

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: P884776

Luminaire Tested: **NVN-SB5D-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884776
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-SB5D-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 37117 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

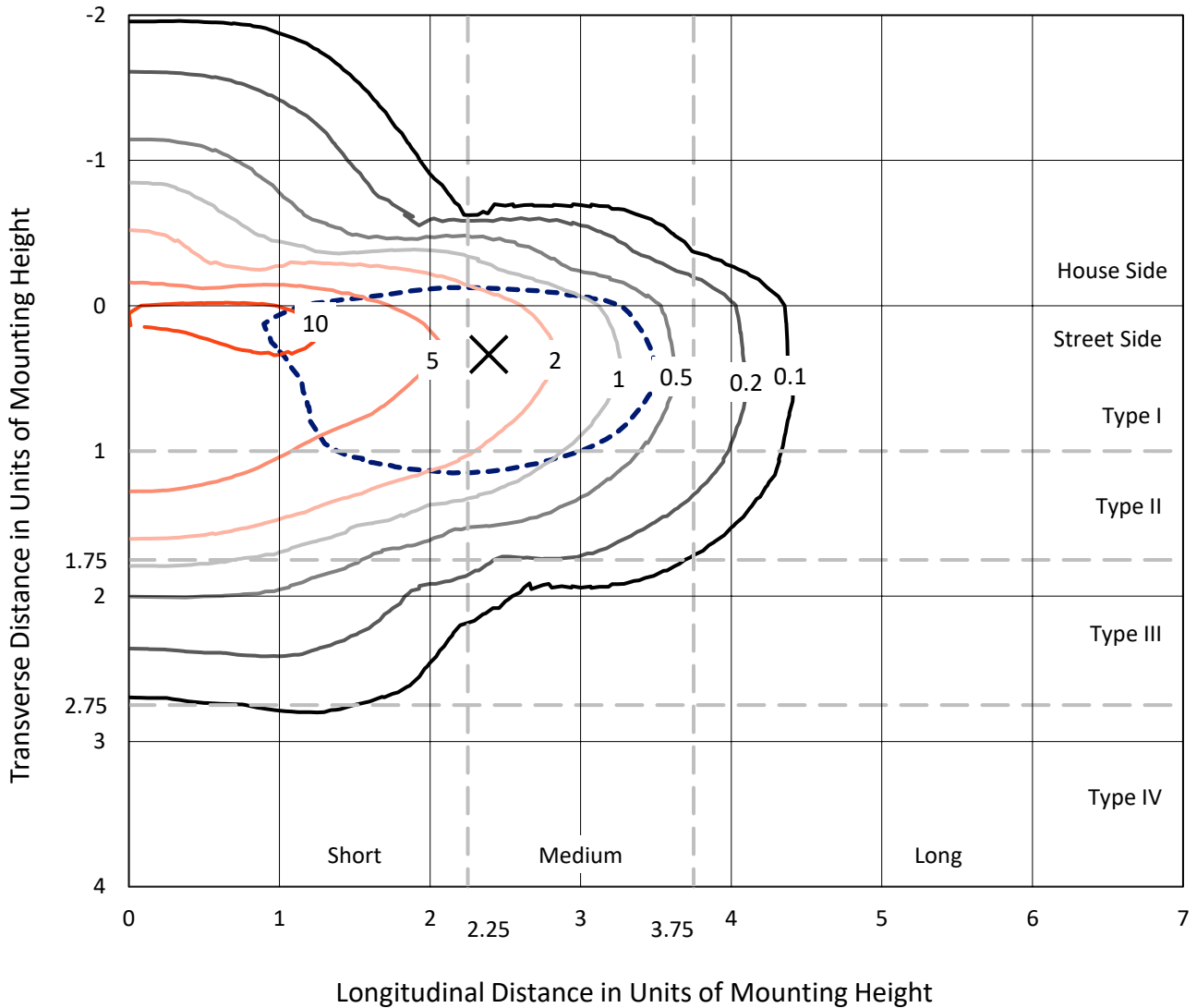
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

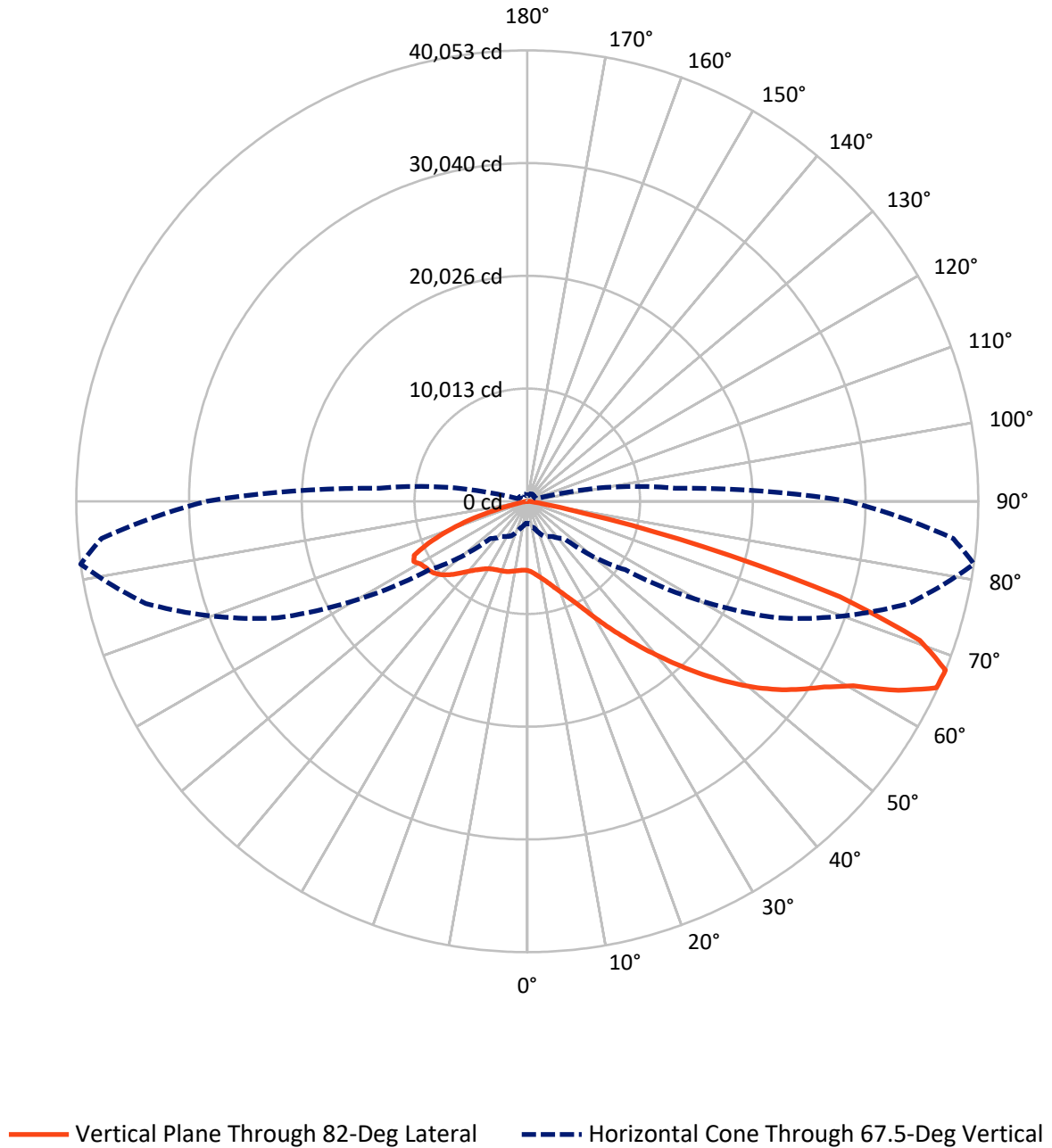
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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 | 6723.4 | 0.0 | 6723.4 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 30393.6 | 0.0 | 30393.6 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 37117.0 | 0.0 | 37117.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 547.8 | 1.5 |
| 10°-20° | 1423.6 | 3.8 |
| 20°-30° | 2280.2 | 6.1 |
| 30°-40° | 4032.0 | 10.9 |
| 40°-50° | 7064.5 | 19.0 |
| 50°-60° | 9422.0 | 25.4 |
| 60°-70° | 8771.4 | 23.6 |
| 70°-80° | 3366.5 | 9.1 |
| 80°-90° | 209.1 | 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° | 37117.0 | 100.0 |
| 0°-180° | 37117.0 | 100.0 |

Coefficient of Utilization



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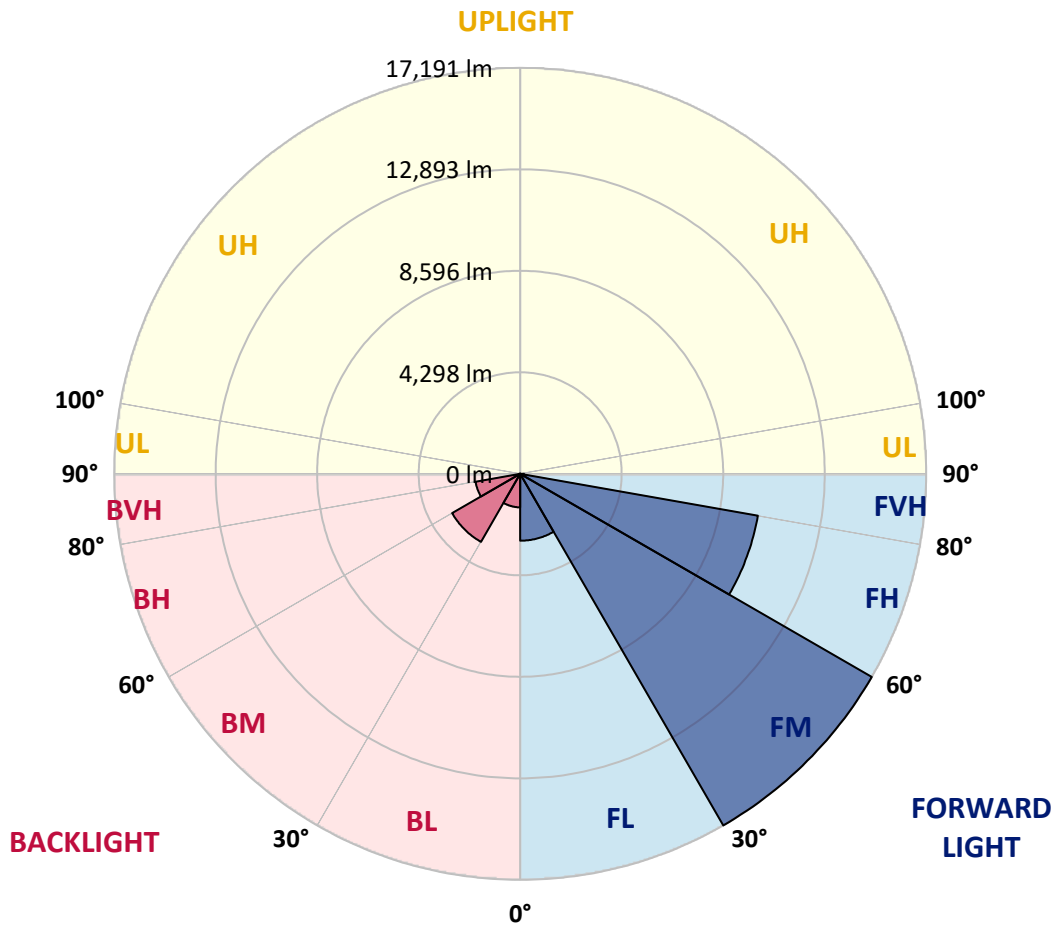
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2831.6 | 7.6 | | | |
| FM (30°-60°) | 17191.1 | 46.3 | | | |
