

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: P961374

Luminaire Tested: **NVN-SB2A-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714.8 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

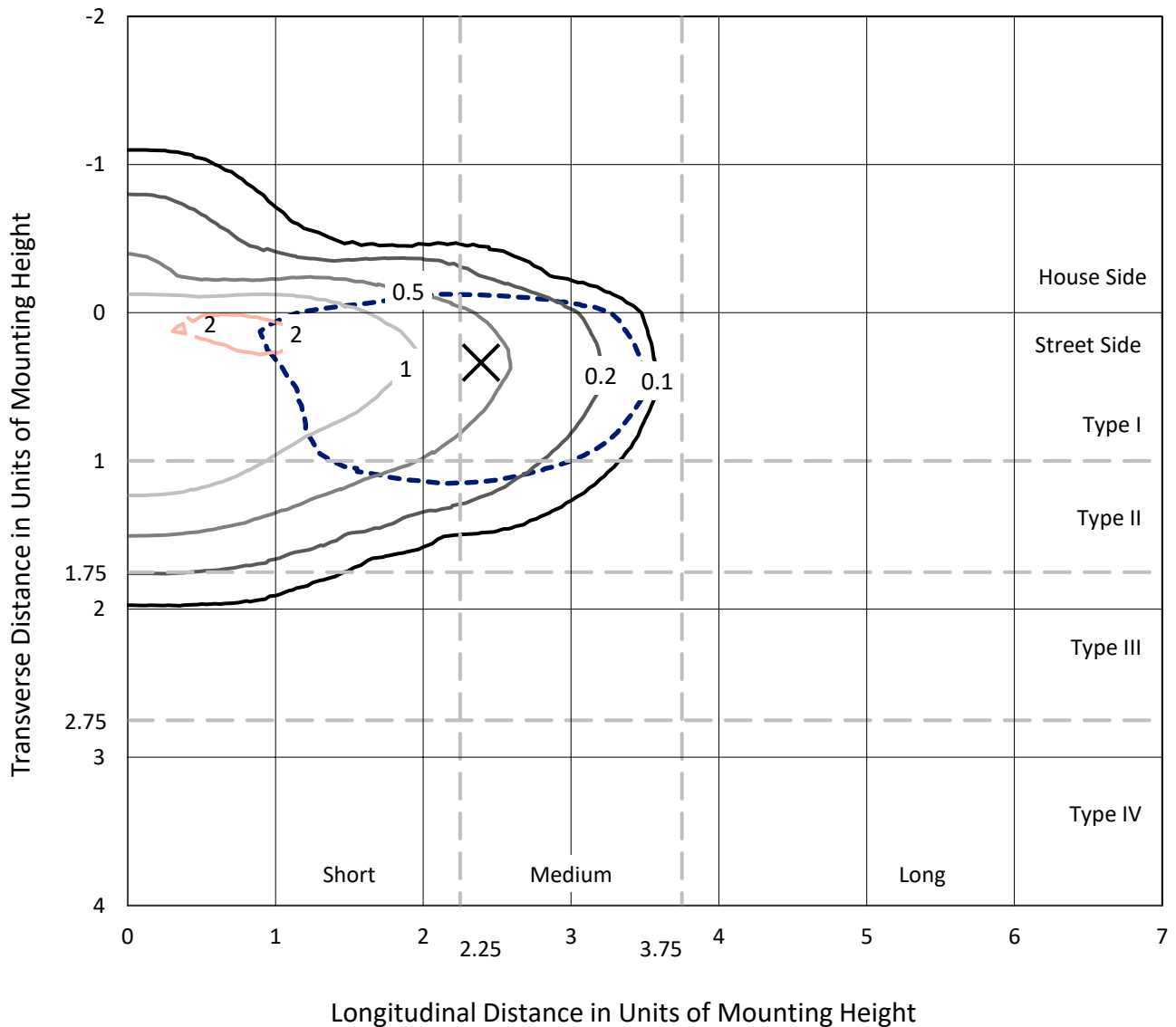
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

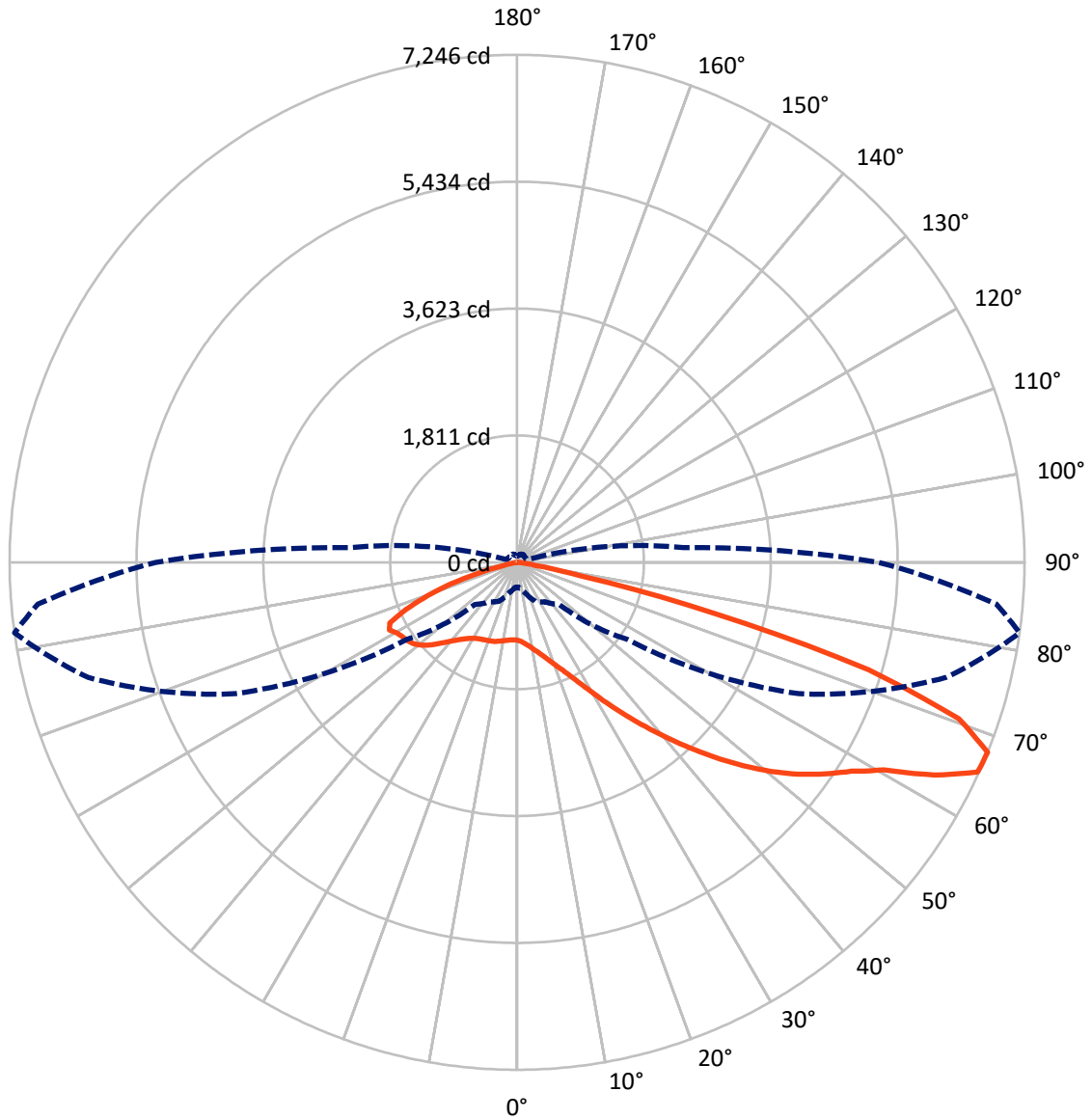
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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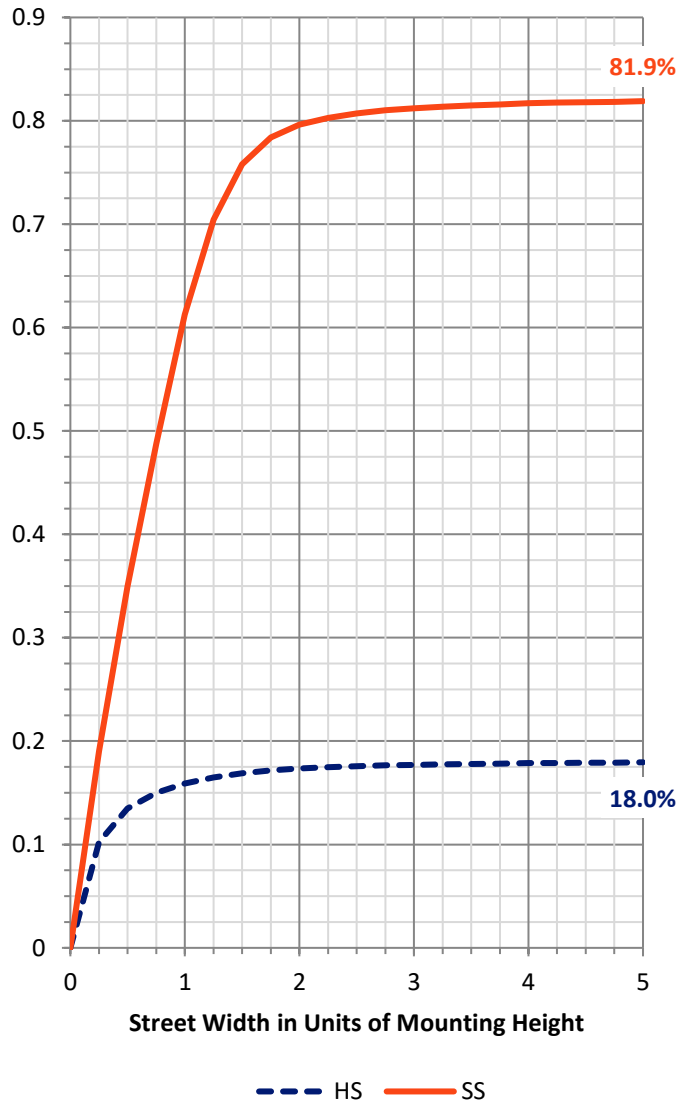
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1216.3 | 0.0 | 1216.3 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 5498.5 | 0.0 | 5498.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 6714.8 | 0.0 | 6714.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.1 | 1.5 |
| 10°-20° | 257.5 | 3.8 |
| 20°-30° | 412.5 | 6.1 |
| 30°-40° | 729.4 | 10.9 |
| 40°-50° | 1278.0 | 19.0 |
| 50°-60° | 1704.5 | 25.4 |
| 60°-70° | 1586.8 | 23.6 |
| 70°-80° | 609.0 | 9.1 |
| 80°-90° | 37.8 | 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° | 6714.8 | 100.0 |
| 0°-180° | 6714.8 | 100.0 |

Coefficient of Utilization



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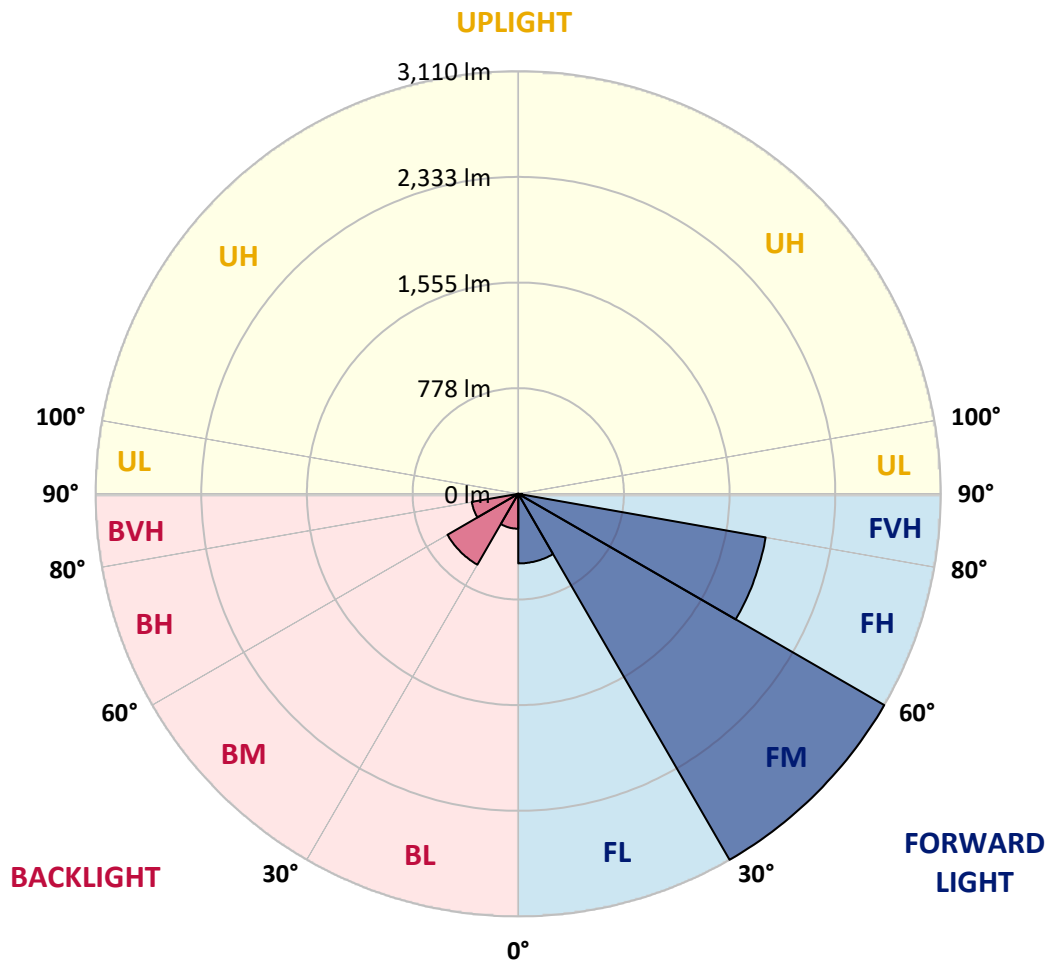
CATALOG NUMBER: NVN-SB2A-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 512.3 | 7.6 | | | |
