

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: P595578

Luminaire Tested: **ISW-PA1B-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595578
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: ISW-PA1B-827-U-T2R
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3831 lumens
Efficiency: N/A
Efficacy: 105.2 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): 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

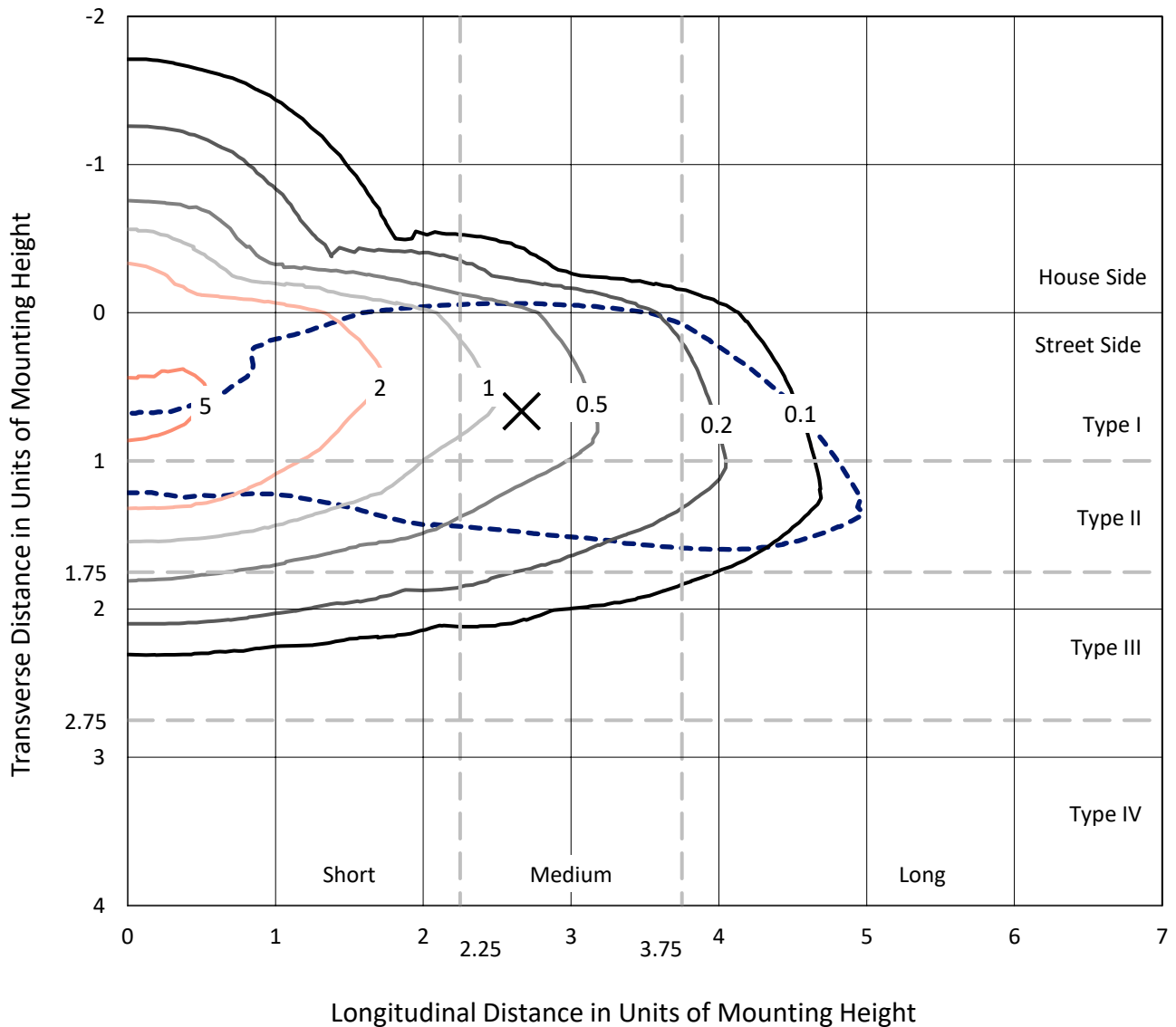




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Iso-Footcandle Lines of Horizontal Illumination

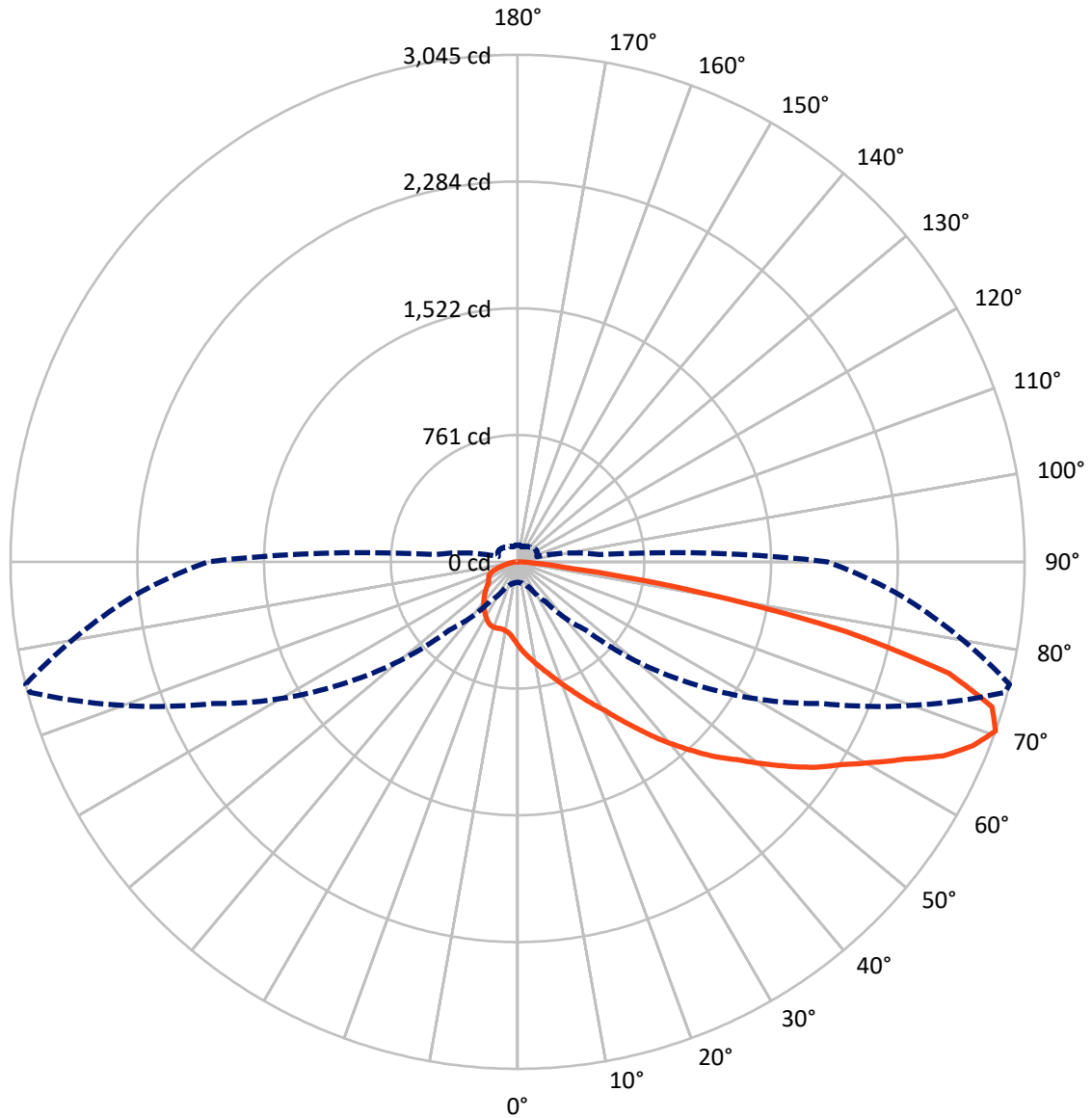
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 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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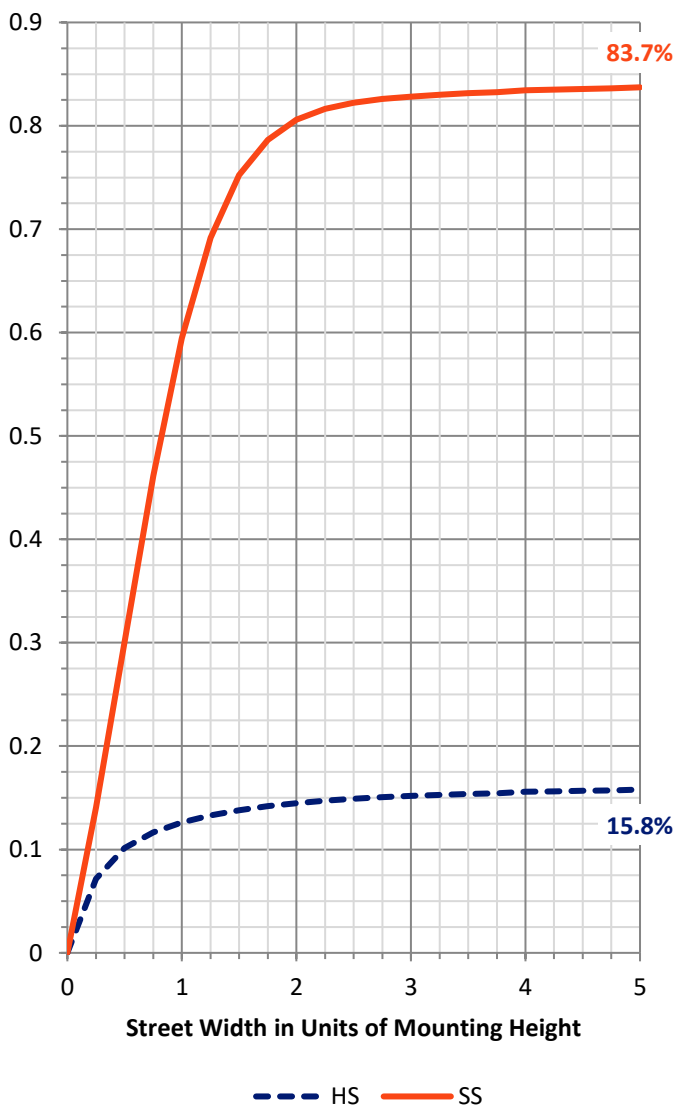
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 614.5 | 0.0 | 614.5 |
| | % Fixture | 16.0 | 0.0 | 16.0 |
| Street Side | Lumens | 3216.5 | 0.0 | 3216.5 |
| | % Fixture | 84.0 | 0.0 | 84.0 |
| Total | Lumens | 3831.0 | 0.0 | 3831.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.0 | 1.3 |
| 10°-20° | 161.6 | 4.2 |
| 20°-30° | 297.9 | 7.8 |
| 30°-40° | 499.1 | 13.0 |
| 40°-50° | 709.1 | 18.5 |
| 50°-60° | 818.8 | 21.4 |
| 60°-70° | 752.7 | 19.6 |
