

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: P960850

Luminaire Tested: **NVN-SB1D-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-730-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7974.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

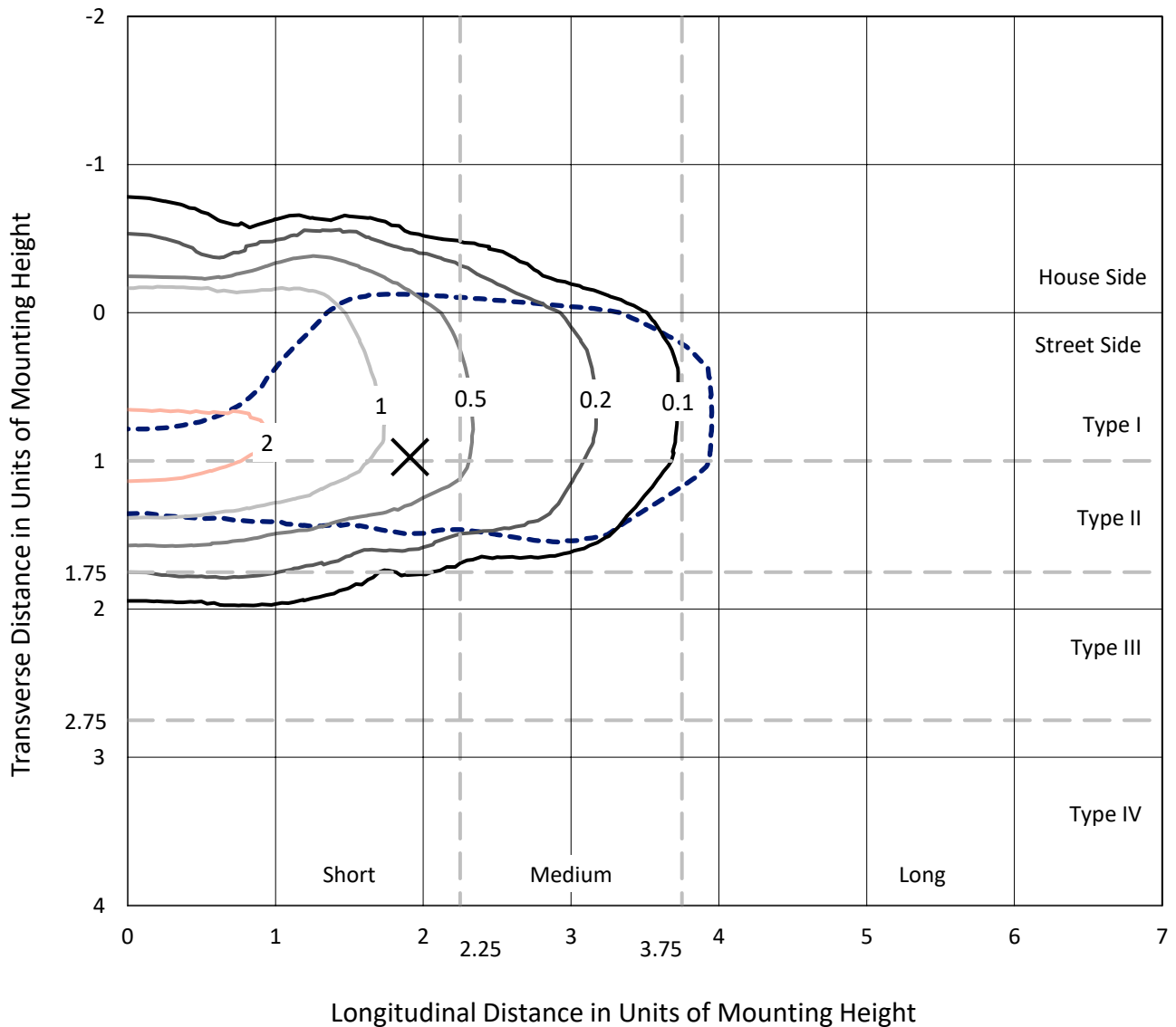
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

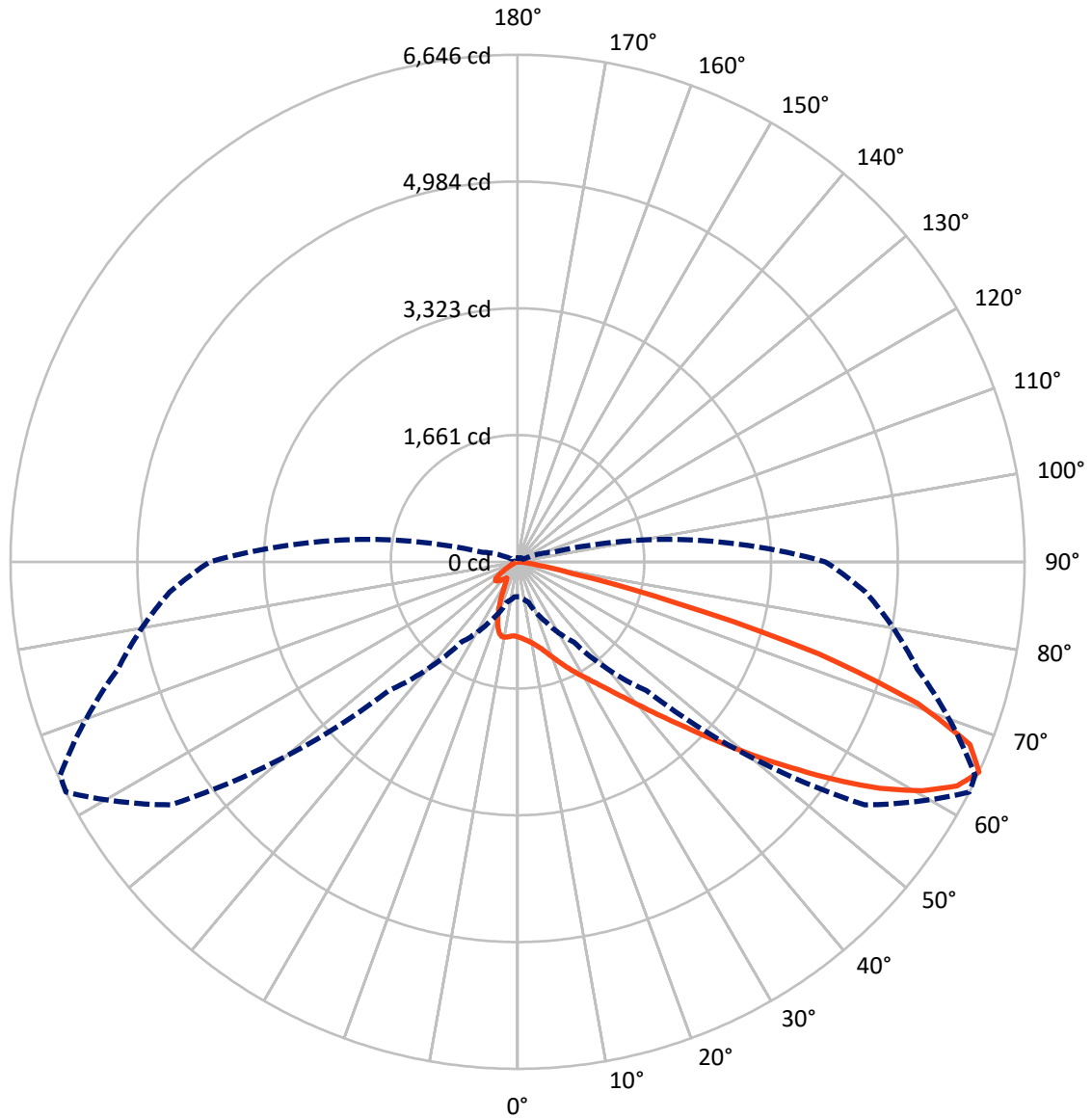
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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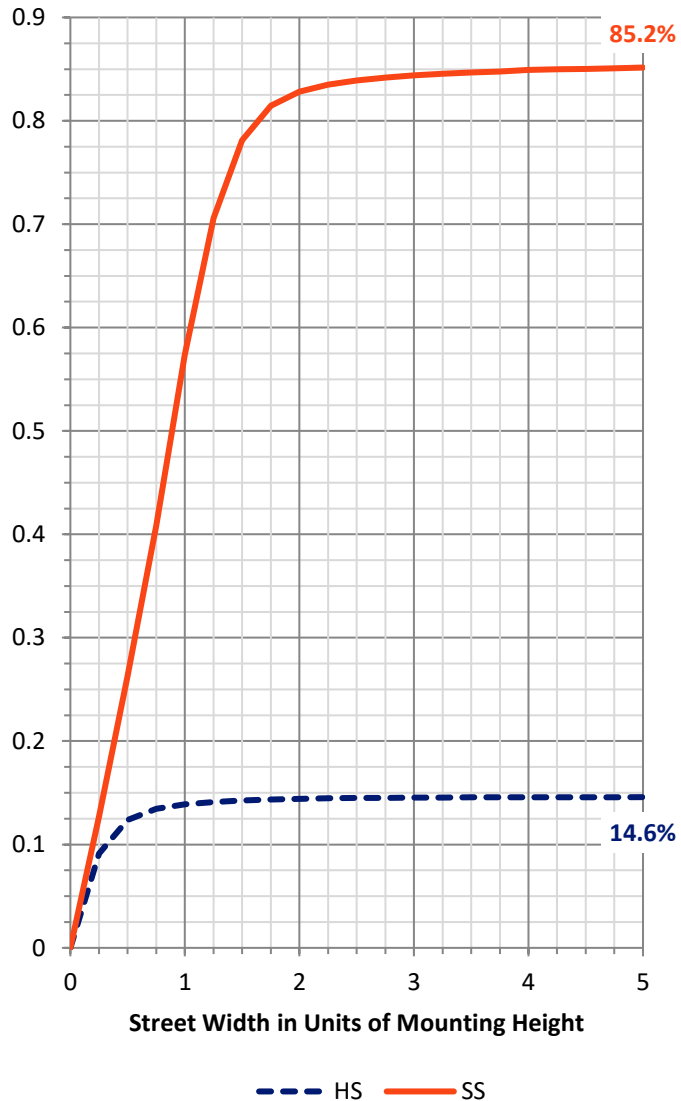
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1172.2 | 0.0 | 1172.2 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 6802.3 | 0.0 | 6802.3 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 7974.5 | 0.0 | 7974.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.7 | 1.2 |
| 10°-20° | 257.3 | 3.2 |
| 20°-30° | 448.0 | 5.6 |
| 30°-40° | 807.5 | 10.1 |
| 40°-50° | 1601.5 | 20.1 |
| 50°-60° | 2181.5 | 27.4 |
| 60°-70° | 1741.3 | 21.8 |
| 70°-80° | 788.0 | 9.9 |
| 80°-90° | 56.6 | 0.7 |
| 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° | 7974.5 | 100.0 |
| 0°-180° | 7974.5 | 100.0 |

Coefficient of Utilization

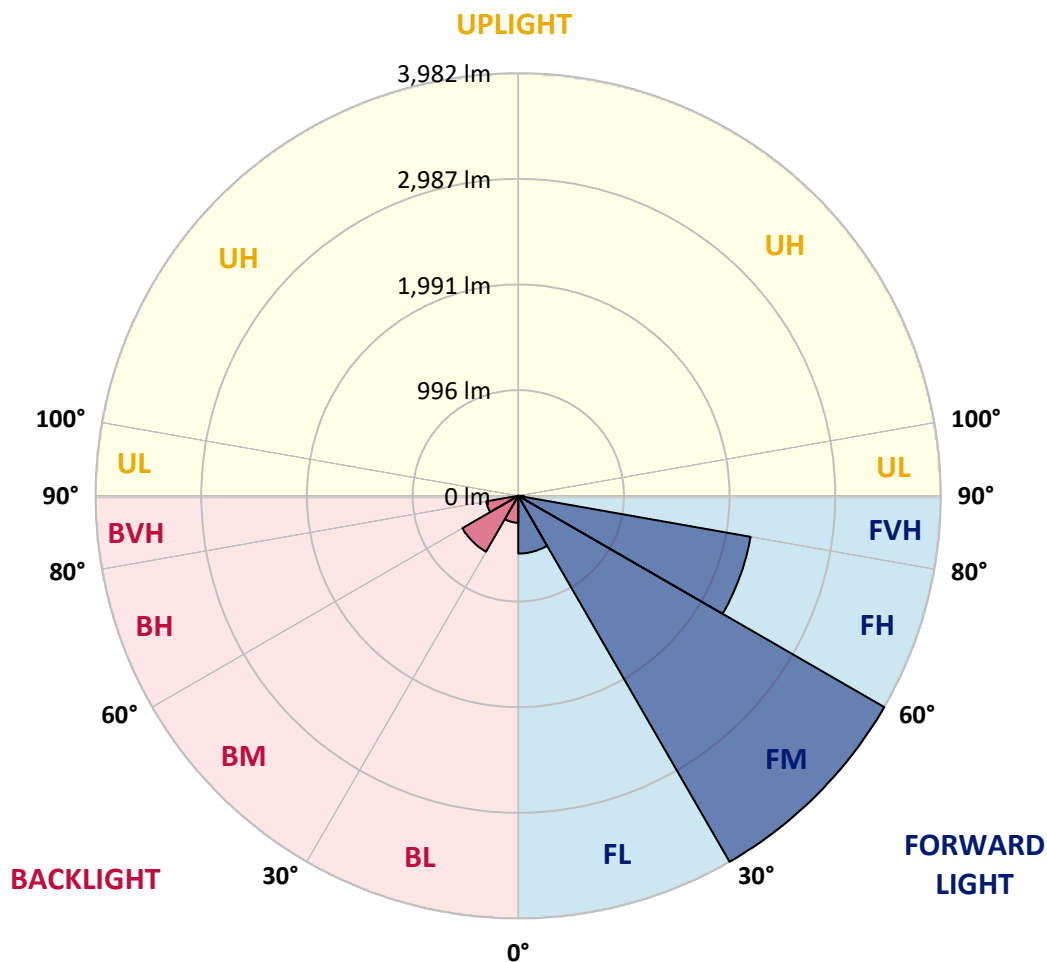


