

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: P970271

Luminaire Tested: **NAV-SB6B-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970271
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-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 21113 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

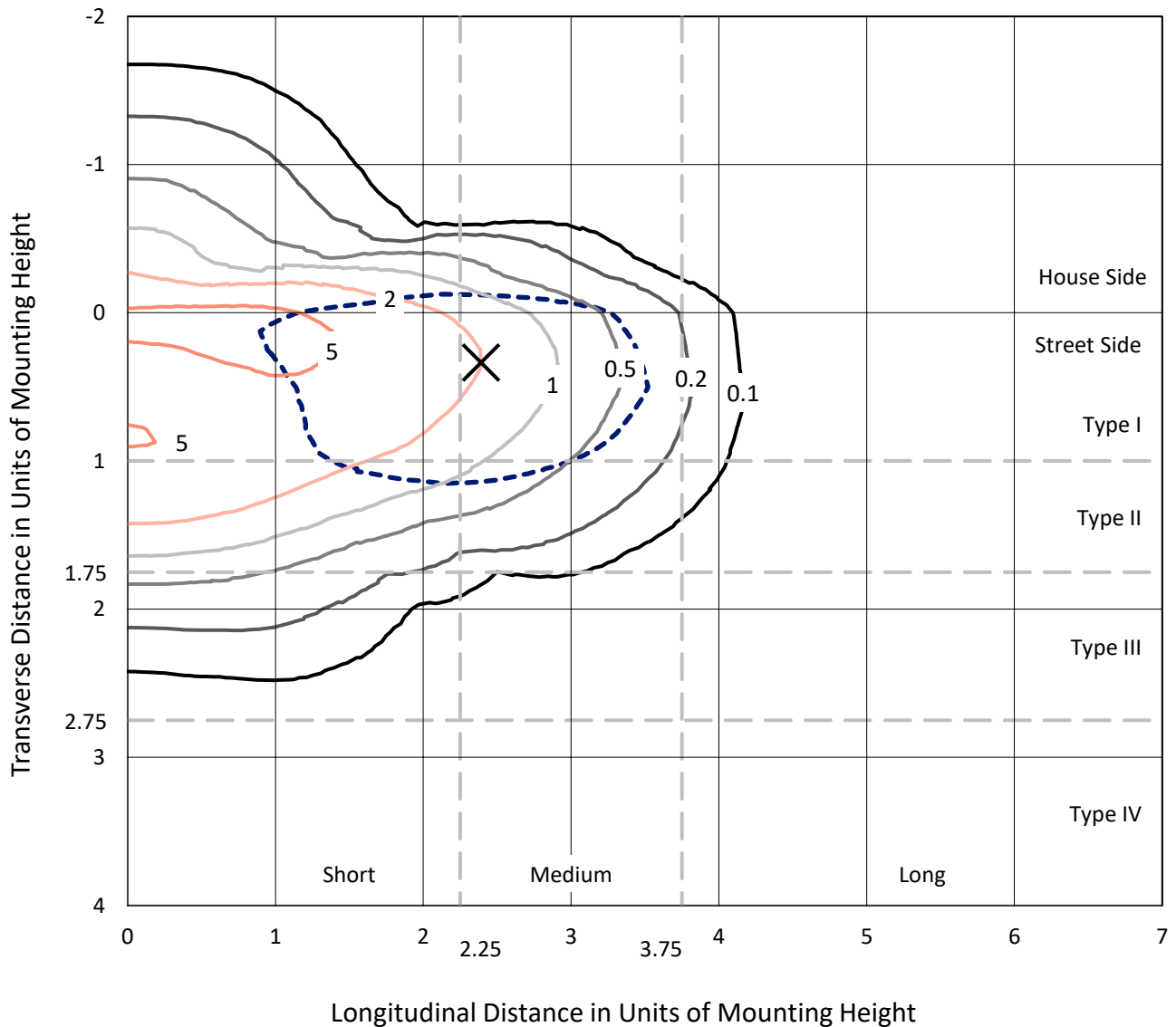
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

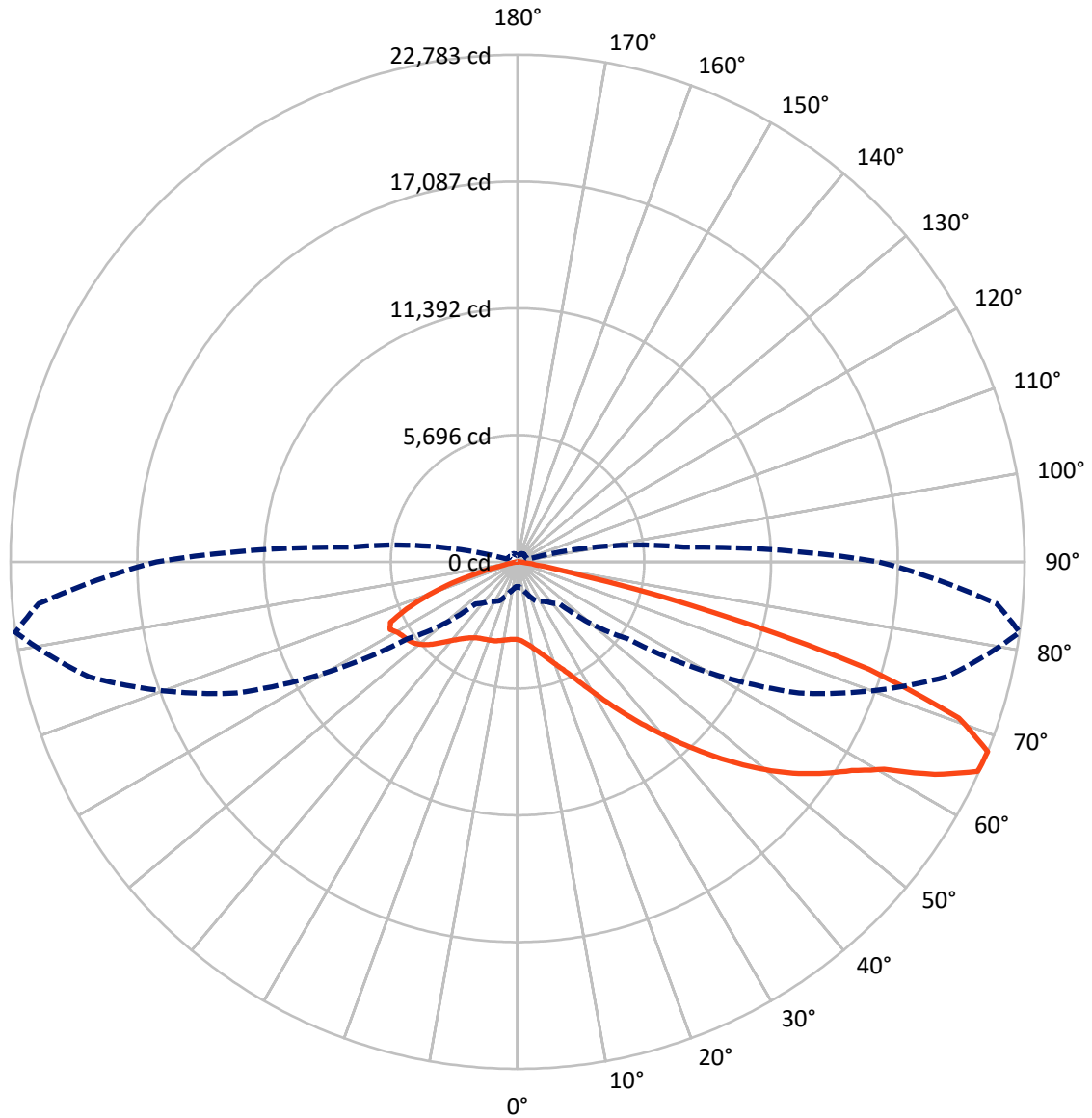
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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 | 3824.4 | 0.0 | 3824.4 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 17288.5 | 0.0 | 17288.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 21113.0 | 0.0 | 21113.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 311.6 | 1.5 |
| 10°-20° | 809.8 | 3.8 |
| 20°-30° | 1297.0 | 6.1 |
| 30°-40° | 2293.5 | 10.9 |
| 40°-50° | 4018.4 | 19.0 |
| 50°-60° | 5359.4 | 25.4 |
| 60°-70° | 4989.4 | 23.6 |
| 70°-80° | 1914.9 | 9.1 |
| 80°-90° | 118.9 | 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° | 21113.0 | 100.0 |
| 0°-180° | 21113.0 | 100.0 |

Coefficient of Utilization



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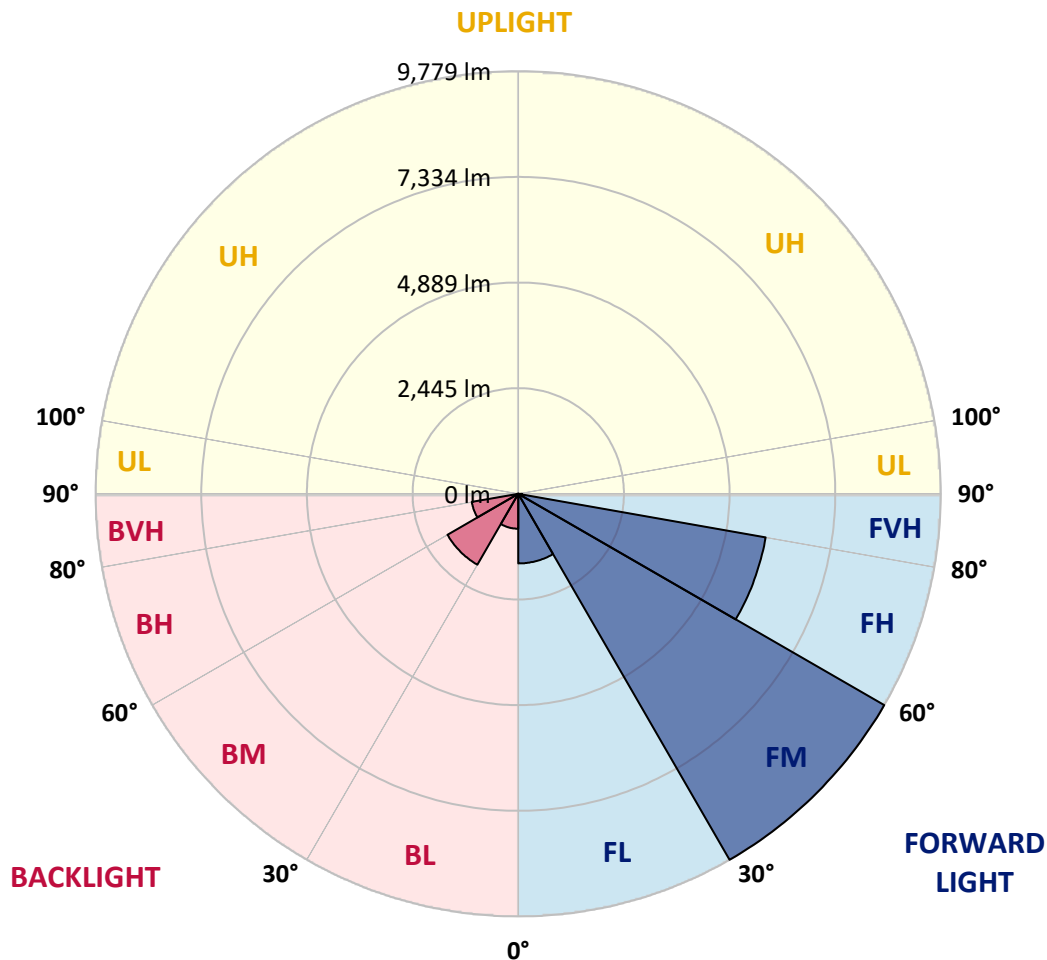
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1610.7 | 7.6 | | | |
| FM (30°-60°) | 9778.7 | 46.3 | | | |
