

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: P148631

Luminaire Tested: **AVS-E04-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P148631  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E04-LED-E-U-5XQ-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (84) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13053.6 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

Input Watts (W): 97.2  
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



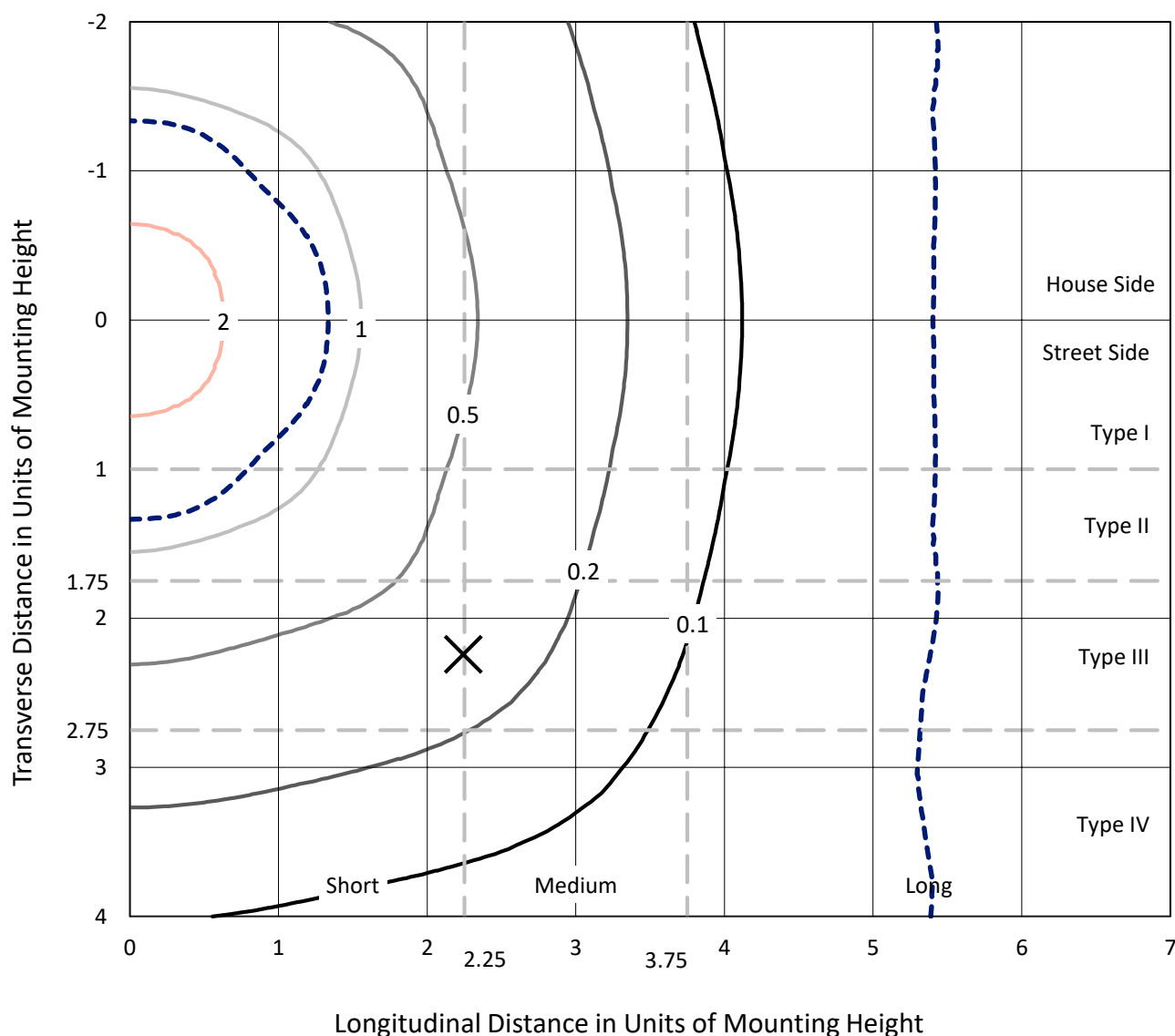
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

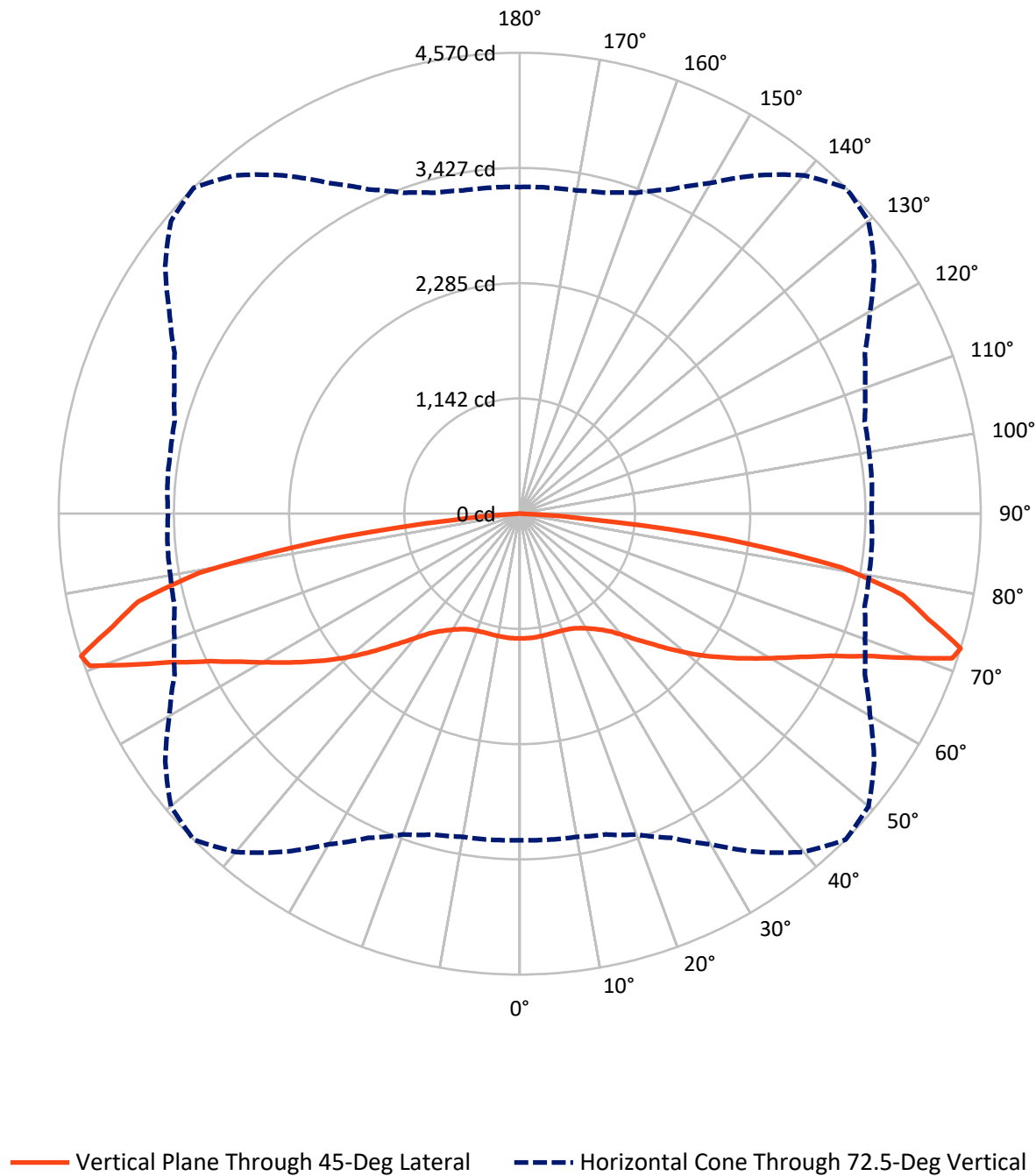


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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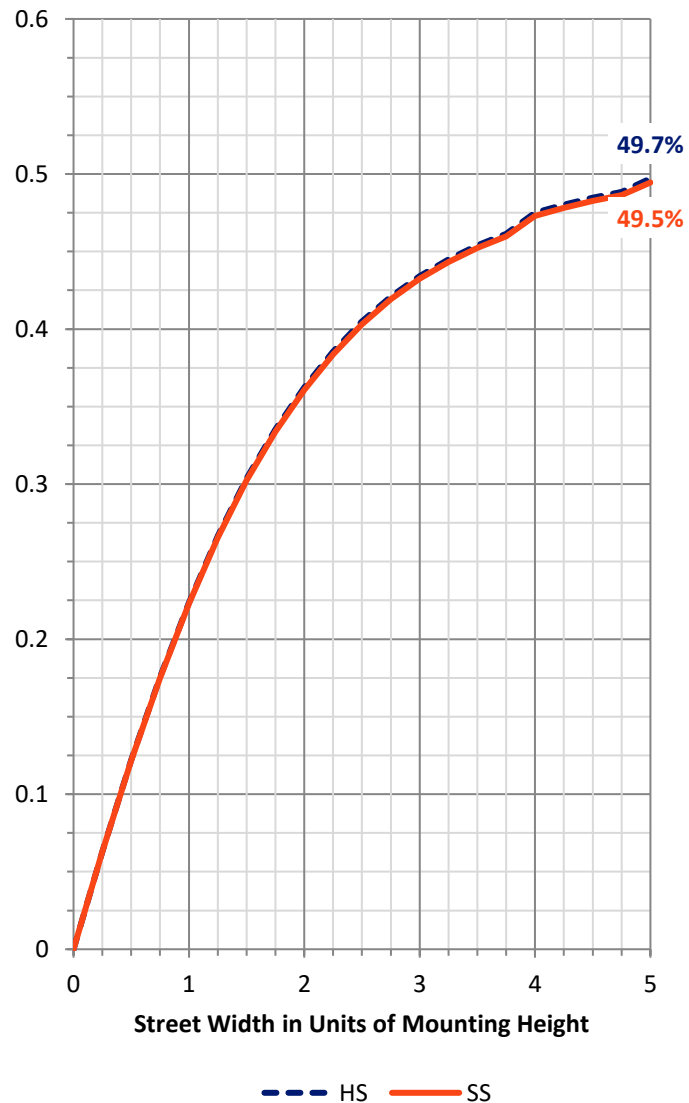
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6526.8   | 0.0    | 6526.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6526.8   | 0.0    | 6526.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13053.6  | 0.0    | 13053.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 117.9   | 0.9       |
| 10°-20°   | 348.7   | 2.7       |
| 20°-30°   | 583.9   | 4.5       |
| 30°-40°   | 890.1   | 6.8       |
| 40°-50°   | 1421.3  | 10.9      |
| 50°-60°   | 2185.4  | 16.7      |
| 60°-70°   | 3181.9  | 24.4      |
| 70°-80°   | 3584.4  | 27.5      |
