

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: P970333

Luminaire Tested: **NAV-SB6B-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970333
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: LUMARK
Catalog Number: NAV-SB6B-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA 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: 25558.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

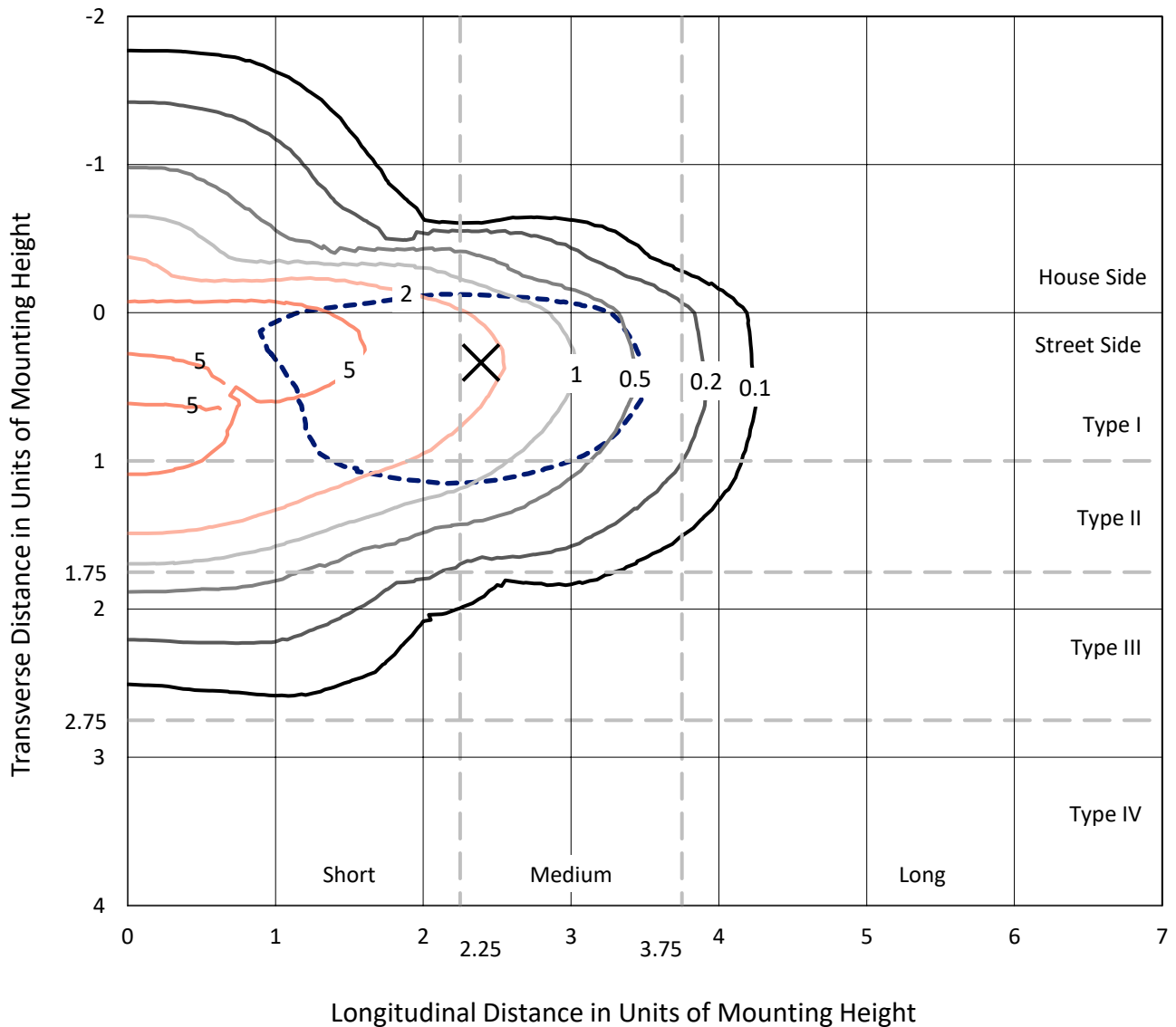
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

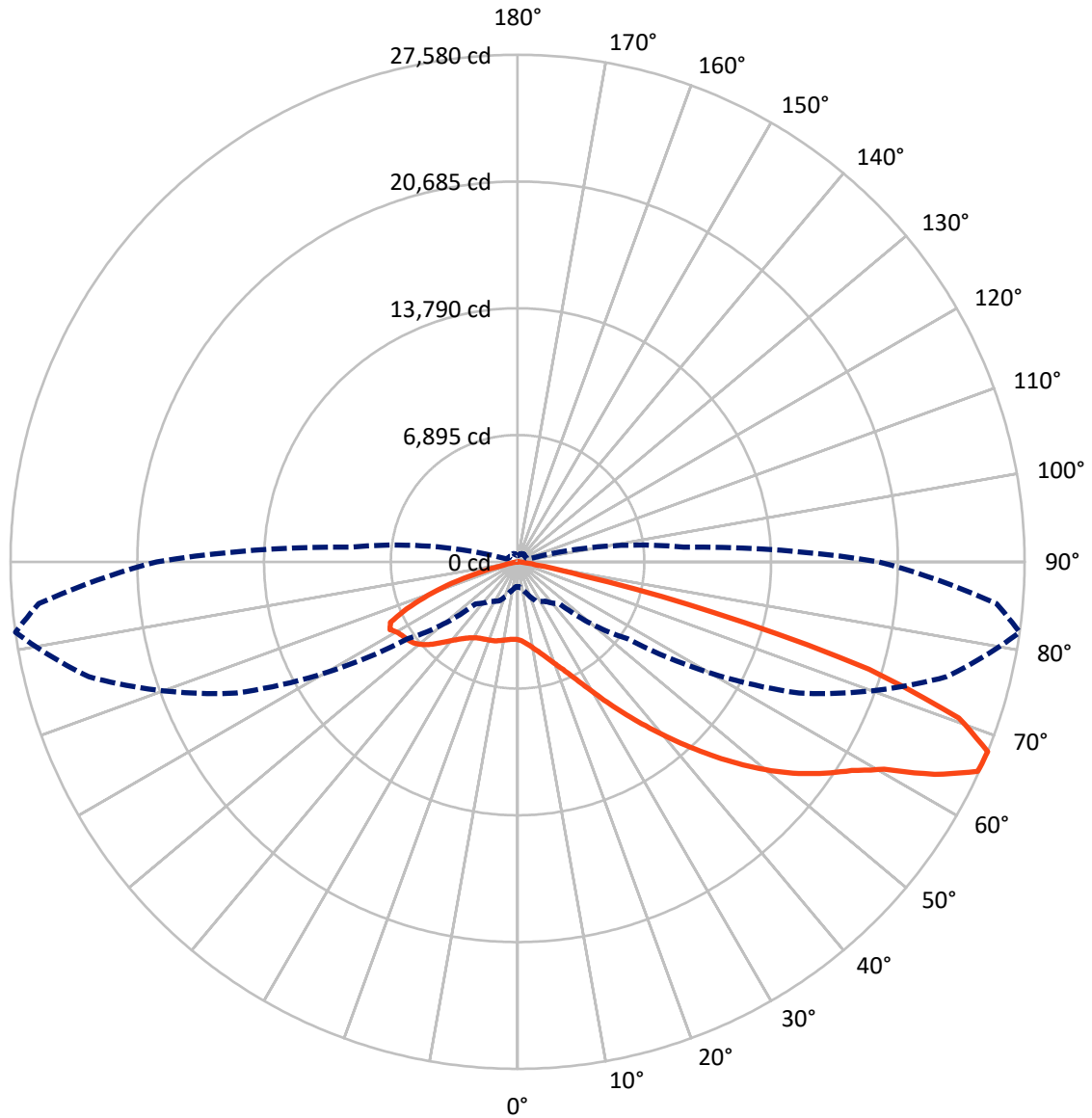
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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 | 4629.7 | 0.0 | 4629.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 20928.7 | 0.0 | 20928.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 25558.4 | 0.0 | 25558.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 377.2 | 1.5 |
| 10°-20° | 980.3 | 3.8 |
| 20°-30° | 1570.1 | 6.1 |
| 30°-40° | 2776.4 | 10.9 |
| 40°-50° | 4864.5 | 19.0 |
| 50°-60° | 6487.9 | 25.4 |
| 60°-70° | 6039.9 | 23.6 |
| 70°-80° | 2318.1 | 9.1 |
| 80°-90° | 144.0 | 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° | 25558.4 | 100.0 |
| 0°-180° | 25558.4 | 100.0 |

Coefficient of Utilization



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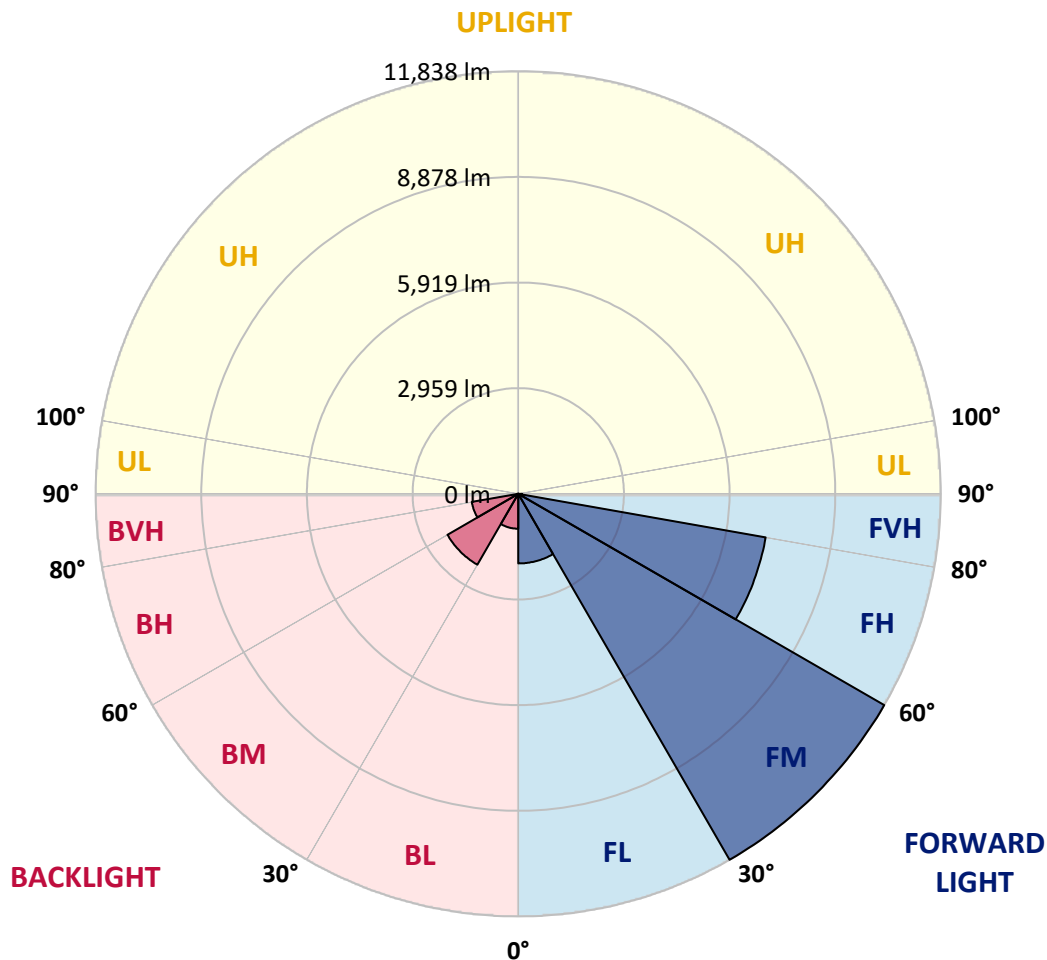
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1949.8 | 7.6 | | | |
| FM (30°-60°) | 11837.6 | 46.3 | | | |
