

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: P884976

Luminaire Tested: **NAV-SB6A-750-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-750-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

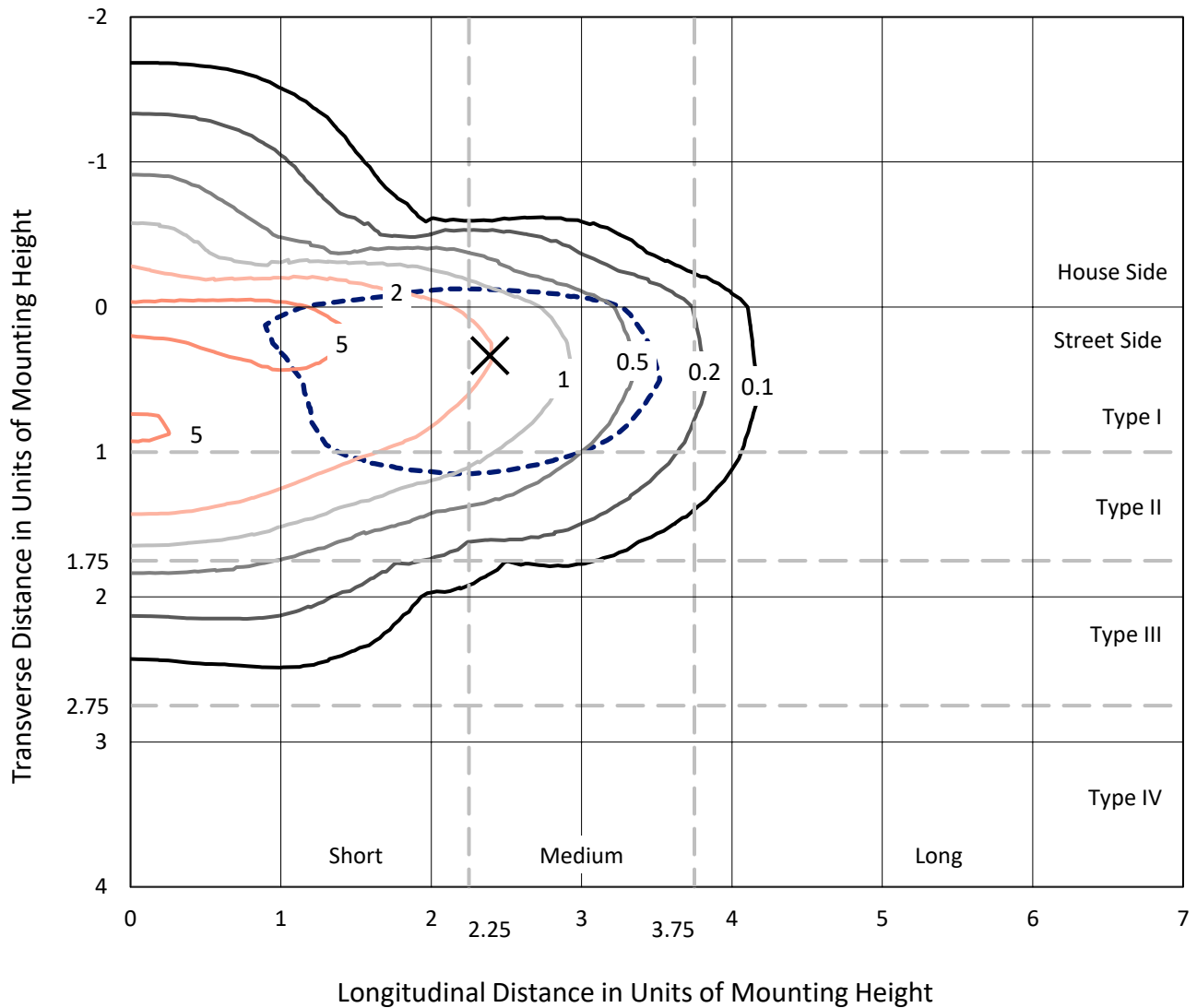
Lumens per Lamp: N/A  
Luminaire Lumens: 21435 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

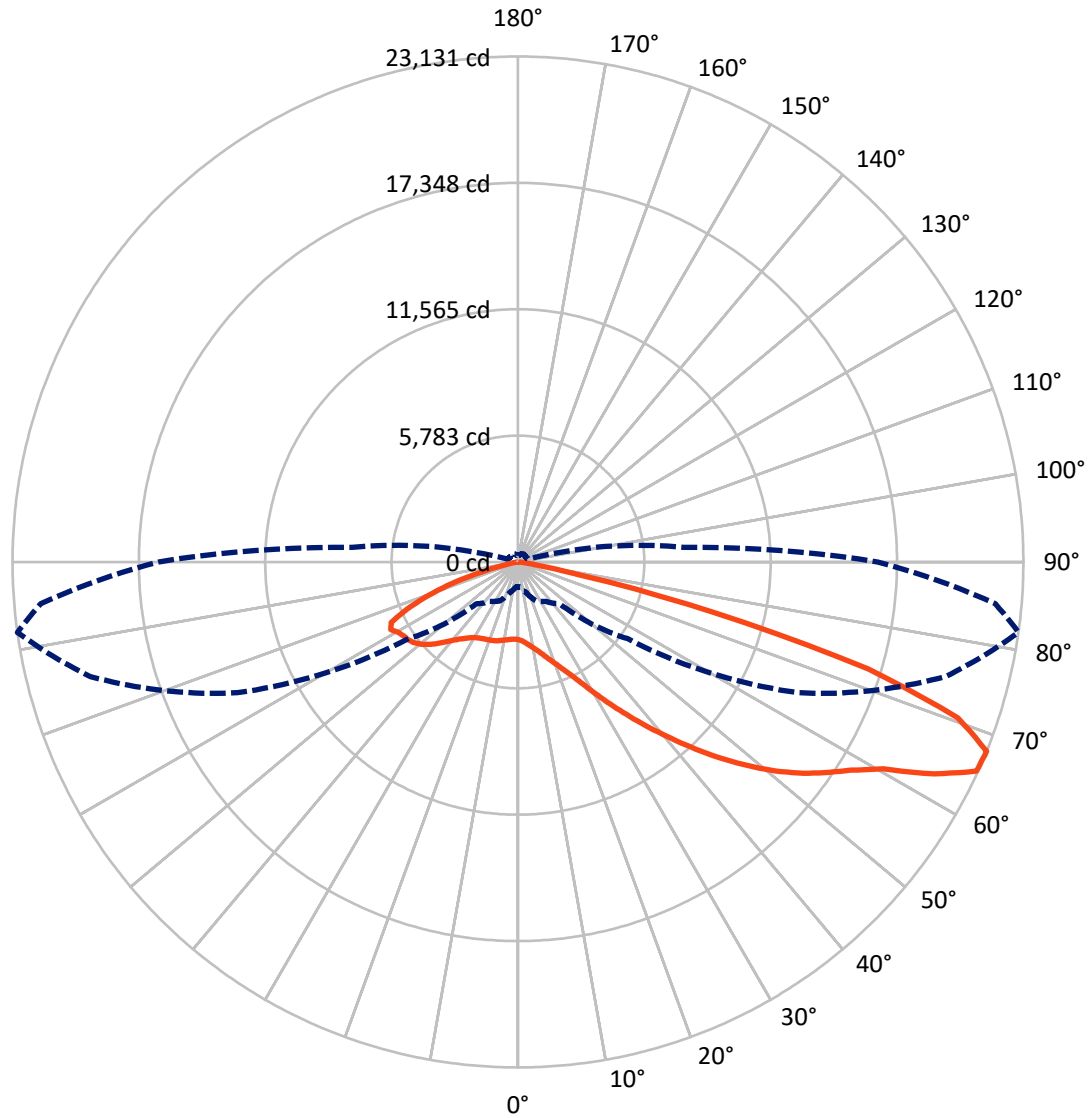
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3882.8   | 0.0    | 3882.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 17552.2  | 0.0    | 17552.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 21435.0  | 0.0    | 21435.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 316.4   | 1.5       |
| 10°-20°   | 822.1   | 3.8       |
| 20°-30°   | 1316.8  | 6.1       |
| 30°-40°   | 2328.5  | 10.9      |
| 40°-50°   | 4079.7  | 19.0      |
| 50°-60°   | 5441.2  | 25.4      |
| 60°-70°   | 5065.5  | 23.6      |
| 70°-80°   | 1944.1  | 9.1       |
| 80°-90°   | 120.8   | 0.6       |
| 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°    | 21435.0 | 100.0     |
| 0°-180°   | 21435.0 | 100.0     |

**Coefficient of Utilization**



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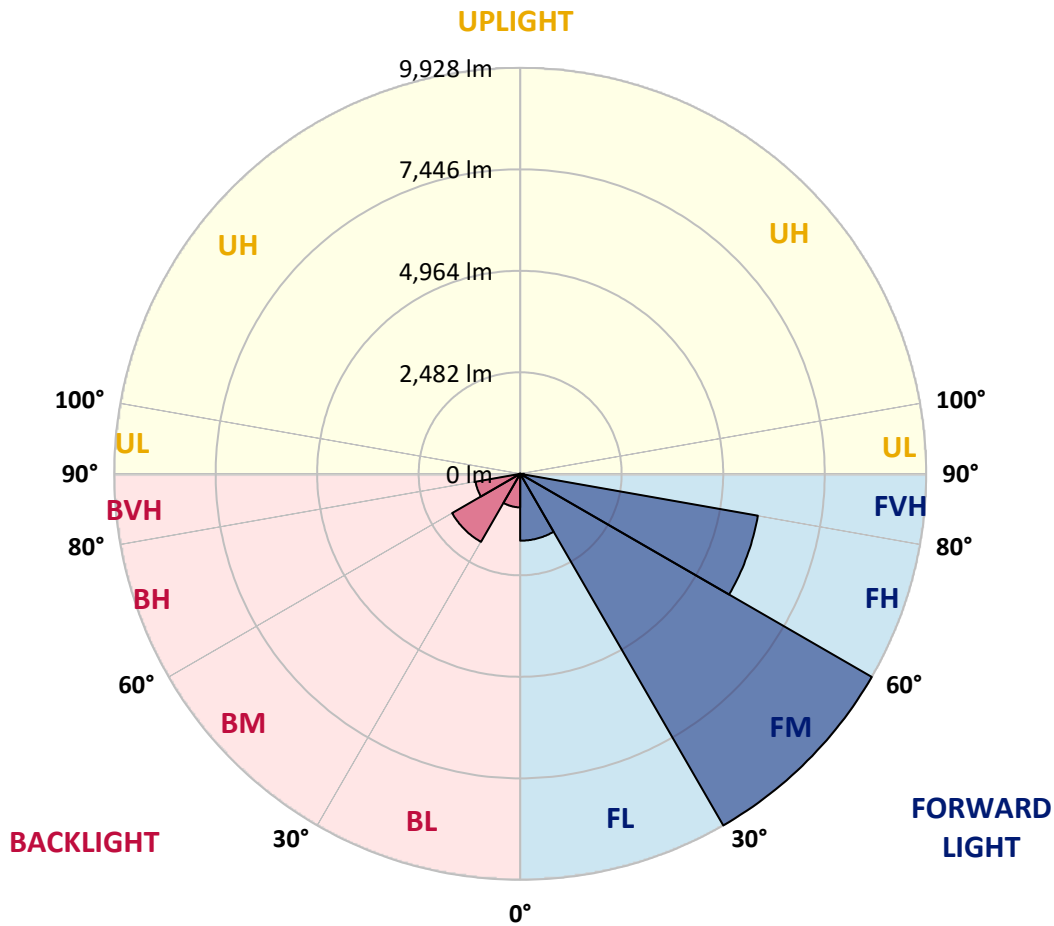
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1635.3 | 7.6       |                         |      |         |
| FM (30°-60°)   | 9927.8 | 46.3      |                         |      |         |
| FH (60°-80°)   | 5901.4 | 27.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 87.8   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 820.0  | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1921.6 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1108.2 | 5.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 33.0   | 0.2       |                         |      | G1/100  |
