

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: P885346

Luminaire Tested: **NAV-SB6C-830-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885346  
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-SB6C-830-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

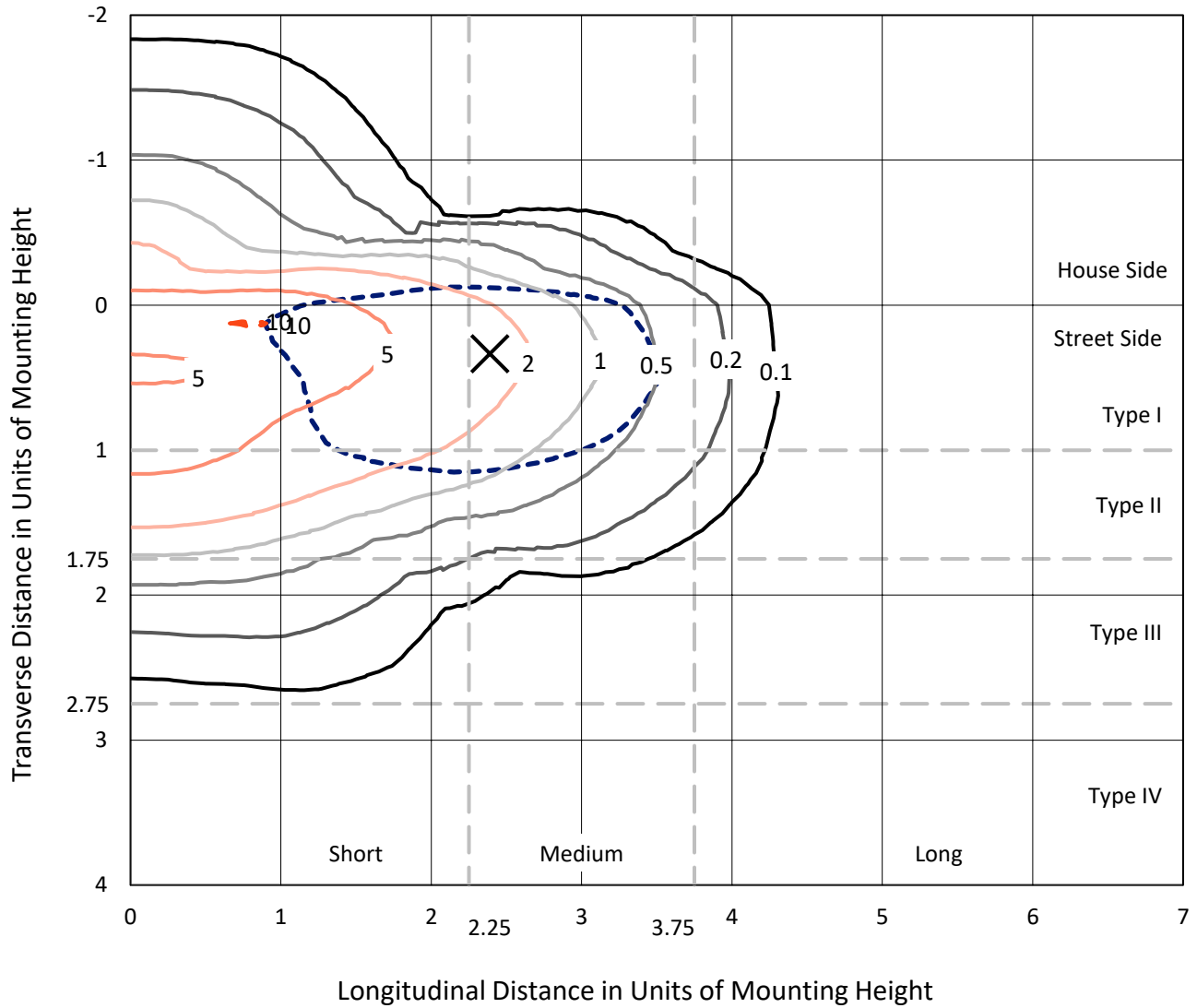
Lumens per Lamp: N/A  
Luminaire Lumens: 29044 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

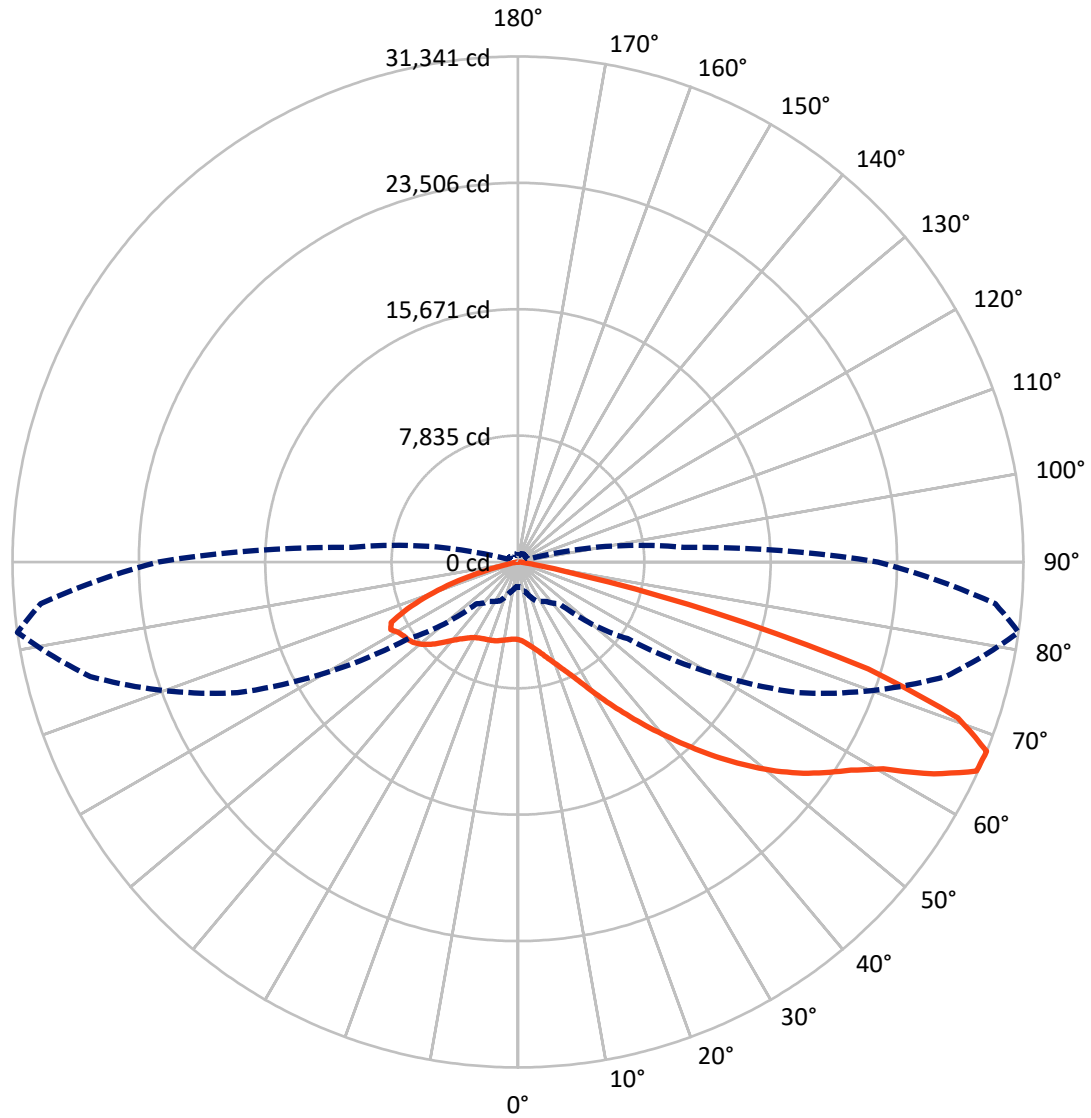
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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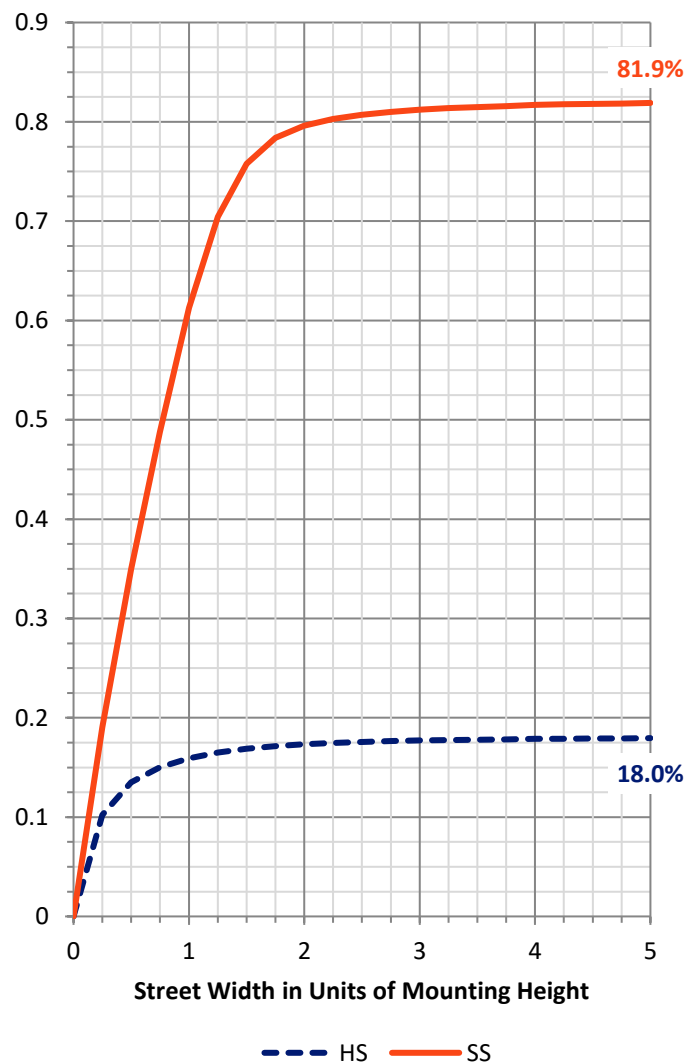
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5261.1   | 0.0    | 5261.1  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 23782.9  | 0.0    | 23782.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 29044.0  | 0.0    | 29044.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 428.7   | 1.5       |
| 10°-20°   | 1114.0  | 3.8       |
| 20°-30°   | 1784.2  | 6.1       |
| 30°-40°   | 3155.0  | 10.9      |
| 40°-50°   | 5527.9  | 19.0      |
| 50°-60°   | 7372.7  | 25.4      |
| 60°-70°   | 6863.6  | 23.6      |
| 70°-80°   | 2634.3  | 9.1       |
| 80°-90°   | 163.6   | 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°    | 29044.0 | 100.0     |
| 0°-180°   | 29044.0 | 100.0     |

**Coefficient of Utilization**



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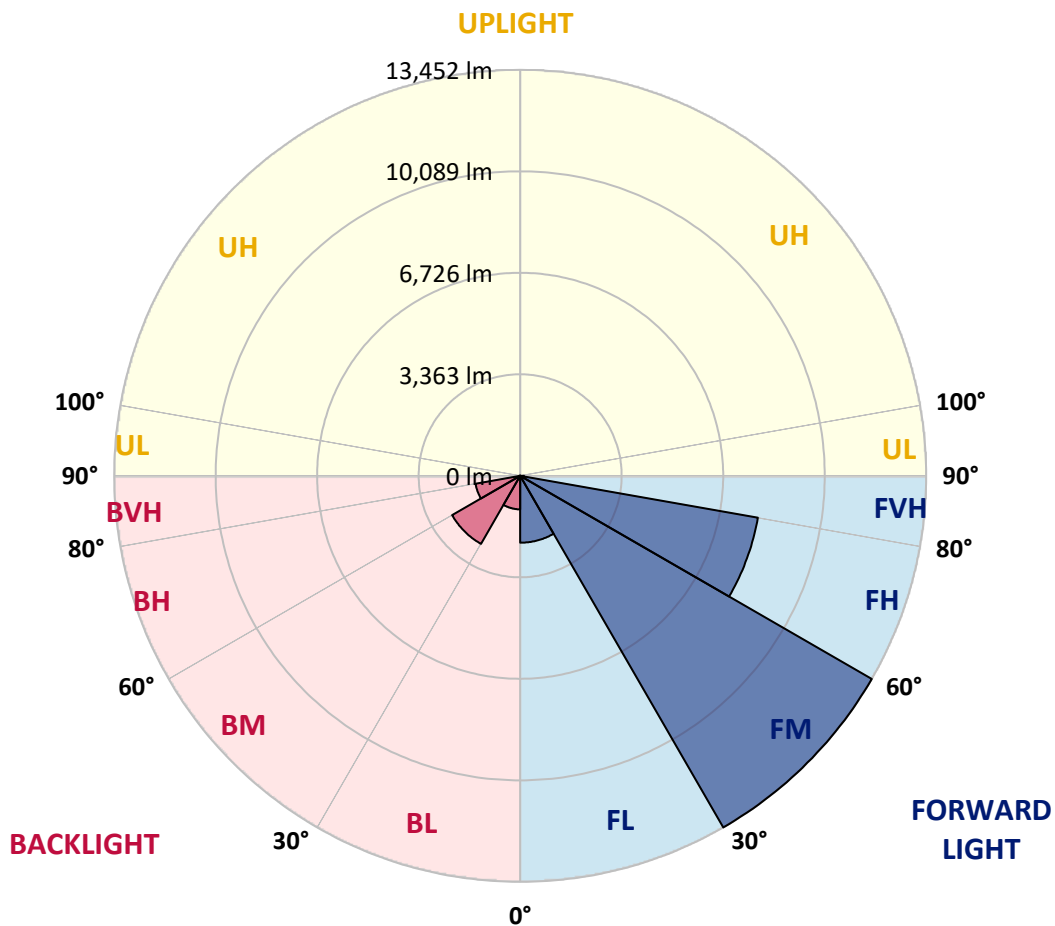