| FH (60°-80°) | 7036.6 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 104.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 977.8 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 2291.2 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1321.4 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 39.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 |
| 2.5° | 4475.3 | 4501.0 | 4486.2 | 4478.9 | 4466.0 | 4447.6 | 4432.9 | 4386.9 | 4339.0 | 4307.8 | 4296.7 |
| 5° | 4565.3 | 4591.2 | 4589.3 | 4596.7 | 4605.8 | 4611.4 | 4607.7 | 4556.2 | 4488.1 | 4434.8 | 4403.4 |
| 7.5° | 4488.1 | 4517.6 | 4541.5 | 4578.3 | 4642.6 | 4710.8 | 4743.9 | 4732.8 | 4662.9 | 4589.3 | 4550.7 |
| 10° | 4269.1 | 4300.4 | 4357.5 | 4443.9 | 4580.1 | 4727.3 | 4850.6 | 4907.6 | 4863.5 | 4782.5 | 4729.1 |
| 12.5° | 3867.9 | 3899.2 | 4011.5 | 4199.2 | 4427.4 | 4683.1 | 4918.7 | 5071.4 | 5082.5 | 5001.5 | 4939.0 |
| 15° | 3417.1 | 3448.4 | 3568.0 | 3803.6 | 4151.4 | 4561.7 | 4955.5 | 5244.4 | 5341.9 | 5272.0 | 5196.5 |
| 17.5° | 3137.4 | 3165.0 | 3255.2 | 3444.7 | 3807.3 | 4318.8 | 4942.7 | 5428.4 | 5651.0 | 5595.9 | 5505.7 |
| 20° | 3052.8 | 3076.7 | 3119.1 | 3251.5 | 3553.3 | 4066.7 | 4858.0 | 5601.4 | 5984.2 | 5952.9 | 5851.6 |
| 22.5° | 3143.0 | 3165.0 | 3177.9 | 3236.8 | 3426.4 | 3901.0 | 4751.3 | 5778.0 | 6370.6 | 6374.3 | 6251.0 |
| 25° | 3350.9 | 3373.0 | 3358.2 | 3395.0 | 3477.8 | 3849.6 | 4710.8 | 5986.0 | 6856.3 | 6896.8 | 6757.0 |
| 27.5° | 3693.2 | 3695.0 | 3660.1 | 3658.2 | 3671.0 | 3926.9 | 4753.0 | 6208.6 | 7469.1 | 7544.6 | 7371.6 |
| 30° | 4379.5 | 4351.9 | 4217.6 | 4072.2 | 4006.0 | 4158.7 | 4870.8 | 6471.7 | 8192.3 | 8326.6 | 8109.5 |
