

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: STREETWORKS

Report Number: P962929

Luminaire Tested: **NVN-SB2D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19170.6 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

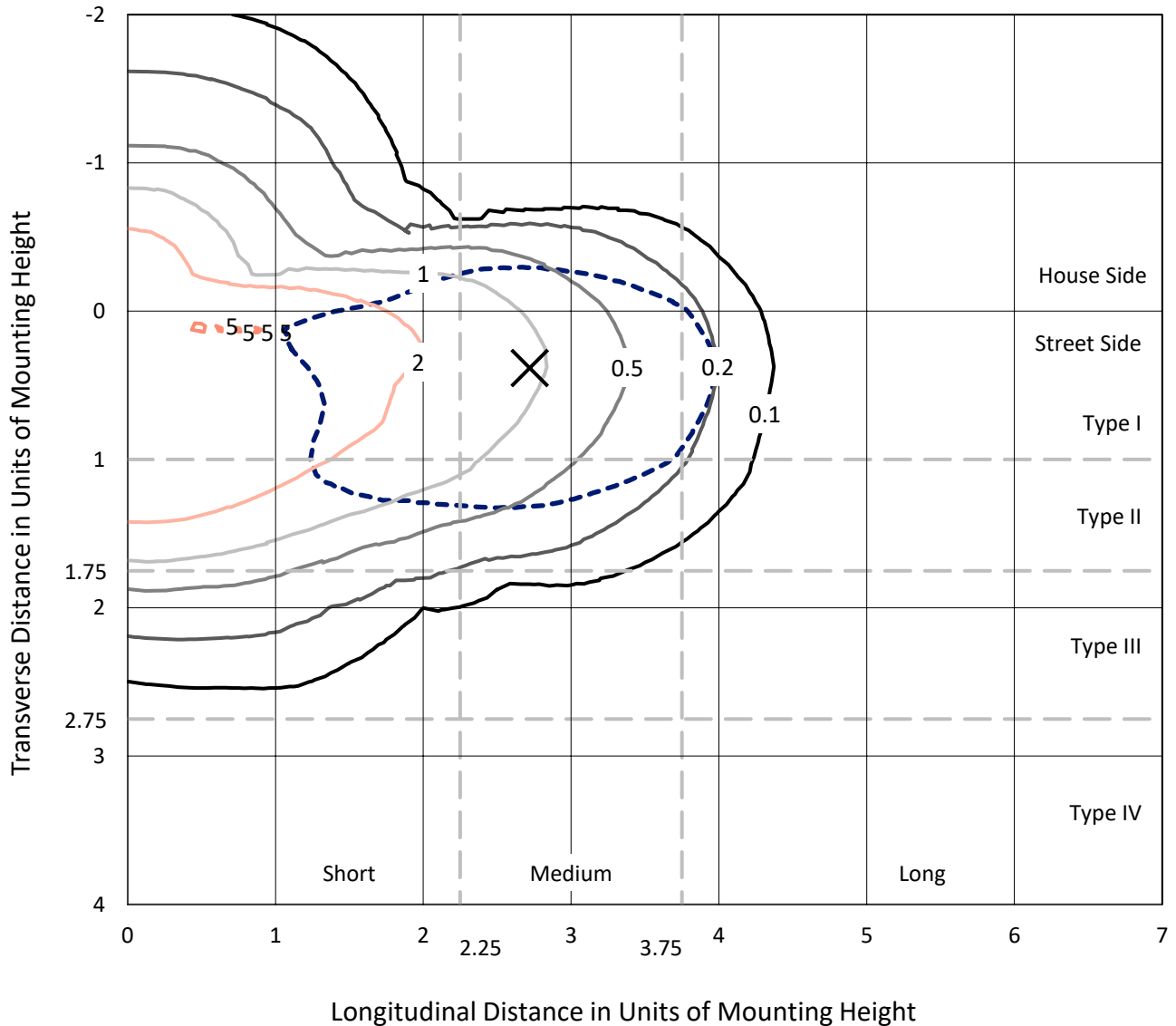
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

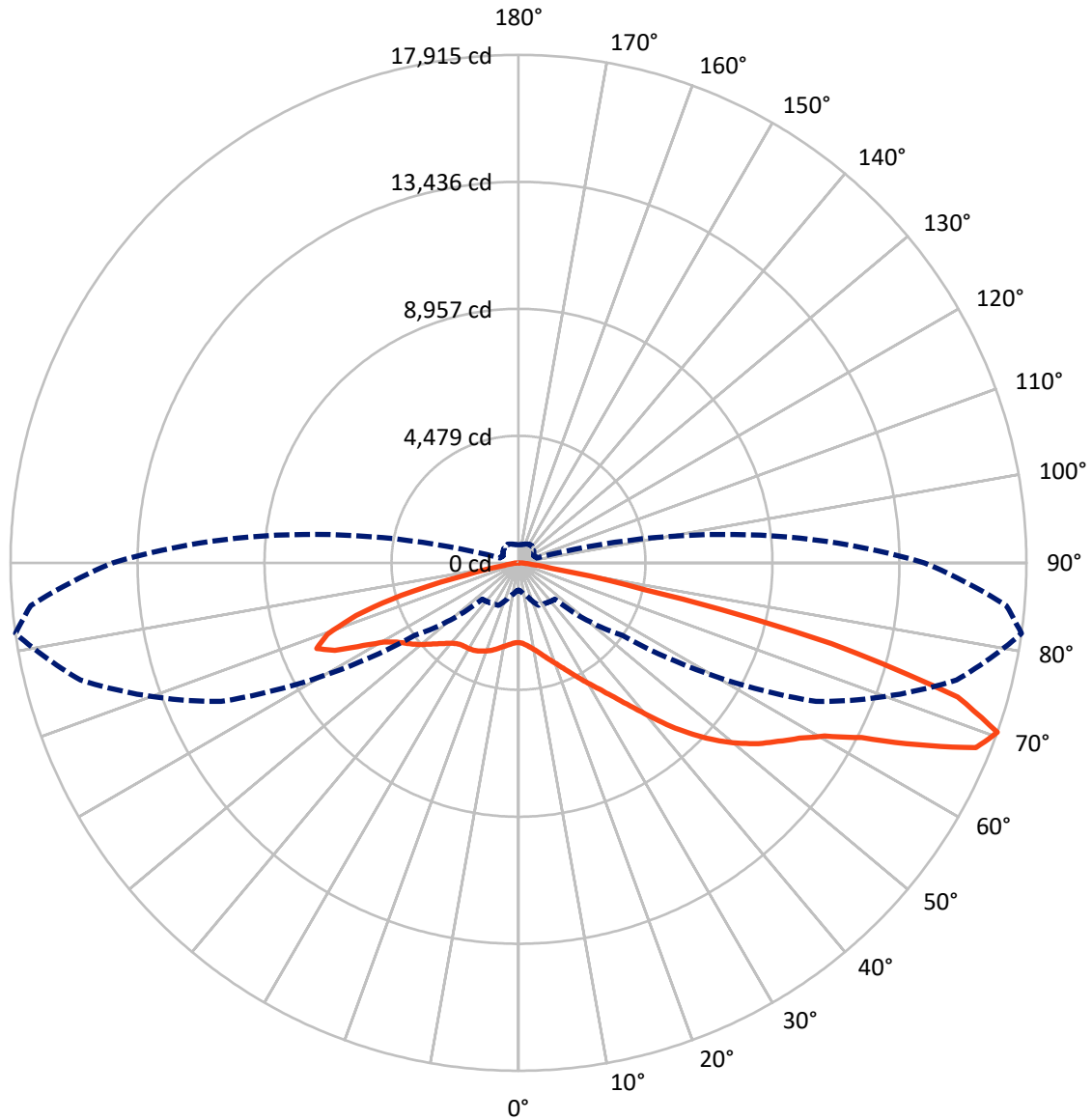
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4726.0 | 0.0 | 4726.0 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 14444.6 | 0.0 | 14444.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 19170.6 | 0.0 | 19170.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 265.4 | 1.4 |
| 10°-20° | 762.4 | 4.0 |
| 20°-30° | 1275.5 | 6.7 |
| 30°-40° | 1992.6 | 10.4 |
| 40°-50° | 3173.5 | 16.6 |
| 50°-60° | 4416.3 | 23.0 |
| 60°-70° | 4619.7 | 24.1 |
| 70°-80° | 2414.5 | 12.6 |
| 80°-90° | 250.7 | 1.3 |
| 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° | 19170.6 | 100.0 |
| 0°-180° | 19170.6 | 100.0 |

Coefficient of Utilization

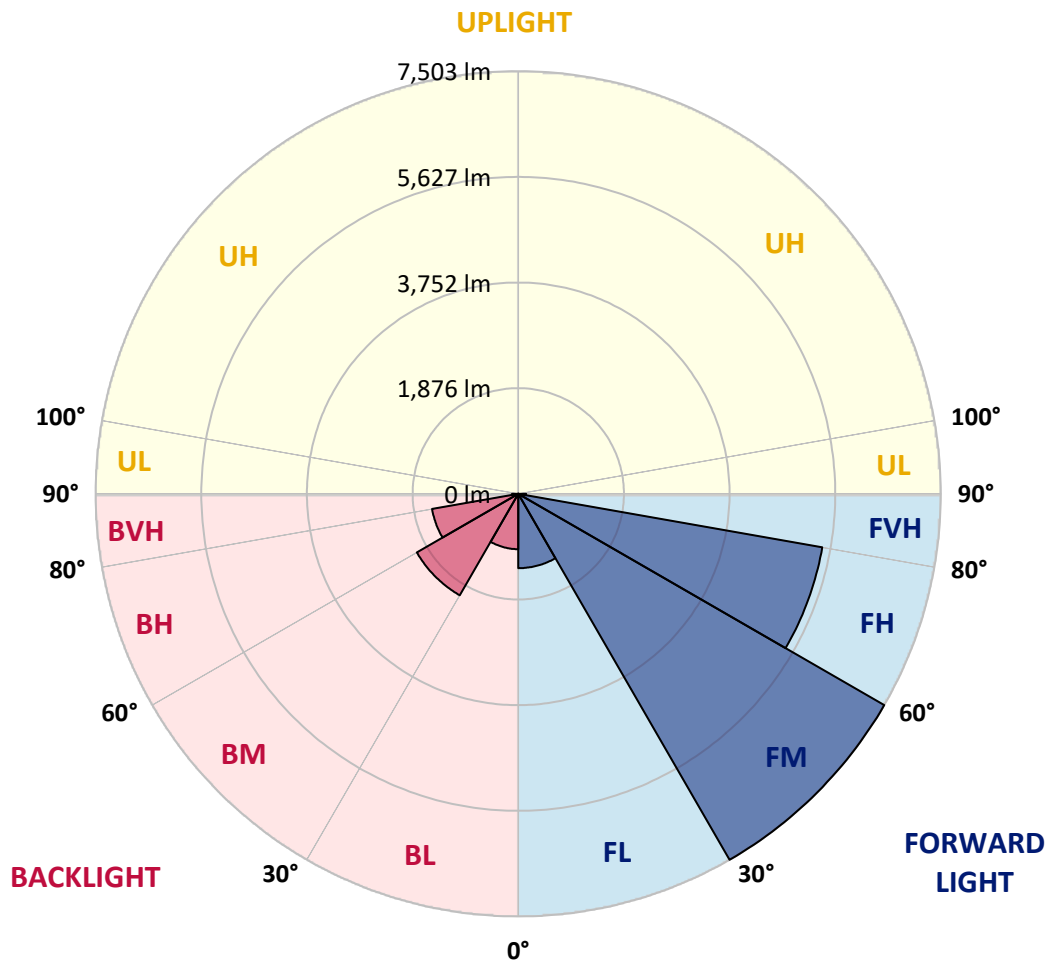


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1320.1 | 6.9 | | | |
| FM (30°-60°) | 7503.2 | 39.1 | | | |
| FH (60°-80°) | 5480.9 | 28.6 | | | G3/7500 |
| FVH (80°-90°) | 140.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 983.2 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 2079.3 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1553.2 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 110.4 | 0.6 | | | G2/225 |