| 80°-90°   | 739.9   | 5.7       |
| 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°    | 13053.6 | 100.0     |
| 0°-180°   | 13053.6 | 100.0     |

**Coefficient of Utilization**



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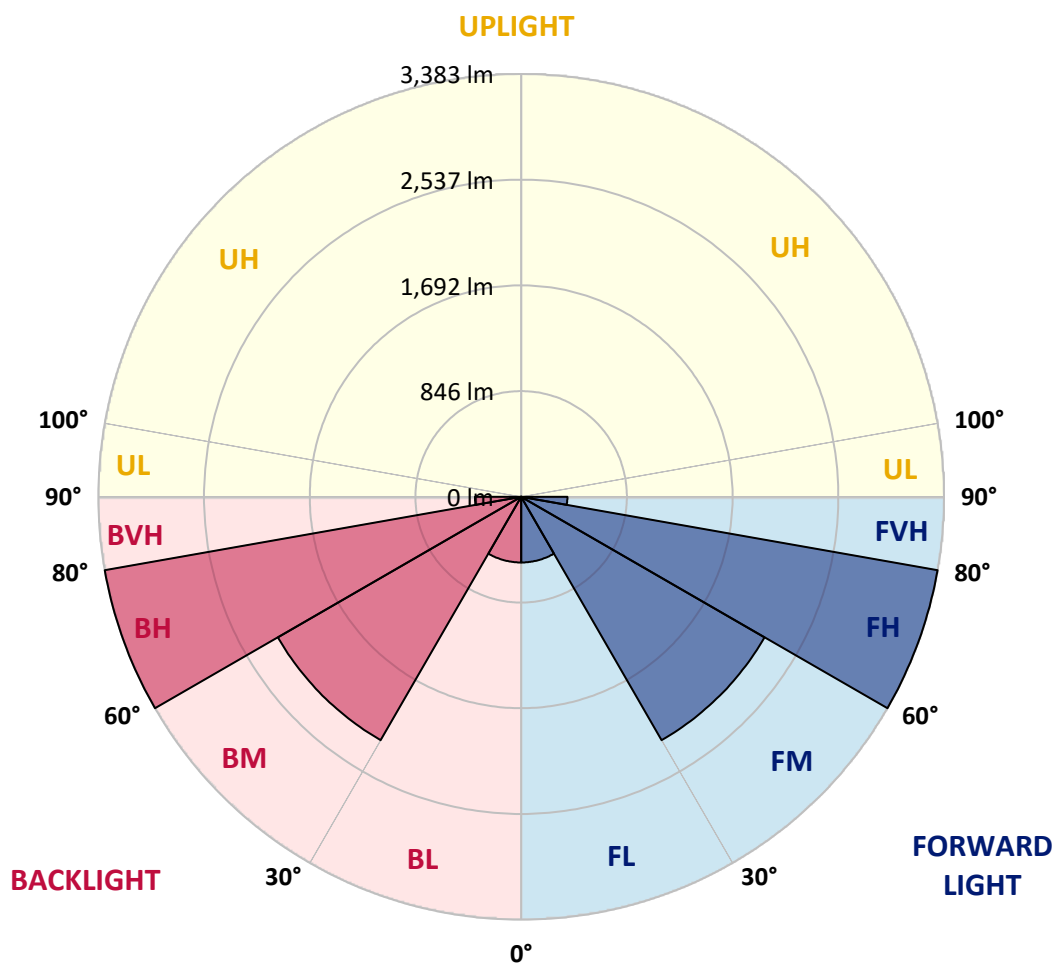
CATALOG NUMBER: AVS-E04-LED-E-U-5XQ-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 525.2  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 2248.4 | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 3383.2 | 25.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 370.0  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 525.2  | 4.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2248.4 | 17.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3383.2 | 25.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 370.0  | 2.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 |
| 2.5°  | 1238.9 | 1239.5 | 1239.2 | 1238.5 | 1238.9 | 1238.5 | 1237.8 | 1237.5 | 1235.1 | 1236.5 | 1238.5 |
| 5°    | 1238.9 | 1238.1 | 1237.8 | 1237.5 | 1237.5 | 1238.5 | 1237.5 | 1236.5 | 1236.2 | 1236.8 | 1235.8 |
| 7.5°  | 1238.1 | 1236.8 | 1236.1 | 1235.8 | 1236.1 | 1236.5 | 1235.4 | 1234.0 | 1235.0 | 1234.0 | 1232.7 |
| 10°   | 1236.1 | 1235.0 | 1235.4 | 1234.1 | 1234.4 | 1234.0 | 1232.7 | 1231.7 | 1232.3 | 1231.3 | 1229.6 |
