

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: P595068

Luminaire Tested: **IST-PA1B-750-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1B-750-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3767 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

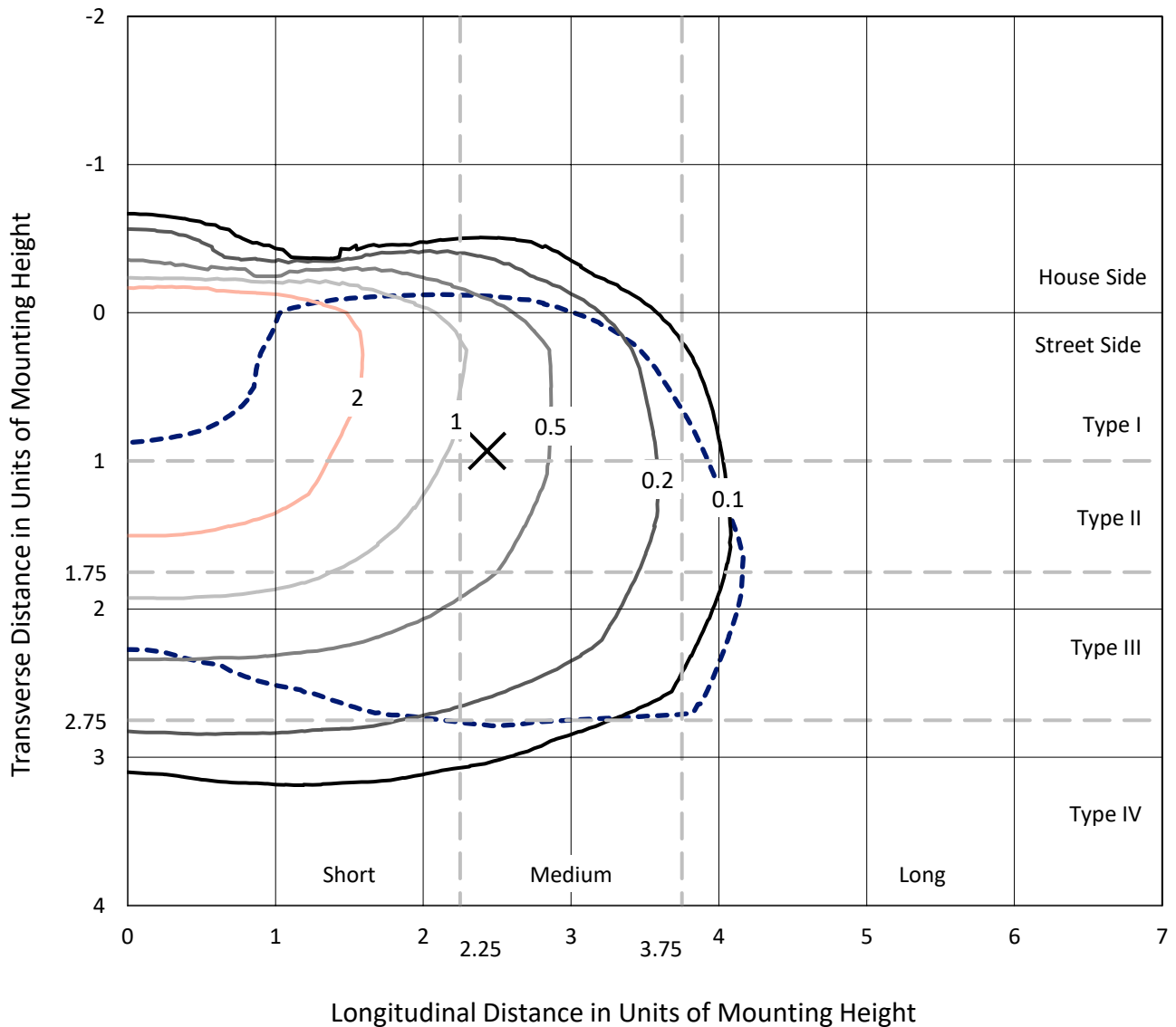
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

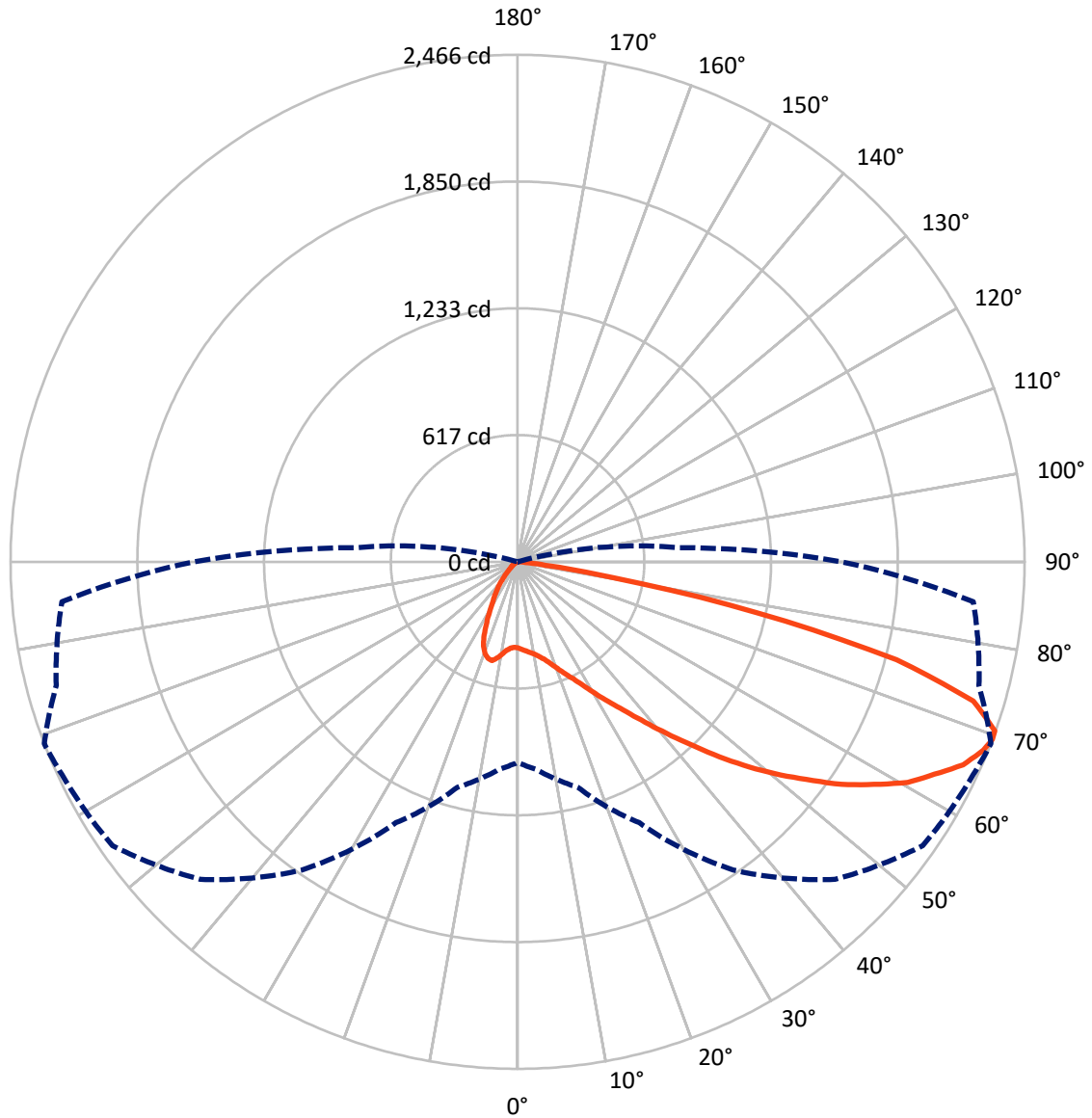
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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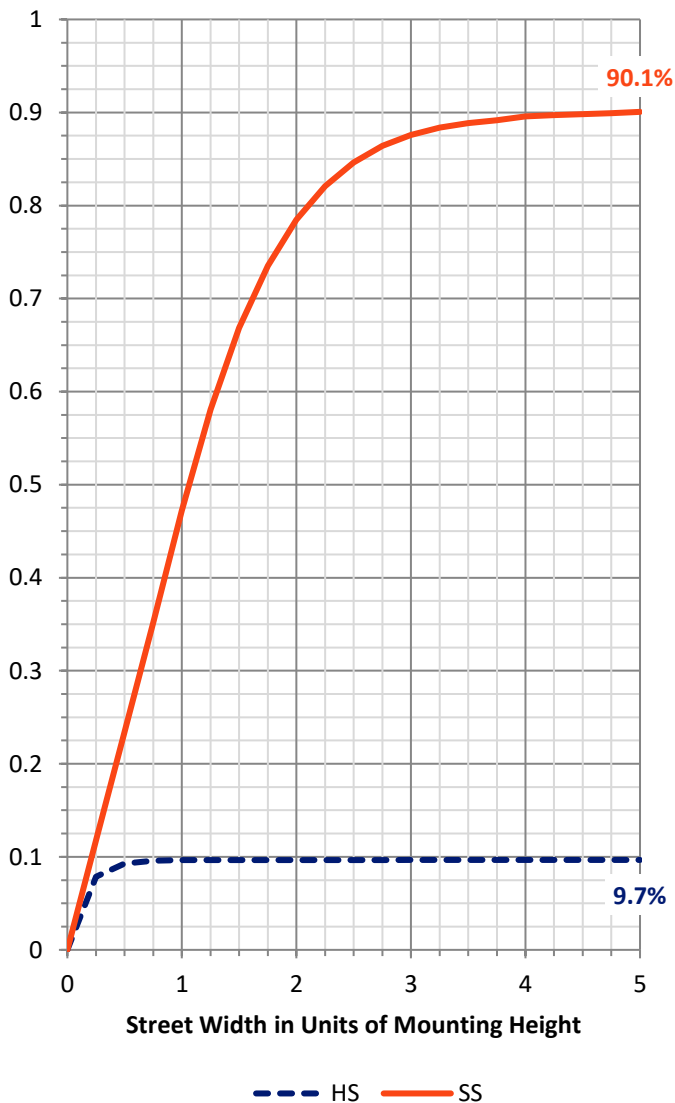
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 367.1    | 0.0    | 367.1  |
|                    | % Fixture | 9.7      | 0.0    | 9.7    |
| <b>Street Side</b> | Lumens    | 3399.9   | 0.0    | 3399.9 |
|                    | % Fixture | 90.3     | 0.0    | 90.3   |
| <b>Total</b>       | Lumens    | 3767.0   | 0.0    | 3767.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.0   | 1.1       |
| 10°-20°   | 105.7  | 2.8       |
| 20°-30°   | 176.0  | 4.7       |
| 30°-40°   | 316.9  | 8.4       |
| 40°-50°   | 574.6  | 15.3      |
| 50°-60°   | 897.9  | 23.8      |
| 60°-70°   | 1038.8 | 27.6      |
| 70°-80°   | 580.9  | 15.4      |
| 80°-90°   | 36.3   | 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°    | 3767.0 | 100.0     |
| 0°-180°   | 3767.0 | 100.0     |

**Coefficient of Utilization**

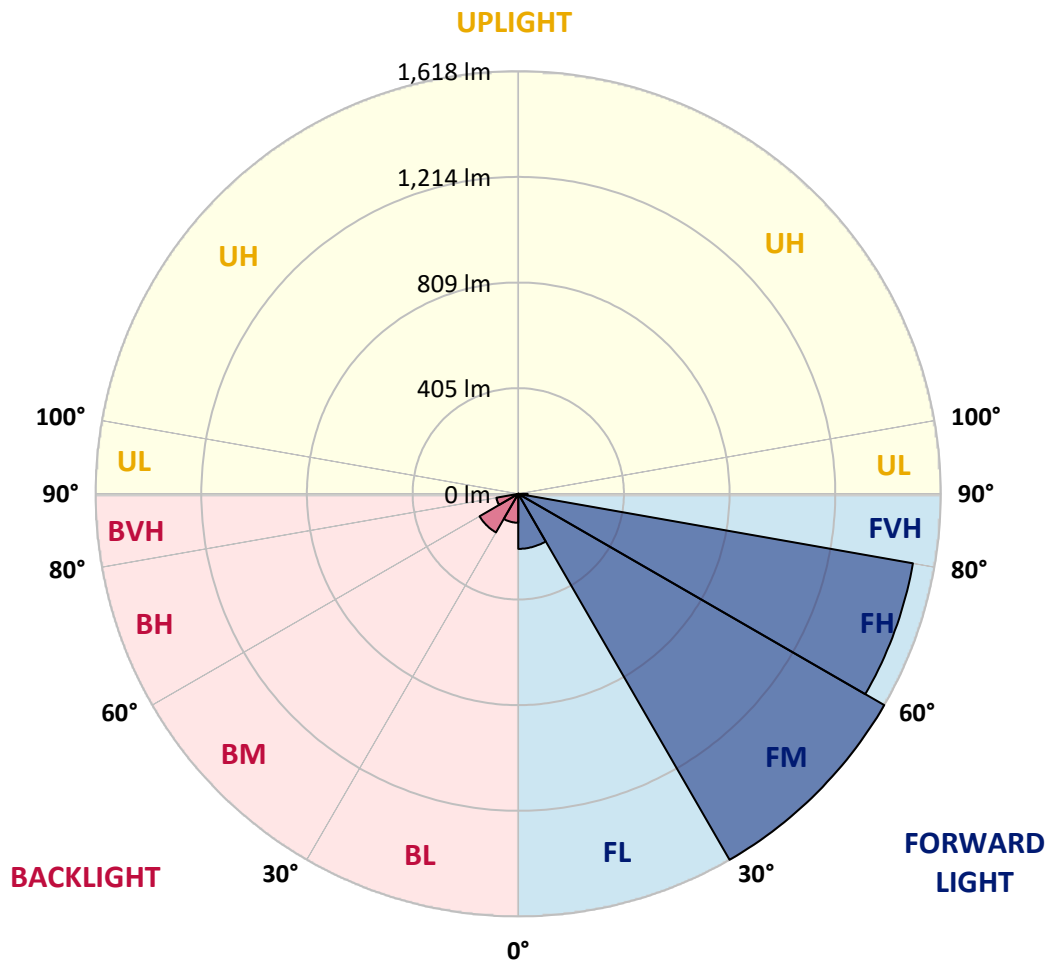


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 210.7  | 5.6       |                         |      |         |
