

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: P962367

Luminaire Tested: **NAV-SB2C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10736.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

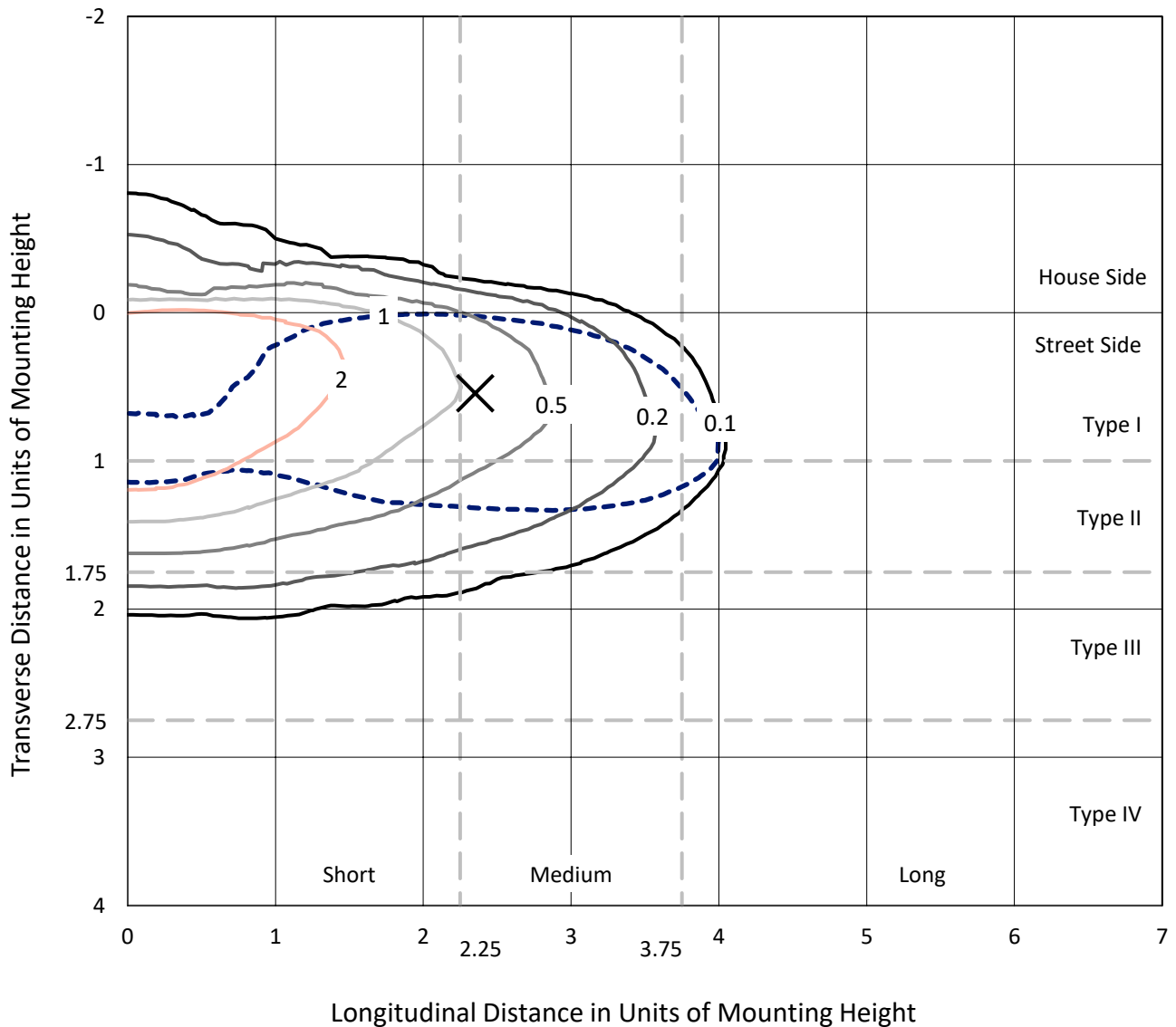
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

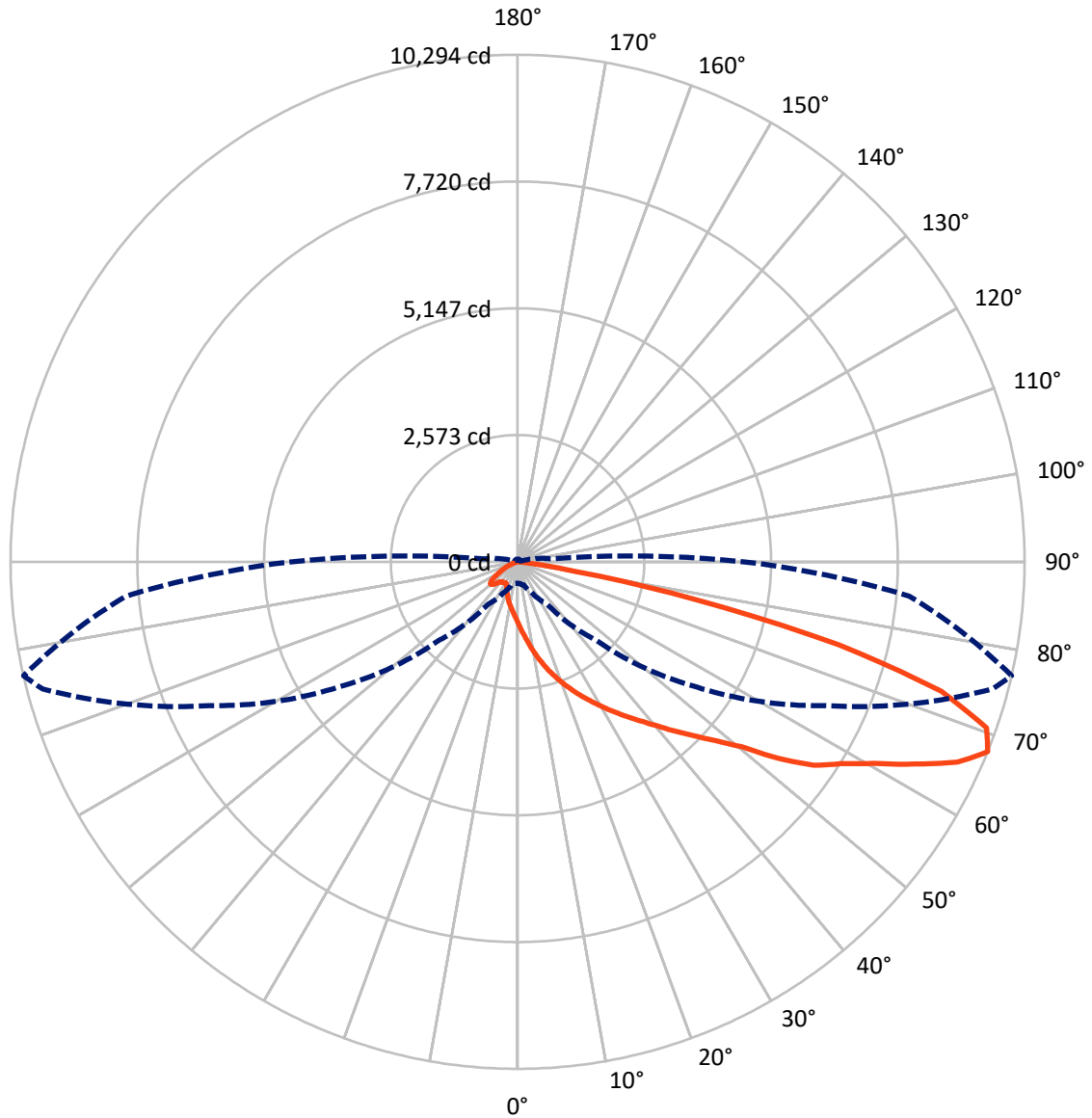
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 789.9 | 0.0 | 789.9 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 9947.0 | 0.0 | 9947.0 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 10736.9 | 0.0 | 10736.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 126.4 | 1.2 |
| 10°-20° | 442.5 | 4.1 |
| 20°-30° | 854.0 | 8.0 |
| 30°-40° | 1482.5 | 13.8 |
| 40°-50° | 2152.6 | 20.0 |
| 50°-60° | 2472.0 | 23.0 |
| 60°-70° | 2146.1 | 20.0 |
| 70°-80° | 1010.8 | 9.4 |
| 80°-90° | 50.0 | 0.5 |
| 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° | 10736.9 | 100.0 |
| 0°-180° | 10736.9 | 100.0 |

Coefficient of Utilization

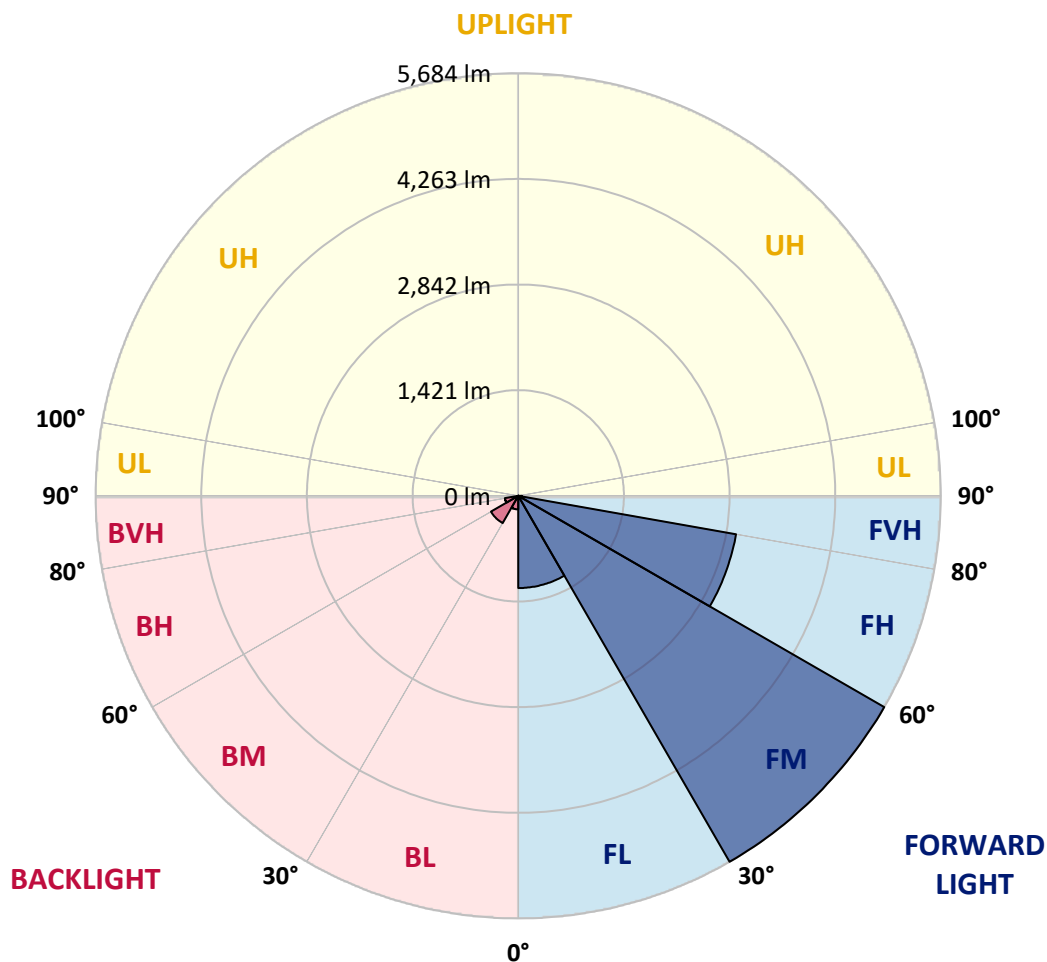


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1240.0 | 11.5 | | | |
| FM (30°-60°) | 5683.8 | 52.9 | | | |
| FH (60°-80°) | 2974.1 | 27.7 | | | G2/5000 |
| FVH (80°-90°) | 49.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 182.9 | 1.7 | B1/500 | | |
| BM (30°-60°) | 423.3 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 182.9 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 0° | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 |