| 70°-80° | 474.6 | 12.4 |
| 80°-90° | 68.3 | 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° | 3831.0 | 100.0 |
| 0°-180° | 3831.0 | 100.0 |

Coefficient of Utilization

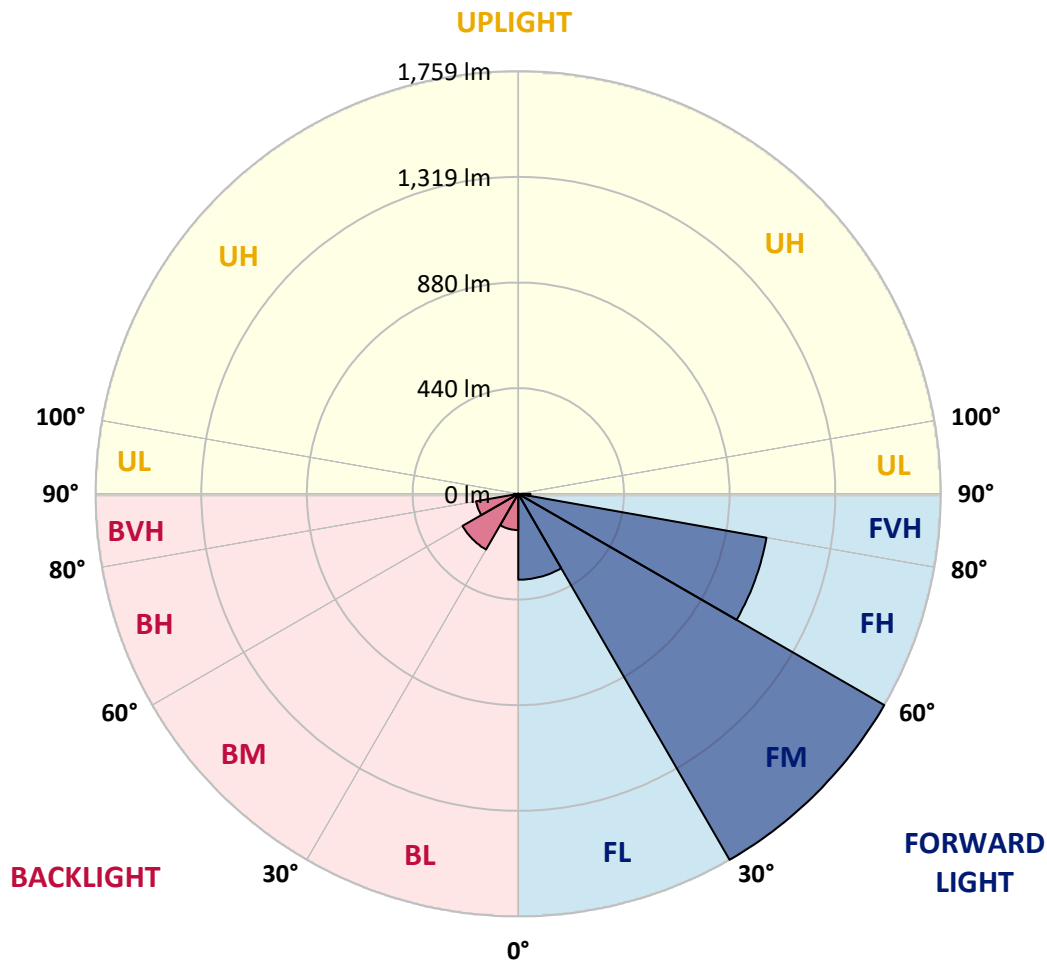


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 357.7 | 9.3 | | | |
| FM (30°-60°) | 1759.1 | 45.9 | | | |
| FH (60°-80°) | 1049.2 | 27.4 | | | G1/1800 |
| FVH (80°-90°) | 50.6 | 1.3 | | | G1/100 |
| BL (0°-30°) | 150.8 | 3.9 | B1/500 | | |
| BM (30°-60°) | 267.9 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 178.1 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.7 | 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° | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 |
| 2.5° | 604.9 | 604.0 | 601.2 | 596.6 | 592.9 | 581.9 | 567.1 | 554.2 | 534.8 | 533.0 | 513.6 |
| 5° | 659.3 | 655.6 | 655.6 | 651.0 | 646.4 | 634.4 | 616.0 | 592.9 | 565.3 | 563.4 | 526.5 |
| 7.5° | 685.2 | 686.1 | 684.2 | 680.5 | 681.5 | 671.3 | 654.7 | 631.7 | 593.9 | 592.0 | 544.1 |
| 10° | 722.0 | 721.1 | 717.4 | 714.7 | 713.7 | 704.5 | 689.8 | 668.6 | 628.9 | 625.2 | 564.4 |
| 12.5° | 758.0 | 755.2 | 756.2 | 755.2 | 753.4 | 744.2 | 730.3 | 709.1 | 660.3 | 658.4 | 589.3 |
| 15° | 778.3 | 777.4 | 783.8 | 785.7 | 793.0 | 784.7 | 772.8 | 748.8 | 704.5 | 697.1 | 618.8 |
