

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: McGRAW-EDISON

Report Number: P594480

Luminaire Tested: **ISS-PA1A-750-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1A-750-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4296 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 28.9  
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

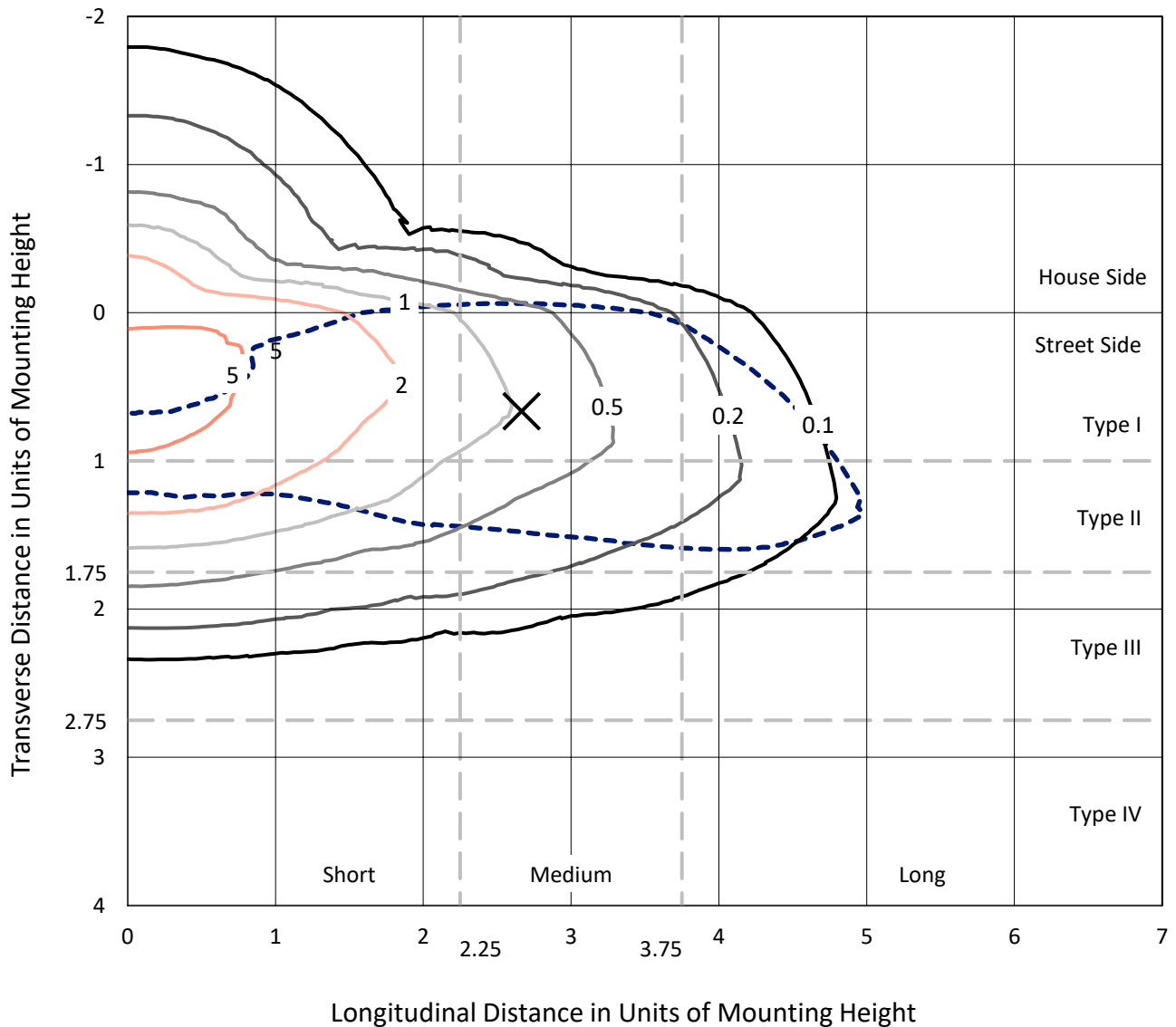




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### Iso-Footcandle Lines of Horizontal Illumination

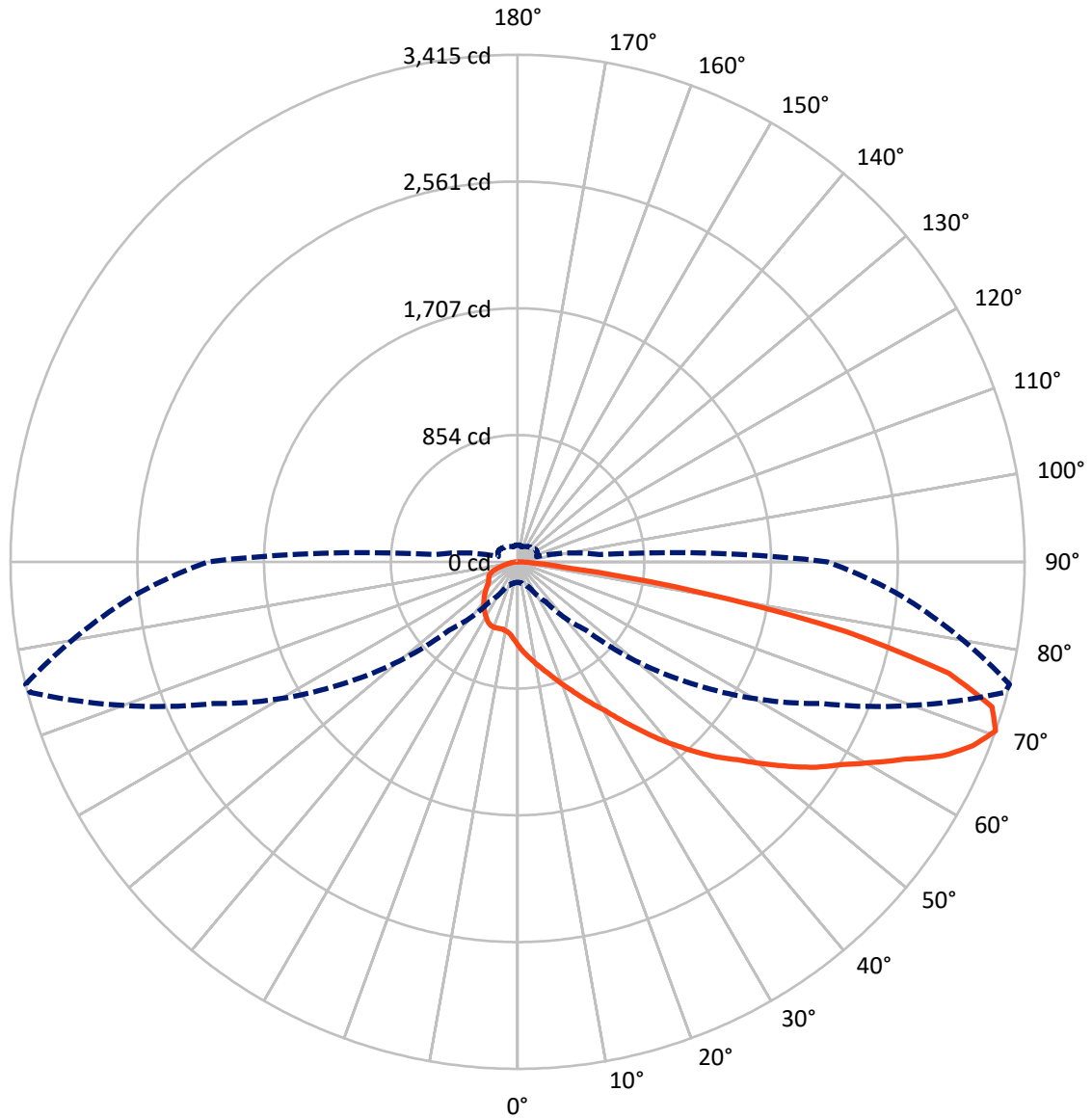
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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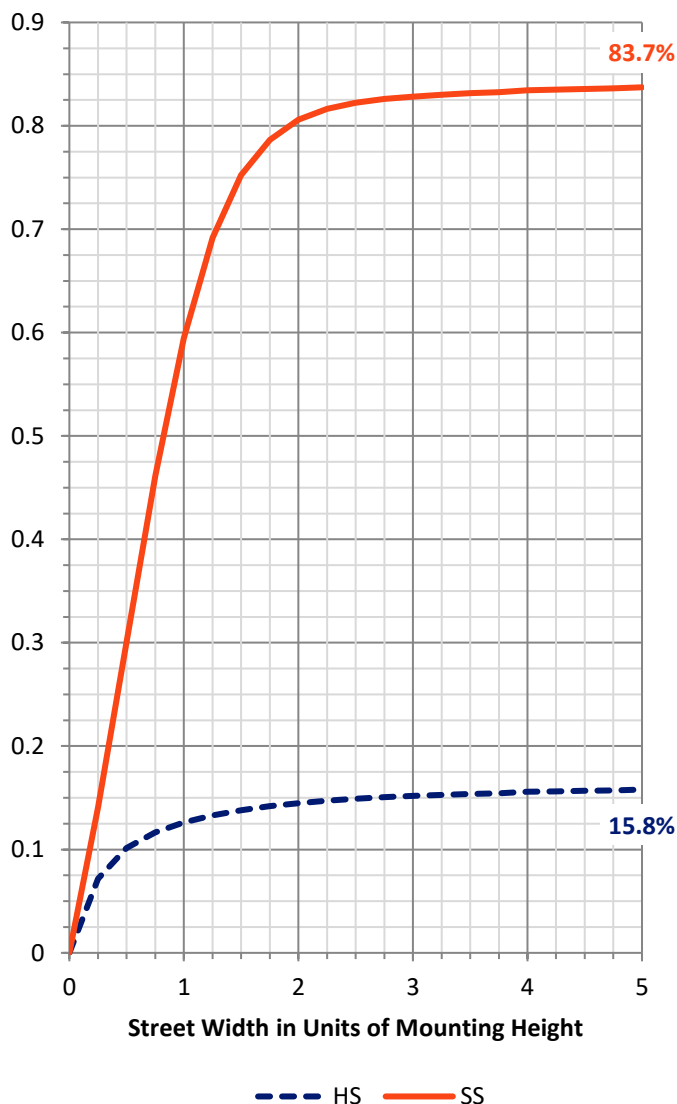
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 689.0    | 0.0    | 689.0  |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 3607.0   | 0.0    | 3607.0 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 4296.0   | 0.0    | 4296.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.9   | 1.3       |
| 10°-20°   | 181.3  | 4.2       |
| 20°-30°   | 334.0  | 7.8       |
| 30°-40°   | 559.7  | 13.0      |
| 40°-50°   | 795.2  | 18.5      |
| 50°-60°   | 918.1  | 21.4      |
| 60°-70°   | 844.0  | 19.6      |
| 70°-80°   | 532.2  | 12.4      |
| 80°-90°   | 76.5   | 1.8       |
| 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°    | 4296.0 | 100.0     |
