

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: P147651

Luminaire Tested: **VXM-E04-LED-E1-5WQ-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147651  
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: VXM-E04-LED-E1-5WQ-7050  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (84) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13067.6 lumens  
Efficiency: N/A  
Efficacy: 134.4 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): 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: 25 FT



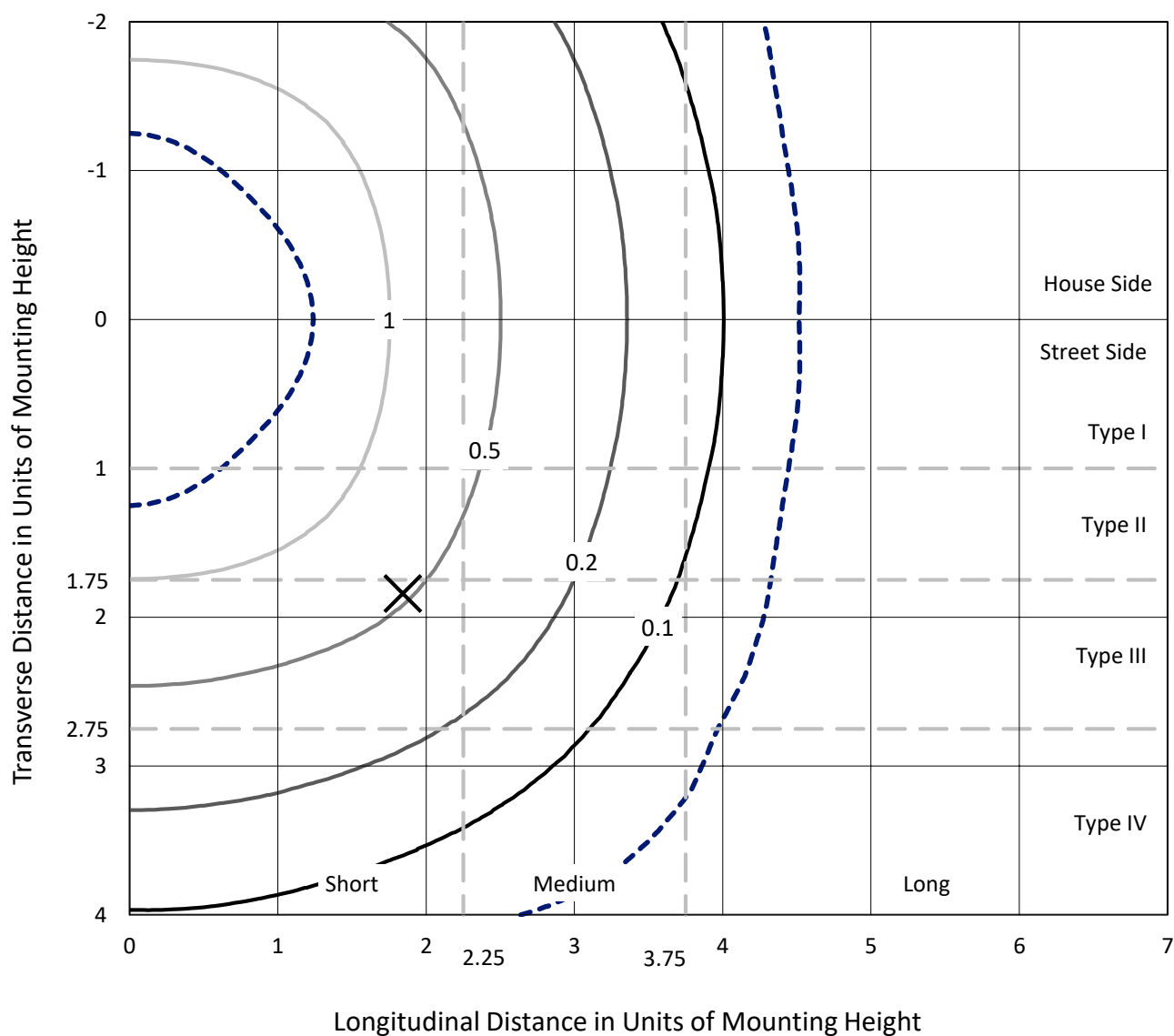
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

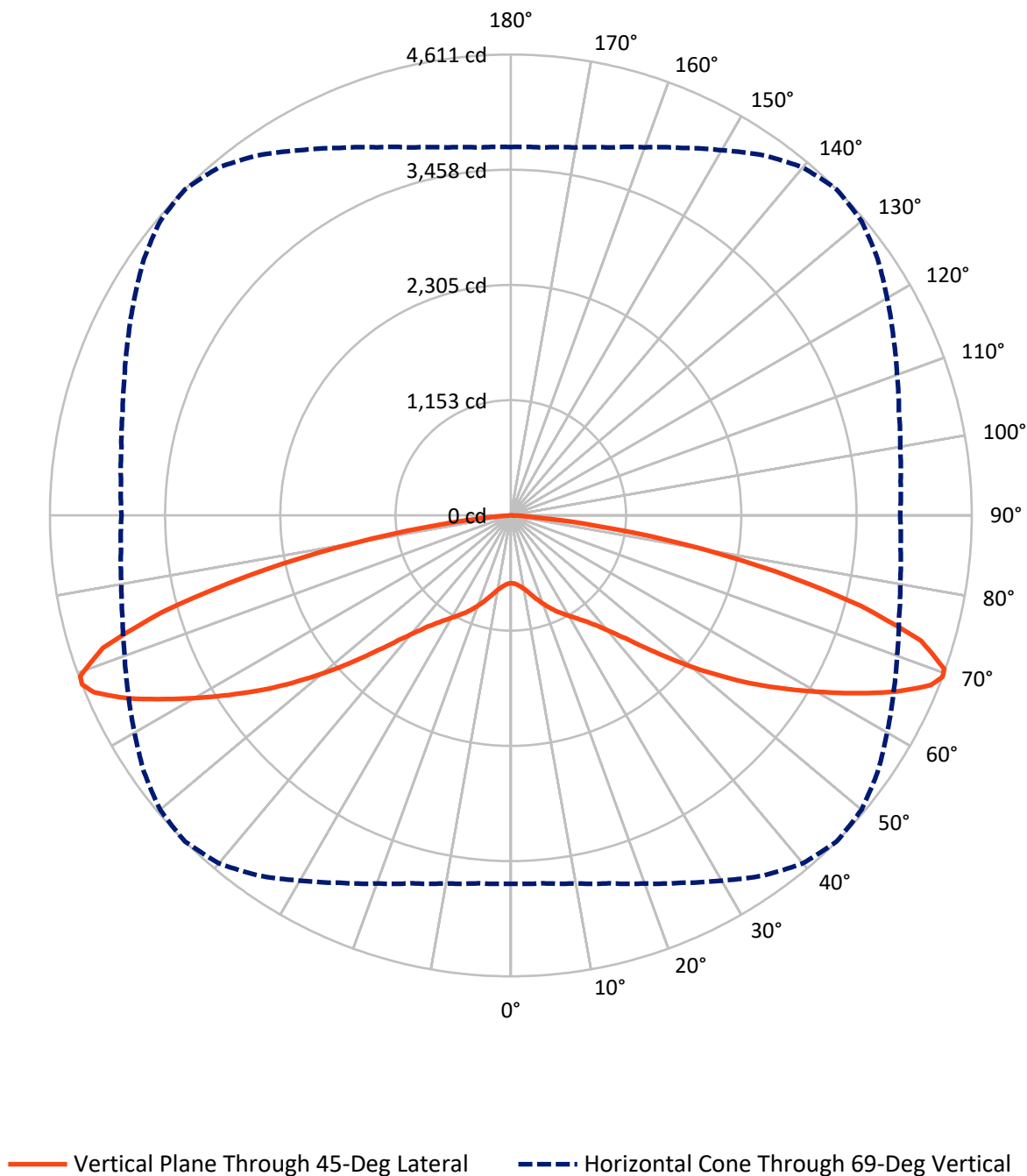


Based on 20 foot mounting height. Maximum calculated value = 2 fc  
Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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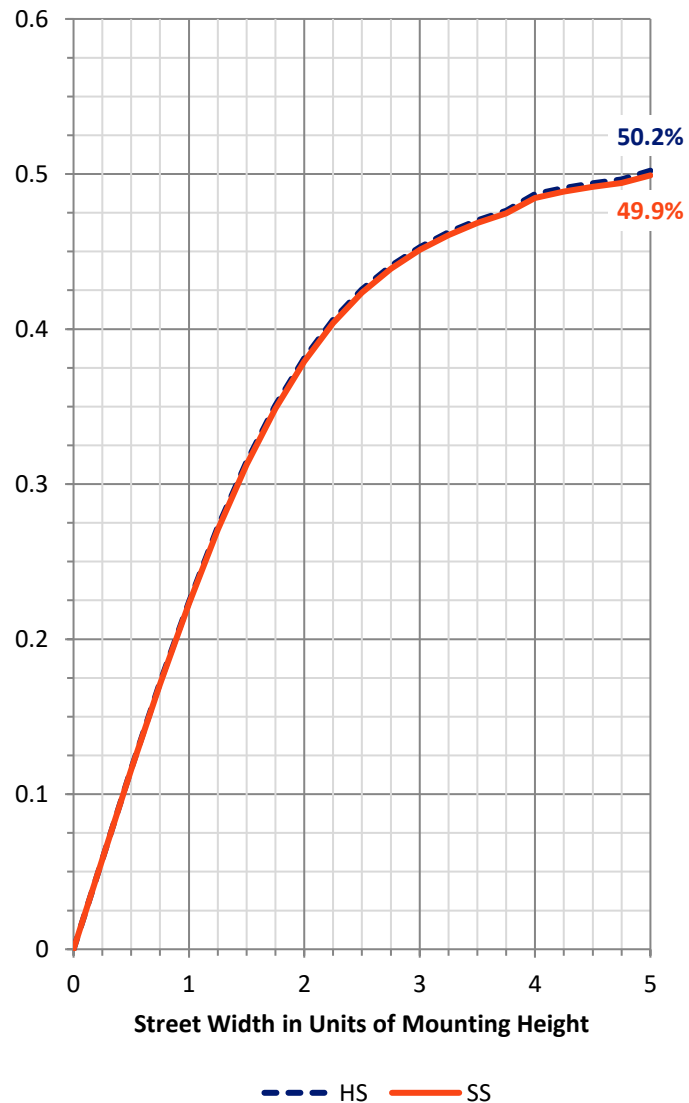
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6533.8   | 0.0    | 6533.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6533.8   | 0.0    | 6533.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13067.6  | 0.0    | 13067.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 68.2    | 0.5       |
| 10°-20°   | 240.6   | 1.8       |
| 20°-30°   | 487.2   | 3.7       |
| 30°-40°   | 816.9   | 6.3       |
| 40°-50°   | 1440.9  | 11.0      |
