

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: INVUE

Report Number: P147718

Luminaire Tested: **VXS-E05-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147718  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E05-LED-E1-5WQ-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13435.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3  
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: 25 FT

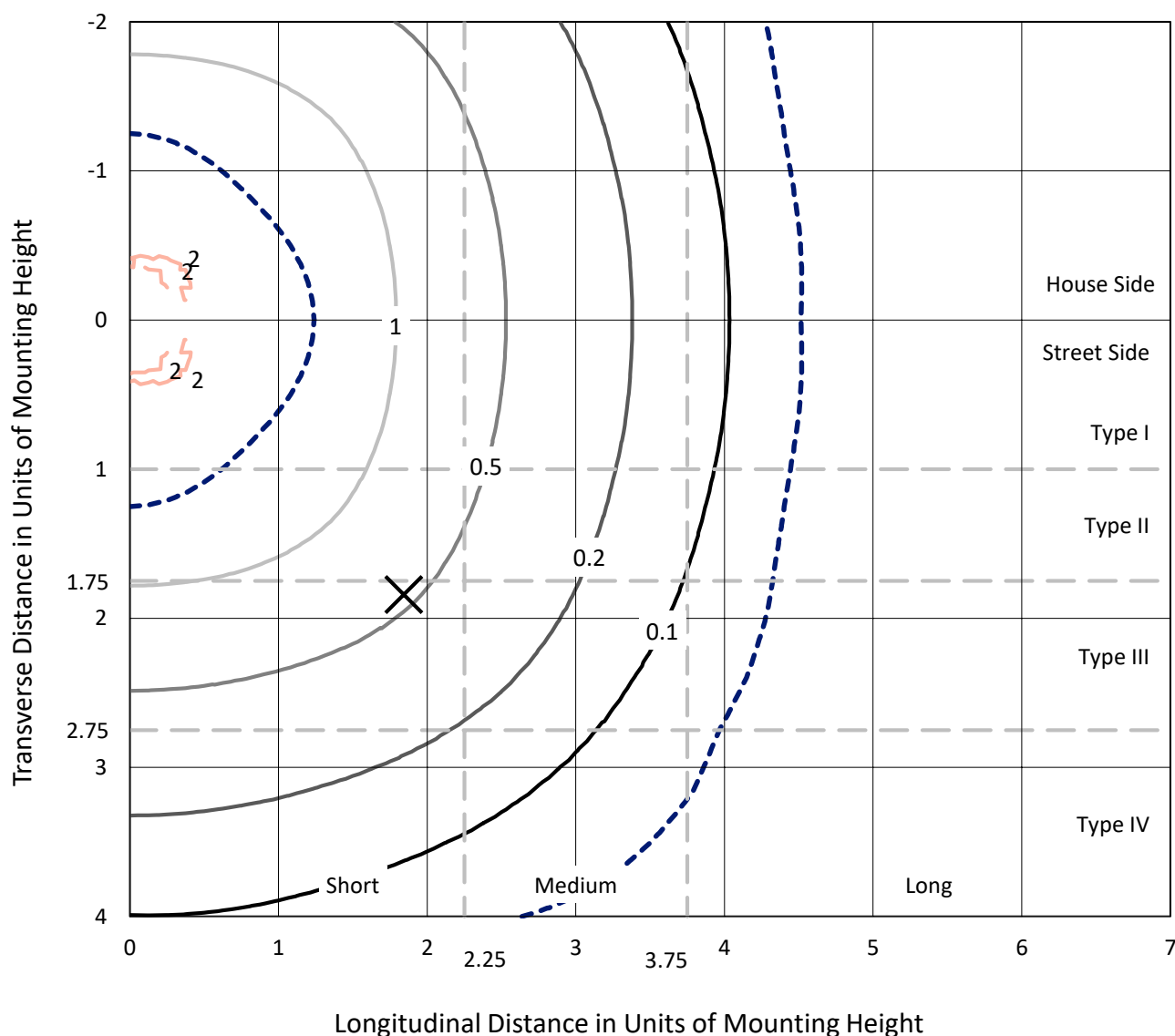


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

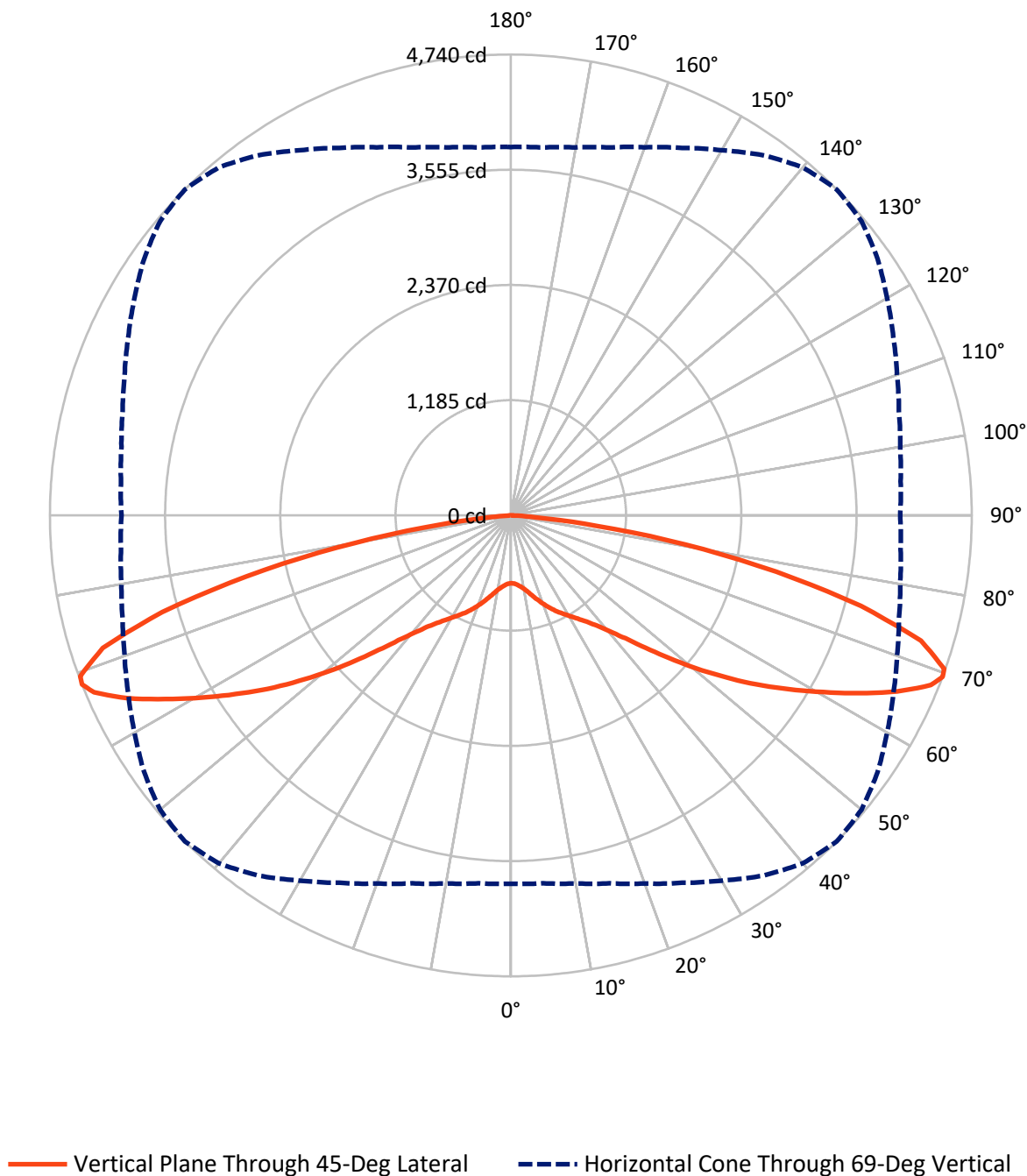


Based on 20 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6717.7   | 0.0    | 6717.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6717.7   | 0.0    | 6717.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13435.5  | 0.0    | 13435.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 70.1    | 0.5       |
| 10°-20°   | 247.4   | 1.8       |
| 20°-30°   | 500.9   | 3.7       |
| 30°-40°   | 839.8   | 6.3       |
| 40°-50°   | 1481.4  | 11.0      |
| 50°-60°   | 2612.5  | 19.4      |
| 60°-70°   | 3988.4  | 29.7      |
| 70°-80°   | 3332.8  | 24.8      |
| 80°-90°   | 362.1   | 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°    | 13435.5 | 100.0     |
| 0°-180°   | 13435.5 | 100.0     |

**Coefficient of Utilization**



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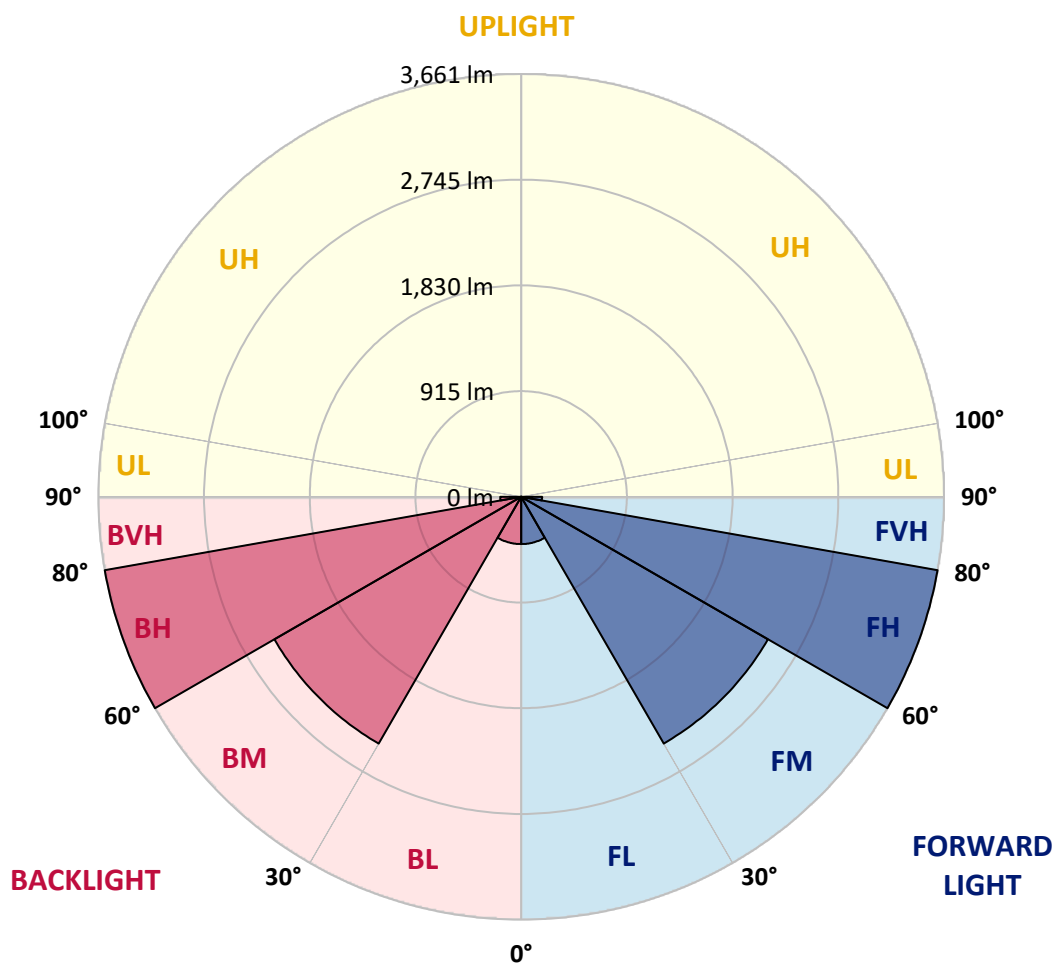
