

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: P179998

Luminaire Tested: **ICM-E05-LED-E1-5MQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179998  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E05-LED-E1-5MQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14994.4 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Full 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

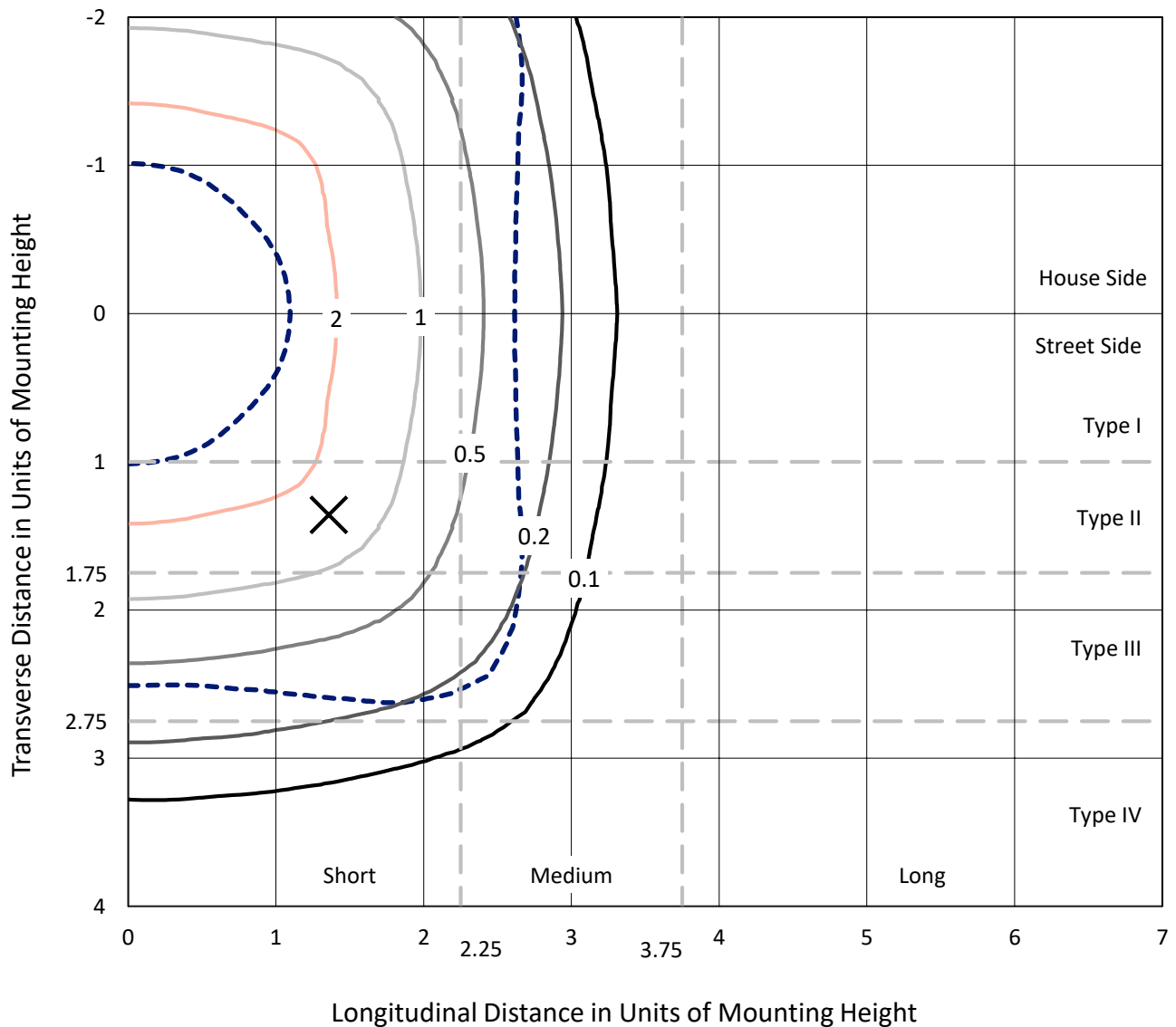


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### Iso-Footcandle Lines of Horizontal Illumination

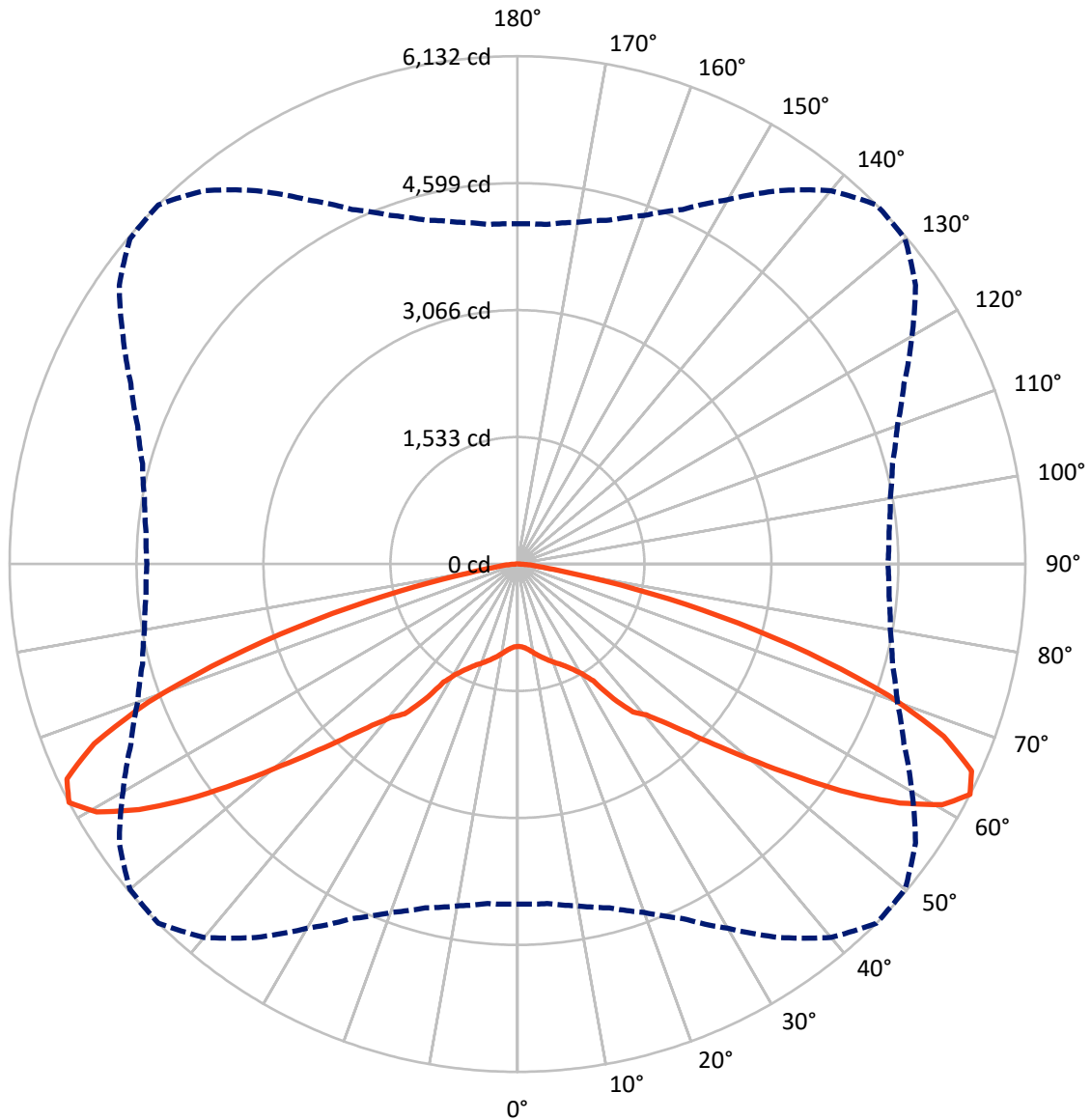
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7497.2   | 0.0    | 7497.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7497.2   | 0.0    | 7497.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14994.4  | 0.0    | 14994.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 99.7    | 0.7       |
| 10°-20°   | 337.2   | 2.2       |
| 20°-30°   | 651.9   | 4.3       |
| 30°-40°   | 1262.3  | 8.4       |
| 40°-50°   | 2279.2  | 15.2      |
| 50°-60°   | 3963.2  | 26.4      |
| 60°-70°   | 4499.2  | 30.0      |
| 70°-80°   | 1744.3  | 11.6      |
| 80°-90°   | 157.4   | 1.0       |
| 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°    | 14994.4 | 100.0     |
| 0°-180°   | 14994.4 | 100.0     |



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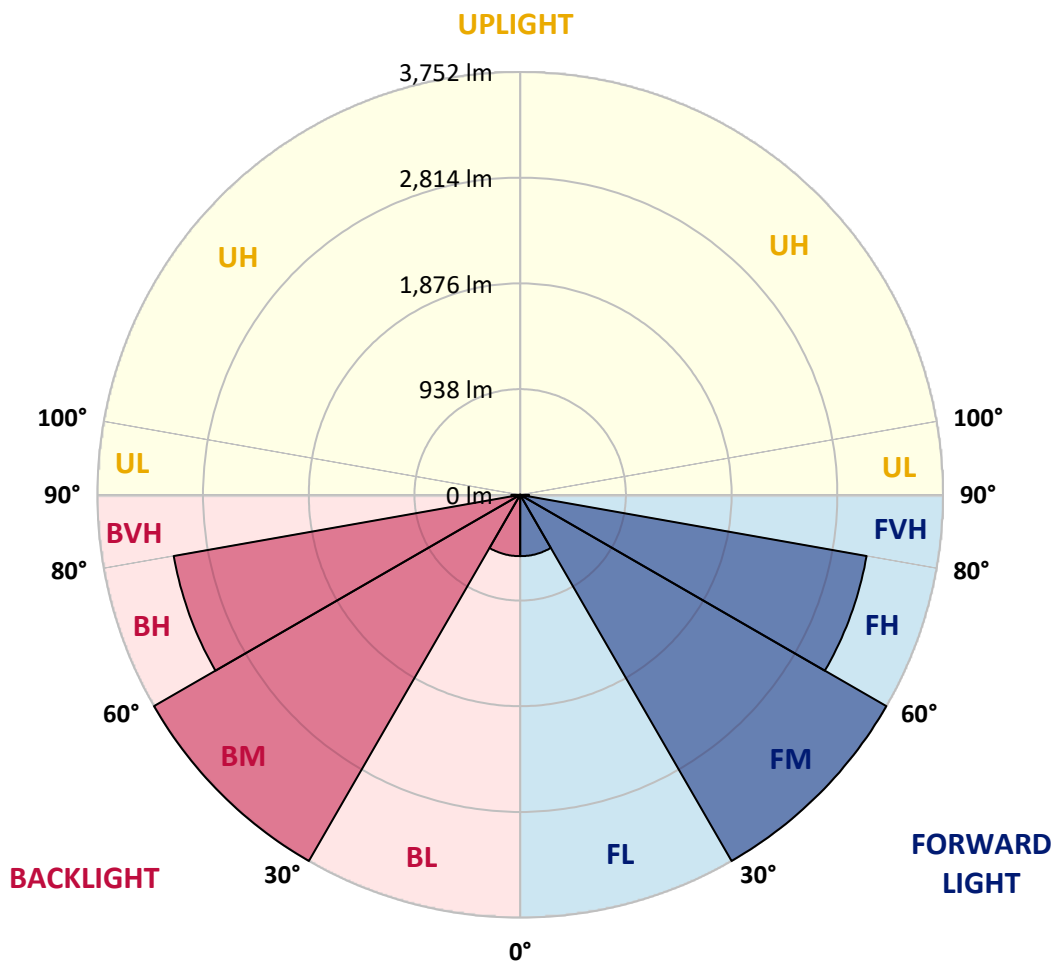