| FM (30°-60°)   | 1618.4 | 43.0      |                         |      |         |
| FH (60°-80°)   | 1534.8 | 40.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 36.0   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 110.9  | 2.9       | B1/500                  |      |         |
| BM (30°-60°)   | 170.9  | 4.5       | B0/220                  |      |         |
| BH (60°-80°)   | 85.0   | 2.3       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 69°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  | 419.0  |
| 2.5°  | 434.1  | 434.1  | 434.1  | 431.6  | 432.8  | 431.6  | 430.3  | 426.5  | 427.8  | 426.5  | 422.8  |
| 5°    | 419.0  | 420.3  | 424.0  | 426.5  | 432.8  | 435.3  | 436.6  | 436.6  | 435.3  | 432.8  | 430.3  |
| 7.5°  | 390.2  | 390.2  | 393.9  | 401.5  | 414.0  | 427.8  | 439.1  | 445.4  | 446.6  | 446.6  | 442.9  |
| 10°   | 382.6  | 382.6  | 387.7  | 392.7  | 405.2  | 421.5  | 439.1  | 454.1  | 456.7  | 459.2  | 457.9  |
| 12.5° | 378.9  | 380.1  | 385.1  | 393.9  | 410.2  | 425.3  | 444.1  | 465.4  | 473.0  | 479.2  | 480.5  |
| 15°   | 383.9  | 383.9  | 388.9  | 397.7  | 416.5  | 437.8  | 461.7  | 485.5  | 493.0  | 501.8  | 508.1  |
| 17.5° | 391.4  | 393.9  | 396.4  | 405.2  | 422.8  | 449.1  | 480.5  | 511.9  | 520.6  | 531.9  | 536.9  |
| 20°   | 404.0  | 404.0  | 406.5  | 414.0  | 432.8  | 464.2  | 508.1  | 545.7  | 553.3  | 560.8  | 567.1  |
| 22.5° | 419.0  | 420.3  | 420.3  | 426.5  | 447.9  | 481.7  | 531.9  | 578.3  | 590.9  | 594.7  | 597.2  |
| 25°   | 464.2  | 461.7  | 452.9  | 449.1  | 465.4  | 501.8  | 560.8  | 617.2  | 631.0  | 634.8  | 629.8  |