| 50°-60°   | 2540.9  | 19.4      |
| 60°-70°   | 3879.3  | 29.7      |
| 70°-80°   | 3241.5  | 24.8      |
| 80°-90°   | 352.2   | 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°    | 13067.6 | 100.0     |
| 0°-180°   | 13067.6 | 100.0     |

**Coefficient of Utilization**



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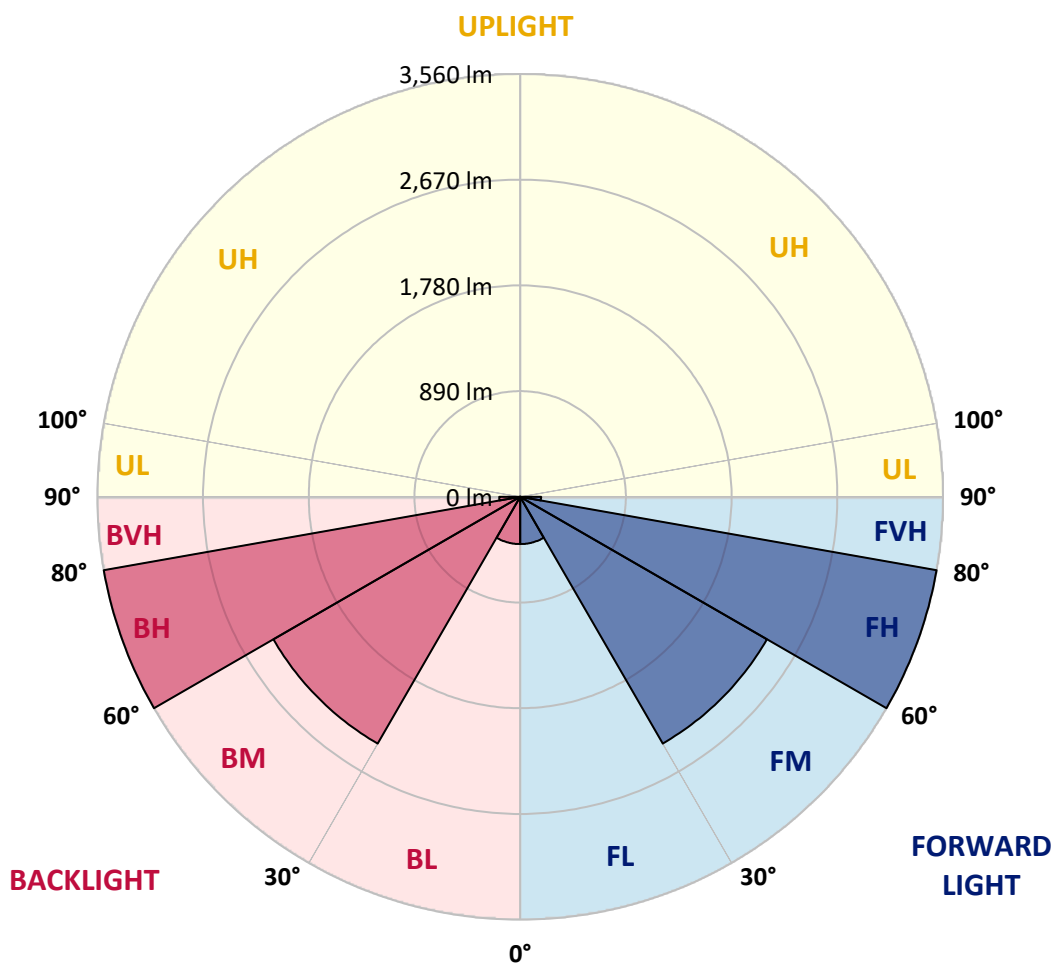
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 398.0  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 2399.3 | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 3560.4 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 176.1  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 398.0  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2399.3 | 18.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3560.4 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 176.1  | 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°    | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  |
| 2.5°  | 684.1  | 685.4  | 684.1  | 684.1  | 684.1  | 684.1  | 684.1  | 682.7  | 682.7  | 682.7  | 684.1  |
| 5°    | 697.8  | 699.1  | 697.8  | 699.1  | 699.1  | 699.1  | 699.1  | 697.8  | 697.8  | 697.8  | 697.8  |
| 7.5°  | 719.6  | 719.6  | 719.6  | 721.0  | 719.6  | 719.6  | 721.0  | 719.6  | 719.6  | 719.6  | 719.6  |