| 2.5° | 1714.2 | 1724.9 | 1709.5 | 1680.2 | 1636.2 | 1607.5 | 1537.5 | 1471.5 | 1398.1 | 1374.8 | 1301.4 |
| 5° | 2089.6 | 2098.9 | 2081.6 | 2049.5 | 1990.9 | 1934.9 | 1842.8 | 1704.8 | 1561.5 | 1515.5 | 1385.5 |
| 7.5° | 2367.5 | 2372.9 | 2366.2 | 2336.9 | 2280.9 | 2217.6 | 2114.9 | 1951.5 | 1738.8 | 1688.2 | 1488.8 |
| 10° | 2567.6 | 2584.9 | 2582.9 | 2571.6 | 2534.2 | 2482.9 | 2373.6 | 2187.6 | 1937.6 | 1872.2 | 1605.5 |
| 12.5° | 2700.3 | 2719.6 | 2730.9 | 2756.2 | 2754.3 | 2721.6 | 2625.5 | 2428.9 | 2135.6 | 2058.8 | 1736.9 |
| 15° | 2738.9 | 2759.6 | 2803.0 | 2861.6 | 2913.7 | 2930.3 | 2862.9 | 2665.6 | 2353.6 | 2255.5 | 1871.5 |
| 17.5° | 2717.0 | 2748.9 | 2800.9 | 2893.6 | 3007.7 | 3083.0 | 3075.6 | 2894.3 | 2551.5 | 2439.6 | 2003.6 |
| 20° | 2765.6 | 2796.3 | 2836.9 | 2915.0 | 3047.6 | 3184.3 | 3239.0 | 3112.9 | 2748.2 | 2631.0 | 2142.2 |
| 22.5° | 3034.9 | 3029.6 | 3033.6 | 3046.3 | 3125.6 | 3260.9 | 3373.7 | 3311.7 | 2943.0 | 2823.0 | 2288.9 |
| 25° | 3461.6 | 3437.6 | 3397.0 | 3328.3 | 3308.3 | 3373.7 | 3491.0 | 3487.7 | 3148.3 | 3019.6 | 2438.9 |
| 27.5° | 3951.1 | 3947.1 | 3851.7 | 3686.3 | 3593.0 | 3567.7 | 3623.7 | 3659.0 | 3351.6 | 3214.3 | 2589.6 |
| 30° | 4419.8 | 4430.5 | 4301.7 | 4117.7 | 3946.4 | 3847.0 | 3796.4 | 3821.7 | 3558.4 | 3424.3 | 2745.0 |
