

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: P885136

Luminaire Tested: **NAV-SB6B-740-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26908 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

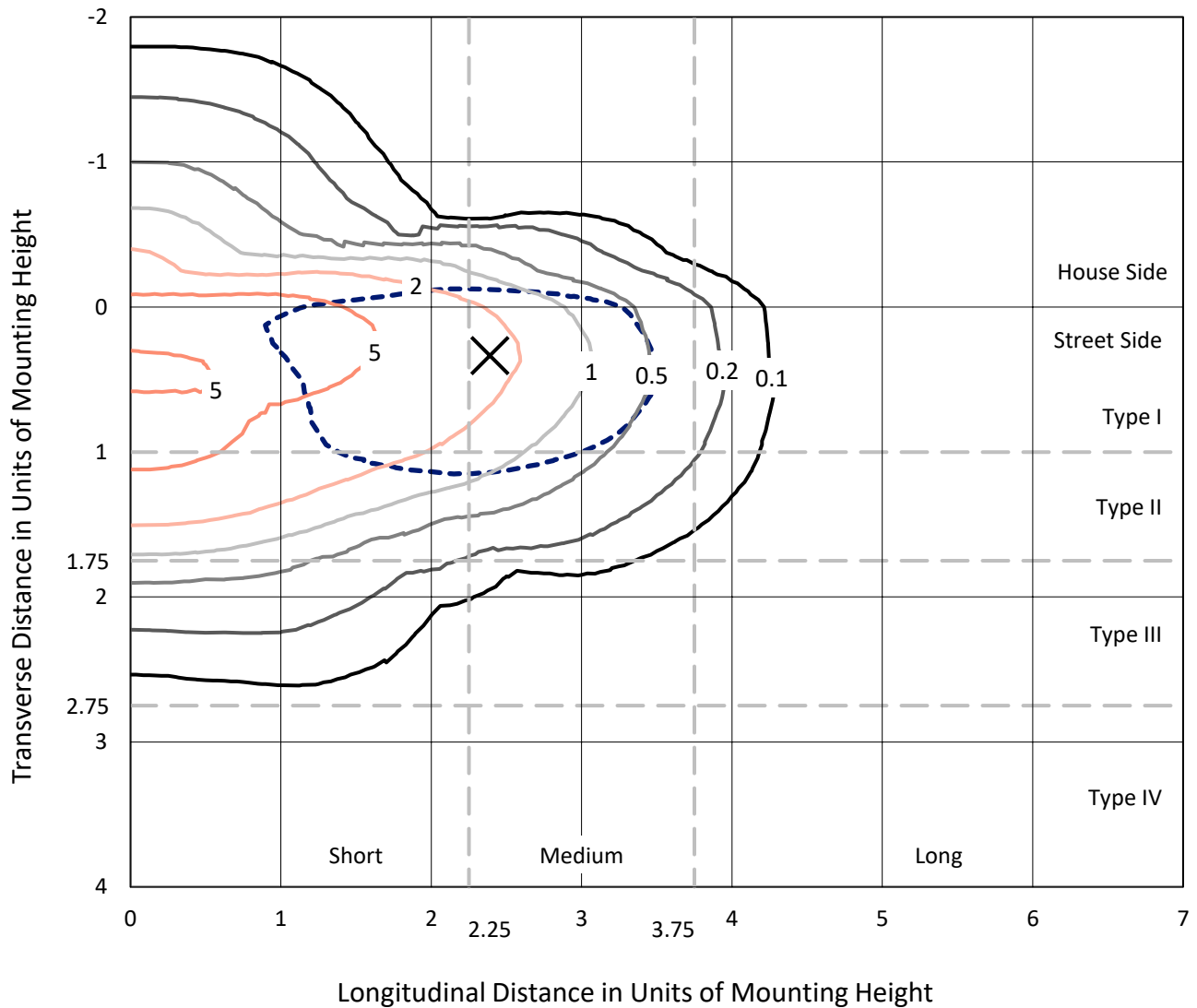
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

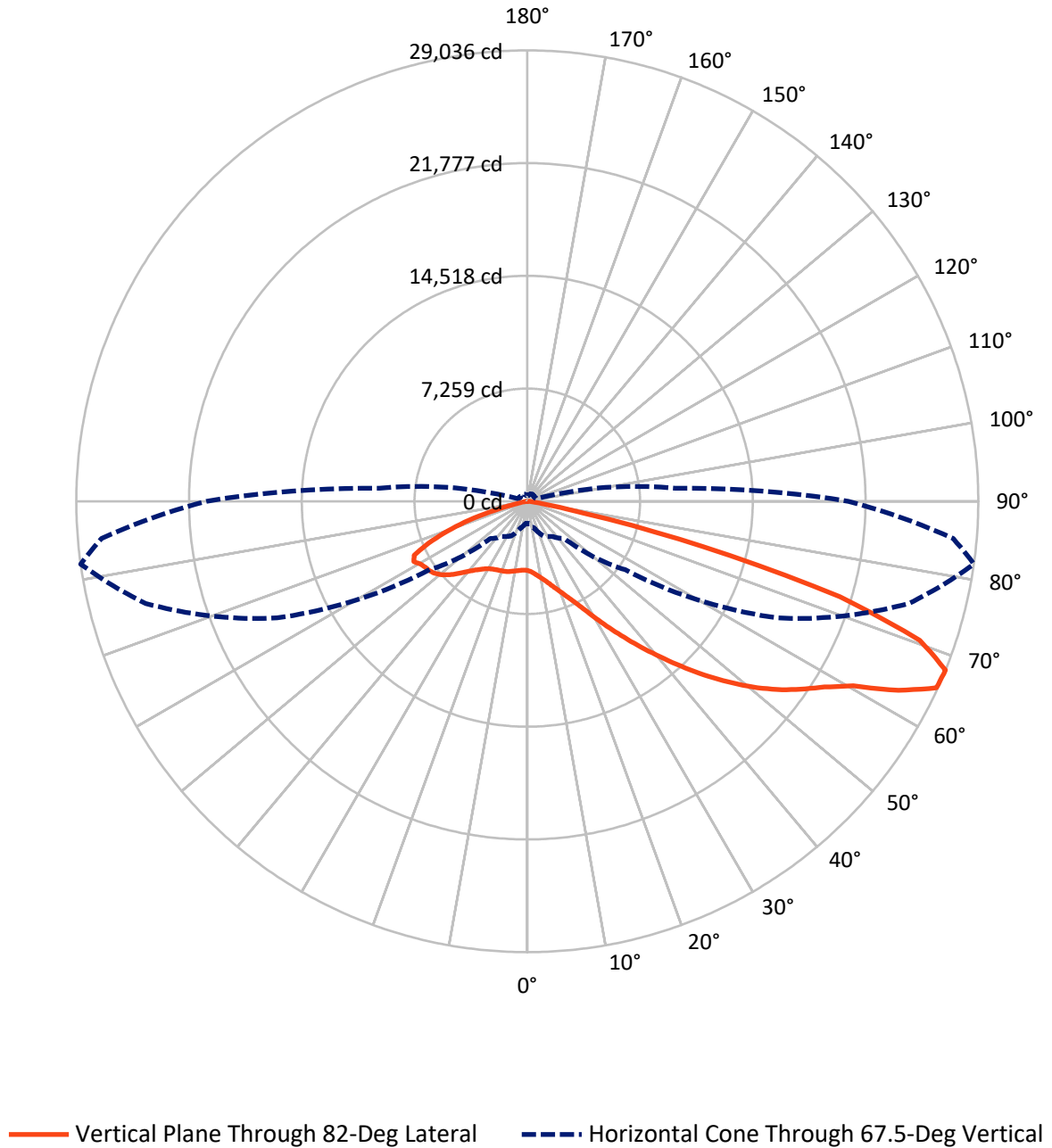
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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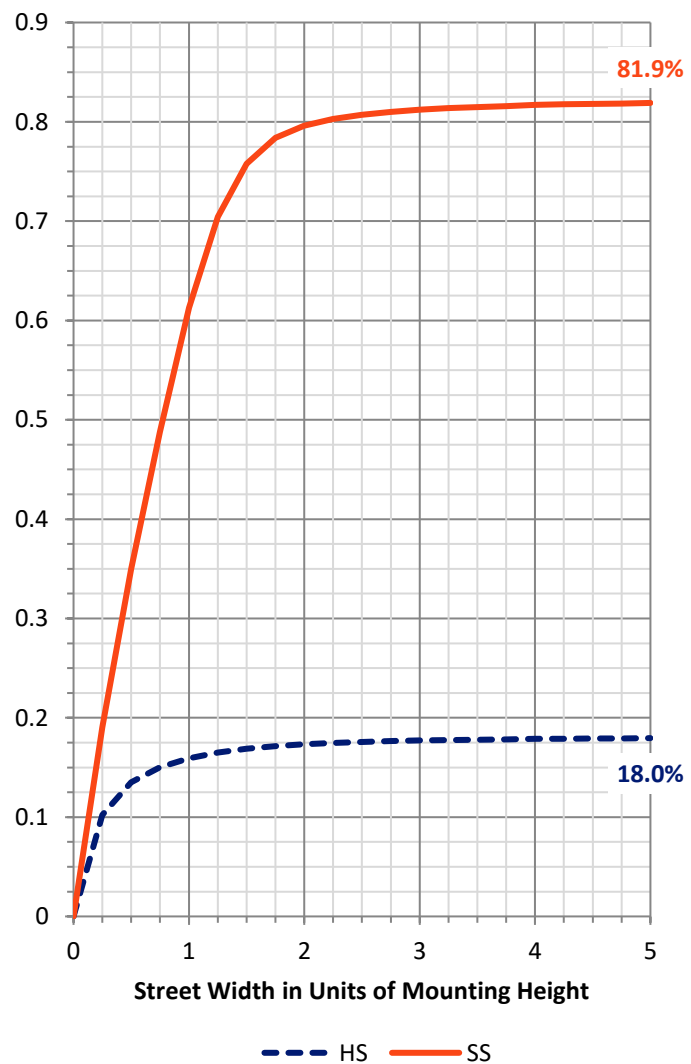
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4874.1 | 0.0 | 4874.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 22033.8 | 0.0 | 22033.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 26908.0 | 0.0 | 26908.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 397.2 | 1.5 |
| 10°-20° | 1032.0 | 3.8 |
| 20°-30° | 1653.0 | 6.1 |
| 30°-40° | 2923.0 | 10.9 |
| 40°-50° | 5121.4 | 19.0 |
| 50°-60° | 6830.5 | 25.4 |
| 60°-70° | 6358.8 | 23.6 |
| 70°-80° | 2440.5 | 9.1 |
| 80°-90° | 151.6 | 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° | 26908.0 | 100.0 |
| 0°-180° | 26908.0 | 100.0 |

Coefficient of Utilization



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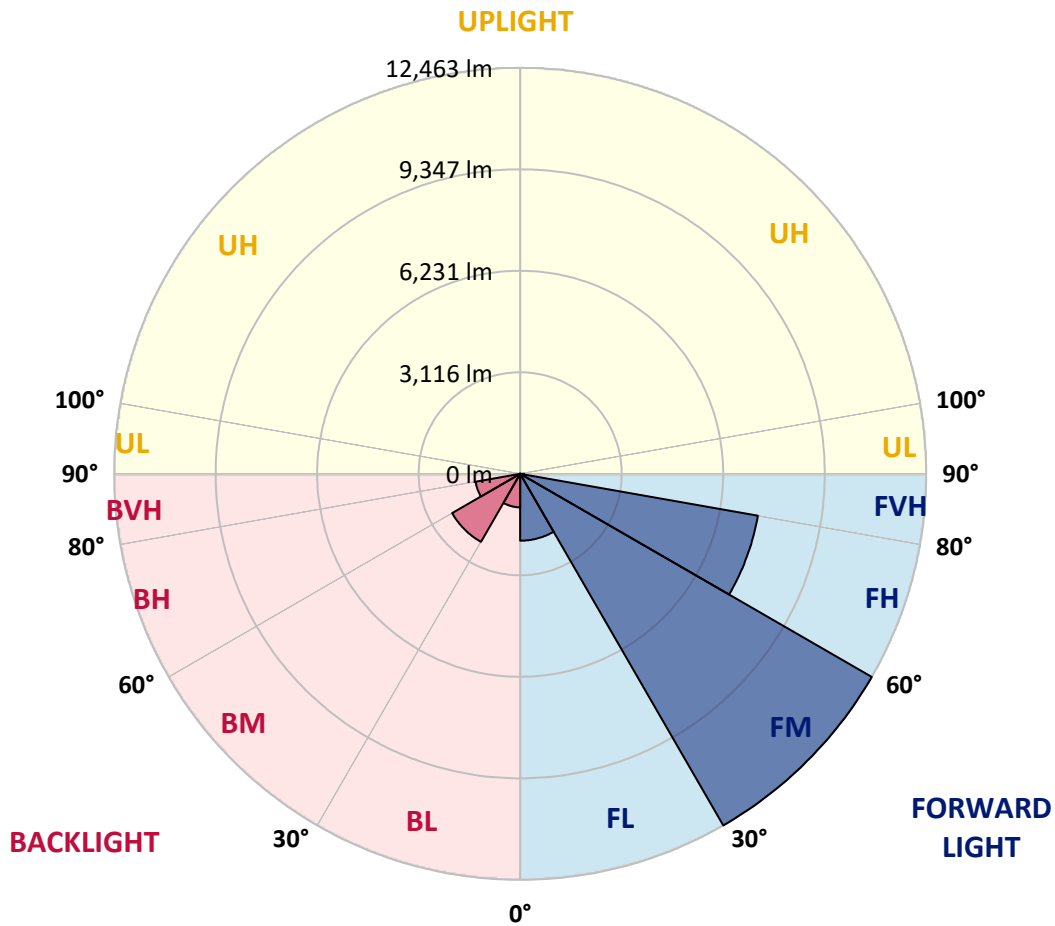
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2052.8 | 7.6 | | | |
| FM (30°-60°) | 12462.7 | 46.3 | | | |