| 10°   | 751.1  | 749.7  | 749.7  | 749.7  | 749.7  | 749.7  | 751.1  | 751.1  | 751.1  | 749.7  | 749.7  |
| 12.5° | 789.4  | 788.0  | 789.4  | 789.4  | 790.8  | 790.8  | 790.8  | 790.8  | 790.8  | 790.8  | 789.4  |
| 15°   | 835.9  | 835.9  | 835.9  | 837.3  | 840.0  | 840.0  | 838.7  | 840.0  | 840.0  | 840.0  | 840.0  |
| 17.5° | 887.9  | 890.7  | 887.9  | 889.3  | 890.7  | 889.3  | 892.0  | 893.4  | 894.8  | 893.4  | 889.3  |
| 20°   | 941.3  | 942.6  | 942.6  | 942.6  | 942.6  | 945.4  | 946.8  | 946.8  | 950.9  | 949.5  | 948.1  |
| 22.5° | 991.9  | 994.6  | 994.6  | 996.0  | 996.0  | 1000.1 | 1000.1 | 1000.1 | 1002.8 | 1005.6 | 1002.8 |
| 25°   | 1045.3 | 1043.9 | 1043.9 | 1046.6 | 1048.0 | 1053.5 | 1053.5 | 1056.2 | 1060.3 | 1061.7 | 1058.9 |
| 27.5° | 1093.1 | 1091.8 | 1091.8 | 1095.9 | 1097.2 | 1104.1 | 1104.1 | 1109.6 | 1112.3 | 1113.7 | 1110.9 |
| 30°   | 1143.8 | 1143.8 | 1142.4 | 1146.5 | 1150.6 | 1156.1 | 1158.8 | 1164.3 | 1168.4 | 1169.8 | 1167.0 |
| 32.5° | 1204.0 | 1201.2 | 1202.6 | 1205.3 | 1208.1 | 1213.5 | 1217.6 | 1224.5 | 1230.0 | 1231.3 | 1228.6 |
| 35°   | 1272.4 | 1268.3 | 1269.6 | 1272.4 | 1276.5 | 1284.7 | 1291.5 | 1295.6 | 1303.8 | 1306.6 | 1301.1 |
| 37.5° | 1347.6 | 1349.0 | 1347.6 | 1354.5 | 1361.3 | 1370.9 | 1379.1 | 1384.6 | 1392.8 | 1396.9 | 1392.8 |
| 40°   | 1454.3 | 1450.2 | 1454.3 | 1461.2 | 1472.1 | 1484.4 | 1500.9 | 1505.0 | 1513.2 | 1521.4 | 1511.8 |
