

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: LUMARK

Report Number: P963479

Luminaire Tested: **NAV-SB3A-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-730-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10528.8 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

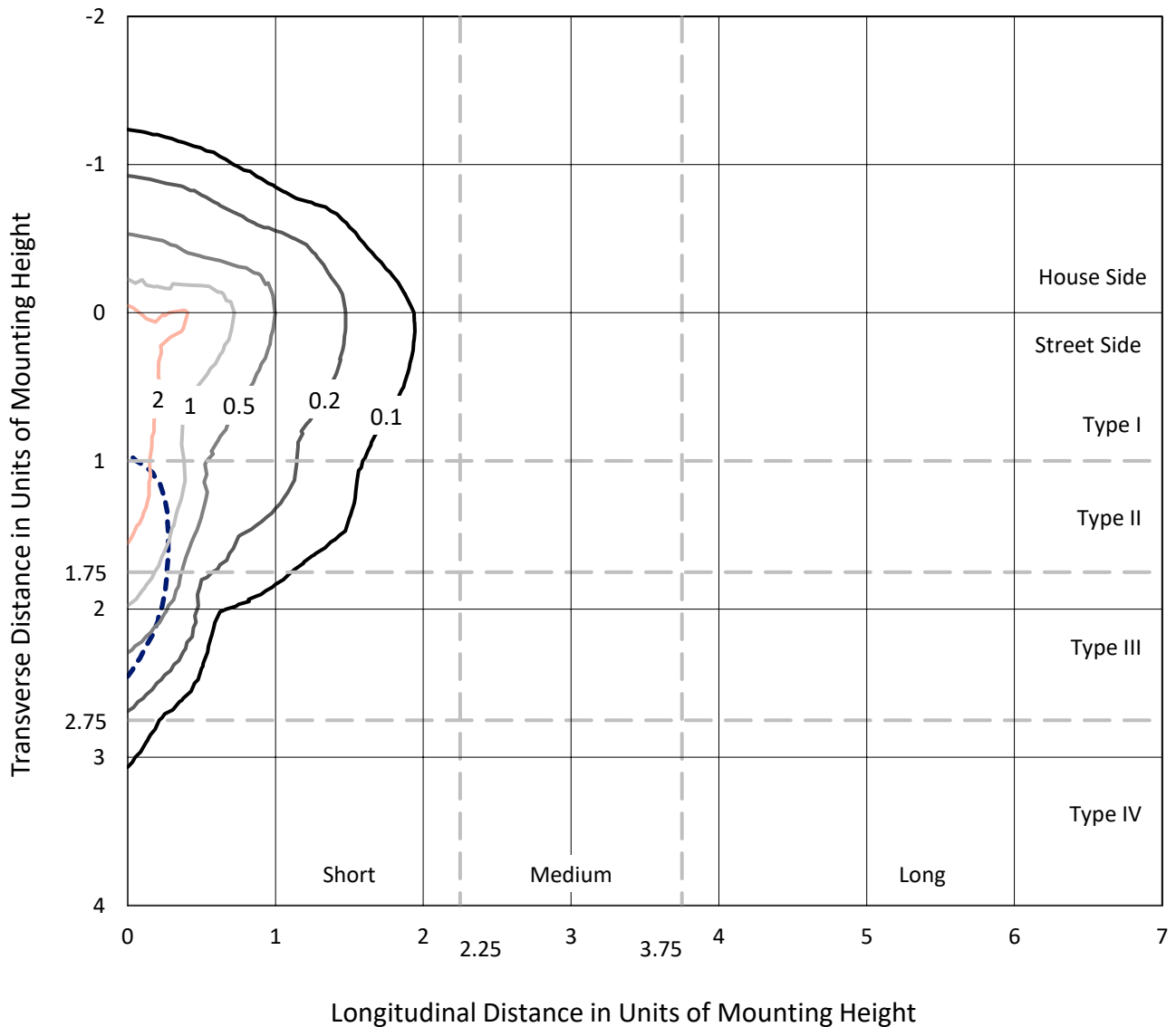
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963479
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Iso-Footcandle Lines of Horizontal Illumination

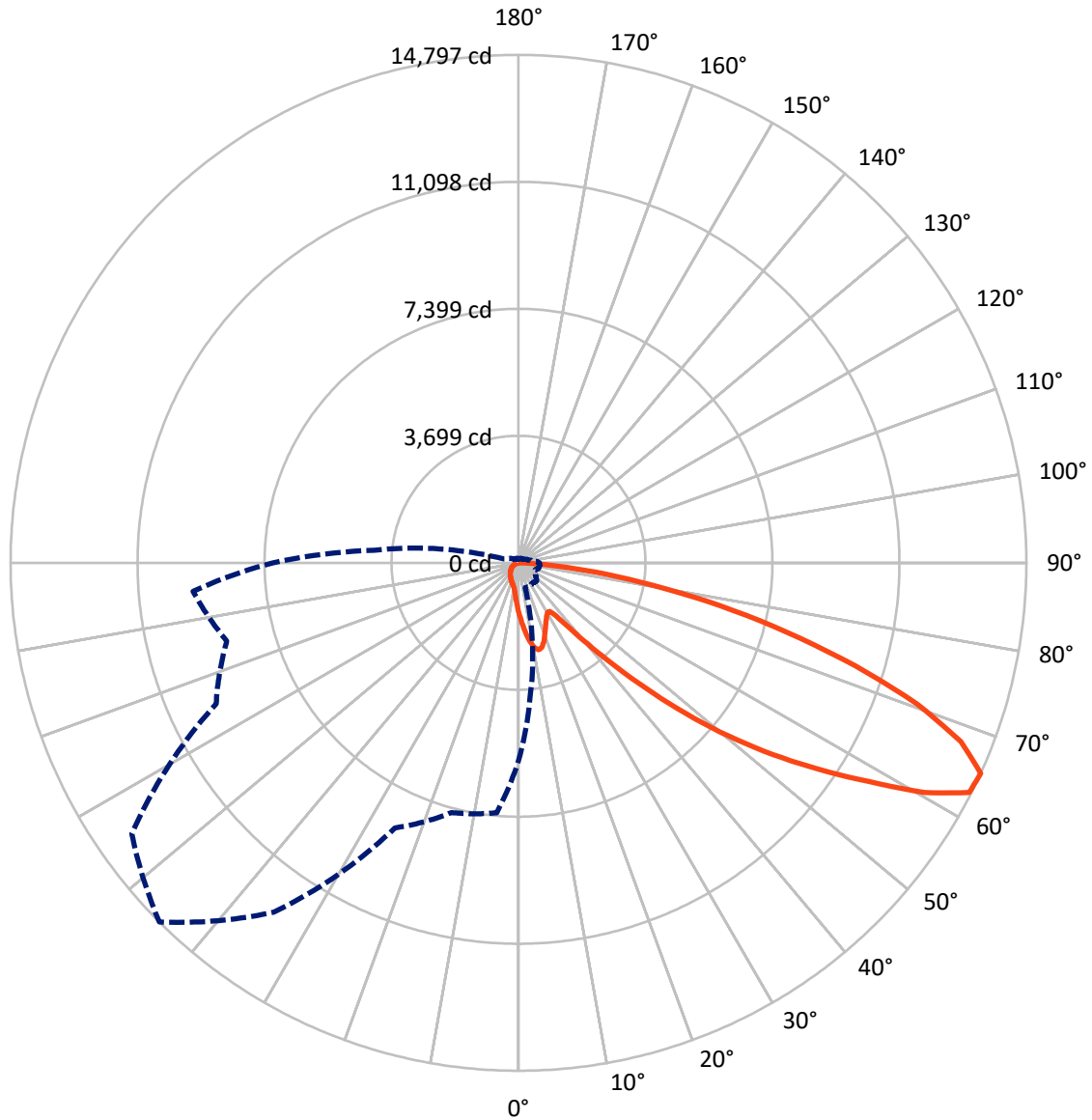
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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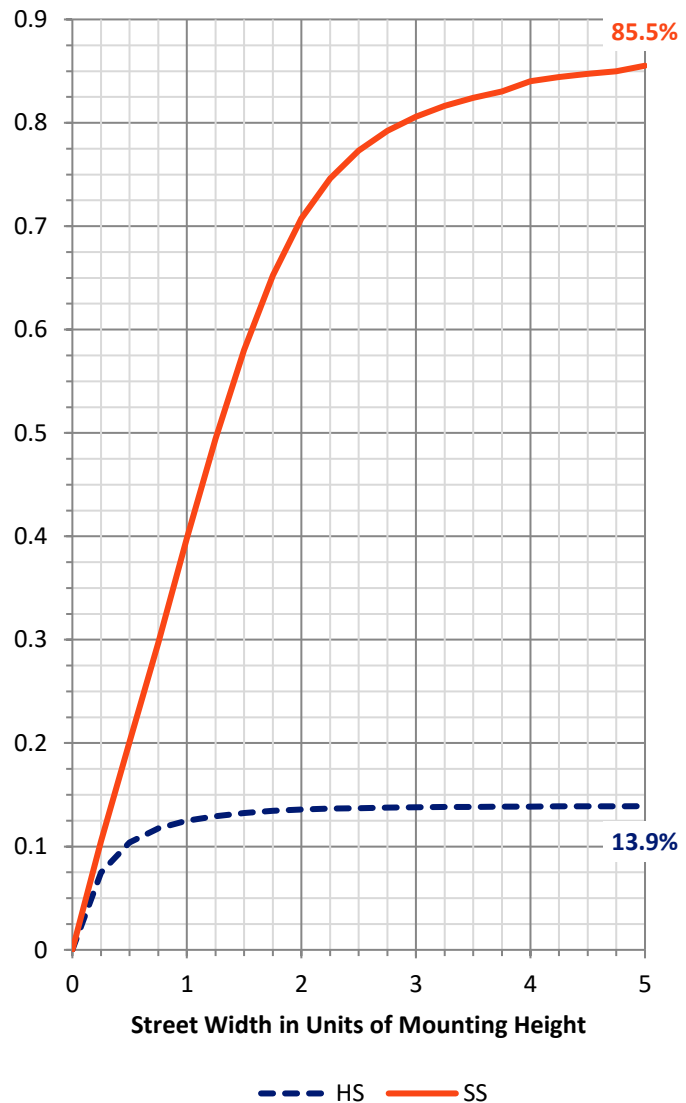
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1474.5 | 0.0 | 1474.5 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 9054.3 | 0.0 | 9054.3 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 10528.8 | 0.0 | 10528.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 143.5 | 1.4 |
| 10°-20° | 430.3 | 4.1 |
| 20°-30° | 633.9 | 6.0 |
| 30°-40° | 814.4 | 7.7 |
| 40°-50° | 1317.1 | 12.5 |
| 50°-60° | 2309.6 | 21.9 |
| 60°-70° | 2890.0 | 27.4 |
| 70°-80° | 1688.8 | 16.0 |
| 80°-90° | 301.3 | 2.9 |
| 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° | 10528.8 | 100.0 |
| 0°-180° | 10528.8 | 100.0 |

Coefficient of Utilization



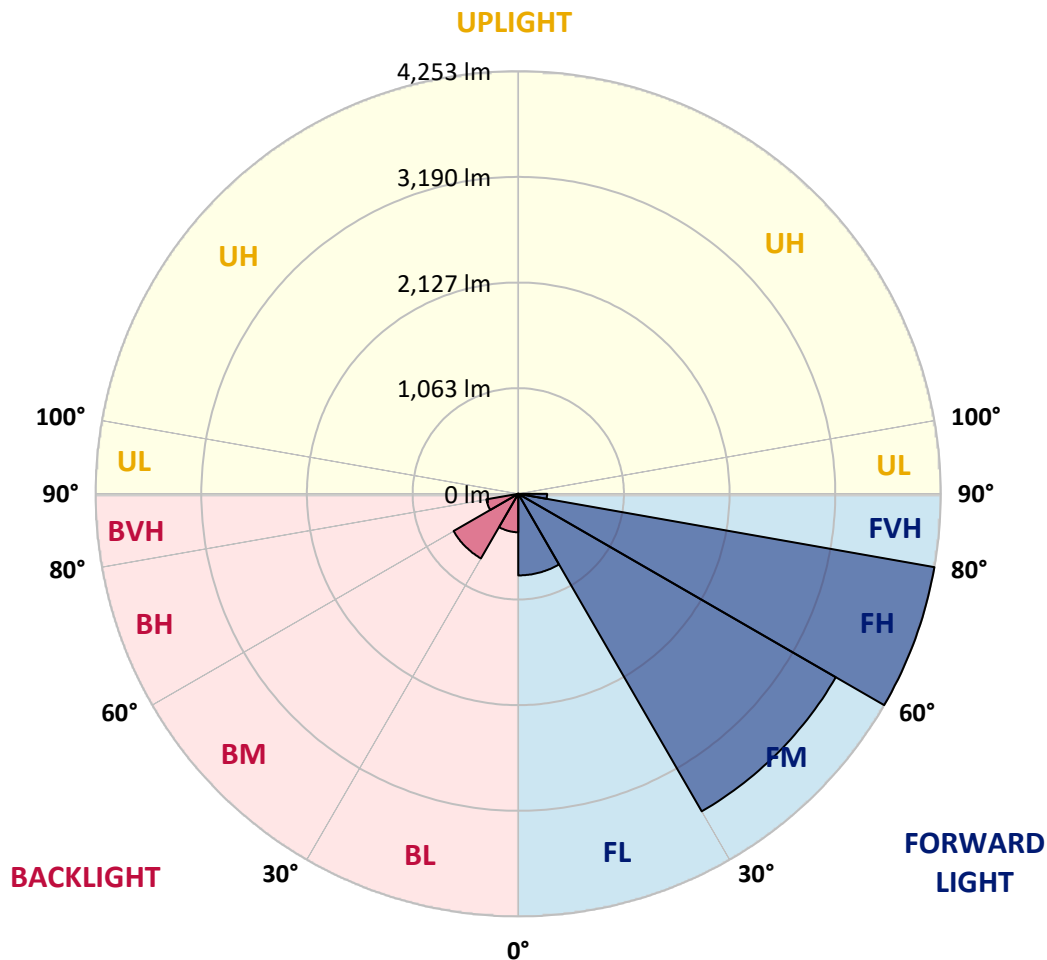
REPORT NUMBER: P963479
 CATALOG NUMBER: NAV-SB3A-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 821.2 | 7.8 | | | |
| FM (30°-60°) | 3690.2 | 35.0 | | | |
| FH (60°-80°) | 4253.2 | 40.4 | | | G2/5000 |
| FVH (80°-90°) | 289.7 | 2.8 | | | G3/500 |
| BL (0°-30°) | 386.5 | 3.7 | B1/500 | | |
| BM (30°-60°) | 750.8 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 325.6 | 3.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P963479
 CATALOG NUMBER: NAV-SB3A-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 |
