

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: P960314

Luminaire Tested: **NVN-SB1C-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7611.6 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

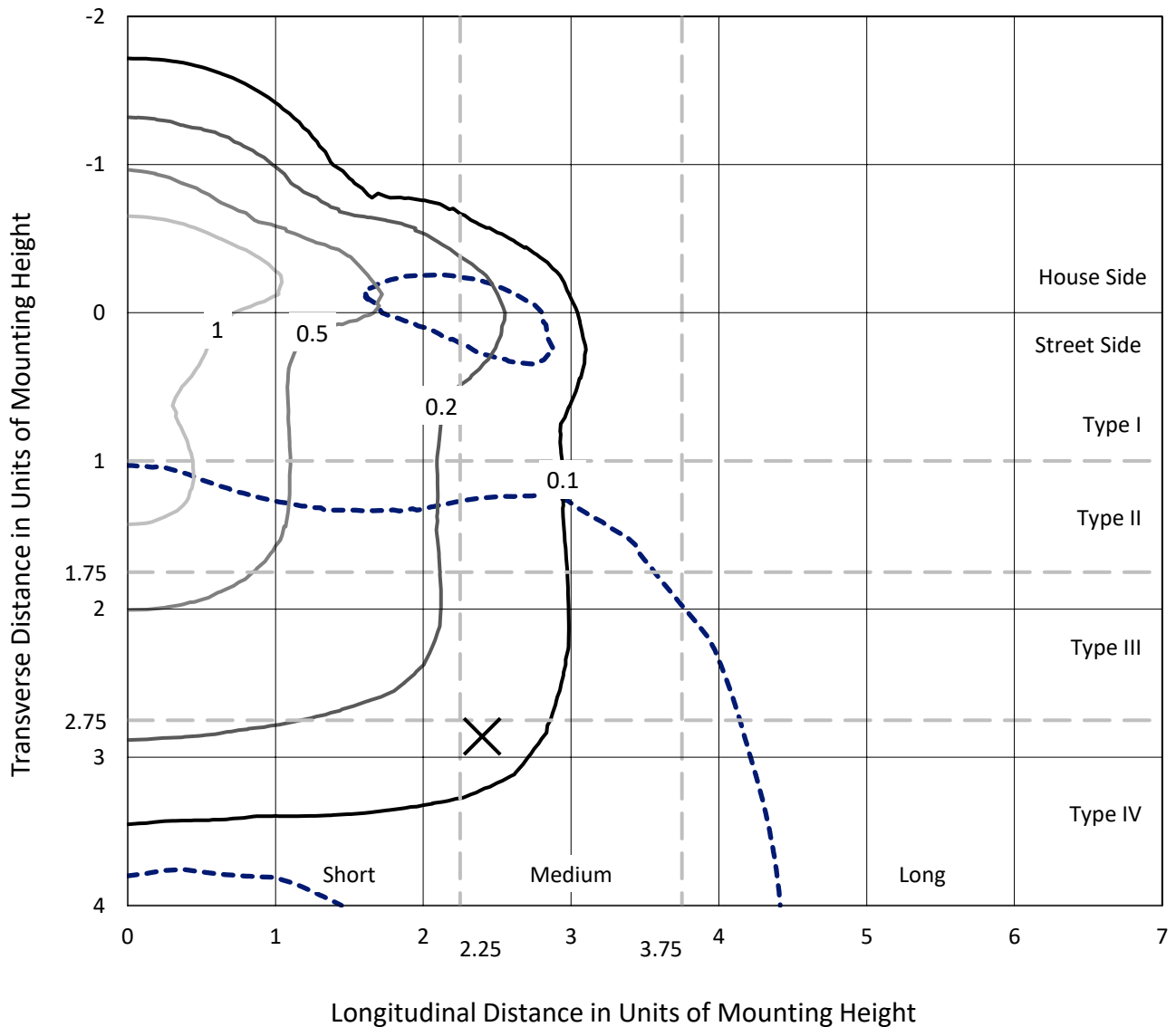
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

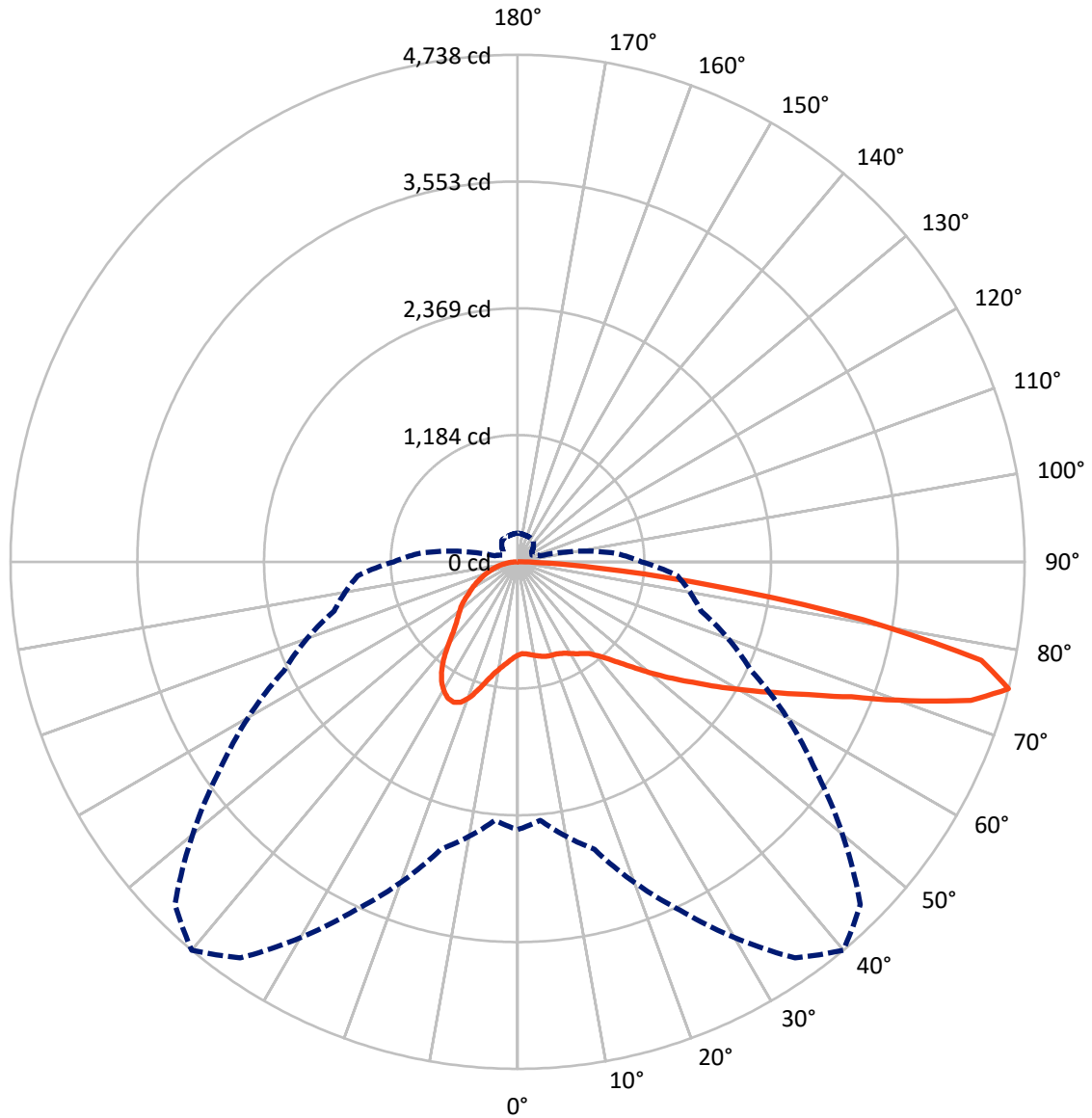
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2358.3 | 0.0 | 2358.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 5253.3 | 0.0 | 5253.3 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 7611.6 | 0.0 | 7611.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.9 | 1.1 |
| 10°-20° | 291.7 | 3.8 |
| 20°-30° | 532.6 | 7.0 |
| 30°-40° | 755.4 | 9.9 |
| 40°-50° | 1020.0 | 13.4 |
| 50°-60° | 1372.2 | 18.0 |
| 60°-70° | 1741.7 | 22.9 |
| 70°-80° | 1580.7 | 20.8 |
| 80°-90° | 230.4 | 3.0 |
| 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° | 7611.6 | 100.0 |
| 0°-180° | 7611.6 | 100.0 |

Coefficient of Utilization

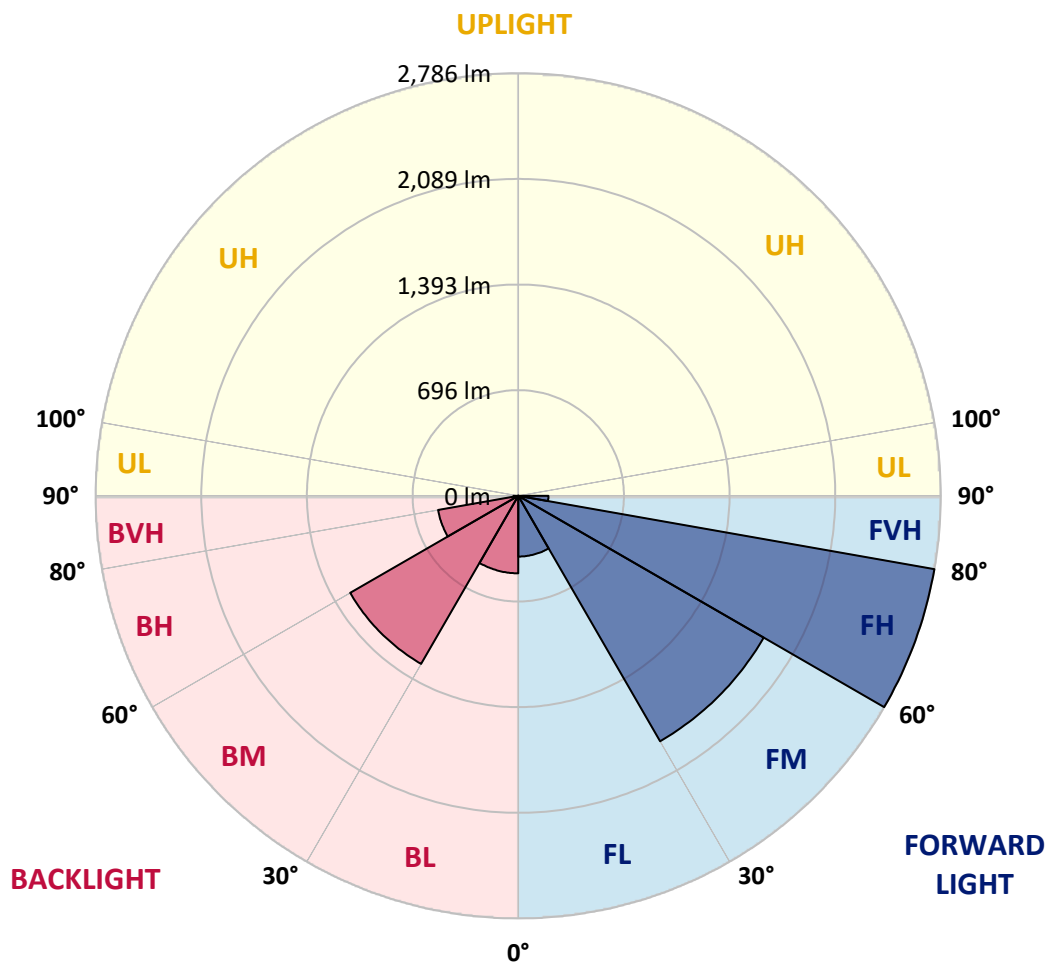


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 400.4 | 5.3 | | | |
| FM (30°-60°) | 1868.5 | 24.5 | | | |
| FH (60°-80°) | 2785.7 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 198.7 | 2.6 | | | G2/225 |
| BL (0°-30°) | 510.8 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1279.2 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 536.6 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 31.7 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 |