| FH (60°-80°) | 7408.2 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 110.2 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1029.4 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2412.2 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1391.2 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 41.4 | 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° | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 |
| 2.5° | 4711.5 | 4738.7 | 4723.2 | 4715.4 | 4701.8 | 4682.5 | 4667.0 | 4618.5 | 4568.2 | 4535.2 | 4523.6 |
| 5° | 4806.5 | 4833.6 | 4831.6 | 4839.4 | 4849.1 | 4854.9 | 4851.0 | 4796.8 | 4725.1 | 4668.9 | 4636.0 |
| 7.5° | 4725.1 | 4756.1 | 4781.3 | 4820.0 | 4887.8 | 4959.5 | 4994.4 | 4982.8 | 4909.1 | 4831.6 | 4791.0 |
| 10° | 4494.6 | 4527.5 | 4587.5 | 4678.6 | 4822.0 | 4976.9 | 5106.7 | 5166.8 | 5120.3 | 5035.1 | 4978.9 |
| 12.5° | 4072.2 | 4105.2 | 4223.3 | 4420.9 | 4661.2 | 4930.4 | 5178.4 | 5339.2 | 5350.8 | 5265.6 | 5199.7 |
| 15° | 3597.6 | 3630.5 | 3756.4 | 4004.4 | 4370.6 | 4802.6 | 5217.2 | 5521.3 | 5624.0 | 5550.4 | 5471.0 |
| 17.5° | 3303.1 | 3332.2 | 3427.1 | 3626.6 | 4008.3 | 4546.9 | 5203.6 | 5715.1 | 5949.5 | 5891.4 | 5796.4 |
| 20° | 3214.0 | 3239.2 | 3283.7 | 3423.2 | 3740.9 | 4281.4 | 5114.5 | 5897.2 | 6300.1 | 6267.2 | 6160.6 |