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2215.7  | 7.6       |                         |      |          |
| FM (30°-60°)   | 13452.0 | 46.3      |                         |      |          |
| FH (60°-80°)   | 7996.3  | 27.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 118.9   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1111.1  | 3.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2603.7  | 9.0       | B3/5000                 |      |          |
| BH (60°-80°)   | 1501.6  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 44.7    | 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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  | 4811.6  |
| 2.5°  | 5085.5  | 5114.8  | 5098.1  | 5089.7  | 5075.1  | 5054.2  | 5037.4  | 4985.2  | 4930.8  | 4895.3  | 4882.7  |
| 5°    | 5188.0  | 5217.3  | 5215.2  | 5223.6  | 5234.0  | 5240.3  | 5236.1  | 5177.5  | 5100.2  | 5039.5  | 5004.0  |
| 7.5°  | 5100.2  | 5133.6  | 5160.8  | 5202.6  | 5275.8  | 5353.2  | 5390.8  | 5378.3  | 5298.8  | 5215.2  | 5171.3  |
| 10°   | 4851.3  | 4886.9  | 4951.7  | 5050.0  | 5204.7  | 5372.0  | 5512.1  | 5576.9  | 5526.8  | 5434.8  | 5374.1  |
| 12.5° | 4395.5  | 4431.0  | 4558.6  | 4771.9  | 5031.2  | 5321.8  | 5589.5  | 5763.1  | 5775.6  | 5683.6  | 5612.5  |
| 15°   | 3883.2  | 3918.7  | 4054.6  | 4322.3  | 4717.5  | 5183.8  | 5631.3  | 5959.6  | 6070.4  | 5991.0  | 5905.3  |
| 17.5° | 3565.3  | 3596.7  | 3699.1  | 3914.5  | 4326.5  | 4907.8  | 5616.7  | 6168.7  | 6421.8  | 6359.0  | 6256.6  |