| 2.5° | 1647.2 | 1618.9 | 1602.3 | 1560.9 | 1519.6 | 1486.1 | 1441.3 | 1411.5 | 1376.0 | 1341.8 | 1311.4 |
| 5° | 1835.8 | 1790.1 | 1735.0 | 1659.6 | 1590.6 | 1520.3 | 1452.1 | 1384.7 | 1313.5 | 1248.2 | 1208.4 |
| 7.5° | 1995.4 | 1929.4 | 1832.2 | 1732.0 | 1644.3 | 1559.4 | 1479.7 | 1390.4 | 1304.1 | 1201.8 | 1147.5 |
| 10° | 2117.2 | 2033.1 | 1905.5 | 1774.2 | 1673.3 | 1587.7 | 1510.1 | 1434.7 | 1347.7 | 1224.4 | 1156.2 |
| 12.5° | 2191.2 | 2101.2 | 1949.7 | 1795.9 | 1680.6 | 1584.9 | 1524.6 | 1491.3 | 1457.1 | 1334.6 | 1254.8 |
| 15° | 2245.6 | 2148.4 | 1980.8 | 1811.2 | 1663.9 | 1546.4 | 1502.1 | 1535.6 | 1574.7 | 1496.3 | 1404.2 |
| 17.5° | 2302.1 | 2200.0 | 2021.5 | 1817.6 | 1618.9 | 1471.7 | 1452.8 | 1539.1 | 1629.9 | 1626.2 | 1534.8 |
| 20° | 2355.9 | 2254.3 | 2057.0 | 1813.3 | 1546.4 | 1381.0 | 1397.7 | 1508.0 | 1613.1 | 1657.3 | 1608.0 |
| 22.5° | 2417.5 | 2310.1 | 2091.1 | 1796.6 | 1452.1 | 1296.1 | 1348.4 | 1458.7 | 1550.7 | 1603.0 | 1587.7 |
| 25° | 2492.9 | 2380.6 | 2139.0 | 1771.9 | 1350.5 | 1225.8 | 1298.4 | 1401.3 | 1476.0 | 1512.3 | 1511.6 |
| 27.5° | 2574.2 | 2464.6 | 2202.8 | 1758.9 | 1268.6 | 1175.8 | 1241.8 | 1333.1 | 1399.8 | 1425.3 | 1425.3 |
| 30° | 2675.0 | 2562.6 | 2278.3 | 1744.4 | 1214.9 | 1146.8 | 1183.1 | 1254.1 | 1319.4 | 1344.8 | 1344.8 |
| 32.5° | 2785.2 | 2671.4 | 2350.7 | 1709.6 | 1182.2 | 1124.9 | 1125.7 | 1170.7 | 1230.1 | 1260.6 | 1265.0 |
| 35° | 2923.1 | 2801.9 | 2428.4 | 1633.4 | 1156.2 | 1099.6 | 1069.9 | 1091.6 | 1140.9 | 1177.2 | 1186.6 |
| 37.5° | 3119.6 | 2973.1 | 2523.4 | 1524.6 | 1117.8 | 1060.5 | 1011.1 | 1016.2 | 1053.9 | 1093.8 | 1108.3 |
| 40° | 3390.9 | 3203.0 | 2635.1 | 1411.5 | 1062.6 | 1005.3 | 946.6 | 944.3 | 971.9 | 1011.1 | 1027.0 |
| 42.5° | 3757.9 | 3506.9 | 2769.2 | 1303.4 | 1009.6 | 938.6 | 878.3 | 874.7 | 896.5 | 930.6 | 947.3 |
| 45° | 4242.4 | 3895.7 | 2934.0 | 1210.5 | 968.3 | 873.3 | 813.8 | 812.3 | 830.5 | 860.3 | 877.6 |
| 47.5° | 4862.6 | 4436.1 | 3098.6 | 1147.5 | 946.6 | 821.7 | 760.9 | 763.7 | 779.7 | 806.6 | 818.9 |
