

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: P881586

Luminaire Tested: **NVN-SB1A-760-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881586
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-SB1A-760-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

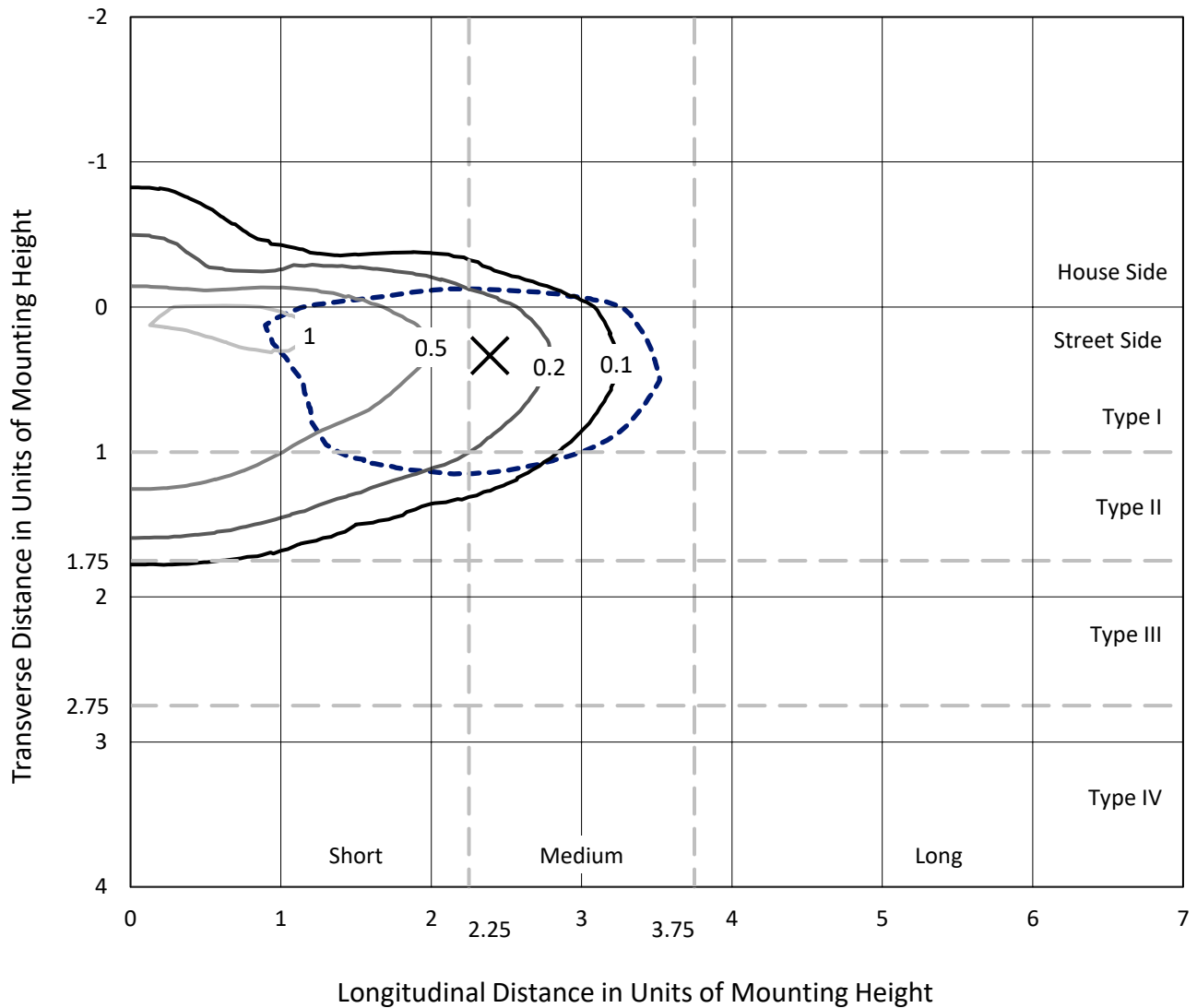
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

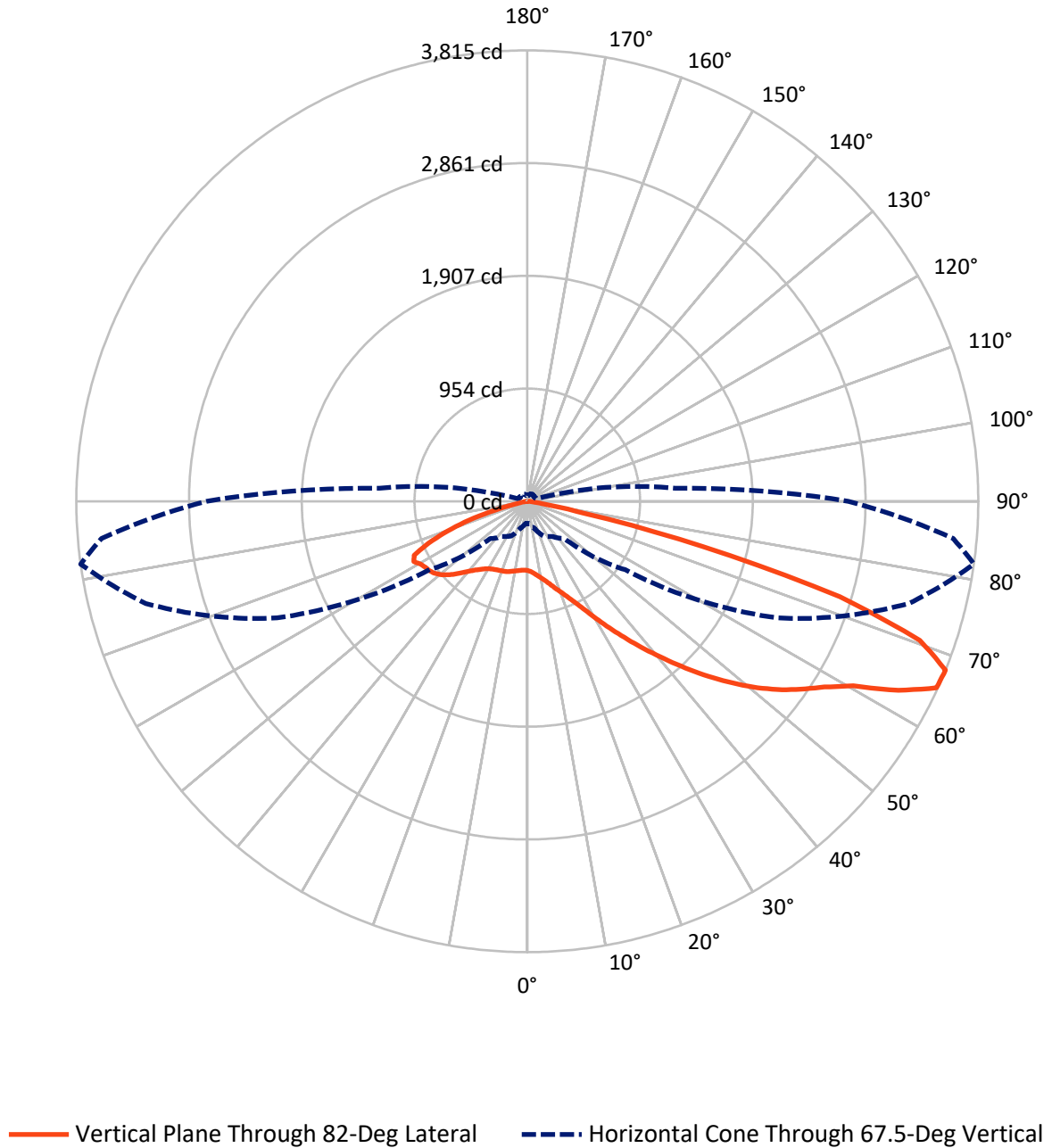
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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 | 640.3 | 0.0 | 640.3 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 2894.7 | 0.0 | 2894.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 3535.0 | 0.0 | 3535.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.2 | 1.5 |
| 10°-20° | 135.6 | 3.8 |
| 20°-30° | 217.2 | 6.1 |
| 30°-40° | 384.0 | 10.9 |
| 40°-50° | 672.8 | 19.0 |
| 50°-60° | 897.3 | 25.4 |
| 60°-70° | 835.4 | 23.6 |
| 70°-80° | 320.6 | 9.1 |
| 80°-90° | 19.9 | 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° | 3535.0 | 100.0 |
| 0°-180° | 3535.0 | 100.0 |

Coefficient of Utilization



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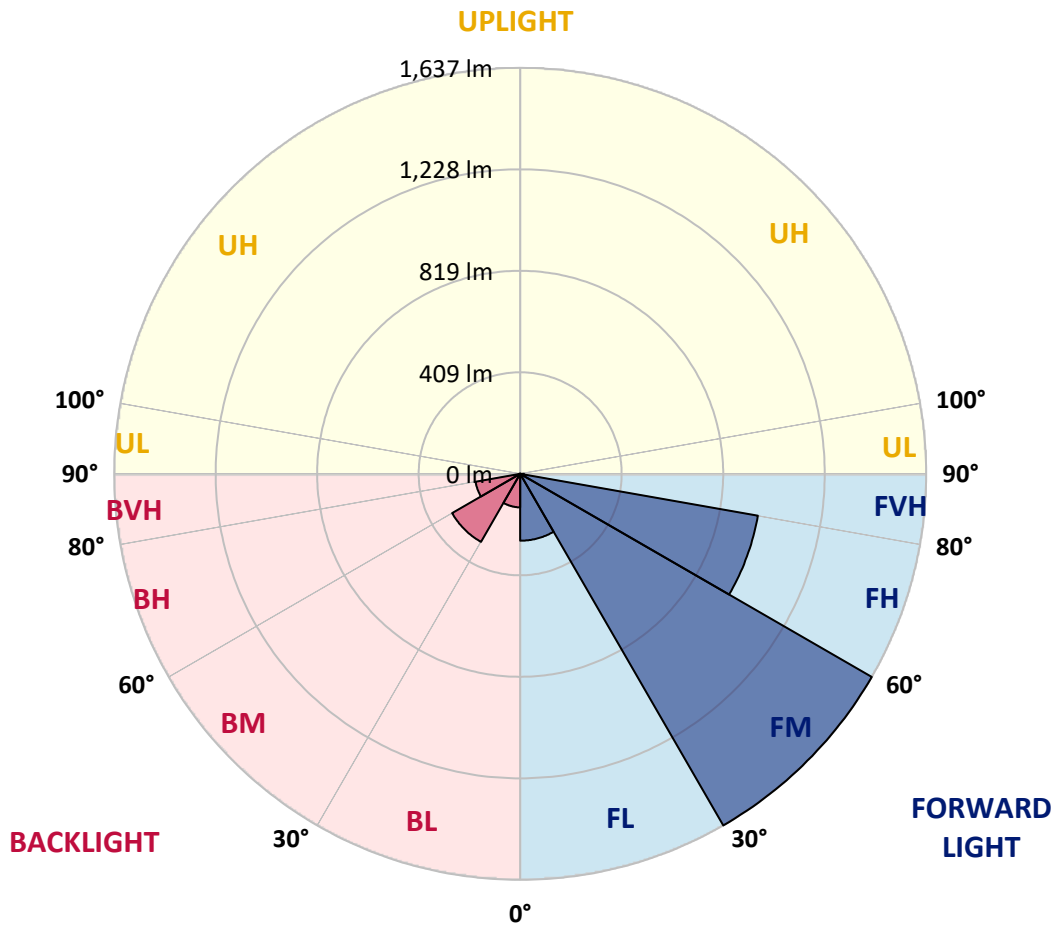
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 269.7 | 7.6 | | | |
| FM (30°-60°) | 1637.3 | 46.3 | | | |
| FH (60°-80°) | 973.2 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 14.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 135.2 | 3.8 | B1/500 | | |