| 20°   | 3469.1  | 3496.3  | 3544.4  | 3695.0  | 4037.9  | 4621.3  | 5520.5  | 6365.3  | 6800.2  | 6764.7  | 6649.7  |
| 22.5° | 3571.6  | 3596.7  | 3611.3  | 3678.2  | 3893.6  | 4433.1  | 5399.2  | 6566.0  | 7239.4  | 7243.6  | 7103.4  |
| 25°   | 3807.9  | 3833.0  | 3816.2  | 3858.1  | 3952.2  | 4374.6  | 5353.2  | 6802.3  | 7791.4  | 7837.4  | 7678.5  |
| 27.5° | 4196.8  | 4198.9  | 4159.2  | 4157.1  | 4171.7  | 4462.4  | 5401.3  | 7055.4  | 8487.8  | 8573.5  | 8376.9  |
| 30°   | 4976.8  | 4945.4  | 4792.8  | 4627.6  | 4552.3  | 4725.9  | 5535.1  | 7354.4  | 9309.6  | 9462.2  | 9215.5  |
| 32.5° | 6179.2  | 6133.2  | 5853.0  | 5457.8  | 5060.4  | 5150.4  | 5775.6  | 7695.2  | 10204.5 | 10480.6 | 10179.4 |
| 35°   | 7484.0  | 7471.5  | 7178.7  | 6591.1  | 5896.9  | 5754.7  | 6166.6  | 8142.7  | 11181.1 | 11620.2 | 11262.6 |
| 37.5° | 8696.9  | 8690.6  | 8523.3  | 7831.1  | 6986.3  | 6597.4  | 6794.0  | 8728.2  | 12226.6 | 12862.3 | 12439.9 |
| 40°   | 9805.1  | 9824.0  | 9656.7  | 9037.7  | 8186.6  | 7678.5  | 7647.1  | 9451.7  | 13389.3 | 14215.3 | 13713.4 |
| 42.5° | 10762.9 | 10783.8 | 10614.4 | 10156.4 | 9372.3  | 8874.6  | 8694.8  | 10338.4 | 14524.7 | 15668.6 | 15074.7 |
| 45°   | 11413.2 | 11542.8 | 11517.7 | 11151.8 | 10589.3 | 10072.8 | 9953.6  | 11450.8 | 15819.1 | 17209.7 | 16513.4 |
| 47.5° | 11597.2 | 11716.4 | 11904.6 | 11954.8 | 11611.8 | 11103.7 | 11245.9 | 12791.2 | 17128.2 | 18752.9 | 17960.4 |
