

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: P969780

Luminaire Tested: **NAV-SB6A-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969780
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: LUMARK
Catalog Number: NAV-SB6A-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25625 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

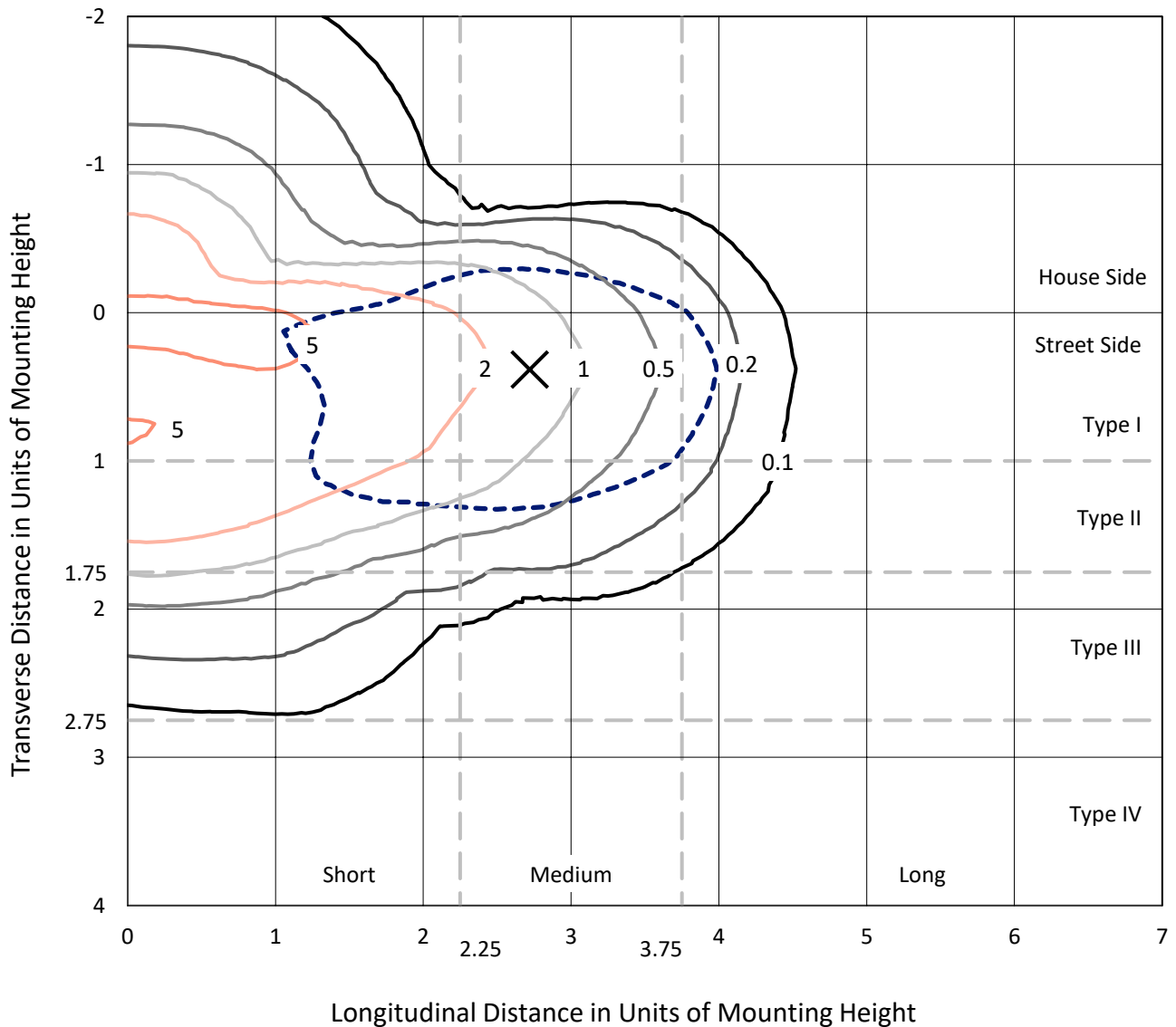
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

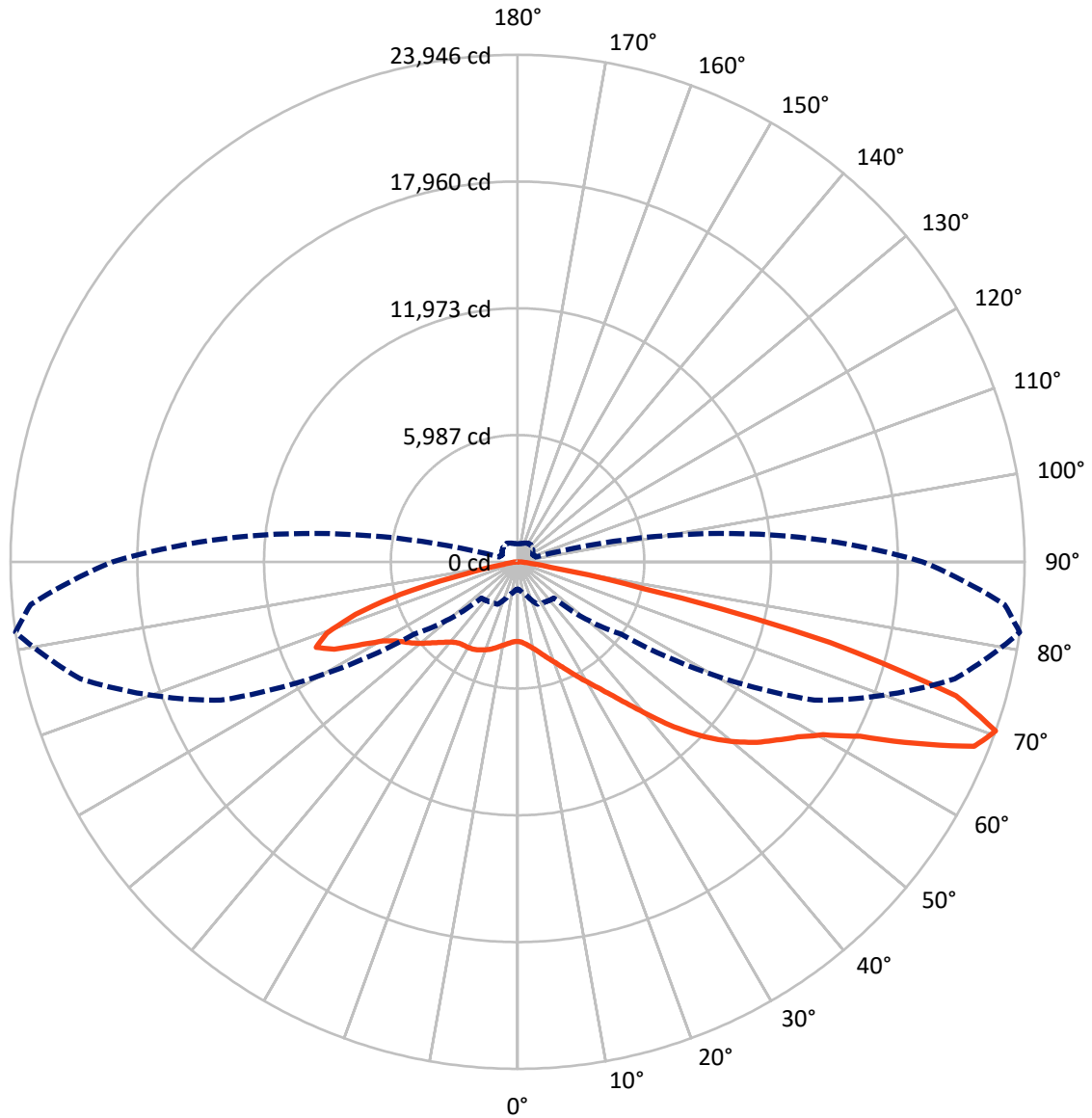
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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 | 6317.2 | 0.0 | 6317.2 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 19307.8 | 0.0 | 19307.8 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 25625.0 | 0.0 | 25625.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 354.7 | 1.4 |
| 10°-20° | 1019.1 | 4.0 |
| 20°-30° | 1704.9 | 6.7 |
| 30°-40° | 2663.5 | 10.4 |
| 40°-50° | 4242.0 | 16.6 |
| 50°-60° | 5903.2 | 23.0 |
| 60°-70° | 6175.0 | 24.1 |
| 70°-80° | 3227.4 | 12.6 |
| 80°-90° | 335.1 | 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° | 25625.0 | 100.0 |
| 0°-180° | 25625.0 | 100.0 |

Coefficient of Utilization

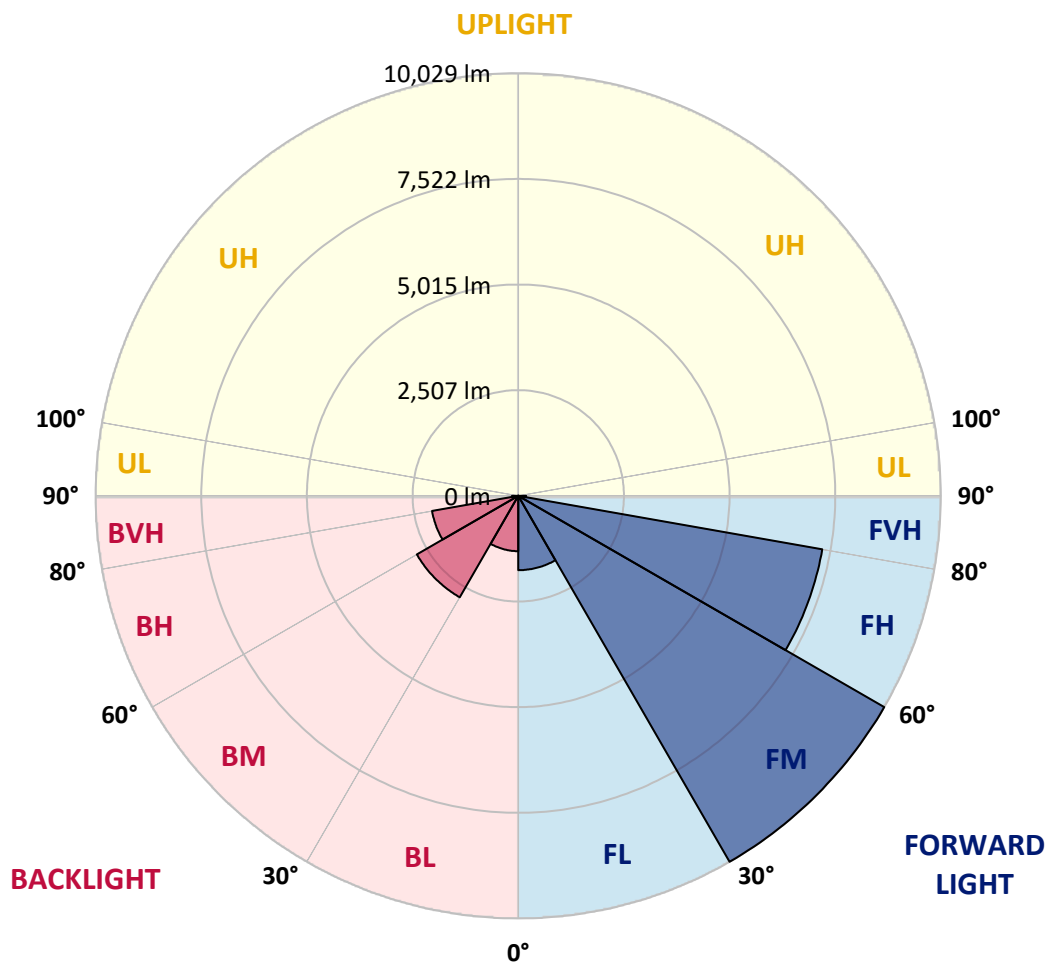


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1764.6 | 6.9 | | | |
| FM (30°-60°) | 10029.4 | 39.1 | | | |
| FH (60°-80°) | 7326.3 | 28.6 | | | G3/7500 |