| BM (30°-60°) | 316.9 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 182.8 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.4 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 |
| 2.5° | 619.0 | 622.5 | 620.5 | 619.5 | 617.7 | 615.2 | 613.1 | 606.8 | 600.1 | 595.8 | 594.3 |
| 5° | 631.4 | 635.0 | 634.8 | 635.8 | 637.0 | 637.8 | 637.3 | 630.2 | 620.8 | 613.4 | 609.0 |
| 7.5° | 620.8 | 624.8 | 628.1 | 633.2 | 642.1 | 651.5 | 656.1 | 654.6 | 644.9 | 634.8 | 629.4 |
| 10° | 590.5 | 594.8 | 602.7 | 614.6 | 633.5 | 653.8 | 670.9 | 678.8 | 672.7 | 661.5 | 654.1 |
| 12.5° | 535.0 | 539.3 | 554.8 | 580.8 | 612.4 | 647.7 | 680.3 | 701.4 | 703.0 | 691.8 | 683.1 |
| 15° | 472.6 | 477.0 | 493.5 | 526.1 | 574.2 | 630.9 | 685.4 | 725.4 | 738.8 | 729.2 | 718.7 |
| 17.5° | 433.9 | 437.8 | 450.2 | 476.4 | 526.6 | 597.3 | 683.6 | 750.8 | 781.6 | 774.0 | 761.5 |
| 20° | 422.2 | 425.5 | 431.4 | 449.7 | 491.5 | 562.5 | 671.9 | 774.7 | 827.7 | 823.3 | 809.3 |
| 22.5° | 434.7 | 437.8 | 439.5 | 447.7 | 473.9 | 539.6 | 657.1 | 799.2 | 881.1 | 881.6 | 864.6 |
| 25° | 463.5 | 466.5 | 464.5 | 469.6 | 481.0 | 532.4 | 651.5 | 827.9 | 948.3 | 953.9 | 934.6 |
| 27.5° | 510.8 | 511.1 | 506.2 | 506.0 | 507.7 | 543.1 | 657.4 | 858.7 | 1033.1 | 1043.5 | 1019.6 |
| 30° | 605.7 | 601.9 | 583.3 | 563.2 | 554.1 | 575.2 | 673.7 | 895.1 | 1133.1 | 1151.7 | 1121.6 |
