

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: P148116

Luminaire Tested: **AVS-F04-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148116  
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: AVS-F04-LED-E-U-5WQ-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (28) 5000K 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 (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: 28.75 FT



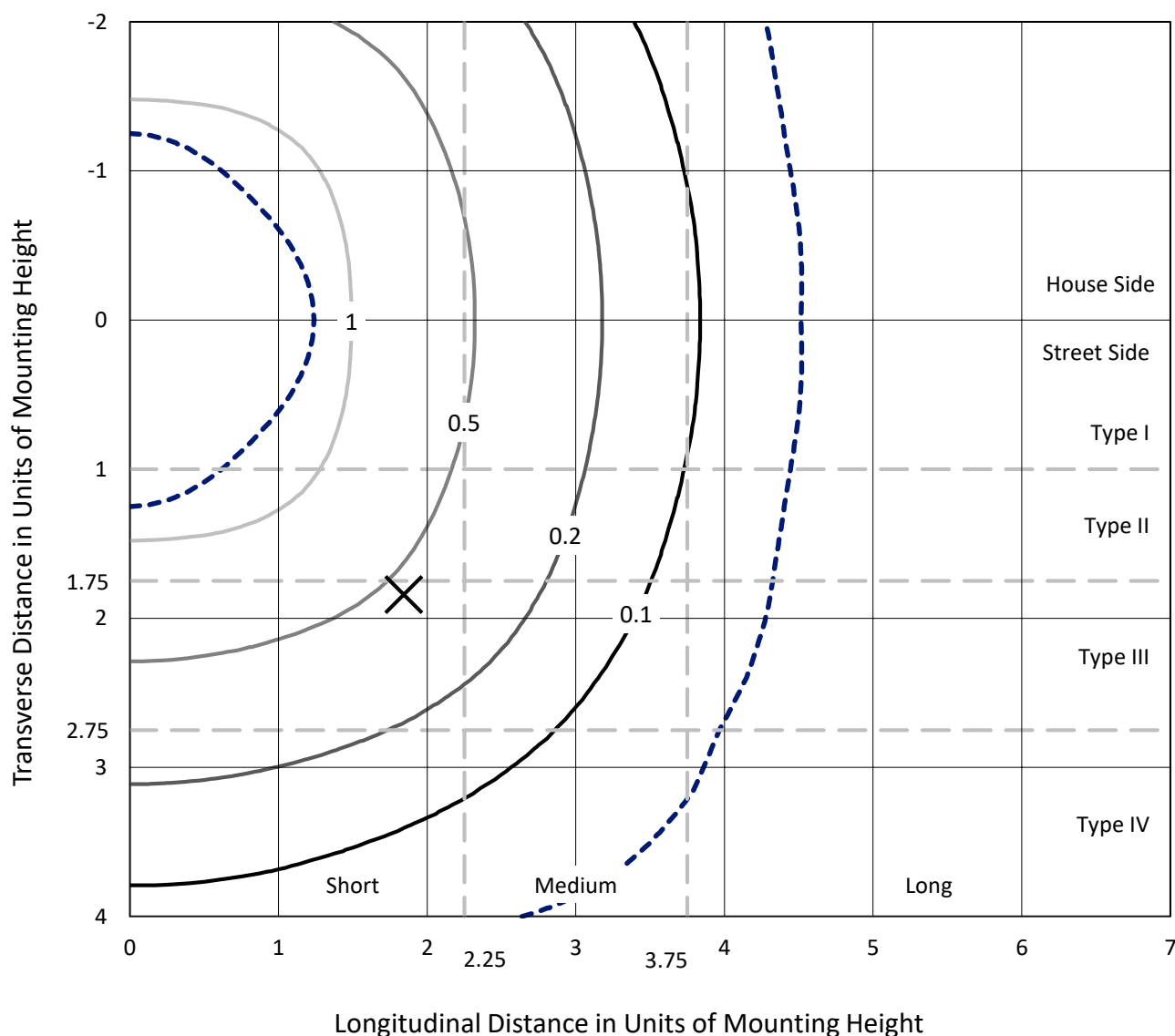
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

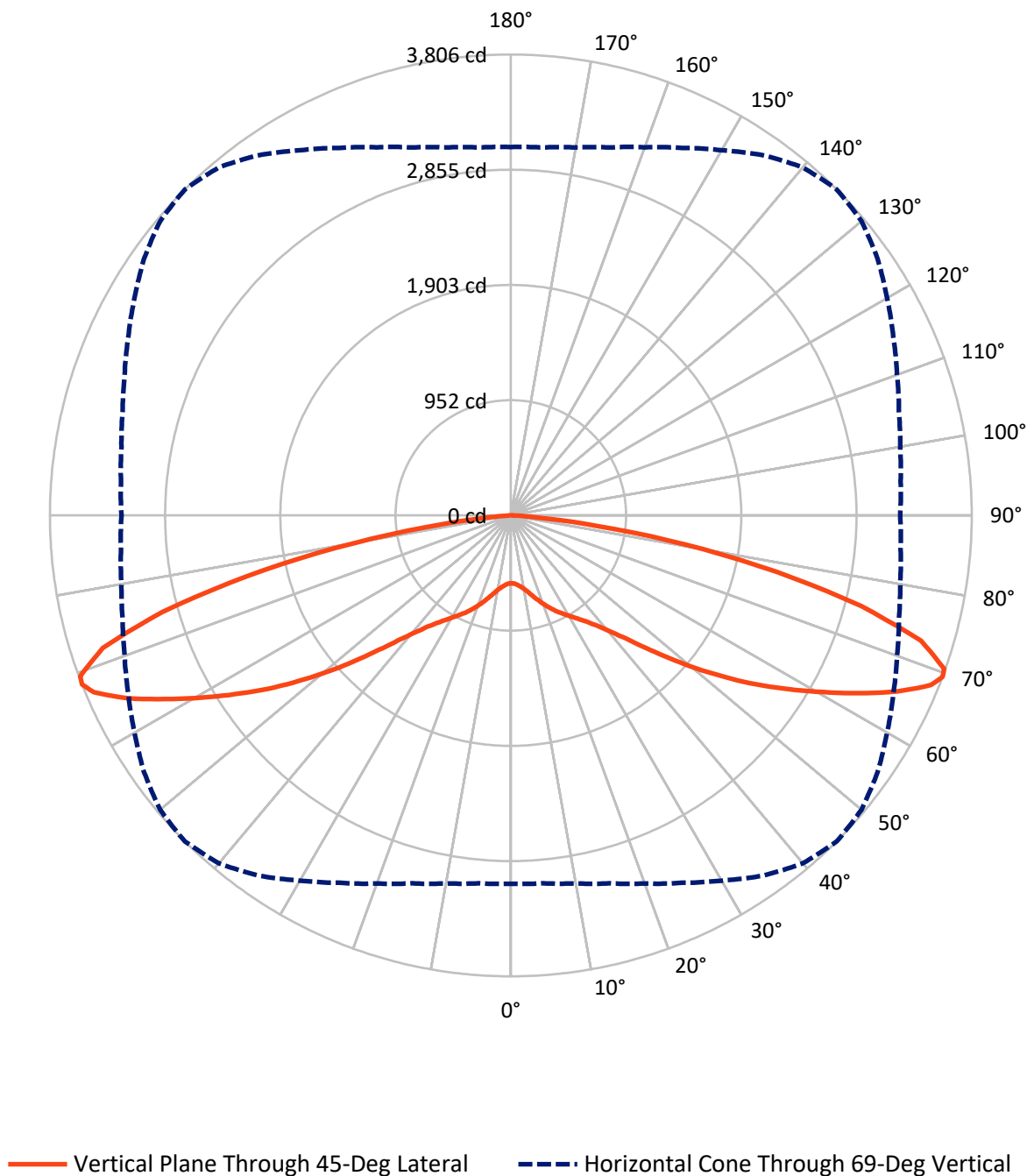


Based on 20 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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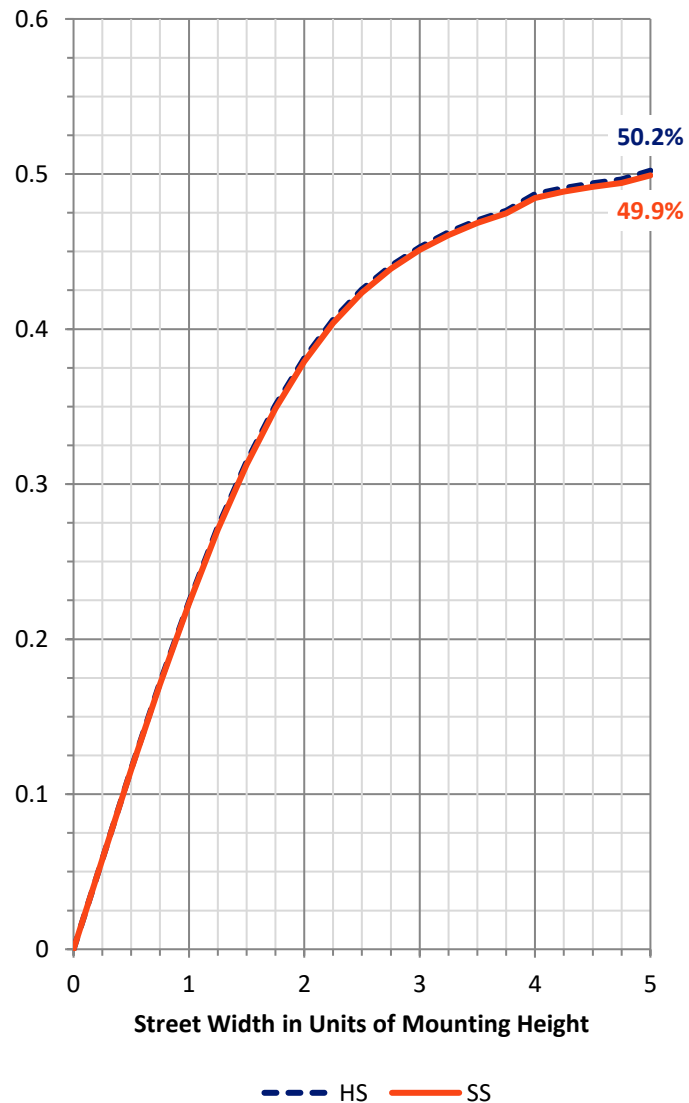
**FLUX DISTRIBUTION:**

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

**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     |

**Coefficient of Utilization**



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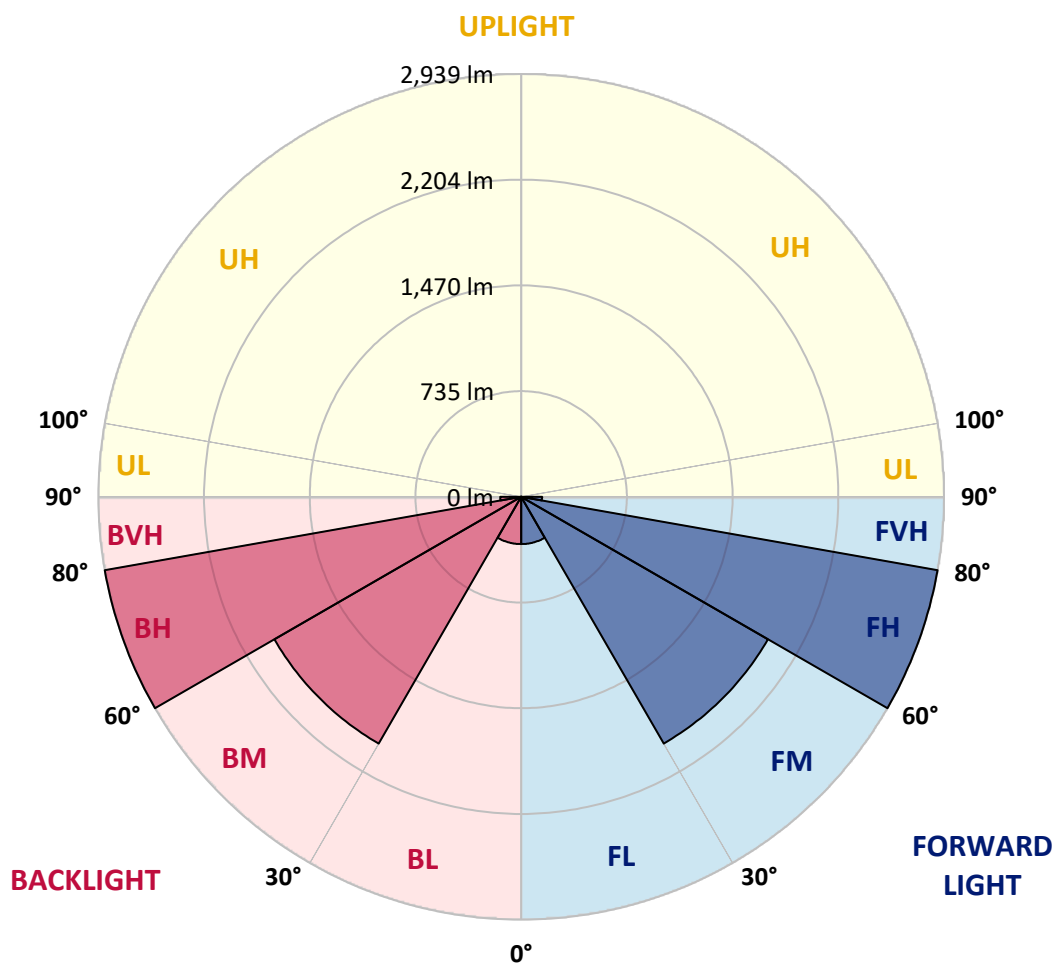
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 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°  | 564.8  | 565.8  | 564.8  | 564.8  | 564.8  | 564.8  | 564.8  | 563.6  | 563.6  | 563.6  | 564.8  |
