

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: P960867

Luminaire Tested: **NVN-SB1D-735-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-735-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8456.3 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

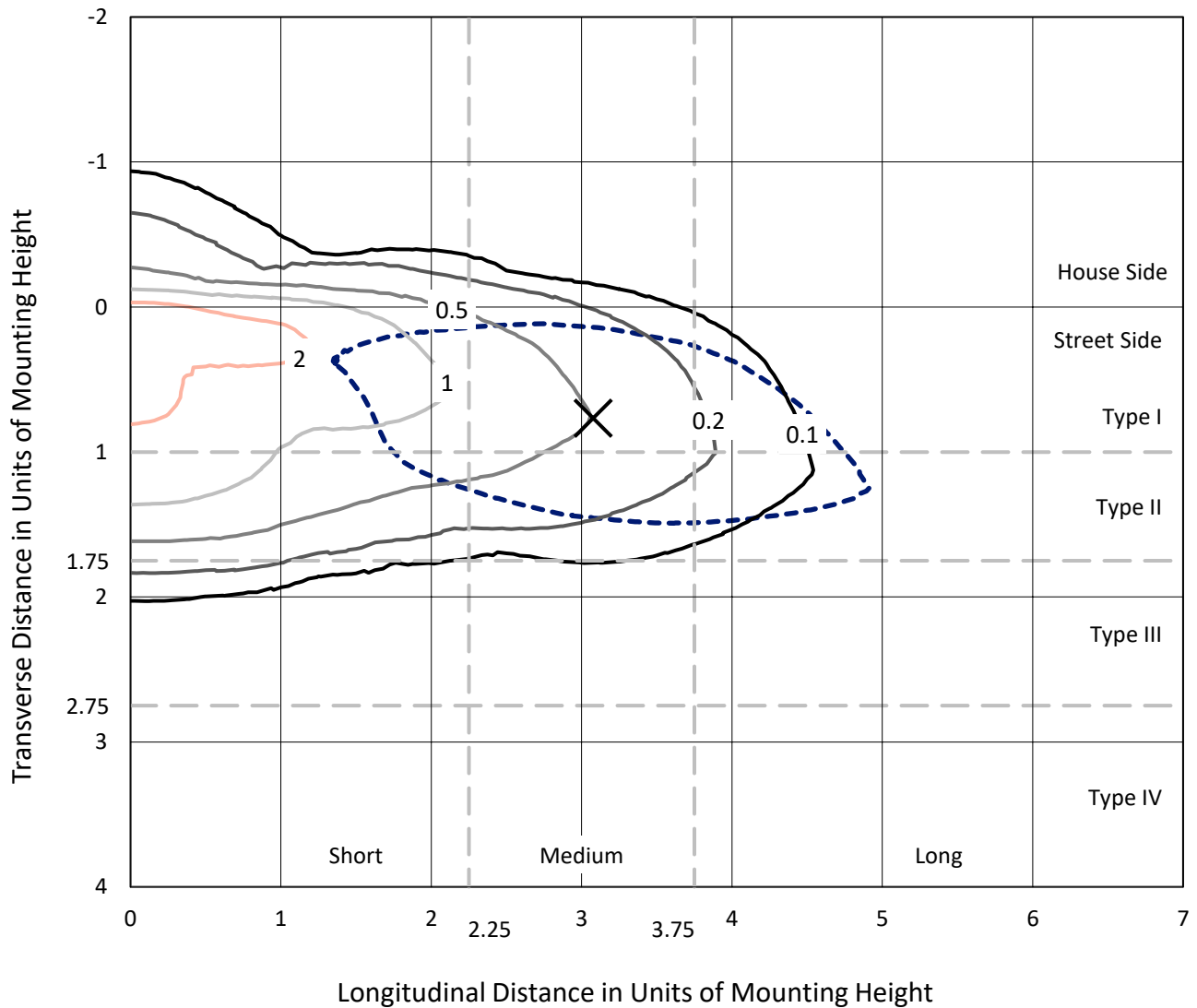
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

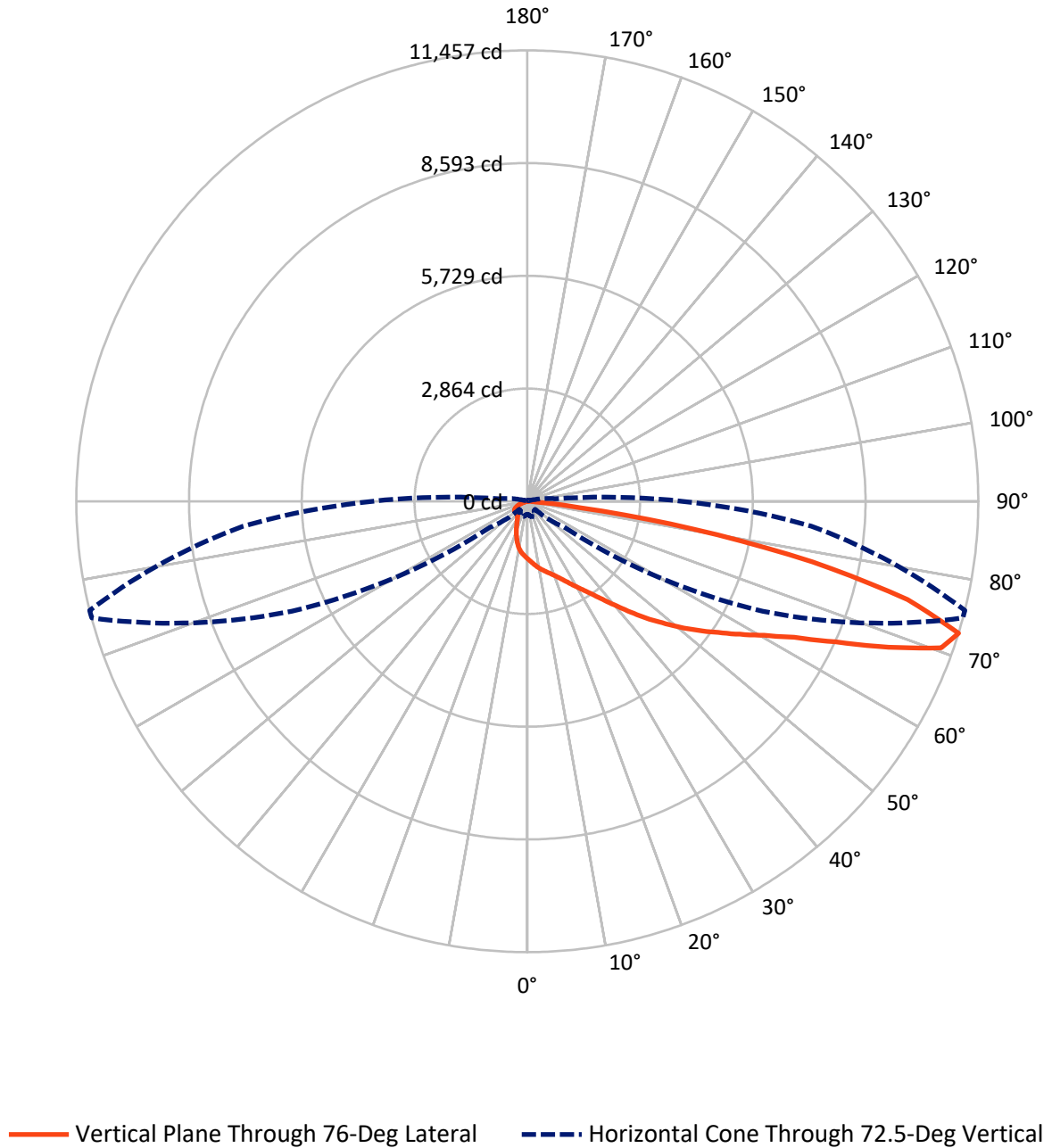
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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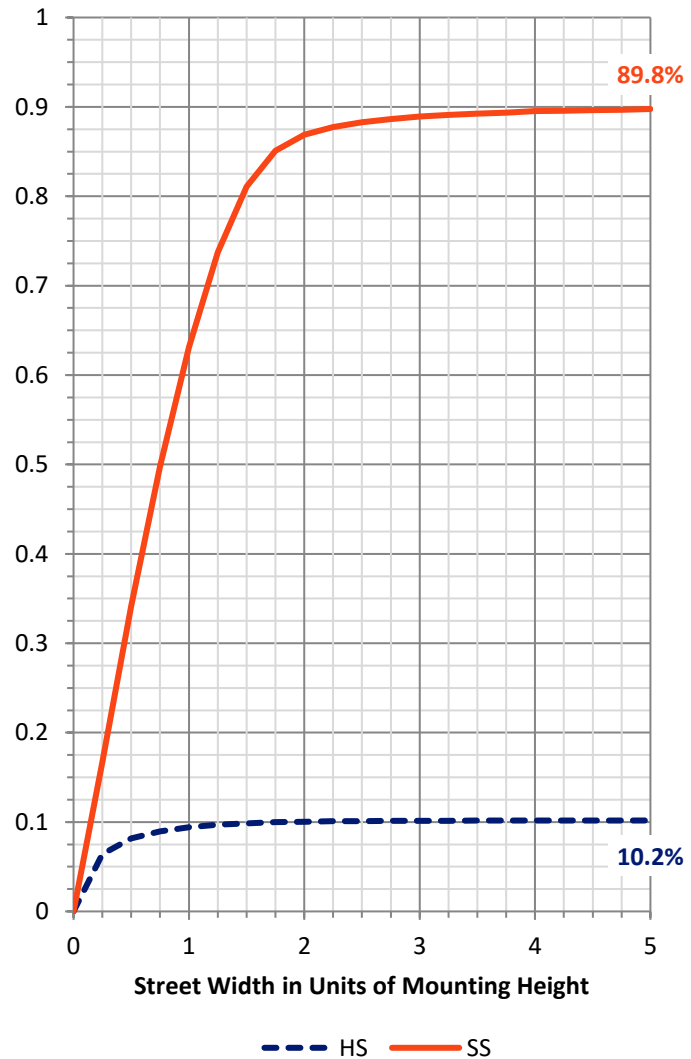
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 865.5 | 0.0 | 865.5 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 7590.8 | 0.0 | 7590.8 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 8456.3 | 0.0 | 8456.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.9 | 1.6 |
| 10°-20° | 356.4 | 4.2 |
| 20°-30° | 564.0 | 6.7 |
| 30°-40° | 872.6 | 10.3 |
| 40°-50° | 1325.4 | 15.7 |
| 50°-60° | 1827.2 | 21.6 |
| 60°-70° | 1930.3 | 22.8 |
| 70°-80° | 1324.2 | 15.7 |
| 80°-90° | 123.2 | 1.5 |
| 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° | 8456.3 | 100.0 |
| 0°-180° | 8456.3 | 100.0 |

Coefficient of Utilization



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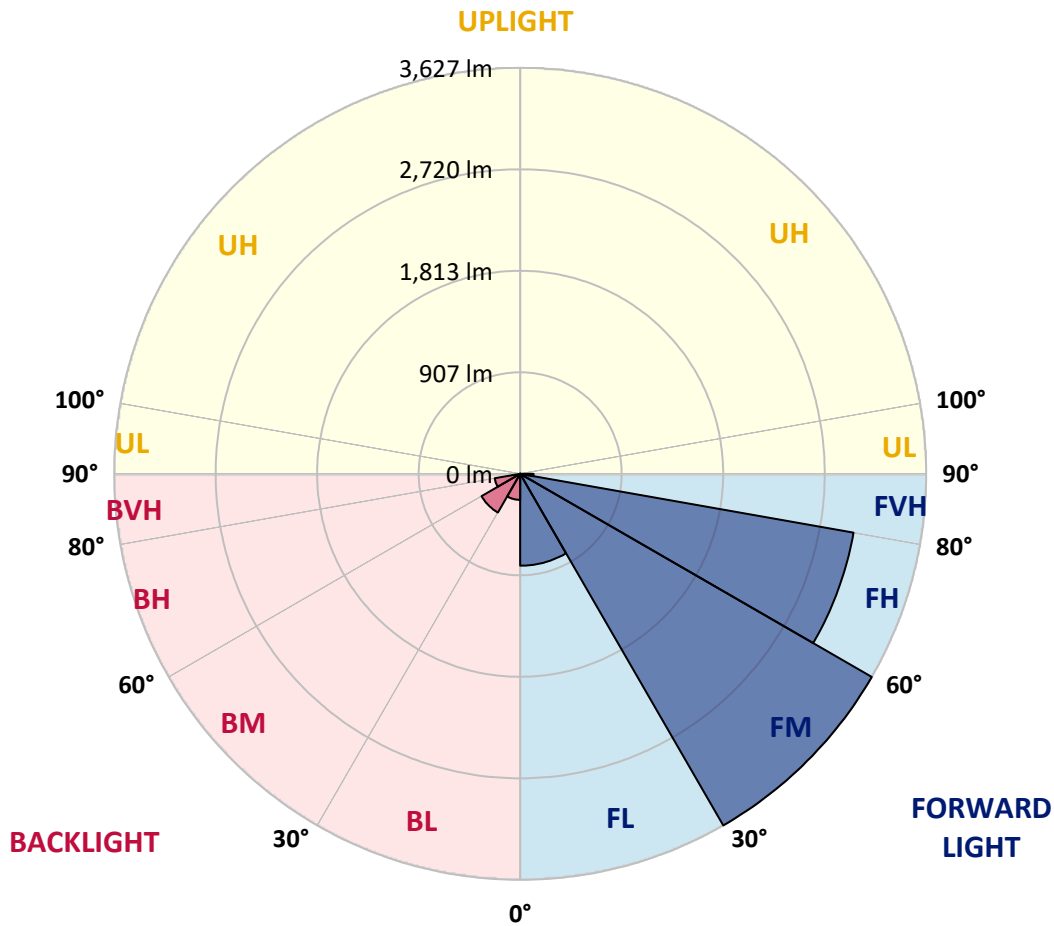
