

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: P969891

Luminaire Tested: **NAV-SB6A-750-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P969891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-750-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28830.2 lumens  
Efficiency: N/A  
Efficacy: 168.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

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



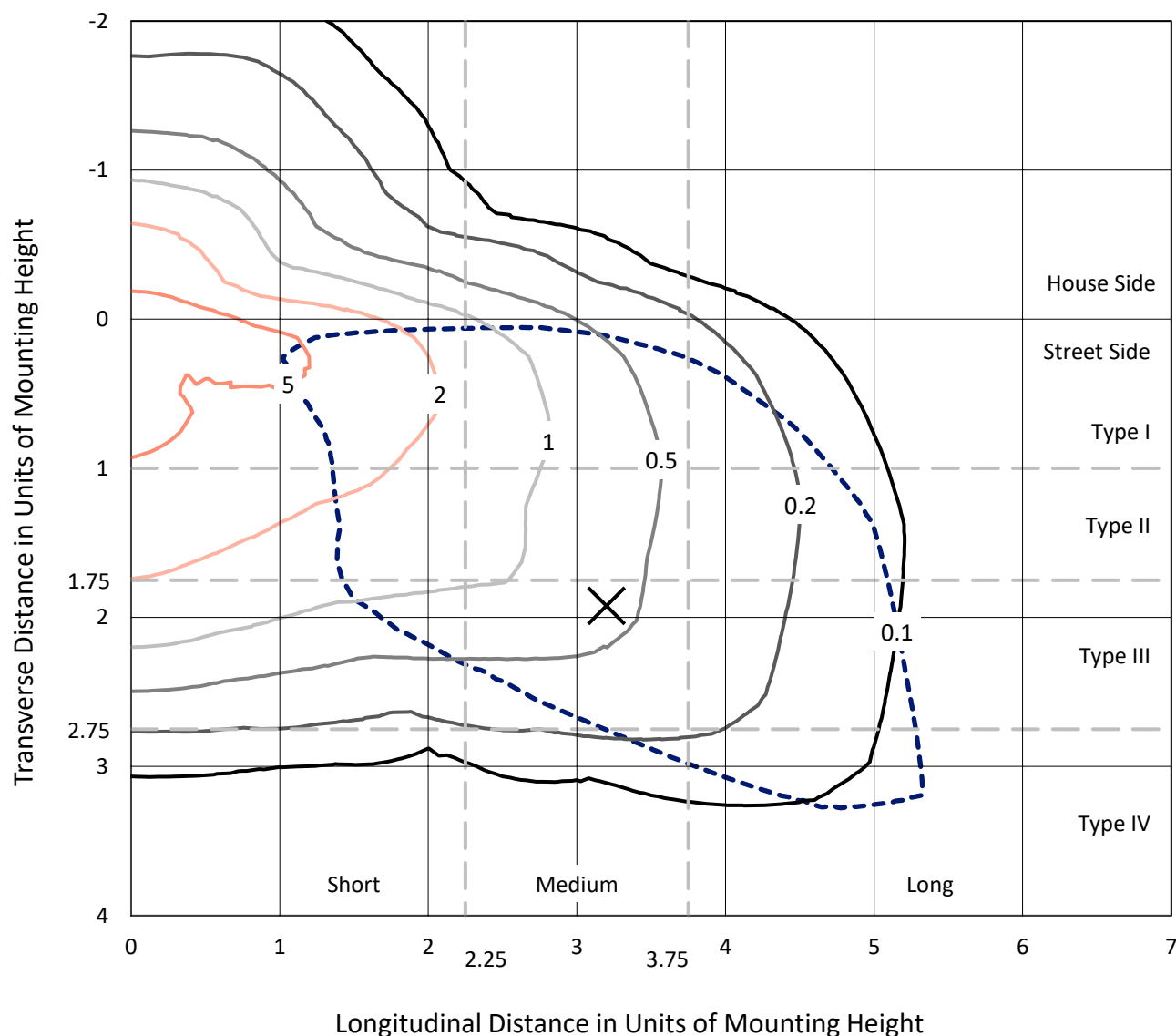
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

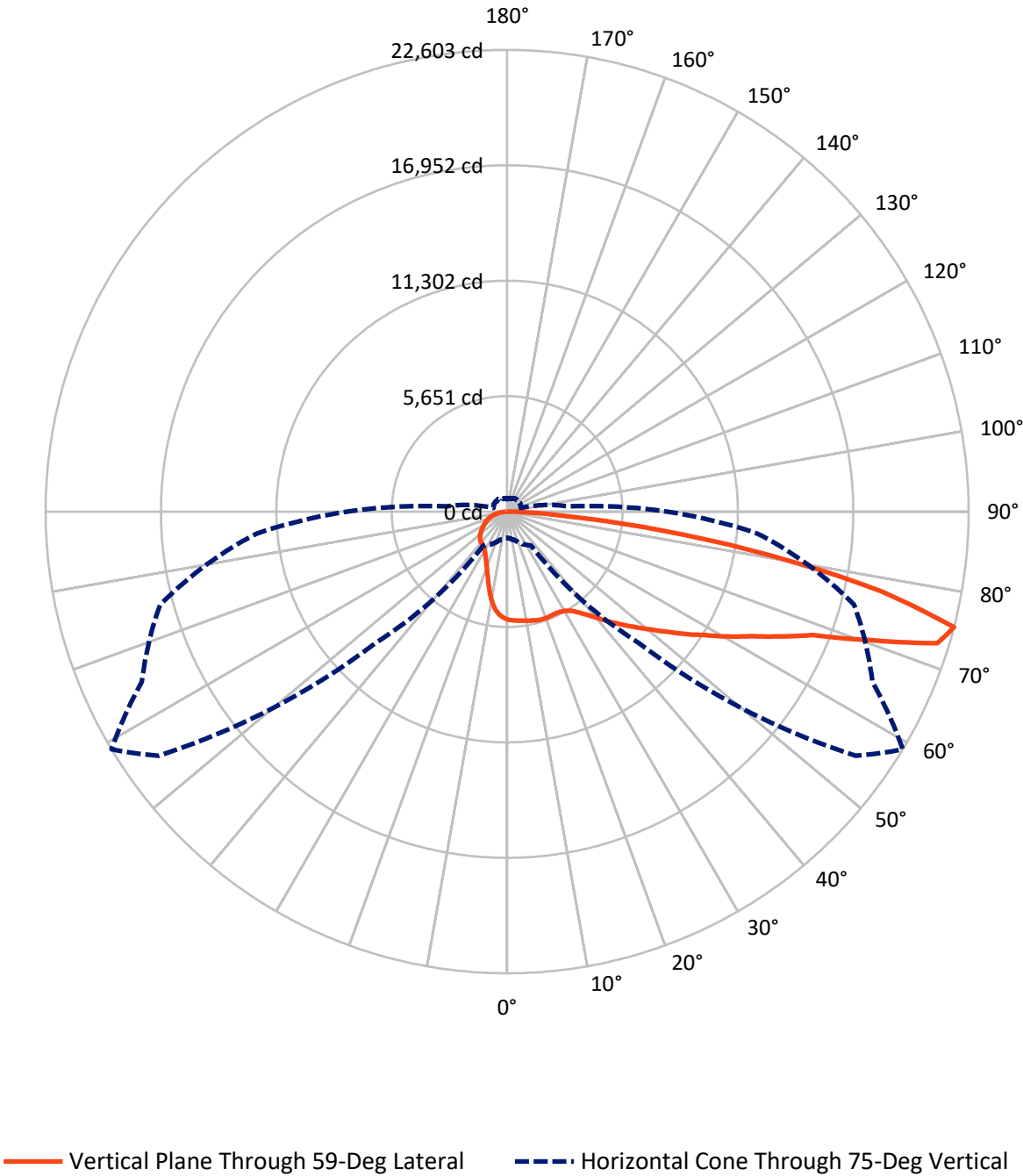
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
Type IV - 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    | 5407.3   | 0.0    | 5407.3  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 23422.9  | 0.0    | 23422.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 28830.2  | 0.0    | 28830.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 474.5   | 1.6       |
| 10°-20°   | 1212.8  | 4.2       |
| 20°-30°   | 1842.2  | 6.4       |
| 30°-40°   | 2738.3  | 9.5       |
| 40°-50°   | 4072.4  | 14.1      |
| 50°-60°   | 5527.8  | 19.2      |
| 60°-70°   | 6748.5  | 23.4      |
| 70°-80°   | 5296.2  | 18.4      |
| 80°-90°   | 917.4   | 3.2       |
| 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°    | 28830.2 | 100.0     |
| 0°-180°   | 28830.2 | 100.0     |

**Coefficient of Utilization**



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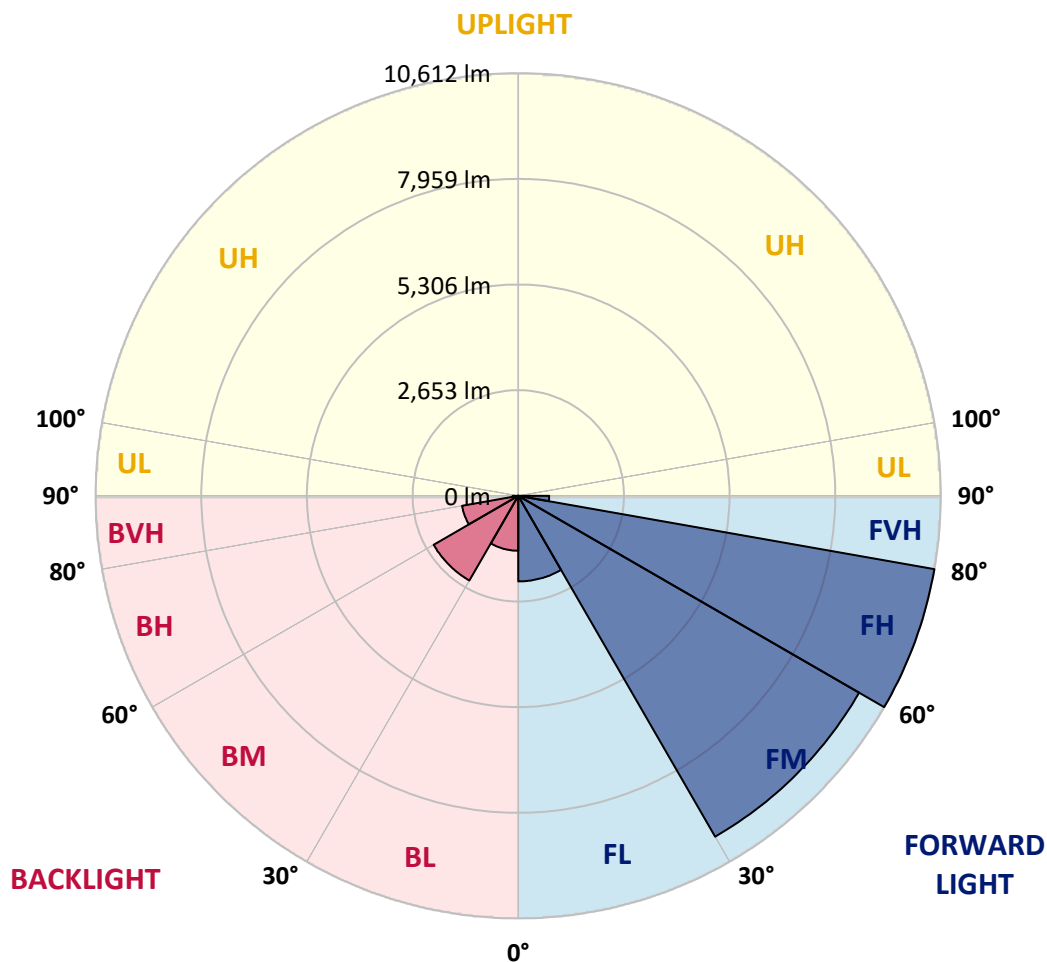