| 2.5° | 857.1 | 861.9 | 860.7 | 859.1 | 859.1 | 859.5 | 859.1 | 861.9 | 864.8 | 867.6 | 872.0 |
| 5° | 865.9 | 870.8 | 868.4 | 866.3 | 864.8 | 864.4 | 863.2 | 862.7 | 864.4 | 868.0 | 874.0 |
| 7.5° | 883.3 | 888.2 | 884.6 | 880.9 | 877.7 | 876.1 | 874.4 | 872.0 | 870.8 | 872.8 | 881.3 |
| 10° | 902.7 | 907.5 | 903.1 | 896.7 | 891.4 | 889.4 | 887.8 | 885.3 | 883.8 | 885.0 | 894.2 |
| 12.5° | 922.1 | 926.9 | 920.9 | 911.9 | 905.1 | 903.9 | 901.9 | 901.1 | 900.7 | 900.3 | 909.6 |
| 15° | 940.2 | 944.3 | 936.6 | 926.1 | 918.8 | 916.9 | 914.8 | 916.0 | 918.0 | 920.4 | 931.0 |
| 17.5° | 954.4 | 958.4 | 947.1 | 933.4 | 926.5 | 925.7 | 924.6 | 928.5 | 934.2 | 940.2 | 953.1 |
| 20° | 967.3 | 971.3 | 956.8 | 938.2 | 930.2 | 930.2 | 930.6 | 939.0 | 947.1 | 956.0 | 973.7 |
| 22.5° | 985.4 | 988.7 | 970.9 | 945.5 | 933.8 | 934.6 | 937.8 | 946.3 | 956.4 | 968.5 | 993.1 |
| 25° | 1012.5 | 1015.0 | 993.1 | 959.2 | 945.9 | 948.3 | 951.1 | 955.2 | 964.8 | 979.0 | 1012.1 |
| 27.5° | 1056.2 | 1058.1 | 1029.5 | 983.5 | 963.3 | 967.3 | 971.3 | 968.5 | 972.9 | 985.0 | 1027.5 |
| 30° | 1117.5 | 1118.7 | 1082.4 | 1021.4 | 992.7 | 994.8 | 995.6 | 983.8 | 975.4 | 985.0 | 1038.3 |
| 32.5° | 1190.1 | 1189.7 | 1146.6 | 1067.4 | 1026.2 | 1024.2 | 1017.3 | 994.4 | 974.6 | 983.1 | 1048.1 |
| 35° | 1302.8 | 1298.4 | 1242.6 | 1132.0 | 1064.2 | 1051.6 | 1035.6 | 1006.0 | 978.6 | 981.0 | 1056.5 |