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 409.2  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 2466.9 | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 3660.6 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 181.1  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 409.2  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2466.9 | 18.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3660.6 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 181.1  | 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°    | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  |
| 2.5°  | 703.3  | 704.8  | 703.3  | 703.3  | 703.3  | 703.3  | 703.3  | 702.0  | 702.0  | 702.0  | 703.3  |
| 5°    | 717.4  | 718.8  | 717.4  | 718.8  | 718.8  | 718.8  | 718.8  | 717.4  | 717.4  | 717.4  | 717.4  |
| 7.5°  | 739.9  | 739.9  | 739.9  | 741.3  | 739.9  | 739.9  | 741.3  | 739.9  | 739.9  | 739.9  | 739.9  |
| 10°   | 772.2  | 770.9  | 770.9  | 770.9  | 770.9  | 770.9  | 772.2  | 772.2  | 772.2  | 770.9  | 770.9  |
| 12.5° | 811.6  | 810.3  | 811.6  | 811.6  | 813.1  | 813.1  | 813.1  | 813.1  | 813.1  | 813.1  | 811.6  |
| 15°   | 859.5  | 859.5  | 859.5  | 860.8  | 863.7  | 863.7  | 862.3  | 863.7  | 863.7  | 863.7  | 863.7  |
| 17.5° | 913.0  | 915.8  | 913.0  | 914.3  | 915.8  | 914.3  | 917.1  | 918.5  | 920.0  | 918.5  | 914.3  |
| 20°   | 967.8  | 969.2  | 969.2  | 969.2  | 969.2  | 972.0  | 973.4  | 973.4  | 977.6  | 976.2  | 974.8  |
| 22.5° | 1019.8 | 1022.6 | 1022.6 | 1024.0 | 1024.0 | 1028.3 | 1028.3 | 1028.3 | 1031.1 | 1033.9 | 1031.1 |