| 42.5° | 1592.5 | 1589.8 | 1599.4 | 1604.8 | 1617.1 | 1630.8 | 1651.3 | 1662.3 | 1674.6 | 1680.1 | 1671.9 |
| 45°   | 1773.1 | 1773.1 | 1784.1 | 1785.4 | 1804.6 | 1822.4 | 1851.1 | 1864.8 | 1888.0 | 1888.0 | 1888.0 |
| 47.5° | 1972.9 | 1981.1 | 1987.9 | 2001.6 | 2015.3 | 2048.1 | 2076.8 | 2106.9 | 2128.8 | 2131.6 | 2127.5 |
| 50°   | 2179.4 | 2187.7 | 2208.2 | 2227.3 | 2257.4 | 2298.5 | 2329.9 | 2369.6 | 2388.8 | 2405.2 | 2399.7 |
| 52.5° | 2407.9 | 2409.3 | 2433.9 | 2458.5 | 2502.3 | 2547.5 | 2598.1 | 2639.1 | 2673.3 | 2688.4 | 2676.1 |
| 55°   | 2658.3 | 2661.0 | 2682.9 | 2708.9 | 2758.2 | 2810.2 | 2873.1 | 2915.5 | 2959.3 | 2986.7 | 2966.1 |
| 57.5° | 2929.2 | 2930.6 | 2952.4 | 2983.9 | 3042.7 | 3094.7 | 3154.9 | 3215.1 | 3256.2 | 3280.8 | 3267.1 |
| 60°   | 3228.8 | 3235.7 | 3252.1 | 3291.7 | 3347.8 | 3402.6 | 3462.8 | 3516.1 | 3564.0 | 3590.0 | 3576.3 |
| 62.5° | 3549.0 | 3555.8 | 3579.1 | 3610.5 | 3659.8 | 3720.0 | 3777.4 | 3845.8 | 3885.5 | 3914.3 | 3893.7 |
| 65°   | 3763.8 | 3776.1 | 3813.0 | 3855.4 | 3927.9 | 4005.9 | 4073.0 | 4166.0 | 4213.9 | 4248.1 | 4228.9 |
| 67.5° | 3777.4 | 3784.3 | 3829.4 | 3893.7 | 3990.9 | 4108.5 | 4245.3 | 4390.4 | 4484.8 | 4529.9 | 4497.1 |
| 69°   | 3684.4 | 3694.0 | 3737.8 | 3810.3 | 3918.4 | 4055.2 | 4218.0 | 4398.6 | 4543.6 | 4610.6 | 4579.2 |
