

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: P148057

Luminaire Tested: **AVM-F04-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148057
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-F04-LED-E-U-5WQ-7060
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10787.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

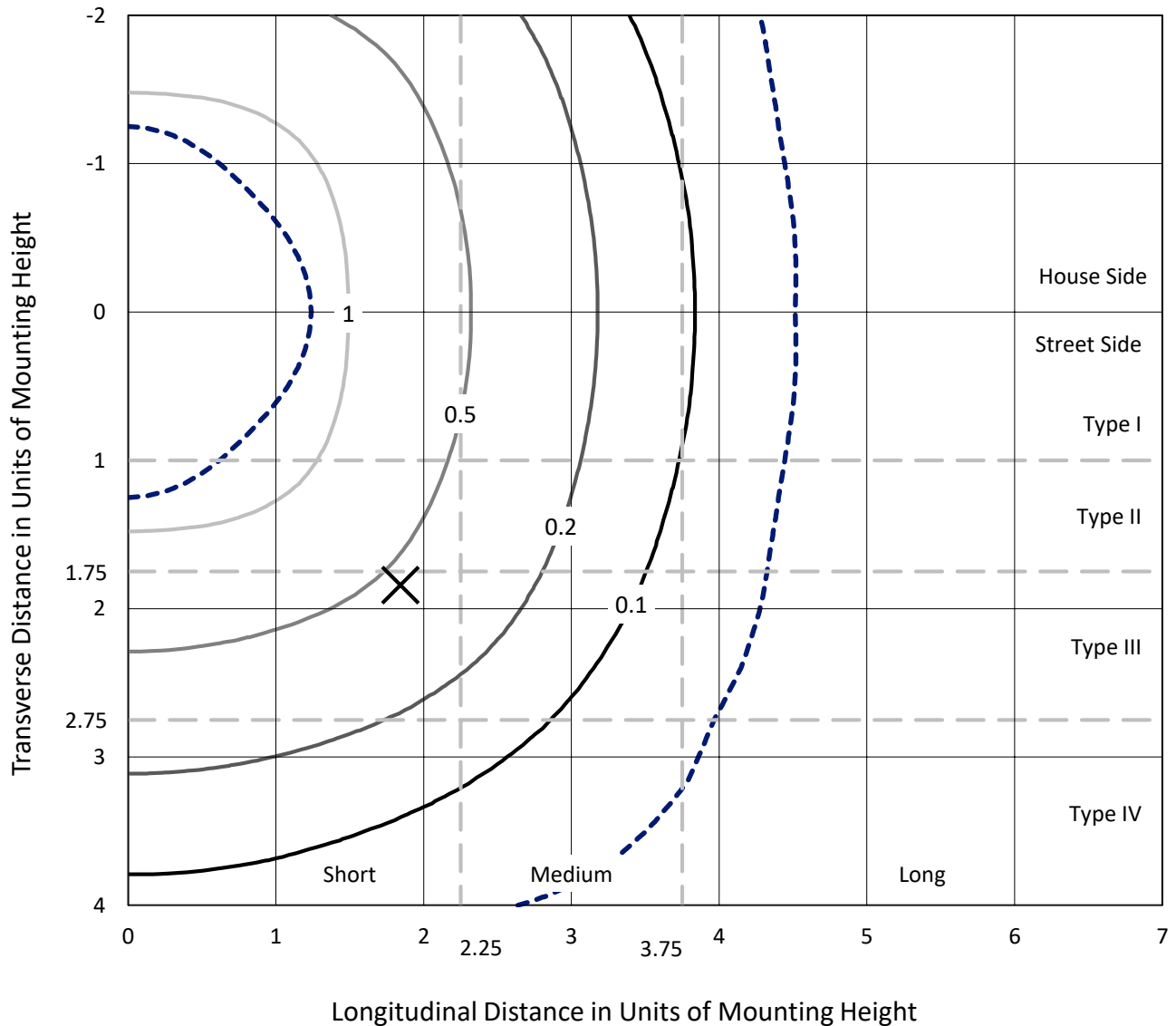
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

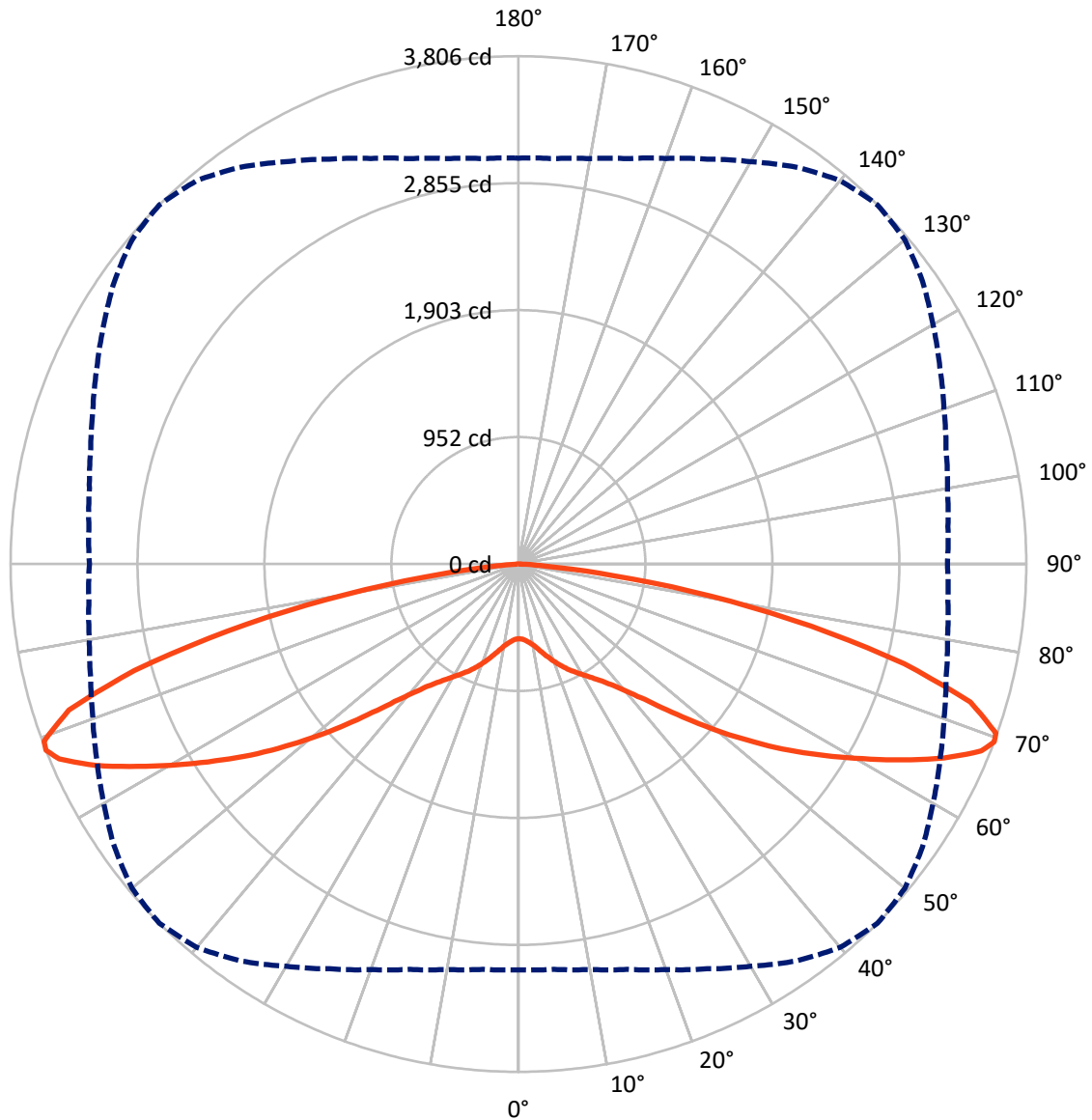


Based on 20 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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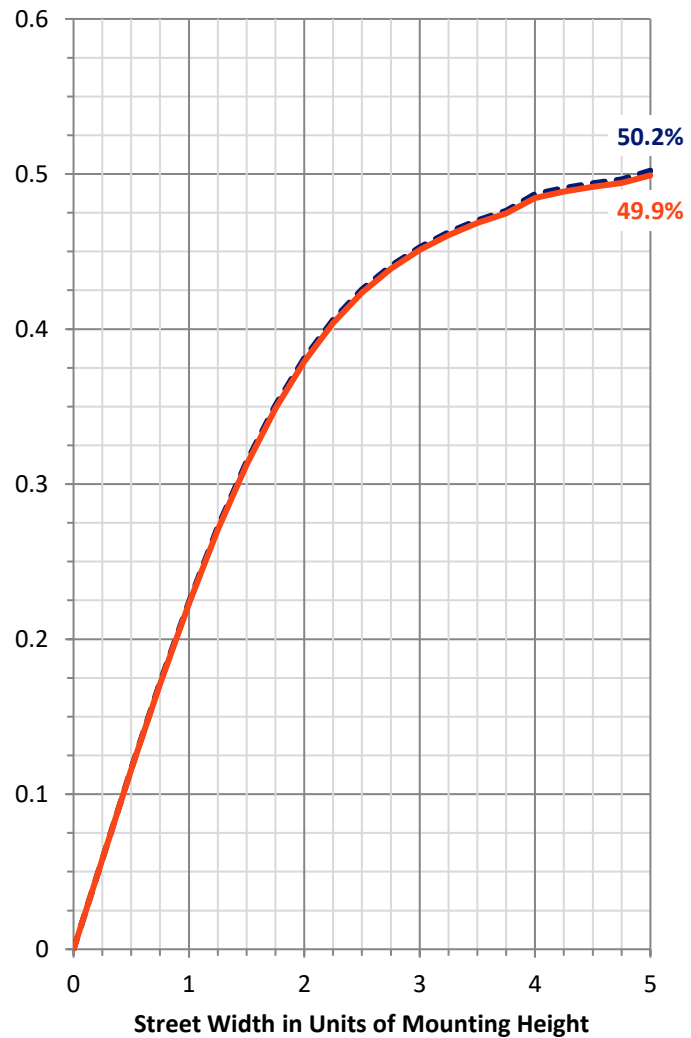
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5393.8 | 0.0 | 5393.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5393.8 | 0.0 | 5393.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10787.7 | 0.0 | 10787.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 56.3 | 0.5 |
| 10°-20° | 198.6 | 1.8 |
| 20°-30° | 402.2 | 3.7 |
| 30°-40° | 674.3 | 6.3 |
| 40°-50° | 1189.5 | 11.0 |
| 50°-60° | 2097.6 | 19.4 |
| 60°-70° | 3202.4 | 29.7 |
| 70°-80° | 2676.0 | 24.8 |
| 80°-90° | 290.8 | 2.7 |
| 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° | 10787.7 | 100.0 |