| 32.5° | 5437.6 | 5397.1 | 5150.5 | 4802.7 | 4453.1 | 4532.2 | 5082.5 | 6771.7 | 8979.9 | 9222.7 | 8957.8 |
| 35° | 6585.8 | 6574.9 | 6317.2 | 5800.1 | 5189.2 | 5064.0 | 5426.6 | 7165.5 | 9839.2 | 10225.6 | 9911.0 |
| 37.5° | 7653.2 | 7647.6 | 7500.4 | 6891.3 | 6148.0 | 5805.6 | 5978.6 | 7680.7 | 10759.3 | 11318.7 | 10947.0 |
| 40° | 8628.4 | 8645.0 | 8497.8 | 7953.1 | 7204.1 | 6757.0 | 6729.4 | 8317.5 | 11782.4 | 12509.3 | 12067.6 |
| 42.5° | 9471.2 | 9489.6 | 9340.5 | 8937.6 | 8247.5 | 7809.6 | 7651.3 | 9097.6 | 12781.6 | 13788.2 | 13265.6 |
| 45° | 10043.5 | 10157.5 | 10135.5 | 9813.5 | 9318.5 | 8864.0 | 8759.0 | 10076.6 | 13920.6 | 15144.4 | 14531.5 |
| 47.5° | 10205.4 | 10310.3 | 10475.9 | 10520.1 | 10218.3 | 9771.1 | 9896.3 | 11256.1 | 15072.5 | 16502.4 | 15805.0 |
| 50° | 9806.1 | 9903.7 | 10247.7 | 10705.9 | 10915.7 | 10777.7 | 11002.1 | 12520.3 | 16252.1 | 17856.7 | 17054.4 |
| 52.5° | 9018.6 | 9117.9 | 9552.2 | 10277.2 | 11132.8 | 11567.1 | 12111.8 | 13766.1 | 17394.9 | 19139.3 | 18237.6 |
| 55° | 7879.5 | 7984.3 | 8541.9 | 9362.7 | 10718.8 | 11892.8 | 13037.4 | 15010.0 | 18441.9 | 20293.1 | 19304.8 |
| 57.5° | 6330.1 | 6407.4 | 6987.0 | 8135.2 | 9677.3 | 11569.0 | 13720.0 | 16368.0 | 19428.2 | 21426.6 | 20363.0 |
| 60° | 4125.6 | 4193.7 | 4867.2 | 6148.0 | 7951.2 | 10487.0 | 13856.3 | 17882.5 | 20738.3 | 22900.6 | 21789.0 |
| 62.5° | 2743.6 | 2789.6 | 3189.0 | 4129.3 | 5599.6 | 8409.4 | 13059.4 | 19091.4 | 22659.5 | 25465.7 | 24234.6 |
| 65° | 1882.4 | 1928.4 | 2327.8 | 2982.9 | 3617.7 | 5562.8 | 10768.4 | 18931.3 | 24400.2 | 27502.7 | 26047.2 |