| 50° | 5665.5 | 5140.4 | 3148.6 | 1115.5 | 946.6 | 794.3 | 713.7 | 728.3 | 741.3 | 761.6 | 768.9 |
| 52.5° | 6628.1 | 5816.4 | 2983.3 | 1086.5 | 952.3 | 797.9 | 673.8 | 705.0 | 714.4 | 731.8 | 734.7 |
| 55° | 7520.1 | 6147.8 | 2564.8 | 1046.6 | 953.8 | 820.3 | 639.7 | 686.1 | 703.6 | 710.1 | 709.4 |
| 57.5° | 8038.0 | 6034.0 | 2073.7 | 979.2 | 948.0 | 835.6 | 618.0 | 663.0 | 696.3 | 700.7 | 694.1 |
| 60° | 7939.4 | 5634.3 | 1526.8 | 927.7 | 905.2 | 829.7 | 611.4 | 627.4 | 680.4 | 686.9 | 678.1 |
| 62.5° | 7179.3 | 4964.1 | 1059.7 | 887.8 | 810.9 | 804.4 | 609.3 | 571.5 | 645.5 | 661.5 | 649.1 |
| 65° | 5770.6 | 3908.0 | 748.6 | 764.4 | 710.8 | 749.3 | 597.7 | 513.5 | 603.5 | 625.2 | 606.4 |
| 67.5° | 4186.6 | 2644.5 | 540.4 | 619.4 | 644.1 | 660.0 | 571.5 | 471.5 | 555.6 | 584.7 | 560.0 |
| 70° | 2686.6 | 1428.1 | 379.4 | 409.1 | 542.5 | 560.7 | 526.5 | 433.8 | 507.0 | 540.4 | 513.5 |
| 72.5° | 1909.8 | 843.6 | 272.8 | 286.5 | 435.9 | 467.1 | 463.5 | 391.7 | 450.4 | 491.1 | 459.1 |
| 75° | 1317.9 | 464.9 | 184.2 | 204.6 | 316.2 | 379.4 | 357.6 | 336.5 | 381.5 | 422.9 | 391.7 |
| 77.5° | 826.2 | 208.2 | 110.3 | 142.2 | 207.5 | 298.1 | 245.2 | 260.3 | 297.4 | 335.8 | 303.2 |
| 80° | 459.8 | 80.5 | 61.6 | 94.3 | 113.2 | 216.9 | 135.6 | 167.6 | 219.0 | 246.6 | 220.5 |
| 82.5° | 100.1 | 10.1 | 27.6 | 40.6 | 44.3 | 126.2 | 71.9 | 97.2 | 137.9 | 135.6 | 117.5 |
| 85° | 0.0 | 0.0 | 5.1 | 5.8 | 2.9 | 54.4 | 26.1 | 31.9 | 45.0 | 42.0 | 31.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 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 |

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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 |
| 2.5° | 1305.5 | 1270.1 | 1243.9 | 1230.9 | 1220.0 | 1230.1 | 1235.9 | 1235.9 | 1260.6 | 1275.1 | 1280.9 |
| 5° | 1183.1 | 1119.2 | 1070.6 | 1037.9 | 1018.3 | 1024.9 | 1032.2 | 1040.1 | 1071.3 | 1092.3 | 1106.1 |