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2149.6  | 7.5       |                         |      |          |
| FM   | (30°-60°)   | 9884.2  | 34.3      |                         |      |          |
| FH   | (60°-80°)   | 10612.1 | 36.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 777.0   | 2.7       |                         |      | G5       |
| BL   | (0°-30°)    | 1379.9  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2454.4  | 8.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1432.6  | 5.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 140.4   | 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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5291.7  | 5291.7  | 5291.7 | 5291.7 | 5291.7  | 5291.7  | 5291.7  | 5291.7  | 5291.7  | 5291.7  | 5291.7  |
| 2.5°  | 5336.7  | 5318.1  | 5336.7 | 5329.0 | 5325.8  | 5319.6  | 5321.2  | 5332.0  | 5325.8  | 5333.6  | 5307.2  |
| 5°    | 5301.0  | 5290.1  | 5308.8 | 5304.2 | 5324.3  | 5327.3  | 5347.5  | 5359.9  | 5367.7  | 5369.3  | 5349.1  |
| 7.5°  | 5242.1  | 5231.2  | 5257.6 | 5279.3 | 5322.7  | 5335.1  | 5377.0  | 5397.1  | 5408.0  | 5426.7  | 5397.1  |
| 10°   | 5026.5  | 5021.9  | 5087.0 | 5169.2 | 5271.6  | 5335.1  | 5398.8  | 5432.8  | 5449.9  | 5499.5  | 5465.4  |
| 12.5° | 4645.0  | 4651.1  | 4736.5 | 4894.7 | 5099.4  | 5304.2  | 5423.6  | 5473.2  | 5499.5  | 5561.5  | 5546.1  |
| 15°   | 4280.5  | 4279.0  | 4372.0 | 4541.1 | 4828.0  | 5167.6  | 5436.0  | 5521.3  | 5566.3  | 5657.7  | 5645.3  |