| FVH (80°-90°) | 187.6 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1314.2 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2779.3 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2076.2 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.5 | 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° | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 |
| 2.5° | 3846.7 | 3868.5 | 3861.7 | 3854.8 | 3854.8 | 3845.3 | 3844.0 | 3830.3 | 3819.5 | 3801.8 | 3797.7 |
| 5° | 3895.6 | 3918.8 | 3916.0 | 3921.4 | 3939.2 | 3943.3 | 3947.3 | 3939.2 | 3917.3 | 3895.6 | 3886.1 |
| 7.5° | 3852.2 | 3878.0 | 3886.1 | 3918.8 | 3973.1 | 4022.1 | 4058.8 | 4073.8 | 4053.4 | 4022.1 | 4007.1 |
| 10° | 3705.3 | 3733.9 | 3762.4 | 3839.9 | 3936.4 | 4052.0 | 4149.9 | 4208.3 | 4204.3 | 4174.4 | 4148.6 |
| 12.5° | 3407.5 | 3437.4 | 3498.6 | 3649.5 | 3826.3 | 4030.3 | 4212.4 | 4334.8 | 4377.0 | 4355.2 | 4310.3 |
| 15° | 3169.5 | 3195.3 | 3241.6 | 3396.6 | 3626.4 | 3936.4 | 4235.6 | 4473.5 | 4580.9 | 4568.7 | 4514.3 |
| 17.5° | 3162.7 | 3173.6 | 3202.2 | 3275.6 | 3452.4 | 3789.6 | 4211.1 | 4609.5 | 4814.8 | 4813.5 | 4745.4 |
| 20° | 3282.4 | 3286.5 | 3302.8 | 3317.7 | 3418.4 | 3678.1 | 4148.6 | 4722.4 | 5077.2 | 5077.2 | 5003.8 |
| 22.5° | 3448.3 | 3445.5 | 3461.8 | 3448.3 | 3497.2 | 3668.6 | 4109.1 | 4821.6 | 5369.6 | 5391.3 | 5298.8 |
| 25° | 3697.1 | 3683.5 | 3679.4 | 3648.2 | 3657.7 | 3756.9 | 4152.6 | 4934.5 | 5716.3 | 5761.2 | 5645.6 |
| 27.5° | 4028.9 | 4007.1 | 3992.2 | 3920.1 | 3895.6 | 3939.2 | 4285.8 | 5070.5 | 6102.4 | 6180.0 | 6033.2 |
| 30° | 4461.3 | 4421.8 | 4400.1 | 4275.0 | 4186.6 | 4193.4 | 4487.1 | 5251.3 | 6506.3 | 6631.4 | 6445.1 |
| 32.5° | 5051.4 | 4990.2 | 4931.8 | 4726.5 | 4564.6 | 4511.6 | 4746.9 | 5501.5 | 6944.2 | 7144.0 | 6904.7 |