| 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°     | 82°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1  | 3551.1  | 3551.1  | 3551.1  | 3551.1  |
| 2.5°  | 3753.2 | 3774.8 | 3762.5 | 3756.3 | 3745.5 | 3730.1 | 3717.7  | 3679.1  | 3639.0  | 3612.8  | 3603.5  |
| 5°    | 3828.8 | 3850.4 | 3848.9 | 3855.1 | 3862.8 | 3867.4 | 3864.3  | 3821.1  | 3764.0  | 3719.3  | 3693.0  |
| 7.5°  | 3764.0 | 3788.7 | 3808.8 | 3839.6 | 3893.7 | 3950.8 | 3978.5  | 3969.3  | 3910.6  | 3848.9  | 3816.5  |
| 10°   | 3580.4 | 3606.6 | 3654.5 | 3727.0 | 3841.2 | 3964.6 | 4068.0  | 4115.9  | 4078.9  | 4010.9  | 3966.2  |
| 12.5° | 3243.9 | 3270.2 | 3364.3 | 3521.7 | 3713.1 | 3927.6 | 4125.1  | 4253.2  | 4262.5  | 4194.6  | 4142.1  |
| 15°   | 2865.8 | 2892.1 | 2992.4 | 3189.9 | 3481.6 | 3825.8 | 4156.0  | 4398.3  | 4480.1  | 4421.5  | 4358.2  |
| 17.5° | 2631.3 | 2654.4 | 2730.0 | 2889.0 | 3193.0 | 3622.0 | 4145.2  | 4552.6  | 4739.4  | 4693.1  | 4617.5  |
| 20°   | 2560.3 | 2580.3 | 2615.8 | 2727.0 | 2980.0 | 3410.6 | 4074.2  | 4697.7  | 5018.7  | 4992.5  | 4907.6  |
| 22.5° | 2635.9 | 2654.4 | 2665.2 | 2714.6 | 2873.6 | 3271.7 | 3984.7  | 4845.9  | 5342.8  | 5345.9  | 5242.5  |
| 25°   | 2810.3 | 2828.8 | 2816.5 | 2847.3 | 2916.8 | 3228.5 | 3950.8  | 5020.2  | 5750.2  | 5784.2  | 5666.9  |
| 27.5° | 3097.3 | 3098.9 | 3069.6 | 3068.0 | 3078.8 | 3293.3 | 3986.3  | 5207.0  | 6264.1  | 6327.4  | 6182.3  |
| 30°   | 3673.0 | 3649.8 | 3537.2 | 3415.2 | 3359.7 | 3487.8 | 4085.0  | 5427.7  | 6870.6  | 6983.3  | 6801.2  |
