

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: P594606

Luminaire Tested: **ISS-PA1C-722-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594606  
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-PA1C-722-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5153 lumens  
Efficiency: N/A  
Efficacy: 105.4 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

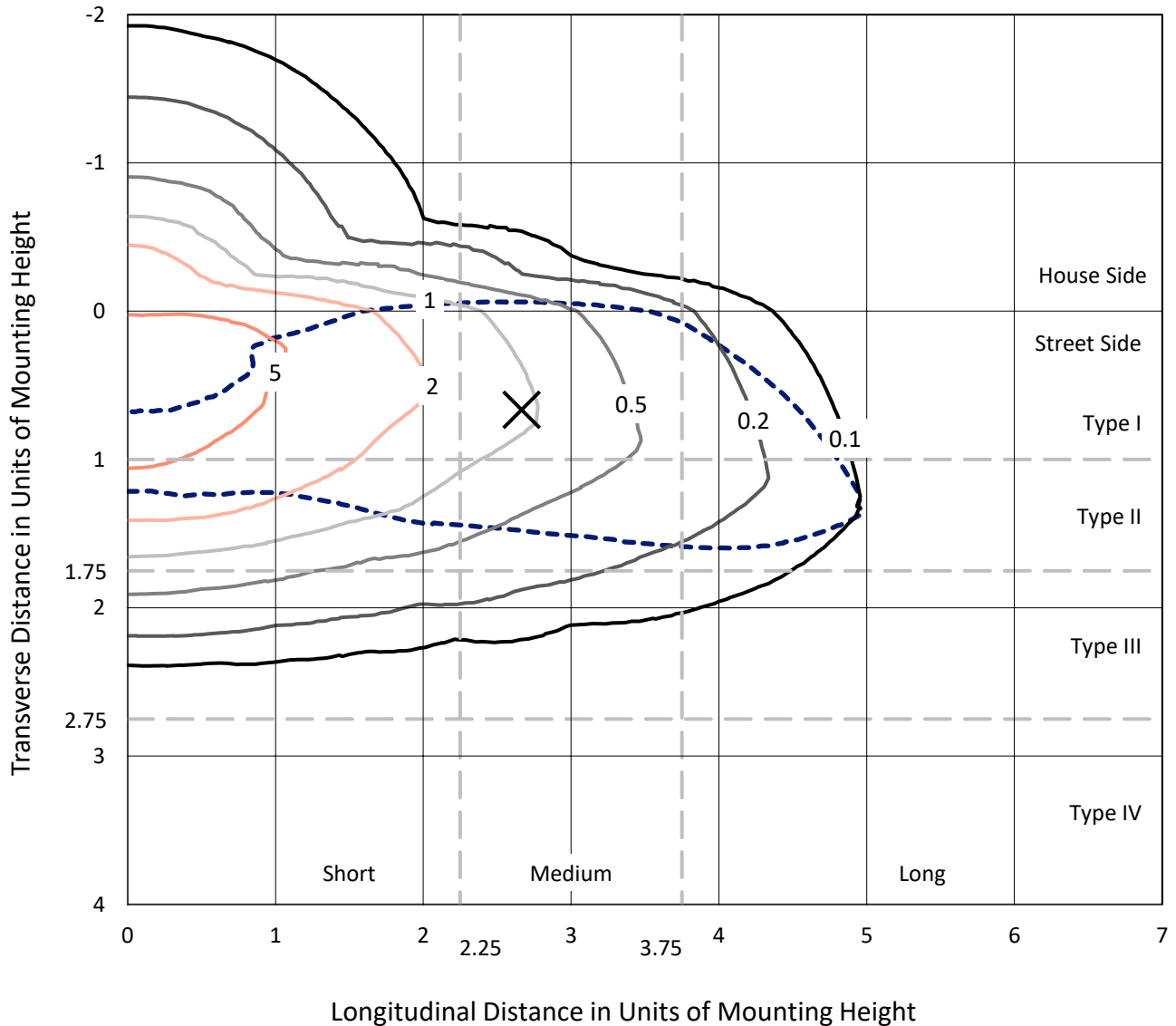
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

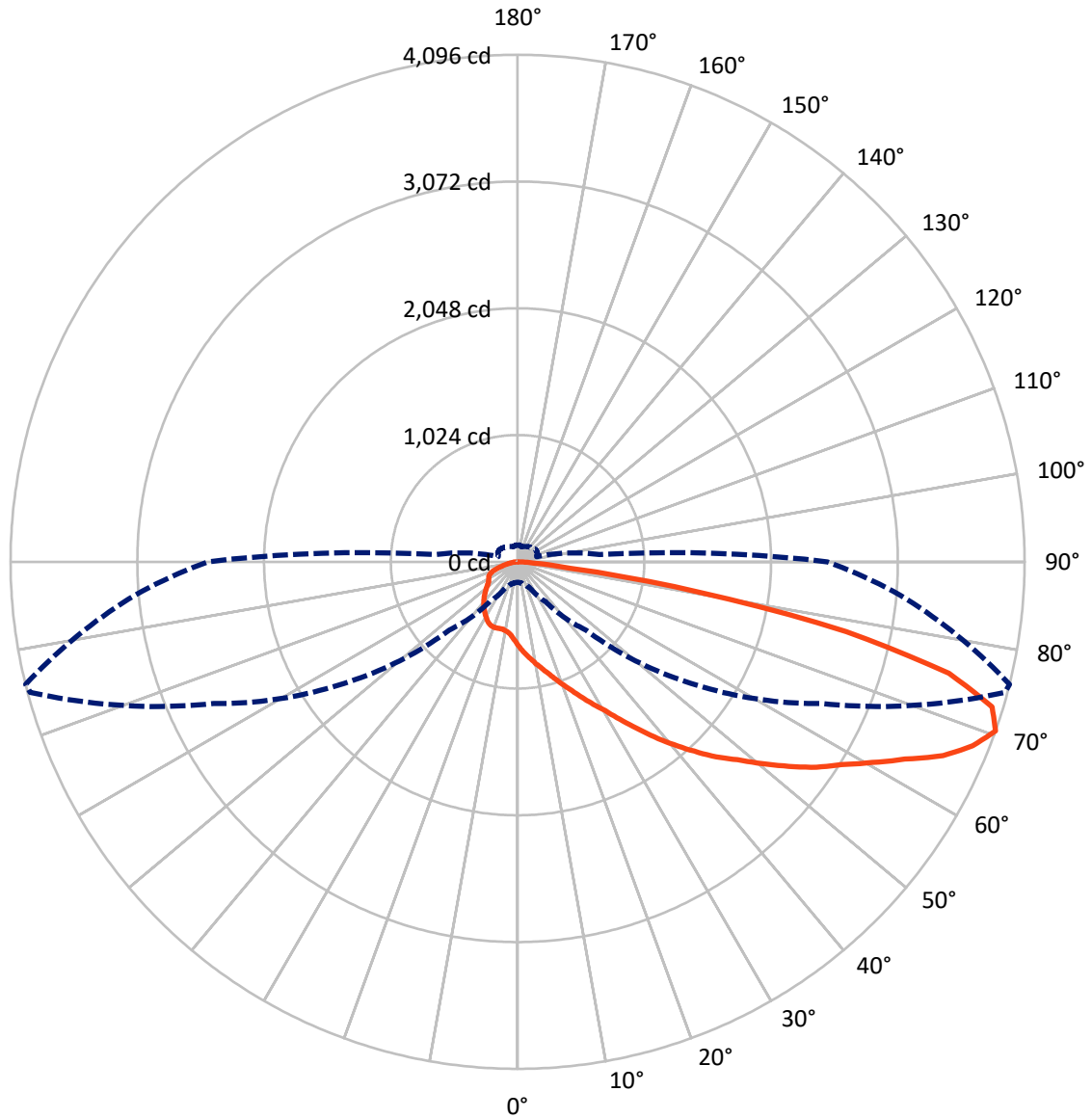
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.1 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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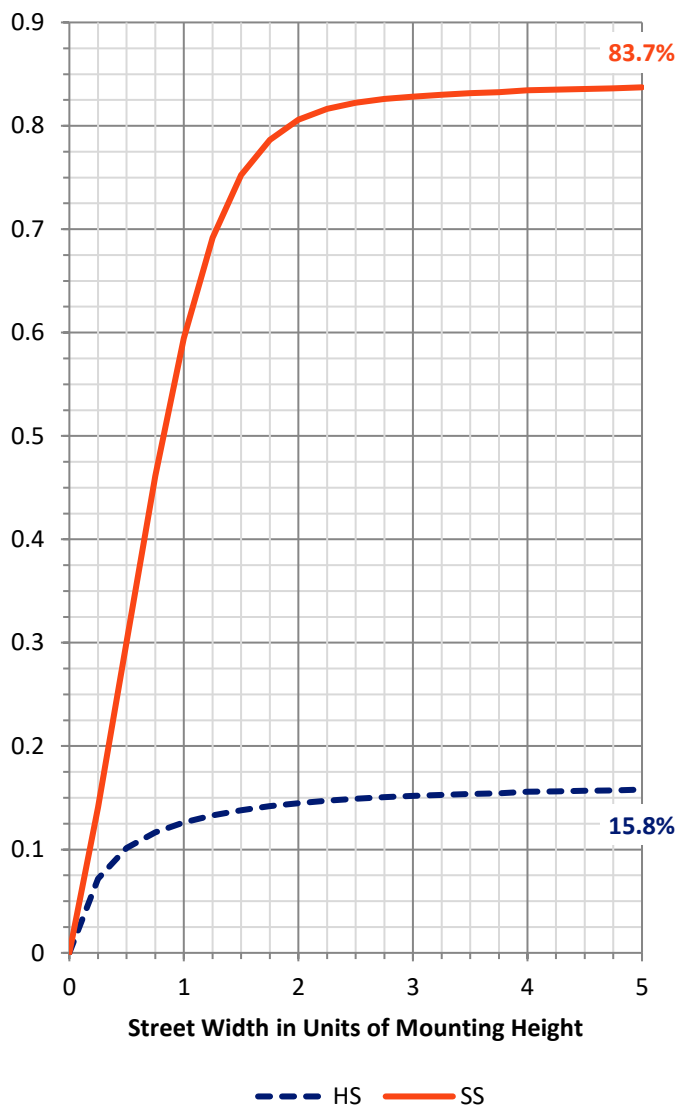
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 826.5    | 0.0    | 826.5  |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 4326.5   | 0.0    | 4326.5 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 5153.0   | 0.0    | 5153.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.9   | 1.3       |
| 10°-20°   | 217.4  | 4.2       |
| 20°-30°   | 400.7  | 7.8       |
| 30°-40°   | 671.3  | 13.0      |
| 40°-50°   | 953.9  | 18.5      |
| 50°-60°   | 1101.3 | 21.4      |
| 60°-70°   | 1012.4 | 19.6      |
| 70°-80°   | 638.4  | 12.4      |
| 80°-90°   | 91.8   | 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°    | 5153.0 | 100.0     |