| 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° | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 |
| 2.5° | 2877.8 | 2894.1 | 2889.0 | 2883.8 | 2883.8 | 2876.8 | 2875.7 | 2865.6 | 2857.4 | 2844.2 | 2841.2 |
| 5° | 2914.4 | 2931.7 | 2929.7 | 2933.8 | 2947.0 | 2950.1 | 2953.0 | 2947.0 | 2930.7 | 2914.4 | 2907.3 |
| 7.5° | 2881.9 | 2901.2 | 2907.3 | 2931.7 | 2972.4 | 3009.0 | 3036.5 | 3047.6 | 3032.4 | 3009.0 | 2997.8 |
| 10° | 2772.0 | 2793.3 | 2814.8 | 2872.7 | 2944.9 | 3031.4 | 3104.6 | 3148.4 | 3145.3 | 3123.0 | 3103.6 |
| 12.5° | 2549.2 | 2571.6 | 2617.3 | 2730.3 | 2862.5 | 3015.1 | 3151.5 | 3243.0 | 3274.5 | 3258.3 | 3224.6 |
| 15° | 2371.2 | 2390.5 | 2425.1 | 2541.1 | 2713.0 | 2944.9 | 3168.7 | 3346.7 | 3427.1 | 3418.0 | 3377.3 |
| 17.5° | 2366.1 | 2374.2 | 2395.6 | 2450.6 | 2582.8 | 2835.0 | 3150.4 | 3448.4 | 3602.1 | 3601.0 | 3550.2 |
| 20° | 2455.6 | 2458.7 | 2470.9 | 2482.0 | 2557.4 | 2751.6 | 3103.6 | 3532.9 | 3798.3 | 3798.3 | 3743.5 |
| 22.5° | 2579.7 | 2577.7 | 2589.9 | 2579.7 | 2616.3 | 2744.5 | 3074.1 | 3607.2 | 4017.1 | 4033.4 | 3964.2 |
| 25° | 2765.9 | 2755.7 | 2752.6 | 2729.3 | 2736.3 | 2810.7 | 3106.7 | 3691.5 | 4276.5 | 4310.0 | 4223.6 |
| 27.5° | 3014.1 | 2997.8 | 2986.6 | 2932.7 | 2914.4 | 2947.0 | 3206.4 | 3793.3 | 4565.3 | 4623.4 | 4513.5 |
| 30° | 3337.6 | 3308.1 | 3291.8 | 3198.2 | 3132.1 | 3137.2 | 3356.9 | 3928.6 | 4867.5 | 4961.1 | 4821.7 |
| 32.5° | 3779.1 | 3733.3 | 3689.6 | 3535.9 | 3414.9 | 3375.2 | 3551.2 | 4115.8 | 5195.1 | 5344.6 | 5165.6 |