| 32.5° | 4560.3 | 4526.4 | 4319.6 | 4027.9 | 3734.7 | 3801.1 | 4262.5  | 5679.2  | 7531.1  | 7734.8  | 7512.6  |
| 35°   | 5523.3 | 5514.1 | 5298.0 | 4864.4 | 4352.0 | 4247.1 | 4551.1  | 6009.5  | 8251.8  | 8575.9  | 8312.0  |
| 37.5° | 6418.4 | 6413.8 | 6290.4 | 5779.5 | 5156.1 | 4869.0 | 5014.1  | 6441.6  | 9023.5  | 9492.6  | 9180.9  |
| 40°   | 7236.4 | 7250.3 | 7126.8 | 6670.0 | 6041.9 | 5666.9 | 5643.7  | 6975.6  | 9881.5  | 10491.1 | 10120.7 |
| 42.5° | 7943.2 | 7958.6 | 7833.6 | 7495.6 | 6916.9 | 6549.6 | 6416.9  | 7629.9  | 10719.5 | 11563.7 | 11125.4 |
| 45°   | 8423.1 | 8518.8 | 8500.3 | 8230.2 | 7815.1 | 7433.9 | 7345.9  | 8450.9  | 11674.8 | 12701.1 | 12187.2 |
| 47.5° | 8559.0 | 8646.9 | 8785.8 | 8822.8 | 8569.8 | 8194.7 | 8299.7  | 9440.2  | 12640.9 | 13840.0 | 13255.1 |
| 50°   | 8224.1 | 8305.9 | 8594.4 | 8978.7 | 9154.7 | 9038.9 | 9227.2  | 10500.4 | 13630.1 | 14975.8 | 14303.0 |
| 52.5° | 7563.5 | 7646.9 | 8011.1 | 8619.1 | 9336.8 | 9701.0 | 10157.8 | 11545.2 | 14588.5 | 16051.5 | 15295.3 |
| 55°   | 6608.3 | 6696.2 | 7163.8 | 7852.1 | 8989.5 | 9974.1 | 10934.0 | 12588.4 | 15466.6 | 17019.1 | 16190.4 |
| 57.5° | 5308.8 | 5373.7 | 5859.8 | 6822.8 | 8116.0 | 9702.5 | 11506.6 | 13727.3 | 16293.8 | 17969.8 | 17077.8 |
| 60°   | 3460.0 | 3517.1 | 4081.9 | 5156.1 | 6668.5 | 8795.1 | 11620.8 | 14997.5 | 17392.6 | 19205.9 | 18273.8 |
| 62.5° | 2301.0 | 2339.6 | 2674.5 | 3463.1 | 4696.2 | 7052.7 | 10952.6 | 16011.4 | 19003.8 | 21357.3 | 20324.8 |
| 65°   | 1578.8 | 1617.3 | 1952.2 | 2501.6 | 3034.1 | 4665.3 | 9031.2  | 15877.1 | 20463.7 | 23065.6 | 21844.9 |