| 5°    | 576.1  | 577.1  | 576.1  | 577.1  | 577.1  | 577.1  | 577.1  | 576.1  | 576.1  | 576.1  | 576.1  |
| 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  | 619.0  | 619.0  | 619.0  | 619.0  | 619.0  | 620.1  | 620.1  | 620.1  | 619.0  | 619.0  |
| 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  | 735.2  | 733.0  | 734.1  | 735.2  | 734.1  | 736.4  | 737.5  | 738.7  | 737.5  | 734.1  |
| 20°   | 777.1  | 778.1  | 778.1  | 778.1  | 778.1  | 780.4  | 781.6  | 781.6  | 785.0  | 783.8  | 782.7  |
| 22.5° | 818.9  | 821.1  | 821.1  | 822.3  | 822.3  | 825.6  | 825.6  | 825.6  | 827.9  | 830.2  | 827.9  |
| 25°   | 862.9  | 861.8  | 861.8  | 864.0  | 865.2  | 869.6  | 869.6  | 871.9  | 875.3  | 876.5  | 874.2  |
| 27.5° | 902.4  | 901.2  | 901.2  | 904.7  | 905.8  | 911.5  | 911.5  | 916.0  | 918.2  | 919.4  | 917.1  |
| 30°   | 944.2  | 944.2  | 943.1  | 946.4  | 949.8  | 954.4  | 956.6  | 961.1  | 964.6  | 965.7  | 963.4  |
| 32.5° | 993.9  | 991.6  | 992.7  | 995.0  | 997.3  | 1001.8 | 1005.2 | 1010.9 | 1015.3 | 1016.5 | 1014.2 |
| 35°   | 1050.4 | 1046.9 | 1048.1 | 1050.4 | 1053.8 | 1060.5 | 1066.2 | 1069.5 | 1076.4 | 1078.7 | 1074.1 |
| 37.5° | 1112.5 | 1113.6 | 1112.5 | 1118.1 | 1123.8 | 1131.7 | 1138.4 | 1143.0 | 1149.7 | 1153.2 | 1149.7 |