| FM (30°-60°) | 3110.0 | 46.3 | | | |
| FH (60°-80°) | 1848.7 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 27.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 256.9 | 3.8 | B1/500 | | |
| BM (30°-60°) | 602.0 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 347.2 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.3 | 0.2 | | | G1/100 |
| 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° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 |
| 2.5° | 1175.8 | 1182.5 | 1178.6 | 1176.7 | 1173.3 | 1168.5 | 1164.6 | 1152.5 | 1140.0 | 1131.7 | 1128.8 |
| 5° | 1199.5 | 1206.2 | 1205.7 | 1207.7 | 1210.1 | 1211.6 | 1210.5 | 1197.0 | 1179.2 | 1165.1 | 1156.9 |
| 7.5° | 1179.2 | 1186.8 | 1193.1 | 1202.8 | 1219.8 | 1237.6 | 1246.3 | 1243.4 | 1225.1 | 1205.7 | 1195.6 |
| 10° | 1121.6 | 1129.9 | 1144.8 | 1167.5 | 1203.4 | 1242.0 | 1274.4 | 1289.3 | 1277.8 | 1256.4 | 1242.5 |
| 12.5° | 1016.2 | 1024.4 | 1053.9 | 1103.2 | 1163.2 | 1230.4 | 1292.2 | 1332.4 | 1335.3 | 1314.0 | 1297.5 |
| 15° | 897.8 | 906.0 | 937.4 | 999.3 | 1090.7 | 1198.4 | 1302.0 | 1377.8 | 1403.4 | 1385.1 | 1365.3 |
| 17.5° | 824.3 | 831.5 | 855.3 | 905.0 | 1000.3 | 1134.7 | 1298.6 | 1426.2 | 1484.7 | 1470.2 | 1446.5 |