| 22.5° | 3308.9 | 3332.2 | 3345.7 | 3407.7 | 3607.3 | 4107.1 | 5002.1 | 6083.1 | 6707.0 | 6710.8 | 6581.0 |
| 25° | 3527.8 | 3551.1 | 3535.6 | 3574.3 | 3661.5 | 4052.8 | 4959.5 | 6302.1 | 7218.4 | 7261.0 | 7113.8 |
| 27.5° | 3888.2 | 3890.1 | 3853.3 | 3851.4 | 3864.9 | 4134.2 | 5004.1 | 6536.5 | 7863.5 | 7943.0 | 7760.9 |
| 30° | 4610.8 | 4581.7 | 4440.3 | 4287.3 | 4217.5 | 4378.3 | 5128.1 | 6813.5 | 8624.9 | 8766.3 | 8537.7 |
| 32.5° | 5724.7 | 5682.1 | 5422.5 | 5056.4 | 4688.3 | 4771.6 | 5350.8 | 7129.3 | 9454.1 | 9709.8 | 9430.8 |
| 35° | 6933.6 | 6922.0 | 6650.8 | 6106.4 | 5463.2 | 5331.5 | 5713.1 | 7543.9 | 10358.8 | 10765.6 | 10434.3 |
| 37.5° | 8057.3 | 8051.5 | 7896.5 | 7255.2 | 6472.5 | 6112.2 | 6294.3 | 8086.3 | 11327.4 | 11916.4 | 11525.0 |
| 40° | 9084.0 | 9101.5 | 8946.5 | 8373.0 | 7584.6 | 7113.8 | 7084.7 | 8756.6 | 12404.6 | 13169.8 | 12704.9 |
| 42.5° | 9971.3 | 9990.7 | 9833.8 | 9409.5 | 8683.0 | 8221.9 | 8055.3 | 9578.0 | 13456.5 | 14516.2 | 13966.1 |
| 45° | 10573.8 | 10693.9 | 10670.7 | 10331.7 | 9810.5 | 9332.0 | 9221.6 | 10608.7 | 14655.7 | 15944.0 | 15298.9 |
| 47.5° | 10744.3 | 10854.7 | 11029.1 | 11075.6 | 10757.9 | 10287.1 | 10418.8 | 11850.5 | 15868.5 | 17373.8 | 16639.5 |
| 50° | 10323.9 | 10426.6 | 10788.9 | 11271.3 | 11492.1 | 11346.8 | 11583.2 | 13181.4 | 17110.3 | 18799.6 | 17955.0 |