| 0°-180° | 10787.7 | 100.0 |



--- HS — SS

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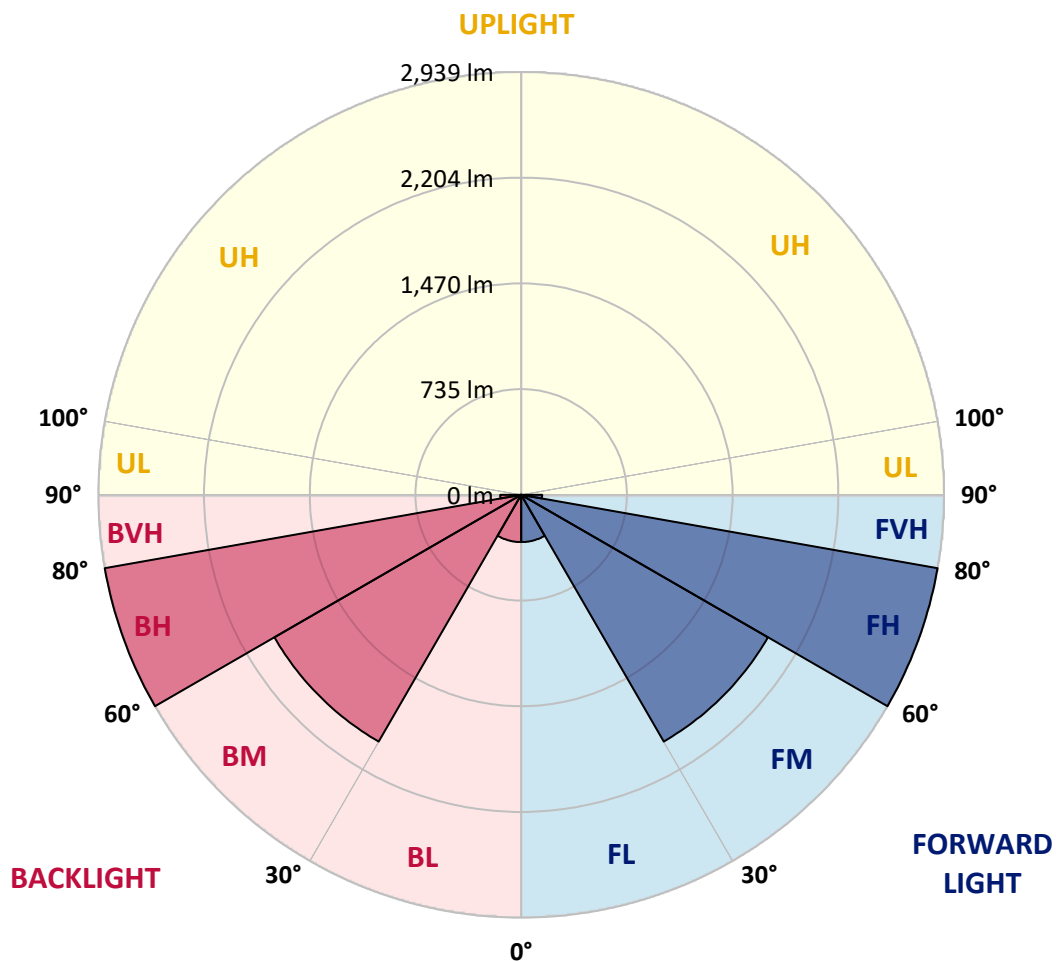
CATALOG NUMBER: AVM-F04-LED-E-U-5WQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 328.6 | 3.0 | | | |
| FM | (30°-60°) | 1980.7 | 18.4 | | | |
| FH | (60°-80°) | 2939.2 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 145.4 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 328.6 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 1980.7 | 18.4 | B2/2500 | | |
| BH | (60°-80°) | 2939.2 | 27.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 145.4 | 1.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 |
| 2.5° | 564.7 | 565.8 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 563.6 | 563.6 | 563.6 | 564.7 |
| 5° | 576.0 | 577.1 | 576.0 | 577.1 | 577.1 | 577.1 | 577.1 | 576.0 | 576.0 | 576.0 | 576.0 |
| 7.5° | 594.1 | 594.1 | 594.1 | 595.2 | 594.1 | 594.1 | 595.2 | 594.1 | 594.1 | 594.1 | 594.1 |
| 10° | 620.1 | 618.9 | 618.9 | 618.9 | 618.9 | 618.9 | 620.1 | 620.1 | 620.1 | 618.9 | 618.9 |
| 12.5° | 651.7 | 650.6 | 651.7 | 651.7 | 652.8 | 652.8 | 652.8 | 652.8 | 652.8 | 652.8 | 651.7 |