| 35° | 5712.2 | 5663.3 | 5600.7 | 5284.0 | 5035.1 | 4912.7 | 5097.6 | 5850.9 | 7456.8 | 7773.6 | 7462.2 |
| 37.5° | 6348.6 | 6306.4 | 6336.3 | 5909.4 | 5588.5 | 5410.4 | 5557.2 | 6320.0 | 8089.1 | 8556.8 | 8161.2 |
| 40° | 7006.7 | 6974.1 | 6978.2 | 6570.2 | 6196.3 | 5996.5 | 6114.7 | 6908.8 | 8813.8 | 9488.2 | 9001.4 |
| 42.5° | 7721.9 | 7697.4 | 7615.9 | 7254.2 | 6834.0 | 6647.7 | 6756.5 | 7588.7 | 9591.5 | 10548.8 | 9923.3 |
| 45° | 8522.8 | 8507.8 | 8431.8 | 8017.0 | 7535.7 | 7326.3 | 7473.1 | 8339.3 | 10373.4 | 11546.8 | 10849.3 |
| 47.5° | 9215.0 | 9227.2 | 9217.6 | 8868.2 | 8369.1 | 8061.8 | 8237.3 | 9122.5 | 11100.9 | 12485.1 | 11737.3 |
| 50° | 9548.1 | 9611.9 | 9705.8 | 9597.0 | 9287.0 | 8974.3 | 9008.2 | 9878.4 | 11794.4 | 13364.9 | 12588.4 |
| 52.5° | 9374.0 | 9495.0 | 9750.6 | 9924.7 | 10044.4 | 9979.1 | 9888.0 | 10629.0 | 12447.0 | 14158.9 | 13393.4 |
| 55° | 8725.4 | 8895.4 | 9319.6 | 9739.8 | 10350.3 | 10824.8 | 10944.5 | 11461.2 | 13083.4 | 14857.8 | 14154.8 |
| 57.5° | 7543.8 | 7819.8 | 8200.5 | 9050.3 | 10078.3 | 11234.1 | 12176.4 | 12615.6 | 13757.8 | 15604.3 | 14951.7 |
| 60° | 5517.8 | 5887.6 | 6360.8 | 7625.4 | 9126.5 | 11015.2 | 13224.8 | 14388.7 | 14716.4 | 16571.1 | 15989.1 |
| 62.5° | 3531.2 | 3759.7 | 4194.8 | 5385.9 | 7111.4 | 9893.4 | 13545.7 | 16605.1 | 16341.3 | 18156.5 | 17544.6 |
| 65° | 2417.6 | 2564.4 | 2962.9 | 3631.9 | 4597.2 | 7364.3 | 12686.3 | 18266.6 | 18922.0 | 20669.3 | 20204.3 |
| 67.5° | 1756.7 | 1868.3 | 2208.2 | 2794.3 | 2995.5 | 4358.0 | 9844.5 | 18190.6 | 21430.8 | 23258.3 | 22534.8 |