| FH (60°-80°) | 10218.9 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 152.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1420.0 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 3327.4 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1919.0 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 57.1 | 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° | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 |
| 2.5° | 6499.1 | 6536.5 | 6515.1 | 6504.5 | 6485.7 | 6459.0 | 6437.6 | 6370.8 | 6301.4 | 6255.9 | 6239.9 |
| 5° | 6630.1 | 6667.5 | 6664.8 | 6675.5 | 6688.8 | 6696.9 | 6691.5 | 6616.7 | 6517.8 | 6440.3 | 6394.9 |
| 7.5° | 6517.8 | 6560.6 | 6595.3 | 6648.8 | 6742.3 | 6841.2 | 6889.3 | 6873.2 | 6771.7 | 6664.8 | 6608.7 |
| 10° | 6199.8 | 6245.2 | 6328.1 | 6453.7 | 6651.4 | 6865.2 | 7044.3 | 7127.1 | 7063.0 | 6945.4 | 6867.9 |
| 12.5° | 5617.2 | 5662.7 | 5825.7 | 6098.3 | 6429.6 | 6801.1 | 7143.1 | 7364.9 | 7381.0 | 7263.4 | 7172.5 |
| 15° | 4962.5 | 5007.9 | 5181.6 | 5523.7 | 6028.8 | 6624.7 | 7196.6 | 7616.1 | 7757.8 | 7656.2 | 7546.7 |
| 17.5° | 4556.3 | 4596.4 | 4727.4 | 5002.6 | 5529.1 | 6272.0 | 7177.9 | 7883.4 | 8206.7 | 8126.6 | 7995.6 |
| 20° | 4433.4 | 4468.1 | 4529.6 | 4722.0 | 5160.3 | 5905.8 | 7055.0 | 8134.6 | 8690.4 | 8645.0 | 8498.0 |
| 22.5° | 4564.3 | 4596.4 | 4615.1 | 4700.6 | 4975.9 | 5665.3 | 6900.0 | 8391.1 | 9251.6 | 9257.0 | 9077.9 |
| 25° | 4866.3 | 4898.4 | 4877.0 | 4930.4 | 5050.7 | 5590.5 | 6841.2 | 8693.1 | 9957.1 | 10015.9 | 9812.8 |
| 27.5° | 5363.4 | 5366.0 | 5315.3 | 5312.6 | 5331.3 | 5702.8 | 6902.6 | 9016.4 | 10847.0 | 10956.6 | 10705.4 |
| 30° | 6360.1 | 6320.1 | 6125.0 | 5913.9 | 5817.7 | 6039.5 | 7073.7 | 9398.6 | 11897.2 | 12092.3 | 11777.0 |