| 67.5° | 1126.6 | 1159.0 | 1443.0 | 1961.5 | 2196.1 | 2710.0 | 6122.1  | 14161.0 | 20253.8 | 23130.5 | 21926.7 |
| 70°   | 807.1  | 825.6  | 1060.2 | 1527.8 | 1745.4 | 1628.1 | 3404.4  | 10830.6 | 17733.7 | 21358.8 | 20256.9 |
| 72.5° | 564.8  | 571.0  | 736.1  | 1163.6 | 1405.9 | 1188.3 | 1620.4  | 7220.9  | 13412.5 | 16764.5 | 15704.3 |
| 75°   | 382.7  | 390.4  | 495.4  | 853.4  | 1128.1 | 907.4  | 858.1   | 3872.1  | 7873.7  | 9279.7  | 8318.2  |
| 77.5° | 234.6  | 237.7  | 319.5  | 583.4  | 844.2  | 691.4  | 552.5   | 1640.5  | 3046.4  | 2990.8  | 2549.5  |
| 80°   | 132.7  | 132.7  | 203.7  | 362.7  | 575.6  | 446.0  | 387.4   | 697.6   | 964.5   | 847.3   | 746.9   |
| 82.5° | 74.1   | 75.6   | 148.2  | 225.3  | 381.2  | 263.9  | 213.0   | 322.5   | 416.7   | 368.8   | 321.0   |
| 85°   | 30.9   | 34.0   | 91.1   | 106.5  | 182.1  | 131.2  | 86.4    | 135.8   | 154.3   | 137.4   | 100.3   |
| 87.5° | 3.1    | 4.6    | 27.8   | 20.1   | 21.6   | 26.2   | 12.3    | 26.2    | 21.6    | 21.6    | 15.4    |
| 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°    | 3551.1  | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 |
| 2.5°  | 3574.2  | 3551.1 | 3492.4 | 3424.5 | 3335.0 | 3291.8 | 3233.1 | 3193.0 | 3159.1 | 3162.2 | 3131.3 |
| 5°    | 3643.7  | 3585.0 | 3453.8 | 3290.2 | 3086.5 | 2941.5 | 2787.1 | 2680.7 | 2594.2 | 2575.7 | 2534.0 |
| 7.5°  | 3739.3  | 3646.7 | 3416.8 | 3122.0 | 2777.9 | 2517.1 | 2284.0 | 2134.3 | 2027.9 | 1993.9 | 1959.9 |
| 10°   | 3862.8  | 3728.5 | 3368.9 | 2910.6 | 2415.2 | 2083.4 | 1833.4 | 1716.1 | 1643.6 | 1618.9 | 1600.4 |
| 12.5° | 4006.3  | 3822.7 | 3305.7 | 2652.9 | 2041.7 | 1722.3 | 1563.3 | 1504.7 | 1481.5 | 1473.8 | 1469.2 |
