

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: P961379

Luminaire Tested: **NAV-SB2A-730-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9111.2 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

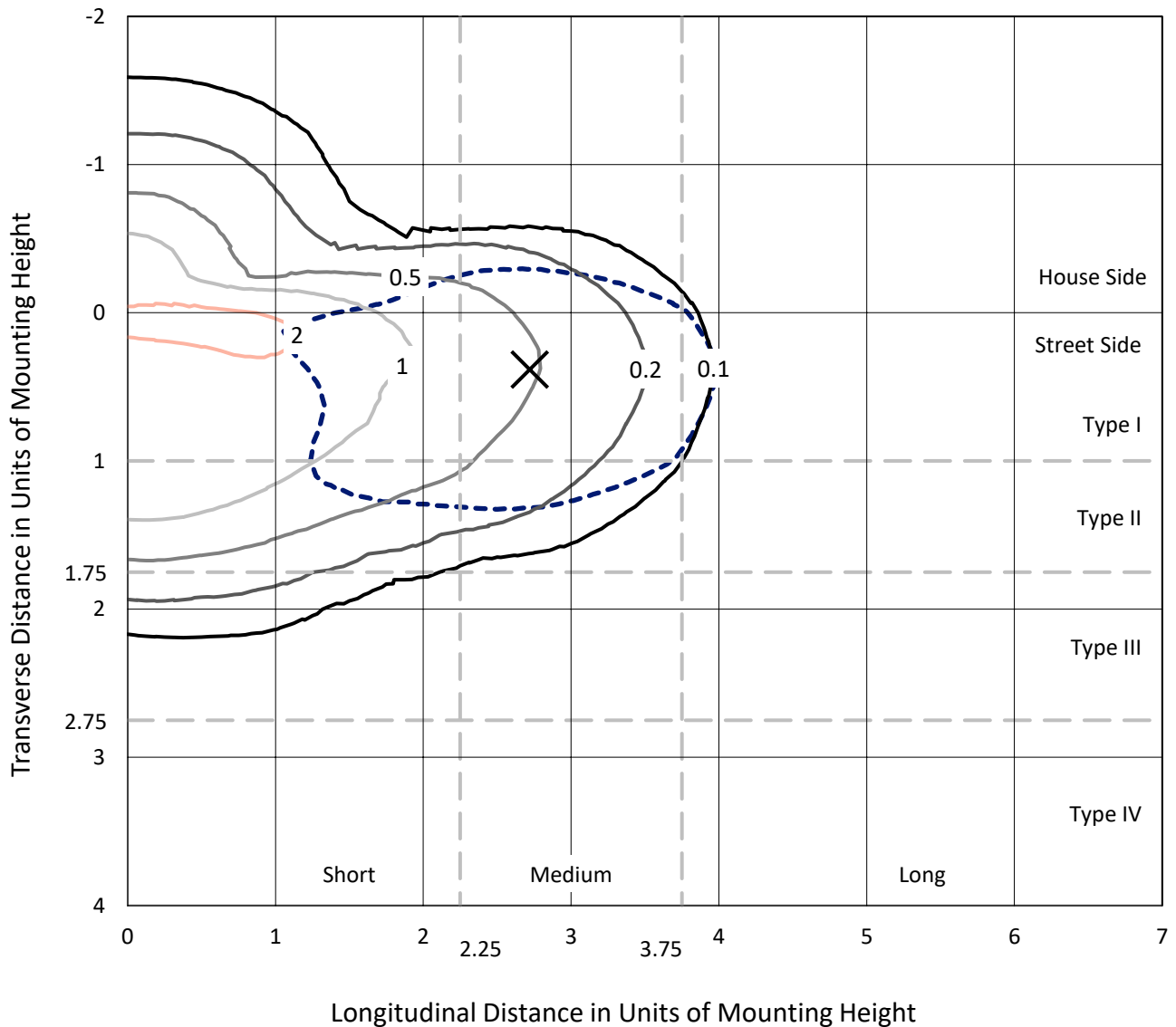
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

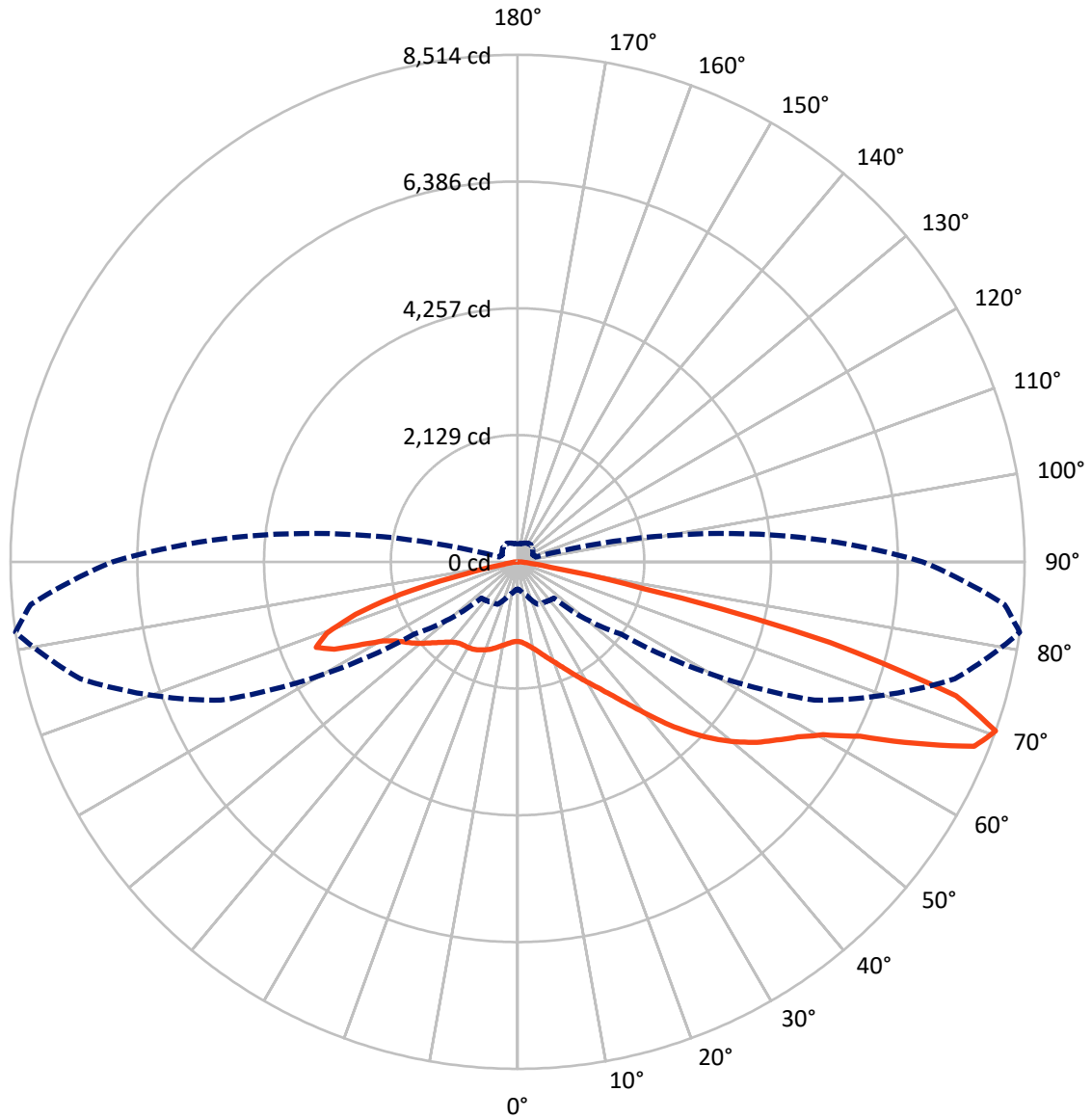
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2246.1 | 0.0 | 2246.1 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 6865.1 | 0.0 | 6865.1 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 9111.2 | 0.0 | 9111.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.1 | 1.4 |
| 10°-20° | 362.4 | 4.0 |
| 20°-30° | 606.2 | 6.7 |
| 30°-40° | 947.0 | 10.4 |
| 40°-50° | 1508.3 | 16.6 |
| 50°-60° | 2099.0 | 23.0 |
| 60°-70° | 2195.6 | 24.1 |
| 70°-80° | 1147.5 | 12.6 |
| 80°-90° | 119.2 | 1.3 |
| 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° | 9111.2 | 100.0 |
| 0°-180° | 9111.2 | 100.0 |

Coefficient of Utilization

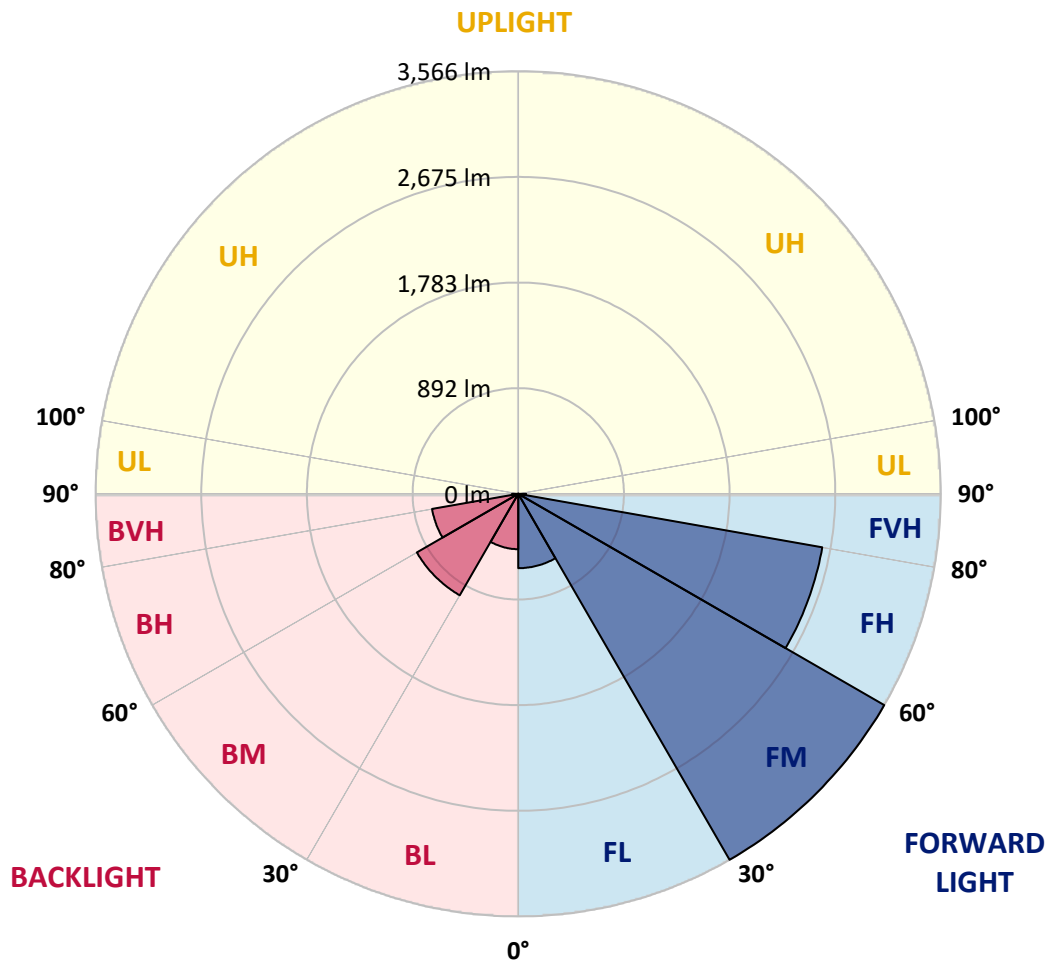


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 627.4 | 6.9 | | | |
| FM (30°-60°) | 3566.0 | 39.1 | | | |
| FH (60°-80°) | 2604.9 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 66.7 | 0.7 | | | G1/100 |
| BL (0°-30°) | 467.3 | 5.1 | B1/500 | | |
| BM (30°-60°) | 988.2 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 738.2 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 52.4 | 0.6 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 |
