

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: P964546

Luminaire Tested: **NAV-SB3C-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17438.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

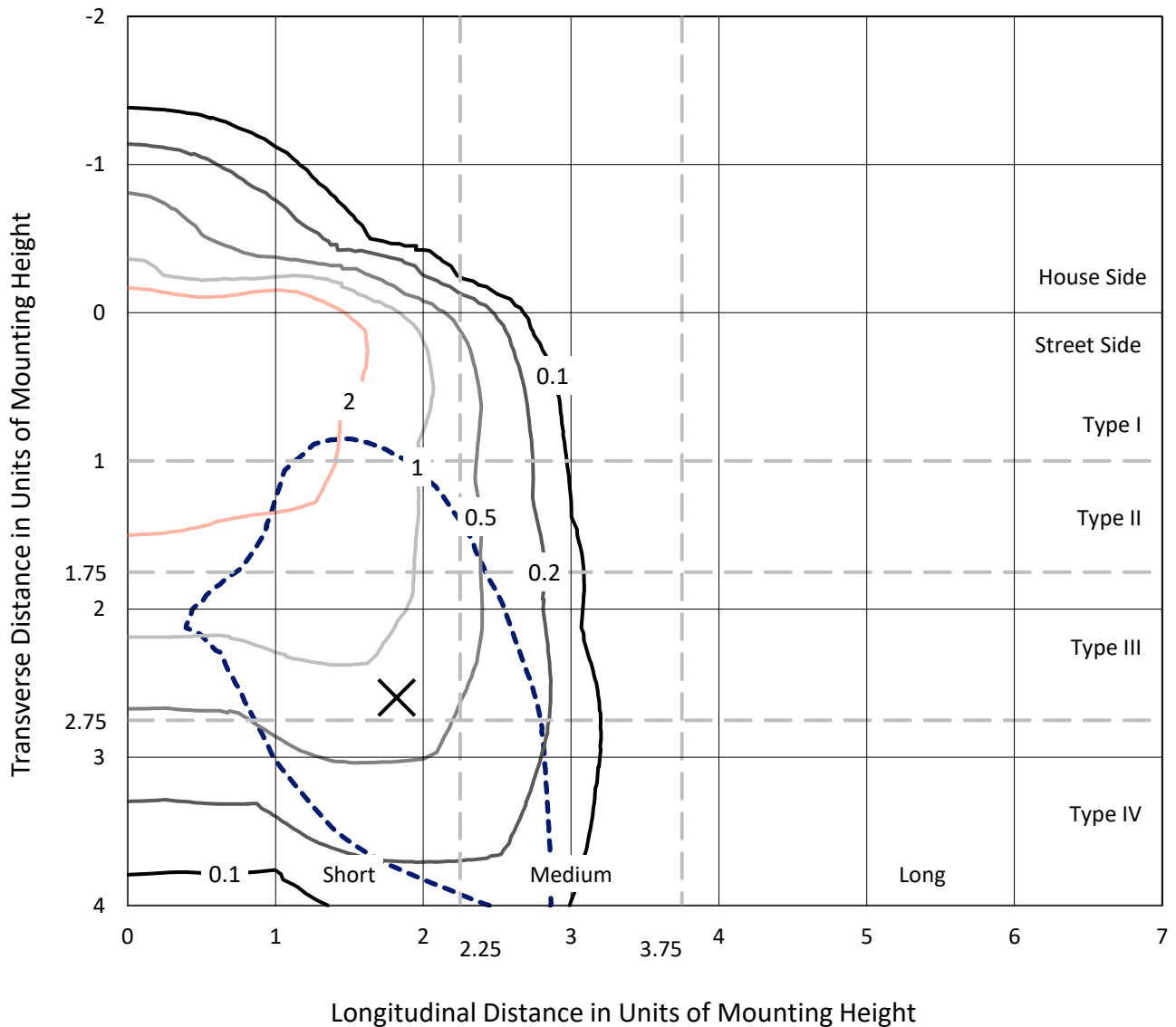
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

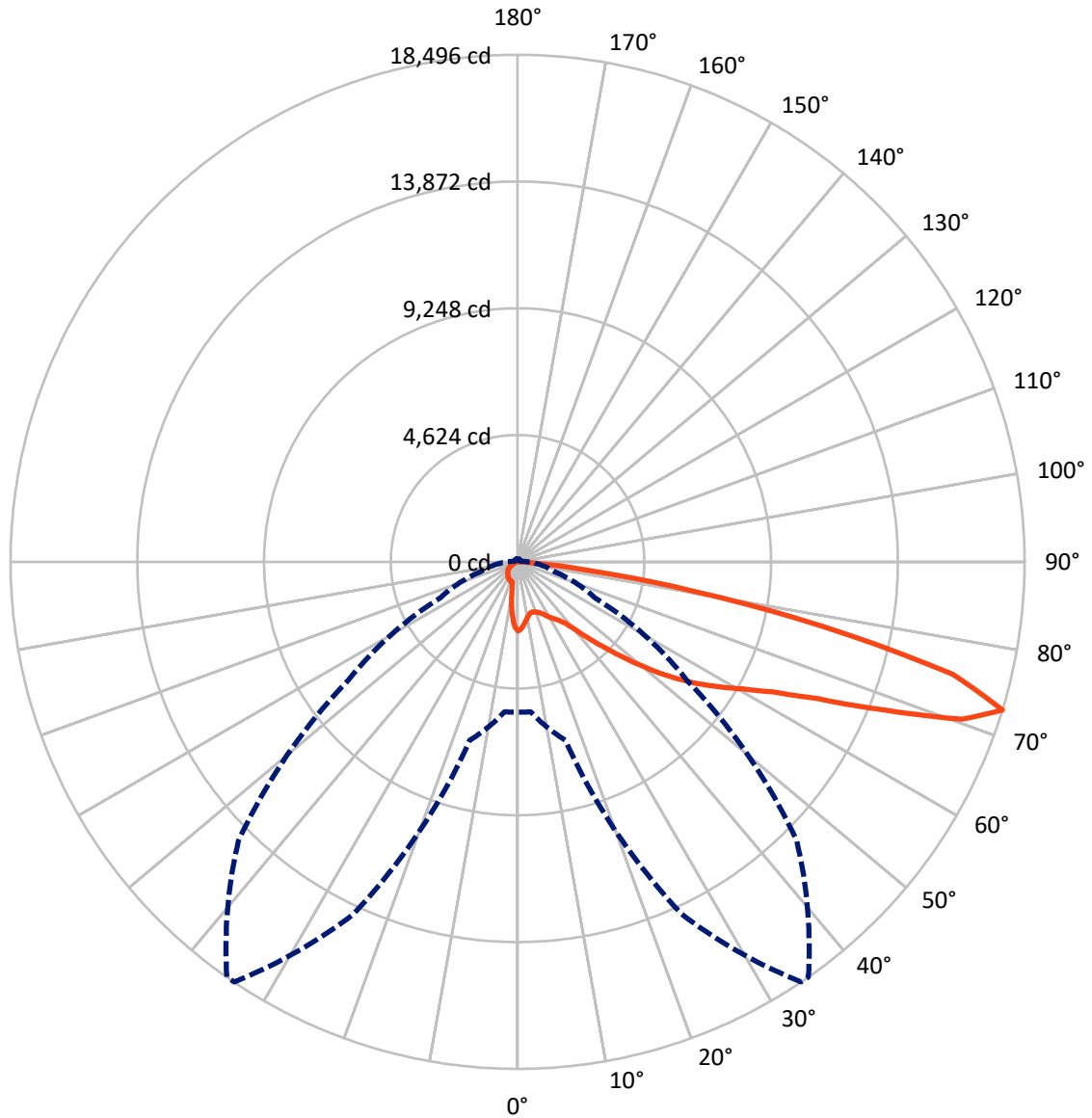
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1962.6 | 0.0 | 1962.6 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 15475.7 | 0.0 | 15475.7 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 17438.3 | 0.0 | 17438.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 207.7 | 1.2 |
| 10°-20° | 485.9 | 2.8 |
| 20°-30° | 789.3 | 4.5 |
| 30°-40° | 1316.9 | 7.6 |
| 40°-50° | 2491.5 | 14.3 |
| 50°-60° | 3959.1 | 22.7 |
| 60°-70° | 4897.6 | 28.1 |
| 70°-80° | 3044.4 | 17.5 |
| 80°-90° | 246.0 | 1.4 |
| 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° | 17438.3 | 100.0 |
| 0°-180° | 17438.3 | 100.0 |

Coefficient of Utilization



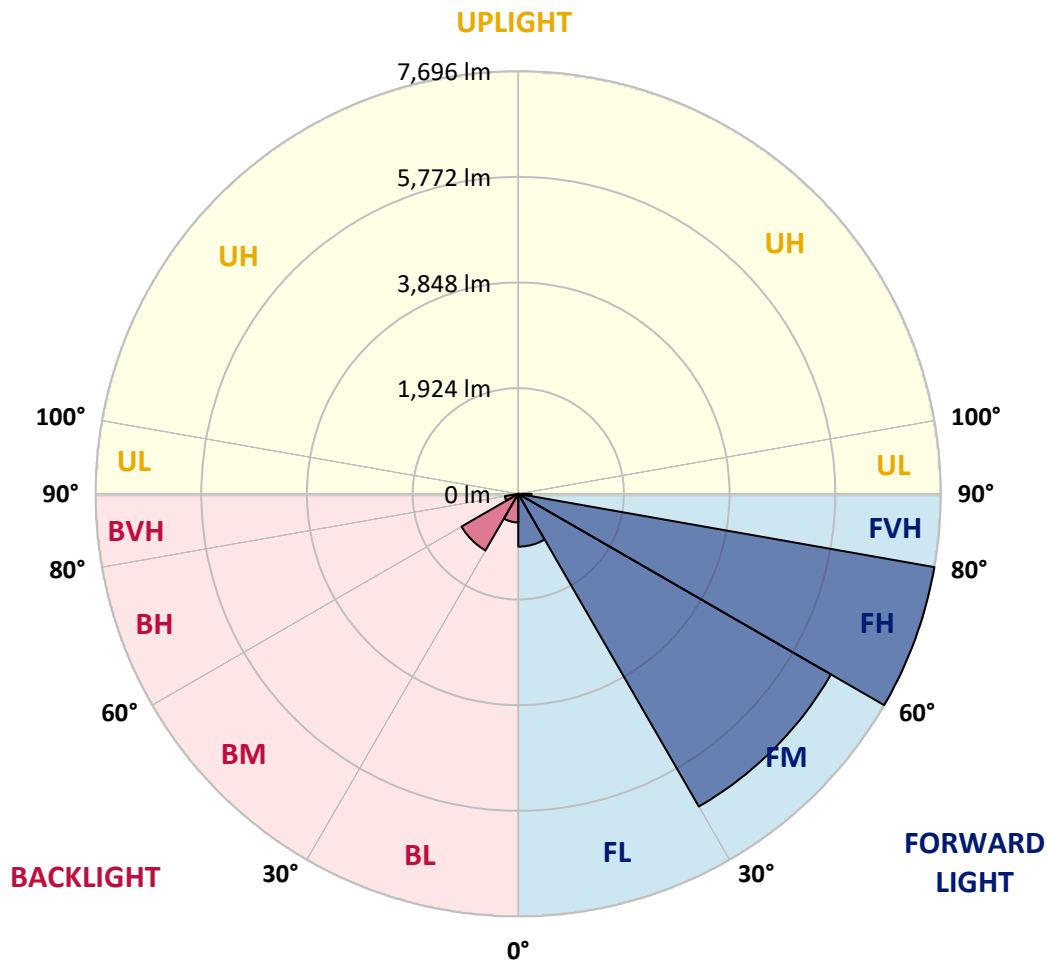
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 961.3 | 5.5 | | | |
| FM (30°-60°) | 6576.0 | 37.7 | | | |
| FH (60°-80°) | 7695.7 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 242.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 521.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1191.5 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 246.3 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 |