| 25°   | 1074.7 | 1073.3 | 1073.3 | 1076.1 | 1077.5 | 1083.1 | 1083.1 | 1085.9 | 1090.2 | 1091.6 | 1088.7 |
| 27.5° | 1123.9 | 1122.5 | 1122.5 | 1126.7 | 1128.1 | 1135.1 | 1135.1 | 1140.8 | 1143.6 | 1145.0 | 1142.2 |
| 30°   | 1176.0 | 1176.0 | 1174.5 | 1178.8 | 1183.0 | 1188.6 | 1191.4 | 1197.1 | 1201.2 | 1202.7 | 1199.9 |
| 32.5° | 1237.8 | 1235.0 | 1236.5 | 1239.3 | 1242.1 | 1247.7 | 1251.9 | 1259.0 | 1264.6 | 1266.0 | 1263.2 |
| 35°   | 1308.2 | 1303.9 | 1305.4 | 1308.2 | 1312.4 | 1320.8 | 1327.9 | 1332.1 | 1340.5 | 1343.3 | 1337.7 |
| 37.5° | 1385.6 | 1386.9 | 1385.6 | 1392.5 | 1399.6 | 1409.4 | 1417.9 | 1423.5 | 1432.0 | 1436.2 | 1432.0 |
| 40°   | 1495.2 | 1491.1 | 1495.2 | 1502.3 | 1513.6 | 1526.2 | 1543.1 | 1547.4 | 1555.8 | 1564.1 | 1554.3 |
| 42.5° | 1637.3 | 1634.5 | 1644.4 | 1650.1 | 1662.7 | 1676.7 | 1697.8 | 1709.1 | 1721.8 | 1727.4 | 1719.0 |
| 45°   | 1823.0 | 1823.0 | 1834.3 | 1835.6 | 1855.3 | 1873.7 | 1903.2 | 1917.3 | 1941.1 | 1941.1 | 1941.1 |
| 47.5° | 2028.4 | 2036.8 | 2043.8 | 2057.9 | 2072.0 | 2105.8 | 2135.3 | 2166.2 | 2188.7 | 2191.6 | 2187.4 |
| 50°   | 2240.8 | 2249.2 | 2270.4 | 2290.1 | 2320.9 | 2363.2 | 2395.5 | 2436.3 | 2456.1 | 2472.8 | 2467.3 |
| 52.5° | 2475.8 | 2477.1 | 2502.4 | 2527.8 | 2572.7 | 2619.2 | 2671.2 | 2713.5 | 2748.6 | 2764.0 | 2751.4 |
| 55°   | 2733.2 | 2736.0 | 2758.4 | 2785.2 | 2835.9 | 2889.2 | 2954.0 | 2997.6 | 3042.6 | 3070.7 | 3049.6 |
| 57.5° | 3011.6 | 3013.1 | 3035.5 | 3067.9 | 3128.4 | 3181.9 | 3243.7 | 3305.6 | 3347.9 | 3373.2 | 3359.1 |