| 0°-180°   | 5153.0 | 100.0     |

**Coefficient of Utilization**

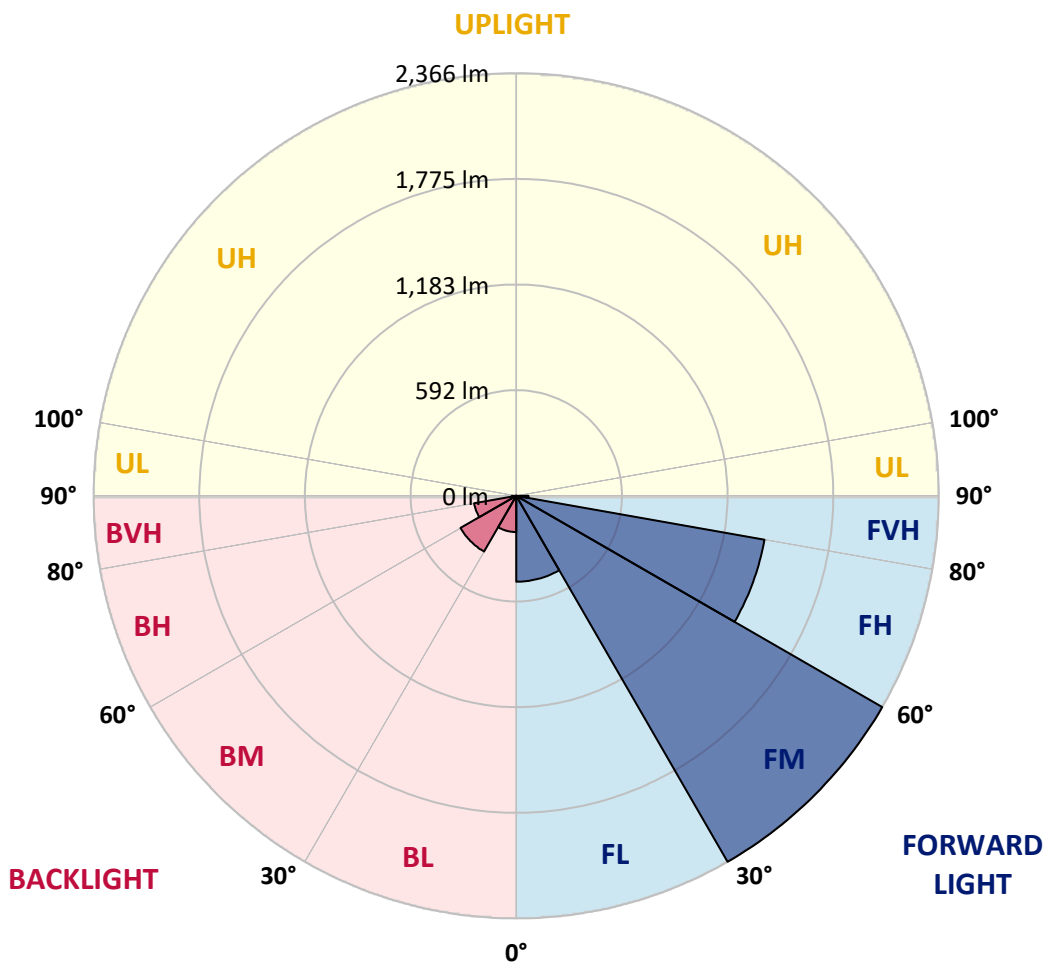


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 481.1  | 9.3       |                         |      |         |
| FM (30°-60°)   | 2366.1 | 45.9      |                         |      |         |
| FH (60°-80°)   | 1411.2 | 27.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 68.1   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 202.9  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 360.3  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 239.5  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 23.8   | 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°    | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  | 676.0  |
| 2.5°  | 813.7  | 812.4  | 808.7  | 802.5  | 797.6  | 782.7  | 762.8  | 745.5  | 719.4  | 716.9  | 690.9  |
| 5°    | 886.9  | 881.9  | 881.9  | 875.7  | 869.5  | 853.4  | 828.6  | 797.6  | 760.3  | 757.9  | 708.2  |
| 7.5°  | 921.6  | 922.8  | 920.3  | 915.4  | 916.6  | 903.0  | 880.7  | 849.6  | 798.8  | 796.3  | 731.8  |
| 10°   | 971.2  | 970.0  | 965.0  | 961.3  | 960.0  | 947.6  | 927.8  | 899.3  | 845.9  | 841.0  | 759.1  |
| 12.5° | 1019.6 | 1015.9 | 1017.1 | 1015.9 | 1013.4 | 1001.0 | 982.4  | 953.8  | 888.1  | 885.6  | 792.6  |
| 15°   | 1046.9 | 1045.6 | 1054.3 | 1056.8 | 1066.7 | 1055.5 | 1039.4 | 1007.2 | 947.6  | 937.7  | 832.3  |
