

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: P595151

Luminaire Tested: **IST-PA1C-750-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1C-750-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4805 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

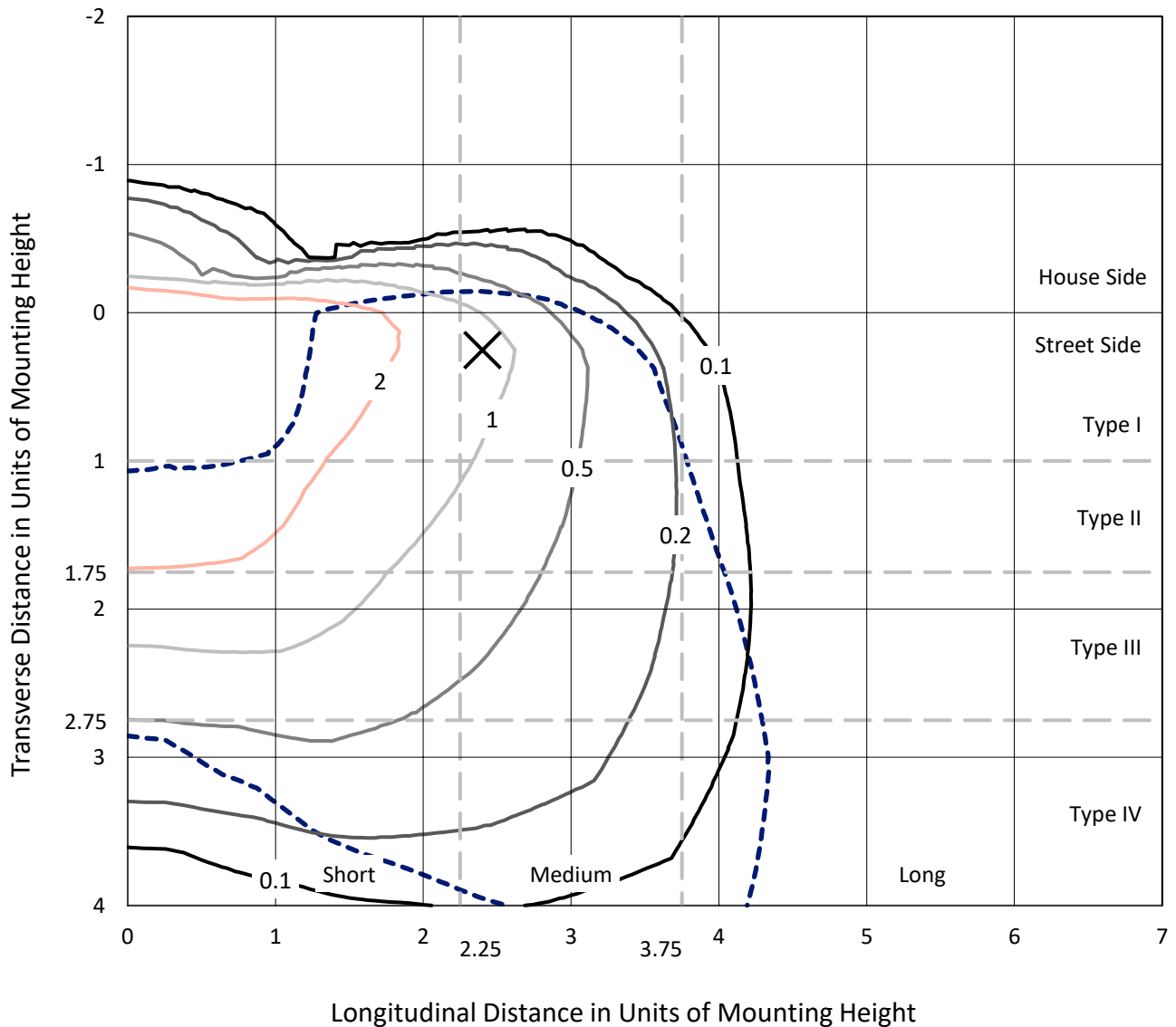
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

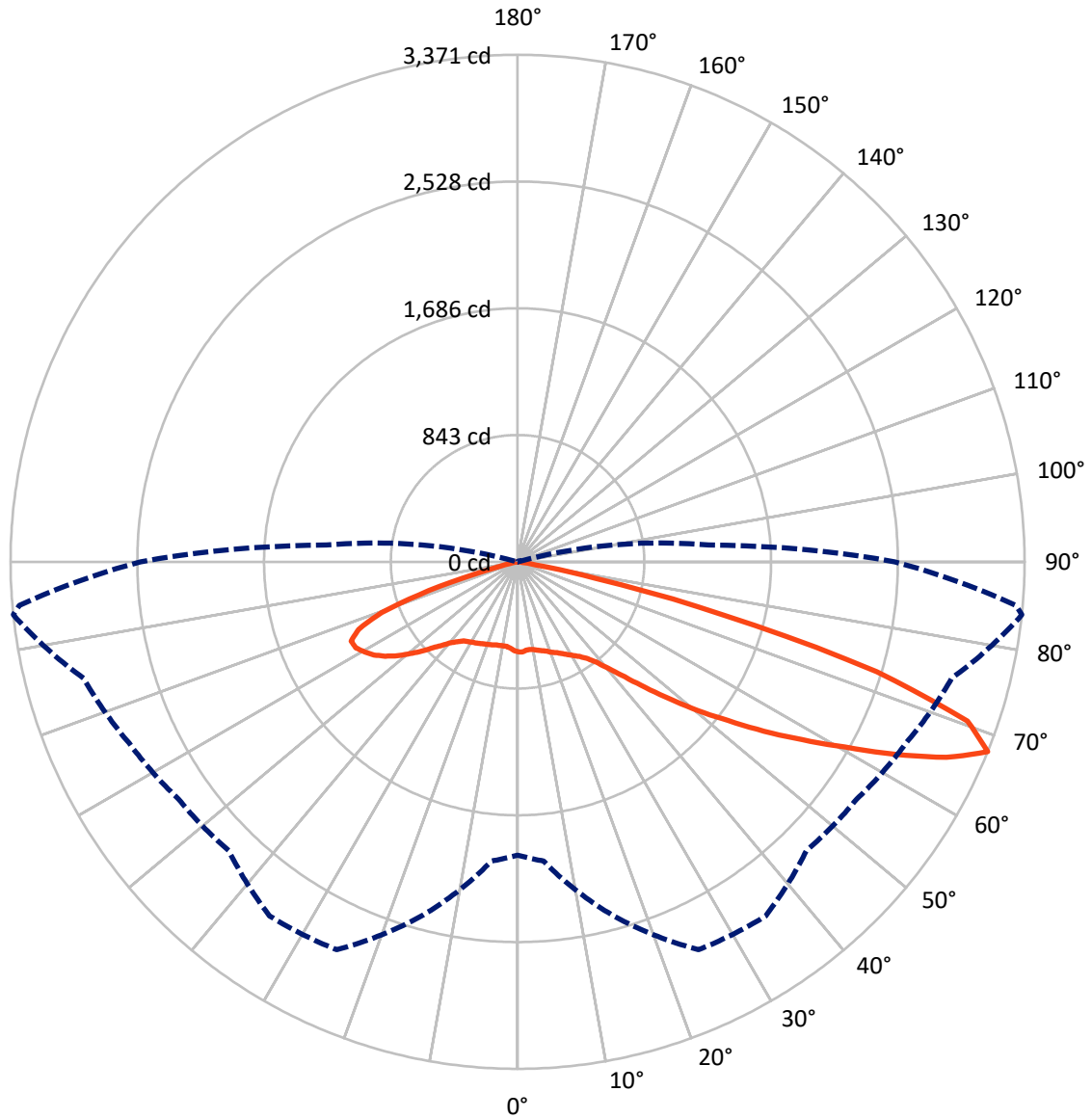
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 418.3    | 0.0    | 418.3  |
|                    | % Fixture | 8.7      | 0.0    | 8.7    |
| <b>Street Side</b> | Lumens    | 4386.6   | 0.0    | 4386.6 |
|                    | % Fixture | 91.3     | 0.0    | 91.3   |
| <b>Total</b>       | Lumens    | 4805.0   | 0.0    | 4805.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.7   | 1.1       |
| 10°-20°   | 140.4  | 2.9       |
| 20°-30°   | 224.9  | 4.7       |
| 30°-40°   | 323.6  | 6.7       |
| 40°-50°   | 555.4  | 11.6      |
| 50°-60°   | 970.4  | 20.2      |
| 60°-70°   | 1389.7 | 28.9      |
| 70°-80°   | 1044.5 | 21.7      |
| 80°-90°   | 102.5  | 2.1       |
| 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°    | 4805.0 | 100.0     |
| 0°-180°   | 4805.0 | 100.0     |

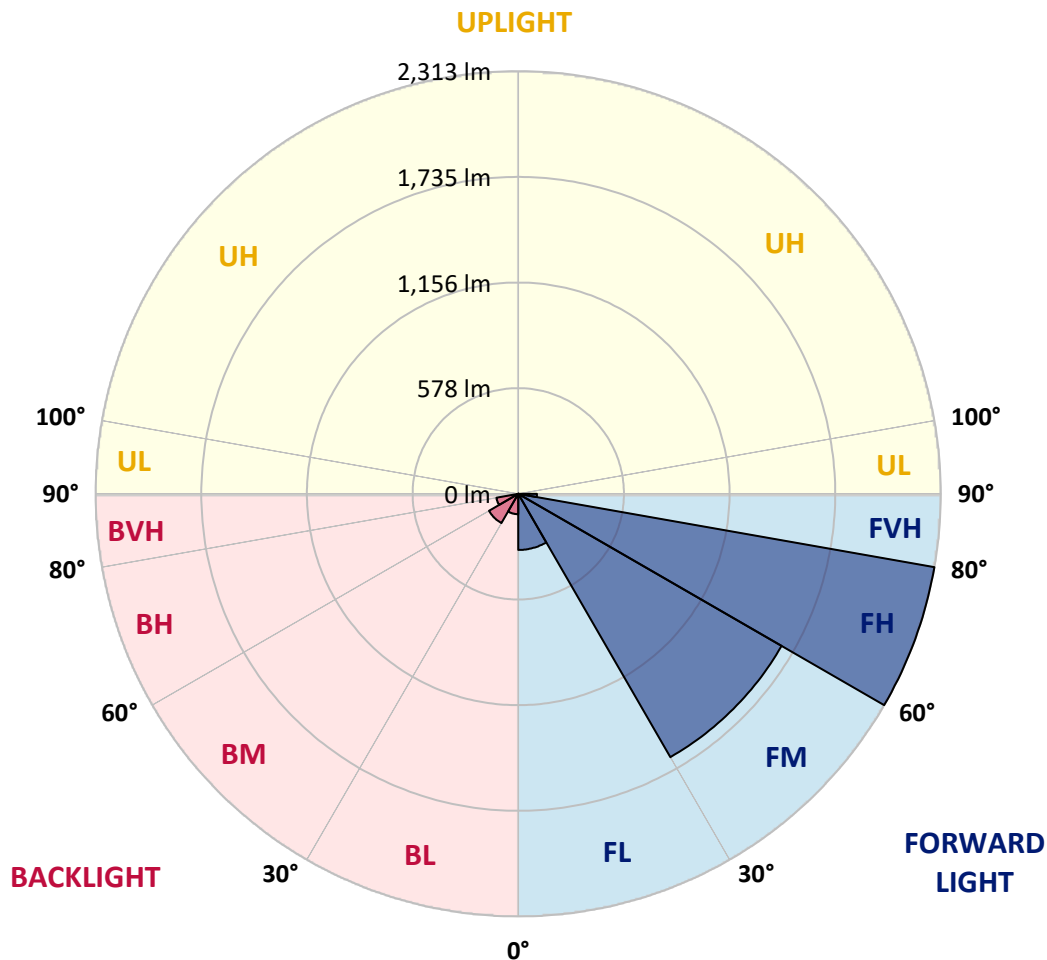


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 307.2  | 6.4       |                         |      |         |
| FM (30°-60°)   | 1664.4 | 34.6      |                         |      |         |
