

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: P195312

Luminaire Tested: **NVN-AF-06-LED-U-T2-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P195312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-06-LED-U-T2-7060-1200  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38679 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G5

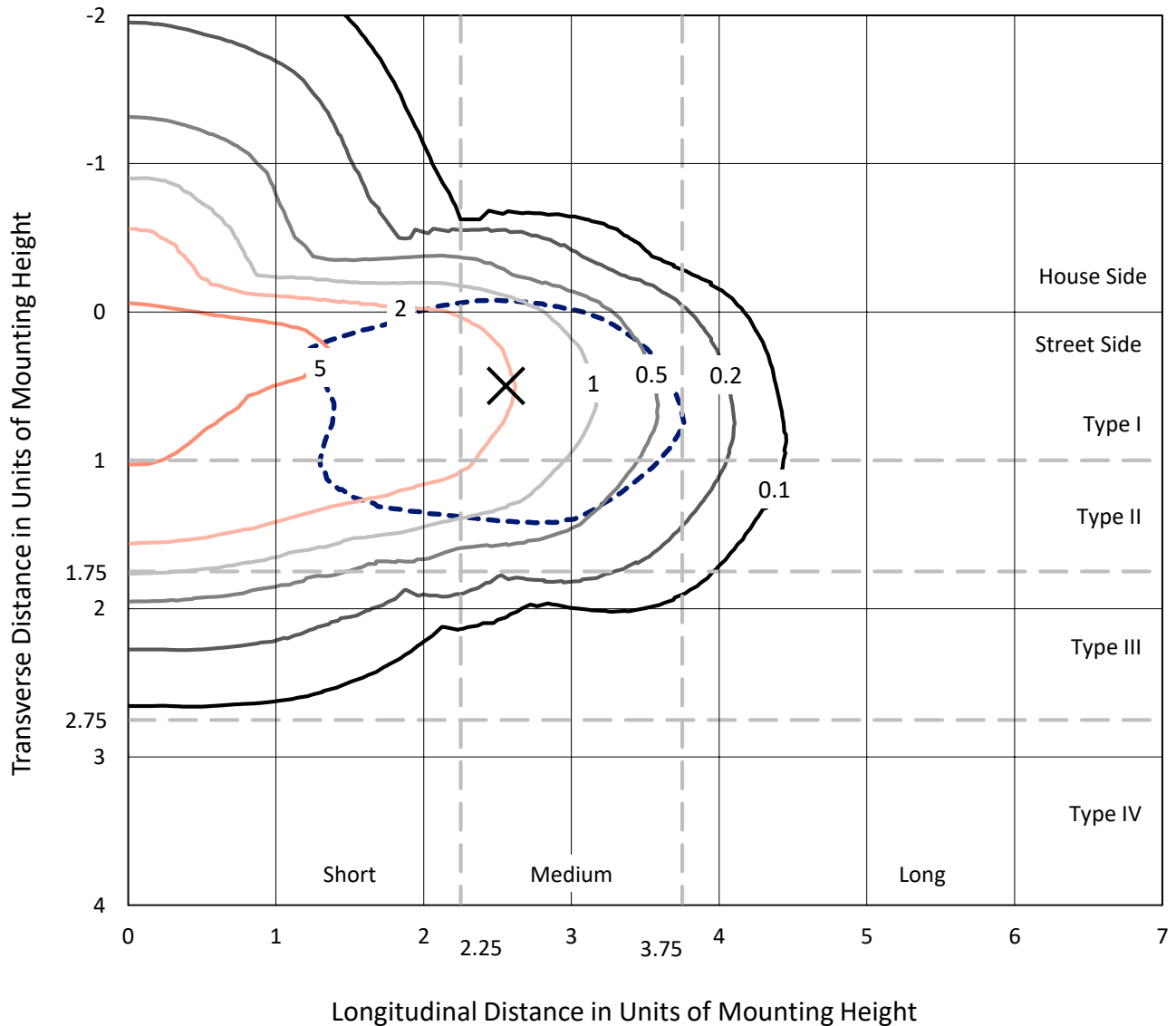
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

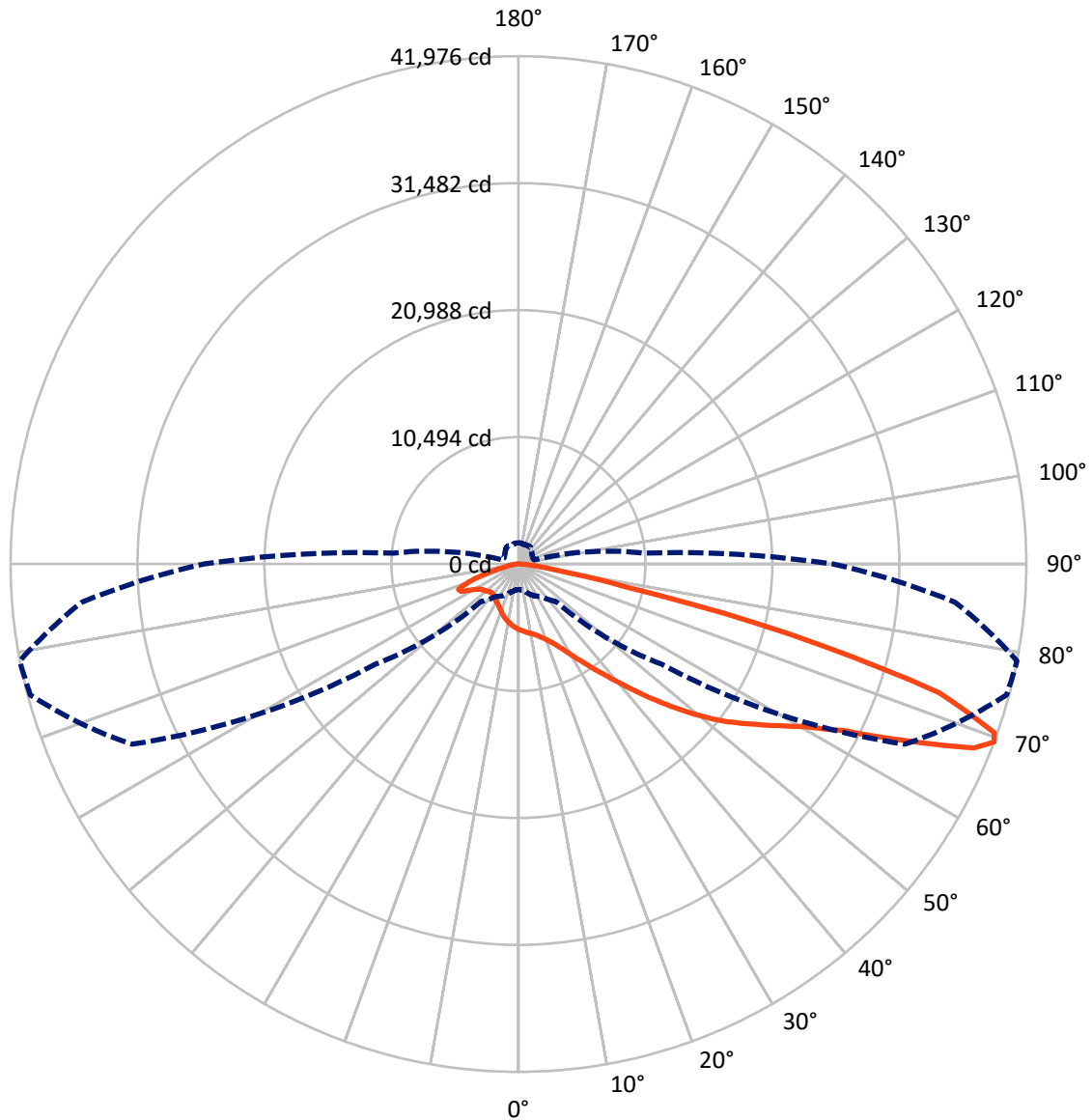
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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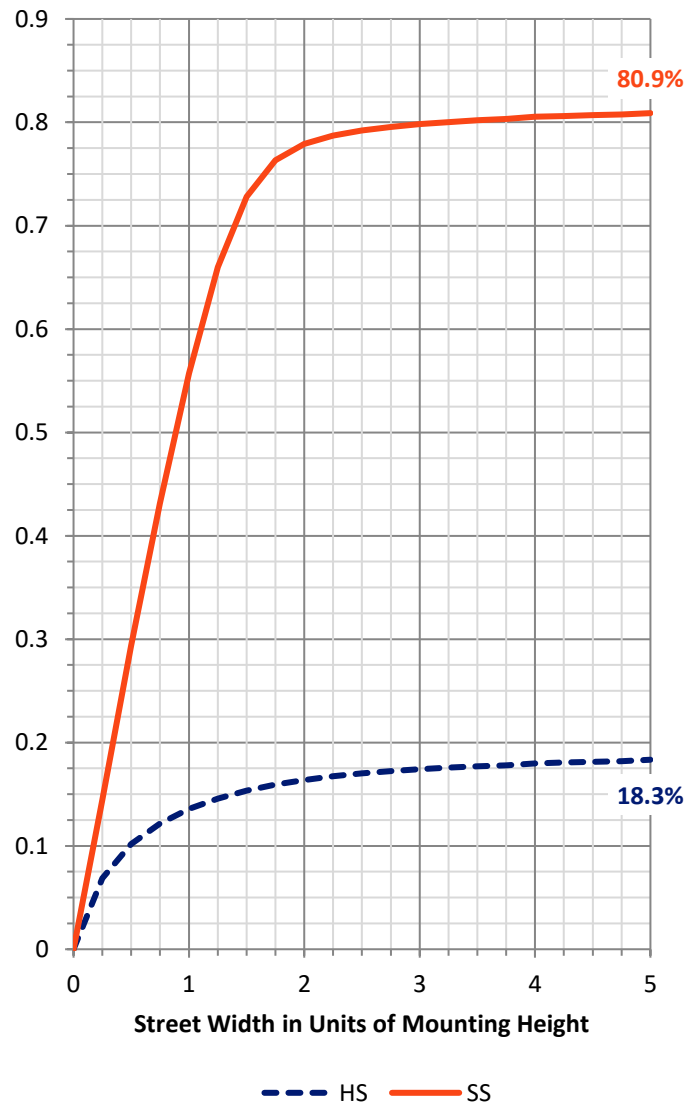
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7276.2   | 0.0    | 7276.2  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 31402.8  | 0.0    | 31402.8 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 38679.0  | 0.0    | 38679.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 503.2   | 1.3       |
| 10°-20°   | 1442.6  | 3.7       |
| 20°-30°   | 2383.8  | 6.2       |
| 30°-40°   | 3860.1  | 10.0      |
| 40°-50°   | 6166.4  | 15.9      |
| 50°-60°   | 8831.0  | 22.8      |
| 60°-70°   | 9839.0  | 25.4      |
| 70°-80°   | 4922.3  | 12.7      |
| 80°-90°   | 730.5   | 1.9       |
| 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°    | 38679.0 | 100.0     |
| 0°-180°   | 38679.0 | 100.0     |

**Coefficient of Utilization**



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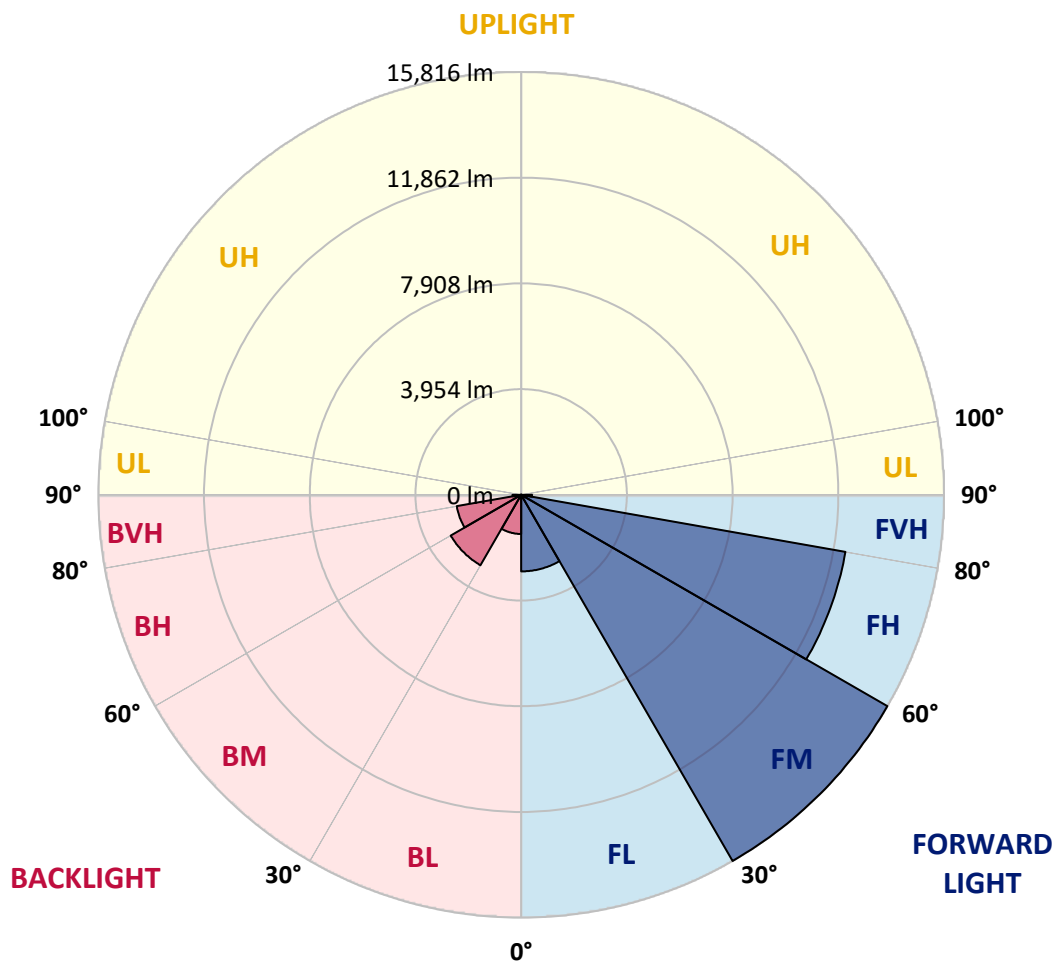