| 50°   | 11143.4 | 11254.3 | 11645.3 | 12166.0 | 12404.4 | 12247.5 | 12502.7 | 14227.8 | 18468.5 | 20292.0 | 19380.3 |
| 52.5° | 10248.5 | 10361.4 | 10854.9 | 11678.8 | 12651.1 | 13144.6 | 13763.6 | 15643.5 | 19767.1 | 21749.5 | 20724.8 |
| 55°   | 8954.1  | 9073.3  | 9706.9  | 10639.5 | 12180.6 | 13514.7 | 14815.4 | 17057.1 | 20956.9 | 23060.6 | 21937.7 |
| 57.5° | 7193.4  | 7281.2  | 7939.9  | 9244.7  | 10997.1 | 13146.7 | 15591.2 | 18600.3 | 22077.8 | 24348.7 | 23140.0 |
| 60°   | 4688.2  | 4765.6  | 5530.9  | 6986.3  | 9035.6  | 11917.1 | 15745.9 | 20321.3 | 23566.6 | 26023.7 | 24760.6 |
| 62.5° | 3117.8  | 3170.1  | 3623.9  | 4692.4  | 6363.2  | 9556.3  | 14840.5 | 21695.1 | 25749.7 | 28938.7 | 27539.7 |
| 65°   | 2139.2  | 2191.5  | 2645.2  | 3389.7  | 4111.1  | 6321.4  | 12237.1 | 21513.2 | 27727.9 | 31253.5 | 29599.4 |
| 67.5° | 1526.5  | 1570.4  | 1955.2  | 2657.8  | 2975.6  | 3672.0  | 8295.4  | 19187.9 | 27443.5 | 31341.3 | 29710.3 |
| 70°   | 1093.6  | 1118.7  | 1436.6  | 2070.2  | 2365.0  | 2206.1  | 4613.0  | 14675.3 | 24028.8 | 28940.7 | 27447.7 |
| 72.5° | 765.3   | 773.7   | 997.5   | 1576.7  | 1905.0  | 1610.1  | 2195.6  | 9784.2  | 18173.7 | 22715.6 | 21279.0 |
| 75°   | 518.6   | 529.0   | 671.2   | 1156.4  | 1528.6  | 1229.6  | 1162.6  | 5246.6  | 10668.8 | 12573.7 | 11271.0 |
| 77.5° | 317.8   | 322.0   | 432.9   | 790.4   | 1143.8  | 936.8   | 748.6   | 2222.8  | 4127.8  | 4052.5  | 3454.5  |
| 80°   | 179.8   | 179.8   | 276.0   | 491.4   | 780.0   | 604.3   | 524.9   | 945.2   | 1306.9  | 1148.0  | 1012.1  |