| 0°-180°   | 4296.0 | 100.0     |

**Coefficient of Utilization**



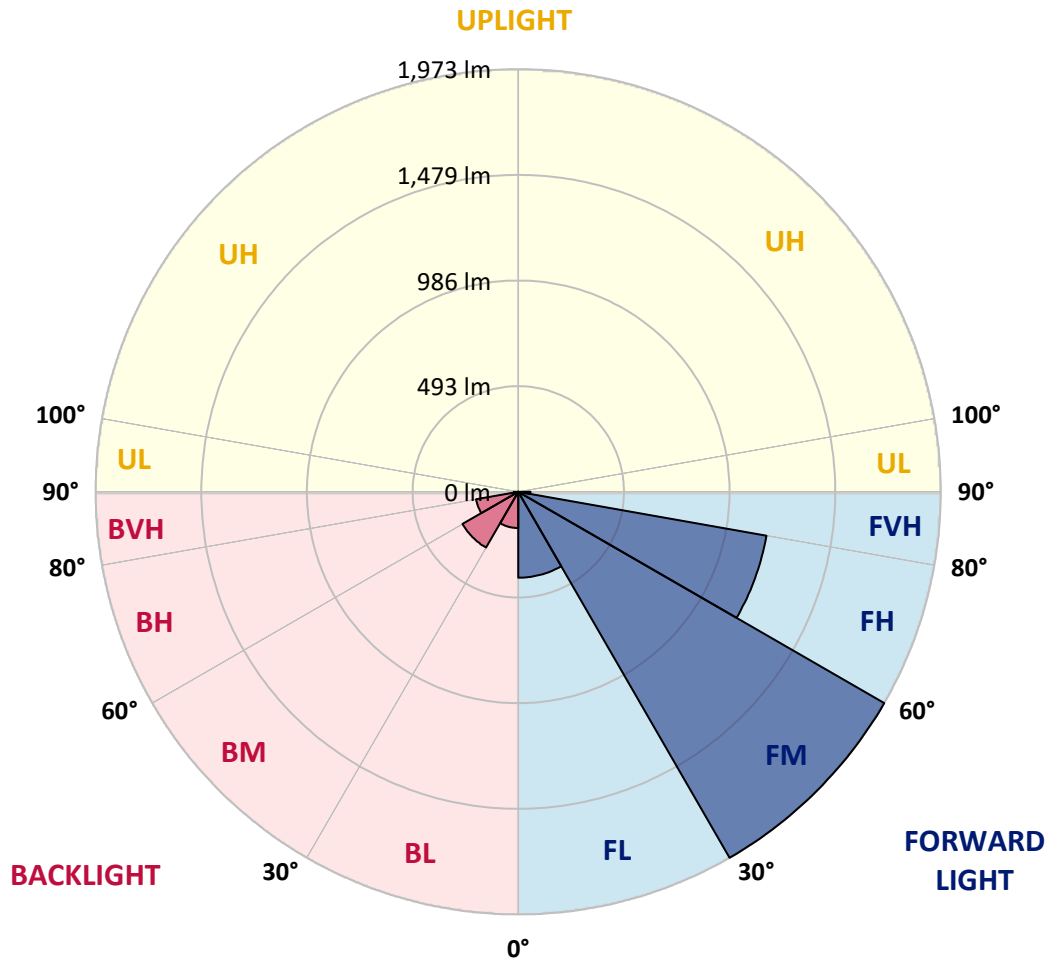
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 401.1  | 9.3       |                         |      |         |
| FM (30°-60°)   | 1972.6 | 45.9      |                         |      |         |
| FH (60°-80°)   | 1176.5 | 27.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 56.7   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 169.1  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 300.4  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 199.7  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 19.8   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  | 563.6  |
| 2.5°  | 678.4  | 677.3  | 674.2  | 669.0  | 664.9  | 652.5  | 636.0  | 621.5  | 599.8  | 597.7  | 576.0  |
| 5°    | 739.4  | 735.2  | 735.2  | 730.1  | 724.9  | 711.4  | 690.8  | 664.9  | 633.9  | 631.8  | 590.5  |
| 7.5°  | 768.3  | 769.4  | 767.3  | 763.1  | 764.2  | 752.8  | 734.2  | 708.3  | 665.9  | 663.9  | 610.1  |
| 10°   | 809.7  | 808.6  | 804.5  | 801.4  | 800.4  | 790.0  | 773.5  | 749.7  | 705.2  | 701.1  | 632.9  |
| 12.5° | 850.0  | 846.9  | 847.9  | 846.9  | 844.8  | 834.5  | 819.0  | 795.2  | 740.4  | 738.3  | 660.8  |
| 15°   | 872.8  | 871.7  | 879.0  | 881.0  | 889.3  | 880.0  | 866.6  | 839.7  | 790.0  | 781.8  | 693.9  |