| 17.5° | 791.2 | 790.3 | 796.7 | 811.5 | 825.3 | 825.3 | 821.6 | 795.8 | 746.9 | 741.4 | 652.0 |
| 20° | 813.3 | 817.0 | 828.1 | 840.1 | 860.4 | 864.1 | 863.1 | 852.1 | 795.8 | 790.3 | 688.8 |
| 22.5° | 857.6 | 855.8 | 865.0 | 883.4 | 901.9 | 907.4 | 908.3 | 908.3 | 852.1 | 841.9 | 726.7 |
| 25° | 952.6 | 948.0 | 940.6 | 938.7 | 960.9 | 960.0 | 957.2 | 963.6 | 911.1 | 903.7 | 770.0 |
| 27.5° | 1133.3 | 1123.2 | 1094.6 | 1037.4 | 1024.5 | 1029.1 | 1015.3 | 1016.2 | 978.4 | 969.2 | 806.9 |
| 30° | 1304.8 | 1300.2 | 1273.5 | 1204.3 | 1131.5 | 1105.7 | 1081.7 | 1071.5 | 1053.1 | 1037.4 | 846.5 |
| 32.5° | 1459.8 | 1460.7 | 1428.4 | 1352.8 | 1278.1 | 1196.9 | 1155.5 | 1134.2 | 1141.6 | 1127.8 | 900.9 |
| 35° | 1564.9 | 1556.6 | 1536.3 | 1485.6 | 1404.4 | 1327.0 | 1247.7 | 1200.6 | 1240.3 | 1224.6 | 955.3 |
| 37.5° | 1626.7 | 1620.2 | 1603.6 | 1567.6 | 1527.1 | 1452.4 | 1351.9 | 1279.9 | 1357.4 | 1334.3 | 1024.5 |
| 40° | 1658.0 | 1648.8 | 1632.2 | 1617.4 | 1598.1 | 1557.5 | 1469.0 | 1370.3 | 1464.4 | 1444.1 | 1092.7 |
| 42.5° | 1661.7 | 1655.3 | 1646.0 | 1638.7 | 1645.1 | 1639.6 | 1583.3 | 1475.4 | 1576.9 | 1554.7 | 1171.1 |
| 45° | 1658.9 | 1663.6 | 1652.5 | 1639.6 | 1652.5 | 1699.5 | 1699.5 | 1580.6 | 1688.5 | 1671.9 | 1245.8 |