| 32.5° | 752.1 | 746.5 | 712.4 | 664.3 | 615.9 | 626.9 | 703.0 | 936.6 | 1242.0 | 1275.6 | 1239.0 |
| 35° | 910.9 | 909.4 | 873.7 | 802.2 | 717.7 | 700.4 | 750.6 | 991.1 | 1360.9 | 1414.3 | 1370.8 |
| 37.5° | 1058.5 | 1057.7 | 1037.4 | 953.1 | 850.3 | 803.0 | 826.9 | 1062.3 | 1488.1 | 1565.5 | 1514.1 |
| 40° | 1193.4 | 1195.7 | 1175.3 | 1100.0 | 996.4 | 934.6 | 930.7 | 1150.4 | 1629.6 | 1730.2 | 1669.1 |
| 42.5° | 1310.0 | 1312.5 | 1291.9 | 1236.2 | 1140.7 | 1080.1 | 1058.3 | 1258.3 | 1767.8 | 1907.1 | 1834.8 |
| 45° | 1389.1 | 1404.9 | 1401.8 | 1357.3 | 1288.8 | 1226.0 | 1211.5 | 1393.7 | 1925.4 | 2094.6 | 2009.9 |
| 47.5° | 1411.5 | 1426.0 | 1448.9 | 1455.0 | 1413.3 | 1351.5 | 1368.8 | 1556.8 | 2084.7 | 2282.5 | 2186.0 |
| 50° | 1356.3 | 1369.8 | 1417.4 | 1480.7 | 1509.8 | 1490.7 | 1521.7 | 1731.7 | 2247.8 | 2469.8 | 2358.8 |
| 52.5° | 1247.4 | 1261.1 | 1321.2 | 1421.4 | 1539.8 | 1599.9 | 1675.2 | 1904.0 | 2405.9 | 2647.2 | 2522.5 |
| 55° | 1089.8 | 1104.3 | 1181.4 | 1295.0 | 1482.5 | 1644.9 | 1803.2 | 2076.0 | 2550.7 | 2806.7 | 2670.1 |
| 57.5° | 875.5 | 886.2 | 966.4 | 1125.2 | 1338.5 | 1600.1 | 1897.6 | 2263.9 | 2687.1 | 2963.5 | 2816.4 |
| 60° | 570.6 | 580.0 | 673.2 | 850.3 | 1099.7 | 1450.5 | 1916.5 | 2473.3 | 2868.3 | 3167.4 | 3013.7 |
| 62.5° | 379.5 | 385.8 | 441.1 | 571.1 | 774.5 | 1163.1 | 1806.3 | 2640.6 | 3134.0 | 3522.2 | 3351.9 |
| 65° | 260.4 | 266.7 | 322.0 | 412.6 | 500.4 | 769.4 | 1489.4 | 2618.4 | 3374.8 | 3803.9 | 3602.6 |