| 2.5° | 1367.8 | 1375.4 | 1373.1 | 1370.6 | 1370.6 | 1367.2 | 1366.7 | 1361.9 | 1358.0 | 1351.8 | 1350.3 |
| 5° | 1385.1 | 1393.4 | 1392.4 | 1394.3 | 1400.6 | 1402.1 | 1403.5 | 1400.6 | 1392.9 | 1385.1 | 1381.7 |
| 7.5° | 1369.7 | 1378.8 | 1381.7 | 1393.4 | 1412.7 | 1430.1 | 1443.2 | 1448.4 | 1441.3 | 1430.1 | 1424.7 |
| 10° | 1317.4 | 1327.6 | 1337.7 | 1365.3 | 1399.6 | 1440.7 | 1475.6 | 1496.3 | 1494.9 | 1484.2 | 1475.1 |
| 12.5° | 1211.6 | 1222.2 | 1243.9 | 1297.6 | 1360.5 | 1432.9 | 1497.7 | 1541.3 | 1556.3 | 1548.6 | 1532.6 |
| 15° | 1127.0 | 1136.1 | 1152.6 | 1207.7 | 1289.4 | 1399.6 | 1506.0 | 1590.6 | 1628.8 | 1624.4 | 1605.1 |
| 17.5° | 1124.5 | 1128.4 | 1138.6 | 1164.7 | 1227.5 | 1347.5 | 1497.3 | 1639.0 | 1712.0 | 1711.4 | 1687.3 |
| 20° | 1167.1 | 1168.5 | 1174.3 | 1179.7 | 1215.4 | 1307.8 | 1475.1 | 1679.1 | 1805.2 | 1805.2 | 1779.2 |
| 22.5° | 1226.1 | 1225.1 | 1230.9 | 1226.1 | 1243.4 | 1304.4 | 1461.0 | 1714.4 | 1909.2 | 1917.0 | 1884.1 |
| 25° | 1314.6 | 1309.7 | 1308.3 | 1297.1 | 1300.5 | 1335.8 | 1476.5 | 1754.5 | 2032.5 | 2048.5 | 2007.4 |
| 27.5° | 1432.5 | 1424.7 | 1419.4 | 1393.8 | 1385.1 | 1400.6 | 1523.9 | 1802.9 | 2169.8 | 2197.4 | 2145.1 |
| 30° | 1586.3 | 1572.2 | 1564.5 | 1520.0 | 1488.6 | 1491.0 | 1595.4 | 1867.1 | 2313.4 | 2357.9 | 2291.6 |
| 32.5° | 1796.1 | 1774.3 | 1753.6 | 1680.5 | 1623.0 | 1604.1 | 1687.8 | 1956.1 | 2469.0 | 2540.2 | 2455.1 |
| 35° | 2031.0 | 2013.6 | 1991.4 | 1878.7 | 1790.3 | 1746.8 | 1812.5 | 2080.3 | 2651.4 | 2764.0 | 2653.3 |