| 37.5° | 1489.3 | 1475.6 | 1398.4 | 1237.8 | 1120.7 | 1088.9 | 1065.0 | 1025.0 | 987.5 | 980.2 | 1066.6 |
| 40° | 1699.7 | 1682.2 | 1597.5 | 1382.7 | 1205.5 | 1154.3 | 1115.8 | 1052.1 | 1002.0 | 983.8 | 1081.6 |
| 42.5° | 1949.1 | 1924.5 | 1833.2 | 1553.5 | 1312.8 | 1238.6 | 1180.9 | 1086.4 | 1023.4 | 995.6 | 1101.8 |
| 45° | 2255.5 | 2222.8 | 2093.7 | 1746.1 | 1448.1 | 1349.2 | 1272.1 | 1138.5 | 1056.2 | 1018.1 | 1132.0 |
| 47.5° | 2565.2 | 2573.3 | 2389.6 | 1966.5 | 1610.4 | 1485.6 | 1386.3 | 1216.8 | 1103.7 | 1054.5 | 1180.9 |
| 50° | 2894.2 | 2899.8 | 2683.9 | 2210.7 | 1794.5 | 1639.9 | 1514.7 | 1304.4 | 1169.9 | 1106.2 | 1253.9 |
| 52.5° | 3151.0 | 3151.8 | 2951.2 | 2466.3 | 1986.2 | 1809.4 | 1653.2 | 1404.6 | 1246.7 | 1174.8 | 1351.3 |
| 55° | 3311.7 | 3309.6 | 3138.4 | 2708.0 | 2206.7 | 1987.5 | 1806.6 | 1518.3 | 1340.3 | 1255.5 | 1473.5 |
| 57.5° | 3428.3 | 3422.3 | 3267.6 | 2916.0 | 2441.7 | 2197.8 | 1980.2 | 1647.6 | 1451.0 | 1351.7 | 1634.7 |
| 60° | 3472.7 | 3469.1 | 3355.2 | 3095.7 | 2688.7 | 2430.4 | 2180.5 | 1792.1 | 1576.4 | 1465.0 | 1841.7 |
| 62.5° | 3489.7 | 3496.6 | 3441.2 | 3269.6 | 2953.1 | 2688.0 | 2400.4 | 1964.8 | 1717.8 | 1593.5 | 2060.1 |
| 65° | 3549.5 | 3562.0 | 3550.6 | 3497.4 | 3251.9 | 2989.5 | 2692.4 | 2170.3 | 1872.1 | 1731.1 | 2288.2 |
| 67.5° | 3667.8 | 3680.3 | 3685.1 | 3769.8 | 3616.8 | 3365.4 | 3056.5 | 2426.3 | 2052.5 | 1874.0 | 2459.8 |
| 70° | 3664.9 | 3661.3 | 3746.9 | 3986.6 | 4073.9 | 3885.8 | 3547.4 | 2741.2 | 2267.6 | 1992.7 | 2481.6 |
