

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: P401729

Luminaire Tested: **ENC-SA1E-760-U-T2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-SA1E-760-U-T2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5323 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.2  
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

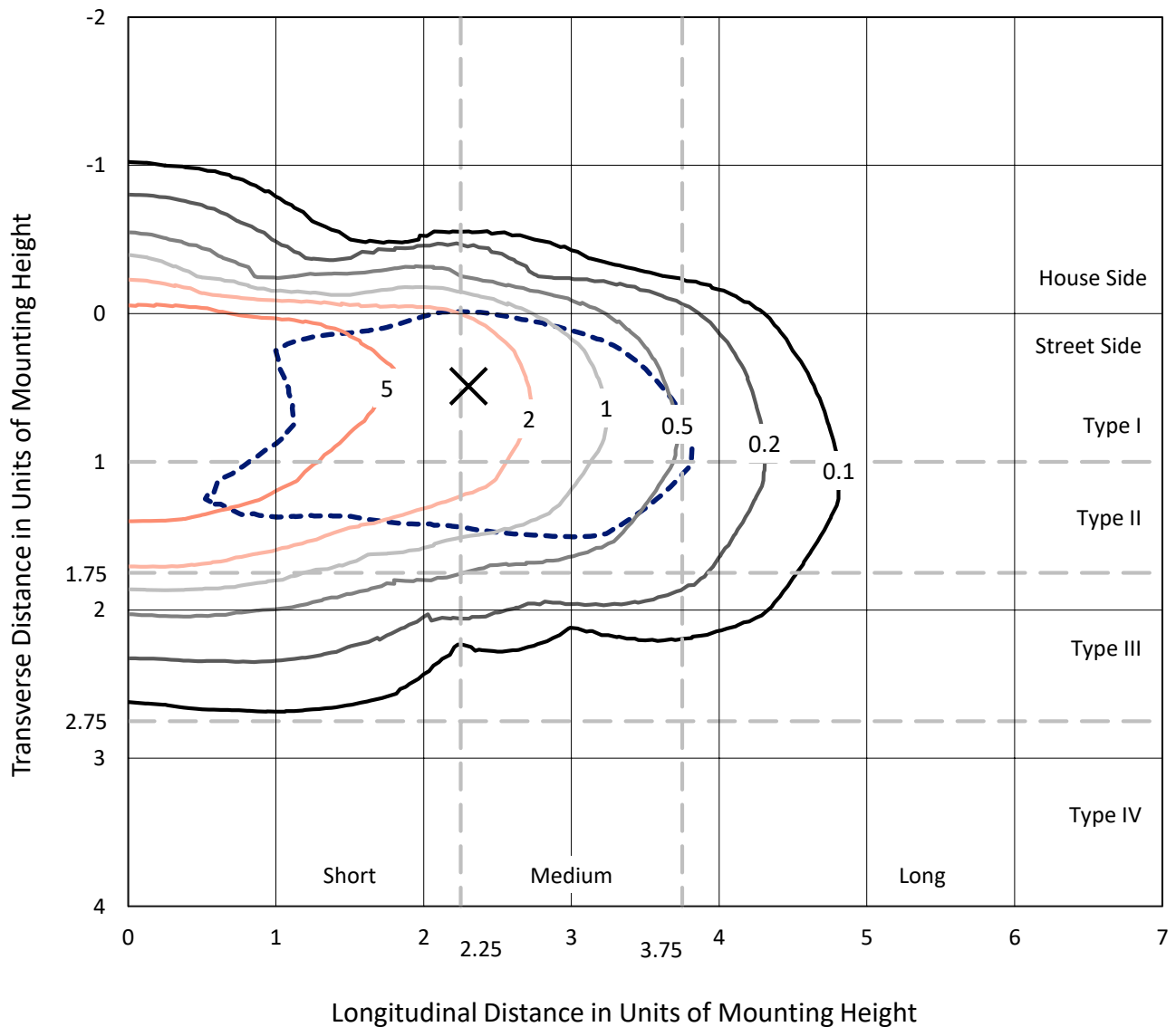


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

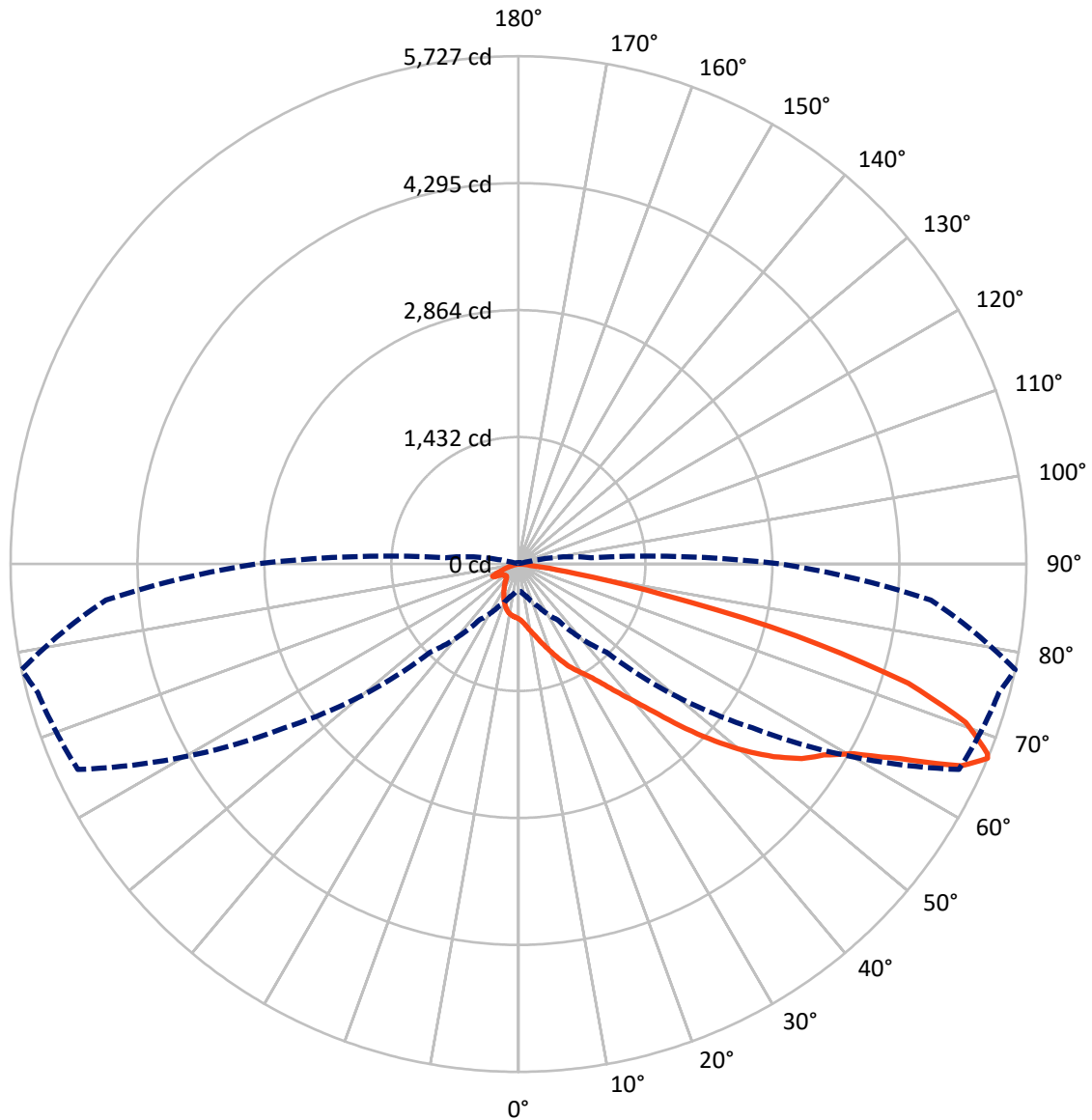


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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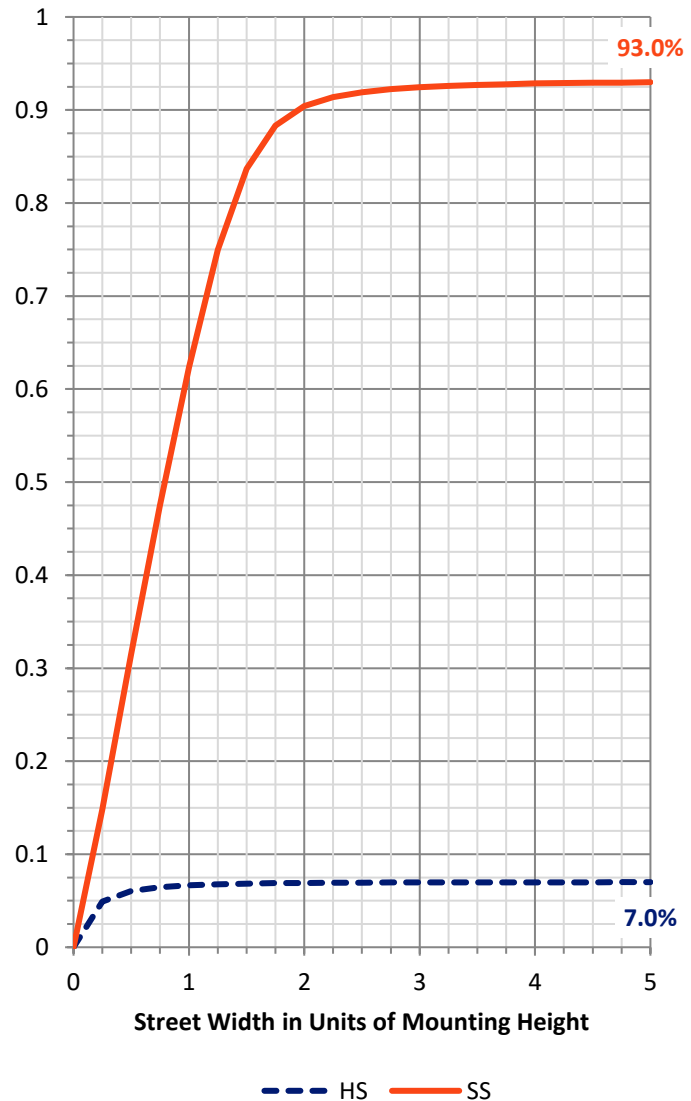
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 375.5    | 0.0    | 375.5  |
|                    | % Fixture | 7.1      | 0.0    | 7.1    |
| <b>Street Side</b> | Lumens    | 4947.4   | 0.0    | 4947.4 |
|                    | % Fixture | 92.9     | 0.0    | 92.9   |
| <b>Total</b>       | Lumens    | 5323.0   | 0.0    | 5323.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.6   | 1.1       |
| 10°-20°   | 170.6  | 3.2       |
| 20°-30°   | 301.5  | 5.7       |
| 30°-40°   | 531.6  | 10.0      |
| 40°-50°   | 913.6  | 17.2      |
| 50°-60°   | 1375.2 | 25.8      |
| 60°-70°   | 1353.3 | 25.4      |
| 70°-80°   | 591.3  | 11.1      |
| 80°-90°   | 26.2   | 0.5       |
| 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°    | 5323.0 | 100.0     |