| 17.5° | 1064.2 | 1063.0 | 1071.7 | 1091.5 | 1110.1 | 1110.1 | 1105.2 | 1070.4 | 1004.7 | 997.3  | 876.9  |
| 20°   | 1094.0 | 1099.0 | 1113.8 | 1130.0 | 1157.3 | 1162.2 | 1161.0 | 1146.1 | 1070.4 | 1063.0 | 926.5  |
| 22.5° | 1153.5 | 1151.1 | 1163.5 | 1188.3 | 1213.1 | 1220.5 | 1221.8 | 1221.8 | 1146.1 | 1132.4 | 977.4  |
| 25°   | 1281.3 | 1275.1 | 1265.2 | 1262.7 | 1292.5 | 1291.2 | 1287.5 | 1296.2 | 1225.5 | 1215.6 | 1035.7 |
| 27.5° | 1524.4 | 1510.8 | 1472.3 | 1395.4 | 1378.0 | 1384.2 | 1365.6 | 1366.9 | 1316.0 | 1303.6 | 1085.3 |
| 30°   | 1755.1 | 1748.9 | 1712.9 | 1619.9 | 1521.9 | 1487.2 | 1454.9 | 1441.3 | 1416.5 | 1395.4 | 1138.7 |
| 32.5° | 1963.5 | 1964.7 | 1921.3 | 1819.6 | 1719.1 | 1610.0 | 1554.2 | 1525.6 | 1535.6 | 1517.0 | 1211.8 |
| 35°   | 2104.9 | 2093.7 | 2066.4 | 1998.2 | 1889.1 | 1784.9 | 1678.2 | 1615.0 | 1668.3 | 1647.2 | 1285.0 |
| 37.5° | 2188.0 | 2179.3 | 2157.0 | 2108.6 | 2054.0 | 1953.6 | 1818.4 | 1721.6 | 1825.8 | 1794.8 | 1378.0 |
| 40°   | 2230.2 | 2217.8 | 2195.4 | 2175.6 | 2149.5 | 2095.0 | 1975.9 | 1843.2 | 1969.7 | 1942.4 | 1469.8 |
| 42.5° | 2235.1 | 2226.4 | 2214.0 | 2204.1 | 2212.8 | 2205.4 | 2129.7 | 1984.6 | 2121.0 | 2091.2 | 1575.3 |
| 45°   | 2231.4 | 2237.6 | 2222.7 | 2205.4 | 2222.7 | 2286.0 | 2286.0 | 2126.0 | 2271.1 | 2248.8 | 1675.7 |