| 20° | 802.1 | 808.3 | 819.5 | 854.2 | 933.6 | 1068.5 | 1276.3 | 1471.6 | 1572.1 | 1563.9 | 1537.4 |
| 22.5° | 825.7 | 831.5 | 834.9 | 850.3 | 900.2 | 1024.9 | 1248.2 | 1518.0 | 1673.7 | 1674.6 | 1642.3 |
| 25° | 880.4 | 886.1 | 882.3 | 892.0 | 913.7 | 1011.4 | 1237.6 | 1572.7 | 1801.3 | 1812.0 | 1775.2 |
| 27.5° | 970.3 | 970.8 | 961.6 | 961.1 | 964.5 | 1031.7 | 1248.8 | 1631.2 | 1962.3 | 1982.1 | 1936.7 |
| 30° | 1150.6 | 1143.4 | 1108.0 | 1069.9 | 1052.5 | 1092.5 | 1279.7 | 1700.3 | 2152.3 | 2187.6 | 2130.6 |
| 32.5° | 1428.5 | 1418.0 | 1353.2 | 1261.8 | 1169.9 | 1190.7 | 1335.3 | 1779.1 | 2359.2 | 2423.0 | 2353.4 |
| 35° | 1730.3 | 1727.3 | 1659.7 | 1523.9 | 1363.4 | 1330.4 | 1425.7 | 1882.5 | 2584.9 | 2686.5 | 2603.8 |
| 37.5° | 2010.6 | 2009.2 | 1970.6 | 1810.5 | 1615.2 | 1525.3 | 1570.7 | 2017.9 | 2826.7 | 2973.7 | 2876.0 |
| 40° | 2266.9 | 2271.2 | 2232.6 | 2089.5 | 1892.7 | 1775.2 | 1767.9 | 2185.2 | 3095.5 | 3286.5 | 3170.4 |
| 42.5° | 2488.3 | 2493.1 | 2454.0 | 2348.1 | 2166.8 | 2051.7 | 2010.1 | 2390.2 | 3358.0 | 3622.5 | 3485.2 |
| 45° | 2638.7 | 2668.6 | 2662.8 | 2578.2 | 2448.2 | 2328.8 | 2301.2 | 2647.4 | 3657.3 | 3978.7 | 3817.8 |
| 47.5° | 2681.2 | 2708.8 | 2752.2 | 2763.9 | 2684.6 | 2567.1 | 2600.0 | 2957.2 | 3959.9 | 4335.5 | 4152.3 |