| 60°   | 3319.7 | 3326.7 | 3343.6 | 3384.4 | 3442.1 | 3498.3 | 3560.2 | 3615.1 | 3664.4 | 3691.1 | 3677.0 |
| 62.5° | 3648.8 | 3655.9 | 3679.8 | 3712.1 | 3762.8 | 3824.7 | 3883.7 | 3954.1 | 3994.9 | 4024.5 | 4003.3 |
| 65°   | 3869.7 | 3882.4 | 3920.3 | 3963.9 | 4038.4 | 4118.7 | 4187.6 | 4283.2 | 4332.4 | 4367.7 | 4348.0 |
| 67.5° | 3883.7 | 3890.8 | 3937.2 | 4003.3 | 4103.2 | 4224.1 | 4364.9 | 4514.0 | 4611.0 | 4657.4 | 4623.6 |
| 69°   | 3788.1 | 3797.9 | 3843.0 | 3917.5 | 4028.6 | 4169.3 | 4336.7 | 4522.4 | 4671.5 | 4740.4 | 4708.1 |
| 70°   | 3679.8 | 3700.9 | 3750.2 | 3831.7 | 3940.0 | 4087.8 | 4260.7 | 4459.1 | 4633.5 | 4727.8 | 4703.8 |
| 72.5° | 3451.9 | 3457.5 | 3489.9 | 3554.6 | 3637.6 | 3760.0 | 3923.1 | 4110.3 | 4276.3 | 4411.3 | 4431.0 |
| 75°   | 3063.7 | 3082.0 | 3105.9 | 3149.5 | 3191.7 | 3280.3 | 3390.1 | 3518.0 | 3615.1 | 3719.2 | 3723.4 |
| 77.5° | 2315.3 | 2370.3 | 2388.5 | 2398.3 | 2416.6 | 2486.9 | 2582.6 | 2693.8 | 2773.9 | 2790.8 | 2788.0 |
| 80°   | 1039.5 | 1112.6 | 1129.5 | 1209.7 | 1259.0 | 1375.8 | 1522.0 | 1692.2 | 1806.1 | 1818.8 | 1787.9 |
| 82.5° | 203.9  | 218.0  | 254.6  | 317.9  | 433.3  | 502.2  | 597.8  | 717.4  | 827.2  | 890.4  | 852.4  |
| 85°   | 67.6   | 71.7   | 83.0   | 91.4   | 105.5  | 119.6  | 144.9  | 180.0  | 223.6  | 247.6  | 220.8  |
| 87.5° | 26.7   | 26.7   | 31.0   | 33.8   | 36.6   | 36.6   | 36.6   | 33.8   | 32.3   | 26.7   | 23.9   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  | 697.7  |