| 52.5° | 9494.7 | 9599.4 | 10056.6 | 10819.9 | 11720.7 | 12177.9 | 12751.4 | 14493.0 | 18313.4 | 20149.9 | 19200.7 |
| 55° | 8295.6 | 8406.0 | 8993.0 | 9857.0 | 11284.8 | 12520.8 | 13725.8 | 15802.6 | 19415.7 | 21364.6 | 20324.3 |
| 57.5° | 6664.3 | 6745.7 | 7356.0 | 8564.8 | 10188.3 | 12179.9 | 14444.6 | 17232.4 | 20454.1 | 22558.0 | 21438.2 |
| 60° | 4343.4 | 4415.1 | 5124.2 | 6472.5 | 8371.1 | 11040.7 | 14587.9 | 18826.8 | 21833.5 | 24109.8 | 22939.7 |
| 62.5° | 2888.5 | 2937.0 | 3357.4 | 4347.3 | 5895.2 | 8853.5 | 13749.1 | 20099.6 | 23856.0 | 26810.4 | 25514.3 |
| 65° | 1981.9 | 2030.3 | 2450.7 | 3140.4 | 3808.7 | 5856.5 | 11337.1 | 19931.0 | 25688.7 | 28955.0 | 27422.6 |
| 67.5° | 1414.2 | 1454.9 | 1811.4 | 2462.3 | 2756.8 | 3401.9 | 7685.3 | 17776.7 | 25425.2 | 29036.4 | 27525.3 |
| 70° | 1013.2 | 1036.5 | 1330.9 | 1917.9 | 2191.1 | 2043.9 | 4273.7 | 13596.0 | 22261.6 | 26812.3 | 25429.1 |
| 72.5° | 709.1 | 716.8 | 924.1 | 1460.7 | 1764.9 | 1491.7 | 2034.2 | 9064.7 | 16837.1 | 21045.0 | 19714.0 |
| 75° | 480.5 | 490.1 | 621.9 | 1071.3 | 1416.2 | 1139.1 | 1077.1 | 4860.7 | 9884.1 | 11649.0 | 10442.1 |
| 77.5° | 294.5 | 298.3 | 401.0 | 732.3 | 1059.7 | 867.9 | 693.6 | 2059.4 | 3824.2 | 3754.5 | 3200.4 |
| 80° | 166.6 | 166.6 | 255.7 | 455.3 | 722.6 | 559.9 | 486.3 | 875.7 | 1210.8 | 1063.6 | 937.7 |