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 820.7 | 9.7 | | | |
| FM (30°-60°) | 3626.7 | 42.9 | | | |
| FH (60°-80°) | 3023.5 | 35.8 | | | G2/5000 |
| FVH (80°-90°) | 119.9 | 1.4 | | | G2/225 |
| BL (0°-30°) | 232.6 | 2.8 | B1/500 | | |
| BM (30°-60°) | 398.5 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 231.0 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 |
| 2.5° | 1698.8 | 1676.4 | 1680.7 | 1658.2 | 1647.8 | 1622.6 | 1596.2 | 1561.7 | 1523.3 | 1523.3 | 1486.0 |
| 5° | 1877.7 | 1863.3 | 1863.3 | 1837.1 | 1816.8 | 1777.2 | 1730.1 | 1669.2 | 1596.8 | 1589.7 | 1518.9 |
| 7.5° | 1987.4 | 1978.6 | 1984.1 | 1968.7 | 1952.2 | 1911.1 | 1855.1 | 1775.6 | 1673.0 | 1664.3 | 1557.9 |
| 10° | 2008.8 | 2008.2 | 2023.6 | 2028.0 | 2038.9 | 2018.1 | 1968.2 | 1876.6 | 1748.2 | 1735.6 | 1591.3 |
| 12.5° | 1926.0 | 1915.5 | 1953.3 | 1997.8 | 2060.4 | 2088.3 | 2062.5 | 1968.7 | 1816.8 | 1799.2 | 1622.6 |
| 15° | 1789.9 | 1792.1 | 1828.3 | 1896.9 | 2001.1 | 2100.9 | 2134.4 | 2058.7 | 1886.4 | 1865.6 | 1652.2 |
| 17.5° | 1712.0 | 1703.8 | 1735.0 | 1796.5 | 1911.6 | 2052.7 | 2167.9 | 2142.6 | 1960.5 | 1936.9 | 1682.3 |
| 20° | 1702.6 | 1702.1 | 1709.3 | 1737.3 | 1825.0 | 1983.5 | 2164.0 | 2224.4 | 2047.7 | 2020.3 | 1725.7 |