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 544.4  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 3752.3 | 25.0      |                         |      |         |
| FH   | (60°-80°)   | 3121.8 | 20.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.7   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 544.4  | 3.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3752.3 | 25.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3121.8 | 20.8      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 78.7   | 0.5       |                         |      | G1/100  |
| 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°    | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  |
| 2.5°  | 1001.5 | 1004.7 | 1003.9 | 1002.3 | 1002.3 | 1002.3 | 1001.5 | 999.3  | 998.4  | 1000.0 | 1001.5 |
| 5°    | 1024.8 | 1024.8 | 1024.8 | 1024.8 | 1023.3 | 1023.3 | 1021.8 | 1020.1 | 1020.9 | 1019.4 | 1018.6 |
| 7.5°  | 1060.5 | 1058.1 | 1058.1 | 1057.4 | 1057.3 | 1055.8 | 1053.5 | 1050.4 | 1051.2 | 1050.4 | 1049.7 |
| 10°   | 1102.3 | 1103.1 | 1100.8 | 1103.1 | 1099.3 | 1098.4 | 1095.4 | 1093.8 | 1093.0 | 1090.7 | 1090.7 |
| 12.5° | 1152.8 | 1150.3 | 1150.3 | 1148.8 | 1147.4 | 1145.7 | 1141.0 | 1140.3 | 1137.2 | 1135.6 | 1133.3 |
| 15°   | 1200.0 | 1199.3 | 1196.1 | 1193.0 | 1192.3 | 1190.7 | 1185.3 | 1182.1 | 1181.4 | 1177.5 | 1174.4 |
| 17.5° | 1247.3 | 1245.8 | 1241.9 | 1240.4 | 1237.2 | 1234.9 | 1230.2 | 1225.6 | 1223.3 | 1221.8 | 1217.9 |
| 20°   | 1297.7 | 1296.1 | 1292.3 | 1289.1 | 1285.2 | 1282.2 | 1275.2 | 1271.3 | 1269.0 | 1266.6 | 1263.6 |
