261.7  | 4252.0  | 4302.6  | 4444.7  | 4682.3  | 4982.1  | 5350.1  | 5433.7  | 5858.2  |
| 17.5° | 4577.1  | 4584.9  | 4553.8  | 4462.2  | 4454.4  | 4530.4  | 4756.2  | 5059.9  | 5474.6  | 5566.2  | 6056.7  |
| 20°   | 5098.9  | 5085.2  | 5021.1  | 4839.9  | 4736.7  | 4721.3  | 4882.8  | 5176.8  | 5603.2  | 5700.5  | 6271.0  |
| 22.5° | 5807.5  | 5792.0  | 5663.5  | 5377.4  | 5147.5  | 4995.7  | 5065.8  | 5328.7  | 5747.2  | 5856.2  | 6479.2  |
| 25°   | 6691.4  | 6670.1  | 6481.2  | 6091.8  | 5735.5  | 5359.8  | 5315.0  | 5529.2  | 5924.4  | 6025.7  | 6697.2  |
| 27.5° | 7723.3  | 7705.7  | 7501.4  | 6987.4  | 6473.4  | 5858.2  | 5624.6  | 5764.7  | 6109.3  | 6224.2  | 6942.6  |
| 30°   | 8833.0  | 8883.7  | 8521.5  | 7968.7  | 7318.4  | 6508.4  | 6041.1  | 6054.8  | 6348.8  | 6452.0  | 7240.5  |
| 32.5° | 10137.5 | 10225.1 | 9789.0  | 9088.1  | 8200.3  | 7215.2  | 6566.9  | 6459.8  | 6697.2  | 6782.9  | 7616.3  |
| 35°   | 11430.2 | 11529.5 | 11167.4 | 10392.5 | 9370.3  | 8048.4  | 7115.9  | 6925.1  | 7160.6  | 7254.1  | 8114.6  |
| 37.5° | 12547.7 | 12680.1 | 12493.2 | 11819.6 | 10622.2 | 9053.0  | 7832.3  | 7472.1  | 7731.1  | 7847.9  | 8784.4  |
| 40°   | 13429.7 | 13632.1 | 13618.5 | 13198.0 | 12098.0 | 10271.8 | 8741.5  | 8147.7  | 8439.7  | 8566.3  | 9596.3  |
| 42.5° | 14146.1 | 14321.3 | 14473.2 | 14451.8 | 13637.9 | 11656.0 | 9810.4  | 9025.7  | 9247.8  | 9393.7  | 10509.3 |
| 45°   | 14640.6 | 14827.5 | 15154.6 | 15506.9 | 15119.6 | 13137.6 | 11034.9 | 10067.3 | 10269.9 | 10489.8 | 11597.6 |
| 47.5° | 15082.6 | 15294.7 | 15719.2 | 16277.9 | 16377.2 | 14625.0 | 12376.4 | 11280.2 | 11465.2 | 11693.0 | 12689.8 |
| 50°   | 15121.5 | 15304.5 | 15962.5 | 16755.0 | 17270.8 | 16054.1 | 13817.1 | 12641.1 | 12814.4 | 13057.8 | 13859.9 |
| 52.5° | 14181.2 | 14469.3 | 15617.9 | 16741.3 | 17681.7 | 17249.4 | 15248.0 | 14056.5 | 14251.2 | 14543.2 | 15070.9 |
| 55°   | 11007.7 | 11430.2 | 14607.5 | 16219.5 | 17535.6 | 18022.4 | 16608.9 | 15561.4 | 15810.7 | 16116.4 | 16289.6 |
| 57.5° | 9481.4  | 9666.3  | 11595.6 | 15269.4 | 16869.8 | 18222.9 | 17757.6 | 17082.0 | 17483.0 | 17817.9 | 17578.4 |
| 60°   | 8521.5  | 8675.3  | 9816.2  | 13791.8 | 15993.7 | 17905.5 | 18645.4 | 18499.3 | 19192.4 | 19591.5 | 18896.5 |
| 62.5° | 7493.6  | 7639.6  | 8677.2  | 11515.9 | 14872.2 | 17378.0 | 19206.0 | 19807.6 | 20944.6 | 21380.7 | 20138.6 |
| 65°   | 6473.4  | 6598.0  | 7592.9  | 9676.0  | 13447.2 | 16850.3 | 19496.1 | 20938.8 | 22566.4 | 23018.0 | 21170.5 |
| 67.5° | 5336.5  | 5439.6  | 6379.9  | 8163.3  | 11714.4 | 16128.1 | 19640.2 | 21828.5 | 23977.9 | 24365.3 | 21680.6 |