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2863.8  | 7.4       |                         |      |         |
| FM (30°-60°)   | 15815.9 | 40.9      |                         |      |         |
| FH (60°-80°)   | 12314.9 | 31.8      |                         |      | G5      |
| FVH (80°-90°)  | 408.2   | 1.1       |                         |      | G3/500  |
| BL (0°-30°)    | 1465.8  | 3.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3041.6  | 7.9       | B3/5000                 |      |         |
| BH (60°-80°)   | 2446.5  | 6.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 322.3   | 0.8       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  | 5427.9  |
| 2.5°  | 5959.3  | 5946.6  | 5944.1  | 5906.1  | 5885.9  | 5842.9  | 5741.7  | 5637.9  | 5541.8  | 5491.1  | 5438.0  |
| 5°    | 6457.8  | 6432.5  | 6419.8  | 6356.6  | 6300.9  | 6204.7  | 6045.3  | 5880.8  | 5708.8  | 5620.2  | 5513.9  |
| 7.5°  | 6758.9  | 6761.5  | 6761.5  | 6710.8  | 6655.2  | 6538.8  | 6336.3  | 6111.1  | 5855.5  | 5739.1  | 5572.1  |
| 10°   | 6784.2  | 6786.8  | 6824.7  | 6837.4  | 6850.0  | 6789.3  | 6602.0  | 6318.6  | 5989.7  | 5837.8  | 5620.2  |
| 12.5° | 6533.7  | 6551.4  | 6614.7  | 6705.8  | 6834.8  | 6900.6  | 6819.7  | 6541.3  | 6161.7  | 5977.0  | 5711.3  |
| 15°   | 6197.2  | 6214.9  | 6295.8  | 6435.0  | 6642.5  | 6862.7  | 6976.5  | 6796.9  | 6386.9  | 6169.3  | 5845.4  |
| 17.5° | 6032.7  | 6052.9  | 6108.6  | 6219.9  | 6422.4  | 6718.4  | 7060.0  | 7070.2  | 6652.6  | 6402.1  | 6004.8  |