| 15° | 690.1 | 690.1 | 690.1 | 691.2 | 693.5 | 693.5 | 692.3 | 693.5 | 693.5 | 693.5 | 693.5 |
| 17.5° | 733.0 | 735.3 | 733.0 | 734.1 | 735.3 | 734.1 | 736.4 | 737.5 | 738.6 | 737.5 | 734.1 |
| 20° | 777.1 | 778.2 | 778.2 | 778.2 | 778.2 | 780.4 | 781.6 | 781.6 | 785.0 | 783.8 | 782.7 |
| 22.5° | 818.8 | 821.1 | 821.1 | 822.2 | 822.2 | 825.6 | 825.6 | 825.6 | 827.9 | 830.1 | 827.9 |
| 25° | 862.9 | 861.8 | 861.8 | 864.0 | 865.1 | 869.7 | 869.7 | 871.9 | 875.3 | 876.4 | 874.2 |
| 27.5° | 902.4 | 901.3 | 901.3 | 904.7 | 905.8 | 911.5 | 911.5 | 916.0 | 918.2 | 919.4 | 917.1 |
| 30° | 944.2 | 944.2 | 943.1 | 946.5 | 949.9 | 954.4 | 956.6 | 961.1 | 964.5 | 965.7 | 963.4 |
| 32.5° | 993.9 | 991.6 | 992.8 | 995.0 | 997.3 | 1001.8 | 1005.2 | 1010.8 | 1015.4 | 1016.5 | 1014.2 |
| 35° | 1050.4 | 1047.0 | 1048.1 | 1050.4 | 1053.8 | 1060.5 | 1066.2 | 1069.6 | 1076.4 | 1078.6 | 1074.1 |
| 37.5° | 1112.5 | 1113.6 | 1112.5 | 1118.1 | 1123.8 | 1131.7 | 1138.5 | 1143.0 | 1149.8 | 1153.2 | 1149.8 |
| 40° | 1200.6 | 1197.2 | 1200.6 | 1206.2 | 1215.3 | 1225.4 | 1239.0 | 1242.4 | 1249.2 | 1255.9 | 1248.0 |
| 42.5° | 1314.7 | 1312.4 | 1320.3 | 1324.8 | 1335.0 | 1346.3 | 1363.2 | 1372.3 | 1382.4 | 1386.9 | 1380.2 |