| 37.5° | 2257.4 | 2242.3 | 2253.0 | 2101.1 | 1987.1 | 1923.7 | 1975.9 | 2247.1 | 2876.1 | 3042.5 | 2901.8 |
| 40° | 2491.3 | 2479.7 | 2481.1 | 2336.1 | 2203.1 | 2132.1 | 2174.1 | 2456.5 | 3133.8 | 3373.6 | 3200.6 |
| 42.5° | 2745.6 | 2737.0 | 2707.9 | 2579.3 | 2429.9 | 2363.6 | 2402.4 | 2698.2 | 3410.4 | 3750.8 | 3528.4 |
| 45° | 3030.4 | 3025.1 | 2998.0 | 2850.5 | 2679.4 | 2604.9 | 2657.1 | 2965.1 | 3688.4 | 4105.6 | 3857.6 |
| 47.5° | 3276.4 | 3280.8 | 3277.4 | 3153.2 | 2975.8 | 2866.5 | 2928.8 | 3243.6 | 3947.1 | 4439.2 | 4173.3 |
| 50° | 3394.9 | 3417.7 | 3451.0 | 3412.3 | 3302.0 | 3190.9 | 3202.9 | 3512.4 | 4193.6 | 4752.0 | 4476.0 |
| 52.5° | 3333.0 | 3376.0 | 3467.0 | 3528.9 | 3571.4 | 3548.1 | 3515.7 | 3779.3 | 4425.6 | 5034.4 | 4762.2 |
| 55° | 3102.4 | 3162.8 | 3313.7 | 3463.1 | 3680.2 | 3848.9 | 3891.4 | 4075.2 | 4652.0 | 5282.8 | 5032.9 |
| 57.5° | 2682.3 | 2780.4 | 2915.8 | 3218.0 | 3583.5 | 3994.4 | 4329.5 | 4485.6 | 4891.7 | 5548.2 | 5316.2 |
| 60° | 1962.0 | 2093.5 | 2261.7 | 2711.3 | 3245.0 | 3916.5 | 4702.2 | 5116.1 | 5232.5 | 5892.0 | 5685.1 |
| 62.5° | 1255.5 | 1336.8 | 1491.5 | 1915.0 | 2528.6 | 3517.7 | 4816.3 | 5904.1 | 5810.3 | 6455.8 | 6238.2 |
| 65° | 859.6 | 911.8 | 1053.5 | 1291.3 | 1634.6 | 2618.5 | 4510.7 | 6494.9 | 6727.9 | 7349.1 | 7183.8 |
| 67.5° | 624.6 | 664.3 | 785.2 | 993.5 | 1065.1 | 1549.5 | 3500.3 | 6467.9 | 7620.0 | 8269.7 | 8012.5 |
