

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: P595133

Luminaire Tested: **IST-PA1C-735-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595133
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-735-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 4476 lumens
Efficiency: N/A
Efficacy: 92.7 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

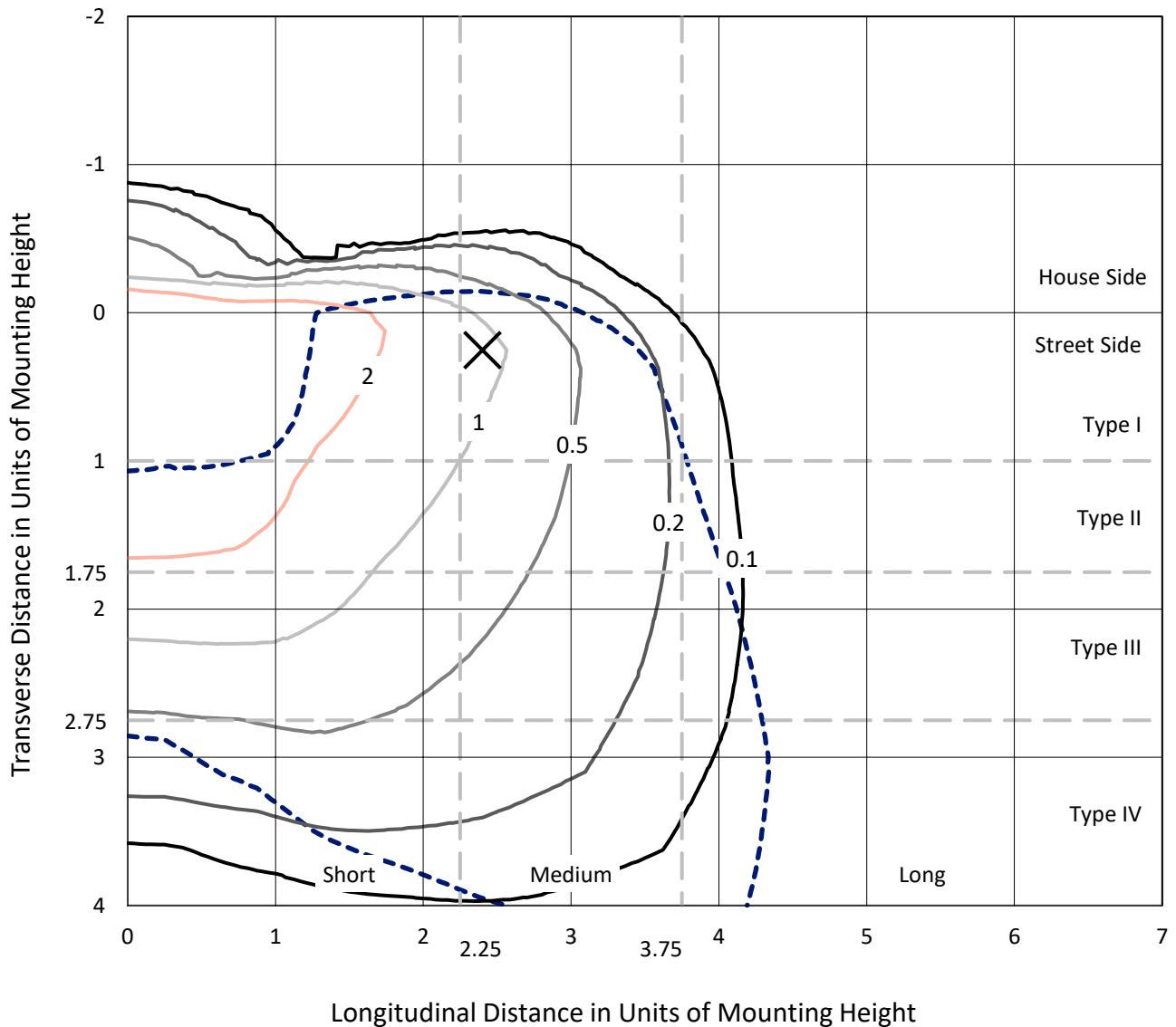
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

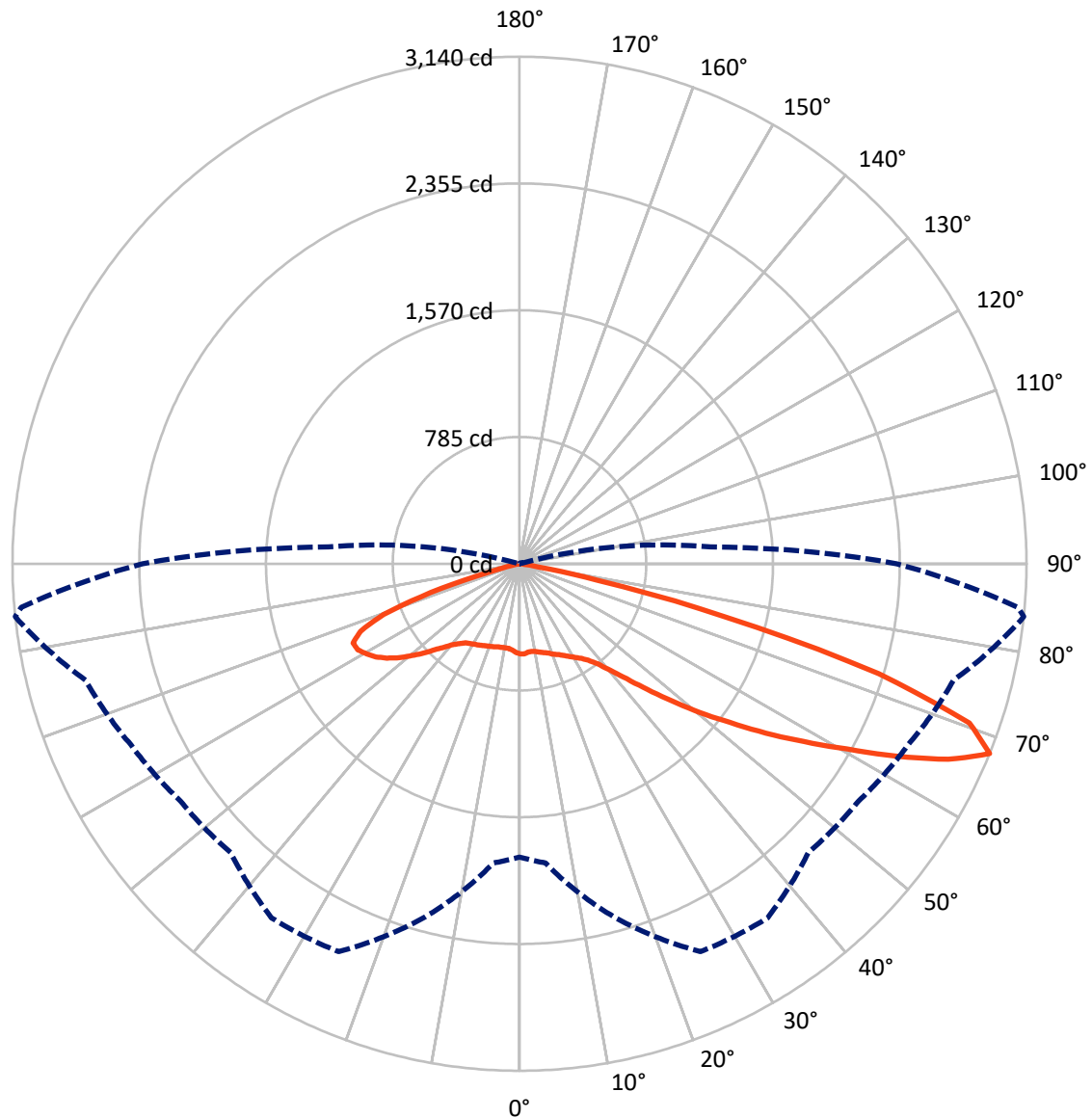
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 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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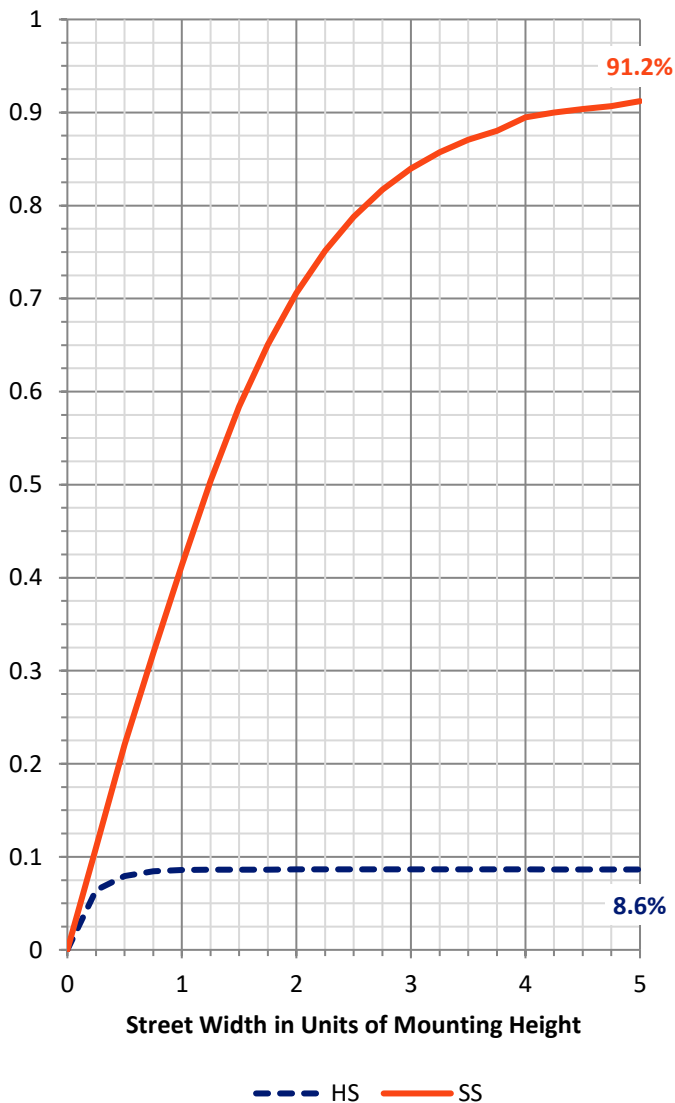
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 389.7 | 0.0 | 389.7 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 4086.3 | 0.0 | 4086.3 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 4476.0 | 0.0 | 4476.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.0 | 1.1 |
| 10°-20° | 130.8 | 2.9 |
| 20°-30° | 209.5 | 4.7 |
| 30°-40° | 301.4 | 6.7 |
| 40°-50° | 517.4 | 11.6 |
| 50°-60° | 904.0 | 20.2 |
| 60°-70° | 1294.5 | 28.9 |
| 70°-80° | 973.0 | 21.7 |
| 80°-90° | 95.5 | 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° | 4476.0 | 100.0 |
| 0°-180° | 4476.0 | 100.0 |

Coefficient of Utilization

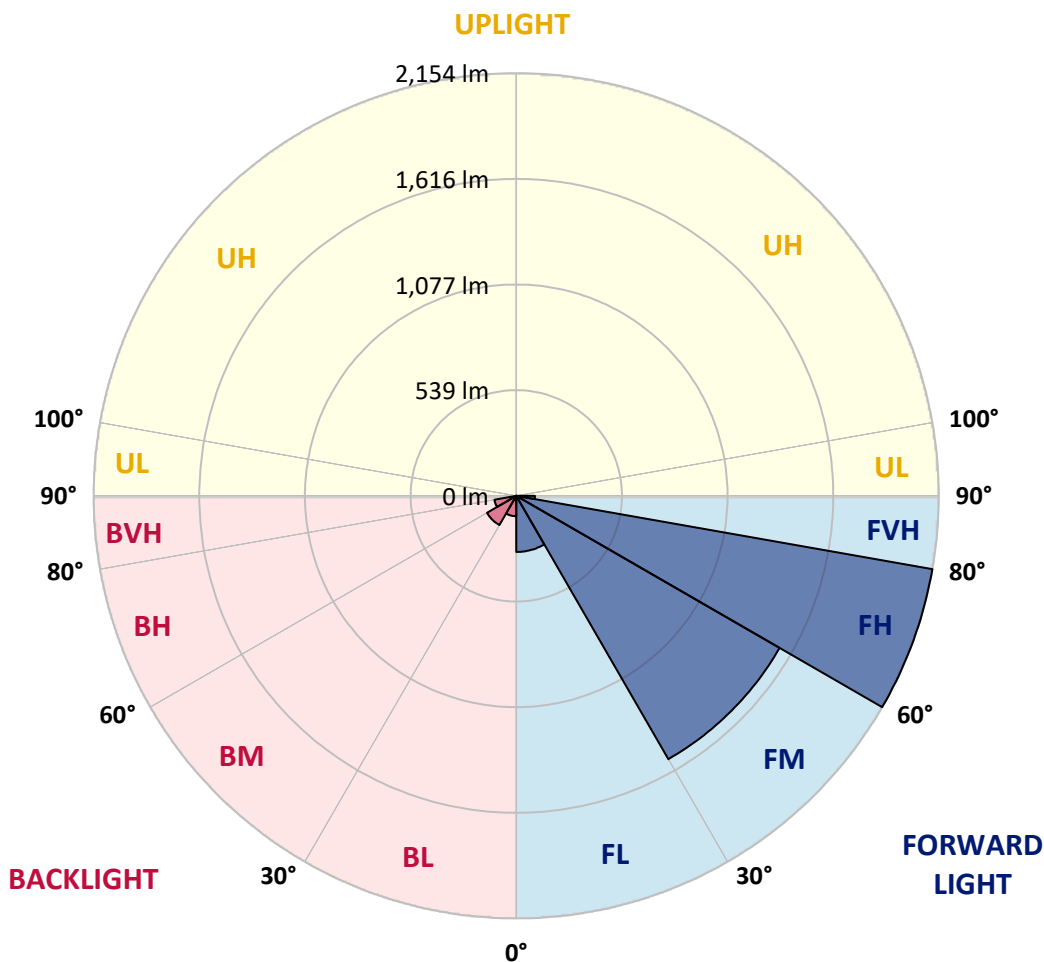