| 45° | 1463.7 | 1463.7 | 1472.8 | 1473.9 | 1489.7 | 1504.4 | 1528.1 | 1539.4 | 1558.6 | 1558.6 | 1558.6 |
| 47.5° | 1628.6 | 1635.4 | 1641.1 | 1652.4 | 1663.7 | 1690.8 | 1714.5 | 1739.3 | 1757.4 | 1759.7 | 1756.3 |
| 50° | 1799.2 | 1806.0 | 1822.9 | 1838.7 | 1863.6 | 1897.4 | 1923.4 | 1956.2 | 1972.0 | 1985.5 | 1981.0 |
| 52.5° | 1987.8 | 1988.9 | 2009.3 | 2029.6 | 2065.7 | 2103.0 | 2144.8 | 2178.7 | 2206.9 | 2219.3 | 2209.2 |
| 55° | 2194.5 | 2196.7 | 2214.8 | 2236.3 | 2276.9 | 2319.9 | 2371.8 | 2406.8 | 2443.0 | 2465.6 | 2448.6 |
| 57.5° | 2418.1 | 2419.2 | 2437.3 | 2463.3 | 2511.9 | 2554.8 | 2604.5 | 2654.2 | 2688.1 | 2708.4 | 2697.1 |
| 60° | 2665.5 | 2671.1 | 2684.7 | 2717.4 | 2763.7 | 2808.9 | 2858.6 | 2902.6 | 2942.2 | 2963.6 | 2952.3 |
| 62.5° | 2929.8 | 2935.4 | 2954.6 | 2980.6 | 3021.2 | 3070.9 | 3118.4 | 3174.8 | 3207.6 | 3231.3 | 3214.4 |
| 65° | 3107.1 | 3117.2 | 3147.7 | 3182.7 | 3242.6 | 3307.0 | 3362.3 | 3439.1 | 3478.7 | 3506.9 | 3491.1 |
| 67.5° | 3118.4 | 3124.0 | 3161.3 | 3214.4 | 3294.6 | 3391.7 | 3504.6 | 3624.4 | 3702.3 | 3739.6 | 3712.5 |
| 69° | 3041.6 | 3049.5 | 3085.6 | 3145.5 | 3234.7 | 3347.6 | 3482.0 | 3631.1 | 3750.9 | 3806.2 | 3780.2 |