| FH (60°-80°) | 5812.7 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 86.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 807.7 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1892.7 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1091.6 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 32.5 | 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° | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 |
| 2.5° | 3696.9 | 3718.1 | 3706.0 | 3699.8 | 3689.3 | 3674.0 | 3661.9 | 3623.9 | 3584.3 | 3558.5 | 3549.4 |
| 5° | 3771.3 | 3792.6 | 3791.1 | 3797.1 | 3804.8 | 3809.3 | 3806.2 | 3763.7 | 3707.4 | 3663.4 | 3637.5 |
| 7.5° | 3707.4 | 3731.8 | 3751.6 | 3781.9 | 3835.1 | 3891.4 | 3918.8 | 3909.7 | 3851.8 | 3791.1 | 3759.2 |
| 10° | 3526.6 | 3552.4 | 3599.6 | 3671.0 | 3783.5 | 3905.0 | 4006.9 | 4054.1 | 4017.6 | 3950.7 | 3906.6 |
| 12.5° | 3195.2 | 3221.1 | 3313.7 | 3468.8 | 3657.3 | 3868.6 | 4063.2 | 4189.4 | 4198.5 | 4131.6 | 4079.9 |
| 15° | 2822.7 | 2848.6 | 2947.4 | 3142.0 | 3429.3 | 3768.3 | 4093.5 | 4332.3 | 4412.8 | 4355.0 | 4292.7 |
| 17.5° | 2591.7 | 2614.6 | 2689.0 | 2845.6 | 3145.0 | 3567.6 | 4082.9 | 4484.3 | 4668.2 | 4622.5 | 4548.0 |
| 20° | 2521.8 | 2541.6 | 2576.5 | 2686.0 | 2935.3 | 3359.3 | 4013.0 | 4627.2 | 4943.3 | 4917.4 | 4833.9 |
| 22.5° | 2596.3 | 2614.6 | 2625.1 | 2673.8 | 2830.4 | 3222.6 | 3924.8 | 4773.0 | 5262.6 | 5265.5 | 5163.7 |
| 25° | 2768.0 | 2786.3 | 2774.2 | 2804.5 | 2873.0 | 3180.0 | 3891.4 | 4944.8 | 5663.8 | 5697.3 | 5581.7 |
| 27.5° | 3050.8 | 3052.3 | 3023.4 | 3021.9 | 3032.6 | 3243.8 | 3926.4 | 5128.8 | 6170.0 | 6232.3 | 6089.4 |
| 30° | 3617.7 | 3595.0 | 3484.0 | 3363.9 | 3309.2 | 3435.4 | 4023.6 | 5346.1 | 6767.4 | 6878.4 | 6699.0 |