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 286.2 | 6.4 | | | |
| FM (30°-60°) | 1550.4 | 34.6 | | | |
| FH (60°-80°) | 2154.5 | 48.1 | | | G2/5000 |
| FVH (80°-90°) | 95.2 | 2.1 | | | G1/100 |
| BL (0°-30°) | 104.1 | 2.3 | B0/110 | | |
| BM (30°-60°) | 172.3 | 3.9 | B0/220 | | |
| BH (60°-80°) | 113.0 | 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° | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 |
| 2.5° | 589.4 | 592.4 | 593.9 | 586.4 | 586.4 | 580.3 | 571.3 | 568.2 | 563.7 | 559.2 | 557.7 |
| 5° | 619.6 | 624.2 | 622.6 | 613.6 | 609.0 | 596.9 | 584.9 | 572.8 | 560.7 | 550.1 | 550.1 |
| 7.5° | 654.4 | 655.9 | 651.4 | 636.2 | 627.2 | 610.5 | 592.4 | 578.8 | 563.7 | 548.6 | 545.6 |
| 10° | 684.6 | 683.1 | 677.0 | 661.9 | 645.3 | 624.2 | 604.5 | 589.4 | 571.3 | 553.1 | 551.6 |
| 12.5° | 705.8 | 707.3 | 699.7 | 678.6 | 661.9 | 637.8 | 618.1 | 603.0 | 581.8 | 562.2 | 557.7 |
| 15° | 723.9 | 728.4 | 719.4 | 698.2 | 674.0 | 652.9 | 637.8 | 618.1 | 593.9 | 571.3 | 568.2 |
| 17.5° | 740.5 | 742.0 | 734.5 | 710.3 | 687.6 | 669.5 | 652.9 | 634.7 | 610.5 | 581.8 | 578.8 |
| 20° | 749.6 | 754.1 | 749.6 | 719.4 | 698.2 | 684.6 | 671.0 | 652.9 | 625.7 | 598.5 | 595.4 |
| 22.5° | 755.6 | 760.2 | 758.7 | 725.4 | 707.3 | 696.7 | 684.6 | 668.0 | 642.3 | 610.5 | 607.5 |
| 25° | 758.7 | 761.7 | 764.7 | 731.5 | 716.3 | 711.8 | 701.2 | 686.1 | 661.9 | 628.7 | 625.7 |