| 47.5° | 2233.9 | 2227.7 | 2222.7 | 2217.8 | 2220.2 | 2307.1 | 2393.9 | 2258.7 | 2415.0 | 2388.9 | 1793.6 |
| 50°   | 2130.9 | 2139.6 | 2181.8 | 2200.4 | 2211.6 | 2312.0 | 2480.7 | 2402.6 | 2593.6 | 2561.3 | 1925.0 |
| 52.5° | 1803.5 | 1808.4 | 2000.7 | 2139.6 | 2184.3 | 2292.2 | 2541.5 | 2562.6 | 2769.7 | 2744.9 | 2066.4 |
| 55°   | 1389.2 | 1415.3 | 1597.6 | 1937.4 | 2122.3 | 2258.7 | 2560.1 | 2666.8 | 2949.6 | 2929.7 | 2209.1 |
| 57.5° | 1143.6 | 1147.3 | 1252.8 | 1556.7 | 1926.3 | 2227.7 | 2578.7 | 2762.3 | 3110.8 | 3088.5 | 2357.9 |
| 60°   | 948.9  | 940.2  | 1004.7 | 1200.7 | 1600.1 | 2103.7 | 2582.4 | 2837.9 | 3298.1 | 3290.7 | 2511.7 |
| 62.5° | 697.1  | 707.0  | 769.0  | 935.2  | 1251.5 | 1851.9 | 2563.8 | 2902.4 | 3521.4 | 3511.5 | 2682.9 |
| 65°   | 427.9  | 440.3  | 516.0  | 668.6  | 947.6  | 1469.8 | 2442.3 | 2935.9 | 3755.8 | 3778.1 | 2867.7 |
| 67.5° | 227.0  | 235.7  | 280.3  | 404.4  | 649.9  | 1120.0 | 2149.5 | 2893.8 | 3954.3 | 3964.2 | 3045.1 |
| 70°   | 166.2  | 167.4  | 182.3  | 228.2  | 392.0  | 778.9  | 1711.7 | 2710.2 | 4075.8 | 4095.7 | 3103.4 |
| 72.5° | 145.1  | 146.4  | 152.6  | 163.7  | 213.3  | 475.1  | 1226.7 | 2390.2 | 4025.0 | 4007.6 | 3005.4 |
| 75°   | 131.5  | 131.5  | 136.4  | 140.2  | 156.3  | 263.0  | 751.7  | 1956.0 | 3636.7 | 3598.3 | 2562.6 |
| 77.5° | 112.9  | 112.9  | 117.8  | 122.8  | 135.2  | 169.9  | 393.2  | 1450.0 | 2780.9 | 2715.2 | 1752.6 |