| 47.5° | 1660.8 | 1656.2 | 1652.5 | 1648.8 | 1650.6 | 1715.2 | 1779.7 | 1679.2 | 1795.4 | 1776.1 | 1333.4 |
| 50° | 1584.2 | 1590.7 | 1622.1 | 1635.9 | 1644.2 | 1718.9 | 1844.3 | 1786.2 | 1928.2 | 1904.2 | 1431.2 |
| 52.5° | 1340.8 | 1344.5 | 1487.4 | 1590.7 | 1623.9 | 1704.1 | 1889.5 | 1905.2 | 2059.2 | 2040.7 | 1536.3 |
| 55° | 1032.8 | 1052.2 | 1187.7 | 1440.4 | 1577.8 | 1679.2 | 1903.3 | 1982.6 | 2192.9 | 2178.1 | 1642.3 |
| 57.5° | 850.2 | 853.0 | 931.4 | 1157.3 | 1432.1 | 1656.2 | 1917.1 | 2053.6 | 2312.7 | 2296.1 | 1753.0 |
| 60° | 705.4 | 699.0 | 746.9 | 892.6 | 1189.6 | 1564.0 | 1919.9 | 2109.9 | 2452.0 | 2446.5 | 1867.3 |
| 62.5° | 518.2 | 525.6 | 571.7 | 695.3 | 930.4 | 1376.8 | 1906.1 | 2157.8 | 2618.0 | 2610.6 | 1994.6 |
| 65° | 318.1 | 327.4 | 383.6 | 497.0 | 704.5 | 1092.7 | 1815.7 | 2182.7 | 2792.3 | 2808.9 | 2132.0 |
| 67.5° | 168.8 | 175.2 | 208.4 | 300.6 | 483.2 | 832.7 | 1598.1 | 2151.4 | 2939.8 | 2947.2 | 2263.9 |
| 70° | 123.6 | 124.5 | 135.6 | 169.7 | 291.4 | 579.1 | 1272.6 | 2014.9 | 3030.2 | 3044.9 | 2307.2 |
| 72.5° | 107.9 | 108.8 | 113.4 | 121.7 | 158.6 | 353.2 | 912.0 | 1777.0 | 2992.4 | 2979.5 | 2234.4 |
| 75° | 97.7 | 97.7 | 101.4 | 104.2 | 116.2 | 195.5 | 558.8 | 1454.2 | 2703.7 | 2675.1 | 1905.2 |
| 77.5° | 83.9 | 83.9 | 87.6 | 91.3 | 100.5 | 126.3 | 292.3 | 1078.0 | 2067.5 | 2018.6 | 1303.0 |