| 67.5° | 185.8 | 191.1 | 238.0 | 323.5 | 362.2 | 446.9 | 1009.6 | 2335.4 | 3340.2 | 3814.6 | 3616.1 |
| 70° | 133.1 | 136.2 | 174.8 | 252.0 | 287.9 | 268.5 | 561.5 | 1786.2 | 2924.6 | 3522.4 | 3340.7 |
| 72.5° | 93.2 | 94.2 | 121.4 | 191.9 | 231.9 | 196.0 | 267.2 | 1190.9 | 2212.0 | 2764.8 | 2589.9 |
| 75° | 63.1 | 64.4 | 81.7 | 140.7 | 186.0 | 149.7 | 141.5 | 638.6 | 1298.5 | 1530.4 | 1371.8 |
| 77.5° | 38.7 | 39.2 | 52.7 | 96.2 | 139.2 | 114.0 | 91.1 | 270.5 | 502.4 | 493.2 | 420.5 |
| 80° | 21.9 | 21.9 | 33.6 | 59.8 | 94.9 | 73.6 | 63.9 | 115.0 | 159.1 | 139.7 | 123.2 |
| 82.5° | 12.2 | 12.5 | 24.4 | 37.2 | 62.9 | 43.5 | 35.1 | 53.2 | 68.7 | 60.8 | 52.9 |
| 85° | 5.1 | 5.6 | 15.0 | 17.6 | 30.0 | 21.6 | 14.3 | 22.4 | 25.5 | 22.7 | 16.5 |
| 87.5° | 0.5 | 0.8 | 4.6 | 3.3 | 3.6 | 4.3 | 2.0 | 4.3 | 3.6 | 3.6 | 2.5 |
| 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° | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 | 585.6 |
| 2.5° | 589.4 | 585.6 | 576.0 | 564.8 | 550.0 | 542.9 | 533.2 | 526.6 | 521.0 | 521.5 | 516.4 |
| 5° | 600.9 | 591.2 | 569.6 | 542.6 | 509.0 | 485.1 | 459.6 | 442.1 | 427.8 | 424.8 | 417.9 |
| 7.5° | 616.7 | 601.4 | 563.5 | 514.9 | 458.1 | 415.1 | 376.7 | 352.0 | 334.4 | 328.8 | 323.2 |
| 10° | 637.0 | 614.9 | 555.6 | 480.0 | 398.3 | 343.6 | 302.4 | 283.0 | 271.1 | 267.0 | 263.9 |
| 12.5° | 660.7 | 630.4 | 545.2 | 437.5 | 336.7 | 284.0 | 257.8 | 248.1 | 244.3 | 243.1 | 242.3 |