| 70° | 1280.8 | 1359.8 | 1645.2 | 2208.2 | 2304.7 | 2424.4 | 5963.8 | 15462.9 | 21376.4 | 23946.3 | 23080.1 |
| 72.5° | 949.0 | 1003.5 | 1195.3 | 1713.3 | 1865.6 | 1637.1 | 2952.0 | 11238.2 | 18368.6 | 21659.2 | 20964.4 |
| 75° | 686.6 | 727.4 | 868.9 | 1310.8 | 1493.0 | 1246.9 | 1472.6 | 6567.5 | 12812.8 | 15235.8 | 15358.2 |
| 77.5° | 524.9 | 556.2 | 648.6 | 960.0 | 1195.3 | 935.5 | 913.8 | 3021.3 | 6075.3 | 6105.2 | 6447.9 |
| 80° | 421.5 | 441.9 | 492.2 | 675.8 | 916.5 | 700.3 | 595.5 | 1219.6 | 1919.9 | 1624.9 | 1705.1 |
| 82.5° | 310.1 | 344.0 | 416.0 | 474.6 | 655.4 | 482.7 | 363.1 | 615.9 | 730.2 | 628.2 | 633.7 |
| 85° | 176.8 | 199.9 | 251.5 | 339.9 | 418.8 | 295.1 | 208.1 | 273.3 | 339.9 | 278.7 | 248.9 |
| 87.5° | 62.5 | 81.6 | 88.4 | 133.2 | 182.2 | 122.4 | 80.3 | 78.8 | 111.5 | 82.9 | 69.4 |
| 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° | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 | 3756.9 |
| 2.5° | 3784.1 | 3777.3 | 3750.2 | 3713.5 | 3675.3 | 3638.6 | 3626.4 | 3600.6 | 3582.9 | 3573.4 | 3584.2 |
| 5° | 3860.3 | 3838.5 | 3774.7 | 3693.1 | 3607.4 | 3514.9 | 3449.6 | 3389.8 | 3346.3 | 3305.5 | 3321.8 |
| 7.5° | 3969.1 | 3931.0 | 3820.9 | 3678.1 | 3525.8 | 3372.1 | 3258.0 | 3170.9 | 3112.4 | 3074.4 | 3082.5 |
| 10° | 4095.5 | 4037.1 | 3868.5 | 3654.9 | 3419.7 | 3199.4 | 3064.9 | 2990.0 | 2953.3 | 2932.9 | 2938.4 |
| 12.5° | 4241.0 | 4158.1 | 3917.3 | 3602.0 | 3258.0 | 3006.3 | 2913.9 | 2892.1 | 2893.5 | 2894.9 | 2897.6 |
| 15° | 4420.5 | 4304.9 | 3956.8 | 3486.3 | 3047.1 | 2858.1 | 2841.8 | 2877.2 | 2913.9 | 2931.6 | 2930.3 |
