

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: STREETWORKS

Report Number: P885506

Luminaire Tested: **NVN-SB6D-827-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885506  
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: STREETWORKS  
Catalog Number: NVN-SB6D-827-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

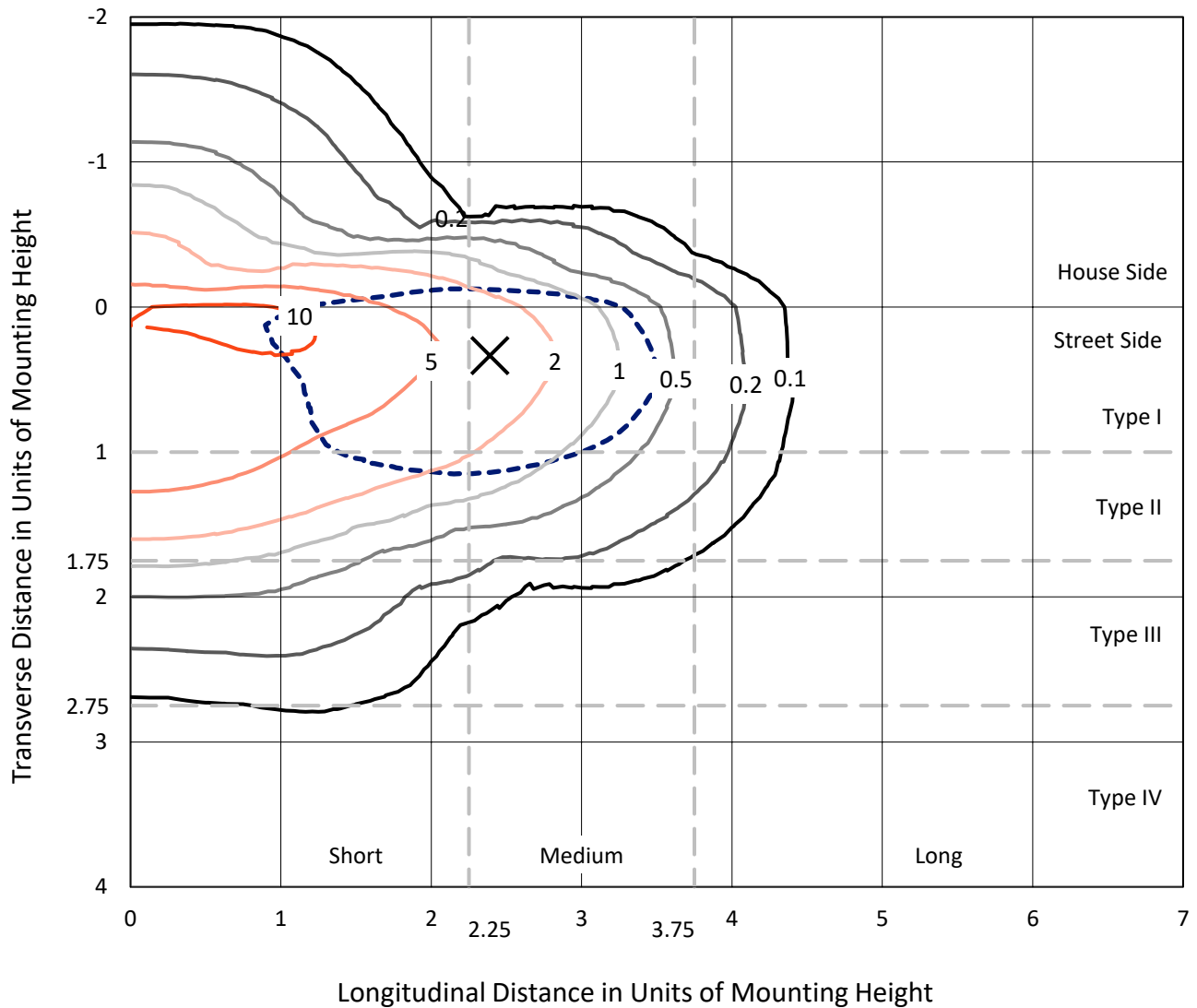
Lumens per Lamp: N/A  
Luminaire Lumens: 36646 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

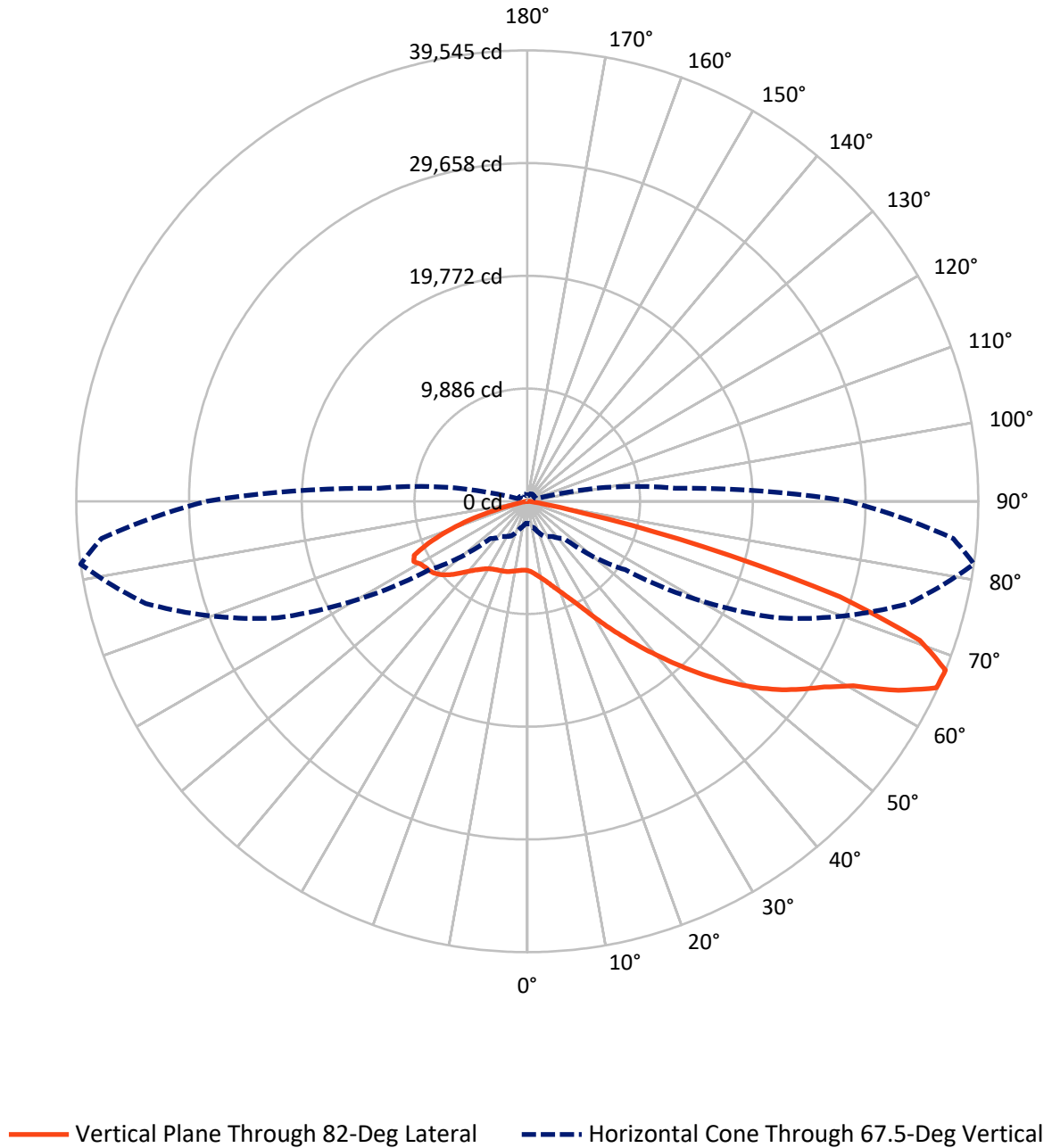
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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    | 6638.1   | 0.0    | 6638.1  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 30007.9  | 0.0    | 30007.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 36646.0  | 0.0    | 36646.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 540.9   | 1.5       |
| 10°-20°   | 1405.5  | 3.8       |
| 20°-30°   | 2251.2  | 6.1       |
| 30°-40°   | 3980.8  | 10.9      |
| 40°-50°   | 6974.8  | 19.0      |
| 50°-60°   | 9302.4  | 25.4      |
| 60°-70°   | 8660.1  | 23.6      |
| 70°-80°   | 3323.7  | 9.1       |
| 80°-90°   | 206.4   | 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°    | 36646.0 | 100.0     |
| 0°-180°   | 36646.0 | 100.0     |

**Coefficient of Utilization**



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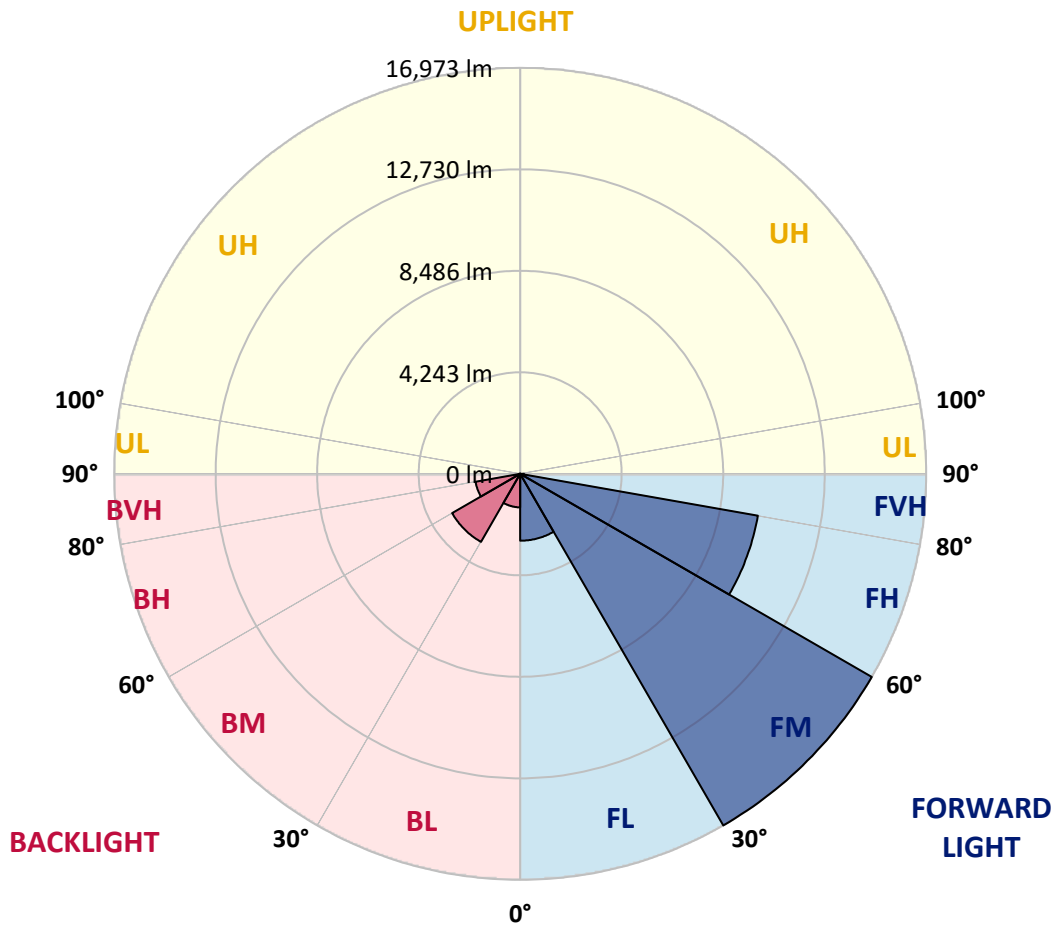
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2795.7  | 7.6       |                         |      |          |