| 22.5° | 1767.4 | 1766.3 | 1760.2 | 1754.8 | 1778.9 | 1916.0 | 2147.6 | 2302.3 | 2151.9 | 2122.3 | 1787.2 |
| 25° | 1866.7 | 1865.1 | 1855.8 | 1822.2 | 1798.7 | 1879.8 | 2132.2 | 2374.6 | 2275.4 | 2242.4 | 1861.7 |
| 27.5° | 1987.9 | 1986.9 | 1969.8 | 1919.3 | 1858.4 | 1883.1 | 2124.5 | 2449.2 | 2418.0 | 2385.6 | 1947.9 |
| 30° | 2136.6 | 2134.4 | 2099.3 | 2028.0 | 1948.4 | 1935.3 | 2135.0 | 2533.2 | 2566.6 | 2541.9 | 2047.1 |
| 32.5° | 2323.1 | 2317.0 | 2271.0 | 2163.5 | 2052.0 | 2004.9 | 2154.7 | 2619.3 | 2742.7 | 2719.6 | 2179.9 |
| 35° | 2467.4 | 2458.1 | 2431.1 | 2336.3 | 2172.2 | 2090.5 | 2200.8 | 2721.3 | 2954.5 | 2934.2 | 2349.4 |
| 37.5° | 2591.3 | 2582.0 | 2560.0 | 2482.1 | 2344.5 | 2199.6 | 2274.8 | 2857.4 | 3204.6 | 3194.7 | 2556.2 |
| 40° | 2725.2 | 2709.8 | 2699.3 | 2616.0 | 2491.5 | 2357.1 | 2380.7 | 3016.5 | 3492.6 | 3493.6 | 2804.7 |
| 42.5° | 2828.3 | 2822.2 | 2823.4 | 2759.2 | 2633.5 | 2543.5 | 2521.1 | 3195.8 | 3837.6 | 3848.1 | 3103.6 |
| 45° | 2916.6 | 2911.6 | 2931.9 | 2887.0 | 2776.7 | 2665.9 | 2685.7 | 3398.8 | 4215.0 | 4236.4 | 3438.3 |
| 47.5° | 2984.6 | 2990.1 | 3019.1 | 2990.1 | 2925.4 | 2752.0 | 2831.6 | 3617.6 | 4611.6 | 4614.3 | 3783.8 |