| 70°   | 3579.1 | 3599.6 | 3647.5 | 3726.8 | 3832.2 | 3975.8 | 4144.1 | 4337.0 | 4506.7 | 4598.3 | 4575.1 |
| 72.5° | 3357.4 | 3362.9 | 3394.4 | 3457.3 | 3538.0 | 3657.0 | 3815.7 | 3997.7 | 4159.1 | 4290.5 | 4309.6 |
| 75°   | 2979.8 | 2997.6 | 3020.9 | 3063.3 | 3104.3 | 3190.5 | 3297.2 | 3421.7 | 3516.1 | 3617.4 | 3621.5 |
| 77.5° | 2252.0 | 2305.3 | 2323.1 | 2332.7 | 2350.5 | 2418.9 | 2511.9 | 2620.0 | 2698.0 | 2714.4 | 2711.7 |
| 80°   | 1011.1 | 1082.2 | 1098.6 | 1176.6 | 1224.5 | 1338.0 | 1480.3 | 1645.9 | 1756.7 | 1769.0 | 1738.9 |
| 82.5° | 198.4  | 212.1  | 247.6  | 309.2  | 421.4  | 488.4  | 581.5  | 697.8  | 804.5  | 866.0  | 829.1  |
| 85°   | 65.7   | 69.8   | 80.7   | 88.9   | 102.6  | 116.3  | 140.9  | 175.1  | 217.5  | 240.8  | 214.8  |
| 87.5° | 26.0   | 26.0   | 30.1   | 32.8   | 35.6   | 35.6   | 35.6   | 32.8   | 31.5   | 26.0   | 23.3   |
| 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°    | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  | 678.6  |
| 2.5°  | 682.7  | 682.7  | 682.7  | 682.7  | 682.7  | 682.7  | 682.7  | 682.7  |
| 5°    | 697.8  | 696.4  | 696.4  | 695.0  | 695.0  | 695.0  | 695.0  | 695.0  |
| 7.5°  | 718.3  | 716.9  | 715.5  | 716.9  | 715.5  | 715.5  | 715.5  | 715.5  |
| 10°   | 749.7  | 747.0  | 745.6  | 744.3  | 744.3  | 744.3  | 742.9  | 742.9  |