| 2.5° | 2415.0 | 2435.4 | 2439.2 | 2445.6 | 2445.6 | 2453.3 | 2466.0 | 2484.0 | 2513.3 | 2528.7 | 2538.9 |
| 5° | 2225.9 | 2241.2 | 2260.3 | 2275.7 | 2305.0 | 2308.9 | 2358.7 | 2407.3 | 2475.0 | 2526.1 | 2561.9 |
| 7.5° | 2035.4 | 2053.4 | 2078.9 | 2116.0 | 2154.2 | 2165.8 | 2241.2 | 2323.0 | 2430.3 | 2526.1 | 2586.2 |
| 10° | 1901.3 | 1902.6 | 1925.6 | 1962.7 | 2024.0 | 2038.0 | 2130.1 | 2246.3 | 2380.5 | 2510.7 | 2609.1 |
| 12.5° | 1825.9 | 1834.9 | 1845.1 | 1873.2 | 1931.9 | 1940.9 | 2039.3 | 2176.0 | 2330.6 | 2501.8 | 2636.0 |
| 15° | 1825.9 | 1832.3 | 1838.6 | 1852.8 | 1900.0 | 1907.7 | 1994.5 | 2131.3 | 2305.0 | 2505.7 | 2679.5 |
| 17.5° | 1845.1 | 1855.2 | 1850.2 | 1866.8 | 1916.6 | 1921.8 | 1998.4 | 2118.5 | 2303.8 | 2529.9 | 2745.9 |
| 20° | 1891.1 | 1898.7 | 1888.6 | 1898.7 | 1948.5 | 1958.8 | 2038.0 | 2142.8 | 2325.5 | 2572.1 | 2828.9 |
| 22.5° | 1963.9 | 1967.7 | 1943.5 | 1951.1 | 2002.2 | 2015.0 | 2107.0 | 2211.7 | 2377.9 | 2639.9 | 2940.1 |
| 25° | 2055.9 | 2063.5 | 2026.5 | 2035.4 | 2084.0 | 2099.3 | 2205.4 | 2315.3 | 2460.9 | 2733.2 | 3082.0 |
| 27.5° | 2161.9 | 2165.8 | 2133.8 | 2132.6 | 2195.1 | 2216.9 | 2324.2 | 2443.1 | 2572.1 | 2850.6 | 3260.8 |
| 30° | 2283.4 | 2294.9 | 2264.2 | 2259.1 | 2338.3 | 2356.2 | 2462.3 | 2600.2 | 2735.6 | 3027.0 | 3515.1 |
| 32.5° | 2379.1 | 2388.1 | 2370.2 | 2383.0 | 2463.5 | 2477.5 | 2629.6 | 2822.5 | 2992.5 | 3277.4 | 3861.4 |