| 80°   | 90.5   | 90.5   | 96.7   | 102.9  | 119.1  | 127.8  | 192.3  | 970.0  | 1590.1 | 1493.4 | 797.6  |
| 82.5° | 62.0   | 67.0   | 78.1   | 85.6   | 99.2   | 90.5   | 112.9  | 419.2  | 501.1  | 434.1  | 179.9  |
| 85°   | 37.2   | 39.7   | 55.8   | 64.5   | 74.4   | 48.4   | 69.5   | 161.2  | 150.1  | 131.5  | 40.9   |
| 87.5° | 3.7    | 6.2    | 22.3   | 26.0   | 26.0   | 13.6   | 29.8   | 38.5   | 43.4   | 44.7   | 9.9    |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 676.0  | 676.0  | 676.0 | 676.0 | 676.0 | 676.0 | 676.0 | 676.0 | 676.0 | 676.0 | 676.0 |
| 2.5°  | 676.0  | 661.1  | 632.6 | 606.5 | 580.5 | 563.1 | 545.8 | 539.6 | 530.9 | 524.7 | 529.6 |
| 5°    | 682.2  | 651.2  | 596.6 | 550.7 | 519.7 | 496.1 | 485.0 | 478.8 | 473.8 | 472.6 | 471.3 |
| 7.5°  | 689.6  | 643.7  | 570.6 | 519.7 | 489.9 | 478.8 | 476.3 | 476.3 | 476.3 | 477.5 | 478.8 |
| 10°   | 705.8  | 646.2  | 556.9 | 502.3 | 486.2 | 483.7 | 485.0 | 489.9 | 489.9 | 491.2 | 491.2 |
| 12.5° | 724.4  | 652.4  | 547.0 | 499.9 | 489.9 | 491.2 | 492.4 | 494.9 | 494.9 | 498.6 | 497.4 |
| 15°   | 751.7  | 664.8  | 545.8 | 502.3 | 493.7 | 491.2 | 491.2 | 489.9 | 489.9 | 489.9 | 492.4 |
| 17.5° | 786.4  | 682.2  | 547.0 | 502.3 | 489.9 | 485.0 | 481.3 | 477.5 | 472.6 | 475.1 | 472.6 |
| 20°   | 821.1  | 703.3  | 547.0 | 496.1 | 480.0 | 467.6 | 456.5 | 450.3 | 444.0 | 442.8 | 444.0 |