| 17.5° | 887.2  | 886.2  | 893.4  | 910.0  | 925.5  | 925.5  | 921.4  | 892.4  | 837.6  | 831.4  | 731.1  |
| 20°   | 912.1  | 916.2  | 928.6  | 942.0  | 964.8  | 968.9  | 967.9  | 955.5  | 892.4  | 886.2  | 772.5  |
| 22.5° | 961.7  | 959.6  | 970.0  | 990.6  | 1011.3 | 1017.5 | 1018.6 | 1018.6 | 955.5  | 944.1  | 814.9  |
| 25°   | 1068.2 | 1063.0 | 1054.8 | 1052.7 | 1077.5 | 1076.5 | 1073.4 | 1080.6 | 1021.7 | 1013.4 | 863.5  |
| 27.5° | 1270.9 | 1259.5 | 1227.4 | 1163.3 | 1148.9 | 1154.0 | 1138.5 | 1139.6 | 1097.2 | 1086.8 | 904.8  |
| 30°   | 1463.2 | 1458.0 | 1428.1 | 1350.5 | 1268.8 | 1239.9 | 1213.0 | 1201.6 | 1180.9 | 1163.3 | 949.3  |
| 32.5° | 1636.9 | 1638.0 | 1601.8 | 1517.0 | 1433.2 | 1342.2 | 1295.7 | 1271.9 | 1280.2 | 1264.7 | 1010.3 |
| 35°   | 1754.8 | 1745.5 | 1722.8 | 1665.9 | 1574.9 | 1488.0 | 1399.1 | 1346.4 | 1390.8 | 1373.3 | 1071.3 |
| 37.5° | 1824.1 | 1816.9 | 1798.3 | 1757.9 | 1712.4 | 1628.7 | 1516.0 | 1435.3 | 1522.2 | 1496.3 | 1148.9 |
| 40°   | 1859.3 | 1848.9 | 1830.3 | 1813.8 | 1792.1 | 1746.6 | 1647.3 | 1536.6 | 1642.1 | 1619.4 | 1225.4 |
| 42.5° | 1863.4 | 1856.2 | 1845.8 | 1837.6 | 1844.8 | 1838.6 | 1775.5 | 1654.5 | 1768.3 | 1743.5 | 1313.3 |
| 45°   | 1860.3 | 1865.5 | 1853.1 | 1838.6 | 1853.1 | 1905.8 | 1905.8 | 1772.4 | 1893.4 | 1874.8 | 1397.0 |
| 47.5° | 1862.4 | 1857.2 | 1853.1 | 1848.9 | 1851.0 | 1923.4 | 1995.8 | 1883.1 | 2013.3 | 1991.6 | 1495.3 |