| 50° | 2576.3 | 2601.9 | 2692.3 | 2812.7 | 2867.8 | 2831.6 | 2890.5 | 3289.3 | 4269.8 | 4691.3 | 4480.6 |
| 52.5° | 2369.4 | 2395.5 | 2509.6 | 2700.1 | 2924.8 | 3038.9 | 3182.0 | 3616.7 | 4570.1 | 5028.3 | 4791.5 |
| 55° | 2070.1 | 2097.7 | 2244.1 | 2459.8 | 2816.1 | 3124.5 | 3425.2 | 3943.5 | 4845.1 | 5331.4 | 5071.8 |
| 57.5° | 1663.1 | 1683.4 | 1835.7 | 2137.3 | 2542.4 | 3039.4 | 3604.6 | 4300.3 | 5104.2 | 5629.3 | 5349.8 |
| 60° | 1083.9 | 1101.8 | 1278.7 | 1615.2 | 2089.0 | 2755.2 | 3640.4 | 4698.1 | 5448.5 | 6016.5 | 5724.5 |
| 62.5° | 720.8 | 732.9 | 837.8 | 1084.9 | 1471.1 | 2209.4 | 3431.0 | 5015.7 | 5953.2 | 6690.4 | 6367.0 |
| 65° | 494.6 | 506.7 | 611.5 | 783.7 | 950.5 | 1461.4 | 2829.1 | 4973.7 | 6410.6 | 7225.6 | 6843.2 |
| 67.5° | 352.9 | 363.1 | 452.0 | 614.5 | 688.0 | 848.9 | 1917.9 | 4436.1 | 6344.7 | 7245.9 | 6868.8 |
| 70° | 252.9 | 258.6 | 332.1 | 478.6 | 546.7 | 510.0 | 1066.5 | 3392.9 | 5555.3 | 6690.9 | 6345.7 |
| 72.5° | 176.9 | 178.9 | 230.6 | 364.5 | 440.4 | 372.3 | 507.6 | 2262.1 | 4201.7 | 5251.7 | 4919.6 |
| 75° | 119.9 | 122.3 | 155.2 | 267.3 | 353.4 | 284.2 | 268.8 | 1213.0 | 2466.6 | 2907.0 | 2605.8 |
| 77.5° | 73.5 | 74.4 | 100.0 | 182.8 | 264.4 | 216.6 | 173.1 | 513.9 | 954.3 | 937.0 | 798.7 |
| 80° | 41.6 | 41.6 | 63.9 | 113.6 | 180.3 | 139.7 | 121.4 | 218.5 | 302.2 | 265.4 | 234.0 |