| 12.5° | 1236.8 | 1235.0 | 1234.7 | 1234.1 | 1233.7 | 1233.4 | 1231.7 | 1229.9 | 1230.3 | 1229.6 | 1227.9 |
| 15°   | 1236.8 | 1235.8 | 1235.4 | 1234.0 | 1233.7 | 1233.1 | 1231.0 | 1230.3 | 1230.3 | 1229.2 | 1227.3 |
| 17.5° | 1237.5 | 1236.8 | 1236.8 | 1235.0 | 1234.4 | 1234.1 | 1231.7 | 1230.7 | 1231.7 | 1229.6 | 1228.3 |
| 20°   | 1239.6 | 1238.9 | 1239.2 | 1238.1 | 1236.8 | 1236.8 | 1235.1 | 1234.4 | 1234.8 | 1234.4 | 1230.7 |
| 22.5° | 1243.7 | 1243.7 | 1244.4 | 1243.9 | 1243.6 | 1243.9 | 1242.6 | 1242.7 | 1243.0 | 1242.9 | 1239.9 |
| 25°   | 1255.3 | 1254.9 | 1255.6 | 1255.5 | 1256.0 | 1258.3 | 1257.3 | 1257.0 | 1258.7 | 1258.7 | 1255.5 |
| 27.5° | 1277.1 | 1276.5 | 1277.2 | 1277.8 | 1279.6 | 1282.7 | 1282.0 | 1283.0 | 1285.7 | 1285.0 | 1282.3 |
| 30°   | 1302.5 | 1301.8 | 1303.5 | 1305.5 | 1306.9 | 1311.7 | 1309.6 | 1314.8 | 1317.2 | 1319.3 | 1317.2 |
| 32.5° | 1339.5 | 1339.4 | 1342.5 | 1343.8 | 1346.9 | 1351.7 | 1352.4 | 1356.5 | 1359.6 | 1363.0 | 1360.6 |
| 35°   | 1388.7 | 1388.0 | 1390.4 | 1392.7 | 1396.6 | 1400.9 | 1402.7 | 1408.2 | 1413.0 | 1415.3 | 1410.9 |
| 37.5° | 1463.8 | 1460.1 | 1464.7 | 1465.9 | 1469.0 | 1470.1 | 1474.8 | 1481.7 | 1486.8 | 1486.1 | 1483.1 |
| 40°   | 1565.8 | 1565.2 | 1563.4 | 1561.5 | 1566.2 | 1567.9 | 1567.9 | 1577.1 | 1585.4 | 1584.0 | 1583.6 |