| 32.5° | 4491.9 | 4458.3 | 4254.7 | 3967.4 | 3678.6 | 3743.9 | 4198.5 | 5593.9 | 7418.0 | 7618.6 | 7399.8 |
| 35° | 5440.4 | 5431.3 | 5218.5 | 4791.3 | 4286.7 | 4183.2 | 4482.7 | 5919.2 | 8127.8 | 8447.1 | 8187.2 |
| 37.5° | 6322.0 | 6317.5 | 6195.8 | 5692.6 | 5078.6 | 4795.9 | 4938.8 | 6344.9 | 8887.9 | 9350.0 | 9043.0 |
| 40° | 7127.6 | 7141.4 | 7019.7 | 6569.7 | 5951.2 | 5581.7 | 5558.9 | 6870.8 | 9733.1 | 10333.5 | 9968.6 |
| 42.5° | 7823.8 | 7839.1 | 7715.9 | 7383.0 | 6813.0 | 6451.2 | 6320.5 | 7515.3 | 10558.4 | 11389.9 | 10958.3 |
| 45° | 8296.6 | 8390.9 | 8372.6 | 8106.6 | 7697.6 | 7322.2 | 7235.6 | 8323.9 | 11499.4 | 12510.2 | 12004.1 |
| 47.5° | 8430.3 | 8517.0 | 8653.8 | 8690.3 | 8441.0 | 8071.6 | 8175.0 | 9298.3 | 12451.0 | 13632.1 | 13055.9 |
| 50° | 8100.5 | 8181.0 | 8465.3 | 8843.8 | 9017.1 | 8903.2 | 9088.6 | 10342.7 | 13425.3 | 14750.9 | 14088.1 |
| 52.5° | 7449.9 | 7532.0 | 7890.8 | 8489.7 | 9196.5 | 9555.3 | 10005.1 | 11371.8 | 14369.3 | 15810.3 | 15065.4 |
| 55° | 6509.0 | 6595.7 | 7056.2 | 7734.1 | 8854.5 | 9824.3 | 10769.8 | 12399.3 | 15234.3 | 16763.5 | 15947.2 |
| 57.5° | 5229.0 | 5292.9 | 5771.8 | 6720.3 | 7994.1 | 9556.7 | 11333.7 | 13521.1 | 16049.0 | 17699.8 | 16821.2 |
| 60° | 3408.0 | 3464.3 | 4020.6 | 5078.6 | 6568.3 | 8662.9 | 11446.2 | 14772.1 | 17131.3 | 18917.4 | 17999.2 |
| 62.5° | 2266.5 | 2304.4 | 2634.2 | 3411.1 | 4625.6 | 6946.7 | 10788.0 | 15770.9 | 18718.2 | 21036.4 | 20019.5 |
| 65° | 1555.0 | 1593.1 | 1922.9 | 2464.0 | 2988.5 | 4595.2 | 8895.5 | 15638.5 | 20156.2 | 22719.1 | 21516.7 |