| 22.5° | 1360.5 | 1357.4 | 1351.2 | 1345.7 | 1337.2 | 1334.1 | 1324.8 | 1319.4 | 1315.5 | 1312.4 | 1310.9 |
| 25°   | 1428.7 | 1429.4 | 1420.9 | 1414.0 | 1403.9 | 1395.4 | 1383.7 | 1377.5 | 1373.6 | 1370.5 | 1369.8 |
| 27.5° | 1514.0 | 1514.7 | 1507.0 | 1496.9 | 1481.4 | 1472.1 | 1456.6 | 1448.8 | 1446.5 | 1443.5 | 1442.6 |
| 30°   | 1648.8 | 1641.9 | 1628.7 | 1612.5 | 1598.4 | 1578.3 | 1555.8 | 1548.1 | 1540.3 | 1538.0 | 1538.1 |
| 32.5° | 1896.9 | 1893.0 | 1882.2 | 1841.9 | 1823.3 | 1781.4 | 1741.9 | 1719.4 | 1693.8 | 1681.4 | 1673.7 |
| 35°   | 2070.5 | 2069.0 | 2060.5 | 2046.5 | 2034.9 | 2026.4 | 2003.2 | 1999.3 | 1994.6 | 1994.6 | 2000.8 |
| 37.5° | 2198.4 | 2189.2 | 2187.6 | 2190.0 | 2186.8 | 2188.4 | 2207.0 | 2232.6 | 2254.2 | 2265.1 | 2263.6 |
| 40°   | 2387.6 | 2374.4 | 2382.2 | 2376.8 | 2369.8 | 2368.2 | 2374.4 | 2384.6 | 2394.6 | 2394.6 | 2392.3 |
| 42.5° | 2634.9 | 2641.1 | 2644.2 | 2621.7 | 2607.0 | 2603.2 | 2617.9 | 2614.7 | 2624.8 | 2620.9 | 2610.9 |
| 45°   | 3002.3 | 2998.4 | 2993.0 | 2966.0 | 2942.7 | 2924.0 | 2927.9 | 2922.4 | 2923.3 | 2917.0 | 2909.3 |
| 47.5° | 3372.9 | 3386.1 | 3363.6 | 3350.3 | 3324.0 | 3310.9 | 3321.7 | 3312.4 | 3330.3 | 3297.7 | 3282.3 |
| 50°   | 3732.6 | 3741.9 | 3734.2 | 3715.6 | 3715.6 | 3734.2 | 3747.4 | 3764.4 | 3789.2 | 3752.0 | 3696.2 |
| 52.5° | 4027.2 | 4034.9 | 4046.5 | 4062.0 | 4100.0 | 4139.6 | 4195.4 | 4255.1 | 4302.4 | 4295.4 | 4231.8 |
| 55°   | 4207.0 | 4216.3 | 4235.7 | 4289.1 | 4357.4 | 4461.2 | 4587.7 | 4726.4 | 4834.9 | 4887.7 | 4841.1 |