| 27.5° | 558.3  | 548.2  | 524.4  | 499.3  | 496.8  | 533.2  | 599.7  | 666.2  | 681.2  | 682.5  | 664.9  |
| 30°   | 676.2  | 677.5  | 638.6  | 584.6  | 548.2  | 567.1  | 642.3  | 727.6  | 742.7  | 736.4  | 708.8  |
| 32.5° | 821.7  | 815.5  | 786.6  | 708.8  | 636.1  | 619.7  | 688.7  | 791.6  | 809.2  | 799.1  | 762.8  |
| 35°   | 945.9  | 949.7  | 914.6  | 845.6  | 754.0  | 701.3  | 745.2  | 863.1  | 884.5  | 866.9  | 821.7  |
| 37.5° | 1050.1 | 1055.1 | 1033.7 | 977.3  | 895.7  | 812.9  | 819.2  | 947.2  | 976.0  | 958.5  | 902.0  |
| 40°   | 1165.5 | 1169.2 | 1160.5 | 1099.0 | 1026.2 | 945.9  | 918.3  | 1043.8 | 1082.7 | 1058.8 | 999.9  |
| 42.5° | 1292.2 | 1306.0 | 1290.9 | 1242.0 | 1166.7 | 1097.7 | 1056.3 | 1161.7 | 1200.6 | 1185.5 | 1106.5 |
| 45°   | 1465.3 | 1466.6 | 1449.0 | 1400.1 | 1322.3 | 1265.8 | 1215.7 | 1287.2 | 1337.3 | 1318.5 | 1225.7 |
| 47.5° | 1593.3 | 1602.1 | 1592.0 | 1558.1 | 1495.4 | 1457.8 | 1388.8 | 1425.2 | 1477.9 | 1454.0 | 1348.6 |
| 50°   | 1691.1 | 1715.0 | 1706.2 | 1716.2 | 1684.9 | 1668.5 | 1563.2 | 1568.2 | 1619.6 | 1599.5 | 1474.1 |
| 52.5° | 1745.1 | 1775.2 | 1777.7 | 1829.1 | 1855.5 | 1895.6 | 1732.5 | 1725.0 | 1757.6 | 1740.1 | 1602.1 |
| 55°   | 1737.5 | 1745.1 | 1807.8 | 1901.9 | 2004.8 | 2096.3 | 1898.1 | 1866.8 | 1911.9 | 1863.0 | 1737.5 |
| 57.5° | 1664.8 | 1683.6 | 1794.0 | 1910.7 | 2092.6 | 2225.6 | 2041.1 | 2006.0 | 2043.7 | 1978.4 | 1876.8 |
| 60°   | 1560.7 | 1588.3 | 1730.0 | 1896.9 | 2144.0 | 2303.3 | 2180.4 | 2145.3 | 2179.1 | 2100.1 | 2034.9 |