| 7.5° | 1098.2 | 1000.2 | 926.2 | 880.6 | 856.6 | 860.3 | 865.3 | 871.9 | 902.3 | 923.3 | 941.5 |
| 10° | 1082.2 | 941.5 | 837.0 | 776.8 | 747.8 | 742.7 | 739.8 | 737.7 | 755.8 | 771.7 | 786.3 |
| 12.5° | 1147.5 | 944.3 | 798.6 | 725.3 | 689.8 | 674.6 | 657.1 | 643.4 | 646.3 | 656.4 | 674.6 |
| 15° | 1264.2 | 981.3 | 786.3 | 698.5 | 654.3 | 628.8 | 608.5 | 591.8 | 588.2 | 591.8 | 594.8 |
| 17.5° | 1397.7 | 1031.5 | 784.8 | 675.3 | 620.1 | 594.1 | 577.4 | 562.1 | 557.1 | 557.8 | 561.4 |
| 20° | 1486.1 | 1071.3 | 780.4 | 649.1 | 587.5 | 564.3 | 549.8 | 534.5 | 529.5 | 530.9 | 531.7 |
| 22.5° | 1494.9 | 1092.3 | 773.9 | 620.1 | 554.8 | 535.3 | 520.8 | 507.0 | 506.2 | 506.2 | 510.7 |
| 25° | 1447.7 | 1092.3 | 760.1 | 594.1 | 523.7 | 506.2 | 493.2 | 476.5 | 479.4 | 480.9 | 486.7 |
| 27.5° | 1374.5 | 1066.2 | 734.0 | 573.0 | 496.8 | 478.7 | 465.7 | 450.4 | 454.1 | 456.2 | 462.8 |
| 30° | 1302.0 | 1032.9 | 702.8 | 549.1 | 471.5 | 450.4 | 441.0 | 427.9 | 429.4 | 432.2 | 439.5 |
| 32.5° | 1234.5 | 997.3 | 665.8 | 529.5 | 446.1 | 425.1 | 417.8 | 403.2 | 405.5 | 408.4 | 416.4 |
| 35° | 1167.8 | 958.2 | 622.3 | 506.2 | 422.9 | 401.8 | 396.1 | 379.4 | 380.8 | 385.2 | 393.8 |
| 37.5° | 1095.9 | 916.8 | 586.8 | 483.1 | 400.4 | 378.6 | 372.8 | 355.4 | 356.9 | 361.9 | 372.1 |
| 40° | 1020.5 | 876.2 | 552.0 | 458.4 | 376.5 | 354.6 | 349.6 | 330.8 | 332.2 | 338.0 | 348.9 |
| 42.5° | 944.3 | 832.0 | 525.1 | 426.5 | 351.8 | 328.6 | 323.5 | 306.1 | 308.2 | 314.8 | 325.6 |
| 45° | 874.0 | 779.0 | 507.7 | 390.9 | 328.6 | 302.5 | 297.4 | 281.5 | 285.8 | 293.0 | 303.9 |
| 47.5° | 813.8 | 724.6 | 500.5 | 361.2 | 303.9 | 275.6 | 271.3 | 258.2 | 265.5 | 273.5 | 282.2 |
| 50° | 762.3 | 672.4 | 491.1 | 330.8 | 280.7 | 252.5 | 248.0 | 239.3 | 248.8 | 256.8 | 264.8 |
| 52.5° | 725.3 | 612.9 | 470.8 | 303.2 | 260.3 | 232.9 | 231.3 | 227.0 | 235.7 | 243.0 | 250.2 |
| 55° | 693.4 | 551.2 | 438.1 | 279.2 | 242.2 | 216.2 | 217.6 | 215.5 | 222.6 | 228.5 | 235.0 |