| 40°   | 1200.6 | 1197.2 | 1200.6 | 1206.2 | 1215.2 | 1225.4 | 1239.0 | 1242.4 | 1249.1 | 1256.0 | 1248.0 |
| 42.5° | 1314.6 | 1312.4 | 1320.3 | 1324.9 | 1335.0 | 1346.3 | 1363.2 | 1372.2 | 1382.4 | 1386.9 | 1380.2 |
| 45°   | 1463.7 | 1463.7 | 1472.7 | 1473.9 | 1489.7 | 1504.5 | 1528.1 | 1539.4 | 1558.7 | 1558.7 | 1558.7 |
| 47.5° | 1628.6 | 1635.4 | 1641.0 | 1652.3 | 1663.6 | 1690.8 | 1714.5 | 1739.4 | 1757.4 | 1759.7 | 1756.3 |
| 50°   | 1799.2 | 1806.0 | 1822.9 | 1838.8 | 1863.5 | 1897.4 | 1923.4 | 1956.2 | 1972.0 | 1985.6 | 1981.0 |
| 52.5° | 1987.8 | 1988.9 | 2009.2 | 2029.6 | 2065.7 | 2103.0 | 2144.8 | 2178.7 | 2206.9 | 2219.4 | 2209.2 |
| 55°   | 2194.5 | 2196.8 | 2214.8 | 2236.3 | 2276.9 | 2319.9 | 2371.8 | 2406.8 | 2443.0 | 2465.6 | 2448.6 |
| 57.5° | 2418.1 | 2419.3 | 2437.3 | 2463.3 | 2511.8 | 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 | 2858.5 | 2902.7 | 2942.2 | 2963.6 | 2952.3 |
| 62.5° | 2929.7 | 2935.4 | 2954.6 | 2980.6 | 3021.2 | 3070.9 | 3118.3 | 3174.8 | 3207.6 | 3231.3 | 3214.4 |
| 65°   | 3107.0 | 3117.2 | 3147.8 | 3182.7 | 3242.6 | 3306.9 | 3362.3 | 3439.2 | 3478.7 | 3506.9 | 3491.1 |