| 35° | 4273.4 | 4236.8 | 4190.0 | 3953.0 | 3766.9 | 3675.3 | 3813.6 | 4377.2 | 5578.6 | 5815.5 | 5582.7 |
| 37.5° | 4749.5 | 4718.0 | 4740.3 | 4420.9 | 4180.9 | 4047.6 | 4157.5 | 4728.1 | 6051.6 | 6401.5 | 6105.5 |
| 40° | 5241.8 | 5217.5 | 5220.5 | 4915.3 | 4635.6 | 4486.0 | 4574.6 | 5168.7 | 6593.8 | 7098.3 | 6734.1 |
| 42.5° | 5776.9 | 5758.7 | 5697.6 | 5427.0 | 5112.7 | 4973.3 | 5054.7 | 5677.3 | 7175.6 | 7891.8 | 7423.9 |
| 45° | 6376.1 | 6364.9 | 6308.0 | 5997.7 | 5637.6 | 5480.9 | 5590.8 | 6238.8 | 7760.6 | 8638.4 | 8116.6 |
| 47.5° | 6893.8 | 6903.1 | 6895.9 | 6634.5 | 6261.1 | 6031.2 | 6162.5 | 6824.7 | 8304.8 | 9340.3 | 8780.9 |
| 50° | 7143.1 | 7190.9 | 7261.1 | 7179.7 | 6947.8 | 6713.9 | 6739.3 | 7390.2 | 8823.6 | 9998.5 | 9417.6 |
| 52.5° | 7012.8 | 7103.5 | 7294.6 | 7424.9 | 7514.4 | 7465.6 | 7397.4 | 7951.8 | 9311.8 | 10592.6 | 10019.9 |
| 55° | 6527.6 | 6654.8 | 6972.2 | 7286.5 | 7743.3 | 8098.3 | 8187.8 | 8574.3 | 9787.9 | 11115.4 | 10589.5 |
| 57.5° | 5643.6 | 5850.2 | 6135.0 | 6770.7 | 7539.8 | 8404.5 | 9109.4 | 9438.0 | 10292.4 | 11673.9 | 11185.6 |
| 60° | 4128.0 | 4404.6 | 4758.7 | 5704.7 | 6827.7 | 8240.7 | 9893.7 | 10764.4 | 11009.6 | 12397.2 | 11961.7 |
| 62.5° | 2641.7 | 2812.7 | 3138.2 | 4029.3 | 5320.2 | 7401.4 | 10133.8 | 12422.6 | 12225.3 | 13583.3 | 13125.5 |
| 65° | 1808.6 | 1918.5 | 2216.6 | 2717.1 | 3439.3 | 5509.4 | 9490.9 | 13665.7 | 14156.0 | 15463.1 | 15115.3 |
| 67.5° | 1314.3 | 1397.7 | 1652.0 | 2090.5 | 2241.0 | 3260.2 | 7364.8 | 13608.7 | 16032.7 | 17400.0 | 16858.8 |