| 32.5° | 4827.8 | 4839.1 | 4699.1 | 4483.8 | 4271.8 | 4151.8 | 4045.1 | 3982.4 | 3783.7 | 3637.7 | 2915.6 |
| 35° | 5172.5 | 5183.8 | 5023.1 | 4785.1 | 4559.1 | 4450.4 | 4329.7 | 4158.4 | 4010.4 | 3874.4 | 3105.6 |
| 37.5° | 5480.6 | 5477.2 | 5261.8 | 5021.8 | 4799.8 | 4713.8 | 4650.4 | 4375.1 | 4243.7 | 4112.4 | 3316.3 |
| 40° | 5662.5 | 5676.6 | 5492.6 | 5227.8 | 5012.5 | 4949.8 | 4945.8 | 4643.8 | 4513.1 | 4385.8 | 3547.0 |
| 42.5° | 5715.9 | 5740.5 | 5607.2 | 5389.9 | 5194.5 | 5126.5 | 5231.2 | 4934.5 | 4826.4 | 4702.5 | 3807.7 |
| 45° | 5619.9 | 5643.9 | 5583.2 | 5432.5 | 5318.5 | 5274.5 | 5476.6 | 5235.8 | 5161.2 | 5038.5 | 4101.7 |
| 47.5° | 5339.8 | 5369.9 | 5384.5 | 5352.5 | 5351.2 | 5395.8 | 5696.5 | 5553.2 | 5558.6 | 5433.2 | 4442.5 |
| 50° | 4797.8 | 4848.5 | 4983.1 | 5096.5 | 5271.9 | 5491.8 | 5910.6 | 5897.2 | 6006.6 | 5898.6 | 4886.5 |
| 52.5° | 3812.4 | 3884.3 | 4348.5 | 4658.4 | 5052.5 | 5473.9 | 6145.9 | 6449.3 | 6792.7 | 6634.6 | 5512.6 |
| 55° | 3063.6 | 3063.6 | 3441.0 | 4021.1 | 4624.5 | 5355.2 | 6248.6 | 6807.9 | 7328.0 | 7290.7 | 5953.2 |
| 57.5° | 2497.6 | 2527.5 | 2768.2 | 3281.0 | 4005.1 | 5072.5 | 6312.0 | 7033.3 | 7759.5 | 7732.1 | 6383.9 |
| 60° | 1541.5 | 1606.2 | 2060.9 | 2566.9 | 3300.3 | 4569.1 | 6272.0 | 7261.4 | 8282.8 | 8304.8 | 6902.7 |
| 62.5° | 868.1 | 892.1 | 1094.8 | 1846.8 | 2566.3 | 3892.3 | 5965.9 | 7388.7 | 8952.2 | 9045.5 | 7437.4 |
| 65° | 599.4 | 611.4 | 689.4 | 1149.4 | 1778.9 | 3099.0 | 5367.8 | 7309.4 | 9622.9 | 9811.6 | 7890.8 |