| 22.5° | 864.5  | 728.1  | 540.8 | 482.5 | 458.9 | 441.6 | 425.4 | 416.8 | 406.8 | 403.1 | 400.6 |
| 25°   | 901.7  | 747.9  | 528.4 | 462.7 | 435.4 | 410.6 | 389.5 | 374.6 | 362.2 | 359.7 | 359.7 |
| 27.5° | 940.2  | 765.3  | 509.8 | 437.8 | 401.9 | 374.6 | 351.0 | 332.4 | 320.0 | 318.8 | 317.5 |
| 30°   | 976.2  | 780.2  | 485.0 | 410.6 | 372.1 | 339.9 | 312.6 | 296.4 | 285.3 | 279.1 | 275.4 |
| 32.5° | 1023.3 | 800.0  | 461.4 | 383.3 | 337.4 | 305.1 | 280.3 | 266.7 | 251.8 | 241.9 | 238.1 |
| 35°   | 1082.8 | 823.6  | 435.4 | 353.5 | 306.4 | 274.1 | 259.2 | 239.4 | 220.8 | 209.6 | 205.9 |
| 37.5° | 1149.8 | 857.1  | 408.1 | 322.5 | 275.4 | 251.8 | 243.1 | 212.1 | 192.3 | 188.5 | 187.3 |
| 40°   | 1232.9 | 889.3  | 377.1 | 290.2 | 245.6 | 239.4 | 224.5 | 192.3 | 182.3 | 181.1 | 179.9 |
| 42.5° | 1316.0 | 924.1  | 347.3 | 258.0 | 222.0 | 224.5 | 203.4 | 187.3 | 178.6 | 176.1 | 174.9 |
| 45°   | 1412.8 | 958.8  | 317.5 | 229.5 | 203.4 | 203.4 | 192.3 | 182.3 | 174.9 | 172.4 | 172.4 |
| 47.5° | 1514.5 | 993.5  | 285.3 | 204.7 | 189.8 | 182.3 | 183.6 | 176.1 | 171.2 | 168.7 | 167.4 |
| 50°   | 1642.2 | 1027.0 | 255.5 | 187.3 | 181.1 | 171.2 | 174.9 | 169.9 | 167.4 | 165.0 | 163.7 |
| 52.5° | 1762.6 | 1041.9 | 228.2 | 177.4 | 176.1 | 166.2 | 167.4 | 165.0 | 163.7 | 160.0 | 158.8 |
| 55°   | 1880.4 | 1038.2 | 207.1 | 172.4 | 169.9 | 165.0 | 162.5 | 161.2 | 160.0 | 156.3 | 155.0 |