| 67.5° | 3118.3 | 3124.0 | 3161.2 | 3214.4 | 3294.5 | 3391.7 | 3504.7 | 3624.4 | 3702.3 | 3739.6 | 3712.4 |
| 69°   | 3041.6 | 3049.4 | 3085.6 | 3145.5 | 3234.7 | 3347.7 | 3482.1 | 3631.1 | 3750.9 | 3806.2 | 3780.2 |
| 70°   | 2954.6 | 2971.5 | 3011.1 | 3076.6 | 3163.5 | 3282.2 | 3421.0 | 3580.3 | 3720.3 | 3796.1 | 3776.8 |
| 72.5° | 2771.6 | 2776.2 | 2802.2 | 2854.1 | 2920.7 | 3019.0 | 3149.9 | 3300.2 | 3433.5 | 3541.9 | 3557.7 |
| 75°   | 2459.9 | 2474.6 | 2493.8 | 2528.8 | 2562.7 | 2633.9 | 2722.0 | 2824.7 | 2902.7 | 2986.2 | 2989.6 |
| 77.5° | 1859.1 | 1903.1 | 1917.8 | 1925.7 | 1940.4 | 1996.9 | 2073.7 | 2162.9 | 2227.3 | 2240.8 | 2238.5 |
| 80°   | 834.6  | 893.4  | 906.9  | 971.3  | 1010.9 | 1104.6 | 1222.1 | 1358.8 | 1450.2 | 1460.3 | 1435.5 |
| 82.5° | 163.7  | 175.0  | 204.5  | 255.2  | 347.9  | 403.2  | 480.0  | 576.1  | 664.1  | 714.9  | 684.5  |
| 85°   | 54.2   | 57.6   | 66.6   | 73.4   | 84.7   | 96.0   | 116.4  | 144.6  | 179.6  | 198.8  | 177.3  |
| 87.5° | 21.5   | 21.5   | 24.9   | 27.2   | 29.3   | 29.3   | 29.3   | 27.2   | 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°    | 576.1  | 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°   | 619.0  | 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  | 642.7  |