| 57.5° | 664.4 | 497.5 | 396.8 | 260.3 | 222.6 | 201.6 | 206.0 | 203.1 | 206.7 | 210.3 | 218.3 |
| 60° | 629.6 | 443.2 | 347.5 | 239.3 | 199.5 | 187.2 | 192.2 | 184.2 | 183.5 | 184.9 | 187.2 |
| 62.5° | 578.1 | 369.9 | 295.9 | 213.2 | 179.2 | 171.2 | 173.3 | 158.2 | 146.5 | 146.5 | 148.7 |
| 65° | 506.2 | 297.4 | 248.0 | 184.2 | 155.9 | 149.4 | 148.0 | 126.2 | 110.3 | 108.8 | 115.3 |
| 67.5° | 422.9 | 244.5 | 206.0 | 155.2 | 129.9 | 125.5 | 126.9 | 111.0 | 95.0 | 93.6 | 100.9 |
| 70° | 344.5 | 202.3 | 166.0 | 124.0 | 100.1 | 104.4 | 111.0 | 95.0 | 79.7 | 77.6 | 84.2 |
| 72.5° | 279.9 | 161.0 | 129.9 | 95.0 | 74.0 | 86.3 | 94.3 | 77.6 | 63.1 | 61.6 | 67.4 |
| 75° | 216.2 | 118.2 | 92.9 | 64.6 | 53.7 | 66.7 | 74.0 | 56.6 | 45.0 | 42.8 | 47.9 |
| 77.5° | 144.3 | 73.3 | 52.2 | 40.6 | 31.9 | 45.7 | 49.3 | 29.7 | 26.1 | 25.4 | 29.0 |
| 80° | 87.7 | 34.1 | 22.4 | 19.6 | 10.9 | 16.7 | 19.6 | 12.3 | 13.7 | 14.6 | 17.4 |
| 82.5° | 44.3 | 9.4 | 3.6 | 0.7 | 0.0 | 0.0 | 5.8 | 2.9 | 5.8 | 7.3 | 10.9 |
| 85° | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 3.6 | 6.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 0° | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 |
| 2.5° | 1321.5 | 1352.0 | 1381.0 | 1427.4 | 1475.3 | 1522.4 | 1570.3 | 1616.7 | 1633.4 | 1645.7 | 1673.3 |
| 5° | 1169.2 | 1226.5 | 1293.2 | 1385.4 | 1484.0 | 1585.6 | 1688.6 | 1782.9 | 1825.6 | 1854.6 | 1919.9 |
| 7.5° | 1011.8 | 1086.5 | 1182.2 | 1320.8 | 1475.3 | 1637.0 | 1798.8 | 1947.5 | 2016.4 | 2072.2 | 2171.7 |
| 10° | 855.9 | 937.2 | 1058.2 | 1216.4 | 1425.3 | 1657.3 | 1880.8 | 2085.3 | 2174.5 | 2244.9 | 2379.7 |
| 12.5° | 718.8 | 795.0 | 921.9 | 1096.6 | 1347.0 | 1641.4 | 1927.9 | 2173.8 | 2279.0 | 2358.0 | 2506.0 |
| 15° | 622.3 | 676.0 | 788.4 | 977.0 | 1254.1 | 1589.9 | 1930.8 | 2215.8 | 2331.2 | 2413.9 | 2542.3 |
| 17.5° | 568.7 | 586.8 | 660.0 | 855.2 | 1151.1 | 1522.4 | 1903.9 | 2230.4 | 2353.7 | 2430.6 | 2519.8 |