| 27.5° | 763.2 | 766.2 | 769.2 | 739.0 | 733.0 | 728.4 | 725.4 | 713.3 | 684.6 | 649.8 | 645.3 |
| 30° | 770.7 | 775.3 | 778.3 | 752.6 | 752.6 | 757.1 | 757.1 | 740.5 | 708.8 | 672.5 | 669.5 |
| 32.5° | 779.8 | 781.3 | 787.4 | 766.2 | 773.8 | 784.3 | 781.3 | 764.7 | 731.5 | 698.2 | 693.7 |
| 35° | 804.0 | 804.0 | 814.6 | 787.4 | 796.4 | 805.5 | 808.5 | 796.4 | 766.2 | 733.0 | 731.5 |
| 37.5° | 862.9 | 862.9 | 872.0 | 828.2 | 826.7 | 835.7 | 846.3 | 846.3 | 816.1 | 785.9 | 782.8 |
| 40° | 995.9 | 995.9 | 995.9 | 894.7 | 878.0 | 888.6 | 905.2 | 914.3 | 888.6 | 867.5 | 867.5 |
| 42.5° | 1218.1 | 1219.6 | 1196.9 | 1017.1 | 946.0 | 964.2 | 982.3 | 1002.0 | 988.4 | 973.3 | 970.2 |
| 45° | 1447.8 | 1440.2 | 1437.2 | 1196.9 | 1067.0 | 1057.9 | 1080.6 | 1113.8 | 1118.3 | 1109.3 | 1115.3 |
| 47.5° | 1605.0 | 1612.5 | 1617.1 | 1420.6 | 1236.2 | 1174.3 | 1195.4 | 1242.3 | 1269.5 | 1267.9 | 1277.0 |
| 50° | 1757.6 | 1762.1 | 1766.7 | 1666.9 | 1459.9 | 1320.8 | 1334.4 | 1397.9 | 1435.7 | 1447.8 | 1453.8 |
| 52.5° | 1890.6 | 1878.5 | 1898.1 | 1884.5 | 1697.1 | 1488.6 | 1488.6 | 1561.1 | 1629.1 | 1633.7 | 1632.2 |
| 55° | 1929.9 | 1937.4 | 1996.4 | 2037.2 | 1940.5 | 1694.1 | 1663.9 | 1741.0 | 1813.5 | 1851.3 | 1851.3 |
| 57.5° | 2017.5 | 2025.1 | 2096.1 | 2188.3 | 2117.3 | 1896.6 | 1851.3 | 1926.9 | 2005.4 | 2078.0 | 2088.6 |
| 60° | 2132.4 | 2133.9 | 2209.5 | 2350.0 | 2251.8 | 2079.5 | 2041.7 | 2127.9 | 2206.4 | 2330.4 | 2365.1 |