| 70° | 2954.6 | 2971.5 | 3011.1 | 3076.6 | 3163.5 | 3282.1 | 3421.1 | 3580.3 | 3720.4 | 3796.0 | 3776.8 |
| 72.5° | 2771.6 | 2776.1 | 2802.1 | 2854.1 | 2920.7 | 3019.0 | 3150.0 | 3300.2 | 3433.5 | 3541.9 | 3557.7 |
| 75° | 2459.9 | 2474.6 | 2493.8 | 2528.8 | 2562.7 | 2633.8 | 2721.9 | 2824.7 | 2902.6 | 2986.2 | 2989.6 |
| 77.5° | 1859.0 | 1903.1 | 1917.8 | 1925.7 | 1940.4 | 1996.8 | 2073.6 | 2162.9 | 2227.2 | 2240.8 | 2238.5 |
| 80° | 834.7 | 893.4 | 906.9 | 971.3 | 1010.8 | 1104.6 | 1222.0 | 1358.7 | 1450.2 | 1460.4 | 1435.5 |
| 82.5° | 163.8 | 175.1 | 204.4 | 255.3 | 347.9 | 403.2 | 480.0 | 576.0 | 664.1 | 714.9 | 684.4 |
| 85° | 54.2 | 57.6 | 66.6 | 73.4 | 84.7 | 96.0 | 116.3 | 144.6 | 179.6 | 198.8 | 177.3 |
| 87.5° | 21.5 | 21.5 | 24.8 | 27.1 | 29.4 | 29.4 | 29.4 | 27.1 | 26.0 | 21.5 | 19.2 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 | 560.2 |
| 2.5° | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 |
| 5° | 576.0 | 574.9 | 574.9 | 573.8 | 573.8 | 573.8 | 573.8 | 573.8 |
| 7.5° | 593.0 | 591.8 | 590.7 | 591.8 | 590.7 | 590.7 | 590.7 | 590.7 |
| 10° | 618.9 | 616.7 | 615.5 | 614.4 | 614.4 | 614.4 | 613.3 | 613.3 |
| 12.5° | 649.4 | 649.4 | 648.3 | 647.2 | 644.9 | 646.0 | 644.9 | 642.6 |