| 67.5° | 1343.3 | 1381.9 | 1720.6 | 2338.8 | 2618.6 | 3231.3 | 7299.8 | 16885.1 | 24149.9 | 27580.0 | 26144.7 |
| 70° | 962.4 | 984.5 | 1264.1 | 1821.7 | 2081.2 | 1941.4 | 4059.3 | 12914.1 | 21145.0 | 25467.6 | 24153.6 |
| 72.5° | 673.5 | 680.8 | 877.7 | 1387.4 | 1676.4 | 1416.9 | 1932.1 | 8610.0 | 15992.7 | 19989.4 | 18725.2 |
| 75° | 456.3 | 465.6 | 590.7 | 1017.6 | 1345.1 | 1082.0 | 1023.2 | 4616.9 | 9388.4 | 11064.8 | 9918.3 |
| 77.5° | 279.7 | 283.4 | 380.9 | 695.6 | 1006.6 | 824.4 | 658.8 | 1956.1 | 3632.4 | 3566.2 | 3039.9 |
| 80° | 158.3 | 158.3 | 242.9 | 432.4 | 686.3 | 531.8 | 461.9 | 831.8 | 1150.0 | 1010.2 | 890.6 |
| 82.5° | 88.4 | 90.2 | 176.6 | 268.7 | 454.5 | 314.7 | 253.9 | 384.6 | 496.8 | 439.8 | 382.7 |
| 85° | 36.8 | 40.5 | 108.5 | 127.0 | 217.1 | 156.4 | 103.0 | 162.0 | 184.0 | 163.8 | 119.6 |
| 87.5° | 3.7 | 5.5 | 33.1 | 23.9 | 25.7 | 31.3 | 14.8 | 31.3 | 25.7 | 25.7 | 18.4 |
| 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° | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 | 4234.2 |
| 2.5° | 4261.7 | 4234.2 | 4164.3 | 4083.3 | 3976.5 | 3925.0 | 3855.1 | 3807.3 | 3766.8 | 3770.5 | 3733.7 |
| 5° | 4344.6 | 4274.7 | 4118.2 | 3923.2 | 3680.3 | 3507.3 | 3323.3 | 3196.4 | 3093.2 | 3071.2 | 3021.5 |
| 7.5° | 4458.6 | 4348.3 | 4074.1 | 3722.6 | 3312.3 | 3001.3 | 2723.4 | 2544.9 | 2418.0 | 2377.5 | 2337.0 |
| 10° | 4605.8 | 4445.7 | 4017.0 | 3470.5 | 2879.8 | 2484.2 | 2186.1 | 2046.2 | 1959.7 | 1930.3 | 1908.2 |
| 12.5° | 4777.0 | 4558.1 | 3941.5 | 3163.1 | 2434.5 | 2053.6 | 1864.1 | 1794.2 | 1766.5 | 1757.4 | 1751.8 |