| 2.5°  | 702.0  | 702.0  | 702.0  | 702.0  | 702.0  | 702.0  | 702.0  | 702.0  |
| 5°    | 717.4  | 716.0  | 716.0  | 714.6  | 714.6  | 714.6  | 714.6  | 714.6  |
| 7.5°  | 738.4  | 737.1  | 735.6  | 737.1  | 735.6  | 735.6  | 735.6  | 735.6  |
| 10°   | 770.9  | 768.1  | 766.6  | 765.2  | 765.2  | 765.2  | 763.8  | 763.8  |
| 12.5° | 808.8  | 808.8  | 807.5  | 806.0  | 803.2  | 804.6  | 803.2  | 800.4  |
| 15°   | 860.8  | 858.0  | 856.7  | 855.2  | 852.4  | 852.4  | 852.4  | 851.0  |
| 17.5° | 913.0  | 910.1  | 910.1  | 905.9  | 904.5  | 904.5  | 904.5  | 905.9  |
| 20°   | 970.6  | 966.3  | 963.5  | 960.7  | 957.9  | 959.4  | 956.5  | 959.4  |
| 22.5° | 1028.3 | 1022.6 | 1019.8 | 1015.6 | 1011.4 | 1011.4 | 1009.9 | 1007.2 |
| 25°   | 1084.6 | 1077.5 | 1074.7 | 1070.5 | 1064.9 | 1064.9 | 1062.1 | 1059.2 |
| 27.5° | 1138.0 | 1131.0 | 1128.1 | 1119.7 | 1114.1 | 1112.6 | 1109.8 | 1108.4 |
| 30°   | 1197.1 | 1188.6 | 1184.4 | 1176.0 | 1167.6 | 1166.1 | 1161.9 | 1161.9 |
| 32.5° | 1259.0 | 1250.5 | 1247.7 | 1235.0 | 1228.0 | 1228.0 | 1225.2 | 1222.4 |
| 35°   | 1336.3 | 1323.6 | 1320.8 | 1308.2 | 1298.3 | 1298.3 | 1295.5 | 1296.9 |
| 37.5° | 1427.8 | 1417.9 | 1408.1 | 1398.2 | 1386.9 | 1385.6 | 1382.7 | 1379.9 |
| 40°   | 1550.2 | 1538.9 | 1527.7 | 1513.6 | 1503.7 | 1500.9 | 1496.7 | 1495.2 |
| 42.5° | 1713.3 | 1702.1 | 1679.6 | 1668.3 | 1658.4 | 1650.1 | 1648.6 | 1647.2 |
| 45°   | 1921.5 | 1907.5 | 1891.9 | 1870.9 | 1858.2 | 1839.9 | 1837.1 | 1830.1 |
