

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: P595281

Luminaire Tested: **IST-PA1E-730-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595281  
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: IST-PA1E-730-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9407 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

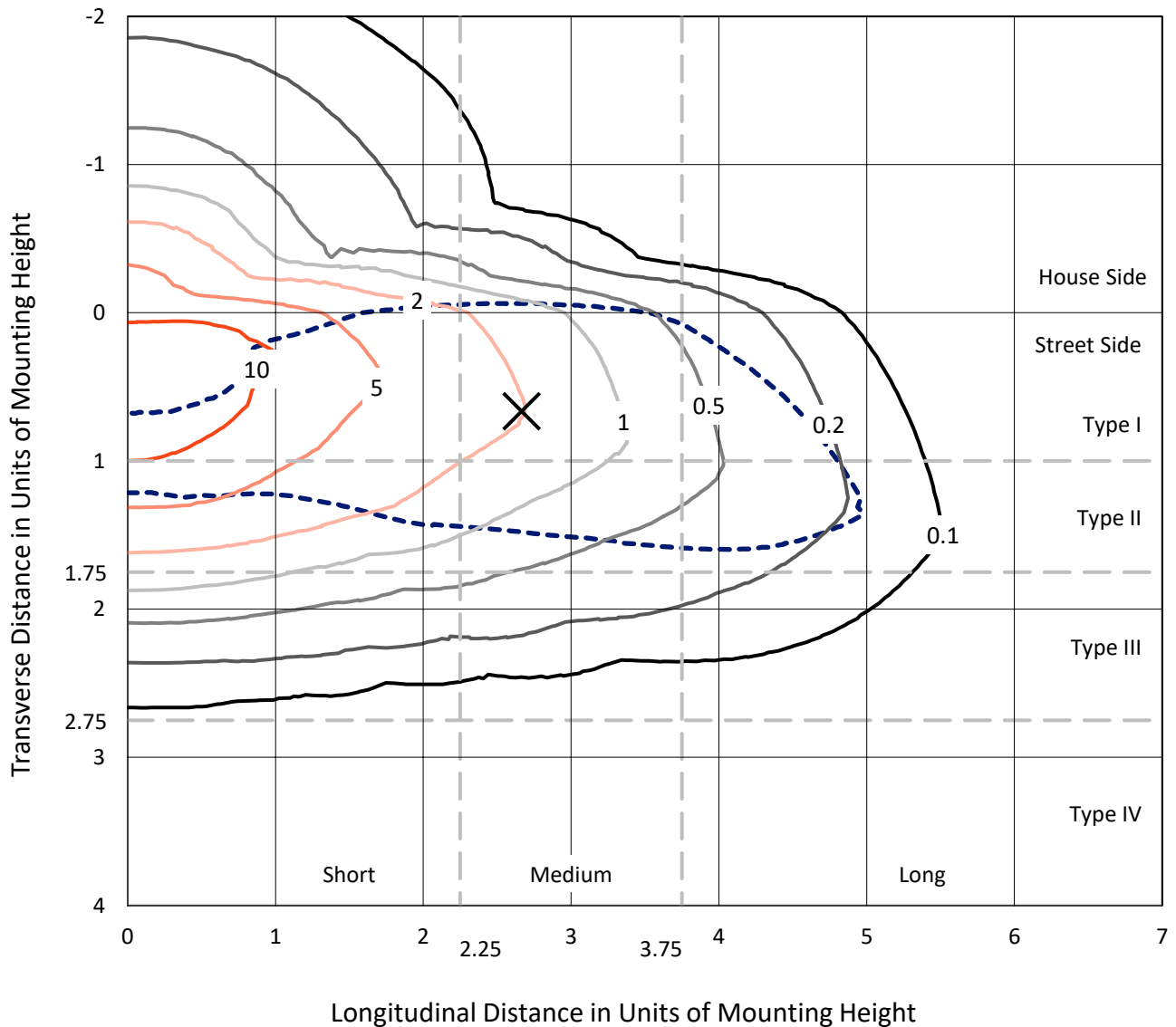
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

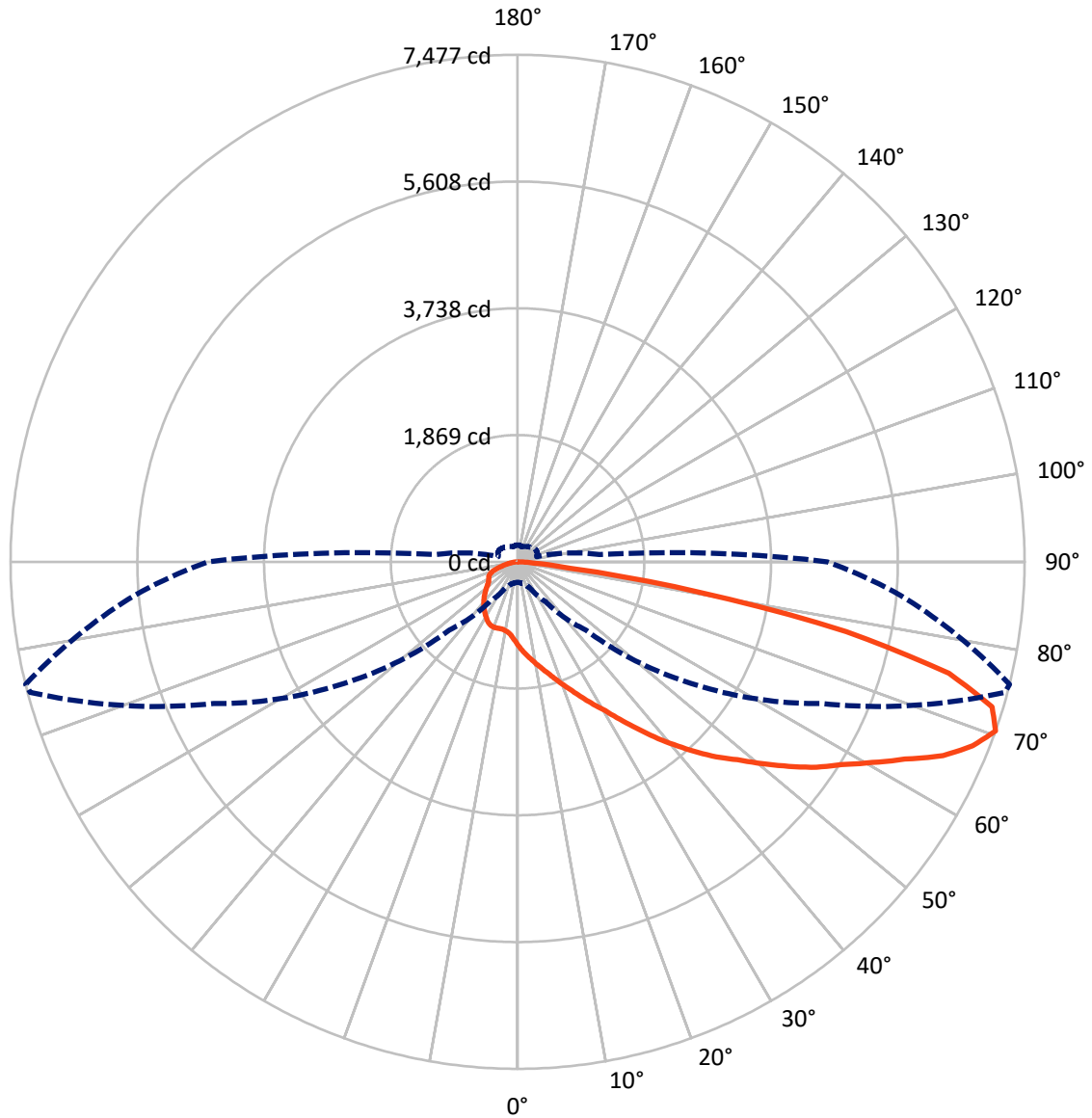
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.9 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    | 1508.8   | 0.0    | 1508.8 |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 7898.2   | 0.0    | 7898.2 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 9407.0   | 0.0    | 9407.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.3  | 1.3       |
| 10°-20°   | 396.9  | 4.2       |
| 20°-30°   | 731.4  | 7.8       |
| 30°-40°   | 1225.5 | 13.0      |
| 40°-50°   | 1741.3 | 18.5      |
| 50°-60°   | 2010.5 | 21.4      |
| 60°-70°   | 1848.2 | 19.6      |
| 70°-80°   | 1165.4 | 12.4      |
| 80°-90°   | 167.6  | 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°    | 9407.0 | 100.0     |
| 0°-180°   | 9407.0 | 100.0     |

**Coefficient of Utilization**

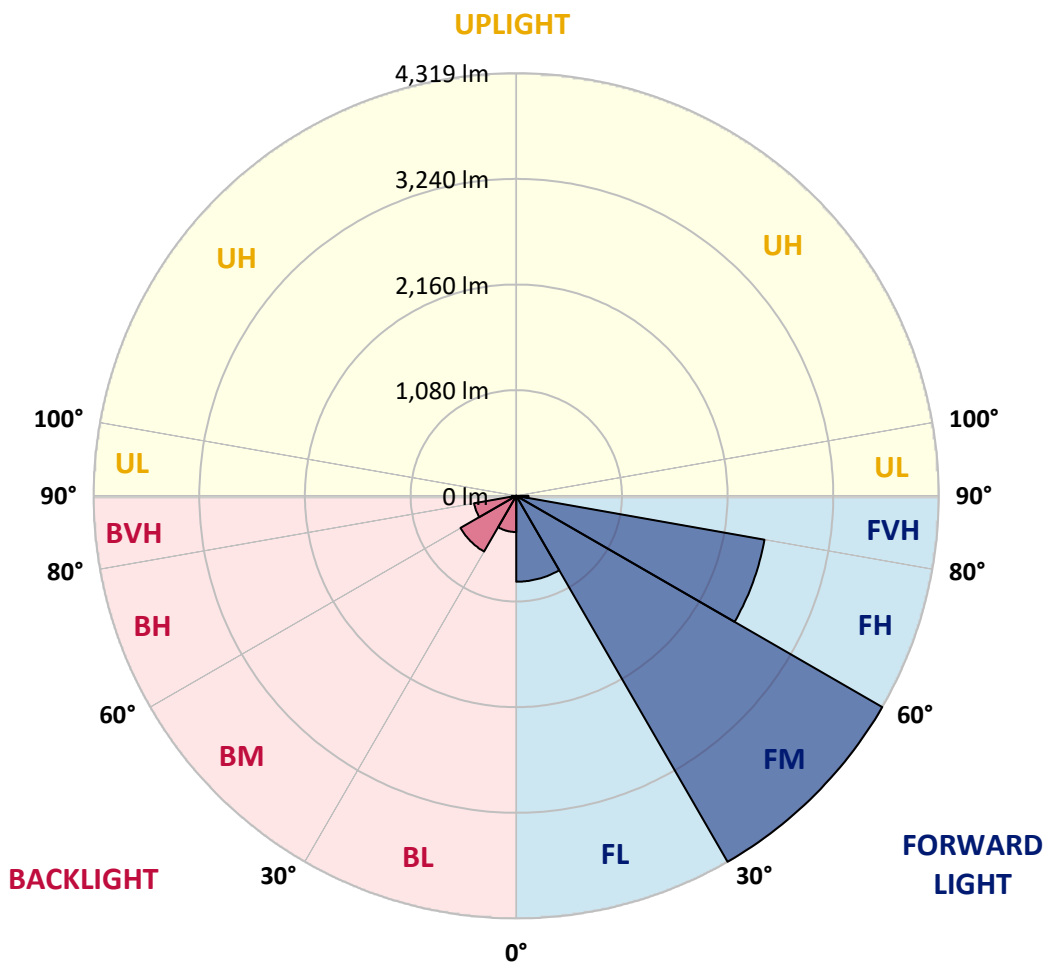


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 878.3  | 9.3       |                         |      |         |
| FM (30°-60°)   | 4319.5 | 45.9      |                         |      |         |
| FH (60°-80°)   | 2576.2 | 27.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 124.3  | 1.3       |                         |      | G2/225  |