| 15° | 690.5 | 649.8 | 529.4 | 387.1 | 284.5 | 247.6 | 236.4 | 235.2 | 235.7 | 235.2 | 234.9 |
| 17.5° | 725.9 | 670.9 | 503.7 | 335.2 | 249.4 | 229.1 | 225.0 | 226.0 | 227.3 | 227.0 | 226.5 |
| 20° | 764.6 | 691.8 | 470.8 | 289.1 | 225.5 | 215.8 | 213.5 | 214.6 | 215.6 | 215.1 | 214.8 |
| 22.5° | 808.6 | 714.2 | 434.5 | 253.2 | 209.5 | 203.6 | 201.1 | 201.3 | 201.3 | 200.3 | 199.8 |
| 25° | 861.3 | 738.8 | 396.3 | 227.8 | 197.2 | 192.7 | 189.6 | 188.6 | 187.1 | 184.0 | 183.5 |
| 27.5° | 924.1 | 765.1 | 359.6 | 210.0 | 187.6 | 183.2 | 179.7 | 177.1 | 173.3 | 168.2 | 167.7 |
| 30° | 994.9 | 796.9 | 328.6 | 198.8 | 179.9 | 175.6 | 171.5 | 167.7 | 162.1 | 155.8 | 155.3 |
| 32.5° | 1078.1 | 831.0 | 305.9 | 191.4 | 173.1 | 168.5 | 163.7 | 159.1 | 153.0 | 146.6 | 146.9 |
| 35° | 1177.4 | 872.2 | 292.7 | 186.3 | 167.7 | 161.6 | 156.3 | 151.2 | 146.6 | 141.0 | 140.5 |
| 37.5° | 1285.0 | 916.0 | 288.6 | 183.8 | 164.2 | 154.7 | 148.6 | 145.1 | 144.6 | 141.3 | 141.0 |
| 40° | 1402.9 | 967.9 | 291.7 | 182.2 | 160.3 | 148.1 | 141.5 | 140.7 | 142.0 | 136.2 | 136.4 |
| 42.5° | 1527.6 | 1029.5 | 296.8 | 180.4 | 155.0 | 141.5 | 135.1 | 135.1 | 134.1 | 126.0 | 126.0 |
| 45° | 1662.5 | 1100.5 | 301.9 | 176.1 | 148.6 | 134.9 | 130.1 | 128.3 | 123.9 | 116.1 | 115.8 |
| 47.5° | 1798.4 | 1172.8 | 305.7 | 168.2 | 141.0 | 129.3 | 125.0 | 120.9 | 114.5 | 107.4 | 107.1 |
| 50° | 1927.4 | 1237.7 | 301.6 | 156.5 | 132.3 | 123.9 | 119.4 | 113.8 | 106.9 | 102.1 | 101.3 |