| 67.5° | 435.4 | 441.4 | 490.1 | 702.0 | 1055.4 | 2246.9 | 4430.5 | 6909.3 | 9978.3 | 10293.7 | 7977.5 |
| 70° | 334.7 | 338.7 | 374.0 | 461.4 | 623.4 | 1386.8 | 3217.7 | 6113.9 | 9720.9 | 10097.7 | 7533.4 |
| 72.5° | 272.0 | 276.0 | 303.4 | 341.3 | 413.4 | 820.1 | 1950.2 | 4965.1 | 8584.8 | 8991.5 | 6413.3 |
| 75° | 229.4 | 234.7 | 259.3 | 284.0 | 324.0 | 526.7 | 914.7 | 3457.6 | 6456.0 | 6722.7 | 4459.8 |
| 77.5° | 127.3 | 117.4 | 210.6 | 235.3 | 273.4 | 333.3 | 428.0 | 2034.8 | 3615.7 | 3689.7 | 1978.9 |
| 80° | 79.3 | 82.0 | 167.4 | 189.3 | 210.0 | 168.0 | 196.0 | 783.4 | 1253.5 | 1190.7 | 383.3 |
| 82.5° | 4.7 | 10.7 | 128.6 | 136.6 | 144.0 | 72.1 | 74.0 | 266.0 | 302.1 | 277.4 | 68.0 |
| 85° | 0.0 | 0.0 | 58.6 | 47.4 | 50.0 | 20.7 | 21.3 | 62.0 | 40.7 | 44.0 | 13.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 2.0 | 4.0 | 5.3 | 2.0 | 2.7 | 4.7 |
| 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° | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 | 1238.1 |
| 2.5° | 1254.8 | 1208.2 | 1113.5 | 1020.8 | 945.5 | 875.5 | 825.4 | 778.1 | 754.1 | 752.8 | 751.4 |
| 5° | 1292.8 | 1194.7 | 1005.4 | 838.0 | 703.4 | 595.4 | 525.4 | 475.4 | 450.1 | 441.4 | 440.0 |
| 7.5° | 1346.1 | 1198.7 | 910.7 | 678.0 | 519.4 | 426.7 | 386.7 | 370.7 | 365.4 | 359.4 | 358.0 |
| 10° | 1413.5 | 1208.2 | 826.0 | 546.0 | 409.4 | 362.7 | 346.7 | 340.0 | 336.0 | 332.0 | 330.7 |