| 50° | 3052.7 | 3054.8 | 3103.1 | 3088.8 | 3062.5 | 2861.2 | 2965.9 | 3862.3 | 5029.6 | 5034.5 | 4107.0 |
| 52.5° | 3074.0 | 3070.7 | 3147.6 | 3182.6 | 3183.8 | 2996.2 | 3139.9 | 4128.9 | 5439.4 | 5455.3 | 4439.4 |
| 55° | 2964.3 | 2973.6 | 3097.7 | 3240.2 | 3296.7 | 3182.6 | 3374.6 | 4466.2 | 5876.0 | 5882.6 | 4768.5 |
| 57.5° | 2427.8 | 2479.4 | 2753.7 | 3084.4 | 3369.7 | 3449.7 | 3711.9 | 4860.7 | 6380.1 | 6374.1 | 5101.9 |
| 60° | 1473.3 | 1534.8 | 1862.8 | 2586.9 | 3131.6 | 3718.0 | 4209.0 | 5471.7 | 6930.8 | 6913.8 | 5439.4 |
| 62.5° | 823.9 | 842.6 | 947.3 | 1548.6 | 2381.8 | 3547.4 | 4694.4 | 6256.7 | 7670.3 | 7612.7 | 5771.2 |
| 65° | 607.2 | 613.3 | 638.0 | 758.6 | 1170.6 | 2728.4 | 4588.0 | 7195.2 | 8709.2 | 8606.6 | 6168.9 |
| 67.5° | 527.7 | 533.7 | 557.9 | 574.3 | 522.8 | 1433.4 | 3780.0 | 7715.8 | 10028.4 | 9894.0 | 6707.0 |
| 70° | 444.3 | 447.6 | 486.6 | 497.5 | 374.1 | 545.3 | 2428.4 | 7555.1 | 11249.5 | 11153.5 | 7284.7 |
| 72.5° | 331.3 | 344.5 | 401.0 | 427.3 | 300.0 | 289.7 | 1143.2 | 6605.5 | 11456.3 | 11457.3 | 7245.7 |
| 75° | 224.9 | 237.0 | 301.7 | 351.6 | 231.4 | 203.0 | 461.4 | 4932.5 | 9975.8 | 9975.8 | 6351.5 |
| 77.5° | 153.5 | 163.5 | 210.1 | 275.9 | 175.6 | 139.3 | 239.1 | 3130.6 | 7156.9 | 7408.6 | 4527.1 |