| 70° | 455.4 | 483.5 | 585.0 | 785.2 | 819.5 | 862.0 | 2120.5 | 5498.0 | 7600.6 | 8514.4 | 8206.4 |
| 72.5° | 337.4 | 356.8 | 425.0 | 609.2 | 663.3 | 582.1 | 1049.6 | 3995.9 | 6531.2 | 7701.1 | 7454.1 |
| 75° | 244.2 | 258.6 | 308.9 | 466.1 | 530.8 | 443.3 | 523.6 | 2335.2 | 4555.7 | 5417.2 | 5460.8 |
| 77.5° | 186.7 | 197.7 | 230.6 | 341.3 | 425.0 | 332.6 | 324.9 | 1074.3 | 2160.1 | 2170.7 | 2292.6 |
| 80° | 149.9 | 157.1 | 175.0 | 240.3 | 325.8 | 249.0 | 211.8 | 433.7 | 682.6 | 577.8 | 606.3 |
| 82.5° | 110.2 | 122.3 | 147.9 | 168.7 | 233.0 | 171.6 | 129.0 | 219.0 | 259.6 | 223.3 | 225.3 |
| 85° | 62.8 | 71.0 | 89.5 | 120.8 | 148.9 | 105.0 | 74.0 | 97.2 | 120.8 | 99.1 | 88.5 |
| 87.5° | 22.2 | 29.0 | 31.5 | 47.4 | 64.8 | 43.6 | 28.5 | 28.1 | 39.7 | 29.5 | 24.7 |
| 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° | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 | 1335.8 |
| 2.5° | 1345.5 | 1343.1 | 1333.4 | 1320.3 | 1306.8 | 1293.8 | 1289.4 | 1280.2 | 1274.0 | 1270.6 | 1274.4 |
| 5° | 1372.6 | 1364.8 | 1342.1 | 1313.1 | 1282.7 | 1249.8 | 1226.5 | 1205.3 | 1189.8 | 1175.3 | 1181.1 |
| 7.5° | 1411.2 | 1397.7 | 1358.5 | 1307.8 | 1253.7 | 1199.0 | 1158.4 | 1127.4 | 1106.7 | 1093.2 | 1096.0 |
| 10° | 1456.2 | 1435.4 | 1375.4 | 1299.6 | 1216.0 | 1137.6 | 1089.8 | 1063.1 | 1050.1 | 1042.8 | 1044.8 |
| 12.5° | 1508.0 | 1478.5 | 1392.9 | 1280.7 | 1158.4 | 1069.0 | 1036.1 | 1028.4 | 1028.8 | 1029.3 | 1030.2 |
| 15° | 1571.7 | 1530.6 | 1406.9 | 1239.6 | 1083.4 | 1016.3 | 1010.4 | 1023.1 | 1036.1 | 1042.3 | 1041.9 |