| BL (0°-30°)    | 370.4  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 657.8  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 437.3  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 43.4   | 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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 |
| 2.5°  | 1485.4 | 1483.1 | 1476.3 | 1465.0 | 1456.0 | 1428.8 | 1392.6 | 1360.9 | 1313.3 | 1308.8 | 1261.2 |
| 5°    | 1619.0 | 1609.9 | 1609.9 | 1598.6 | 1587.3 | 1557.9 | 1512.6 | 1456.0 | 1388.0 | 1383.5 | 1292.9 |
| 7.5°  | 1682.4 | 1684.7 | 1680.1 | 1671.1 | 1673.3 | 1648.4 | 1607.7 | 1551.1 | 1458.2 | 1453.7 | 1336.0 |
| 10°   | 1773.0 | 1770.7 | 1761.6 | 1754.9 | 1752.6 | 1729.9 | 1693.7 | 1641.6 | 1544.3 | 1535.2 | 1385.8 |
| 12.5° | 1861.3 | 1854.5 | 1856.7 | 1854.5 | 1850.0 | 1827.3 | 1793.3 | 1741.3 | 1621.3 | 1616.7 | 1446.9 |
| 15°   | 1911.1 | 1908.8 | 1924.7 | 1929.2 | 1947.3 | 1926.9 | 1897.5 | 1838.6 | 1729.9 | 1711.8 | 1519.4 |
| 17.5° | 1942.8 | 1940.5 | 1956.4 | 1992.6 | 2026.6 | 2026.6 | 2017.5 | 1954.1 | 1834.1 | 1820.5 | 1600.9 |
| 20°   | 1997.1 | 2006.2 | 2033.4 | 2062.8 | 2112.6 | 2121.7 | 2119.4 | 2092.2 | 1954.1 | 1940.5 | 1691.5 |
| 22.5° | 2105.8 | 2101.3 | 2123.9 | 2169.2 | 2214.5 | 2228.1 | 2230.4 | 2230.4 | 2092.2 | 2067.3 | 1784.3 |
| 25°   | 2339.0 | 2327.7 | 2309.6 | 2305.1 | 2359.4 | 2357.2 | 2350.4 | 2366.2 | 2237.2 | 2219.0 | 1890.7 |
| 27.5° | 2782.9 | 2758.0 | 2687.8 | 2547.4 | 2515.7 | 2527.0 | 2493.0 | 2495.3 | 2402.5 | 2379.8 | 1981.3 |
| 30°   | 3204.0 | 3192.7 | 3127.0 | 2957.2 | 2778.3 | 2714.9 | 2656.1 | 2631.1 | 2585.9 | 2547.4 | 2078.7 |