| 67.5° | 1109.7 | 1141.5 | 1421.3 | 1932.0 | 2163.1 | 2669.3 | 6030.2 | 13948.2 | 19949.5 | 22783.0 | 21597.3 |
| 70° | 795.0 | 813.2 | 1044.3 | 1504.9 | 1719.2 | 1603.7 | 3353.3 | 10667.9 | 17467.2 | 21037.9 | 19952.5 |
| 72.5° | 556.4 | 562.4 | 725.1 | 1146.2 | 1384.8 | 1170.4 | 1596.1 | 7112.5 | 13211.0 | 16512.6 | 15468.3 |
| 75° | 377.0 | 384.6 | 487.9 | 840.6 | 1111.2 | 893.8 | 845.2 | 3813.9 | 7755.5 | 9140.2 | 8193.2 |
| 77.5° | 231.0 | 234.1 | 314.7 | 574.6 | 831.5 | 681.0 | 544.2 | 1615.8 | 3000.6 | 2946.0 | 2511.1 |
| 80° | 130.7 | 130.7 | 200.7 | 357.2 | 567.0 | 439.3 | 381.5 | 687.1 | 950.1 | 834.6 | 735.7 |
| 82.5° | 73.0 | 74.5 | 146.0 | 221.9 | 375.5 | 259.9 | 209.8 | 317.6 | 410.4 | 363.3 | 316.2 |
| 85° | 30.4 | 33.4 | 89.7 | 104.9 | 179.4 | 129.3 | 85.1 | 133.8 | 152.0 | 135.3 | 98.8 |
| 87.5° | 3.1 | 4.5 | 27.4 | 19.8 | 21.3 | 25.8 | 12.2 | 25.8 | 21.3 | 21.3 | 15.2 |
| 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° | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 | 3497.7 |
| 2.5° | 3520.5 | 3497.7 | 3439.9 | 3373.1 | 3284.9 | 3242.3 | 3184.6 | 3145.0 | 3111.6 | 3114.7 | 3084.2 |
| 5° | 3588.9 | 3531.1 | 3402.0 | 3240.8 | 3040.1 | 2897.3 | 2745.3 | 2640.4 | 2555.2 | 2537.0 | 2496.0 |
| 7.5° | 3683.1 | 3591.9 | 3365.5 | 3075.1 | 2736.1 | 2479.3 | 2249.7 | 2102.3 | 1997.4 | 1963.9 | 1930.5 |
| 10° | 3804.8 | 3672.5 | 3318.3 | 2866.8 | 2378.9 | 2052.2 | 1805.8 | 1690.3 | 1618.9 | 1594.6 | 1576.3 |
| 12.5° | 3946.1 | 3765.2 | 3256.0 | 2613.0 | 2011.0 | 1696.4 | 1539.9 | 1482.0 | 1459.3 | 1451.7 | 1447.1 |