| 42.5° | 1684.9 | 1681.8 | 1679.8 | 1679.7 | 1682.5 | 1683.1 | 1693.7 | 1700.6 | 1706.4 | 1707.8 | 1706.4 |
| 45°   | 1812.8 | 1809.7 | 1810.4 | 1809.0 | 1810.1 | 1814.5 | 1820.7 | 1833.4 | 1844.2 | 1844.6 | 1838.8 |
| 47.5° | 1950.3 | 1940.7 | 1948.2 | 1937.6 | 1944.0 | 1947.6 | 1962.9 | 1981.3 | 2000.5 | 2004.0 | 1998.9 |
| 50°   | 2089.7 | 2088.8 | 2088.1 | 2086.1 | 2089.1 | 2096.7 | 2115.4 | 2144.6 | 2163.0 | 2175.3 | 2167.2 |
| 52.5° | 2242.4 | 2237.3 | 2234.8 | 2231.5 | 2234.5 | 2249.2 | 2275.5 | 2300.9 | 2334.1 | 2348.1 | 2336.8 |
| 55°   | 2390.9 | 2389.1 | 2380.2 | 2379.9 | 2386.3 | 2409.3 | 2438.0 | 2469.2 | 2505.1 | 2520.8 | 2516.7 |
| 57.5° | 2543.4 | 2533.5 | 2530.7 | 2526.6 | 2539.6 | 2561.1 | 2596.4 | 2652.4 | 2689.7 | 2707.6 | 2697.3 |
| 60°   | 2692.4 | 2685.0 | 2679.2 | 2677.7 | 2686.6 | 2716.8 | 2767.5 | 2834.8 | 2880.9 | 2904.2 | 2887.9 |
| 62.5° | 2852.6 | 2847.8 | 2840.9 | 2833.1 | 2851.9 | 2890.6 | 2953.5 | 3028.0 | 3096.1 | 3124.9 | 3099.9 |
| 65°   | 3051.6 | 3041.8 | 3034.2 | 3024.2 | 3039.6 | 3088.2 | 3167.3 | 3272.2 | 3363.5 | 3397.1 | 3379.3 |
| 67.5° | 3261.7 | 3252.4 | 3253.1 | 3246.9 | 3274.3 | 3341.8 | 3443.6 | 3586.2 | 3708.7 | 3765.8 | 3732.2 |
| 70°   | 3445.0 | 3450.1 | 3451.4 | 3476.5 | 3523.6 | 3626.2 | 3795.9 | 4019.3 | 4205.0 | 4292.2 | 4256.3 |