| 15°   | 691.2  | 688.9  | 687.9  | 686.7  | 684.5  | 684.5  | 684.5  | 683.3  |
| 17.5° | 733.0  | 730.8  | 730.8  | 727.4  | 726.2  | 726.2  | 726.2  | 727.4  |
| 20°   | 779.3  | 776.0  | 773.7  | 771.4  | 769.1  | 770.3  | 768.0  | 770.3  |
| 22.5° | 825.6  | 821.1  | 818.9  | 815.4  | 812.0  | 812.0  | 811.0  | 808.7  |
| 25°   | 870.8  | 865.2  | 862.9  | 859.5  | 855.0  | 855.0  | 852.7  | 850.5  |
| 27.5° | 913.7  | 908.1  | 905.8  | 899.1  | 894.5  | 893.4  | 891.1  | 889.9  |
| 30°   | 961.1  | 954.4  | 951.0  | 944.2  | 937.4  | 936.3  | 933.0  | 933.0  |
| 32.5° | 1010.9 | 1004.0 | 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 | 1138.4 | 1130.6 | 1122.7 | 1113.6 | 1112.5 | 1110.3 | 1108.0 |
| 40°   | 1244.7 | 1235.6 | 1226.5 | 1215.2 | 1207.4 | 1205.1 | 1201.8 | 1200.6 |
| 42.5° | 1375.6 | 1366.6 | 1348.5 | 1339.5 | 1331.6 | 1324.9 | 1323.7 | 1322.6 |
| 45°   | 1542.8 | 1531.5 | 1519.1 | 1502.2 | 1492.0 | 1477.3 | 1475.0 | 1469.4 |
| 47.5° | 1743.8 | 1722.4 | 1700.9 | 1686.2 | 1670.5 | 1653.5 | 1650.1 | 1641.0 |
| 50°   | 1957.3 | 1940.4 | 1904.2 | 1880.5 | 1855.6 | 1838.8 | 1827.5 | 1824.0 |
| 52.5° | 2186.6 | 2154.9 | 2118.9 | 2087.2 | 2051.1 | 2028.5 | 2008.1 | 2002.5 |