| 82.5° | 100.4   | 102.5   | 200.7   | 305.3   | 516.5   | 357.6   | 288.6   | 437.0   | 564.6   | 499.8   | 434.9   |
| 85°   | 41.8    | 46.0    | 123.4   | 144.3   | 246.7   | 177.7   | 117.1   | 184.0   | 209.1   | 186.1   | 135.9   |
| 87.5° | 4.2     | 6.3     | 37.6    | 27.2    | 29.3    | 35.5    | 16.7    | 35.5    | 29.3    | 29.3    | 20.9    |
| 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°    | 4811.6  | 4811.6  | 4811.6 | 4811.6 | 4811.6 | 4811.6 | 4811.6 | 4811.6 | 4811.6 | 4811.6 | 4811.6 |
| 2.5°  | 4843.0  | 4811.6  | 4732.1 | 4640.1 | 4518.9 | 4460.3 | 4380.8 | 4326.5 | 4280.5 | 4284.7 | 4242.8 |
| 5°    | 4937.1  | 4857.6  | 4679.9 | 4458.2 | 4182.2 | 3985.6 | 3776.5 | 3632.2 | 3515.1 | 3490.0 | 3433.6 |
| 7.5°  | 5066.7  | 4941.3  | 4629.7 | 4230.3 | 3764.0 | 3410.6 | 3094.8 | 2892.0 | 2747.7 | 2701.7 | 2655.7 |
| 10°   | 5234.0  | 5052.1  | 4564.9 | 3943.8 | 3272.6 | 2823.0 | 2484.2 | 2325.3 | 2227.0 | 2193.6 | 2168.5 |
| 12.5° | 5428.5  | 5179.6  | 4479.1 | 3594.6 | 2766.5 | 2333.7 | 2118.3 | 2038.8 | 2007.5 | 1997.0 | 1990.7 |
| 15°   | 5673.1  | 5338.6  | 4349.5 | 3180.6 | 2337.8 | 2034.6 | 1942.6 | 1932.2 | 1936.4 | 1932.2 | 1930.1 |
| 17.5° | 5963.8  | 5512.1  | 4138.3 | 2754.0 | 2049.3 | 1882.0 | 1848.5 | 1856.9 | 1867.3 | 1865.3 | 1861.1 |
| 20°   | 6281.6  | 5683.6  | 3868.5 | 2375.5 | 1852.7 | 1773.2 | 1754.4 | 1762.8 | 1771.2 | 1767.0 | 1764.9 |
| 22.5° | 6643.4  | 5867.6  | 3569.5 | 2080.6 | 1721.0 | 1672.9 | 1652.0 | 1654.1 | 1654.1 | 1645.7 | 1641.5 |