| 20° | 539.7 | 542.5 | 562.8 | 697.0 | 1019.1 | 1459.4 | 1878.6 | 2244.9 | 2374.7 | 2439.3 | 2466.1 |
| 22.5° | 516.4 | 516.4 | 521.5 | 570.1 | 848.6 | 1384.0 | 1870.6 | 2270.3 | 2403.7 | 2443.6 | 2388.5 |
| 25° | 495.4 | 495.4 | 496.8 | 509.9 | 672.4 | 1268.6 | 1865.5 | 2309.4 | 2443.6 | 2454.5 | 2302.9 |
| 27.5° | 473.7 | 474.4 | 474.4 | 481.6 | 541.8 | 1111.9 | 1843.8 | 2360.2 | 2491.5 | 2469.0 | 2221.0 |
| 30° | 451.9 | 453.4 | 453.4 | 458.4 | 479.4 | 928.4 | 1801.0 | 2421.2 | 2553.9 | 2487.9 | 2139.7 |
| 32.5° | 430.1 | 431.5 | 431.5 | 435.9 | 451.1 | 741.3 | 1747.3 | 2477.0 | 2616.9 | 2495.9 | 2064.2 |
| 35° | 407.6 | 409.8 | 408.4 | 414.2 | 430.1 | 589.7 | 1679.2 | 2532.9 | 2685.2 | 2521.2 | 2027.2 |
| 37.5° | 385.2 | 386.6 | 385.9 | 391.7 | 409.8 | 509.2 | 1600.0 | 2574.9 | 2778.0 | 2577.8 | 2071.5 |
| 40° | 362.6 | 361.9 | 361.9 | 368.5 | 388.1 | 486.0 | 1500.7 | 2641.6 | 2911.4 | 2677.2 | 2264.4 |
| 42.5° | 339.5 | 339.5 | 338.0 | 345.2 | 369.2 | 468.5 | 1405.7 | 2761.4 | 3105.9 | 2835.3 | 2606.8 |
| 45° | 318.5 | 317.6 | 314.8 | 321.3 | 351.1 | 438.1 | 1372.3 | 2984.7 | 3393.1 | 3091.3 | 3021.0 |
| 47.5° | 298.1 | 297.4 | 290.2 | 295.9 | 329.3 | 410.5 | 1497.1 | 3350.3 | 3791.3 | 3467.8 | 3409.0 |
| 50° | 279.9 | 280.7 | 266.9 | 272.0 | 307.5 | 389.5 | 1767.6 | 3824.7 | 4320.1 | 3974.7 | 3776.7 |
| 52.5° | 263.3 | 263.3 | 245.2 | 248.0 | 280.7 | 370.6 | 2025.1 | 4338.9 | 5017.8 | 4682.0 | 4205.5 |
| 55° | 246.6 | 245.2 | 224.9 | 226.3 | 253.9 | 343.8 | 2063.5 | 4840.8 | 5969.4 | 5746.0 | 4791.5 |
| 57.5° | 227.8 | 224.9 | 206.0 | 206.0 | 229.2 | 324.2 | 1788.6 | 5226.7 | 7150.3 | 7309.8 | 5636.5 |
| 60° | 204.6 | 202.3 | 190.0 | 186.4 | 209.6 | 341.6 | 1262.1 | 5271.7 | 7911.9 | 9389.3 | 7254.7 |
| 62.5° | 174.8 | 177.7 | 171.2 | 166.0 | 190.8 | 354.6 | 747.8 | 4909.8 | 7727.6 | 10050.8 | 9192.7 |
| 65° | 137.9 | 149.4 | 148.0 | 144.3 | 209.6 | 298.8 | 441.7 | 4214.9 | 7162.6 | 9517.0 | 8797.5 |