| 62.5° | 2194.4 | 2200.4 | 2304.7 | 2489.0 | 2421.0 | 2239.7 | 2230.6 | 2309.2 | 2410.5 | 2628.1 | 2659.8 |
| 65° | 2099.1 | 2138.4 | 2365.1 | 2572.2 | 2558.6 | 2389.3 | 2421.0 | 2484.5 | 2600.9 | 2919.8 | 2950.0 |
| 67.5° | 1816.5 | 1860.4 | 2265.4 | 2650.8 | 2678.0 | 2529.9 | 2563.1 | 2655.3 | 2783.7 | 3140.4 | 3098.1 |
| 70° | 1673.0 | 1709.2 | 2023.6 | 2694.6 | 2777.7 | 2687.0 | 2702.1 | 2788.3 | 2826.1 | 2956.0 | 2910.7 |
| 72.5° | 1267.9 | 1305.7 | 1712.3 | 2545.0 | 2863.8 | 2851.8 | 2814.0 | 2742.9 | 2519.3 | 2325.8 | 2215.5 |
| 75° | 560.7 | 604.5 | 1139.5 | 1988.8 | 2650.8 | 2945.4 | 2746.0 | 2348.5 | 1809.0 | 1320.8 | 1224.1 |
| 77.5° | 247.8 | 273.5 | 441.3 | 1104.7 | 1991.8 | 2549.5 | 2171.7 | 1565.7 | 908.3 | 491.2 | 456.4 |
| 80° | 80.1 | 83.1 | 139.0 | 386.9 | 1018.6 | 1688.1 | 1329.9 | 752.6 | 279.6 | 114.9 | 107.3 |
| 82.5° | 31.7 | 34.8 | 66.5 | 163.2 | 421.6 | 671.0 | 652.9 | 272.0 | 81.6 | 30.2 | 30.2 |
| 85° | 9.1 | 10.6 | 33.2 | 86.1 | 149.6 | 188.9 | 231.2 | 90.7 | 43.8 | 9.1 | 9.1 |
| 87.5° | 3.0 | 3.0 | 12.1 | 27.2 | 28.7 | 19.6 | 43.8 | 34.8 | 27.2 | 3.0 | 3.0 |
| 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° | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 |
| 2.5° | 554.6 | 551.6 | 544.1 | 538.0 | 535.0 | 530.5 | 524.4 | 521.4 | 521.4 | 519.9 | 515.3 |
| 5° | 544.1 | 539.5 | 525.9 | 516.9 | 509.3 | 492.7 | 480.6 | 465.5 | 450.4 | 445.8 | 450.4 |