| 70° | 958.3 | 1017.2 | 1230.8 | 1652.0 | 1724.3 | 1813.7 | 4461.6 | 11568.2 | 15992.0 | 17914.6 | 17266.7 |
| 72.5° | 710.0 | 750.7 | 894.1 | 1281.8 | 1395.6 | 1224.8 | 2208.5 | 8407.6 | 13742.0 | 16203.7 | 15683.8 |
| 75° | 513.7 | 544.3 | 650.1 | 980.6 | 1116.9 | 932.9 | 1101.7 | 4913.3 | 9585.5 | 11398.2 | 11489.7 |
| 77.5° | 392.7 | 416.0 | 485.2 | 718.2 | 894.1 | 699.9 | 683.6 | 2260.3 | 4545.1 | 4567.4 | 4823.8 |
| 80° | 315.4 | 330.6 | 368.3 | 505.5 | 685.6 | 523.9 | 445.6 | 912.5 | 1436.3 | 1215.6 | 1275.6 |
| 82.5° | 232.0 | 257.4 | 311.3 | 355.1 | 490.4 | 361.1 | 271.6 | 460.8 | 546.2 | 470.0 | 474.1 |
| 85° | 132.2 | 149.5 | 188.2 | 254.3 | 313.3 | 220.8 | 155.6 | 204.5 | 254.3 | 208.5 | 186.1 |
| 87.5° | 46.8 | 61.0 | 66.1 | 99.7 | 136.3 | 91.5 | 60.1 | 59.0 | 83.4 | 62.0 | 51.9 |
| 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° | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 | 2810.7 |
| 2.5° | 2830.9 | 2825.9 | 2805.5 | 2778.1 | 2749.6 | 2722.2 | 2713.0 | 2693.7 | 2680.5 | 2673.3 | 2681.5 |
| 5° | 2887.9 | 2871.6 | 2823.9 | 2762.8 | 2698.7 | 2629.5 | 2580.7 | 2536.0 | 2503.5 | 2472.9 | 2485.1 |
| 7.5° | 2969.3 | 2940.8 | 2858.4 | 2751.6 | 2637.7 | 2522.7 | 2437.3 | 2372.3 | 2328.5 | 2300.0 | 2306.0 |
| 10° | 3063.9 | 3020.2 | 2894.1 | 2734.4 | 2558.4 | 2393.6 | 2292.8 | 2237.0 | 2209.5 | 2194.2 | 2198.2 |
| 12.5° | 3172.8 | 3110.8 | 2930.7 | 2694.7 | 2437.3 | 2249.2 | 2180.0 | 2163.7 | 2164.7 | 2165.7 | 2167.8 |
| 15° | 3307.1 | 3220.5 | 2960.2 | 2608.2 | 2279.6 | 2138.3 | 2126.1 | 2152.5 | 2180.0 | 2193.2 | 2192.2 |