| 57.5° | 4267.5 | 4274.4 | 4327.1 | 4391.5 | 4497.7 | 4651.9 | 4863.7 | 5103.1 | 5311.7 | 5444.2 | 5423.3 |
| 60°   | 4253.5 | 4253.5 | 4307.0 | 4395.4 | 4544.2 | 4748.9 | 5048.1 | 5379.9 | 5699.2 | 5897.7 | 5868.2 |
| 62.5° | 4107.0 | 4114.8 | 4191.5 | 4297.7 | 4477.6 | 4722.4 | 5079.1 | 5503.1 | 5885.3 | 6131.8 | 6107.8 |
| 65°   | 3786.1 | 3791.5 | 3874.4 | 4000.8 | 4201.6 | 4491.6 | 4881.4 | 5351.2 | 5789.2 | 6026.4 | 5981.4 |
| 67.5° | 3267.5 | 3272.9 | 3340.3 | 3483.0 | 3695.4 | 3998.5 | 4419.4 | 4936.4 | 5365.1 | 5552.8 | 5417.9 |
| 70°   | 2599.3 | 2614.8 | 2658.2 | 2809.3 | 2970.6 | 3267.5 | 3655.1 | 4172.1 | 4576.8 | 4754.3 | 4605.4 |
| 72.5° | 1771.4 | 1810.9 | 1863.5 | 1997.7 | 2152.0 | 2398.4 | 2707.0 | 3142.6 | 3467.5 | 3673.0 | 3540.3 |
| 75°   | 997.7  | 1053.5 | 1069.8 | 1171.4 | 1298.4 | 1493.0 | 1718.6 | 2031.1 | 2359.0 | 2525.6 | 2366.0 |
| 77.5° | 431.1  | 476.7  | 496.9  | 544.2  | 643.4  | 724.8  | 862.1  | 1072.9 | 1326.3 | 1443.4 | 1251.9 |
| 80°   | 212.5  | 223.3  | 231.8  | 246.5  | 274.4  | 300.8  | 365.9  | 458.1  | 562.0  | 588.4  | 468.2  |
| 82.5° | 164.3  | 172.1  | 186.8  | 198.4  | 205.4  | 212.4  | 218.6  | 231.1  | 241.1  | 246.5  | 232.6  |
| 85°   | 115.5  | 125.6  | 141.9  | 155.1  | 162.8  | 168.2  | 173.7  | 177.6  | 168.3  | 153.5  | 161.3  |
| 87.5° | 30.2   | 39.5   | 55.1   | 59.7   | 67.4   | 71.3   | 69.8   | 72.1   | 65.1   | 47.3   | 52.7   |