| 82.5° | 93.0 | 94.9 | 186.0 | 282.8 | 478.5 | 331.3 | 267.3 | 404.9 | 523.1 | 463.0 | 403.0 |
| 85° | 38.7 | 42.6 | 114.3 | 133.7 | 228.6 | 164.7 | 108.5 | 170.5 | 193.7 | 172.4 | 125.9 |
| 87.5° | 3.9 | 5.8 | 34.9 | 25.2 | 27.1 | 32.9 | 15.5 | 32.9 | 27.1 | 27.1 | 19.4 |
| 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° | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 | 4457.7 |
| 2.5° | 4486.8 | 4457.7 | 4384.1 | 4298.9 | 4186.5 | 4132.3 | 4058.7 | 4008.3 | 3965.7 | 3969.5 | 3930.8 |
| 5° | 4574.0 | 4500.4 | 4335.7 | 4130.3 | 3874.6 | 3692.5 | 3498.8 | 3365.1 | 3256.6 | 3233.4 | 3181.1 |
| 7.5° | 4694.1 | 4577.9 | 4289.2 | 3919.2 | 3487.2 | 3159.7 | 2867.2 | 2679.3 | 2545.6 | 2503.0 | 2460.4 |
| 10° | 4849.1 | 4680.5 | 4229.1 | 3653.8 | 3031.9 | 2615.4 | 2301.5 | 2154.3 | 2063.2 | 2032.2 | 2009.0 |
| 12.5° | 5029.3 | 4798.7 | 4149.7 | 3330.2 | 2563.1 | 2162.0 | 1962.5 | 1888.9 | 1859.8 | 1850.1 | 1844.3 |
| 15° | 5255.9 | 4945.9 | 4029.6 | 2946.6 | 2165.9 | 1885.0 | 1799.8 | 1790.1 | 1793.9 | 1790.1 | 1788.1 |
| 17.5° | 5525.2 | 5106.7 | 3833.9 | 2551.4 | 1898.6 | 1743.6 | 1712.6 | 1720.3 | 1730.0 | 1728.1 | 1724.2 |
| 20° | 5819.7 | 5265.6 | 3584.0 | 2200.8 | 1716.5 | 1642.8 | 1625.4 | 1633.2 | 1640.9 | 1637.0 | 1635.1 |
| 22.5° | 6154.8 | 5436.1 | 3307.0 | 1927.6 | 1594.4 | 1549.8 | 1530.5 | 1532.4 | 1532.4 | 1524.7 | 1520.8 |