| 70°   | 3850.9  | 3930.8  | 4902.3  | 6455.9  | 9539.8  | 14885.9 | 19581.8 | 22459.3 | 24709.9 | 25019.4 | 21295.1 |
| 72.5° | 1820.3  | 1892.4  | 3033.3  | 4191.6  | 6738.1  | 12467.9 | 18400.1 | 21959.0 | 23966.2 | 23812.4 | 18935.4 |
| 75°   | 971.5   | 1033.8  | 1742.5  | 2299.3  | 3558.9  | 8546.9  | 15057.2 | 18916.0 | 20125.0 | 19377.4 | 13994.2 |
| 77.5° | 658.0   | 706.7   | 1078.6  | 1380.4  | 1625.6  | 4057.4  | 9677.9  | 13096.7 | 12600.2 | 11365.9 | 7008.8  |
| 80°   | 521.7   | 572.4   | 883.9   | 934.5   | 786.6   | 1466.1  | 3998.9  | 6062.6  | 4355.2  | 3483.0  | 1993.6  |
| 82.5° | 401.1   | 457.6   | 743.7   | 677.5   | 428.3   | 601.6   | 1164.2  | 1917.7  | 1115.6  | 848.8   | 482.9   |
| 85°   | 245.3   | 305.7   | 584.0   | 432.2   | 241.4   | 274.5   | 395.2   | 533.4   | 340.7   | 284.2   | 173.2   |
| 87.5° | 124.6   | 175.2   | 295.9   | 157.7   | 109.1   | 64.3    | 105.2   | 105.2   | 89.6    | 77.9    | 44.8    |
| 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°    | 5303.3  | 5303.3  | 5303.3 | 5303.3 | 5303.3 | 5303.3 | 5303.3 | 5303.3 | 5303.3 | 5303.3 | 5303.3 |
| 2.5°  | 5322.8  | 5361.8  | 5427.9 | 5490.2 | 5538.9 | 5585.6 | 5632.4 | 5657.7 | 5665.5 | 5696.6 | 5714.1 |
| 5°    | 5385.0  | 5457.1  | 5585.6 | 5706.4 | 5782.2 | 5829.0 | 5862.1 | 5881.6 | 5885.4 | 5895.2 | 5910.8 |
| 7.5°  | 5499.9  | 5614.8  | 5793.9 | 5914.7 | 5971.1 | 5967.2 | 5953.6 | 5904.9 | 5885.4 | 5867.9 | 5871.8 |
| 10°   | 5661.6  | 5813.4  | 6033.5 | 6117.1 | 6082.0 | 5988.7 | 5867.9 | 5725.8 | 5659.6 | 5595.4 | 5575.9 |
| 12.5° | 5862.1  | 6054.8  | 6271.0 | 6267.1 | 6093.7 | 5854.3 | 5574.0 | 5355.9 | 5217.7 | 5118.3 | 5095.0 |
| 15°   | 6105.4  | 6327.4  | 6492.9 | 6360.5 | 5980.9 | 5550.6 | 5139.8 | 4855.5 | 4731.0 | 4621.9 | 4610.2 |
| 17.5° | 6356.6  | 6594.1  | 6670.1 | 6331.3 | 5696.6 | 5100.8 | 4635.6 | 4411.6 | 4289.0 | 4230.6 | 4248.1 |
| 20°   | 6601.9  | 6837.5  | 6775.1 | 6163.8 | 5264.4 | 4590.8 | 4176.1 | 4053.5 | 4028.1 | 4041.8 | 4035.9 |
| 22.5° | 6860.8  | 7071.1  | 6796.6 | 5840.7 | 4713.5 | 4069.0 | 3841.2 | 3845.1 | 3901.6 | 3942.5 | 3952.2 |
| 25°   | 7125.6  | 7267.8  | 6740.1 | 5373.5 | 4121.5 | 3685.5 | 3629.0 | 3691.3 | 3802.2 | 3882.1 | 3903.5 |
| 27.5° | 7380.6  | 7442.9  | 6617.5 | 4795.2 | 3613.4 | 3411.0 | 3420.7 | 3549.2 | 3716.6 | 3827.6 | 3854.8 |
| 30°   | 7668.7  | 7598.7  | 6381.9 | 4144.9 | 3261.0 | 3175.3 | 3257.1 | 3407.1 | 3574.5 | 3673.8 | 3697.2 |