| 15° | 4124.0 | 3880.8 | 3161.7 | 2312.0 | 1699.4 | 1479.1 | 1412.1 | 1404.6 | 1407.6 | 1404.6 | 1403.0 |
| 17.5° | 4335.2 | 4006.9 | 3008.3 | 2001.9 | 1489.6 | 1368.1 | 1343.8 | 1349.8 | 1357.4 | 1355.9 | 1352.9 |
| 20° | 4566.3 | 4131.6 | 2812.2 | 1726.8 | 1346.7 | 1289.0 | 1275.3 | 1281.5 | 1287.5 | 1284.4 | 1283.0 |
| 22.5° | 4829.3 | 4265.3 | 2594.8 | 1512.5 | 1251.0 | 1216.1 | 1200.9 | 1202.4 | 1202.4 | 1196.3 | 1193.3 |
| 25° | 5144.0 | 4412.8 | 2366.7 | 1360.5 | 1178.0 | 1150.7 | 1132.4 | 1126.4 | 1117.2 | 1099.0 | 1095.9 |
| 27.5° | 5519.4 | 4569.3 | 2147.9 | 1254.1 | 1120.3 | 1094.5 | 1073.2 | 1058.0 | 1035.1 | 1004.8 | 1001.7 |
| 30° | 5942.0 | 4759.4 | 1962.5 | 1187.2 | 1074.7 | 1048.9 | 1024.5 | 1001.7 | 968.3 | 930.3 | 927.2 |
| 32.5° | 6439.0 | 4963.0 | 1827.2 | 1143.1 | 1033.6 | 1006.2 | 977.4 | 950.1 | 913.6 | 875.6 | 877.1 |
| 35° | 7031.9 | 5209.4 | 1748.1 | 1112.7 | 1001.7 | 965.2 | 933.4 | 902.9 | 875.6 | 842.1 | 839.1 |
| 37.5° | 7674.9 | 5470.7 | 1723.7 | 1097.5 | 980.4 | 924.2 | 887.8 | 866.4 | 863.4 | 843.7 | 842.1 |
| 40° | 8378.7 | 5780.9 | 1742.0 | 1088.3 | 957.7 | 884.7 | 845.2 | 840.6 | 848.2 | 813.2 | 814.8 |
| 42.5° | 9123.5 | 6148.8 | 1772.4 | 1077.7 | 925.7 | 845.2 | 807.2 | 807.2 | 801.0 | 752.5 | 752.5 |
| 45° | 9929.2 | 6572.8 | 1802.8 | 1051.9 | 887.8 | 805.6 | 776.7 | 766.1 | 740.3 | 693.1 | 691.7 |
| 47.5° | 10740.9 | 7004.5 | 1825.6 | 1004.8 | 842.1 | 772.2 | 746.4 | 722.0 | 684.1 | 641.4 | 639.9 |
| 50° | 11511.6 | 7392.1 | 1801.3 | 934.8 | 790.5 | 740.3 | 712.9 | 679.5 | 638.5 | 609.6 | 605.0 |