| 71°   | 3390.9 | 3402.3 | 3419.7 | 3445.7 | 3527.0 | 3648.5 | 3880.0 | 4150.7 | 4372.2 | 4520.0 | 4470.4 |
| 72.5° | 3237.7 | 3244.6 | 3253.5 | 3293.1 | 3385.1 | 3545.9 | 3784.2 | 4093.5 | 4378.4 | 4569.5 | 4512.1 |
| 75°   | 3016.1 | 3022.6 | 3025.7 | 3053.4 | 3137.2 | 3277.4 | 3495.5 | 3769.9 | 4021.3 | 4184.1 | 4168.1 |
| 77.5° | 2681.6 | 2682.6 | 2706.5 | 2749.2 | 2843.3 | 3003.7 | 3233.6 | 3518.1 | 3754.5 | 3881.0 | 3800.6 |
| 80°   | 1925.6 | 1912.6 | 1937.3 | 1992.3 | 2108.7 | 2292.6 | 2528.0 | 2852.8 | 3115.2 | 3233.6 | 3109.1 |
| 82.5° | 732.6  | 772.3  | 834.9  | 925.9  | 965.2  | 1169.7 | 1389.3 | 1580.2 | 1801.1 | 2048.1 | 1986.2 |
| 85°   | 78.7   | 88.6   | 111.1  | 137.8  | 174.1  | 240.7  | 332.8  | 454.2  | 559.9  | 658.0  | 584.2  |
| 87.5° | 29.4   | 30.1   | 33.6   | 38.7   | 39.4   | 41.0   | 43.7   | 51.0   | 47.6   | 41.0   | 33.2   |
| 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°    | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1236.8 |
| 2.5°  | 1236.8 | 1237.1 | 1236.8 | 1237.1 | 1237.2 | 1235.8 | 1236.2 | 1235.4 |
| 5°    | 1236.5 | 1235.4 | 1235.8 | 1236.1 | 1235.8 | 1236.5 | 1235.4 | 1236.1 |
| 7.5°  | 1234.7 | 1232.7 | 1233.4 | 1233.4 | 1232.7 | 1233.7 | 1233.1 | 1232.7 |
| 10°   | 1231.3 | 1228.6 | 1229.9 | 1229.2 | 1228.9 | 1229.3 | 1229.2 | 1229.2 |