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 544.4 | 6.8 | | | |
| FM (30°-60°) | 3982.3 | 49.9 | | | |
| FH (60°-80°) | 2223.3 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 52.4 | 0.7 | | | G1/100 |
| BL (0°-30°) | 253.7 | 3.2 | B1/500 | | |
| BM (30°-60°) | 608.3 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 306.0 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.2 | 0.1 | | | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 |
| 2.5° | 1007.3 | 1004.5 | 1008.3 | 1006.7 | 1005.6 | 1003.4 | 1002.3 | 1001.2 | 999.1 | 997.3 | 990.8 |
| 5° | 1010.0 | 1008.3 | 1012.2 | 1015.5 | 1018.7 | 1022.0 | 1023.7 | 1025.9 | 1023.7 | 1019.4 | 1012.7 |
| 7.5° | 987.0 | 985.8 | 994.0 | 1004.0 | 1018.7 | 1031.4 | 1045.1 | 1052.8 | 1053.3 | 1051.6 | 1044.6 |
| 10° | 985.3 | 982.6 | 990.8 | 1002.9 | 1022.0 | 1044.6 | 1068.7 | 1085.2 | 1087.3 | 1094.5 | 1086.8 |
| 12.5° | 1011.1 | 1008.3 | 1019.9 | 1033.0 | 1052.8 | 1076.4 | 1106.0 | 1129.0 | 1132.3 | 1142.2 | 1136.7 |
| 15° | 1054.4 | 1050.6 | 1063.7 | 1080.8 | 1106.0 | 1132.8 | 1164.2 | 1185.0 | 1187.8 | 1199.8 | 1189.9 |
| 17.5° | 1104.8 | 1101.1 | 1116.4 | 1134.6 | 1161.9 | 1198.7 | 1234.9 | 1258.0 | 1261.3 | 1268.9 | 1250.8 |
| 20° | 1169.6 | 1164.7 | 1176.8 | 1193.2 | 1222.3 | 1266.2 | 1309.5 | 1342.4 | 1341.9 | 1341.9 | 1312.3 |