| FM (30°-60°)   | 16972.9 | 46.3      |                         |      |          |
| FH (60°-80°)   | 10089.2 | 27.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 150.1   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1401.9  | 3.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 3285.2  | 9.0       | B3/5000                 |      |          |
| BH (60°-80°)   | 1894.6  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 56.4    | 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°    | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  | 6071.0  |
| 2.5°  | 6416.6  | 6453.6  | 6432.5  | 6421.9  | 6403.4  | 6377.1  | 6356.0  | 6290.0  | 6221.4  | 6176.5  | 6160.7  |
| 5°    | 6545.9  | 6582.9  | 6580.2  | 6590.8  | 6604.0  | 6611.9  | 6606.6  | 6532.7  | 6435.1  | 6358.6  | 6313.7  |
| 7.5°  | 6435.1  | 6477.3  | 6511.6  | 6564.4  | 6656.7  | 6754.4  | 6801.8  | 6786.0  | 6685.8  | 6580.2  | 6524.8  |
| 10°   | 6121.1  | 6166.0  | 6247.8  | 6371.8  | 6567.0  | 6778.1  | 6954.9  | 7036.7  | 6973.3  | 6857.3  | 6780.7  |
| 12.5° | 5546.0  | 5590.8  | 5751.8  | 6020.9  | 6348.0  | 6714.8  | 7052.5  | 7271.5  | 7287.3  | 7171.2  | 7081.5  |
| 15°   | 4899.5  | 4944.4  | 5115.9  | 5453.6  | 5952.3  | 6540.6  | 7105.3  | 7519.5  | 7659.3  | 7559.1  | 7450.9  |
| 17.5° | 4498.5  | 4538.1  | 4667.4  | 4939.1  | 5458.9  | 6192.4  | 7086.8  | 7783.3  | 8102.6  | 8023.4  | 7894.1  |