| 20°   | 5954.2  | 5969.4  | 6040.3  | 6131.4  | 6285.7  | 6569.1  | 7067.6  | 7358.6  | 6969.0  | 6677.9  | 6199.7  |
| 22.5° | 6133.9  | 6139.0  | 6174.4  | 6225.0  | 6328.7  | 6546.4  | 7062.6  | 7657.2  | 7363.7  | 7024.6  | 6450.2  |
| 25°   | 6660.2  | 6627.3  | 6602.0  | 6538.8  | 6564.1  | 6718.4  | 7143.6  | 7976.1  | 7869.8  | 7480.1  | 6784.2  |
| 27.5° | 7282.7  | 7277.7  | 7211.9  | 7065.1  | 6971.5  | 7070.2  | 7373.8  | 8332.9  | 8489.8  | 8059.6  | 7222.0  |
| 30°   | 7976.1  | 7978.6  | 7910.3  | 7730.6  | 7540.8  | 7551.0  | 7740.7  | 8745.3  | 9231.2  | 8758.0  | 7761.0  |
| 32.5° | 8702.3  | 8747.9  | 8621.4  | 8441.7  | 8211.4  | 8138.0  | 8267.1  | 9243.9  | 10089.0 | 9582.9  | 8386.0  |
| 35°   | 9570.3  | 9577.9  | 9438.7  | 9175.5  | 8945.3  | 8828.9  | 8947.8  | 9866.4  | 11078.5 | 10552.1 | 9147.7  |
| 37.5° | 10471.1 | 10476.2 | 10332.0 | 9995.4  | 9704.4  | 9628.5  | 9760.1  | 10623.0 | 12126.1 | 11655.4 | 10043.5 |
| 40°   | 11207.5 | 11260.6 | 11146.8 | 10830.5 | 10536.9 | 10491.4 | 10681.2 | 11528.9 | 13464.7 | 12961.1 | 11108.8 |
| 42.5° | 12042.6 | 12103.3 | 11966.7 | 11637.7 | 11404.9 | 11389.7 | 11685.8 | 12561.3 | 14795.7 | 14471.8 | 12315.9 |
| 45°   | 12983.9 | 13069.9 | 12880.2 | 12510.7 | 12313.3 | 12647.4 | 12665.1 | 13705.1 | 16329.2 | 16162.2 | 13674.7 |
| 47.5° | 14011.3 | 14082.1 | 13927.8 | 13530.5 | 13315.4 | 13798.7 | 13624.1 | 14942.5 | 17986.7 | 17974.0 | 15144.9 |
| 50°   | 14803.3 | 14881.8 | 14897.0 | 14722.4 | 14497.1 | 14557.9 | 14676.8 | 16243.2 | 19639.1 | 19836.5 | 16665.8 |