| 12.5° | 1488.8 | 1216.8 | 742.1 | 453.4 | 360.1 | 336.0 | 324.7 | 316.7 | 311.4 | 306.7 | 305.3 |
| 15° | 1562.1 | 1222.1 | 654.8 | 388.7 | 334.7 | 315.4 | 303.4 | 294.7 | 287.4 | 282.0 | 281.4 |
| 17.5° | 1634.9 | 1229.5 | 572.8 | 350.0 | 314.1 | 294.7 | 282.7 | 272.0 | 266.0 | 260.0 | 259.3 |
| 20° | 1715.5 | 1228.2 | 495.4 | 322.7 | 293.4 | 274.0 | 261.4 | 251.3 | 245.4 | 238.7 | 238.0 |
| 22.5° | 1790.2 | 1221.5 | 427.4 | 299.4 | 272.0 | 253.4 | 239.3 | 229.4 | 223.3 | 218.0 | 217.4 |
| 25° | 1876.2 | 1216.2 | 370.7 | 278.0 | 252.0 | 233.4 | 218.0 | 208.7 | 202.0 | 197.3 | 196.7 |
| 27.5° | 1958.9 | 1208.2 | 329.3 | 258.7 | 232.7 | 214.7 | 200.0 | 189.3 | 183.4 | 180.0 | 180.0 |
| 30° | 2040.2 | 1206.1 | 314.1 | 240.1 | 215.4 | 197.3 | 182.7 | 172.7 | 168.0 | 166.7 | 166.0 |
| 32.5° | 2138.3 | 1211.4 | 320.7 | 233.4 | 199.4 | 181.3 | 167.4 | 160.0 | 155.4 | 155.4 | 155.4 |
| 35° | 2242.9 | 1210.1 | 330.7 | 239.3 | 188.7 | 165.3 | 154.7 | 150.1 | 145.3 | 145.3 | 145.3 |
| 37.5° | 2374.2 | 1212.2 | 338.7 | 249.4 | 184.7 | 152.0 | 146.1 | 140.0 | 137.4 | 137.4 | 137.4 |
| 40° | 2570.3 | 1278.1 | 334.7 | 258.0 | 183.4 | 142.7 | 130.7 | 128.6 | 126.7 | 126.7 | 126.7 |
| 42.5° | 2810.2 | 1421.5 | 340.0 | 258.7 | 182.7 | 136.0 | 120.0 | 124.0 | 119.3 | 118.7 | 118.0 |
| 45° | 3073.0 | 1578.2 | 374.0 | 244.7 | 182.0 | 132.6 | 114.7 | 119.3 | 112.0 | 112.0 | 112.0 |