| 32.5° | 3584.4 | 3586.7 | 3507.4 | 3321.8 | 3138.4 | 2939.1 | 2837.2 | 2785.1 | 2803.2 | 2769.3 | 2212.2 |
| 35°   | 3842.6 | 3822.2 | 3772.4 | 3647.8 | 3448.6 | 3258.4 | 3063.6 | 2948.2 | 3045.5 | 3007.0 | 2345.8 |
| 37.5° | 3994.3 | 3978.4 | 3937.7 | 3849.4 | 3749.7 | 3566.3 | 3319.5 | 3142.9 | 3333.1 | 3276.5 | 2515.7 |
| 40°   | 4071.3 | 4048.6 | 4007.9 | 3971.6 | 3924.1 | 3824.4 | 3607.1 | 3364.8 | 3595.8 | 3545.9 | 2683.2 |
| 42.5° | 4080.3 | 4064.5 | 4041.8 | 4023.7 | 4039.6 | 4026.0 | 3887.8 | 3622.9 | 3872.0 | 3817.7 | 2875.7 |
| 45°   | 4073.5 | 4084.8 | 4057.7 | 4026.0 | 4057.7 | 4173.2 | 4173.2 | 3881.1 | 4146.0 | 4105.2 | 3059.1 |
| 47.5° | 4078.1 | 4066.7 | 4057.7 | 4048.6 | 4053.1 | 4211.6 | 4370.2 | 4123.3 | 4408.6 | 4361.1 | 3274.2 |
| 50°   | 3890.1 | 3906.0 | 3983.0 | 4016.9 | 4037.3 | 4220.7 | 4528.7 | 4386.0 | 4734.7 | 4675.8 | 3514.2 |
| 52.5° | 3292.3 | 3301.4 | 3652.4 | 3906.0 | 3987.5 | 4184.5 | 4639.6 | 4678.1 | 5056.2 | 5011.0 | 3772.4 |
| 55°   | 2536.0 | 2583.6 | 2916.5 | 3536.9 | 3874.3 | 4123.3 | 4673.6 | 4868.3 | 5384.6 | 5348.3 | 4032.8 |
| 57.5° | 2087.7 | 2094.5 | 2287.0 | 2841.7 | 3516.5 | 4066.7 | 4707.5 | 5042.7 | 5678.9 | 5638.2 | 4304.5 |
| 60°   | 1732.2 | 1716.4 | 1834.1 | 2191.9 | 2921.0 | 3840.3 | 4714.3 | 5180.8 | 6020.8 | 6007.3 | 4585.3 |
| 62.5° | 1272.6 | 1290.7 | 1403.9 | 1707.3 | 2284.7 | 3380.6 | 4680.4 | 5298.5 | 6428.4 | 6410.3 | 4897.7 |
| 65°   | 781.2  | 803.8  | 942.0  | 1220.5 | 1729.9 | 2683.2 | 4458.5 | 5359.7 | 6856.4 | 6897.1 | 5235.1 |
| 67.5° | 414.4  | 430.2  | 511.7  | 738.2  | 1186.5 | 2044.7 | 3924.1 | 5282.7 | 7218.7 | 7236.8 | 5558.9 |