| 50°   | 1776.5 | 1783.8 | 1818.9 | 1834.4 | 1843.8 | 1927.5 | 2068.2 | 2003.0 | 2162.3 | 2135.4 | 1604.9 |
| 52.5° | 1503.5 | 1507.7 | 1668.0 | 1783.8 | 1821.0 | 1911.0 | 2118.8 | 2136.4 | 2309.1 | 2288.4 | 1722.8 |
| 55°   | 1158.2 | 1179.9 | 1331.9 | 1615.2 | 1769.3 | 1883.1 | 2134.3 | 2223.3 | 2459.0 | 2442.5 | 1841.7 |
| 57.5° | 953.4  | 956.5  | 1044.4 | 1297.8 | 1605.9 | 1857.2 | 2149.8 | 2302.9 | 2593.5 | 2574.8 | 1965.8 |
| 60°   | 791.1  | 783.8  | 837.6  | 1001.0 | 1334.0 | 1753.8 | 2152.9 | 2366.0 | 2749.6 | 2743.4 | 2094.0 |
| 62.5° | 581.2  | 589.4  | 641.1  | 779.7  | 1043.4 | 1543.9 | 2137.4 | 2419.7 | 2935.7 | 2927.5 | 2236.7 |
| 65°   | 356.8  | 367.1  | 430.2  | 557.4  | 790.0  | 1225.4 | 2036.1 | 2447.7 | 3131.2 | 3149.8 | 2390.8 |
| 67.5° | 189.2  | 196.5  | 233.7  | 337.1  | 541.9  | 933.8  | 1792.1 | 2412.5 | 3296.6 | 3304.9 | 2538.7 |
| 70°   | 138.6  | 139.6  | 152.0  | 190.3  | 326.8  | 649.4  | 1427.0 | 2259.5 | 3398.0 | 3414.5 | 2587.3 |
| 72.5° | 121.0  | 122.0  | 127.2  | 136.5  | 177.9  | 396.1  | 1022.7 | 1992.7 | 3355.6 | 3341.1 | 2505.6 |
| 75°   | 109.6  | 109.6  | 113.7  | 116.9  | 130.3  | 219.2  | 626.6  | 1630.7 | 3031.9 | 2999.9 | 2136.4 |
| 77.5° | 94.1   | 94.1   | 98.2   | 102.4  | 112.7  | 141.7  | 327.8  | 1208.8 | 2318.4 | 2263.6 | 1461.1 |