| 22.5° | 1244.8 | 1237.1 | 1247.5 | 1260.8 | 1288.1 | 1341.3 | 1398.9 | 1437.9 | 1437.9 | 1422.5 | 1373.7 |
| 25° | 1325.4 | 1317.7 | 1329.3 | 1341.3 | 1365.5 | 1425.9 | 1493.3 | 1541.6 | 1543.8 | 1517.4 | 1439.5 |
| 27.5° | 1426.4 | 1416.6 | 1425.3 | 1439.5 | 1453.9 | 1515.3 | 1595.3 | 1651.3 | 1652.4 | 1611.8 | 1502.1 |
| 30° | 1620.6 | 1592.6 | 1565.2 | 1549.8 | 1556.4 | 1617.3 | 1702.8 | 1764.8 | 1770.4 | 1714.4 | 1570.1 |
| 32.5° | 1976.1 | 1970.6 | 1874.0 | 1747.8 | 1682.0 | 1727.0 | 1823.1 | 1897.7 | 1901.0 | 1829.1 | 1658.4 |
| 35° | 2528.6 | 2521.9 | 2366.7 | 2126.4 | 1911.9 | 1874.0 | 1968.9 | 2057.3 | 2055.1 | 1973.9 | 1773.1 |
| 37.5° | 3188.0 | 3181.9 | 2977.3 | 2655.8 | 2308.5 | 2096.2 | 2157.1 | 2249.9 | 2263.6 | 2157.1 | 1921.3 |
| 40° | 3751.4 | 3728.8 | 3599.4 | 3289.4 | 2835.3 | 2464.9 | 2424.8 | 2486.3 | 2500.6 | 2374.4 | 2109.4 |
| 42.5° | 4178.2 | 4159.0 | 4093.1 | 3899.5 | 3472.7 | 3010.2 | 2740.3 | 2763.9 | 2779.8 | 2628.4 | 2325.5 |
| 45° | 4399.3 | 4394.9 | 4421.2 | 4403.1 | 4122.2 | 3679.5 | 3191.2 | 3093.0 | 3099.1 | 2909.8 | 2570.8 |
| 47.5° | 4430.6 | 4428.4 | 4548.5 | 4718.6 | 4680.8 | 4434.4 | 3770.1 | 3503.4 | 3482.0 | 3227.4 | 2837.4 |