| 15° | 4992.3 | 4697.9 | 3827.5 | 2798.9 | 2057.3 | 1790.5 | 1709.5 | 1700.3 | 1704.0 | 1700.3 | 1698.4 |
| 17.5° | 5248.1 | 4850.6 | 3641.6 | 2423.5 | 1803.4 | 1656.1 | 1626.7 | 1634.1 | 1643.3 | 1641.4 | 1637.7 |
| 20° | 5527.8 | 5001.5 | 3404.2 | 2090.4 | 1630.4 | 1560.5 | 1543.9 | 1551.2 | 1558.6 | 1554.9 | 1553.1 |
| 22.5° | 5846.1 | 5163.4 | 3141.1 | 1831.0 | 1514.4 | 1472.1 | 1453.8 | 1455.5 | 1455.5 | 1448.2 | 1444.5 |
| 25° | 6227.0 | 5341.9 | 2865.1 | 1647.0 | 1426.1 | 1393.0 | 1370.9 | 1363.6 | 1352.5 | 1330.4 | 1326.8 |
| 27.5° | 6681.6 | 5531.4 | 2600.1 | 1518.1 | 1356.2 | 1324.9 | 1299.2 | 1280.7 | 1253.2 | 1216.4 | 1212.7 |
| 30° | 7193.1 | 5761.4 | 2375.6 | 1437.2 | 1300.9 | 1269.7 | 1240.2 | 1212.7 | 1172.2 | 1126.2 | 1122.5 |
| 32.5° | 7794.8 | 6008.0 | 2211.8 | 1383.7 | 1251.3 | 1218.2 | 1183.3 | 1150.0 | 1105.9 | 1060.0 | 1061.8 |
| 35° | 8512.5 | 6306.1 | 2116.1 | 1347.0 | 1212.7 | 1168.5 | 1129.9 | 1093.1 | 1060.0 | 1019.5 | 1015.8 |
| 37.5° | 9290.9 | 6622.6 | 2086.7 | 1328.6 | 1186.8 | 1118.8 | 1074.6 | 1048.9 | 1045.2 | 1021.3 | 1019.5 |
| 40° | 10142.9 | 6998.1 | 2108.8 | 1317.5 | 1159.3 | 1070.9 | 1023.2 | 1017.6 | 1026.8 | 984.5 | 986.4 |
| 42.5° | 11044.5 | 7443.3 | 2145.6 | 1304.6 | 1120.6 | 1023.2 | 977.1 | 977.1 | 969.8 | 910.9 | 910.9 |
| 45° | 12019.8 | 7956.8 | 2182.4 | 1273.4 | 1074.6 | 975.3 | 940.3 | 927.4 | 896.2 | 839.1 | 837.2 |
| 47.5° | 13002.4 | 8479.3 | 2210.0 | 1216.4 | 1019.5 | 934.8 | 903.5 | 874.0 | 828.1 | 776.5 | 774.7 |