| 67.5° | 117.5 | 125.5 | 123.3 | 123.3 | 219.8 | 227.0 | 277.8 | 3293.0 | 6385.0 | 8883.8 | 7858.2 |
| 70° | 100.1 | 108.0 | 100.1 | 100.1 | 166.0 | 137.9 | 192.2 | 2299.3 | 5545.9 | 8183.1 | 7241.6 |
| 72.5° | 82.7 | 90.7 | 82.0 | 76.2 | 132.7 | 103.0 | 140.7 | 1436.8 | 4749.4 | 7453.4 | 6819.5 |
| 75° | 63.1 | 72.6 | 66.0 | 58.7 | 87.7 | 76.9 | 106.6 | 834.9 | 3934.9 | 6377.0 | 6218.2 |
| 77.5° | 39.9 | 52.2 | 49.3 | 41.3 | 64.6 | 55.9 | 76.9 | 496.8 | 3036.3 | 4982.9 | 5348.6 |
| 80° | 24.7 | 26.9 | 27.6 | 26.1 | 37.0 | 37.7 | 52.2 | 282.9 | 2078.1 | 3472.8 | 4178.6 |
| 82.5° | 16.0 | 16.0 | 12.3 | 13.7 | 18.1 | 21.7 | 29.7 | 106.6 | 1221.5 | 2114.4 | 2908.5 |
| 85° | 11.6 | 10.1 | 6.6 | 6.6 | 8.7 | 10.9 | 11.6 | 32.6 | 495.4 | 834.9 | 1137.3 |
| 87.5° | 5.8 | 5.1 | 2.2 | 2.9 | 4.3 | 3.6 | 2.9 | 1.4 | 124.7 | 266.9 | 187.2 |
| 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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|-------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 | 1457.9 |
| 2.5° | 1687.9 | 1710.3 | 1711.7 | 1711.7 | 1692.2 | 1691.5 | 1651.6 | 1647.2 |
| 5° | 1987.4 | 2001.9 | 2005.5 | 1998.2 | 1959.1 | 1930.1 | 1852.5 | 1835.8 |
| 7.5° | 2261.6 | 2290.6 | 2290.6 | 2273.1 | 2209.4 | 2149.8 | 2037.4 | 1995.4 |
| 10° | 2480.6 | 2514.0 | 2506.7 | 2471.2 | 2390.7 | 2308.7 | 2172.4 | 2117.2 |
| 12.5° | 2587.2 | 2621.3 | 2602.5 | 2561.9 | 2483.5 | 2397.2 | 2253.6 | 2191.2 |
| 15° | 2585.0 | 2575.6 | 2556.0 | 2550.9 | 2513.3 | 2448.0 | 2313.8 | 2245.6 |
| 17.5° | 2492.9 | 2413.2 | 2397.9 | 2448.7 | 2496.6 | 2480.6 | 2366.0 | 2302.1 |
| 20° | 2347.1 | 2207.8 | 2194.1 | 2291.3 | 2427.6 | 2497.3 | 2414.6 | 2355.9 |
| 22.5° | 2193.4 | 2043.2 | 2011.4 | 2118.7 | 2324.0 | 2502.3 | 2476.3 | 2417.5 |
| 25° | 2047.5 | 1896.8 | 1864.8 | 1964.9 | 2208.6 | 2493.6 | 2543.0 | 2492.9 |
| 27.5° | 1925.8 | 1779.9 | 1750.2 | 1850.3 | 2097.7 | 2469.0 | 2609.8 | 2574.2 |
| 30° | 1831.5 | 1696.6 | 1674.7 | 1771.2 | 2001.9 | 2438.6 | 2694.6 | 2675.0 |