| 52.5° | 12200.2 | 7728.1 | 1697.9 | 852.8 | 735.7 | 706.8 | 682.5 | 647.6 | 614.1 | 583.7 | 580.7 |
| 55° | 12799.1 | 8000.1 | 1515.6 | 775.2 | 687.1 | 677.9 | 653.6 | 609.6 | 564.0 | 538.1 | 535.0 |
| 57.5° | 13373.7 | 8206.9 | 1287.5 | 711.3 | 643.0 | 646.1 | 609.6 | 570.0 | 527.5 | 500.1 | 497.0 |
| 60° | 14138.2 | 8483.5 | 1056.5 | 652.1 | 595.8 | 605.0 | 565.5 | 536.6 | 483.4 | 448.4 | 443.8 |
| 62.5° | 15360.4 | 8913.7 | 839.1 | 579.1 | 541.1 | 544.2 | 527.5 | 492.5 | 428.7 | 387.7 | 384.6 |
| 65° | 16330.2 | 8755.7 | 661.2 | 500.1 | 478.8 | 483.4 | 483.4 | 445.4 | 377.0 | 329.8 | 325.3 |
| 67.5° | 16220.7 | 7497.1 | 527.5 | 422.6 | 419.5 | 422.6 | 433.3 | 401.3 | 334.5 | 296.4 | 290.4 |
| 70° | 14942.3 | 5963.2 | 422.6 | 351.2 | 364.8 | 357.2 | 387.7 | 366.3 | 300.9 | 263.0 | 258.4 |
| 72.5° | 12192.6 | 4295.8 | 322.3 | 290.4 | 279.7 | 291.8 | 349.6 | 329.8 | 250.8 | 208.3 | 203.7 |
| 75° | 7124.6 | 2292.3 | 240.2 | 229.5 | 202.1 | 243.2 | 310.1 | 281.3 | 191.6 | 153.5 | 148.9 |
| 77.5° | 2319.7 | 799.6 | 176.3 | 168.7 | 150.5 | 196.1 | 264.4 | 237.1 | 156.5 | 121.6 | 117.1 |
| 80° | 621.7 | 241.7 | 120.1 | 111.0 | 97.3 | 146.0 | 209.8 | 188.5 | 112.4 | 79.0 | 77.5 |
| 82.5° | 249.3 | 101.9 | 69.9 | 62.3 | 53.2 | 100.3 | 165.6 | 152.0 | 83.6 | 50.1 | 50.1 |
| 85° | 80.6 | 33.4 | 25.8 | 19.8 | 24.3 | 62.3 | 98.8 | 103.3 | 59.2 | 25.8 | 19.8 |
| 87.5° | 10.7 | 4.5 | 4.5 | 6.0 | 4.5 | 10.7 | 30.4 | 28.9 | 16.7 | 3.1 | 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)