| 52.5° | 14659.1 | 14735.0 | 15076.6 | 15534.6 | 15896.5 | 15739.6 | 15883.8 | 17624.8 | 21235.8 | 21653.3 | 18110.7 |
| 55°   | 13495.1 | 13535.6 | 14175.8 | 15263.9 | 16804.9 | 17554.0 | 17564.1 | 19127.9 | 22754.1 | 23338.6 | 19482.2 |
| 57.5° | 11397.3 | 11402.4 | 12234.9 | 13839.2 | 16276.1 | 18730.6 | 20216.0 | 21015.7 | 24338.2 | 25201.1 | 21182.7 |
| 60°   | 8064.6  | 8084.9  | 9054.1  | 11151.8 | 14380.7 | 18588.9 | 23067.9 | 24393.9 | 26172.8 | 27293.8 | 23374.1 |
| 62.5° | 4787.7  | 4833.2  | 5564.5  | 7247.3  | 10681.2 | 16767.0 | 24753.2 | 30403.8 | 28875.3 | 30363.3 | 26881.3 |
| 65°   | 3115.0  | 3153.0  | 3590.8  | 4435.9  | 6311.0  | 12199.5 | 24199.0 | 36223.9 | 33989.4 | 35191.4 | 31922.0 |
| 67.5° | 2398.9  | 2429.3  | 2773.4  | 3284.6  | 3871.6  | 6594.4  | 19348.1 | 37443.6 | 40214.4 | 40588.9 | 36175.8 |
| 69°   | 2107.9  | 2133.2  | 2386.2  | 2877.2  | 3259.3  | 4365.1  | 14418.7 | 35229.4 | 41770.7 | 41975.7 | 36228.9 |
| 70°   | 1953.5  | 1973.8  | 2211.6  | 2636.8  | 2993.6  | 3484.5  | 11035.4 | 32658.4 | 41201.3 | 41725.1 | 35183.8 |
| 72.5° | 1609.4  | 1627.1  | 1796.6  | 2123.1  | 2447.0  | 2482.4  | 4888.9  | 23847.3 | 34692.9 | 36368.1 | 29773.7 |
| 75°   | 1343.7  | 1353.8  | 1465.1  | 1703.0  | 1981.4  | 1976.3  | 2497.6  | 13507.7 | 21170.0 | 23166.6 | 18384.0 |
| 77.5° | 1121.0  | 1128.6  | 1202.0  | 1348.7  | 1563.8  | 1556.2  | 1758.7  | 5830.2  | 9347.6  | 9018.6  | 6328.7  |
| 80°   | 989.4   | 994.5   | 1032.4  | 1070.4  | 1207.0  | 1199.4  | 1303.2  | 2677.3  | 3803.3  | 3514.8  | 2393.8  |