| 50° | 4246.3 | 4241.9 | 4472.3 | 4791.0 | 5053.8 | 5068.6 | 4427.3 | 3965.9 | 3918.7 | 3556.0 | 3115.6 |
| 52.5° | 3657.6 | 3656.5 | 4035.0 | 4565.6 | 5184.9 | 5623.8 | 5076.8 | 4473.9 | 4394.9 | 3903.9 | 3409.6 |
| 55° | 2814.3 | 2834.6 | 3268.6 | 3895.7 | 4945.7 | 5891.0 | 5659.9 | 5037.9 | 4916.6 | 4254.0 | 3680.6 |
| 57.5° | 1993.6 | 2023.2 | 2452.3 | 3010.7 | 4204.0 | 5732.9 | 6054.5 | 5603.0 | 5472.4 | 4602.9 | 3955.5 |
| 60° | 1070.9 | 1097.3 | 1526.7 | 2193.3 | 3127.6 | 5143.8 | 6262.3 | 6093.4 | 5970.0 | 4934.1 | 4203.4 |
| 62.5° | 638.1 | 646.8 | 824.5 | 1415.9 | 2115.4 | 3929.6 | 6174.1 | 6467.0 | 6365.6 | 5212.3 | 4419.1 |
| 65° | 458.1 | 459.7 | 549.2 | 864.6 | 1284.3 | 2387.5 | 5554.7 | 6645.9 | 6614.5 | 5421.9 | 4578.7 |
| 67.5° | 385.7 | 384.6 | 421.9 | 574.4 | 875.0 | 1196.0 | 4257.2 | 6392.9 | 6525.7 | 5554.7 | 4669.2 |
| 70° | 330.8 | 332.4 | 376.4 | 420.8 | 657.7 | 677.0 | 2116.5 | 5566.2 | 5849.3 | 5589.7 | 4663.8 |
| 72.5° | 246.3 | 251.8 | 292.4 | 383.5 | 496.5 | 465.8 | 730.7 | 4127.2 | 4639.0 | 5266.7 | 4421.7 |
| 75° | 173.9 | 176.6 | 205.7 | 322.6 | 370.3 | 339.1 | 373.1 | 2133.5 | 2789.6 | 4037.8 | 3619.2 |
| 77.5° | 133.9 | 138.8 | 155.8 | 225.5 | 364.8 | 238.1 | 228.3 | 738.4 | 1134.6 | 2439.1 | 2481.3 |