| 82.5° | 23.2 | 23.7 | 46.4 | 70.6 | 119.4 | 82.7 | 66.7 | 101.1 | 130.5 | 115.5 | 100.6 |
| 85° | 9.6 | 10.7 | 28.5 | 33.3 | 57.1 | 41.1 | 27.1 | 42.5 | 48.4 | 43.0 | 31.5 |
| 87.5° | 0.9 | 1.4 | 8.7 | 6.3 | 6.8 | 8.2 | 3.9 | 8.2 | 6.8 | 6.8 | 4.8 |
| 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° | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 | 1112.4 |
| 2.5° | 1119.7 | 1112.4 | 1094.1 | 1072.8 | 1044.7 | 1031.1 | 1012.8 | 1000.3 | 989.6 | 990.6 | 980.9 |
| 5° | 1141.4 | 1123.1 | 1082.0 | 1030.7 | 966.9 | 921.5 | 873.1 | 839.8 | 812.7 | 806.9 | 793.9 |
| 7.5° | 1171.4 | 1142.4 | 1070.3 | 978.1 | 870.2 | 788.5 | 715.4 | 668.6 | 635.3 | 624.6 | 614.0 |
| 10° | 1210.1 | 1168.0 | 1055.3 | 911.7 | 756.6 | 652.6 | 574.3 | 537.6 | 514.9 | 507.2 | 501.3 |
| 12.5° | 1255.0 | 1197.5 | 1035.6 | 831.1 | 639.6 | 539.6 | 489.7 | 471.4 | 464.1 | 461.7 | 460.2 |
| 15° | 1311.6 | 1234.2 | 1005.5 | 735.3 | 540.5 | 470.4 | 449.2 | 446.7 | 447.7 | 446.7 | 446.2 |
| 17.5° | 1378.8 | 1274.4 | 956.7 | 636.7 | 473.8 | 435.1 | 427.3 | 429.3 | 431.7 | 431.2 | 430.3 |
| 20° | 1452.3 | 1314.0 | 894.4 | 549.2 | 428.3 | 410.0 | 405.6 | 407.5 | 409.5 | 408.5 | 408.1 |
| 22.5° | 1535.9 | 1356.6 | 825.2 | 481.0 | 397.9 | 386.7 | 381.9 | 382.4 | 382.4 | 380.5 | 379.5 |