| 70°   | 303.4  | 305.7  | 332.9  | 416.6  | 715.5  | 1422.0 | 3124.8 | 4947.6 | 7440.6 | 7476.8 | 5665.3 |
| 72.5° | 264.9  | 267.2  | 278.5  | 298.9  | 389.5  | 867.2  | 2239.4 | 4363.4 | 7347.7 | 7316.0 | 5486.5 |
| 75°   | 240.0  | 240.0  | 249.1  | 255.9  | 285.3  | 480.0  | 1372.2 | 3570.8 | 6639.0 | 6568.8 | 4678.1 |
| 77.5° | 206.1  | 206.1  | 215.1  | 224.2  | 246.8  | 310.2  | 717.8  | 2647.0 | 5076.6 | 4956.6 | 3199.5 |
| 80°   | 165.3  | 165.3  | 176.6  | 187.9  | 217.4  | 233.2  | 351.0  | 1770.7 | 2902.9 | 2726.2 | 1456.0 |
| 82.5° | 113.2  | 122.3  | 142.7  | 156.2  | 181.1  | 165.3  | 206.1  | 765.3  | 914.8  | 792.5  | 328.3  |
| 85°   | 67.9   | 72.5   | 101.9  | 117.7  | 135.9  | 88.3   | 126.8  | 294.4  | 274.0  | 240.0  | 74.7   |
| 87.5° | 6.8    | 11.3   | 40.8   | 47.6   | 47.6   | 24.9   | 54.3   | 70.2   | 79.3   | 81.5   | 18.1   |
| 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°    | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 | 1234.1 |
| 2.5°  | 1234.1 | 1206.9 | 1154.8 | 1107.3 | 1059.7 | 1028.0 | 996.3  | 985.0  | 969.1  | 957.8  | 966.9  |
| 5°    | 1245.4 | 1188.8 | 1089.1 | 1005.4 | 948.8  | 905.7  | 885.4  | 874.0  | 865.0  | 862.7  | 860.4  |
| 7.5°  | 1259.0 | 1175.2 | 1041.6 | 948.8  | 894.4  | 874.0  | 869.5  | 869.5  | 869.5  | 871.8  | 874.0  |
| 10°   | 1288.4 | 1179.7 | 1016.7 | 917.1  | 887.6  | 883.1  | 885.4  | 894.4  | 894.4  | 896.7  | 896.7  |
| 12.5° | 1322.4 | 1191.0 | 998.6  | 912.5  | 894.4  | 896.7  | 898.9  | 903.5  | 903.5  | 910.3  | 908.0  |
| 15°   | 1372.2 | 1213.7 | 996.3  | 917.1  | 901.2  | 896.7  | 896.7  | 894.4  | 894.4  | 894.4  | 898.9  |