| 17.5° | 4069.6  | 4063.4  | 4128.5 | 4257.2 | 4524.0  | 4958.2  | 5404.9  | 5547.6  | 5643.8  | 5758.6  | 5747.7  |
| 20°   | 4030.8  | 4018.4  | 4052.5 | 4116.1 | 4305.3  | 4728.7  | 5324.3  | 5547.6  | 5705.8  | 5854.7  | 5848.4  |
| 22.5° | 4172.0  | 4151.8  | 4137.8 | 4130.0 | 4213.9  | 4539.5  | 5232.8  | 5529.1  | 5797.3  | 5992.8  | 5981.9  |
| 25°   | 4455.8  | 4424.7  | 4353.4 | 4283.6 | 4258.8  | 4454.2  | 5152.2  | 5524.3  | 5933.8  | 6178.8  | 6138.5  |
| 27.5° | 4914.9  | 4876.0  | 4731.8 | 4564.3 | 4413.9  | 4497.6  | 5116.5  | 5552.2  | 6084.2  | 6375.8  | 6295.1  |
| 30°   | 5484.1  | 5442.1  | 5260.7 | 5003.2 | 4733.3  | 4658.9  | 5161.4  | 5634.4  | 6276.6  | 6637.9  | 6479.7  |
| 32.5° | 5994.3  | 5947.8  | 5792.7 | 5530.6 | 5166.1  | 4938.1  | 5304.2  | 5791.1  | 6579.0  | 7002.4  | 6757.3  |
| 35°   | 6447.1  | 6392.8  | 6253.3 | 6011.3 | 5696.5  | 5330.5  | 5561.5  | 6068.7  | 7008.5  | 7594.8  | 7134.2  |
| 37.5° | 6890.7  | 6827.1  | 6675.1 | 6419.3 | 6199.0  | 5853.2  | 5916.7  | 6425.4  | 7579.3  | 8314.5  | 7633.6  |
| 40°   | 7387.0  | 7295.5  | 7110.9 | 6858.2 | 6644.2  | 6465.8  | 6383.6  | 6862.8  | 8159.3  | 9117.8  | 8257.1  |
| 42.5° | 7867.8  | 7781.0  | 7560.7 | 7345.2 | 7076.8  | 7025.7  | 6924.8  | 7374.6  | 8793.7  | 10000.3 | 8889.8  |
| 45°   | 8385.8  | 8281.9  | 8015.1 | 7742.1 | 7573.1  | 7397.8  | 7449.1  | 7886.4  | 9415.5  | 10899.8 | 9553.6  |
| 47.5° | 8871.2  | 8754.9  | 8440.1 | 8136.0 | 8043.1  | 7711.2  | 7929.8  | 8449.4  | 10062.3 | 11811.8 | 10211.3 |