| 32.5° | 7896.7 | 7837.9 | 7479.9 | 6974.8 | 6467.0 | 6581.9 | 7381.0 | 9834.2 | 13041.0 | 13393.7 | 13008.9 |
| 35° | 9564.3 | 9548.2 | 9174.1 | 8423.2 | 7536.0 | 7354.3 | 7880.7 | 10406.1 | 14288.9 | 14850.1 | 14393.2 |
| 37.5° | 11114.2 | 11106.2 | 10892.4 | 10007.9 | 8928.3 | 8431.2 | 8682.4 | 11154.3 | 15625.1 | 16437.5 | 15897.7 |
| 40° | 12530.6 | 12554.6 | 12340.8 | 11549.8 | 10462.2 | 9812.8 | 9772.7 | 12078.9 | 17110.9 | 18166.5 | 17525.1 |
| 42.5° | 13754.5 | 13781.2 | 13564.7 | 12979.5 | 11977.4 | 11341.4 | 11111.5 | 13212.0 | 18562.0 | 20023.8 | 19264.8 |
| 45° | 14585.6 | 14751.3 | 14719.2 | 14251.5 | 13532.7 | 12872.6 | 12720.3 | 14633.7 | 20216.2 | 21993.3 | 21103.4 |
| 47.5° | 14820.7 | 14973.1 | 15213.6 | 15277.7 | 14839.4 | 14190.1 | 14371.8 | 16346.6 | 21889.1 | 23965.5 | 22952.6 |
| 50° | 14240.8 | 14382.5 | 14882.2 | 15547.6 | 15852.3 | 15651.8 | 15977.9 | 18182.5 | 23602.0 | 25932.3 | 24767.2 |
| 52.5° | 13097.1 | 13241.4 | 13872.1 | 14925.0 | 16167.6 | 16798.3 | 17589.3 | 19991.7 | 25261.5 | 27794.9 | 26485.5 |
| 55° | 11442.9 | 11595.2 | 12405.0 | 13596.8 | 15566.3 | 17271.3 | 18933.5 | 21798.2 | 26782.1 | 29470.5 | 28035.4 |
| 57.5° | 9192.8 | 9305.1 | 10146.8 | 11814.4 | 14053.8 | 16800.9 | 19924.9 | 23770.4 | 28214.5 | 31116.6 | 29572.0 |
| 60° | 5991.4 | 6090.2 | 7068.3 | 8928.3 | 11547.1 | 15229.6 | 20122.6 | 25969.7 | 30117.2 | 33257.1 | 31643.1 |
| 62.5° | 3984.4 | 4051.3 | 4631.1 | 5996.7 | 8131.9 | 12212.5 | 18965.5 | 27725.4 | 32907.1 | 36982.4 | 35194.6 |
| 65° | 2733.8 | 2800.6 | 3380.5 | 4331.8 | 5253.8 | 8078.5 | 15638.5 | 27492.9 | 35435.1 | 39940.6 | 37826.8 |