| 17.5° | 1643.8 | 1585.8 | 1409.3 | 1171.9 | 1009.9 | 982.4 | 1000.8 | 1027.9 | 1047.7 | 1056.4 | 1058.3 |
| 20° | 1721.2 | 1641.8 | 1391.9 | 1076.1 | 949.6 | 954.9 | 987.7 | 1022.5 | 1044.3 | 1055.4 | 1058.3 |
| 22.5° | 1809.6 | 1701.8 | 1350.3 | 975.6 | 900.3 | 924.9 | 963.5 | 997.4 | 1020.1 | 1031.3 | 1034.1 |
| 25° | 1910.7 | 1769.0 | 1285.0 | 891.0 | 857.7 | 891.0 | 929.7 | 957.8 | 976.1 | 986.3 | 989.1 |
| 27.5° | 2022.8 | 1839.2 | 1198.0 | 823.8 | 820.4 | 856.2 | 888.2 | 909.9 | 919.5 | 927.3 | 930.2 |
| 30° | 2135.5 | 1902.9 | 1092.6 | 773.1 | 788.0 | 821.8 | 844.6 | 854.3 | 857.2 | 858.6 | 862.0 |
| 32.5° | 2257.4 | 1958.1 | 982.0 | 731.0 | 757.1 | 788.5 | 802.1 | 806.5 | 792.8 | 783.7 | 786.6 |
| 35° | 2404.8 | 2017.0 | 873.6 | 697.6 | 726.6 | 753.7 | 758.1 | 754.2 | 738.2 | 719.4 | 720.4 |
| 37.5° | 2587.0 | 2090.5 | 787.1 | 673.9 | 698.1 | 716.1 | 710.7 | 709.7 | 711.1 | 688.9 | 690.4 |
| 40° | 2810.3 | 2186.2 | 723.8 | 655.6 | 675.0 | 678.8 | 663.8 | 672.0 | 679.3 | 645.4 | 646.4 |
| 42.5° | 3058.4 | 2301.7 | 683.6 | 643.0 | 655.6 | 646.4 | 623.2 | 632.4 | 631.4 | 586.9 | 586.4 |
| 45° | 3311.3 | 2427.5 | 669.6 | 633.9 | 637.7 | 619.3 | 593.7 | 596.1 | 575.8 | 535.7 | 537.1 |
| 47.5° | 3562.7 | 2562.4 | 678.3 | 626.1 | 615.4 | 594.7 | 574.8 | 564.2 | 534.2 | 504.3 | 504.3 |
| 50° | 3809.2 | 2704.1 | 710.2 | 610.6 | 585.0 | 572.9 | 558.4 | 539.6 | 507.7 | 482.1 | 480.1 |