| 80° | 68.1 | 74.0 | 135.5 | 200.2 | 133.2 | 90.0 | 135.5 | 1714.2 | 4328.0 | 4274.8 | 1774.5 |
| 82.5° | 33.4 | 38.4 | 86.7 | 125.0 | 86.1 | 55.5 | 71.3 | 815.2 | 1402.6 | 1332.9 | 277.1 |
| 85° | 6.6 | 8.8 | 46.6 | 53.2 | 40.1 | 24.7 | 26.9 | 250.7 | 168.9 | 193.1 | 58.7 |
| 87.5° | 0.0 | 0.0 | 14.2 | 9.8 | 4.4 | 5.5 | 5.5 | 22.4 | 13.1 | 15.4 | 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° | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 | 1461.3 |
| 2.5° | 1466.3 | 1446.0 | 1401.5 | 1357.6 | 1312.6 | 1271.5 | 1243.0 | 1214.4 | 1196.9 | 1189.2 | 1190.3 |
| 5° | 1477.7 | 1436.6 | 1343.4 | 1245.8 | 1149.2 | 1054.8 | 984.1 | 917.7 | 896.9 | 862.3 | 864.5 |
| 7.5° | 1495.9 | 1429.0 | 1282.0 | 1117.4 | 960.5 | 822.3 | 722.4 | 642.9 | 611.1 | 580.4 | 579.8 |
| 10° | 1508.0 | 1414.7 | 1200.8 | 980.8 | 768.5 | 613.3 | 517.8 | 460.2 | 439.4 | 420.8 | 420.1 |
| 12.5° | 1512.9 | 1388.4 | 1107.5 | 827.8 | 597.9 | 467.4 | 410.3 | 383.5 | 376.3 | 369.7 | 369.7 |
| 15° | 1517.3 | 1362.5 | 1003.3 | 680.2 | 472.3 | 391.1 | 368.6 | 359.9 | 354.9 | 350.5 | 350.5 |
| 17.5° | 1521.1 | 1329.6 | 884.3 | 552.9 | 398.8 | 360.4 | 349.4 | 340.1 | 336.3 | 331.3 | 331.3 |
| 20° | 1534.2 | 1297.9 | 777.9 | 456.4 | 358.7 | 338.5 | 326.4 | 316.5 | 313.2 | 310.0 | 310.5 |