| 67.5° | 1950.8 | 2006.9 | 2498.6 | 3396.5 | 3802.7 | 4692.6 | 10601.1 | 24521.3 | 35071.7 | 40052.9 | 37968.5 |
| 70° | 1397.6 | 1429.7 | 1835.9 | 2645.6 | 3022.4 | 2819.3 | 5895.2 | 18754.4 | 30707.7 | 36985.0 | 35077.0 |
| 72.5° | 978.1 | 988.8 | 1274.7 | 2014.9 | 2434.5 | 2057.7 | 2805.9 | 12503.8 | 23225.2 | 29029.5 | 27193.6 |
| 75° | 662.7 | 676.1 | 857.8 | 1477.8 | 1953.5 | 1571.3 | 1485.8 | 6704.9 | 13634.2 | 16068.7 | 14403.9 |
| 77.5° | 406.2 | 411.5 | 553.2 | 1010.1 | 1461.8 | 1197.2 | 956.7 | 2840.7 | 5275.2 | 5179.0 | 4414.7 |
| 80° | 229.8 | 229.8 | 352.7 | 628.0 | 996.8 | 772.3 | 670.8 | 1207.9 | 1670.2 | 1467.1 | 1293.4 |
| 82.5° | 128.3 | 130.9 | 256.5 | 390.2 | 660.1 | 457.0 | 368.8 | 558.5 | 721.5 | 638.7 | 555.8 |
| 85° | 53.4 | 58.8 | 157.7 | 184.4 | 315.3 | 227.1 | 149.7 | 235.2 | 267.2 | 237.8 | 173.7 |
| 87.5° | 5.3 | 8.0 | 48.1 | 34.7 | 37.4 | 45.4 | 21.4 | 45.4 | 37.4 | 37.4 | 26.7 |
| 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° | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 | 6149.0 |
| 2.5° | 6189.1 | 6149.0 | 6047.5 | 5929.9 | 5774.9 | 5700.1 | 5598.5 | 5529.1 | 5470.3 | 5475.6 | 5422.2 |
| 5° | 6309.4 | 6207.8 | 5980.7 | 5697.4 | 5344.7 | 5093.5 | 4826.2 | 4641.8 | 4492.2 | 4460.1 | 4388.0 |
| 7.5° | 6475.1 | 6314.7 | 5916.5 | 5406.1 | 4810.2 | 4358.6 | 3955.0 | 3695.8 | 3511.4 | 3452.7 | 3393.9 |
| 10° | 6688.8 | 6456.3 | 5833.7 | 5040.0 | 4182.2 | 3607.6 | 3174.7 | 2971.6 | 2846.0 | 2803.3 | 2771.2 |
| 12.5° | 6937.4 | 6619.4 | 5724.1 | 4593.7 | 3535.5 | 2982.3 | 2707.1 | 2605.5 | 2565.4 | 2552.1 | 2544.1 |