| 32.5° | 7994.0  | 7733.0  | 6008.1 | 3543.3 | 3011.9 | 2986.5 | 3120.8 | 3218.2 | 3292.2 | 3321.4 | 3337.0 |
| 35°   | 8398.8  | 7921.9  | 5529.2 | 3120.8 | 2787.9 | 2848.3 | 2976.8 | 2928.1 | 2898.9 | 2883.3 | 2898.9 |
| 37.5° | 8924.6  | 8176.9  | 4968.5 | 2846.3 | 2606.9 | 2749.0 | 2801.5 | 2649.7 | 2534.8 | 2478.3 | 2492.0 |
| 40°   | 9557.3  | 8550.8  | 4429.1 | 2634.1 | 2492.0 | 2663.4 | 2571.8 | 2388.9 | 2242.8 | 2163.0 | 2168.8 |
| 42.5° | 10260.1 | 8942.1  | 3975.6 | 2474.5 | 2427.8 | 2593.2 | 2402.5 | 2184.4 | 1948.8 | 1923.5 | 1948.8 |
| 45°   | 10997.9 | 9345.0  | 3666.0 | 2351.9 | 2396.7 | 2532.9 | 2305.1 | 1952.7 | 1785.3 | 1888.5 | 1943.0 |
| 47.5° | 11735.8 | 9714.9  | 3479.1 | 2260.3 | 2381.1 | 2464.7 | 2219.4 | 1824.2 | 1705.5 | 1855.4 | 1925.5 |
| 50°   | 12557.5 | 10045.9 | 3395.4 | 2194.1 | 2363.5 | 2437.6 | 2091.0 | 1791.2 | 1621.8 | 1721.1 | 1795.0 |
| 52.5° | 13373.2 | 10302.9 | 3333.1 | 2127.9 | 2338.2 | 2416.1 | 2028.7 | 1752.2 | 1520.5 | 1526.3 | 1567.2 |
| 55°   | 14187.0 | 10470.4 | 3264.9 | 2040.4 | 2281.8 | 2369.4 | 2022.8 | 1709.4 | 1444.6 | 1417.4 | 1436.8 |
| 57.5° | 15055.3 | 10565.8 | 3181.2 | 1943.0 | 2184.4 | 2250.6 | 2017.0 | 1676.3 | 1421.3 | 1376.5 | 1382.3 |
| 60°   | 15939.2 | 10705.9 | 3072.2 | 1824.2 | 2054.0 | 2108.5 | 2003.4 | 1664.6 | 1407.6 | 1331.7 | 1337.5 |
| 62.5° | 16731.6 | 10754.6 | 2941.7 | 1711.3 | 1886.5 | 1968.3 | 1974.2 | 1654.9 | 1370.6 | 1240.1 | 1240.1 |
| 65°   | 17251.4 | 10544.4 | 2714.0 | 1582.8 | 1705.5 | 1824.2 | 1917.7 | 1621.8 | 1304.4 | 1173.9 | 1173.9 |
| 67.5° | 17229.9 | 9944.8  | 2357.7 | 1417.4 | 1530.2 | 1664.6 | 1835.9 | 1565.3 | 1224.6 | 1092.2 | 1098.1 |
| 70°   | 16427.9 | 8761.0  | 1906.0 | 1224.6 | 1337.5 | 1493.2 | 1730.8 | 1481.5 | 1129.2 | 1002.7 | 1014.3 |
| 72.5° | 14089.6 | 6856.9  | 1384.3 | 998.8  | 1113.7 | 1316.1 | 1594.5 | 1380.4 | 1031.9 | 922.8  | 917.0  |
| 75°   | 10065.4 | 4339.6  | 938.4  | 767.1  | 866.3  | 1115.6 | 1425.2 | 1261.6 | 942.3  | 926.7  | 874.1  |
| 77.5° | 5141.7  | 2073.5  | 621.0  | 560.7  | 603.5  | 880.0  | 1197.3 | 1127.3 | 955.9  | 765.2  | 681.4  |
| 80°   | 1672.4  | 765.2   | 391.3  | 381.6  | 401.1  | 586.0  | 926.7  | 924.8  | 724.3  | 519.8  | 459.5  |
| 82.5° | 533.4   | 329.0   | 255.0  | 245.3  | 235.5  | 368.0  | 646.4  | 732.1  | 488.7  | 329.0  | 327.1  |
| 85°   | 212.2   | 196.6   | 150.0  | 138.3  | 99.3   | 173.2  | 338.8  | 486.8  | 364.1  | 237.5  | 243.3  |
| 87.5° | 77.9    | 77.9    | 40.9   | 29.2   | 21.4   | 58.4   | 91.5   | 146.1  | 208.3  | 122.7  | 120.7  |
| 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)