| FH (60°-80°)   | 2312.8 | 48.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 102.2  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 111.7  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 185.0  | 3.9       | B0/220                  |      |         |
| BH (60°-80°)   | 121.3  | 2.5       | B1/500                  |      | G1/500  |
| 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-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  | 598.6  |
| 2.5°  | 632.7  | 636.0  | 637.6  | 629.5  | 629.5  | 623.0  | 613.2  | 610.0  | 605.1  | 600.3  | 598.6  |
| 5°    | 665.2  | 670.0  | 668.4  | 658.7  | 653.8  | 640.8  | 627.8  | 614.9  | 601.9  | 590.5  | 590.5  |
| 7.5°  | 702.5  | 704.1  | 699.2  | 683.0  | 673.3  | 655.4  | 636.0  | 621.4  | 605.1  | 588.9  | 585.7  |
| 10°   | 734.9  | 733.3  | 726.8  | 710.6  | 692.7  | 670.0  | 648.9  | 632.7  | 613.2  | 593.8  | 592.2  |
| 12.5° | 757.6  | 759.3  | 751.1  | 728.4  | 710.6  | 684.6  | 663.5  | 647.3  | 624.6  | 603.5  | 598.6  |
| 15°   | 777.1  | 782.0  | 772.2  | 749.5  | 723.6  | 700.9  | 684.6  | 663.5  | 637.6  | 613.2  | 610.0  |
| 17.5° | 794.9  | 796.6  | 788.5  | 762.5  | 738.2  | 718.7  | 700.9  | 681.4  | 655.4  | 624.6  | 621.4  |
| 20°   | 804.7  | 809.5  | 804.7  | 772.2  | 749.5  | 734.9  | 720.3  | 700.9  | 671.7  | 642.4  | 639.2  |
| 22.5° | 811.2  | 816.0  | 814.4  | 778.7  | 759.3  | 747.9  | 734.9  | 717.1  | 689.5  | 655.4  | 652.2  |
| 25°   | 814.4  | 817.7  | 820.9  | 785.2  | 769.0  | 764.1  | 752.8  | 736.5  | 710.6  | 674.9  | 671.7  |