| 82.5° | 751.6   | 761.7   | 954.0   | 971.7   | 936.3   | 903.4   | 908.4   | 1558.8  | 1948.5  | 1773.9  | 1285.5  |
| 85°   | 425.1   | 427.7   | 612.4   | 716.1   | 814.8   | 612.4   | 589.6   | 804.7   | 961.6   | 842.7   | 561.8   |
| 87.5° | 189.8   | 197.4   | 293.5   | 339.1   | 440.3   | 359.3   | 336.6   | 341.6   | 415.0   | 344.1   | 222.7   |
| 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°    | 5427.9  | 5427.9  | 5427.9 | 5427.9 | 5427.9 | 5427.9 | 5427.9 | 5427.9 | 5427.9 | 5427.9 | 5427.9 |
| 2.5°  | 5387.4  | 5344.4  | 5243.2 | 5139.4 | 5035.7 | 4969.9 | 4901.5 | 4838.3 | 4813.0 | 4810.4 | 4762.4 |
| 5°    | 5410.2  | 5309.0  | 5078.7 | 4825.6 | 4585.2 | 4398.0 | 4241.1 | 4139.9 | 4041.2 | 4023.5 | 3980.4 |
| 7.5°  | 5417.8  | 5253.3  | 4878.8 | 4473.9 | 4107.0 | 3848.9 | 3692.0 | 3623.7 | 3575.6 | 3562.9 | 3547.7 |
| 10°   | 5415.2  | 5182.4  | 4656.1 | 4101.9 | 3684.4 | 3489.5 | 3431.3 | 3446.5 | 3466.8 | 3476.9 | 3476.9 |
| 12.5° | 5455.7  | 5149.5  | 4433.4 | 3752.7 | 3411.1 | 3317.5 | 3363.0 | 3441.5 | 3502.2 | 3527.5 | 3532.6 |
| 15°   | 5529.1  | 5129.3  | 4187.9 | 3449.0 | 3218.8 | 3241.5 | 3352.9 | 3466.8 | 3552.8 | 3590.8 | 3600.9 |
| 17.5° | 5620.2  | 5101.5  | 3904.5 | 3198.5 | 3107.4 | 3185.9 | 3330.1 | 3474.4 | 3578.1 | 3626.2 | 3633.8 |
| 20°   | 5721.4  | 5061.0  | 3611.0 | 3011.3 | 3008.7 | 3107.4 | 3251.7 | 3413.6 | 3525.0 | 3578.1 | 3575.6 |
| 22.5° | 5858.1  | 5023.0  | 3337.7 | 2874.6 | 2899.9 | 2991.0 | 3110.0 | 3256.7 | 3360.5 | 3408.6 | 3398.4 |