| 20°   | 4377.1  | 4411.4  | 4472.1  | 4662.1  | 5094.8  | 5830.9  | 6965.4  | 8031.3  | 8580.1  | 8535.3  | 8390.2  |
| 22.5° | 4506.4  | 4538.1  | 4556.5  | 4641.0  | 4912.7  | 5593.4  | 6812.4  | 8284.6  | 9134.2  | 9139.5  | 8962.7  |
| 25°   | 4804.6  | 4836.2  | 4815.1  | 4867.9  | 4986.6  | 5519.6  | 6754.4  | 8582.8  | 9830.7  | 9888.8  | 9688.3  |
| 27.5° | 5295.3  | 5297.9  | 5247.8  | 5245.2  | 5263.6  | 5630.4  | 6815.0  | 8902.0  | 10709.3 | 10817.5 | 10569.5 |
| 30°   | 6279.4  | 6239.9  | 6047.3  | 5838.8  | 5743.8  | 5962.8  | 6983.9  | 9279.3  | 11746.2 | 11938.8 | 11627.5 |
| 32.5° | 7796.5  | 7738.5  | 7384.9  | 6886.3  | 6385.0  | 6498.4  | 7287.3  | 9709.4  | 12875.5 | 13223.8 | 12843.8 |
| 35°   | 9442.9  | 9427.1  | 9057.7  | 8316.3  | 7440.3  | 7260.9  | 7780.7  | 10274.0 | 14107.6 | 14661.7 | 14210.5 |
| 37.5° | 10973.2 | 10965.3 | 10754.2 | 9880.9  | 8815.0  | 8324.2  | 8572.2  | 11012.8 | 15426.8 | 16228.9 | 15696.0 |
| 40°   | 12371.5 | 12395.3 | 12184.2 | 11403.2 | 10329.4 | 9688.3  | 9648.7  | 11925.7 | 16893.8 | 17936.0 | 17302.8 |
| 42.5° | 13579.9 | 13606.3 | 13392.6 | 12814.8 | 11825.4 | 11197.5 | 10970.5 | 13044.3 | 18326.5 | 19769.7 | 19020.4 |
| 45°   | 14400.5 | 14564.1 | 14532.4 | 14070.7 | 13361.0 | 12709.3 | 12558.9 | 14448.0 | 19959.6 | 21714.2 | 20835.6 |
| 47.5° | 14632.7 | 14783.1 | 15020.5 | 15083.8 | 14651.1 | 14010.0 | 14189.4 | 16139.2 | 21611.3 | 23661.3 | 22661.4 |