| 72.5° | 3335.9 | 3306.8 | 3509.1 | 3984.3 | 4454.1 | 4429.1 | 4146.9 | 3147.4 | 2453.3 | 2007.3 | 2153.4 |
| 75° | 2502.6 | 2425.0 | 2782.4 | 3590.6 | 4517.5 | 4737.5 | 4528.0 | 3399.2 | 2409.4 | 1773.5 | 1498.6 |
| 77.5° | 1070.2 | 992.3 | 1413.4 | 2658.0 | 4043.2 | 4428.7 | 4178.4 | 2965.6 | 1923.3 | 1172.8 | 735.9 |
| 80° | 280.1 | 279.7 | 427.1 | 1205.1 | 2749.7 | 3270.5 | 2869.2 | 1915.2 | 1098.9 | 419.0 | 203.1 |
| 82.5° | 115.8 | 113.1 | 157.0 | 468.7 | 1343.6 | 1835.3 | 1497.7 | 854.2 | 396.9 | 113.5 | 67.4 |
| 85° | 43.2 | 42.7 | 76.3 | 161.8 | 474.0 | 757.0 | 547.9 | 218.4 | 98.9 | 55.4 | 30.2 |
| 87.5° | 12.1 | 11.7 | 16.5 | 56.1 | 115.4 | 175.2 | 93.7 | 36.0 | 27.9 | 21.8 | 8.9 |
| 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° | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 | 870.4 |
| 2.5° | 873.2 | 875.2 | 878.8 | 881.7 | 885.3 | 889.4 | 895.0 | 898.6 | 902.3 | 904.8 | 903.1 |
| 5° | 876.9 | 881.3 | 890.6 | 899.8 | 910.8 | 920.9 | 932.5 | 941.1 | 947.9 | 950.0 | 950.8 |
| 7.5° | 885.0 | 892.2 | 907.9 | 923.7 | 941.1 | 957.6 | 974.6 | 989.1 | 1000.8 | 1005.2 | 1005.6 |
| 10° | 899.0 | 908.8 | 931.0 | 953.1 | 976.2 | 1001.6 | 1023.4 | 1044.4 | 1061.0 | 1067.8 | 1068.3 |
| 12.5° | 916.9 | 929.0 | 958.0 | 988.7 | 1020.6 | 1055.8 | 1083.9 | 1109.8 | 1130.4 | 1139.7 | 1139.7 |
| 15° | 939.8 | 955.6 | 992.7 | 1033.9 | 1080.8 | 1129.6 | 1165.5 | 1194.2 | 1217.2 | 1228.5 | 1227.6 |