| 25°   | 6040.3  | 4987.6  | 3092.3 | 2753.2 | 2775.9 | 2836.7 | 2920.2 | 3031.5 | 3104.9 | 3130.2 | 3112.5 |
| 27.5° | 6285.7  | 4959.7  | 2899.9 | 2641.8 | 2639.3 | 2667.1 | 2717.7 | 2778.5 | 2813.9 | 2806.3 | 2778.5 |
| 30°   | 6586.8  | 4931.9  | 2758.2 | 2543.1 | 2507.7 | 2505.2 | 2528.0 | 2563.4 | 2586.2 | 2540.6 | 2517.8 |
| 32.5° | 6923.4  | 4883.8  | 2631.7 | 2457.1 | 2393.8 | 2371.1 | 2381.2 | 2429.3 | 2522.9 | 2477.3 | 2459.6 |
| 35°   | 7320.7  | 4828.2  | 2505.2 | 2363.5 | 2315.4 | 2272.4 | 2280.0 | 2383.7 | 2667.1 | 2634.2 | 2616.5 |
| 37.5° | 7798.9  | 4777.6  | 2388.8 | 2262.3 | 2259.7 | 2206.6 | 2201.5 | 2325.5 | 2705.1 | 2634.2 | 2619.0 |
| 40°   | 8373.4  | 4767.4  | 2285.0 | 2150.9 | 2191.4 | 2171.2 | 2153.4 | 2229.4 | 2495.1 | 2350.8 | 2323.0 |
| 42.5° | 9066.7  | 4813.0  | 2209.1 | 2044.6 | 2113.0 | 2161.0 | 2128.1 | 2145.8 | 2254.7 | 2125.6 | 2102.8 |
| 45°   | 9876.5  | 4937.0  | 2153.4 | 1951.0 | 2029.4 | 2153.4 | 2115.5 | 2100.3 | 2118.0 | 2047.2 | 2032.0 |
| 47.5° | 10820.3 | 5157.1  | 2115.5 | 1872.6 | 1951.0 | 2133.2 | 2110.4 | 2080.1 | 2072.5 | 2032.0 | 2021.9 |
| 50°   | 11830.0 | 5453.2  | 2090.2 | 1801.7 | 1880.1 | 2097.8 | 2107.9 | 2064.9 | 2052.2 | 2034.5 | 2029.4 |
| 52.5° | 12832.1 | 5774.6  | 2059.8 | 1741.0 | 1821.9 | 2054.8 | 2110.4 | 2049.7 | 2032.0 | 2021.9 | 2016.8 |
| 55°   | 13829.1 | 6108.6  | 2004.1 | 1687.8 | 1778.9 | 2004.1 | 2107.9 | 2029.4 | 2009.2 | 2009.2 | 2009.2 |
| 57.5° | 15122.2 | 6617.2  | 1930.8 | 1644.8 | 1723.3 | 1938.3 | 2075.0 | 2006.7 | 1978.8 | 1981.4 | 1983.9 |