| 25° | 6555.8 | 5624.0 | 3016.4 | 1733.9 | 1501.4 | 1466.5 | 1443.3 | 1435.5 | 1423.9 | 1400.7 | 1396.8 |
| 27.5° | 7034.4 | 5823.5 | 2737.4 | 1598.3 | 1427.8 | 1394.9 | 1367.7 | 1348.4 | 1319.3 | 1280.6 | 1276.7 |
| 30° | 7572.9 | 6065.7 | 2501.1 | 1513.0 | 1369.7 | 1336.7 | 1305.7 | 1276.7 | 1234.1 | 1185.6 | 1181.8 |
| 32.5° | 8206.4 | 6325.3 | 2328.6 | 1456.9 | 1317.4 | 1282.5 | 1245.7 | 1210.8 | 1164.3 | 1115.9 | 1117.8 |
| 35° | 8962.0 | 6639.2 | 2227.9 | 1418.1 | 1276.7 | 1230.2 | 1189.5 | 1150.8 | 1115.9 | 1073.3 | 1069.4 |
| 37.5° | 9781.5 | 6972.4 | 2196.9 | 1398.7 | 1249.6 | 1177.9 | 1131.4 | 1104.3 | 1100.4 | 1075.2 | 1073.3 |
| 40° | 10678.4 | 7367.6 | 2220.2 | 1387.1 | 1220.5 | 1127.5 | 1077.1 | 1071.3 | 1081.0 | 1036.5 | 1038.4 |
| 42.5° | 11627.7 | 7836.4 | 2258.9 | 1373.6 | 1179.8 | 1077.1 | 1028.7 | 1028.7 | 1021.0 | 959.0 | 959.0 |
| 45° | 12654.5 | 8376.9 | 2297.6 | 1340.6 | 1131.4 | 1026.8 | 990.0 | 976.4 | 943.5 | 883.4 | 881.5 |
| 47.5° | 13689.0 | 8927.1 | 2326.7 | 1280.6 | 1073.3 | 984.2 | 951.2 | 920.2 | 871.8 | 817.5 | 815.6 |
| 50° | 14671.2 | 9421.1 | 2295.7 | 1191.4 | 1007.4 | 943.5 | 908.6 | 866.0 | 813.7 | 776.9 | 771.0 |
| 52.5° | 15548.8 | 9849.3 | 2164.0 | 1086.8 | 937.7 | 900.8 | 869.9 | 825.3 | 782.7 | 743.9 | 740.1 |
| 55° | 16312.1 | 10196.1 | 1931.5 | 988.0 | 875.7 | 864.0 | 833.0 | 776.9 | 718.7 | 685.8 | 681.9 |