| 80° | 67.3 | 67.3 | 71.9 | 76.5 | 88.5 | 95.0 | 142.9 | 721.1 | 1182.2 | 1110.3 | 592.9 |
| 82.5° | 46.1 | 49.8 | 58.1 | 63.6 | 73.8 | 67.3 | 83.9 | 311.7 | 372.5 | 322.8 | 133.7 |
| 85° | 27.7 | 29.5 | 41.5 | 48.0 | 55.3 | 36.0 | 51.6 | 119.9 | 111.6 | 97.7 | 30.4 |
| 87.5° | 2.8 | 4.6 | 16.6 | 19.4 | 19.4 | 10.1 | 22.1 | 28.6 | 32.3 | 33.2 | 7.4 |
| 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° | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 | 502.6 |
| 2.5° | 502.6 | 491.5 | 470.3 | 450.9 | 431.6 | 418.7 | 405.7 | 401.1 | 394.7 | 390.1 | 393.8 |
| 5° | 507.2 | 484.1 | 443.6 | 409.4 | 386.4 | 368.9 | 360.6 | 355.9 | 352.3 | 351.3 | 350.4 |
| 7.5° | 512.7 | 478.6 | 424.2 | 386.4 | 364.2 | 355.9 | 354.1 | 354.1 | 354.1 | 355.0 | 355.9 |
| 10° | 524.7 | 480.4 | 414.0 | 373.5 | 361.5 | 359.6 | 360.6 | 364.2 | 364.2 | 365.2 | 365.2 |
| 12.5° | 538.5 | 485.0 | 406.7 | 371.6 | 364.2 | 365.2 | 366.1 | 367.9 | 367.9 | 370.7 | 369.8 |
| 15° | 558.8 | 494.3 | 405.7 | 373.5 | 367.0 | 365.2 | 365.2 | 364.2 | 364.2 | 364.2 | 366.1 |
| 17.5° | 584.6 | 507.2 | 406.7 | 373.5 | 364.2 | 360.6 | 357.8 | 355.0 | 351.3 | 353.2 | 351.3 |
| 20° | 610.5 | 522.9 | 406.7 | 368.9 | 356.9 | 347.6 | 339.4 | 334.7 | 330.1 | 329.2 | 330.1 |