| 27.5° | 819.3  | 822.5  | 825.8  | 793.3  | 786.8  | 782.0  | 778.7  | 765.7  | 734.9  | 697.6  | 692.7  |
| 30°   | 827.4  | 832.3  | 835.5  | 807.9  | 807.9  | 812.8  | 812.8  | 794.9  | 760.9  | 721.9  | 718.7  |
| 32.5° | 837.1  | 838.8  | 845.2  | 822.5  | 830.6  | 842.0  | 838.8  | 820.9  | 785.2  | 749.5  | 744.7  |
| 35°   | 863.1  | 863.1  | 874.4  | 845.2  | 855.0  | 864.7  | 868.0  | 855.0  | 822.5  | 786.8  | 785.2  |
| 37.5° | 926.4  | 926.4  | 936.1  | 889.0  | 887.4  | 897.2  | 908.5  | 908.5  | 876.1  | 843.6  | 840.4  |
| 40°   | 1069.1 | 1069.1 | 1069.1 | 960.4  | 942.6  | 953.9  | 971.8  | 981.5  | 953.9  | 931.2  | 931.2  |
| 42.5° | 1307.6 | 1309.2 | 1284.9 | 1091.8 | 1015.6 | 1035.1 | 1054.5 | 1075.6 | 1061.0 | 1044.8 | 1041.5 |
| 45°   | 1554.2 | 1546.1 | 1542.8 | 1284.9 | 1145.4 | 1135.6 | 1160.0 | 1195.7 | 1200.5 | 1190.8 | 1197.3 |
| 47.5° | 1722.9 | 1731.0 | 1735.9 | 1525.0 | 1327.1 | 1260.6 | 1283.3 | 1333.6 | 1362.8 | 1361.1 | 1370.9 |
| 50°   | 1886.8 | 1891.7 | 1896.5 | 1789.4 | 1567.2 | 1417.9 | 1432.5 | 1500.7 | 1541.2 | 1554.2 | 1560.7 |
| 52.5° | 2029.6 | 2016.6 | 2037.7 | 2023.1 | 1821.9 | 1598.0 | 1598.0 | 1675.9 | 1748.9 | 1753.8 | 1752.1 |
| 55°   | 2071.7 | 2079.8 | 2143.1 | 2186.9 | 2083.1 | 1818.6 | 1786.2 | 1868.9 | 1946.8 | 1987.4 | 1987.4 |
| 57.5° | 2165.8 | 2173.9 | 2250.2 | 2349.2 | 2272.9 | 2036.0 | 1987.4 | 2068.5 | 2152.9 | 2230.7 | 2242.1 |
| 60°   | 2289.1 | 2290.8 | 2371.9 | 2522.7 | 2417.3 | 2232.3 | 2191.8 | 2284.3 | 2368.6 | 2501.7 | 2539.0 |
| 62.5° | 2355.6 | 2362.1 | 2474.1 | 2672.0 | 2599.0 | 2404.3 | 2394.6 | 2478.9 | 2587.6 | 2821.3 | 2855.3 |