| 62.5° | 1466.6 | 1479.1 | 1609.6 | 1839.2 | 2113.9 | 2299.6 | 2288.3 | 2255.7 | 2275.7 | 2192.9 | 2170.4 |
| 65°   | 1332.3 | 1337.3 | 1466.6 | 1735.0 | 2047.4 | 2274.5 | 2347.3 | 2359.8 | 2381.1 | 2270.7 | 2267.0 |
| 67.5° | 1125.3 | 1136.6 | 1264.6 | 1553.1 | 1937.0 | 2225.6 | 2393.7 | 2418.8 | 2443.9 | 2312.1 | 2284.5 |
| 69°   | 976.0  | 1012.4 | 1135.4 | 1400.1 | 1830.4 | 2184.2 | 2406.2 | 2446.4 | 2466.4 | 2323.4 | 2225.6 |
| 70°   | 854.3  | 885.7  | 1027.5 | 1282.1 | 1736.3 | 2137.7 | 2415.0 | 2442.6 | 2462.7 | 2299.6 | 2129.0 |
| 72.5° | 429.1  | 469.2  | 663.7  | 935.9  | 1380.0 | 1925.7 | 2369.8 | 2339.7 | 2318.4 | 2115.2 | 1722.5 |
| 75°   | 165.6  | 171.9  | 284.8  | 533.2  | 863.1  | 1413.9 | 2023.6 | 1967.1 | 1904.4 | 1604.6 | 1021.2 |
| 77.5° | 91.6   | 90.3   | 124.2  | 235.9  | 367.6  | 691.3  | 1368.7 | 1278.4 | 1191.8 | 861.9  | 414.0  |
| 80°   | 38.9   | 41.4   | 53.9   | 112.9  | 193.2  | 239.6  | 664.9  | 590.9  | 470.5  | 273.5  | 99.1   |
| 82.5° | 23.8   | 25.1   | 37.6   | 69.0   | 134.2  | 91.6   | 215.8  | 184.4  | 135.5  | 74.0   | 23.8   |
| 85°   | 7.5    | 8.8    | 26.3   | 46.4   | 65.2   | 37.6   | 48.9   | 42.7   | 37.6   | 31.4   | 7.5    |
| 87.5° | 1.3    | 1.3    | 10.0   | 25.1   | 17.6   | 6.3    | 5.0    | 8.8    | 13.8   | 15.1   | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 419.0  | 419.0  | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 |
| 2.5°  | 421.5  | 419.0  | 416.5 | 415.3 | 415.3 | 412.7 | 411.5 | 410.2 | 410.2 | 409.0 | 409.0 |
| 5°    | 426.5  | 424.0  | 421.5 | 420.3 | 417.8 | 416.5 | 416.5 | 416.5 | 415.3 | 416.5 | 417.8 |