| 15° | 691.2 | 689.0 | 687.8 | 686.7 | 684.4 | 684.4 | 684.4 | 683.3 |
| 17.5° | 733.0 | 730.7 | 730.7 | 727.4 | 726.2 | 726.2 | 726.2 | 727.4 |
| 20° | 779.3 | 775.9 | 773.7 | 771.4 | 769.1 | 770.3 | 768.0 | 770.3 |
| 22.5° | 825.6 | 821.1 | 818.8 | 815.5 | 812.1 | 812.1 | 810.9 | 808.7 |
| 25° | 870.8 | 865.1 | 862.9 | 859.5 | 855.0 | 855.0 | 852.7 | 850.5 |
| 27.5° | 913.7 | 908.1 | 905.8 | 899.0 | 894.5 | 893.4 | 891.1 | 890.0 |
| 30° | 961.1 | 954.4 | 951.0 | 944.2 | 937.4 | 936.3 | 932.9 | 932.9 |
| 32.5° | 1010.8 | 1004.1 | 1001.8 | 991.6 | 986.0 | 986.0 | 983.7 | 981.5 |
| 35° | 1073.0 | 1062.8 | 1060.5 | 1050.4 | 1042.5 | 1042.5 | 1040.2 | 1041.3 |
| 37.5° | 1146.4 | 1138.5 | 1130.6 | 1122.7 | 1113.6 | 1112.5 | 1110.2 | 1108.0 |
| 40° | 1244.6 | 1235.6 | 1226.6 | 1215.3 | 1207.4 | 1205.1 | 1201.7 | 1200.6 |
| 42.5° | 1375.7 | 1366.6 | 1348.5 | 1339.5 | 1331.6 | 1324.8 | 1323.7 | 1322.6 |
| 45° | 1542.8 | 1531.5 | 1519.1 | 1502.1 | 1492.0 | 1477.3 | 1475.0 | 1469.4 |
| 47.5° | 1743.8 | 1722.4 | 1700.9 | 1686.2 | 1670.4 | 1653.5 | 1650.1 | 1641.1 |
| 50° | 1957.3 | 1940.4 | 1904.2 | 1880.5 | 1855.7 | 1838.7 | 1827.4 | 1824.0 |
| 52.5° | 2186.6 | 2155.0 | 2118.8 | 2087.2 | 2051.1 | 2028.5 | 2008.1 | 2002.5 |