| 65°   | 2253.4 | 2295.6 | 2539.0 | 2761.2 | 2746.6 | 2564.9 | 2599.0 | 2667.1 | 2792.1 | 3134.4 | 3166.8 |
| 67.5° | 1950.1 | 1997.1 | 2431.9 | 2845.6 | 2874.8 | 2715.8 | 2751.5 | 2850.5 | 2988.4 | 3371.2 | 3325.8 |
| 70°   | 1795.9 | 1834.9 | 2172.3 | 2892.6 | 2981.9 | 2884.5 | 2900.8 | 2993.2 | 3033.8 | 3173.3 | 3124.6 |
| 72.5° | 1361.1 | 1401.7 | 1838.1 | 2732.0 | 3074.3 | 3061.4 | 3020.8 | 2944.6 | 2704.4 | 2496.8 | 2378.4 |
| 75°   | 601.9  | 648.9  | 1223.2 | 2135.0 | 2845.6 | 3161.9 | 2947.8 | 2521.1 | 1941.9 | 1417.9 | 1314.1 |
| 77.5° | 266.1  | 293.6  | 473.7  | 1185.9 | 2138.2 | 2736.9 | 2331.3 | 1680.7 | 975.0  | 527.3  | 489.9  |
| 80°   | 86.0   | 89.2   | 149.3  | 415.3  | 1093.5 | 1812.2 | 1427.7 | 807.9  | 300.1  | 123.3  | 115.2  |
| 82.5° | 34.1   | 37.3   | 71.4   | 175.2  | 452.6  | 720.3  | 700.9  | 292.0  | 87.6   | 32.4   | 32.4   |
| 85°   | 9.7    | 11.4   | 35.7   | 92.5   | 160.6  | 202.8  | 248.2  | 97.3   | 47.0   | 9.7    | 9.7    |
| 87.5° | 3.2    | 3.2    | 13.0   | 29.2   | 30.8   | 21.1   | 47.0   | 37.3   | 29.2   | 3.2    | 3.2    |
| 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°    | 598.6  | 598.6  | 598.6 | 598.6 | 598.6 | 598.6 | 598.6 | 598.6 | 598.6 | 598.6 | 598.6 |
| 2.5°  | 595.4  | 592.2  | 584.0 | 577.6 | 574.3 | 569.4 | 563.0 | 559.7 | 559.7 | 558.1 | 553.2 |
| 5°    | 584.0  | 579.2  | 564.6 | 554.8 | 546.7 | 528.9 | 515.9 | 499.7 | 483.5 | 478.6 | 483.5 |
| 7.5°  | 579.2  | 569.4  | 550.0 | 530.5 | 496.4 | 449.4 | 418.6 | 384.5 | 373.1 | 358.5 | 360.2 |