| 0°-180°   | 5323.0 | 100.0     |



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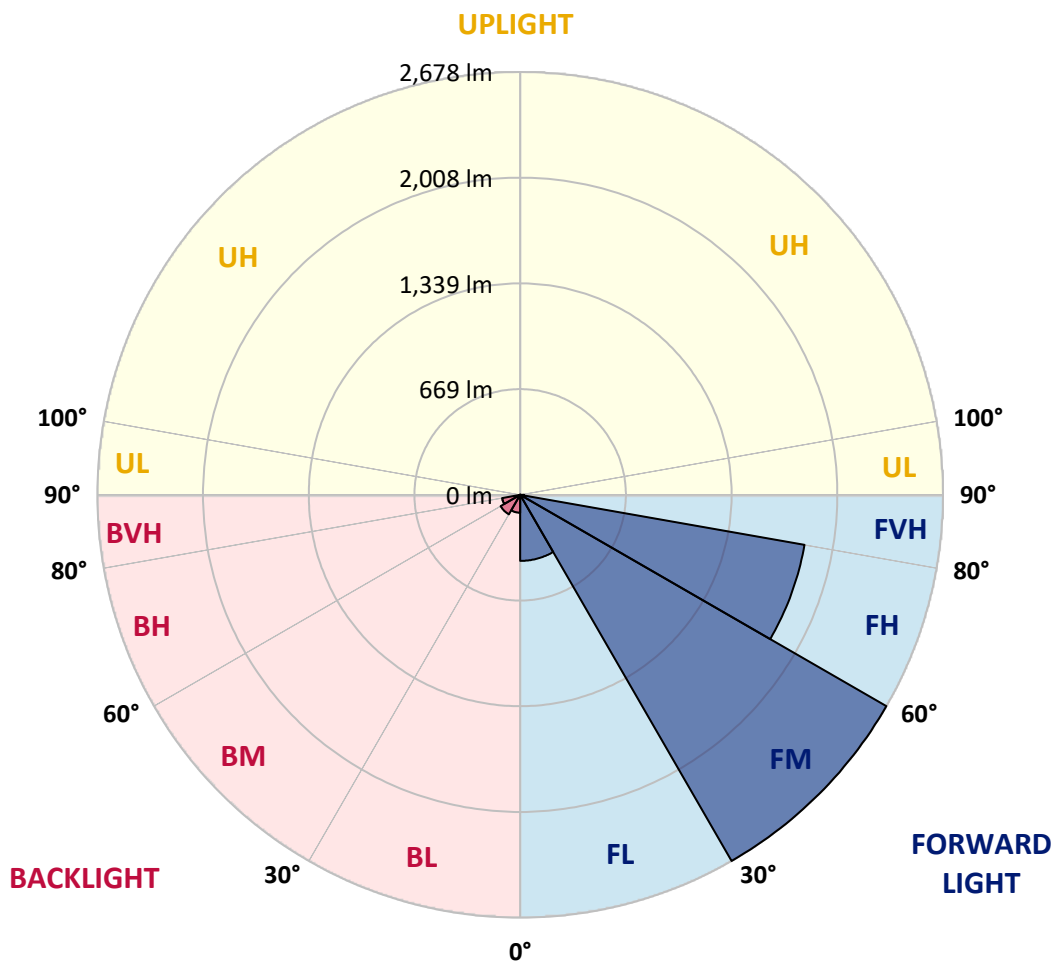
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 418.2  | 7.9       |                         |      |         |
| FM (30°-60°)   | 2677.5 | 50.3      |                         |      |         |
| FH (60°-80°)   | 1828.2 | 34.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 23.5   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 113.5  | 2.1       | B1/500                  |      |         |
| BM (30°-60°)   | 142.9  | 2.7       | B0/220                  |      |         |
| BH (60°-80°)   | 116.5  | 2.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.7    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  |
| 2.5°  | 709.0  | 712.0  | 708.0  | 705.0  | 697.0  | 687.0  | 677.0  | 662.0  | 646.0  | 640.0  | 630.0  |
| 5°    | 796.0  | 796.0  | 796.0  | 788.0  | 781.0  | 762.0  | 739.0  | 716.0  | 686.0  | 675.0  | 652.0  |
| 7.5°  | 842.0  | 843.0  | 846.0  | 846.0  | 842.0  | 829.0  | 804.0  | 778.0  | 733.0  | 718.0  | 681.0  |
| 10°   | 847.0  | 851.0  | 859.0  | 871.0  | 880.0  | 887.0  | 872.0  | 844.0  | 790.0  | 772.0  | 718.0  |
| 12.5° | 834.0  | 836.0  | 849.0  | 871.0  | 900.0  | 929.0  | 930.0  | 913.0  | 853.0  | 828.0  | 763.0  |
| 15°   | 804.0  | 807.0  | 826.0  | 861.0  | 906.0  | 958.0  | 988.0  | 983.0  | 927.0  | 898.0  | 813.0  |