| 12.5° | 786.7  | 786.7  | 785.3  | 783.9  | 781.2  | 782.6  | 781.2  | 778.5  |
| 15°   | 837.3  | 834.6  | 833.2  | 831.8  | 829.1  | 829.1  | 829.1  | 827.7  |
| 17.5° | 887.9  | 885.2  | 885.2  | 881.1  | 879.7  | 879.7  | 879.7  | 881.1  |
| 20°   | 944.0  | 939.9  | 937.2  | 934.4  | 931.7  | 933.1  | 930.3  | 933.1  |
| 22.5° | 1000.1 | 994.6  | 991.9  | 987.8  | 983.7  | 983.7  | 982.3  | 979.6  |
| 25°   | 1054.8 | 1048.0 | 1045.3 | 1041.2 | 1035.7 | 1035.7 | 1032.9 | 1030.2 |
| 27.5° | 1106.8 | 1100.0 | 1097.2 | 1089.0 | 1083.6 | 1082.2 | 1079.5 | 1078.1 |
| 30°   | 1164.3 | 1156.1 | 1152.0 | 1143.8 | 1135.6 | 1134.2 | 1130.1 | 1130.1 |
| 32.5° | 1224.5 | 1216.3 | 1213.5 | 1201.2 | 1194.4 | 1194.4 | 1191.7 | 1188.9 |
| 35°   | 1299.7 | 1287.4 | 1284.7 | 1272.4 | 1262.8 | 1262.8 | 1260.1 | 1261.4 |
| 37.5° | 1388.7 | 1379.1 | 1369.5 | 1359.9 | 1349.0 | 1347.6 | 1344.9 | 1342.1 |
| 40°   | 1507.7 | 1496.7 | 1485.8 | 1472.1 | 1462.5 | 1459.8 | 1455.7 | 1454.3 |
| 42.5° | 1666.4 | 1655.5 | 1633.6 | 1622.6 | 1613.0 | 1604.8 | 1603.5 | 1602.1 |
| 45°   | 1868.9 | 1855.2 | 1840.1 | 1819.6 | 1807.3 | 1789.5 | 1786.8 | 1780.0 |
| 47.5° | 2112.4 | 2086.4 | 2060.4 | 2042.6 | 2023.5 | 2003.0 | 1998.9 | 1987.9 |
| 50°   | 2371.0 | 2350.5 | 2306.7 | 2278.0 | 2247.9 | 2227.3 | 2213.7 | 2209.5 |