| 50°   | 9133.4  | 9018.6  | 8756.5 | 8482.0 | 8409.1  | 8097.3  | 8450.9  | 9068.2  | 10740.1 | 12720.6 | 10842.4 |
| 52.5° | 9352.0  | 9228.0  | 8885.2 | 8733.2 | 8711.5  | 8517.6  | 9093.0  | 9775.4  | 11417.8 | 13524.0 | 11451.9 |
| 55°   | 9584.7  | 9446.6  | 9009.2 | 8872.8 | 8972.0  | 8989.0  | 9854.5  | 10577.2 | 12134.4 | 14307.2 | 12027.3 |
| 57.5° | 9852.9  | 9677.7  | 9128.6 | 8990.7 | 9226.3  | 9541.2  | 10729.2 | 11408.6 | 12838.4 | 15033.0 | 12539.1 |
| 60°   | 10105.8 | 9929.0  | 9358.2 | 9178.3 | 9500.9  | 10181.7 | 11732.7 | 12415.1 | 13635.6 | 15679.7 | 13023.0 |
| 62.5° | 10155.4 | 10009.6 | 9541.2 | 9539.7 | 9873.1  | 10929.3 | 12920.6 | 13430.9 | 14332.0 | 16318.7 | 13457.2 |
| 65°   | 9296.1  | 9204.7  | 8927.0 | 9525.7 | 10406.6 | 12005.6 | 14243.6 | 14730.6 | 15217.6 | 16877.0 | 13838.8 |
| 67.5° | 7075.3  | 7087.7  | 7067.5 | 8223.0 | 9975.5  | 13551.8 | 16158.9 | 16121.7 | 16310.9 | 17503.6 | 14277.7 |
| 70°   | 3235.2  | 3308.1  | 3782.7 | 5676.3 | 7991.8  | 13730.2 | 19326.0 | 18843.6 | 17683.5 | 18314.7 | 14657.7 |
| 72.5° | 1747.8  | 1803.7  | 1997.6 | 2749.8 | 4804.7  | 12207.2 | 21692.6 | 22035.3 | 19508.9 | 18860.6 | 14240.5 |
| 75°   | 1282.6  | 1313.6  | 1448.5 | 1747.8 | 2017.7  | 9072.9  | 20844.3 | 22603.0 | 19736.9 | 17587.4 | 12297.2 |
| 77.5° | 960.0   | 974.0   | 1084.0 | 1385.0 | 1032.9  | 4783.1  | 16655.2 | 18719.5 | 16895.7 | 14449.8 | 9083.7  |