| 22.5° | 1558.9 | 1272.0 | 674.7 | 391.1 | 334.6 | 316.0 | 300.6 | 289.7 | 287.4 | 285.3 | 283.6 |
| 25° | 1588.5 | 1240.2 | 577.6 | 348.9 | 311.0 | 290.2 | 273.2 | 263.8 | 261.7 | 262.2 | 261.1 |
| 27.5° | 1626.5 | 1205.2 | 494.3 | 322.0 | 290.2 | 266.1 | 246.8 | 239.7 | 240.8 | 243.0 | 241.9 |
| 30° | 1668.1 | 1172.8 | 429.0 | 303.3 | 271.5 | 244.7 | 225.5 | 220.5 | 224.4 | 227.7 | 226.5 |
| 32.5° | 1730.1 | 1144.2 | 383.5 | 288.5 | 255.1 | 227.1 | 211.8 | 205.7 | 210.1 | 214.4 | 213.4 |
| 35° | 1814.6 | 1130.0 | 357.6 | 275.9 | 240.8 | 213.4 | 198.0 | 193.6 | 198.0 | 199.2 | 198.5 |
| 37.5° | 1918.3 | 1128.9 | 346.7 | 265.5 | 227.7 | 201.8 | 184.8 | 183.2 | 186.5 | 187.1 | 185.9 |
| 40° | 2052.0 | 1136.0 | 338.5 | 257.8 | 213.9 | 188.7 | 172.8 | 171.2 | 172.2 | 176.1 | 175.6 |
| 42.5° | 2221.6 | 1165.6 | 327.0 | 247.9 | 199.2 | 175.6 | 162.9 | 159.1 | 158.6 | 162.9 | 162.4 |
| 45° | 2434.4 | 1230.9 | 311.6 | 232.1 | 185.9 | 164.5 | 151.9 | 147.6 | 146.0 | 147.0 | 148.6 |
| 47.5° | 2666.4 | 1311.0 | 296.2 | 217.2 | 176.6 | 155.8 | 143.2 | 137.7 | 134.9 | 134.9 | 134.9 |
| 50° | 2891.3 | 1401.5 | 285.8 | 201.8 | 170.0 | 147.6 | 133.9 | 128.3 | 123.9 | 122.9 | 122.3 |