| 50°   | 14060.1 | 14200.0 | 14693.4 | 15350.3 | 15651.1 | 15453.2 | 15775.1 | 17951.8 | 23302.5 | 25603.2 | 24452.9 |
| 52.5° | 12930.9 | 13073.4 | 13696.0 | 14735.6 | 15962.4 | 16585.1 | 17366.1 | 19738.0 | 24941.0 | 27442.2 | 26149.4 |
| 55°   | 11297.7 | 11448.1 | 12247.5 | 13424.3 | 15368.8 | 17052.1 | 18693.2 | 21521.6 | 26442.2 | 29096.5 | 27679.7 |
| 57.5° | 9076.2  | 9187.0  | 10018.1 | 11664.5 | 13875.4 | 16587.7 | 19672.1 | 23468.7 | 27856.4 | 30721.8 | 29196.7 |
| 60°   | 5915.3  | 6013.0  | 6978.6  | 8815.0  | 11400.6 | 15036.3 | 19867.3 | 25640.2 | 29735.0 | 32835.1 | 31241.5 |
| 62.5° | 3933.9  | 3999.8  | 4572.4  | 5920.6  | 8028.7  | 12057.6 | 18724.9 | 27373.6 | 32489.5 | 36513.1 | 34748.0 |
| 65°   | 2699.1  | 2765.1  | 3337.6  | 4276.9  | 5187.1  | 7975.9  | 15440.0 | 27144.1 | 34985.4 | 39433.8 | 37346.8 |
| 67.5° | 1926.0  | 1981.5  | 2466.9  | 3353.4  | 3754.5  | 4633.1  | 10466.6 | 24210.1 | 34626.6 | 39544.6 | 37486.7 |
| 70°   | 1379.9  | 1411.6  | 1812.6  | 2612.0  | 2984.1  | 2783.5  | 5820.4  | 18516.4 | 30318.1 | 36515.7 | 34631.9 |
| 72.5° | 965.7   | 976.2   | 1258.5  | 1989.4  | 2403.6  | 2031.6  | 2770.3  | 12345.2 | 22930.5 | 28661.1 | 26848.6 |
| 75°   | 654.3   | 667.5   | 846.9   | 1459.0  | 1928.7  | 1551.4  | 1467.0  | 6619.8  | 13461.2 | 15864.8 | 14221.1 |
| 77.5° | 401.0   | 406.3   | 546.2   | 997.3   | 1443.2  | 1182.0  | 944.6   | 2804.6  | 5208.2  | 5113.3  | 4358.7  |
| 80°   | 226.9   | 226.9   | 348.3   | 620.0   | 984.1   | 762.5   | 662.2   | 1192.6  | 1649.0  | 1448.5  | 1277.0  |