| 55°   | 2426.0 | 2380.8 | 2335.6 | 2298.4 | 2262.3 | 2235.1 | 2216.0 | 2206.9 |
| 57.5° | 2665.5 | 2615.8 | 2566.1 | 2525.4 | 2494.9 | 2459.9 | 2440.7 | 2436.2 |
| 60°   | 2915.0 | 2867.7 | 2816.8 | 2776.2 | 2738.9 | 2708.4 | 2697.1 | 2675.6 |
| 62.5° | 3179.4 | 3129.6 | 3082.2 | 3042.7 | 2995.2 | 2973.8 | 2954.6 | 2942.2 |
| 65°   | 3439.2 | 3381.6 | 3321.7 | 3279.9 | 3232.4 | 3202.0 | 3178.2 | 3161.2 |
| 67.5° | 3640.2 | 3553.2 | 3473.1 | 3403.0 | 3338.7 | 3291.2 | 3260.7 | 3244.9 |
| 69°   | 3696.7 | 3588.2 | 3485.4 | 3394.0 | 3318.2 | 3265.2 | 3231.3 | 3215.5 |
| 70°   | 3689.8 | 3570.2 | 3457.2 | 3356.7 | 3274.2 | 3217.7 | 3185.0 | 3155.6 |
| 72.5° | 3480.9 | 3371.4 | 3246.0 | 3136.5 | 3061.9 | 3007.7 | 2974.9 | 2959.1 |
| 75°   | 2970.4 | 2897.0 | 2806.6 | 2722.0 | 2667.8 | 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 | 1164.5 | 1070.7 | 1001.8 | 942.0  | 916.0  | 859.5  |
| 82.5° | 619.0  | 483.4  | 374.9  | 283.5  | 218.0  | 170.6  | 149.1  | 122.0  |
| 85°   | 137.8  | 105.1  | 86.9   | 70.1   | 59.9   | 55.3   | 45.2   | 41.8   |
| 87.5° | 19.2   | 16.9   | 15.9   | 14.7   | 12.4   | 9.0    | 6.7    | 5.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)