| 32.5° | 1776.3 | 1677.7 | 1685.6 | 1764.7 | 1950.4 | 2405.2 | 2775.8 | 2785.2 |
| 35° | 1830.8 | 1835.1 | 1904.7 | 1937.4 | 1998.2 | 2400.1 | 2886.1 | 2923.1 |
| 37.5° | 2101.2 | 2252.1 | 2396.4 | 2369.6 | 2232.6 | 2458.9 | 3050.7 | 3119.6 |
| 40° | 2561.9 | 2871.5 | 3105.9 | 3003.6 | 2658.3 | 2638.8 | 3287.9 | 3390.9 |
| 42.5° | 3124.7 | 3649.8 | 4035.7 | 3761.5 | 3207.4 | 2953.5 | 3626.7 | 3757.9 |
| 45° | 3718.7 | 4609.4 | 5217.2 | 4647.1 | 3792.7 | 3394.5 | 4139.5 | 4242.4 |
| 47.5° | 4344.7 | 5775.8 | 6562.0 | 5629.2 | 4335.2 | 3896.4 | 4838.6 | 4862.6 |
| 50° | 5029.4 | 7054.5 | 7932.9 | 6610.6 | 4858.9 | 4471.7 | 5693.1 | 5665.5 |
| 52.5° | 5681.5 | 8369.5 | 9274.7 | 7596.3 | 5318.8 | 5185.4 | 6684.6 | 6628.1 |
| 55° | 6303.7 | 9683.8 | 10624.5 | 8543.6 | 5752.5 | 6128.3 | 7862.5 | 7520.1 |
| 57.5° | 7025.5 | 10865.3 | 12015.8 | 9495.2 | 6358.9 | 7352.6 | 9179.7 | 8038.0 |
| 60° | 8092.5 | 12208.0 | 13588.9 | 10799.4 | 7512.2 | 8639.3 | 9651.9 | 7939.4 |
| 62.5° | 9454.6 | 13442.5 | 14732.8 | 12077.4 | 8670.6 | 8881.6 | 8956.3 | 7179.3 |
| 65° | 9719.4 | 13755.1 | 14797.3 | 12419.0 | 8521.1 | 7534.0 | 7312.0 | 5770.6 |
| 67.5° | 9017.2 | 13190.0 | 13895.0 | 11782.9 | 7537.5 | 5822.2 | 5487.0 | 4186.6 |
| 70° | 8229.5 | 12112.9 | 12322.6 | 10701.4 | 6629.5 | 4282.3 | 3705.7 | 2686.6 |
| 72.5° | 7422.2 | 10676.1 | 10242.3 | 9293.6 | 5826.5 | 3118.2 | 2672.8 | 1909.8 |
| 75° | 6463.3 | 8786.6 | 8067.8 | 7721.8 | 4824.2 | 2447.3 | 1933.8 | 1317.9 |
| 77.5° | 5175.9 | 6184.8 | 5992.7 | 5985.4 | 3625.2 | 1787.9 | 1290.4 | 826.2 |
| 80° | 3651.3 | 4013.9 | 3916.0 | 4507.8 | 2432.0 | 1296.8 | 776.8 | 459.8 |
| 82.5° | 1767.6 | 2219.5 | 2278.3 | 2684.5 | 1183.1 | 763.0 | 179.2 | 100.1 |
| 85° | 692.0 | 1070.6 | 903.0 | 1019.1 | 332.2 | 212.5 | 4.3 | 0.0 |
| 87.5° | 77.6 | 124.0 | 113.9 | 89.9 | 40.6 | 8.7 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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