| 17.5° | 964.8 | 985.8 | 1032.7 | 1094.9 | 1161.8 | 1226.1 | 1268.0 | 1289.0 | 1312.8 | 1323.8 | 1323.4 |
| 20° | 989.1 | 1015.0 | 1082.0 | 1172.4 | 1261.6 | 1329.8 | 1363.8 | 1369.4 | 1371.0 | 1372.2 | 1375.4 |
| 22.5° | 1014.1 | 1048.9 | 1143.7 | 1270.1 | 1365.7 | 1413.0 | 1417.9 | 1393.6 | 1359.7 | 1344.0 | 1348.4 |
| 25° | 1041.6 | 1087.6 | 1224.5 | 1377.9 | 1455.4 | 1461.0 | 1423.9 | 1365.0 | 1300.7 | 1271.3 | 1275.7 |
| 27.5° | 1068.3 | 1132.4 | 1321.3 | 1480.8 | 1520.0 | 1470.4 | 1390.4 | 1306.8 | 1229.3 | 1198.2 | 1201.8 |
| 30° | 1094.9 | 1183.7 | 1428.3 | 1570.8 | 1549.5 | 1447.3 | 1337.5 | 1244.2 | 1166.3 | 1133.6 | 1137.2 |
| 32.5° | 1122.0 | 1243.4 | 1551.4 | 1635.8 | 1544.2 | 1398.4 | 1271.7 | 1174.0 | 1105.4 | 1071.0 | 1075.5 |
| 35° | 1152.6 | 1316.9 | 1668.2 | 1671.4 | 1509.1 | 1326.6 | 1184.9 | 1090.0 | 1030.2 | 1002.9 | 1008.9 |
| 37.5° | 1192.6 | 1410.2 | 1771.1 | 1680.3 | 1447.7 | 1221.2 | 1077.1 | 990.7 | 941.5 | 929.0 | 937.8 |
| 40° | 1242.2 | 1522.4 | 1849.8 | 1666.1 | 1356.9 | 1093.3 | 959.2 | 890.2 | 862.3 | 865.2 | 874.8 |
| 42.5° | 1306.8 | 1648.0 | 1905.1 | 1629.7 | 1230.5 | 961.2 | 855.9 | 825.2 | 838.6 | 849.8 | 860.3 |
| 45° | 1390.8 | 1778.4 | 1939.4 | 1568.0 | 1087.6 | 849.4 | 794.9 | 802.2 | 812.3 | 813.4 | 821.5 |
| 47.5° | 1498.1 | 1910.4 | 1962.1 | 1474.8 | 941.9 | 770.7 | 756.1 | 757.8 | 755.7 | 747.2 | 753.7 |
| 50° | 1632.2 | 2038.7 | 1982.2 | 1351.3 | 817.9 | 721.4 | 702.0 | 696.4 | 668.5 | 641.1 | 644.7 |