| 25°   | 7076.3  | 6070.4  | 3255.8 | 1871.5 | 1620.6 | 1583.0 | 1557.9 | 1549.5 | 1537.0 | 1511.9 | 1507.7 |
| 27.5° | 7592.8  | 6285.8  | 2954.7 | 1725.2 | 1541.1 | 1505.6 | 1476.3 | 1455.4 | 1424.0 | 1382.2 | 1378.0 |
| 30°   | 8174.1  | 6547.2  | 2699.6 | 1633.1 | 1478.4 | 1442.9 | 1409.4 | 1378.0 | 1332.0 | 1279.7 | 1275.6 |
| 32.5° | 8857.9  | 6827.4  | 2513.5 | 1572.5 | 1421.9 | 1384.3 | 1344.6 | 1306.9 | 1256.7 | 1204.5 | 1206.6 |
| 35°   | 9673.4  | 7166.2  | 2404.8 | 1530.7 | 1378.0 | 1327.8 | 1283.9 | 1242.1 | 1204.5 | 1158.5 | 1154.3 |
| 37.5° | 10557.9 | 7525.8  | 2371.3 | 1509.8 | 1348.8 | 1271.4 | 1221.2 | 1191.9 | 1187.7 | 1160.6 | 1158.5 |
| 40°   | 11526.1 | 7952.4  | 2396.4 | 1497.2 | 1317.4 | 1217.0 | 1162.6 | 1156.4 | 1166.8 | 1118.7 | 1120.8 |
| 42.5° | 12550.7 | 8458.5  | 2438.2 | 1482.6 | 1273.5 | 1162.6 | 1110.4 | 1110.4 | 1102.0 | 1035.1 | 1035.1 |
| 45°   | 13659.0 | 9041.9  | 2480.0 | 1447.0 | 1221.2 | 1108.3 | 1068.5 | 1053.9 | 1018.4 | 953.5  | 951.4  |
| 47.5° | 14775.7 | 9635.8  | 2511.4 | 1382.2 | 1158.5 | 1062.3 | 1026.7 | 993.3  | 941.0  | 882.4  | 880.4  |
| 50°   | 15835.9 | 10169.0 | 2477.9 | 1286.0 | 1087.4 | 1018.4 | 980.7  | 934.7  | 878.3  | 838.5  | 832.3  |
| 52.5° | 16783.1 | 10631.1 | 2335.8 | 1173.1 | 1012.1 | 972.4  | 938.9  | 890.8  | 844.8  | 803.0  | 798.8  |
| 55°   | 17607.0 | 11005.4 | 2084.8 | 1066.5 | 945.2  | 932.6  | 899.2  | 838.5  | 775.8  | 740.2  | 736.1  |