| 17.5° | 756.0  | 759.0  | 783.0  | 835.0  | 901.0  | 977.0  | 1041.1 | 1066.1 | 1000.0 | 972.0  | 864.0  |
| 20°   | 754.0  | 755.0  | 764.0  | 803.0  | 881.0  | 988.0  | 1093.1 | 1152.1 | 1089.1 | 1059.1 | 924.0  |
| 22.5° | 882.0  | 874.0  | 854.0  | 829.0  | 863.0  | 985.0  | 1140.1 | 1243.1 | 1199.1 | 1152.1 | 993.0  |
| 25°   | 1025.1 | 1028.1 | 1006.0 | 947.0  | 904.0  | 980.0  | 1176.1 | 1346.1 | 1302.1 | 1255.1 | 1064.1 |
| 27.5° | 1175.1 | 1170.1 | 1151.1 | 1097.1 | 1025.1 | 1016.1 | 1202.1 | 1429.1 | 1401.1 | 1344.1 | 1127.1 |
| 30°   | 1321.1 | 1317.1 | 1303.1 | 1248.1 | 1170.1 | 1109.1 | 1222.1 | 1504.1 | 1495.1 | 1432.1 | 1178.1 |
| 32.5° | 1488.1 | 1495.1 | 1477.1 | 1405.1 | 1310.1 | 1235.1 | 1265.1 | 1583.1 | 1609.1 | 1532.1 | 1231.1 |
| 35°   | 1682.1 | 1682.1 | 1645.1 | 1579.1 | 1481.1 | 1376.1 | 1351.1 | 1670.1 | 1754.1 | 1671.1 | 1315.1 |
| 37.5° | 1842.1 | 1855.1 | 1833.1 | 1738.1 | 1646.1 | 1536.1 | 1482.1 | 1777.1 | 1933.1 | 1849.1 | 1428.1 |
| 40°   | 1968.1 | 1990.1 | 1991.1 | 1897.1 | 1812.1 | 1740.1 | 1665.1 | 1928.1 | 2158.1 | 2050.1 | 1563.1 |
| 42.5° | 2085.1 | 2089.1 | 2106.1 | 2052.1 | 1967.1 | 1948.1 | 1871.1 | 2107.1 | 2439.1 | 2312.1 | 1743.1 |
| 45°   | 2234.1 | 2242.1 | 2232.1 | 2192.1 | 2119.1 | 2144.1 | 2101.1 | 2334.1 | 2755.1 | 2648.1 | 1955.1 |
| 47.5° | 2453.1 | 2472.1 | 2457.1 | 2385.1 | 2296.1 | 2343.1 | 2312.1 | 2560.1 | 3112.2 | 2982.1 | 2185.1 |