| 15° | 7250.0 | 6822.5 | 5558.4 | 4064.6 | 2987.7 | 2600.2 | 2482.6 | 2469.2 | 2474.6 | 2469.2 | 2466.6 |
| 17.5° | 7621.5 | 7044.3 | 5288.5 | 3519.5 | 2618.9 | 2405.1 | 2362.3 | 2373.0 | 2386.4 | 2383.7 | 2378.4 |
| 20° | 8027.7 | 7263.4 | 4943.8 | 3035.8 | 2367.7 | 2266.1 | 2242.1 | 2252.8 | 2263.5 | 2258.1 | 2255.4 |
| 22.5° | 8490.0 | 7498.6 | 4561.7 | 2659.0 | 2199.3 | 2137.9 | 2111.1 | 2113.8 | 2113.8 | 2103.1 | 2097.8 |
| 25° | 9043.2 | 7757.8 | 4160.8 | 2391.7 | 2071.1 | 2023.0 | 1990.9 | 1980.2 | 1964.2 | 1932.1 | 1926.7 |
| 27.5° | 9703.2 | 8033.0 | 3776.0 | 2204.7 | 1969.5 | 1924.1 | 1886.7 | 1859.9 | 1819.9 | 1766.4 | 1761.1 |
| 30° | 10446.1 | 8367.1 | 3450.0 | 2087.1 | 1889.3 | 1843.9 | 1801.2 | 1761.1 | 1702.3 | 1635.5 | 1630.1 |
| 32.5° | 11320.0 | 8725.2 | 3212.1 | 2009.6 | 1817.2 | 1769.1 | 1718.3 | 1670.2 | 1606.1 | 1539.3 | 1541.9 |
| 35° | 12362.2 | 9158.1 | 3073.2 | 1956.1 | 1761.1 | 1696.9 | 1640.8 | 1587.4 | 1539.3 | 1480.5 | 1475.1 |
| 37.5° | 13492.6 | 9617.7 | 3030.4 | 1929.4 | 1723.7 | 1624.8 | 1560.6 | 1523.2 | 1517.9 | 1483.1 | 1480.5 |
| 40° | 14729.9 | 10162.9 | 3062.5 | 1913.4 | 1683.6 | 1555.3 | 1485.8 | 1477.8 | 1491.2 | 1429.7 | 1432.4 |
| 42.5° | 16039.3 | 10809.6 | 3115.9 | 1894.7 | 1627.4 | 1485.8 | 1419.0 | 1419.0 | 1408.3 | 1322.8 | 1322.8 |
| 45° | 17455.7 | 11555.2 | 3169.4 | 1849.3 | 1560.6 | 1416.3 | 1365.6 | 1346.9 | 1301.4 | 1218.6 | 1215.9 |
| 47.5° | 18882.7 | 12314.1 | 3209.5 | 1766.4 | 1480.5 | 1357.5 | 1312.1 | 1269.4 | 1202.5 | 1127.7 | 1125.1 |
| 50° | 20237.6 | 12995.5 | 3166.7 | 1643.5 | 1389.6 | 1301.4 | 1253.3 | 1194.5 | 1122.4 | 1071.6 | 1063.6 |