| 57.5° | 17044.4 | 10459.5 | 1640.9 | 906.7 | 819.5 | 823.4 | 776.9 | 726.5 | 672.2 | 637.4 | 633.5 |
| 60° | 18018.9 | 10812.1 | 1346.4 | 831.1 | 759.4 | 771.0 | 720.7 | 683.9 | 616.1 | 571.5 | 565.7 |
| 62.5° | 19576.5 | 11360.4 | 1069.4 | 738.1 | 689.7 | 693.6 | 672.2 | 627.7 | 546.3 | 494.0 | 490.1 |
| 65° | 20812.5 | 11158.9 | 842.7 | 637.4 | 610.3 | 616.1 | 616.1 | 567.6 | 480.5 | 420.4 | 414.6 |
| 67.5° | 20673.0 | 9554.8 | 672.2 | 538.6 | 534.7 | 538.6 | 552.1 | 511.4 | 426.2 | 377.8 | 370.0 |
| 70° | 19043.7 | 7600.1 | 538.6 | 447.5 | 465.0 | 455.3 | 494.0 | 466.9 | 383.6 | 335.2 | 329.3 |
| 72.5° | 15539.1 | 5474.8 | 410.7 | 370.0 | 356.5 | 372.0 | 445.6 | 420.4 | 319.7 | 265.4 | 259.6 |
| 75° | 9080.2 | 2921.5 | 306.1 | 292.5 | 257.7 | 310.0 | 395.2 | 358.4 | 244.1 | 195.7 | 189.9 |
| 77.5° | 2956.3 | 1019.0 | 224.7 | 215.0 | 191.8 | 249.9 | 337.1 | 302.2 | 199.5 | 155.0 | 149.2 |
| 80° | 792.4 | 308.0 | 153.0 | 141.4 | 124.0 | 186.0 | 267.3 | 240.2 | 143.4 | 100.7 | 98.8 |
| 82.5° | 317.7 | 129.8 | 89.1 | 79.4 | 67.8 | 127.9 | 211.2 | 193.7 | 106.6 | 63.9 | 63.9 |
| 85° | 102.7 | 42.6 | 32.9 | 25.2 | 31.0 | 79.4 | 125.9 | 131.7 | 75.6 | 32.9 | 25.2 |
| 87.5° | 13.6 | 5.8 | 5.8 | 7.7 | 5.8 | 13.6 | 38.7 | 36.8 | 21.3 | 3.9 | 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)