| 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°    | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  | 995.4  |
| 2.5°  | 1000.8 | 1000.0 | 1000.8 | 1000.8 | 1000.8 | 1000.0 | 1000.0 | 1000.0 |
| 5°    | 1018.6 | 1018.6 | 1019.4 | 1017.9 | 1017.9 | 1018.6 | 1017.9 | 1017.0 |
| 7.5°  | 1048.8 | 1048.0 | 1048.1 | 1047.3 | 1048.0 | 1047.3 | 1047.3 | 1046.5 |
| 10°   | 1089.1 | 1087.6 | 1088.4 | 1086.1 | 1086.1 | 1085.2 | 1085.2 | 1085.3 |
| 12.5° | 1132.6 | 1130.2 | 1131.0 | 1128.8 | 1124.8 | 1125.6 | 1126.3 | 1125.6 |
| 15°   | 1174.4 | 1172.1 | 1169.8 | 1168.2 | 1166.0 | 1166.7 | 1166.7 | 1165.9 |
| 17.5° | 1217.1 | 1212.5 | 1211.6 | 1209.3 | 1208.6 | 1208.6 | 1208.6 | 1209.3 |
| 20°   | 1261.2 | 1258.1 | 1257.3 | 1255.1 | 1254.3 | 1256.6 | 1257.3 | 1255.8 |
| 22.5° | 1308.5 | 1307.0 | 1308.5 | 1307.0 | 1309.3 | 1310.9 | 1311.6 | 1310.1 |
| 25°   | 1368.2 | 1366.7 | 1368.9 | 1374.4 | 1377.5 | 1379.1 | 1382.9 | 1381.4 |
| 27.5° | 1445.0 | 1443.4 | 1448.8 | 1456.6 | 1461.2 | 1469.0 | 1472.8 | 1474.4 |
| 30°   | 1544.2 | 1551.2 | 1554.2 | 1569.8 | 1572.8 | 1585.3 | 1585.3 | 1590.7 |
| 32.5° | 1688.4 | 1701.6 | 1724.8 | 1748.8 | 1782.2 | 1806.2 | 1806.2 | 1818.6 |
| 35°   | 2004.7 | 2010.1 | 2027.9 | 2031.8 | 2038.7 | 2046.5 | 2038.7 | 2044.9 |
| 37.5° | 2247.3 | 2223.3 | 2206.2 | 2182.2 | 2167.5 | 2167.5 | 2168.9 | 2167.5 |
| 40°   | 2371.4 | 2362.1 | 2354.2 | 2334.2 | 2331.0 | 2330.2 | 2330.2 | 2333.3 |
| 42.5° | 2593.0 | 2570.5 | 2558.2 | 2541.1 | 2535.6 | 2534.2 | 2533.4 | 2534.9 |