| 7.5°  | 439.1  | 435.3  | 434.1 | 432.8 | 432.8 | 429.1 | 422.8 | 406.5 | 390.2 | 385.1 | 380.1 |
| 10°   | 456.7  | 455.4  | 455.4 | 455.4 | 446.6 | 414.0 | 368.8 | 328.7 | 307.4 | 289.8 | 289.8 |
| 12.5° | 481.7  | 481.7  | 480.5 | 476.7 | 431.6 | 352.5 | 282.3 | 222.1 | 186.9 | 166.9 | 169.4 |
| 15°   | 509.3  | 508.1  | 510.6 | 486.8 | 380.1 | 272.2 | 170.6 | 120.4 | 101.6 | 99.1  | 99.1  |
| 17.5° | 538.2  | 540.7  | 538.2 | 460.4 | 312.4 | 168.1 | 101.6 | 91.6  | 89.1  | 89.1  | 89.1  |
| 20°   | 568.3  | 565.8  | 562.0 | 415.3 | 227.1 | 105.4 | 87.8  | 85.3  | 82.8  | 81.5  | 81.5  |
| 22.5° | 598.4  | 595.9  | 570.8 | 357.5 | 141.8 | 86.6  | 82.8  | 77.8  | 74.0  | 72.8  | 72.8  |
| 25°   | 627.3  | 627.3  | 554.5 | 283.5 | 96.6  | 81.5  | 75.3  | 70.3  | 66.5  | 62.7  | 62.7  |
| 27.5° | 663.7  | 666.2  | 528.2 | 198.2 | 81.5  | 75.3  | 67.7  | 60.2  | 55.2  | 52.7  | 52.7  |
| 30°   | 705.1  | 708.8  | 485.5 | 129.2 | 74.0  | 66.5  | 59.0  | 50.2  | 42.7  | 40.1  | 38.9  |
| 32.5° | 754.0  | 757.7  | 436.6 | 85.3  | 66.5  | 57.7  | 48.9  | 37.6  | 30.1  | 28.9  | 27.6  |
| 35°   | 816.7  | 807.9  | 377.6 | 67.7  | 57.7  | 48.9  | 37.6  | 26.3  | 21.3  | 20.1  | 20.1  |
| 37.5° | 894.5  | 875.7  | 309.9 | 59.0  | 48.9  | 38.9  | 27.6  | 17.6  | 13.8  | 13.8  | 12.5  |
| 40°   | 983.6  | 930.9  | 239.6 | 52.7  | 41.4  | 30.1  | 17.6  | 11.3  | 8.8   | 8.8   | 8.8   |
| 42.5° | 1081.4 | 977.3  | 170.6 | 46.4  | 33.9  | 21.3  | 11.3  | 6.3   | 5.0   | 5.0   | 5.0   |
| 45°   | 1194.3 | 1019.9 | 116.7 | 40.1  | 28.9  | 15.1  | 6.3   | 2.5   | 2.5   | 2.5   | 2.5   |
| 47.5° | 1307.2 | 1047.5 | 77.8  | 35.1  | 21.3  | 8.8   | 3.8   | 1.3   | 1.3   | 1.3   | 1.3   |
| 50°   | 1421.4 | 1068.9 | 60.2  | 30.1  | 15.1  | 5.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5° | 1523.0 | 1083.9 | 48.9  | 25.1  | 10.0  | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 1610.8 | 1085.2 | 42.7  | 20.1  | 7.5   | 2.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 1699.9 | 1075.1 | 36.4  | 15.1  | 5.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 1753.9 | 1048.8 | 28.9  | 11.3  | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1786.5 | 1004.9 | 22.6  | 7.5   | 2.5   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1767.7 | 949.7  | 16.3  | 5.0   | 2.5   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 1679.8 | 864.4  | 11.3  | 3.8   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 69°   | 1575.7 | 786.6  | 10.0  | 2.5   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 1484.1 | 726.4  | 8.8   | 2.5   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1105.3 | 467.9  | 7.5   | 2.5   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 621.0  | 156.8  | 5.0   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 233.3  | 40.1   | 2.5   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 51.4   | 10.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 11.3   | 2.5    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.8    | 1.3    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.3    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)