| 25° | 1636.0 | 1403.4 | 752.8 | 432.7 | 374.6 | 365.9 | 360.2 | 358.2 | 355.4 | 349.5 | 348.6 |
| 27.5° | 1755.4 | 1453.2 | 683.1 | 398.8 | 356.3 | 348.1 | 341.3 | 336.5 | 329.2 | 319.6 | 318.6 |
| 30° | 1889.8 | 1513.7 | 624.1 | 377.6 | 341.8 | 333.5 | 325.8 | 318.6 | 307.9 | 295.9 | 294.9 |
| 32.5° | 2047.8 | 1578.5 | 581.1 | 363.6 | 328.7 | 320.0 | 310.9 | 302.2 | 290.6 | 278.5 | 278.9 |
| 35° | 2236.4 | 1656.8 | 556.0 | 353.9 | 318.6 | 307.0 | 296.8 | 287.2 | 278.5 | 267.8 | 266.9 |
| 37.5° | 2440.9 | 1739.9 | 548.3 | 349.0 | 311.8 | 294.0 | 282.3 | 275.5 | 274.6 | 268.3 | 267.8 |
| 40° | 2664.8 | 1838.5 | 554.0 | 346.1 | 304.5 | 281.4 | 268.8 | 267.3 | 269.8 | 258.6 | 259.1 |
| 42.5° | 2901.7 | 1955.5 | 563.8 | 342.8 | 294.4 | 268.8 | 256.7 | 256.7 | 254.8 | 239.3 | 239.3 |
| 45° | 3157.9 | 2090.4 | 573.4 | 334.6 | 282.3 | 256.2 | 247.0 | 243.6 | 235.4 | 220.5 | 220.0 |
| 47.5° | 3416.0 | 2227.7 | 580.7 | 319.6 | 267.8 | 245.6 | 237.4 | 229.6 | 217.5 | 204.0 | 203.6 |
| 50° | 3661.1 | 2351.0 | 572.9 | 297.4 | 251.4 | 235.4 | 226.7 | 216.1 | 203.1 | 193.8 | 192.4 |
| 52.5° | 3880.1 | 2457.8 | 540.0 | 271.2 | 234.0 | 224.8 | 217.1 | 205.9 | 195.3 | 185.6 | 184.7 |
| 55° | 4070.6 | 2544.4 | 482.0 | 246.5 | 218.5 | 215.7 | 207.9 | 193.8 | 179.4 | 171.2 | 170.1 |