| 50°   | 2658.1 | 2673.1 | 2689.1 | 2666.1 | 2577.1 | 2532.1 | 2494.1 | 2799.1 | 3418.2 | 3308.2 | 2411.1 |
| 52.5° | 2680.1 | 2694.1 | 2782.1 | 2863.1 | 2922.1 | 2804.1 | 2685.1 | 3041.2 | 3701.2 | 3609.2 | 2618.1 |
| 55°   | 2537.1 | 2546.1 | 2693.1 | 2853.1 | 3124.2 | 3164.2 | 2966.1 | 3280.2 | 3938.2 | 3875.2 | 2757.1 |
| 57.5° | 2139.1 | 2177.1 | 2386.1 | 2631.1 | 3074.2 | 3378.2 | 3365.2 | 3558.2 | 4092.2 | 4063.2 | 2936.1 |
| 60°   | 1405.1 | 1447.1 | 1697.1 | 2068.1 | 2706.1 | 3321.2 | 3803.2 | 3975.2 | 4308.2 | 4340.2 | 3250.2 |
| 62.5° | 728.0  | 777.0  | 997.0  | 1326.1 | 1961.1 | 2892.1 | 3952.2 | 4660.2 | 4722.2 | 4831.2 | 3810.2 |
| 65°   | 416.0  | 426.0  | 536.0  | 777.0  | 1214.1 | 2071.1 | 3773.2 | 5338.3 | 5267.3 | 5488.3 | 4525.2 |
| 67°   | 309.0  | 309.0  | 386.0  | 528.0  | 769.0  | 1408.1 | 3218.2 | 5481.3 | 5610.3 | 5727.3 | 4669.2 |
| 67.5° | 277.0  | 292.0  | 358.0  | 487.0  | 690.0  | 1249.1 | 3011.1 | 5443.3 | 5632.3 | 5705.3 | 4619.2 |
| 70°   | 190.0  | 200.0  | 257.0  | 349.0  | 465.0  | 650.0  | 1974.1 | 4814.2 | 5426.3 | 5352.3 | 4186.2 |
| 72.5° | 114.0  | 118.0  | 170.0  | 251.0  | 347.0  | 348.0  | 1077.1 | 3654.2 | 4598.2 | 4597.2 | 3419.2 |
| 75°   | 71.0   | 75.0   | 100.0  | 168.0  | 243.0  | 218.0  | 498.0  | 2486.1 | 3302.2 | 3238.2 | 2291.1 |
| 77.5° | 40.0   | 46.0   | 60.0   | 92.0   | 154.0  | 139.0  | 210.0  | 1393.1 | 1784.1 | 1674.1 | 1138.1 |