| 7.5° | 539.5 | 530.5 | 512.3 | 494.2 | 462.4 | 418.6 | 389.9 | 358.2 | 347.6 | 334.0 | 335.5 |
| 10° | 541.0 | 530.5 | 504.8 | 464.0 | 402.0 | 337.0 | 291.7 | 249.4 | 228.2 | 217.6 | 219.1 |
| 12.5° | 545.6 | 533.5 | 497.2 | 423.2 | 334.0 | 255.4 | 185.9 | 152.6 | 146.6 | 146.6 | 146.6 |
| 15° | 554.6 | 536.5 | 485.1 | 374.8 | 261.4 | 169.3 | 131.5 | 128.5 | 133.0 | 137.5 | 139.0 |
| 17.5° | 563.7 | 545.6 | 467.0 | 324.9 | 190.4 | 126.9 | 122.4 | 122.4 | 126.9 | 131.5 | 133.0 |
| 20° | 574.3 | 554.6 | 441.3 | 272.0 | 136.0 | 119.4 | 117.9 | 116.4 | 119.4 | 123.9 | 125.4 |
| 22.5° | 590.9 | 563.7 | 411.1 | 210.1 | 117.9 | 114.9 | 111.8 | 110.3 | 111.8 | 116.4 | 117.9 |
| 25° | 606.0 | 575.8 | 379.3 | 155.7 | 110.3 | 107.3 | 105.8 | 104.3 | 104.3 | 107.3 | 108.8 |
| 27.5° | 624.2 | 589.4 | 344.6 | 116.4 | 101.3 | 99.7 | 98.2 | 96.7 | 95.2 | 98.2 | 99.7 |
| 30° | 646.8 | 601.5 | 306.8 | 98.2 | 92.2 | 90.7 | 89.2 | 87.7 | 86.1 | 87.7 | 89.2 |
| 32.5° | 675.5 | 618.1 | 263.0 | 89.2 | 84.6 | 80.1 | 78.6 | 78.6 | 77.1 | 77.1 | 78.6 |
| 35° | 713.3 | 636.2 | 216.1 | 83.1 | 77.1 | 72.5 | 68.0 | 66.5 | 66.5 | 66.5 | 68.0 |
| 37.5° | 769.2 | 669.5 | 170.8 | 77.1 | 71.0 | 63.5 | 58.9 | 54.4 | 54.4 | 54.4 | 54.4 |
| 40° | 846.3 | 705.8 | 133.0 | 72.5 | 66.5 | 55.9 | 49.9 | 43.8 | 40.8 | 39.3 | 40.8 |
| 42.5° | 965.7 | 760.2 | 102.8 | 66.5 | 63.5 | 49.9 | 40.8 | 33.2 | 27.2 | 25.7 | 27.2 |