| 52.5° | 21448.1 | 13586.1 | 2985.0 | 1499.2 | 1293.4 | 1242.6 | 1199.9 | 1138.4 | 1079.6 | 1026.2 | 1020.8 |
| 55° | 22501.0 | 14064.5 | 2664.3 | 1362.9 | 1207.9 | 1191.9 | 1149.1 | 1071.6 | 991.4 | 946.0 | 940.7 |
| 57.5° | 23511.2 | 14427.9 | 2263.5 | 1250.7 | 1130.4 | 1135.7 | 1071.6 | 1002.1 | 927.3 | 879.2 | 873.9 |
| 60° | 24855.3 | 14914.3 | 1857.3 | 1146.4 | 1047.6 | 1063.6 | 994.1 | 943.3 | 849.8 | 788.3 | 780.3 |
| 62.5° | 27003.9 | 15670.5 | 1475.1 | 1018.2 | 951.3 | 956.7 | 927.3 | 865.8 | 753.6 | 681.4 | 676.1 |
| 65° | 28708.8 | 15392.6 | 1162.5 | 879.2 | 841.8 | 849.8 | 849.8 | 783.0 | 662.7 | 579.9 | 571.9 |
| 67.5° | 28516.4 | 13179.9 | 927.3 | 742.9 | 737.6 | 742.9 | 761.6 | 705.5 | 587.9 | 521.1 | 510.4 |
| 70° | 26269.0 | 10483.5 | 742.9 | 617.3 | 641.4 | 628.0 | 681.4 | 644.0 | 529.1 | 462.3 | 454.3 |
| 72.5° | 21434.8 | 7552.0 | 566.5 | 510.4 | 491.7 | 513.1 | 614.6 | 579.9 | 440.9 | 366.1 | 358.1 |
| 75° | 12525.2 | 4029.9 | 422.2 | 403.5 | 355.4 | 427.6 | 545.2 | 494.4 | 336.7 | 269.9 | 261.9 |
| 77.5° | 4078.0 | 1405.6 | 310.0 | 296.6 | 264.6 | 344.7 | 465.0 | 416.9 | 275.2 | 213.8 | 205.8 |
| 80° | 1093.0 | 424.9 | 211.1 | 195.1 | 171.0 | 256.5 | 368.8 | 331.4 | 197.8 | 139.0 | 136.3 |
| 82.5° | 438.3 | 179.0 | 122.9 | 109.6 | 93.5 | 176.4 | 291.3 | 267.2 | 147.0 | 88.2 | 88.2 |
| 85° | 141.6 | 58.8 | 45.4 | 34.7 | 42.8 | 109.6 | 173.7 | 181.7 | 104.2 | 45.4 | 34.7 |
| 87.5° | 18.7 | 8.0 | 8.0 | 10.7 | 8.0 | 18.7 | 53.4 | 50.8 | 29.4 | 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)