| 55° | 2426.0 | 2380.8 | 2335.7 | 2298.4 | 2262.3 | 2235.2 | 2215.9 | 2206.9 |
| 57.5° | 2665.5 | 2615.8 | 2566.1 | 2525.4 | 2494.9 | 2459.9 | 2440.7 | 2436.2 |
| 60° | 2915.1 | 2867.6 | 2816.8 | 2776.1 | 2738.9 | 2708.4 | 2697.1 | 2675.6 |
| 62.5° | 3179.4 | 3129.7 | 3082.2 | 3042.7 | 2995.3 | 2973.8 | 2954.6 | 2942.2 |
| 65° | 3439.1 | 3381.5 | 3321.7 | 3279.9 | 3232.4 | 3201.9 | 3178.2 | 3161.3 |
| 67.5° | 3640.2 | 3553.2 | 3473.0 | 3403.0 | 3338.6 | 3291.2 | 3260.7 | 3244.9 |
| 69° | 3696.6 | 3588.2 | 3485.4 | 3393.9 | 3318.3 | 3265.2 | 3231.3 | 3215.5 |
| 70° | 3689.9 | 3570.1 | 3457.2 | 3356.7 | 3274.2 | 3217.8 | 3185.0 | 3155.6 |
| 72.5° | 3480.9 | 3371.4 | 3246.0 | 3136.4 | 3061.9 | 3007.7 | 2974.9 | 2959.1 |
| 75° | 2970.4 | 2897.0 | 2806.6 | 2721.9 | 2667.7 | 2636.1 | 2595.4 | 2596.6 |
| 77.5° | 2162.9 | 2165.1 | 2104.1 | 2017.2 | 1956.2 | 1944.9 | 1926.8 | 1908.7 |
| 80° | 1341.8 | 1234.5 | 1164.4 | 1070.7 | 1001.8 | 941.9 | 916.0 | 859.5 |
| 82.5° | 618.9 | 483.4 | 375.0 | 283.5 | 218.0 | 170.5 | 149.1 | 122.0 |
| 85° | 137.8 | 105.0 | 87.0 | 70.0 | 59.9 | 55.3 | 45.2 | 41.8 |
| 87.5° | 19.2 | 16.9 | 15.8 | 14.7 | 12.4 | 9.0 | 6.8 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)