| 52.5° | 2042.7 | 1293.9 | 284.3 | 142.8 | 123.2 | 118.3 | 114.3 | 108.4 | 102.8 | 97.7 | 97.2 |
| 55° | 2143.0 | 1339.5 | 253.7 | 129.8 | 115.0 | 113.5 | 109.4 | 102.1 | 94.4 | 90.1 | 89.6 |
| 57.5° | 2239.2 | 1374.1 | 215.6 | 119.1 | 107.7 | 108.2 | 102.1 | 95.4 | 88.3 | 83.7 | 83.2 |
| 60° | 2367.2 | 1420.4 | 176.9 | 109.2 | 99.8 | 101.3 | 94.7 | 89.8 | 80.9 | 75.1 | 74.3 |
| 62.5° | 2571.8 | 1492.5 | 140.5 | 97.0 | 90.6 | 91.1 | 88.3 | 82.5 | 71.8 | 64.9 | 64.4 |
| 65° | 2734.2 | 1466.0 | 110.7 | 83.7 | 80.2 | 80.9 | 80.9 | 74.6 | 63.1 | 55.2 | 54.5 |
| 67.5° | 2715.9 | 1255.2 | 88.3 | 70.8 | 70.2 | 70.8 | 72.5 | 67.2 | 56.0 | 49.6 | 48.6 |
| 70° | 2501.8 | 998.4 | 70.8 | 58.8 | 61.1 | 59.8 | 64.9 | 61.3 | 50.4 | 44.0 | 43.3 |
| 72.5° | 2041.4 | 719.2 | 54.0 | 48.6 | 46.8 | 48.9 | 58.5 | 55.2 | 42.0 | 34.9 | 34.1 |
| 75° | 1192.9 | 383.8 | 40.2 | 38.4 | 33.8 | 40.7 | 51.9 | 47.1 | 32.1 | 25.7 | 24.9 |
| 77.5° | 388.4 | 133.9 | 29.5 | 28.3 | 25.2 | 32.8 | 44.3 | 39.7 | 26.2 | 20.4 | 19.6 |
| 80° | 104.1 | 40.5 | 20.1 | 18.6 | 16.3 | 24.4 | 35.1 | 31.6 | 18.8 | 13.2 | 13.0 |
| 82.5° | 41.7 | 17.1 | 11.7 | 10.4 | 8.9 | 16.8 | 27.7 | 25.5 | 14.0 | 8.4 | 8.4 |
| 85° | 13.5 | 5.6 | 4.3 | 3.3 | 4.1 | 10.4 | 16.5 | 17.3 | 9.9 | 4.3 | 3.3 |
| 87.5° | 1.8 | 0.8 | 0.8 | 1.0 | 0.8 | 1.8 | 5.1 | 4.8 | 2.8 | 0.5 | 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)