| 15°   | 4186.9  | 3940.0 | 3210.0 | 2347.3 | 1725.4 | 1501.6 | 1433.7 | 1426.0 | 1429.1 | 1426.0 | 1424.4 |
| 17.5° | 4401.4  | 4068.0 | 3054.1 | 2032.5 | 1512.4 | 1388.9 | 1364.2 | 1370.4 | 1378.1 | 1376.6 | 1373.5 |
| 20°   | 4636.0  | 4194.6 | 2855.0 | 1753.1 | 1367.3 | 1308.7 | 1294.8 | 1301.0 | 1307.1 | 1304.1 | 1302.5 |
| 22.5° | 4903.0  | 4330.4 | 2634.4 | 1535.5 | 1270.1 | 1234.6 | 1219.2 | 1220.7 | 1220.7 | 1214.6 | 1211.5 |
| 25°   | 5222.4  | 4480.1 | 2402.9 | 1381.2 | 1196.0 | 1168.3 | 1149.7 | 1143.6 | 1134.3 | 1115.8 | 1112.7 |
| 27.5° | 5603.6  | 4639.1 | 2180.6 | 1273.2 | 1137.4 | 1111.2 | 1089.5 | 1074.1 | 1051.0 | 1020.1 | 1017.0 |
| 30°   | 6032.6  | 4832.0 | 1992.4 | 1205.3 | 1091.1 | 1064.9 | 1040.2 | 1017.0 | 983.1  | 944.5  | 941.4  |
| 32.5° | 6537.3  | 5038.8 | 1855.0 | 1160.5 | 1049.4 | 1021.6 | 992.3  | 964.5  | 927.5  | 888.9  | 890.5  |
| 35°   | 7139.1  | 5288.8 | 1774.8 | 1129.7 | 1017.0 | 980.0  | 947.6  | 916.7  | 888.9  | 855.0  | 851.9  |
| 37.5° | 7791.9  | 5554.2 | 1750.1 | 1114.2 | 995.4  | 938.3  | 901.3  | 879.7  | 876.6  | 856.5  | 855.0  |
| 40°   | 8506.5  | 5869.0 | 1768.6 | 1105.0 | 972.3  | 898.2  | 858.1  | 853.4  | 861.1  | 825.6  | 827.2  |
| 42.5° | 9262.7  | 6242.5 | 1799.4 | 1094.2 | 939.8  | 858.1  | 819.5  | 819.5  | 813.3  | 763.9  | 763.9  |
| 45°   | 10080.6 | 6673.1 | 1830.3 | 1067.9 | 901.3  | 817.9  | 788.6  | 777.8  | 751.6  | 703.7  | 702.2  |
| 47.5° | 10904.7 | 7111.4 | 1853.5 | 1020.1 | 855.0  | 784.0  | 757.7  | 733.1  | 694.5  | 651.3  | 649.7  |
| 50°   | 11687.2 | 7504.9 | 1828.8 | 949.1  | 802.5  | 751.6  | 723.8  | 689.8  | 648.2  | 618.8  | 614.2  |