| 22.5° | 642.7 | 541.3 | 402.1 | 358.7 | 341.2 | 328.3 | 316.3 | 309.8 | 302.5 | 299.7 | 297.9 |
| 25° | 670.4 | 556.1 | 392.8 | 344.0 | 323.7 | 305.2 | 289.6 | 278.5 | 269.3 | 267.4 | 267.4 |
| 27.5° | 699.0 | 569.0 | 379.0 | 325.5 | 298.8 | 278.5 | 261.0 | 247.1 | 237.9 | 237.0 | 236.1 |
| 30° | 725.7 | 580.0 | 360.6 | 305.2 | 276.6 | 252.7 | 232.4 | 220.4 | 212.1 | 207.5 | 204.7 |
| 32.5° | 760.8 | 594.8 | 343.0 | 284.9 | 250.8 | 226.8 | 208.4 | 198.3 | 187.2 | 179.8 | 177.1 |
| 35° | 805.0 | 612.3 | 323.7 | 262.8 | 227.8 | 203.8 | 192.7 | 178.0 | 164.1 | 155.8 | 153.1 |
| 37.5° | 854.8 | 637.2 | 303.4 | 239.8 | 204.7 | 187.2 | 180.7 | 157.7 | 142.9 | 140.2 | 139.2 |
| 40° | 916.6 | 661.2 | 280.3 | 215.8 | 182.6 | 178.0 | 166.9 | 142.9 | 135.6 | 134.6 | 133.7 |
| 42.5° | 978.4 | 687.0 | 258.2 | 191.8 | 165.1 | 166.9 | 151.2 | 139.2 | 132.8 | 130.9 | 130.0 |
| 45° | 1050.3 | 712.8 | 236.1 | 170.6 | 151.2 | 151.2 | 142.9 | 135.6 | 130.0 | 128.2 | 128.2 |
| 47.5° | 1125.9 | 738.6 | 212.1 | 152.2 | 141.1 | 135.6 | 136.5 | 130.9 | 127.3 | 125.4 | 124.5 |
| 50° | 1220.9 | 763.5 | 190.0 | 139.2 | 134.6 | 127.3 | 130.0 | 126.3 | 124.5 | 122.6 | 121.7 |
| 52.5° | 1310.4 | 774.6 | 169.7 | 131.9 | 130.9 | 123.6 | 124.5 | 122.6 | 121.7 | 119.0 | 118.0 |
| 55° | 1398.0 | 771.8 | 154.0 | 128.2 | 126.3 | 122.6 | 120.8 | 119.9 | 119.0 | 116.2 | 115.3 |