| 17.5° | 3458.7 | 3336.6 | 2965.2 | 2465.8 | 2125.0 | 2067.0 | 2105.7 | 2162.6 | 2204.4 | 2222.7 | 2226.7 |
| 20° | 3621.4 | 3454.6 | 2928.6 | 2264.4 | 1997.8 | 2009.1 | 2078.2 | 2151.5 | 2197.3 | 2220.7 | 2226.7 |
| 22.5° | 3807.6 | 3580.7 | 2841.2 | 2052.8 | 1894.1 | 1946.0 | 2027.3 | 2098.6 | 2146.4 | 2169.8 | 2175.9 |
| 25° | 4020.2 | 3722.1 | 2703.8 | 1874.8 | 1804.6 | 1874.8 | 1956.1 | 2015.2 | 2053.8 | 2075.2 | 2081.3 |
| 27.5° | 4256.1 | 3869.6 | 2520.8 | 1733.4 | 1726.3 | 1801.5 | 1868.7 | 1914.5 | 1934.8 | 1951.1 | 1957.1 |
| 30° | 4493.2 | 4003.9 | 2299.0 | 1626.6 | 1658.1 | 1729.3 | 1777.1 | 1797.4 | 1803.6 | 1806.7 | 1813.7 |
| 32.5° | 4749.5 | 4119.9 | 2066.0 | 1538.1 | 1593.1 | 1659.2 | 1687.6 | 1696.8 | 1668.3 | 1648.9 | 1655.1 |
| 35° | 5059.8 | 4243.9 | 1838.1 | 1467.9 | 1528.9 | 1585.9 | 1595.0 | 1586.9 | 1553.3 | 1513.6 | 1515.7 |
| 37.5° | 5443.3 | 4398.6 | 1656.1 | 1418.1 | 1468.9 | 1506.5 | 1495.4 | 1493.3 | 1496.4 | 1449.6 | 1452.6 |
| 40° | 5913.2 | 4600.0 | 1522.8 | 1379.3 | 1420.0 | 1428.2 | 1396.7 | 1414.0 | 1429.3 | 1358.0 | 1360.1 |
| 42.5° | 6435.1 | 4843.1 | 1438.4 | 1352.9 | 1379.3 | 1360.1 | 1311.2 | 1330.6 | 1328.5 | 1234.9 | 1233.9 |
| 45° | 6967.1 | 5107.6 | 1408.9 | 1333.6 | 1341.7 | 1303.1 | 1249.2 | 1254.3 | 1211.6 | 1127.1 | 1130.2 |
| 47.5° | 7496.0 | 5391.4 | 1427.2 | 1317.3 | 1295.0 | 1251.2 | 1209.5 | 1187.2 | 1124.0 | 1061.0 | 1061.0 |
| 50° | 8014.9 | 5689.5 | 1494.3 | 1284.7 | 1230.8 | 1205.4 | 1175.0 | 1135.3 | 1068.2 | 1014.2 | 1010.1 |