| 52.5° | 12386.2 | 7846.0 | 1723.8 | 865.8  | 746.9  | 717.6  | 692.9  | 657.4  | 623.5  | 592.6  | 589.5  |
| 55°   | 12994.3 | 8122.2 | 1538.6 | 787.1  | 697.6  | 688.3  | 663.6  | 618.8  | 572.6  | 546.3  | 543.2  |
| 57.5° | 13577.7 | 8332.1 | 1307.1 | 722.2  | 652.8  | 655.9  | 618.8  | 578.7  | 535.5  | 507.7  | 504.6  |
| 60°   | 14353.9 | 8613.0 | 1072.6 | 662.1  | 605.0  | 614.2  | 574.1  | 544.8  | 490.8  | 455.3  | 450.6  |
| 62.5° | 15594.7 | 9049.7 | 851.9  | 588.0  | 549.4  | 552.5  | 535.5  | 500.0  | 435.2  | 393.5  | 390.4  |
| 65°   | 16579.3 | 8889.2 | 671.3  | 507.7  | 486.1  | 490.8  | 490.8  | 452.2  | 382.7  | 334.9  | 330.3  |
| 67.5° | 16468.2 | 7611.4 | 535.5  | 429.0  | 425.9  | 429.0  | 439.8  | 407.4  | 339.5  | 300.9  | 294.8  |
| 70°   | 15170.3 | 6054.2 | 429.0  | 356.5  | 370.4  | 362.7  | 393.5  | 371.9  | 305.6  | 267.0  | 262.4  |
| 72.5° | 12378.5 | 4361.3 | 327.2  | 294.8  | 284.0  | 296.3  | 355.0  | 334.9  | 254.6  | 211.4  | 206.8  |
| 75°   | 7233.3  | 2327.2 | 243.8  | 233.0  | 205.3  | 246.9  | 314.8  | 285.5  | 194.5  | 155.9  | 151.2  |
| 77.5° | 2355.0  | 811.8  | 179.0  | 171.3  | 152.8  | 199.1  | 268.5  | 240.7  | 159.0  | 123.5  | 118.8  |
| 80°   | 631.2   | 245.4  | 121.9  | 112.7  | 98.8   | 148.2  | 213.0  | 191.4  | 114.2  | 80.2   | 78.7   |
| 82.5° | 253.1   | 103.4  | 71.0   | 63.3   | 54.0   | 101.9  | 168.2  | 154.3  | 84.9   | 50.9   | 50.9   |
| 85°   | 81.8    | 34.0   | 26.2   | 20.1   | 24.7   | 63.3   | 100.3  | 104.9  | 60.2   | 26.2   | 20.1   |
| 87.5° | 10.8    | 4.6    | 4.6    | 6.2    | 4.6    | 10.8   | 30.9   | 29.3   | 17.0   | 3.1    | 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)