| 12.5° | 1228.2 | 1226.5 | 1226.8 | 1226.5 | 1226.2 | 1227.3 | 1226.8 | 1227.3 |
| 15°   | 1227.6 | 1224.9 | 1224.5 | 1223.8 | 1224.1 | 1224.9 | 1224.9 | 1225.8 |
| 17.5° | 1226.8 | 1223.4 | 1223.1 | 1222.5 | 1222.8 | 1224.1 | 1224.5 | 1223.8 |
| 20°   | 1228.9 | 1226.2 | 1225.5 | 1224.9 | 1224.5 | 1226.1 | 1225.9 | 1225.8 |
| 22.5° | 1238.5 | 1235.1 | 1234.7 | 1232.0 | 1231.0 | 1232.0 | 1231.3 | 1231.3 |
| 25°   | 1253.9 | 1249.8 | 1248.5 | 1244.7 | 1241.9 | 1241.9 | 1240.9 | 1240.2 |
| 27.5° | 1281.7 | 1275.4 | 1274.1 | 1271.0 | 1267.3 | 1268.0 | 1265.9 | 1265.5 |
| 30°   | 1313.8 | 1308.3 | 1303.5 | 1299.1 | 1294.6 | 1292.8 | 1290.5 | 1290.2 |
| 32.5° | 1355.9 | 1349.6 | 1343.8 | 1338.4 | 1332.2 | 1329.8 | 1325.7 | 1323.7 |
| 35°   | 1407.5 | 1399.3 | 1392.4 | 1388.6 | 1382.5 | 1379.4 | 1376.7 | 1379.7 |
| 37.5° | 1479.7 | 1469.7 | 1466.3 | 1461.9 | 1457.7 | 1453.0 | 1454.0 | 1453.0 |
| 40°   | 1579.5 | 1570.7 | 1567.3 | 1559.4 | 1558.3 | 1552.8 | 1556.3 | 1552.8 |
| 42.5° | 1703.0 | 1686.6 | 1684.1 | 1678.0 | 1676.0 | 1672.8 | 1674.3 | 1671.9 |
| 45°   | 1837.4 | 1822.7 | 1819.9 | 1810.1 | 1810.4 | 1803.2 | 1805.9 | 1806.0 |
| 47.5° | 1988.6 | 1973.3 | 1960.5 | 1953.4 | 1950.7 | 1946.1 | 1948.6 | 1948.2 |
| 50°   | 2144.6 | 2123.7 | 2109.6 | 2095.6 | 2089.5 | 2091.2 | 2086.4 | 2094.6 |