| 52.5° | 2648.7 | 2610.4 | 2566.6 | 2528.3 | 2484.5 | 2457.2 | 2432.6 | 2425.7 |
| 55°   | 2938.8 | 2884.0 | 2829.3 | 2784.2 | 2740.4 | 2707.6 | 2684.3 | 2673.3 |
| 57.5° | 3228.8 | 3168.6 | 3108.4 | 3059.2 | 3022.2 | 2979.8 | 2956.6 | 2951.1 |
| 60°   | 3531.2 | 3473.7 | 3412.1 | 3362.9 | 3317.7 | 3280.8 | 3267.1 | 3241.1 |
| 62.5° | 3851.3 | 3791.1 | 3733.7 | 3685.8 | 3628.3 | 3602.3 | 3579.1 | 3564.0 |
| 65°   | 4166.0 | 4096.2 | 4023.7 | 3973.1 | 3915.6 | 3878.7 | 3849.9 | 3829.4 |
| 67.5° | 4409.5 | 4304.2 | 4207.0 | 4122.2 | 4044.2 | 3986.8 | 3949.8 | 3930.7 |
| 69°   | 4477.9 | 4346.6 | 4222.1 | 4111.3 | 4019.6 | 3955.3 | 3914.3 | 3895.1 |
| 70°   | 4469.7 | 4324.7 | 4187.9 | 4066.1 | 3966.2 | 3897.8 | 3858.2 | 3822.6 |
| 72.5° | 4216.6 | 4083.9 | 3932.0 | 3799.3 | 3709.0 | 3643.4 | 3603.7 | 3584.5 |
| 75°   | 3598.2 | 3509.3 | 3399.8 | 3297.2 | 3231.5 | 3193.2 | 3144.0 | 3145.4 |
| 77.5° | 2620.0 | 2622.7 | 2548.8 | 2443.5 | 2369.6 | 2355.9 | 2334.0 | 2312.2 |
| 80°   | 1625.4 | 1495.4 | 1410.6 | 1297.0 | 1213.5 | 1141.0 | 1109.6 | 1041.2 |
| 82.5° | 749.7  | 585.6  | 454.2  | 343.4  | 264.1  | 206.6  | 180.6  | 147.8  |
| 85°   | 166.9  | 127.2  | 105.3  | 84.8   | 72.5   | 67.0   | 54.7   | 50.6   |
| 87.5° | 23.3   | 20.5   | 19.2   | 17.8   | 15.0   | 10.9   | 8.2    | 6.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)