| 80°   | 696.4   | 711.9   | 794.1  | 1039.1 | 724.3   | 1749.5  | 11436.4 | 13139.4 | 11571.3 | 9210.9  | 4527.1  |
| 82.5° | 480.8   | 487.0   | 522.6  | 707.2  | 505.6   | 679.3   | 6489.1  | 7704.9  | 6459.5  | 3232.1  | 1222.1  |
| 85°   | 290.0   | 297.8   | 313.2  | 412.6  | 286.9   | 322.6   | 2800.9  | 2897.1  | 1930.9  | 772.3   | 380.0   |
| 87.5° | 119.4   | 127.2   | 139.6  | 173.7  | 113.3   | 90.0    | 462.2   | 580.0   | 361.3   | 226.4   | 117.9   |
| 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°    | 5291.7  | 5291.7 | 5291.7 | 5291.7 | 5291.7 | 5291.7 | 5291.7 | 5291.7 | 5291.7 | 5291.7 | 5291.7 |
| 2.5°  | 5299.5  | 5288.6 | 5259.2 | 5218.8 | 5181.6 | 5135.0 | 5115.0 | 5097.8 | 5082.4 | 5052.8 | 5038.9 |
| 5°    | 5332.0  | 5302.5 | 5223.5 | 5121.1 | 5004.8 | 4877.7 | 4753.5 | 4668.3 | 4595.4 | 4541.1 | 4496.1 |
| 7.5°  | 5381.7  | 5325.8 | 5181.6 | 4972.3 | 4705.5 | 4432.5 | 4185.9 | 4010.6 | 3878.8 | 3830.7 | 3747.0 |
| 10°   | 5432.8  | 5366.2 | 5115.0 | 4745.8 | 4285.2 | 3864.9 | 3537.6 | 3357.7 | 3252.2 | 3218.2 | 3165.4 |
| 12.5° | 5493.3  | 5395.6 | 5011.0 | 4431.0 | 3815.3 | 3354.6 | 3069.3 | 2963.8 | 2909.5 | 2890.9 | 2895.5 |
| 15°   | 5581.7  | 5420.4 | 4854.4 | 4037.1 | 3367.0 | 2982.4 | 2797.8 | 2725.0 | 2697.1 | 2695.4 | 2701.7 |
| 17.5° | 5648.5  | 5425.1 | 4610.9 | 3615.2 | 3022.7 | 2757.6 | 2605.5 | 2577.6 | 2596.2 | 2624.1 | 2635.0 |
| 20°   | 5722.9  | 5383.2 | 4291.4 | 3230.6 | 2780.8 | 2560.6 | 2497.0 | 2515.6 | 2560.6 | 2600.8 | 2614.9 |