| 57.5° | 4253.3 | 2610.2 | 409.5 | 226.2 | 204.5 | 205.5 | 193.8 | 181.3 | 167.8 | 159.1 | 158.1 |
| 60° | 4496.6 | 2698.1 | 336.0 | 207.4 | 189.5 | 192.4 | 179.9 | 170.7 | 153.8 | 142.6 | 141.1 |
| 62.5° | 4885.3 | 2834.9 | 266.9 | 184.2 | 172.1 | 173.1 | 167.8 | 156.6 | 136.3 | 123.3 | 122.3 |
| 65° | 5193.7 | 2784.6 | 210.3 | 159.1 | 152.3 | 153.8 | 153.8 | 141.7 | 119.9 | 104.9 | 103.4 |
| 67.5° | 5158.8 | 2384.4 | 167.8 | 134.4 | 133.5 | 134.4 | 137.8 | 127.6 | 106.4 | 94.3 | 92.4 |
| 70° | 4752.3 | 1896.6 | 134.4 | 111.7 | 116.0 | 113.6 | 123.3 | 116.5 | 95.7 | 83.6 | 82.2 |
| 72.5° | 3877.7 | 1366.2 | 102.5 | 92.4 | 89.0 | 92.9 | 111.2 | 104.9 | 79.7 | 66.2 | 64.8 |
| 75° | 2265.9 | 729.1 | 76.4 | 73.0 | 64.3 | 77.4 | 98.6 | 89.5 | 60.9 | 48.8 | 47.4 |
| 77.5° | 737.7 | 254.3 | 56.1 | 53.7 | 47.9 | 62.3 | 84.2 | 75.4 | 49.8 | 38.6 | 37.2 |
| 80° | 197.7 | 76.9 | 38.2 | 35.3 | 31.0 | 46.4 | 66.7 | 60.0 | 35.8 | 25.1 | 24.7 |
| 82.5° | 79.3 | 32.4 | 22.2 | 19.8 | 16.9 | 31.9 | 52.7 | 48.4 | 26.5 | 16.0 | 16.0 |
| 85° | 25.6 | 10.7 | 8.2 | 6.3 | 7.7 | 19.8 | 31.5 | 32.9 | 18.9 | 8.2 | 6.3 |
| 87.5° | 3.4 | 1.4 | 1.4 | 1.9 | 1.4 | 3.4 | 9.6 | 9.2 | 5.3 | 0.9 | 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)