| 52.5° | 4037.9 | 2846.6 | 746.0 | 585.0 | 546.8 | 554.0 | 544.9 | 523.2 | 491.7 | 465.6 | 466.1 |
| 55° | 4254.5 | 2989.3 | 760.0 | 549.7 | 511.1 | 537.6 | 532.3 | 492.2 | 454.5 | 433.2 | 431.2 |
| 57.5° | 4490.4 | 3160.9 | 744.6 | 504.7 | 482.1 | 518.8 | 498.5 | 454.0 | 432.2 | 416.3 | 414.8 |
| 60° | 4817.3 | 3430.2 | 711.1 | 449.2 | 454.5 | 490.8 | 455.9 | 437.6 | 413.9 | 396.0 | 395.0 |
| 62.5° | 5360.2 | 3932.5 | 657.5 | 394.0 | 422.1 | 449.2 | 435.6 | 417.3 | 393.1 | 375.7 | 375.7 |
| 65° | 6162.7 | 4630.6 | 556.5 | 351.0 | 385.8 | 408.6 | 413.9 | 395.4 | 370.3 | 352.0 | 352.9 |
| 67.5° | 6839.6 | 5068.6 | 421.1 | 315.2 | 348.6 | 375.7 | 390.6 | 372.8 | 346.1 | 328.3 | 328.7 |
| 70° | 6802.4 | 4750.6 | 321.5 | 279.9 | 315.7 | 343.3 | 362.6 | 348.6 | 320.0 | 303.1 | 304.6 |
| 72.5° | 6041.9 | 3974.1 | 260.1 | 244.2 | 282.4 | 309.4 | 332.6 | 322.0 | 292.9 | 276.5 | 276.5 |
| 75° | 4438.7 | 2821.0 | 207.9 | 207.9 | 240.8 | 274.1 | 299.7 | 292.9 | 266.4 | 254.8 | 251.4 |
| 77.5° | 1871.0 | 1183.6 | 163.0 | 172.6 | 200.2 | 235.4 | 267.3 | 269.8 | 246.6 | 261.1 | 236.9 |
| 80° | 497.5 | 326.4 | 124.2 | 135.8 | 157.1 | 194.3 | 232.6 | 231.5 | 206.4 | 192.9 | 179.4 |
| 82.5° | 189.5 | 128.6 | 88.5 | 95.7 | 113.6 | 148.9 | 184.2 | 190.0 | 164.8 | 142.6 | 142.6 |
| 85° | 73.0 | 55.1 | 54.6 | 57.5 | 66.2 | 98.6 | 139.2 | 144.1 | 124.2 | 105.4 | 108.8 |
| 87.5° | 18.9 | 16.4 | 20.3 | 19.4 | 30.4 | 52.7 | 79.7 | 82.7 | 76.0 | 44.0 | 62.8 |
| 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)