| 60°   | 16989.7 | 7470.0  | 1849.8 | 1596.7 | 1649.9 | 1862.4 | 2024.4 | 1966.2 | 1933.3 | 1943.4 | 1945.9 |
| 62.5° | 20109.7 | 8960.4  | 1738.4 | 1528.4 | 1574.0 | 1781.5 | 1958.6 | 1910.5 | 1880.1 | 1897.9 | 1900.4 |
| 65°   | 24269.9 | 10764.7 | 1591.7 | 1442.4 | 1495.5 | 1690.4 | 1875.1 | 1844.7 | 1811.8 | 1854.8 | 1852.3 |
| 67.5° | 26807.9 | 11293.5 | 1437.3 | 1351.3 | 1419.6 | 1594.2 | 1771.3 | 1758.7 | 1735.9 | 1811.8 | 1806.8 |
| 69°   | 25975.4 | 10337.0 | 1348.7 | 1293.1 | 1366.5 | 1528.4 | 1705.5 | 1700.5 | 1682.8 | 1756.2 | 1751.1 |
| 70°   | 24682.3 | 9443.8  | 1293.1 | 1255.1 | 1338.6 | 1487.9 | 1662.5 | 1662.5 | 1644.8 | 1708.1 | 1695.4 |
| 72.5° | 19826.3 | 7004.4  | 1164.0 | 1159.0 | 1242.5 | 1376.6 | 1546.1 | 1558.8 | 1548.7 | 1571.4 | 1558.8 |
| 75°   | 11640.2 | 4220.8  | 1037.5 | 1052.7 | 1126.1 | 1257.7 | 1417.1 | 1427.2 | 1417.1 | 1414.5 | 1417.1 |
| 77.5° | 4036.1  | 1892.8  | 916.0  | 938.8  | 1002.1 | 1136.2 | 1275.4 | 1295.6 | 1280.4 | 1262.7 | 1267.8 |
| 80°   | 1579.0  | 1100.8  | 784.4  | 817.3  | 870.5  | 999.5  | 1133.7 | 1146.3 | 1123.5 | 1121.0 | 1100.8 |
| 82.5° | 948.9   | 670.6   | 609.8  | 663.0  | 728.8  | 868.0  | 979.3  | 974.2  | 956.5  | 1060.3 | 928.7  |
| 85°   | 412.5   | 372.0   | 445.4  | 498.5  | 531.4  | 650.3  | 827.5  | 804.7  | 761.7  | 670.6  | 655.4  |
| 87.5° | 167.0   | 192.3   | 245.5  | 296.1  | 318.8  | 420.1  | 566.8  | 546.6  | 554.2  | 455.5  | 453.0  |
| 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)