| 45°   | 2881.4 | 2844.9 | 2811.6 | 2794.5 | 2779.8 | 2766.0 | 2770.6 | 2770.5 |
| 47.5° | 3217.1 | 3160.5 | 3106.3 | 3076.8 | 3051.2 | 3039.6 | 3031.8 | 3029.5 |
| 50°   | 3625.6 | 3546.5 | 3476.8 | 3421.7 | 3384.6 | 3383.7 | 3387.6 | 3362.8 |
| 52.5° | 4126.4 | 4001.5 | 3914.8 | 3840.4 | 3805.4 | 3801.5 | 3789.2 | 3775.2 |
| 55°   | 4681.4 | 4533.4 | 4390.0 | 4310.2 | 4264.4 | 4239.6 | 4224.8 | 4201.6 |
| 57.5° | 5253.5 | 5054.4 | 4848.0 | 4720.2 | 4639.6 | 4583.7 | 4554.3 | 4541.1 |
| 60°   | 5694.5 | 5422.5 | 5150.4 | 4945.0 | 4810.9 | 4727.9 | 4676.8 | 4655.8 |
| 62.5° | 5868.3 | 5499.3 | 5150.4 | 4880.7 | 4686.9 | 4572.1 | 4503.1 | 4472.9 |
| 65°   | 5661.2 | 5224.0 | 4827.2 | 4529.5 | 4313.1 | 4185.3 | 4110.2 | 4077.5 |
| 67.5° | 5083.0 | 4697.0 | 4265.1 | 3969.0 | 3746.5 | 3620.1 | 3538.8 | 3514.7 |
| 70°   | 4261.2 | 3866.7 | 3454.3 | 3190.0 | 2991.5 | 2888.4 | 2803.8 | 2793.8 |
| 72.5° | 3202.3 | 2862.1 | 2508.5 | 2289.9 | 2130.2 | 1959.7 | 1916.3 | 1938.0 |
| 75°   | 2052.8 | 1734.2 | 1419.4 | 1222.5 | 1076.8 | 914.0  | 851.2  | 866.7  |
| 77.5° | 972.1  | 752.7  | 543.4  | 420.2  | 352.7  | 301.6  | 288.4  | 280.7  |
| 80°   | 360.5  | 292.3  | 258.1  | 245.0  | 235.6  | 227.2  | 220.9  | 214.0  |
| 82.5° | 233.3  | 227.9  | 220.9  | 218.6  | 211.6  | 200.7  | 180.7  | 172.1  |
| 85°   | 174.4  | 174.4  | 165.1  | 165.9  | 160.5  | 146.5  | 127.9  | 117.9  |
| 87.5° | 51.2   | 45.8   | 41.9   | 38.8   | 38.0   | 34.0   | 24.8   | 21.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)