| 52.5° | 3114.1 | 1490.4 | 277.6 | 186.5 | 162.4 | 137.1 | 125.0 | 119.0 | 114.1 | 111.9 | 110.8 |
| 55° | 3317.0 | 1574.9 | 263.3 | 171.7 | 152.5 | 126.2 | 116.3 | 110.3 | 104.2 | 100.3 | 98.7 |
| 57.5° | 3511.8 | 1645.1 | 237.0 | 156.3 | 137.1 | 115.7 | 107.0 | 100.3 | 93.3 | 88.4 | 86.1 |
| 60° | 3689.0 | 1681.3 | 204.1 | 139.9 | 121.8 | 104.8 | 96.6 | 90.5 | 81.2 | 73.0 | 70.7 |
| 62.5° | 3823.9 | 1667.1 | 168.4 | 121.3 | 105.9 | 94.9 | 84.5 | 78.4 | 67.4 | 57.6 | 53.7 |
| 65° | 3962.1 | 1589.2 | 134.4 | 101.5 | 92.7 | 81.7 | 70.7 | 64.7 | 52.1 | 41.7 | 38.9 |
| 67.5° | 4141.5 | 1422.9 | 105.9 | 84.5 | 80.1 | 64.7 | 55.5 | 51.6 | 42.7 | 32.9 | 30.7 |
| 70° | 4256.7 | 1105.4 | 82.3 | 68.6 | 65.8 | 47.2 | 42.7 | 42.2 | 34.0 | 25.2 | 22.4 |
| 72.5° | 3940.7 | 724.6 | 63.0 | 52.1 | 47.2 | 30.7 | 32.9 | 32.9 | 24.7 | 17.0 | 14.8 |
| 75° | 3289.6 | 424.0 | 45.5 | 37.3 | 26.9 | 19.8 | 22.4 | 22.4 | 15.4 | 8.2 | 6.6 |
| 77.5° | 2349.4 | 226.0 | 30.1 | 23.1 | 13.7 | 8.8 | 12.1 | 11.5 | 4.9 | 0.5 | 0.0 |
| 80° | 898.5 | 77.9 | 14.2 | 9.3 | 3.8 | 1.6 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 |
| 82.5° | 137.1 | 20.3 | 2.8 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 24.7 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)