| 10°   | 580.8  | 569.4  | 541.9 | 498.1 | 431.5 | 361.8 | 313.1 | 267.7 | 245.0 | 233.6 | 235.2 |
| 12.5° | 585.7  | 572.7  | 533.8 | 454.3 | 358.5 | 274.2 | 199.5 | 163.9 | 157.4 | 157.4 | 157.4 |
| 15°   | 595.4  | 575.9  | 520.8 | 402.3 | 280.7 | 181.7 | 141.1 | 137.9 | 142.8 | 147.6 | 149.3 |
| 17.5° | 605.1  | 585.7  | 501.3 | 348.8 | 204.4 | 136.3 | 131.4 | 131.4 | 136.3 | 141.1 | 142.8 |
| 20°   | 616.5  | 595.4  | 473.7 | 292.0 | 146.0 | 128.2 | 126.5 | 124.9 | 128.2 | 133.0 | 134.7 |
| 22.5° | 634.3  | 605.1  | 441.3 | 225.5 | 126.5 | 123.3 | 120.1 | 118.4 | 120.1 | 124.9 | 126.5 |
| 25°   | 650.6  | 618.1  | 407.2 | 167.1 | 118.4 | 115.2 | 113.6 | 111.9 | 111.9 | 115.2 | 116.8 |
| 27.5° | 670.0  | 632.7  | 369.9 | 124.9 | 108.7 | 107.1 | 105.5 | 103.8 | 102.2 | 105.5 | 107.1 |
| 30°   | 694.4  | 645.7  | 329.3 | 105.5 | 99.0  | 97.3  | 95.7  | 94.1  | 92.5  | 94.1  | 95.7  |
| 32.5° | 725.2  | 663.5  | 282.3 | 95.7  | 90.9  | 86.0  | 84.4  | 84.4  | 82.7  | 82.7  | 84.4  |
| 35°   | 765.7  | 683.0  | 232.0 | 89.2  | 82.7  | 77.9  | 73.0  | 71.4  | 71.4  | 71.4  | 73.0  |
| 37.5° | 825.8  | 718.7  | 183.3 | 82.7  | 76.3  | 68.1  | 63.3  | 58.4  | 58.4  | 58.4  | 58.4  |
| 40°   | 908.5  | 757.6  | 142.8 | 77.9  | 71.4  | 60.0  | 53.5  | 47.0  | 43.8  | 42.2  | 43.8  |
| 42.5° | 1036.7 | 816.0  | 110.3 | 71.4  | 68.1  | 53.5  | 43.8  | 35.7  | 29.2  | 27.6  | 29.2  |
| 45°   | 1177.8 | 879.3  | 87.6  | 66.5  | 61.6  | 45.4  | 34.1  | 24.3  | 17.8  | 16.2  | 17.8  |