| 22.5° | 5775.6  | 5307.2 | 3905.1 | 2931.2 | 2571.4 | 2447.3 | 2444.2 | 2483.1 | 2507.9 | 2528.0 | 2538.8 |
| 25°   | 5822.1  | 5178.5 | 3495.8 | 2680.0 | 2399.2 | 2379.1 | 2413.3 | 2400.9 | 2383.7 | 2400.9 | 2411.6 |
| 27.5° | 5856.2  | 4975.3 | 3129.7 | 2459.8 | 2278.3 | 2332.6 | 2312.4 | 2284.5 | 2283.0 | 2292.2 | 2307.8 |
| 30°   | 5845.4  | 4703.9 | 2828.9 | 2250.4 | 2193.0 | 2245.7 | 2197.6 | 2193.0 | 2188.4 | 2193.0 | 2210.0 |
| 32.5° | 5845.4  | 4395.3 | 2597.8 | 2106.2 | 2138.7 | 2118.6 | 2113.9 | 2103.0 | 2084.4 | 2082.9 | 2103.0 |
| 35°   | 5878.0  | 4086.7 | 2399.2 | 2028.6 | 2093.8 | 2045.7 | 2048.8 | 2022.4 | 1983.6 | 1965.0 | 1983.6 |
| 37.5° | 5944.7  | 3838.5 | 2202.3 | 1991.4 | 2014.6 | 2013.1 | 2000.7 | 1955.7 | 1887.4 | 1828.5 | 1848.7 |
| 40°   | 6105.9  | 3765.6 | 2067.3 | 1974.4 | 1977.4 | 1996.0 | 1963.5 | 1876.6 | 1721.5 | 1625.3 | 1637.7 |
| 42.5° | 6358.8  | 3888.1 | 2037.9 | 1932.4 | 1952.6 | 1971.2 | 1907.6 | 1706.0 | 1595.9 | 1538.5 | 1538.5 |
| 45°   | 6679.8  | 4102.2 | 2101.5 | 1872.0 | 1893.7 | 1926.3 | 1737.1 | 1640.8 | 1591.2 | 1592.7 | 1600.5 |
| 47.5° | 7086.1  | 4327.0 | 2219.3 | 1819.2 | 1808.4 | 1827.0 | 1623.8 | 1564.9 | 1496.6 | 1513.7 | 1557.1 |
| 50°   | 7556.1  | 4555.0 | 2331.1 | 1747.8 | 1713.8 | 1653.2 | 1550.9 | 1495.1 | 1408.2 | 1367.9 | 1378.7 |
| 52.5° | 8064.7  | 4775.3 | 2376.0 | 1661.0 | 1611.4 | 1541.6 | 1501.3 | 1433.1 | 1327.6 | 1260.9 | 1259.3 |
| 55°   | 8547.1  | 4975.3 | 2326.3 | 1557.1 | 1509.0 | 1454.8 | 1448.5 | 1406.7 | 1293.4 | 1200.4 | 1200.4 |