| 80°   | 16.0   | 19.0   | 34.0   | 44.0   | 87.0   | 83.0   | 86.0   | 490.0  | 722.0  | 651.0  | 381.0  |
| 82.5° | 4.0    | 5.0    | 12.0   | 21.0   | 34.0   | 34.0   | 27.0   | 134.0  | 171.0  | 159.0  | 98.0   |
| 85°   | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 2.0    | 7.0    | 15.0   | 18.0   | 21.0   | 16.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 2.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 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):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 618.0  | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 | 618.0 |
| 2.5°  | 622.0  | 615.0 | 601.0 | 586.0 | 571.0 | 559.0 | 549.0 | 535.0 | 533.0 | 533.0 | 533.0 |
| 5°    | 635.0  | 619.0 | 587.0 | 555.0 | 523.0 | 494.0 | 473.0 | 456.0 | 441.0 | 436.0 | 440.0 |
| 7.5°  | 654.0  | 625.0 | 569.0 | 513.0 | 463.0 | 422.0 | 392.0 | 368.0 | 357.0 | 351.0 | 346.0 |
| 10°   | 679.0  | 634.0 | 545.0 | 463.0 | 400.0 | 351.0 | 319.0 | 296.0 | 285.0 | 278.0 | 279.0 |
| 12.5° | 706.0  | 641.0 | 515.0 | 409.0 | 339.0 | 294.0 | 267.0 | 248.0 | 230.0 | 219.0 | 222.0 |
| 15°   | 733.0  | 646.0 | 478.0 | 359.0 | 292.0 | 252.0 | 214.0 | 180.0 | 168.0 | 166.0 | 165.0 |
| 17.5° | 763.0  | 645.0 | 437.0 | 312.0 | 252.0 | 196.0 | 158.0 | 154.0 | 153.0 | 153.0 | 152.0 |
| 20°   | 794.0  | 640.0 | 390.0 | 273.0 | 212.0 | 149.0 | 143.0 | 141.0 | 138.0 | 137.0 | 136.0 |