| 80° | 72.5 | 81.2 | 112.4 | 163.0 | 256.2 | 168.4 | 113.1 | 294.1 | 384.6 | 1140.5 | 956.7 |
| 82.5° | 37.3 | 41.7 | 78.4 | 117.4 | 146.0 | 147.0 | 56.0 | 122.4 | 158.6 | 352.2 | 131.1 |
| 85° | 14.9 | 18.1 | 52.7 | 64.8 | 75.1 | 72.5 | 25.2 | 49.4 | 57.1 | 97.7 | 40.1 |
| 87.5° | 3.3 | 5.5 | 19.2 | 14.9 | 14.2 | 15.4 | 6.0 | 11.5 | 11.0 | 11.5 | 7.2 |
| 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° | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 | 984.2 |
| 2.5° | 990.3 | 988.0 | 982.1 | 975.4 | 967.7 | 963.4 | 960.6 | 960.0 | 956.2 | 953.5 | 956.2 |
| 5° | 1006.7 | 1004.5 | 993.0 | 979.3 | 964.4 | 952.9 | 942.0 | 932.1 | 917.8 | 915.1 | 914.0 |
| 7.5° | 1039.7 | 1033.6 | 1015.0 | 996.3 | 968.3 | 934.8 | 894.2 | 847.6 | 805.9 | 793.2 | 787.3 |
| 10° | 1080.2 | 1071.9 | 1048.4 | 1015.5 | 953.5 | 862.4 | 764.2 | 673.1 | 600.8 | 580.5 | 572.8 |
| 12.5° | 1126.3 | 1119.2 | 1087.9 | 1026.9 | 891.4 | 726.3 | 576.0 | 463.0 | 392.8 | 375.3 | 370.3 |
| 15° | 1181.1 | 1170.8 | 1127.4 | 1009.4 | 780.6 | 551.9 | 395.5 | 328.6 | 303.4 | 300.1 | 296.8 |
| 17.5° | 1239.3 | 1222.3 | 1162.5 | 946.4 | 631.4 | 392.3 | 305.6 | 286.4 | 275.4 | 272.1 | 270.5 |
| 20° | 1292.5 | 1270.6 | 1183.4 | 850.9 | 471.8 | 305.6 | 273.8 | 261.2 | 251.2 | 247.4 | 245.2 |