| 47.5° | 2171.9 | 2145.2 | 2118.4 | 2100.1 | 2080.4 | 2059.4 | 2055.1 | 2043.8 |
| 50°   | 2437.7 | 2416.6 | 2371.6 | 2342.1 | 2311.1 | 2290.1 | 2276.0 | 2271.7 |
| 52.5° | 2723.3 | 2683.9 | 2638.9 | 2599.5 | 2554.5 | 2526.3 | 2501.0 | 2494.0 |
| 55°   | 3021.5 | 2965.2 | 2908.9 | 2862.5 | 2817.5 | 2783.7 | 2759.9 | 2748.6 |
| 57.5° | 3319.7 | 3257.8 | 3196.0 | 3145.3 | 3107.3 | 3063.7 | 3039.8 | 3034.2 |
| 60°   | 3630.6 | 3571.5 | 3508.2 | 3457.5 | 3411.1 | 3373.2 | 3359.1 | 3332.3 |
| 62.5° | 3959.7 | 3897.8 | 3838.8 | 3789.5 | 3730.5 | 3703.7 | 3679.8 | 3664.4 |
| 65°   | 4283.2 | 4211.5 | 4137.0 | 4084.9 | 4025.8 | 3987.9 | 3958.3 | 3937.2 |
| 67.5° | 4533.7 | 4425.3 | 4325.5 | 4238.2 | 4158.0 | 4099.0 | 4061.0 | 4041.3 |
| 69°   | 4603.9 | 4468.9 | 4340.9 | 4226.9 | 4132.7 | 4066.6 | 4024.5 | 4004.8 |
| 70°   | 4595.5 | 4446.4 | 4305.8 | 4180.5 | 4077.9 | 4007.6 | 3966.7 | 3930.2 |
| 72.5° | 4335.3 | 4198.9 | 4042.7 | 3906.3 | 3813.5 | 3745.9 | 3705.1 | 3685.4 |
| 75°   | 3699.5 | 3608.1 | 3495.5 | 3390.1 | 3322.5 | 3283.1 | 3232.4 | 3233.9 |
| 77.5° | 2693.8 | 2696.6 | 2620.6 | 2512.2 | 2436.3 | 2422.3 | 2399.8 | 2377.2 |
| 80°   | 1671.1 | 1537.5 | 1450.3 | 1333.5 | 1247.7 | 1173.2 | 1140.8 | 1070.5 |
| 82.5° | 770.9  | 602.1  | 467.0  | 353.1  | 271.5  | 212.4  | 185.7  | 151.9  |
| 85°   | 171.6  | 130.8  | 108.3  | 87.3   | 74.5   | 68.9   | 56.3   | 52.0   |
| 87.5° | 23.9   | 21.1   | 19.7   | 18.2   | 15.4   | 11.3   | 8.4    | 7.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)