| 52.5° | 2312.1 | 2281.0 | 2261.1 | 2247.9 | 2236.3 | 2238.7 | 2239.3 | 2241.7 |
| 55°   | 2485.6 | 2445.9 | 2417.2 | 2399.7 | 2389.1 | 2389.8 | 2392.8 | 2395.6 |
| 57.5° | 2660.0 | 2610.4 | 2571.4 | 2545.4 | 2538.5 | 2541.7 | 2541.7 | 2541.3 |
| 60°   | 2840.9 | 2781.5 | 2731.2 | 2701.8 | 2695.5 | 2693.9 | 2707.2 | 2702.7 |
| 62.5° | 3035.2 | 2963.7 | 2911.7 | 2874.2 | 2865.2 | 2871.4 | 2883.3 | 2880.6 |
| 65°   | 3292.7 | 3193.9 | 3126.9 | 3089.6 | 3074.5 | 3080.7 | 3096.8 | 3096.2 |
| 67.5° | 3624.9 | 3486.7 | 3398.1 | 3350.3 | 3339.3 | 3346.8 | 3355.8 | 3364.4 |
| 70°   | 4121.5 | 3924.1 | 3797.6 | 3694.0 | 3649.5 | 3641.0 | 3649.8 | 3650.2 |
| 71°   | 4296.3 | 4069.5 | 3868.1 | 3741.6 | 3668.6 | 3637.9 | 3640.3 | 3624.9 |
| 72.5° | 4289.1 | 4009.6 | 3774.0 | 3641.7 | 3540.4 | 3515.8 | 3503.8 | 3485.4 |
| 75°   | 4000.1 | 3748.4 | 3543.8 | 3399.5 | 3302.0 | 3273.0 | 3251.7 | 3250.8 |
| 77.5° | 3627.6 | 3441.9 | 3216.5 | 3063.6 | 2944.9 | 2896.7 | 2875.1 | 2874.4 |
| 80°   | 2916.2 | 2638.1 | 2473.3 | 2381.2 | 2237.9 | 2196.6 | 2152.7 | 2136.4 |
| 82.5° | 1763.5 | 1378.0 | 1120.5 | 995.6  | 926.6  | 763.1  | 684.8  | 647.9  |
| 85°   | 410.8  | 291.8  | 201.1  | 132.0  | 95.1   | 75.6   | 58.1   | 51.3   |
| 87.5° | 27.7   | 21.9   | 19.5   | 15.8   | 12.0   | 11.6   | 7.2    | 6.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)