| 17.5° | 1435.6 | 1245.4 | 998.6  | 917.1  | 894.4  | 885.4  | 878.6  | 871.8  | 862.7  | 867.2  | 862.7  |
| 20°   | 1499.0 | 1283.9 | 998.6  | 905.7  | 876.3  | 853.7  | 833.3  | 822.0  | 810.6  | 808.4  | 810.6  |
| 22.5° | 1578.2 | 1329.2 | 987.2  | 880.8  | 837.8  | 806.1  | 776.7  | 760.8  | 742.7  | 735.9  | 731.4  |
| 25°   | 1646.2 | 1365.4 | 964.6  | 844.6  | 794.8  | 749.5  | 711.0  | 683.8  | 661.2  | 656.7  | 656.7  |
| 27.5° | 1716.4 | 1397.1 | 930.6  | 799.3  | 733.6  | 683.8  | 640.8  | 606.8  | 584.2  | 581.9  | 579.7  |
| 30°   | 1782.0 | 1424.3 | 885.4  | 749.5  | 679.3  | 620.4  | 570.6  | 541.2  | 520.8  | 509.5  | 502.7  |
| 32.5° | 1868.1 | 1460.5 | 842.3  | 699.7  | 615.9  | 557.0  | 511.7  | 486.8  | 459.7  | 441.5  | 434.8  |
| 35°   | 1976.8 | 1503.5 | 794.8  | 645.3  | 559.3  | 500.4  | 473.2  | 437.0  | 403.1  | 382.7  | 375.9  |
| 37.5° | 2099.0 | 1564.6 | 745.0  | 588.7  | 502.7  | 459.7  | 443.8  | 387.2  | 351.0  | 344.2  | 341.9  |
| 40°   | 2250.7 | 1623.5 | 688.4  | 529.9  | 448.3  | 437.0  | 409.8  | 351.0  | 332.9  | 330.6  | 328.3  |
| 42.5° | 2402.5 | 1686.9 | 634.0  | 471.0  | 405.3  | 409.8  | 371.3  | 341.9  | 326.1  | 321.5  | 319.3  |
| 45°   | 2579.1 | 1750.3 | 579.7  | 418.9  | 371.3  | 371.3  | 351.0  | 332.9  | 319.3  | 314.7  | 314.7  |
| 47.5° | 2764.7 | 1813.7 | 520.8  | 373.6  | 346.4  | 332.9  | 335.1  | 321.5  | 312.5  | 307.9  | 305.7  |
| 50°   | 2998.0 | 1874.9 | 466.5  | 341.9  | 330.6  | 312.5  | 319.3  | 310.2  | 305.7  | 301.2  | 298.9  |
| 52.5° | 3217.6 | 1902.0 | 416.6  | 323.8  | 321.5  | 303.4  | 305.7  | 301.2  | 298.9  | 292.1  | 289.8  |