| 35° | 2517.2 | 2522.3 | 2481.4 | 2504.4 | 2596.4 | 2632.2 | 2858.3 | 3134.3 | 3315.8 | 3591.8 | 4313.7 |
| 37.5° | 3016.8 | 3016.8 | 2843.0 | 2729.3 | 2817.4 | 2849.4 | 3171.4 | 3526.6 | 3714.4 | 4013.4 | 4883.6 |
| 40° | 3708.0 | 3696.6 | 3442.3 | 3209.7 | 3198.2 | 3260.8 | 3617.3 | 4021.1 | 4229.4 | 4519.4 | 5525.1 |
| 42.5° | 4445.3 | 4427.4 | 4081.1 | 3851.1 | 3812.8 | 3834.5 | 4132.3 | 4630.5 | 4842.7 | 5136.6 | 6215.0 |
| 45° | 5099.5 | 5094.5 | 4777.5 | 4468.3 | 4399.3 | 4468.3 | 4775.0 | 5343.5 | 5495.6 | 5804.9 | 6903.7 |
| 47.5° | 5647.6 | 5647.6 | 5416.4 | 5214.5 | 5178.7 | 5219.6 | 5645.1 | 6134.5 | 6120.5 | 6516.5 | 7574.5 |
| 50° | 6278.8 | 6273.8 | 6054.0 | 5967.1 | 6004.1 | 6061.6 | 6646.9 | 6967.6 | 6766.9 | 7215.5 | 8173.8 |
| 52.5° | 6721.0 | 6751.7 | 6676.2 | 6662.2 | 6851.3 | 6950.9 | 7663.9 | 7782.8 | 7345.8 | 7878.7 | 8622.3 |
| 55° | 7071.1 | 7106.8 | 7193.8 | 7292.2 | 7656.3 | 7786.6 | 8649.2 | 8555.9 | 7830.1 | 8453.6 | 8880.4 |
| 57.5° | 7566.9 | 7515.7 | 7649.9 | 7844.1 | 8433.2 | 8590.3 | 9603.6 | 9285.5 | 8219.8 | 8920.0 | 8908.5 |
| 60° | 8168.6 | 8176.3 | 8199.4 | 8444.7 | 9208.8 | 9410.6 | 10544.1 | 9975.4 | 8470.2 | 9206.2 | 8596.8 |
| 62.5° | 8891.9 | 8903.4 | 8950.7 | 9327.6 | 10250.1 | 10440.5 | 11545.8 | 10540.2 | 8585.2 | 9125.7 | 7791.7 |
| 65° | 8842.1 | 8890.6 | 9418.3 | 10707.6 | 11833.3 | 12021.1 | 12714.9 | 10936.3 | 8411.5 | 8389.7 | 6344.0 |
| 67.5° | 8055.0 | 8134.2 | 9017.1 | 12355.9 | 14220.1 | 14429.6 | 14128.1 | 11014.2 | 7661.5 | 6524.2 | 4138.6 |