| 80°   | 75.5   | 75.5   | 80.7   | 85.8   | 99.3   | 106.5  | 160.3  | 808.6  | 1325.7 | 1245.0 | 664.9  |
| 82.5° | 51.7   | 55.8   | 65.1   | 71.4   | 82.7   | 75.5   | 94.1   | 349.5  | 417.8  | 361.9  | 149.9  |
| 85°   | 31.0   | 33.1   | 46.5   | 53.8   | 62.0   | 40.3   | 57.9   | 134.4  | 125.1  | 109.6  | 34.1   |
| 87.5° | 3.1    | 5.2    | 18.6   | 21.7   | 21.7   | 11.4   | 24.8   | 32.1   | 36.2   | 37.2   | 8.3    |
| 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):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 563.6  | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 |
| 2.5°  | 563.6  | 551.2 | 527.4 | 505.7 | 483.9 | 469.5 | 455.0 | 449.8 | 442.6 | 437.4 | 441.6 |
| 5°    | 568.7  | 542.9 | 497.4 | 459.1 | 433.3 | 413.6 | 404.3 | 399.2 | 395.0 | 394.0 | 392.9 |
| 7.5°  | 574.9  | 536.7 | 475.7 | 433.3 | 408.5 | 399.2 | 397.1 | 397.1 | 397.1 | 398.1 | 399.2 |
| 10°   | 588.4  | 538.8 | 464.3 | 418.8 | 405.4 | 403.3 | 404.3 | 408.5 | 408.5 | 409.5 | 409.5 |
| 12.5° | 603.9  | 543.9 | 456.0 | 416.7 | 408.5 | 409.5 | 410.5 | 412.6 | 412.6 | 415.7 | 414.7 |
| 15°   | 626.6  | 554.3 | 455.0 | 418.8 | 411.6 | 409.5 | 409.5 | 408.5 | 408.5 | 408.5 | 410.5 |
| 17.5° | 655.6  | 568.7 | 456.0 | 418.8 | 408.5 | 404.3 | 401.2 | 398.1 | 394.0 | 396.1 | 394.0 |
| 20°   | 684.6  | 586.3 | 456.0 | 413.6 | 400.2 | 389.8 | 380.5 | 375.4 | 370.2 | 369.2 | 370.2 |