| 17.5° | 4623.1 | 4459.9 | 3963.7 | 3296.0 | 2840.5 | 2763.0 | 2814.6 | 2890.8 | 2946.6 | 2971.1 | 2976.5 |
| 20° | 4840.7 | 4617.6 | 3914.7 | 3026.7 | 2670.5 | 2685.5 | 2778.0 | 2875.8 | 2937.0 | 2968.3 | 2976.5 |
| 22.5° | 5089.5 | 4786.2 | 3797.7 | 2743.9 | 2531.9 | 2601.1 | 2710.0 | 2805.1 | 2869.1 | 2900.3 | 2908.4 |
| 25° | 5373.7 | 4975.2 | 3614.2 | 2506.0 | 2412.1 | 2506.0 | 2614.8 | 2693.6 | 2745.3 | 2773.9 | 2782.1 |
| 27.5° | 5689.2 | 5172.5 | 3369.4 | 2317.0 | 2307.5 | 2408.1 | 2497.8 | 2559.0 | 2586.2 | 2608.0 | 2616.1 |
| 30° | 6006.0 | 5351.9 | 3073.0 | 2174.2 | 2216.4 | 2311.6 | 2375.4 | 2402.6 | 2410.8 | 2414.9 | 2424.4 |
| 32.5° | 6348.6 | 5506.9 | 2761.7 | 2055.9 | 2129.3 | 2217.7 | 2255.8 | 2268.0 | 2230.0 | 2204.2 | 2212.3 |
| 35° | 6763.4 | 5672.8 | 2457.0 | 1962.1 | 2043.6 | 2119.8 | 2132.1 | 2121.1 | 2076.3 | 2023.2 | 2026.0 |
| 37.5° | 7276.0 | 5879.5 | 2213.7 | 1895.4 | 1963.5 | 2013.8 | 1998.9 | 1996.1 | 2000.2 | 1937.7 | 1941.7 |
| 40° | 7904.2 | 6148.7 | 2035.5 | 1843.8 | 1898.2 | 1909.1 | 1866.9 | 1890.0 | 1910.4 | 1815.3 | 1817.9 |
| 42.5° | 8601.7 | 6473.7 | 1922.7 | 1808.4 | 1843.8 | 1817.9 | 1752.6 | 1778.6 | 1775.8 | 1650.8 | 1649.3 |
| 45° | 9312.8 | 6827.2 | 1883.2 | 1782.6 | 1793.4 | 1741.8 | 1669.7 | 1676.6 | 1619.4 | 1506.5 | 1510.6 |
| 47.5° | 10019.9 | 7206.6 | 1907.7 | 1760.8 | 1730.9 | 1672.5 | 1616.7 | 1586.8 | 1502.5 | 1418.2 | 1418.2 |
| 50° | 10713.3 | 7605.0 | 1997.4 | 1717.4 | 1645.2 | 1611.3 | 1570.5 | 1517.5 | 1427.7 | 1355.7 | 1350.2 |