| 82.5° | 126.6   | 129.3   | 253.3   | 385.2   | 651.7   | 451.2   | 364.1   | 551.4   | 712.4   | 630.6   | 548.8   |
| 85°   | 52.8    | 58.0    | 155.7   | 182.1   | 311.3   | 224.3   | 147.8   | 232.2   | 263.8   | 234.8   | 171.5   |
| 87.5° | 5.3     | 7.9     | 47.5    | 34.3    | 36.9    | 44.9    | 21.1    | 44.9    | 36.9    | 36.9    | 26.4    |
| 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°    | 6071.0  | 6071.0  | 6071.0 | 6071.0 | 6071.0 | 6071.0 | 6071.0 | 6071.0 | 6071.0 | 6071.0 | 6071.0 |
| 2.5°  | 6110.6  | 6071.0  | 5970.7 | 5854.7 | 5701.6 | 5627.7 | 5527.5 | 5458.9 | 5400.8 | 5406.1 | 5353.4 |
| 5°    | 6229.3  | 6129.0  | 5904.8 | 5625.1 | 5276.8 | 5028.8 | 4765.0 | 4582.9 | 4435.2 | 4403.5 | 4332.3 |
| 7.5°  | 6392.9  | 6234.6  | 5841.5 | 5337.5 | 4749.2 | 4303.3 | 3904.9 | 3648.9 | 3466.9 | 3408.8 | 3350.8 |
| 10°   | 6604.0  | 6374.4  | 5759.7 | 4976.1 | 4129.1 | 3561.9 | 3134.4 | 2933.9 | 2809.9 | 2767.7 | 2736.0 |
| 12.5° | 6849.3  | 6535.4  | 5651.5 | 4535.4 | 3490.6 | 2944.5 | 2672.7 | 2572.5 | 2532.9 | 2519.7 | 2511.8 |
| 15°   | 7158.0  | 6735.9  | 5487.9 | 4013.0 | 2949.8 | 2567.2 | 2451.1 | 2437.9 | 2443.2 | 2437.9 | 2435.3 |
| 17.5° | 7524.8  | 6954.9  | 5221.4 | 3474.8 | 2585.7 | 2374.6 | 2332.4 | 2342.9 | 2356.1 | 2353.5 | 2348.2 |
| 20°   | 7925.8  | 7171.2  | 4881.1 | 2997.2 | 2337.6 | 2237.4 | 2213.6 | 2224.2 | 2234.7 | 2229.5 | 2226.8 |
| 22.5° | 8382.3  | 7403.4  | 4503.8 | 2625.2 | 2171.4 | 2110.7 | 2084.4 | 2087.0 | 2087.0 | 2076.4 | 2071.2 |