| 70° | 7022.6 | 7050.7 | 8112.5 | 13838.1 | 16983.9 | 17196.0 | 15393.1 | 10156.8 | 5813.8 | 3639.1 | 1854.0 |
| 72.5° | 5484.2 | 5490.5 | 6736.3 | 14181.8 | 18484.0 | 18495.5 | 14400.3 | 7540.0 | 3126.7 | 1397.9 | 644.0 |
| 75° | 3917.6 | 3879.2 | 4511.7 | 11501.1 | 16261.9 | 16392.3 | 10795.7 | 3536.9 | 1194.7 | 660.6 | 320.7 |
| 77.5° | 2100.6 | 2142.8 | 2553.0 | 6820.7 | 11234.0 | 11456.3 | 5890.5 | 1019.7 | 608.2 | 449.8 | 212.1 |
| 80° | 649.1 | 684.9 | 1046.5 | 3122.9 | 6363.2 | 6497.4 | 2183.7 | 453.6 | 424.2 | 320.7 | 139.3 |
| 82.5° | 204.5 | 212.1 | 488.1 | 1312.2 | 2641.1 | 2702.4 | 632.5 | 256.9 | 290.1 | 212.1 | 81.8 |
| 85° | 58.7 | 60.1 | 217.2 | 489.3 | 652.9 | 665.7 | 177.6 | 99.6 | 166.2 | 131.6 | 42.1 |
| 87.5° | 6.4 | 20.4 | 81.8 | 81.8 | 57.5 | 56.2 | 19.2 | 21.7 | 47.3 | 16.6 | 7.7 |
| 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° | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 | 2527.4 |
| 2.5° | 2532.5 | 2533.8 | 2517.2 | 2489.1 | 2458.4 | 2432.8 | 2400.9 | 2375.3 | 2357.5 | 2352.4 | 2361.3 |
| 5° | 2550.4 | 2541.5 | 2494.1 | 2408.5 | 2306.4 | 2218.2 | 2119.8 | 2041.9 | 1990.8 | 1969.0 | 1976.7 |
| 7.5° | 2577.3 | 2551.6 | 2448.2 | 2279.5 | 2084.0 | 1910.3 | 1733.9 | 1597.2 | 1510.3 | 1466.9 | 1473.2 |
| 10° | 2600.2 | 2549.1 | 2371.5 | 2092.9 | 1794.0 | 1530.7 | 1293.0 | 1128.2 | 1036.3 | 992.8 | 994.0 |