| 22.5° | 1345.7 | 1314.5 | 1183.4 | 720.9 | 353.8 | 271.0 | 251.2 | 239.7 | 228.3 | 223.2 | 220.6 |
| 25° | 1401.2 | 1359.5 | 1162.5 | 576.0 | 284.7 | 248.6 | 229.9 | 217.3 | 207.4 | 201.3 | 199.2 |
| 27.5° | 1454.9 | 1397.3 | 1114.8 | 438.9 | 253.5 | 228.8 | 210.1 | 198.0 | 188.7 | 184.3 | 184.3 |
| 30° | 1505.9 | 1434.6 | 1047.9 | 333.0 | 233.2 | 209.6 | 192.0 | 181.6 | 172.3 | 167.9 | 168.4 |
| 32.5° | 1575.0 | 1481.8 | 976.5 | 273.2 | 215.6 | 191.5 | 175.6 | 165.6 | 157.4 | 154.2 | 154.2 |
| 35° | 1671.1 | 1551.4 | 915.1 | 268.2 | 200.8 | 176.6 | 160.7 | 151.4 | 143.2 | 140.4 | 140.4 |
| 37.5° | 1807.1 | 1663.9 | 882.7 | 301.1 | 188.7 | 163.5 | 148.6 | 138.8 | 131.1 | 128.9 | 128.3 |
| 40° | 1975.0 | 1816.4 | 900.3 | 334.2 | 180.5 | 152.0 | 137.7 | 127.8 | 121.3 | 118.5 | 118.0 |
| 42.5° | 2174.1 | 2004.6 | 997.3 | 359.4 | 175.0 | 142.1 | 127.3 | 116.3 | 111.9 | 110.8 | 110.8 |
| 45° | 2402.9 | 2211.4 | 1146.1 | 386.2 | 166.3 | 132.7 | 116.8 | 108.6 | 105.4 | 104.8 | 104.2 |
| 47.5° | 2663.0 | 2438.6 | 1318.4 | 419.6 | 157.4 | 124.0 | 108.6 | 103.1 | 100.3 | 99.3 | 99.3 |
| 50° | 2920.8 | 2667.4 | 1495.5 | 438.3 | 150.4 | 115.7 | 102.1 | 97.7 | 95.4 | 94.9 | 94.9 |
| 52.5° | 3190.7 | 2902.7 | 1638.7 | 420.8 | 144.3 | 109.2 | 96.6 | 93.3 | 91.0 | 90.5 | 90.5 |