| 57.5° | 18397.4 | 11289.8 | 1771.2 | 978.6  | 884.5  | 888.7  | 838.5  | 784.2  | 725.6  | 688.0  | 683.8  |
| 60°   | 19449.3 | 11670.4 | 1453.3 | 897.1  | 819.7  | 832.3  | 777.9  | 738.2  | 665.0  | 616.9  | 610.6  |
| 62.5° | 21130.5 | 12262.2 | 1154.3 | 796.7  | 744.4  | 748.6  | 725.6  | 677.5  | 589.7  | 533.2  | 529.0  |
| 65°   | 22464.6 | 12044.7 | 909.6  | 688.0  | 658.7  | 665.0  | 665.0  | 612.7  | 518.6  | 453.8  | 447.5  |
| 67.5° | 22314.1 | 10313.3 | 725.6  | 581.3  | 577.1  | 581.3  | 596.0  | 552.0  | 460.0  | 407.8  | 399.4  |
| 70°   | 20555.5 | 8203.4  | 581.3  | 483.0  | 501.9  | 491.4  | 533.2  | 504.0  | 414.0  | 361.8  | 355.5  |
| 72.5° | 16772.7 | 5909.4  | 443.3  | 399.4  | 384.8  | 401.5  | 481.0  | 453.8  | 345.0  | 286.5  | 280.2  |
| 75°   | 9801.0  | 3153.4  | 330.4  | 315.8  | 278.1  | 334.6  | 426.6  | 386.9  | 263.5  | 211.2  | 204.9  |
| 77.5° | 3191.0  | 1099.9  | 242.6  | 232.1  | 207.0  | 269.8  | 363.9  | 326.2  | 215.4  | 167.3  | 161.0  |
| 80°   | 855.3   | 332.5   | 165.2  | 152.6  | 133.8  | 200.7  | 288.6  | 259.3  | 154.7  | 108.7  | 106.6  |
| 82.5° | 342.9   | 140.1   | 96.2   | 85.7   | 73.2   | 138.0  | 227.9  | 209.1  | 115.0  | 69.0   | 69.0   |
| 85°   | 110.8   | 46.0    | 35.5   | 27.2   | 33.5   | 85.7   | 135.9  | 142.2  | 81.6   | 35.5   | 27.2   |
| 87.5° | 14.6    | 6.3     | 6.3    | 8.4    | 6.3    | 14.6   | 41.8   | 39.7   | 23.0   | 4.2    | 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)