| 47.5° | 3333.6 | 1733.5 | 408.7 | 224.7 | 180.0 | 132.0 | 110.0 | 107.3 | 105.4 | 106.0 | 106.0 |
| 50° | 3693.0 | 1860.2 | 422.0 | 197.3 | 175.4 | 130.7 | 101.4 | 102.0 | 100.7 | 102.0 | 102.0 |
| 52.5° | 4084.4 | 1886.8 | 406.0 | 166.7 | 162.1 | 126.7 | 95.3 | 98.0 | 97.4 | 98.7 | 98.7 |
| 55° | 4328.4 | 1858.2 | 335.4 | 138.7 | 141.3 | 110.7 | 89.4 | 94.7 | 94.7 | 94.7 | 94.7 |
| 57.5° | 4580.4 | 1736.1 | 238.0 | 112.6 | 117.4 | 90.7 | 84.0 | 91.3 | 90.7 | 90.0 | 90.0 |
| 60° | 4761.8 | 1538.8 | 156.7 | 92.7 | 93.4 | 74.7 | 78.0 | 86.0 | 85.4 | 82.0 | 82.0 |
| 62.5° | 4897.1 | 1320.8 | 100.7 | 78.7 | 71.3 | 67.3 | 71.3 | 78.0 | 75.3 | 68.0 | 66.6 |
| 65° | 4881.8 | 1018.7 | 77.4 | 67.3 | 58.6 | 58.6 | 62.0 | 68.0 | 60.0 | 48.0 | 46.6 |
| 67.5° | 4597.1 | 689.4 | 64.0 | 56.7 | 49.3 | 48.7 | 51.4 | 56.7 | 51.4 | 40.7 | 39.4 |
| 70° | 4088.4 | 450.7 | 51.4 | 44.0 | 39.4 | 36.0 | 41.3 | 48.7 | 43.4 | 32.7 | 31.4 |
| 72.5° | 3318.3 | 274.7 | 38.6 | 32.0 | 28.7 | 23.4 | 32.7 | 40.0 | 34.6 | 24.0 | 22.7 |
| 75° | 2146.9 | 140.0 | 26.6 | 20.7 | 15.4 | 14.0 | 24.0 | 30.0 | 24.0 | 14.7 | 12.7 |
| 77.5° | 821.4 | 58.6 | 14.7 | 9.3 | 8.0 | 6.7 | 13.3 | 18.0 | 10.0 | 3.4 | 2.7 |
| 80° | 158.1 | 24.7 | 7.4 | 4.7 | 4.0 | 2.7 | 2.0 | 1.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 27.4 | 8.0 | 2.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.4 | 0.0 | 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)