| 12.5° | 2622.0 | 2547.8 | 2271.8 | 1872.0 | 1466.9 | 1144.8 | 923.8 | 842.0 | 816.5 | 807.5 | 805.0 |
| 15° | 2662.8 | 2551.6 | 2146.7 | 1618.9 | 1141.0 | 865.0 | 784.5 | 783.3 | 788.3 | 785.9 | 784.5 |
| 17.5° | 2719.0 | 2555.5 | 2004.8 | 1350.5 | 880.4 | 762.8 | 759.0 | 770.5 | 778.2 | 774.3 | 773.1 |
| 20° | 2791.9 | 2570.8 | 1854.0 | 1084.9 | 756.4 | 737.3 | 746.2 | 756.4 | 762.8 | 756.4 | 755.1 |
| 22.5° | 2894.1 | 2597.7 | 1689.2 | 871.5 | 716.8 | 721.9 | 729.6 | 741.1 | 747.5 | 738.5 | 737.3 |
| 25° | 3019.3 | 2639.9 | 1526.9 | 757.7 | 697.6 | 704.1 | 715.6 | 728.4 | 735.9 | 727.0 | 725.8 |
| 27.5° | 3181.6 | 2707.5 | 1377.4 | 732.2 | 678.4 | 682.3 | 698.9 | 718.1 | 728.4 | 716.8 | 716.8 |
| 30° | 3416.7 | 2818.7 | 1248.3 | 743.6 | 667.0 | 658.0 | 681.0 | 707.9 | 719.3 | 709.2 | 707.9 |
| 32.5° | 3728.4 | 2975.9 | 1169.1 | 761.6 | 661.8 | 630.0 | 651.7 | 686.1 | 705.3 | 698.9 | 698.9 |
| 35° | 4137.4 | 3214.8 | 1138.5 | 782.0 | 658.0 | 600.5 | 615.9 | 652.9 | 686.1 | 692.6 | 692.6 |
| 37.5° | 4633.1 | 3547.0 | 1147.4 | 790.9 | 646.6 | 576.3 | 583.9 | 615.9 | 659.3 | 679.8 | 684.9 |
| 40° | 5196.6 | 3934.2 | 1198.5 | 782.0 | 633.8 | 555.9 | 557.1 | 581.4 | 619.7 | 650.4 | 660.6 |
| 42.5° | 5778.0 | 4386.5 | 1293.0 | 748.8 | 622.3 | 537.9 | 534.1 | 550.7 | 576.3 | 598.0 | 606.9 |
| 45° | 6331.3 | 4851.6 | 1386.3 | 702.7 | 608.2 | 520.1 | 511.1 | 517.5 | 522.6 | 531.6 | 536.7 |
| 47.5° | 6814.3 | 5178.7 | 1359.6 | 660.6 | 589.1 | 499.6 | 484.3 | 481.7 | 466.4 | 465.1 | 463.8 |