| 52.5° | 1784.8 | 2156.6 | 1990.7 | 1197.8 | 721.4 | 680.3 | 648.7 | 613.3 | 561.2 | 552.7 | 555.6 |
| 55° | 1954.4 | 2265.7 | 1968.9 | 1009.3 | 640.3 | 627.4 | 579.7 | 536.9 | 531.3 | 524.0 | 525.2 |
| 57.5° | 2157.0 | 2383.1 | 1924.5 | 799.0 | 557.1 | 565.6 | 519.2 | 524.0 | 513.9 | 502.7 | 500.6 |
| 60° | 2378.7 | 2504.6 | 1846.5 | 607.2 | 471.1 | 488.5 | 503.4 | 503.1 | 500.2 | 490.9 | 487.7 |
| 62.5° | 2578.1 | 2584.5 | 1693.2 | 465.0 | 395.6 | 428.8 | 469.6 | 469.1 | 466.7 | 461.5 | 459.4 |
| 65° | 2696.8 | 2572.4 | 1437.3 | 366.1 | 333.4 | 379.5 | 423.5 | 426.7 | 427.1 | 426.7 | 426.7 |
| 67.5° | 2675.8 | 2430.8 | 1086.0 | 291.5 | 282.2 | 329.4 | 377.9 | 382.3 | 385.5 | 386.3 | 387.1 |
| 70° | 2438.4 | 2119.5 | 708.1 | 232.6 | 236.6 | 285.5 | 334.7 | 339.1 | 341.9 | 345.2 | 346.8 |
| 72.5° | 1900.7 | 1558.3 | 405.3 | 188.1 | 196.6 | 247.4 | 291.9 | 297.1 | 298.8 | 304.8 | 307.2 |
| 75° | 1158.2 | 916.5 | 218.8 | 148.1 | 161.4 | 211.6 | 249.5 | 255.5 | 258.4 | 265.7 | 266.5 |
| 77.5° | 550.6 | 396.9 | 124.7 | 115.4 | 130.0 | 172.8 | 210.7 | 217.6 | 209.9 | 213.9 | 210.7 |
| 80° | 186.1 | 147.4 | 78.7 | 88.0 | 99.3 | 134.9 | 168.7 | 175.6 | 159.5 | 158.7 | 157.0 |
| 82.5° | 65.0 | 59.8 | 50.0 | 58.5 | 64.2 | 96.5 | 127.6 | 136.4 | 118.7 | 118.3 | 112.6 |
| 85° | 25.4 | 24.2 | 27.9 | 31.9 | 38.3 | 59.3 | 83.9 | 88.5 | 73.1 | 58.9 | 58.1 |
| 87.5° | 5.2 | 5.6 | 6.9 | 7.3 | 11.7 | 20.6 | 30.2 | 37.1 | 29.5 | 25.0 | 23.1 |
| 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)