| 52.5° | 11356.5 | 8006.1 | 2098.1 | 1645.2 | 1537.9 | 1558.2 | 1532.4 | 1471.2 | 1382.8 | 1309.4 | 1310.8 |
| 55° | 11965.6 | 8407.3 | 2137.5 | 1546.0 | 1437.3 | 1512.0 | 1497.1 | 1384.2 | 1278.2 | 1218.3 | 1212.9 |
| 57.5° | 12629.2 | 8889.9 | 2094.0 | 1419.5 | 1355.7 | 1459.0 | 1401.9 | 1276.7 | 1215.6 | 1170.8 | 1166.7 |
| 60° | 13548.3 | 9647.3 | 2000.2 | 1263.2 | 1278.2 | 1380.2 | 1282.3 | 1230.5 | 1163.9 | 1113.7 | 1110.9 |
| 62.5° | 15075.4 | 11060.1 | 1849.2 | 1108.2 | 1187.1 | 1263.2 | 1225.1 | 1173.4 | 1105.5 | 1056.5 | 1056.5 |
| 65° | 17332.5 | 13023.5 | 1565.1 | 987.2 | 1085.1 | 1149.0 | 1163.9 | 1112.2 | 1041.6 | 989.8 | 992.6 |
| 67.5° | 19236.2 | 14255.5 | 1184.3 | 886.5 | 980.4 | 1056.5 | 1098.7 | 1048.4 | 973.5 | 923.2 | 924.7 |
| 70° | 19131.4 | 13360.8 | 904.3 | 787.3 | 888.0 | 965.4 | 1019.8 | 980.4 | 900.2 | 852.6 | 856.6 |
| 72.5° | 16992.6 | 11177.0 | 731.5 | 686.6 | 794.1 | 870.2 | 935.5 | 905.6 | 824.0 | 777.8 | 777.8 |
| 75° | 12483.7 | 7934.0 | 584.7 | 584.7 | 677.1 | 771.0 | 843.1 | 824.0 | 749.2 | 716.6 | 707.0 |
| 77.5° | 5262.1 | 3328.6 | 458.3 | 485.4 | 562.9 | 662.2 | 751.9 | 758.7 | 693.5 | 734.2 | 666.2 |
| 80° | 1399.1 | 917.8 | 349.4 | 382.1 | 441.9 | 546.6 | 654.1 | 651.3 | 580.6 | 542.5 | 504.5 |
| 82.5° | 533.0 | 361.7 | 248.9 | 269.3 | 319.5 | 418.8 | 518.0 | 534.3 | 463.7 | 401.1 | 401.1 |
| 85° | 205.3 | 155.0 | 153.6 | 161.8 | 186.2 | 277.4 | 391.7 | 405.2 | 349.4 | 296.4 | 306.0 |
| 87.5° | 53.0 | 46.2 | 57.1 | 54.4 | 85.7 | 148.2 | 224.4 | 232.5 | 213.5 | 123.7 | 176.8 |
| 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)