| 50° | 13935.4 | 8948.6 | 2180.6 | 1131.7 | 956.8 | 896.2 | 863.0 | 822.6 | 772.8 | 737.9 | 732.4 |
| 52.5° | 14768.9 | 9355.3 | 2055.4 | 1032.3 | 890.6 | 855.7 | 826.3 | 783.9 | 743.4 | 706.6 | 702.9 |
| 55° | 15494.0 | 9684.6 | 1834.6 | 938.5 | 831.8 | 820.7 | 791.3 | 737.9 | 682.6 | 651.4 | 647.7 |
| 57.5° | 16189.6 | 9934.9 | 1558.6 | 861.2 | 778.4 | 782.1 | 737.9 | 690.0 | 638.6 | 605.4 | 601.7 |
| 60° | 17115.1 | 10269.8 | 1278.9 | 789.5 | 721.3 | 732.4 | 684.5 | 649.5 | 585.2 | 542.8 | 537.3 |
| 62.5° | 18594.6 | 10790.6 | 1015.8 | 701.1 | 655.1 | 658.8 | 638.6 | 596.2 | 519.0 | 469.2 | 465.6 |
| 65° | 19768.6 | 10599.2 | 800.4 | 605.4 | 579.6 | 585.2 | 585.2 | 539.2 | 456.3 | 399.3 | 393.8 |
| 67.5° | 19636.1 | 9075.6 | 638.6 | 511.6 | 507.9 | 511.6 | 524.4 | 485.7 | 404.9 | 358.9 | 351.5 |
| 70° | 18088.6 | 7218.9 | 511.6 | 425.1 | 441.7 | 432.4 | 469.2 | 443.5 | 364.4 | 318.4 | 312.8 |
| 72.5° | 14759.8 | 5200.2 | 390.1 | 351.5 | 338.6 | 353.3 | 423.2 | 399.3 | 303.6 | 252.2 | 246.6 |
| 75° | 8624.8 | 2774.9 | 290.8 | 277.9 | 244.8 | 294.4 | 375.4 | 340.4 | 231.9 | 185.8 | 180.3 |
| 77.5° | 2808.1 | 967.9 | 213.4 | 204.3 | 182.1 | 237.4 | 320.2 | 287.1 | 189.5 | 147.2 | 141.7 |
| 80° | 752.7 | 292.5 | 145.3 | 134.4 | 117.8 | 176.6 | 253.9 | 228.2 | 136.1 | 95.7 | 93.9 |
| 82.5° | 301.8 | 123.3 | 84.7 | 75.4 | 64.4 | 121.5 | 200.6 | 184.0 | 101.2 | 60.7 | 60.7 |
| 85° | 97.5 | 40.5 | 31.3 | 23.9 | 29.4 | 75.4 | 119.6 | 125.2 | 71.8 | 31.3 | 23.9 |
| 87.5° | 12.9 | 5.5 | 5.5 | 7.4 | 5.5 | 12.9 | 36.8 | 35.0 | 20.2 | 3.7 | 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)