| 57.5° | 1495.7 | 768.1 | 143.9 | 127.3 | 123.6 | 119.9 | 119.9 | 117.1 | 113.4 | 113.4 | 113.4 |
| 60° | 1597.2 | 756.2 | 139.2 | 127.3 | 122.6 | 119.9 | 118.0 | 115.3 | 111.6 | 112.5 | 111.6 |
| 62.5° | 1711.5 | 733.1 | 136.5 | 130.0 | 123.6 | 119.0 | 117.1 | 113.4 | 108.8 | 109.7 | 108.8 |
| 65° | 1812.0 | 686.1 | 134.6 | 132.8 | 125.4 | 119.9 | 115.3 | 110.7 | 105.1 | 106.0 | 105.1 |
| 67.5° | 1880.3 | 606.8 | 129.1 | 134.6 | 128.2 | 119.0 | 113.4 | 107.0 | 99.6 | 103.3 | 102.4 |
| 70° | 1860.9 | 493.3 | 119.0 | 130.9 | 130.9 | 119.9 | 110.7 | 102.4 | 94.1 | 101.4 | 98.7 |
| 72.5° | 1710.6 | 370.7 | 99.6 | 118.0 | 129.1 | 119.9 | 105.1 | 95.0 | 87.6 | 92.2 | 86.7 |
| 75° | 1404.4 | 251.7 | 79.3 | 94.1 | 120.8 | 120.8 | 100.5 | 87.6 | 78.4 | 75.6 | 73.8 |
| 77.5° | 876.0 | 156.8 | 61.8 | 69.2 | 101.4 | 119.9 | 95.9 | 78.4 | 65.5 | 63.6 | 61.8 |
| 80° | 346.7 | 83.9 | 48.9 | 49.8 | 74.7 | 109.7 | 89.4 | 66.4 | 52.6 | 50.7 | 47.0 |
| 82.5° | 79.3 | 42.4 | 34.1 | 33.2 | 46.1 | 89.4 | 81.1 | 52.6 | 40.6 | 40.6 | 34.1 |
| 85° | 24.0 | 22.1 | 22.1 | 21.2 | 23.1 | 46.1 | 62.7 | 36.0 | 27.7 | 19.4 | 16.6 |
| 87.5° | 6.5 | 9.2 | 8.3 | 7.4 | 7.4 | 6.5 | 20.3 | 9.2 | 5.5 | 2.8 | 1.8 |
| 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)