| 25°   | 8928.4  | 7659.3  | 4108.0 | 2361.4 | 2044.8 | 1997.3 | 1965.6 | 1955.1 | 1939.2 | 1907.6 | 1902.3 |
| 27.5° | 9580.1  | 7931.1  | 3728.1 | 2176.7 | 1944.5 | 1899.7 | 1862.7 | 1836.3 | 1796.8 | 1744.0 | 1738.7 |
| 30°   | 10313.6 | 8260.9  | 3406.2 | 2060.6 | 1865.4 | 1820.5 | 1778.3 | 1738.7 | 1680.7 | 1614.7 | 1609.4 |
| 32.5° | 11176.3 | 8614.4  | 3171.4 | 1984.1 | 1794.1 | 1746.6 | 1696.5 | 1649.0 | 1585.7 | 1519.7 | 1522.4 |
| 35°   | 12205.3 | 9041.9  | 3034.2 | 1931.3 | 1738.7 | 1675.4 | 1620.0 | 1567.2 | 1519.7 | 1461.7 | 1456.4 |
| 37.5° | 13321.4 | 9495.7  | 2992.0 | 1904.9 | 1701.8 | 1604.2 | 1540.8 | 1503.9 | 1498.6 | 1464.3 | 1461.7 |
| 40°   | 14543.0 | 10033.9 | 3023.6 | 1889.1 | 1662.2 | 1535.6 | 1467.0 | 1459.0 | 1472.2 | 1411.6 | 1414.2 |
| 42.5° | 15835.8 | 10672.4 | 3076.4 | 1870.6 | 1606.8 | 1467.0 | 1401.0 | 1401.0 | 1390.4 | 1306.0 | 1306.0 |
| 45°   | 17234.2 | 11408.5 | 3129.2 | 1825.8 | 1540.8 | 1398.4 | 1348.2 | 1329.8 | 1284.9 | 1203.1 | 1200.5 |
| 47.5° | 18643.1 | 12157.8 | 3168.7 | 1744.0 | 1461.7 | 1340.3 | 1295.5 | 1253.2 | 1187.3 | 1113.4 | 1110.8 |
| 50°   | 19980.7 | 12830.6 | 3126.5 | 1622.6 | 1372.0 | 1284.9 | 1237.4 | 1179.4 | 1108.1 | 1058.0 | 1050.1 |
| 52.5° | 21176.0 | 13413.7 | 2947.1 | 1480.2 | 1277.0 | 1226.9 | 1184.7 | 1124.0 | 1065.9 | 1013.2 | 1007.9 |
| 55°   | 22215.5 | 13886.0 | 2630.5 | 1345.6 | 1192.6 | 1176.7 | 1134.5 | 1058.0 | 978.9  | 934.0  | 928.7  |