| 22.5° | 828.0  | 631.0 | 347.0 | 239.0 | 158.0 | 136.0 | 128.0 | 122.0 | 117.0 | 114.0 | 115.0 |
| 25°   | 859.0  | 614.0 | 305.0 | 207.0 | 135.0 | 122.0 | 111.0 | 102.0 | 97.0  | 93.0  | 94.0  |
| 27.5° | 880.0  | 584.0 | 269.0 | 167.0 | 124.0 | 108.0 | 95.0  | 86.0  | 79.0  | 76.0  | 76.0  |
| 30°   | 882.0  | 541.0 | 237.0 | 137.0 | 113.0 | 95.0  | 81.0  | 71.0  | 67.0  | 65.0  | 64.0  |
| 32.5° | 880.0  | 497.0 | 213.0 | 126.0 | 103.0 | 83.0  | 69.0  | 62.0  | 58.0  | 56.0  | 56.0  |
| 35°   | 890.0  | 452.0 | 191.0 | 116.0 | 92.0  | 73.0  | 61.0  | 54.0  | 51.0  | 49.0  | 49.0  |
| 37.5° | 920.0  | 421.0 | 168.0 | 106.0 | 82.0  | 64.0  | 55.0  | 49.0  | 46.0  | 44.0  | 44.0  |
| 40°   | 961.0  | 395.0 | 140.0 | 96.0  | 72.0  | 58.0  | 50.0  | 45.0  | 41.0  | 39.0  | 39.0  |
| 42.5° | 1033.1 | 385.0 | 117.0 | 86.0  | 63.0  | 52.0  | 46.0  | 40.0  | 36.0  | 34.0  | 34.0  |
| 45°   | 1140.1 | 390.0 | 107.0 | 77.0  | 57.0  | 47.0  | 41.0  | 35.0  | 31.0  | 30.0  | 30.0  |
| 47.5° | 1258.1 | 411.0 | 100.0 | 69.0  | 52.0  | 44.0  | 37.0  | 31.0  | 27.0  | 26.0  | 26.0  |
| 50°   | 1390.1 | 444.0 | 94.0  | 61.0  | 47.0  | 40.0  | 33.0  | 27.0  | 24.0  | 23.0  | 23.0  |
| 52.5° | 1516.1 | 486.0 | 88.0  | 55.0  | 44.0  | 36.0  | 29.0  | 24.0  | 22.0  | 21.0  | 21.0  |
| 55°   | 1612.1 | 513.0 | 83.0  | 51.0  | 41.0  | 33.0  | 26.0  | 23.0  | 20.0  | 19.0  | 19.0  |