| 50° | 7147.7 | 5250.3 | 1207.4 | 618.4 | 561.0 | 476.6 | 452.3 | 437.0 | 410.2 | 397.4 | 398.6 |
| 52.5° | 7253.8 | 4967.9 | 986.5 | 576.3 | 515.0 | 446.0 | 411.4 | 387.1 | 353.9 | 342.5 | 341.1 |
| 55° | 7113.3 | 4414.7 | 788.3 | 525.1 | 451.0 | 405.1 | 366.7 | 334.8 | 307.9 | 293.9 | 293.9 |
| 57.5° | 6769.5 | 3710.6 | 623.5 | 465.1 | 383.3 | 359.1 | 320.7 | 288.7 | 265.8 | 251.7 | 249.2 |
| 60° | 6199.7 | 2946.5 | 493.2 | 393.5 | 327.1 | 309.2 | 269.6 | 249.2 | 228.7 | 212.1 | 208.3 |
| 62.5° | 5334.6 | 2103.2 | 387.1 | 311.8 | 273.5 | 253.0 | 230.0 | 214.6 | 190.3 | 167.4 | 163.6 |
| 65° | 4162.9 | 1286.7 | 299.0 | 228.7 | 219.8 | 209.5 | 195.5 | 181.4 | 152.0 | 129.0 | 125.3 |
| 67.5° | 2625.7 | 609.5 | 213.4 | 172.5 | 173.7 | 168.6 | 162.3 | 150.8 | 129.0 | 108.6 | 106.1 |
| 70° | 1156.4 | 295.2 | 140.5 | 131.6 | 129.0 | 129.0 | 134.2 | 130.4 | 109.9 | 90.7 | 86.9 |
| 72.5° | 393.5 | 158.5 | 104.8 | 99.6 | 93.3 | 92.0 | 112.4 | 108.6 | 88.1 | 70.3 | 66.4 |
| 75° | 205.7 | 106.1 | 76.7 | 71.5 | 56.2 | 67.8 | 89.5 | 84.4 | 62.6 | 46.0 | 42.1 |
| 77.5° | 134.2 | 75.3 | 52.4 | 46.0 | 32.0 | 44.7 | 66.4 | 58.7 | 37.1 | 23.0 | 20.4 |
| 80° | 84.4 | 49.8 | 30.6 | 21.7 | 15.4 | 24.3 | 35.8 | 25.5 | 14.0 | 5.1 | 3.8 |
| 82.5° | 44.7 | 25.5 | 11.5 | 7.7 | 6.4 | 7.7 | 8.9 | 6.4 | 2.6 | 0.0 | 0.0 |
| 85° | 17.9 | 8.9 | 3.8 | 2.6 | 1.2 | 0.0 | 2.6 | 1.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)