| 52.5° | 8496.0 | 5989.5 | 1569.6 | 1230.8 | 1150.5 | 1165.7 | 1146.5 | 1100.6 | 1034.5 | 979.6 | 980.6 |
| 55° | 8951.7 | 6289.6 | 1599.1 | 1156.6 | 1075.2 | 1131.2 | 1120.0 | 1035.6 | 956.2 | 911.4 | 907.4 |
| 57.5° | 9448.1 | 6650.7 | 1566.5 | 1062.0 | 1014.2 | 1091.5 | 1048.8 | 955.2 | 909.4 | 875.9 | 872.8 |
| 60° | 10135.8 | 7217.3 | 1496.4 | 945.0 | 956.2 | 1032.5 | 959.3 | 920.7 | 870.7 | 833.1 | 831.1 |
| 62.5° | 11278.2 | 8274.3 | 1383.4 | 829.0 | 888.1 | 945.0 | 916.6 | 877.9 | 827.0 | 790.4 | 790.4 |
| 65° | 12966.8 | 9743.1 | 1170.9 | 738.5 | 811.8 | 859.6 | 870.7 | 832.1 | 779.2 | 740.6 | 742.6 |
| 67.5° | 14391.0 | 10664.8 | 886.0 | 663.3 | 733.4 | 790.4 | 821.9 | 784.3 | 728.4 | 690.7 | 691.8 |
| 70° | 14312.6 | 9995.5 | 676.5 | 589.0 | 664.3 | 722.2 | 762.9 | 733.4 | 673.4 | 637.9 | 640.8 |
| 72.5° | 12712.5 | 8361.7 | 547.2 | 513.7 | 594.1 | 651.1 | 699.9 | 677.5 | 616.4 | 581.9 | 581.9 |
| 75° | 9339.3 | 5935.6 | 437.4 | 437.4 | 506.6 | 576.8 | 630.7 | 616.4 | 560.5 | 536.1 | 529.0 |
| 77.5° | 3936.7 | 2490.2 | 342.9 | 363.2 | 421.2 | 495.4 | 562.5 | 567.6 | 518.8 | 549.3 | 498.5 |
| 80° | 1046.7 | 686.6 | 261.5 | 285.9 | 330.6 | 409.0 | 489.3 | 487.3 | 434.4 | 405.9 | 377.4 |
| 82.5° | 398.7 | 270.6 | 186.1 | 201.4 | 239.0 | 313.3 | 387.6 | 399.7 | 346.9 | 300.1 | 300.1 |
| 85° | 153.6 | 115.9 | 114.9 | 121.1 | 139.4 | 207.6 | 292.9 | 303.1 | 261.5 | 221.8 | 228.9 |
| 87.5° | 39.7 | 34.5 | 42.7 | 40.7 | 64.1 | 110.9 | 167.9 | 173.9 | 159.7 | 92.6 | 132.2 |
| 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)