| 47.5° | 1356.3 | 958.8  | 74.6  | 60.0  | 53.5  | 37.3  | 24.3  | 13.0  | 8.1   | 9.7   | 9.7   |
| 50°   | 1528.2 | 1036.7 | 68.1  | 55.2  | 47.0  | 30.8  | 14.6  | 6.5   | 3.2   | 4.9   | 4.9   |
| 52.5° | 1718.1 | 1119.4 | 63.3  | 48.7  | 40.6  | 22.7  | 8.1   | 1.6   | 0.0   | 1.6   | 1.6   |
| 55°   | 1909.5 | 1194.0 | 58.4  | 43.8  | 32.4  | 16.2  | 3.2   | 0.0   | 0.0   | 0.0   | 1.6   |
| 57.5° | 2117.2 | 1257.3 | 53.5  | 37.3  | 24.3  | 9.7   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 2290.8 | 1306.0 | 48.7  | 32.4  | 16.2  | 4.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 2449.7 | 1349.8 | 37.3  | 24.3  | 9.7   | 3.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 2555.2 | 1359.5 | 26.0  | 16.2  | 6.5   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2508.1 | 1275.2 | 16.2  | 11.4  | 3.2   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2204.8 | 1070.7 | 11.4  | 6.5   | 1.6   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1542.8 | 691.1  | 9.7   | 4.9   | 1.6   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 814.4  | 249.8  | 6.5   | 3.2   | 1.6   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 288.8  | 55.2   | 3.2   | 1.6   | 0.0   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 63.3   | 11.4   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 17.8   | 3.2    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.9    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.6    | 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)