| 57.5° | 23212.8 | 14244.8 | 2234.7 | 1234.8 | 1116.1 | 1121.3 | 1058.0 | 989.4  | 915.5  | 868.0  | 862.8  |
| 60°   | 24539.9 | 14725.0 | 1833.7 | 1131.9 | 1034.3 | 1050.1 | 981.5  | 931.4  | 839.0  | 778.3  | 770.4  |
| 62.5° | 26661.2 | 15471.7 | 1456.4 | 1005.2 | 939.3  | 944.6  | 915.5  | 854.8  | 744.0  | 672.8  | 667.5  |
| 65°   | 28344.5 | 15197.3 | 1147.7 | 868.0  | 831.1  | 839.0  | 839.0  | 773.1  | 654.3  | 572.5  | 564.6  |
| 67.5° | 28154.6 | 13012.7 | 915.5  | 733.5  | 728.2  | 733.5  | 751.9  | 696.5  | 580.5  | 514.5  | 503.9  |
| 70°   | 25935.7 | 10350.5 | 733.5  | 609.5  | 633.2  | 620.0  | 672.8  | 635.9  | 522.4  | 456.4  | 448.5  |
| 72.5° | 21162.8 | 7456.2  | 559.3  | 503.9  | 485.5  | 506.6  | 606.8  | 572.5  | 435.3  | 361.5  | 353.5  |
| 75°   | 12366.3 | 3978.7  | 416.9  | 398.4  | 350.9  | 422.1  | 538.2  | 488.1  | 332.4  | 266.5  | 258.6  |
| 77.5° | 4026.2  | 1387.8  | 306.1  | 292.9  | 261.2  | 340.4  | 459.1  | 411.6  | 271.8  | 211.1  | 203.2  |
| 80°   | 1079.1  | 419.5   | 208.4  | 192.6  | 168.9  | 253.3  | 364.1  | 327.2  | 195.2  | 137.2  | 134.6  |
| 82.5° | 432.7   | 176.8   | 121.4  | 108.2  | 92.3   | 174.1  | 287.6  | 263.8  | 145.1  | 87.1   | 87.1   |
| 85°   | 139.8   | 58.0    | 44.9   | 34.3   | 42.2   | 108.2  | 171.5  | 179.4  | 102.9  | 44.9   | 34.3   |
| 87.5° | 18.5    | 7.9     | 7.9    | 10.6   | 7.9    | 18.5   | 52.8   | 50.1   | 29.0   | 5.3    | 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)