| 22.5° | 720.8  | 607.0 | 450.9 | 402.3 | 382.6 | 368.1 | 354.7 | 347.4 | 339.2 | 336.1 | 334.0 |
| 25°   | 751.8  | 623.5 | 440.5 | 385.7 | 363.0 | 342.3 | 324.7 | 312.3 | 302.0 | 299.9 | 299.9 |
| 27.5° | 783.8  | 638.0 | 425.0 | 365.0 | 335.0 | 312.3 | 292.6 | 277.1 | 266.8 | 265.8 | 264.7 |
| 30°   | 813.8  | 650.4 | 404.3 | 342.3 | 310.2 | 283.3 | 260.6 | 247.1 | 237.8 | 232.7 | 229.6 |
| 32.5° | 853.1  | 667.0 | 384.7 | 319.5 | 281.3 | 254.4 | 233.7 | 222.3 | 209.9 | 201.6 | 198.5 |
| 35°   | 902.7  | 686.6 | 363.0 | 294.7 | 255.4 | 228.5 | 216.1 | 199.6 | 184.1 | 174.8 | 171.7 |
| 37.5° | 958.6  | 714.5 | 340.2 | 268.9 | 229.6 | 209.9 | 202.7 | 176.8 | 160.3 | 157.2 | 156.1 |
| 40°   | 1027.9 | 741.4 | 314.4 | 242.0 | 204.7 | 199.6 | 187.2 | 160.3 | 152.0 | 151.0 | 149.9 |
| 42.5° | 1097.2 | 770.4 | 289.5 | 215.1 | 185.1 | 187.2 | 169.6 | 156.1 | 148.9 | 146.8 | 145.8 |
| 45°   | 1177.8 | 799.3 | 264.7 | 191.3 | 169.6 | 169.6 | 160.3 | 152.0 | 145.8 | 143.7 | 143.7 |
| 47.5° | 1262.6 | 828.3 | 237.8 | 170.6 | 158.2 | 152.0 | 153.0 | 146.8 | 142.7 | 140.6 | 139.6 |
| 50°   | 1369.1 | 856.2 | 213.0 | 156.1 | 151.0 | 142.7 | 145.8 | 141.7 | 139.6 | 137.5 | 136.5 |
| 52.5° | 1469.4 | 868.6 | 190.3 | 147.9 | 146.8 | 138.6 | 139.6 | 137.5 | 136.5 | 133.4 | 132.4 |
| 55°   | 1567.7 | 865.5 | 172.7 | 143.7 | 141.7 | 137.5 | 135.5 | 134.4 | 133.4 | 130.3 | 129.3 |