| 57.5° | 2011.9 | 1033.2 | 193.5 | 171.2 | 166.2 | 161.2 | 161.2 | 157.5 | 152.6 | 152.6 | 152.6 |
| 60°   | 2148.3 | 1017.1 | 187.3 | 171.2 | 165.0 | 161.2 | 158.8 | 155.0 | 150.1 | 151.3 | 150.1 |
| 62.5° | 2302.1 | 986.1  | 183.6 | 174.9 | 166.2 | 160.0 | 157.5 | 152.6 | 146.4 | 147.6 | 146.4 |
| 65°   | 2437.3 | 922.8  | 181.1 | 178.6 | 168.7 | 161.2 | 155.0 | 148.8 | 141.4 | 142.6 | 141.4 |
| 67.5° | 2529.1 | 816.2  | 173.7 | 181.1 | 172.4 | 160.0 | 152.6 | 143.9 | 134.0 | 138.9 | 137.7 |
| 70°   | 2503.0 | 663.6  | 160.0 | 176.1 | 176.1 | 161.2 | 148.8 | 137.7 | 126.5 | 136.4 | 132.7 |
| 72.5° | 2300.9 | 498.6  | 134.0 | 158.8 | 173.7 | 161.2 | 141.4 | 127.8 | 117.8 | 124.0 | 116.6 |
| 75°   | 1889.1 | 338.6  | 106.7 | 126.5 | 162.5 | 162.5 | 135.2 | 117.8 | 105.4 | 101.7 | 99.2  |
| 77.5° | 1178.3 | 210.9  | 83.1  | 93.0  | 136.4 | 161.2 | 129.0 | 105.4 | 88.1  | 85.6  | 83.1  |
| 80°   | 466.4  | 112.9  | 65.7  | 67.0  | 100.5 | 147.6 | 120.3 | 89.3  | 70.7  | 68.2  | 63.3  |
| 82.5° | 106.7  | 57.1   | 45.9  | 44.7  | 62.0  | 120.3 | 109.2 | 70.7  | 54.6  | 54.6  | 45.9  |
| 85°   | 32.2   | 29.8   | 29.8  | 28.5  | 31.0  | 62.0  | 84.3  | 48.4  | 37.2  | 26.0  | 22.3  |
| 87.5° | 8.7    | 12.4   | 11.2  | 9.9   | 9.9   | 8.7   | 27.3  | 12.4  | 7.4   | 3.7   | 2.5   |
| 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)