| 55°   | 3432.7 | 1895.2 | 378.1  | 314.7  | 310.2  | 301.2  | 296.6  | 294.4  | 292.1  | 285.3  | 283.0  |
| 57.5° | 3672.7 | 1886.2 | 353.2  | 312.5  | 303.4  | 294.4  | 294.4  | 287.6  | 278.5  | 278.5  | 278.5  |
| 60°   | 3921.8 | 1856.7 | 341.9  | 312.5  | 301.2  | 294.4  | 289.8  | 283.0  | 274.0  | 276.2  | 274.0  |
| 62.5° | 4202.6 | 1800.1 | 335.1  | 319.3  | 303.4  | 292.1  | 287.6  | 278.5  | 267.2  | 269.5  | 267.2  |
| 65°   | 4449.4 | 1684.7 | 330.6  | 326.1  | 307.9  | 294.4  | 283.0  | 271.7  | 258.1  | 260.4  | 258.1  |
| 67.5° | 4617.0 | 1489.9 | 317.0  | 330.6  | 314.7  | 292.1  | 278.5  | 262.7  | 244.5  | 253.6  | 251.3  |
| 70°   | 4569.4 | 1211.4 | 292.1  | 321.5  | 321.5  | 294.4  | 271.7  | 251.3  | 231.0  | 249.1  | 242.3  |
| 72.5° | 4200.3 | 910.3  | 244.5  | 289.8  | 317.0  | 294.4  | 258.1  | 233.2  | 215.1  | 226.4  | 212.8  |
| 75°   | 3448.6 | 618.2  | 194.7  | 231.0  | 296.6  | 296.6  | 246.8  | 215.1  | 192.5  | 185.7  | 181.1  |
| 77.5° | 2151.1 | 384.9  | 151.7  | 169.8  | 249.1  | 294.4  | 235.5  | 192.5  | 160.8  | 156.2  | 151.7  |
| 80°   | 851.4  | 206.1  | 120.0  | 122.3  | 183.4  | 269.5  | 219.6  | 163.0  | 129.1  | 124.5  | 115.5  |
| 82.5° | 194.7  | 104.2  | 83.8   | 81.5   | 113.2  | 219.6  | 199.3  | 129.1  | 99.6   | 99.6   | 83.8   |
| 85°   | 58.9   | 54.3   | 54.3   | 52.1   | 56.6   | 113.2  | 154.0  | 88.3   | 67.9   | 47.6   | 40.8   |
| 87.5° | 15.9   | 22.6   | 20.4   | 18.1   | 18.1   | 15.9   | 49.8   | 22.6   | 13.6   | 6.8    | 4.5    |
| 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)