| 57.5° | 1746.1 | 558.0 | 77.0  | 46.0  | 37.0  | 30.0  | 24.0  | 21.0  | 18.0  | 18.0  | 18.0  |
| 60°   | 2018.1 | 679.0 | 68.0  | 42.0  | 33.0  | 27.0  | 23.0  | 19.0  | 17.0  | 16.0  | 16.0  |
| 62.5° | 2508.1 | 879.0 | 59.0  | 39.0  | 29.0  | 24.0  | 20.0  | 17.0  | 15.0  | 13.0  | 13.0  |
| 65°   | 2980.1 | 962.0 | 50.0  | 34.0  | 26.0  | 21.0  | 18.0  | 15.0  | 11.0  | 9.0   | 9.0   |
| 67°   | 2954.1 | 823.0 | 42.0  | 29.0  | 22.0  | 19.0  | 15.0  | 12.0  | 8.0   | 5.0   | 5.0   |
| 67.5° | 2884.1 | 766.0 | 41.0  | 28.0  | 21.0  | 18.0  | 15.0  | 11.0  | 7.0   | 4.0   | 4.0   |
| 70°   | 2451.1 | 536.0 | 32.0  | 22.0  | 18.0  | 16.0  | 12.0  | 8.0   | 4.0   | 2.0   | 2.0   |
| 72.5° | 1991.1 | 425.0 | 25.0  | 18.0  | 15.0  | 12.0  | 10.0  | 5.0   | 3.0   | 1.0   | 1.0   |
| 75°   | 1408.1 | 261.0 | 22.0  | 16.0  | 12.0  | 9.0   | 8.0   | 5.0   | 3.0   | 2.0   | 1.0   |
| 77.5° | 695.0  | 120.0 | 18.0  | 14.0  | 11.0  | 9.0   | 7.0   | 6.0   | 5.0   | 4.0   | 2.0   |
| 80°   | 204.0  | 39.0  | 12.0  | 10.0  | 10.0  | 9.0   | 8.0   | 7.0   | 6.0   | 5.0   | 3.0   |
| 82.5° | 46.0   | 14.0  | 4.0   | 5.0   | 7.0   | 7.0   | 7.0   | 5.0   | 4.0   | 2.0   | 1.0   |
| 85°   | 6.0    | 3.0   | 3.0   | 3.0   | 4.0   | 4.0   | 3.0   | 2.0   | 2.0   | 0.0   | 0.0   |
| 87.5° | 2.0    | 2.0   | 2.0   | 3.0   | 3.0   | 3.0   | 2.0   | 1.0   | 1.0   | 0.0   | 0.0   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)