| 57.5° | 9003.1  | 5142.8 | 2202.3 | 1451.6 | 1405.2 | 1372.6 | 1414.4 | 1394.3 | 1251.6 | 1132.2 | 1126.0 |
| 60°   | 9389.2  | 5257.6 | 2022.4 | 1344.6 | 1312.1 | 1295.0 | 1358.6 | 1352.4 | 1192.7 | 1059.2 | 1054.6 |
| 62.5° | 9696.3  | 5302.5 | 1823.9 | 1242.3 | 1234.5 | 1203.6 | 1281.0 | 1281.0 | 1118.2 | 987.9  | 983.3  |
| 65°   | 9936.7  | 5259.2 | 1622.3 | 1141.4 | 1157.0 | 1110.5 | 1186.4 | 1177.1 | 1039.1 | 924.3  | 918.1  |
| 67.5° | 10149.1 | 5116.5 | 1398.9 | 1042.2 | 1077.9 | 1019.0 | 1087.2 | 1065.5 | 952.2  | 860.8  | 854.5  |
| 70°   | 10243.7 | 4784.6 | 1144.6 | 943.0  | 986.4  | 929.0  | 987.9  | 947.6  | 854.5  | 792.5  | 780.1  |
| 72.5° | 9483.8  | 3976.6 | 901.1  | 839.1  | 876.3  | 829.7  | 880.9  | 834.4  | 749.1  | 721.2  | 697.9  |
| 75°   | 7846.1  | 2984.0 | 693.2  | 725.8  | 753.8  | 718.1  | 752.1  | 718.1  | 640.5  | 660.7  | 603.3  |
| 77.5° | 5698.1  | 2014.6 | 530.4  | 606.4  | 618.8  | 600.2  | 629.7  | 590.9  | 521.1  | 516.5  | 493.2  |
| 80°   | 2833.5  | 1180.3 | 415.6  | 479.2  | 474.6  | 462.2  | 496.3  | 477.6  | 418.7  | 443.5  | 438.9  |
| 82.5° | 820.4   | 505.6  | 302.5  | 336.5  | 327.3  | 330.4  | 355.2  | 364.5  | 545.9  | 541.3  | 553.7  |
| 85°   | 257.5   | 198.5  | 181.4  | 187.7  | 178.4  | 183.0  | 209.4  | 415.6  | 384.6  | 224.9  | 243.5  |
| 87.5° | 66.7    | 68.3   | 45.0   | 48.1   | 49.6   | 58.9   | 66.7   | 252.8  | 121.0  | 79.1   | 83.7   |
| 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)