| 55° | 3448.0 | 3093.0 | 1663.4 | 357.1 | 132.2 | 102.6 | 90.5 | 88.9 | 86.1 | 86.1 | 85.6 |
| 57.5° | 3669.6 | 3188.5 | 1488.9 | 262.2 | 120.1 | 92.8 | 84.5 | 82.8 | 80.7 | 80.1 | 79.5 |
| 60° | 3873.2 | 3161.1 | 1149.3 | 176.6 | 107.0 | 82.8 | 76.8 | 75.7 | 73.5 | 70.7 | 70.2 |
| 62.5° | 3987.9 | 3040.4 | 786.2 | 115.2 | 93.8 | 72.5 | 68.1 | 67.4 | 62.5 | 57.1 | 56.0 |
| 65° | 4031.2 | 2792.4 | 490.5 | 83.9 | 78.4 | 62.0 | 58.7 | 57.6 | 50.4 | 44.5 | 43.9 |
| 67.5° | 3993.3 | 2384.3 | 247.4 | 66.4 | 62.0 | 51.6 | 48.3 | 48.3 | 43.4 | 37.8 | 37.3 |
| 70° | 3841.9 | 1787.4 | 104.2 | 53.2 | 47.8 | 39.5 | 39.5 | 41.7 | 36.8 | 30.7 | 30.1 |
| 72.5° | 3513.3 | 1202.5 | 55.5 | 40.6 | 35.7 | 28.0 | 32.4 | 34.0 | 29.1 | 23.1 | 23.1 |
| 75° | 2792.9 | 733.5 | 38.4 | 30.1 | 22.4 | 19.8 | 24.7 | 25.8 | 19.8 | 15.4 | 14.9 |
| 77.5° | 1910.3 | 421.4 | 25.8 | 19.2 | 14.2 | 11.5 | 17.0 | 15.9 | 10.5 | 7.2 | 7.7 |
| 80° | 838.9 | 175.6 | 14.9 | 8.8 | 5.5 | 4.4 | 6.0 | 4.4 | 3.3 | 2.2 | 2.2 |
| 82.5° | 98.2 | 41.1 | 5.5 | 3.3 | 2.2 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 20.3 | 4.9 | 2.8 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.8 | 1.1 | 0.5 | 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)