| 57.5° | 1677.3 | 861.4 | 161.3 | 142.7 | 138.6 | 134.4 | 134.4 | 131.3 | 127.2 | 127.2 | 127.2 |
| 60°   | 1791.0 | 847.9 | 156.1 | 142.7 | 137.5 | 134.4 | 132.4 | 129.3 | 125.1 | 126.2 | 125.1 |
| 62.5° | 1919.2 | 822.1 | 153.0 | 145.8 | 138.6 | 133.4 | 131.3 | 127.2 | 122.0 | 123.1 | 122.0 |
| 65°   | 2032.0 | 769.4 | 151.0 | 148.9 | 140.6 | 134.4 | 129.3 | 124.1 | 117.9 | 118.9 | 117.9 |
| 67.5° | 2108.5 | 680.4 | 144.8 | 151.0 | 143.7 | 133.4 | 127.2 | 120.0 | 111.7 | 115.8 | 114.8 |
| 70°   | 2086.8 | 553.2 | 133.4 | 146.8 | 146.8 | 134.4 | 124.1 | 114.8 | 105.5 | 113.7 | 110.6 |
| 72.5° | 1918.2 | 415.7 | 111.7 | 132.4 | 144.8 | 134.4 | 117.9 | 106.5 | 98.2  | 103.4 | 97.2  |
| 75°   | 1574.9 | 282.3 | 88.9  | 105.5 | 135.5 | 135.5 | 112.7 | 98.2  | 87.9  | 84.8  | 82.7  |
| 77.5° | 982.4  | 175.8 | 69.3  | 77.6  | 113.7 | 134.4 | 107.5 | 87.9  | 73.4  | 71.4  | 69.3  |
| 80°   | 388.8  | 94.1  | 54.8  | 55.8  | 83.8  | 123.1 | 100.3 | 74.5  | 58.9  | 56.9  | 52.7  |
| 82.5° | 88.9   | 47.6  | 38.3  | 37.2  | 51.7  | 100.3 | 91.0  | 58.9  | 45.5  | 45.5  | 38.3  |
| 85°   | 26.9   | 24.8  | 24.8  | 23.8  | 25.9  | 51.7  | 70.3  | 40.3  | 31.0  | 21.7  | 18.6  |
| 87.5° | 7.2    | 10.3  | 9.3   | 8.3   | 8.3   | 7.2   | 22.7  | 10.3  | 6.2   | 3.1   | 2.1   |
| 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)