| 45° | 1097.2 | 819.1 | 81.6 | 62.0 | 57.4 | 42.3 | 31.7 | 22.7 | 16.6 | 15.1 | 16.6 |
| 47.5° | 1263.4 | 893.2 | 69.5 | 55.9 | 49.9 | 34.8 | 22.7 | 12.1 | 7.6 | 9.1 | 9.1 |
| 50° | 1423.6 | 965.7 | 63.5 | 51.4 | 43.8 | 28.7 | 13.6 | 6.0 | 3.0 | 4.5 | 4.5 |
| 52.5° | 1600.4 | 1042.8 | 58.9 | 45.3 | 37.8 | 21.2 | 7.6 | 1.5 | 0.0 | 1.5 | 1.5 |
| 55° | 1778.8 | 1112.3 | 54.4 | 40.8 | 30.2 | 15.1 | 3.0 | 0.0 | 0.0 | 0.0 | 1.5 |
| 57.5° | 1972.2 | 1171.2 | 49.9 | 34.8 | 22.7 | 9.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2133.9 | 1216.6 | 45.3 | 30.2 | 15.1 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2282.0 | 1257.4 | 34.8 | 22.7 | 9.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2380.2 | 1266.4 | 24.2 | 15.1 | 6.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2336.4 | 1187.9 | 15.1 | 10.6 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2053.8 | 997.4 | 10.6 | 6.0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1437.2 | 643.8 | 9.1 | 4.5 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 758.7 | 232.7 | 6.0 | 3.0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 269.0 | 51.4 | 3.0 | 1.5 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 58.9 | 10.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 16.6 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.5 | 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)