

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: P594489

Luminaire Tested: **ISS-PA1A-760-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594489
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: ISS-PA1A-760-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4296 lumens
Efficiency: N/A
Efficacy: 148.7 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): 28.9
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

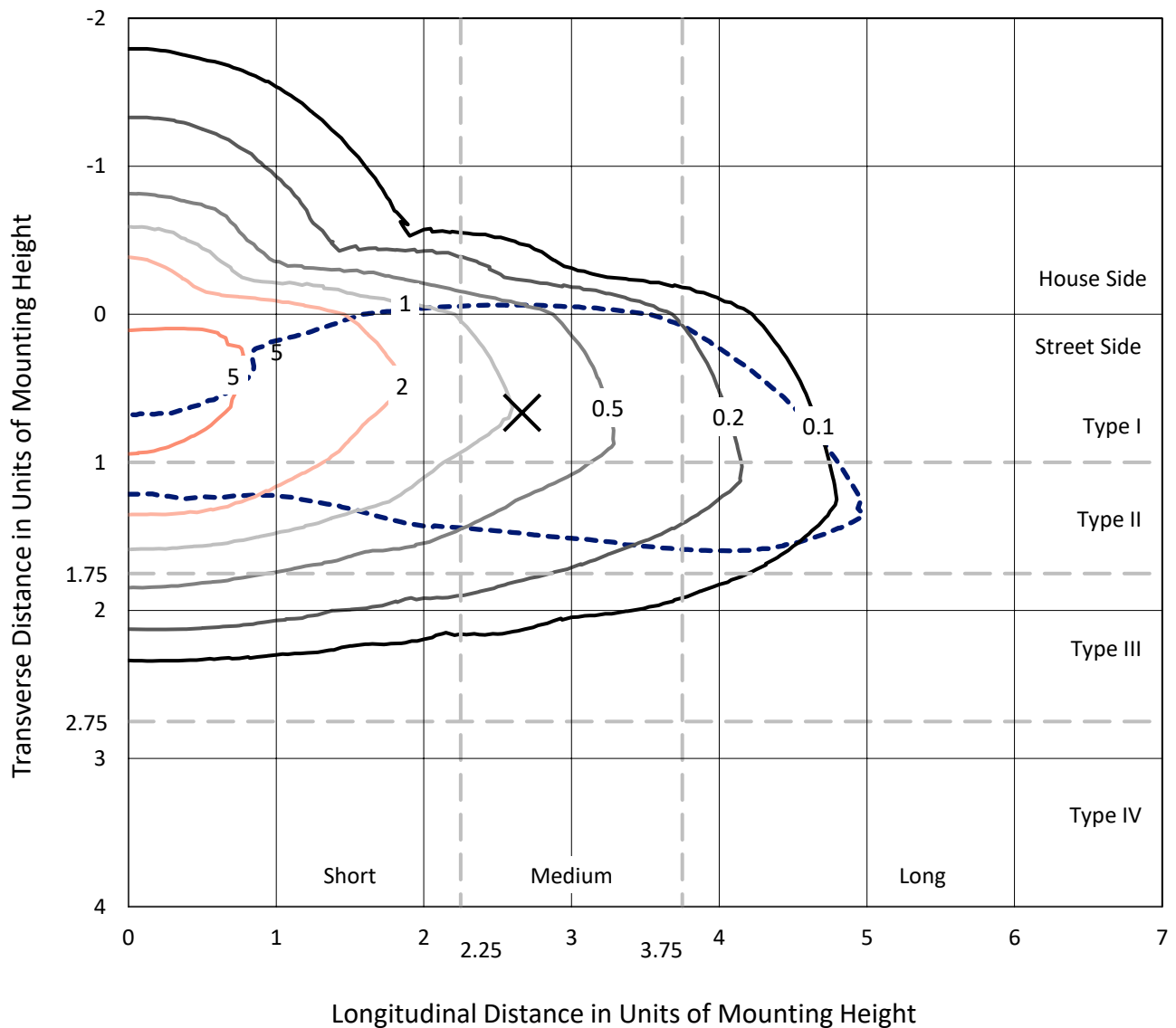




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Iso-Footcandle Lines of Horizontal Illumination

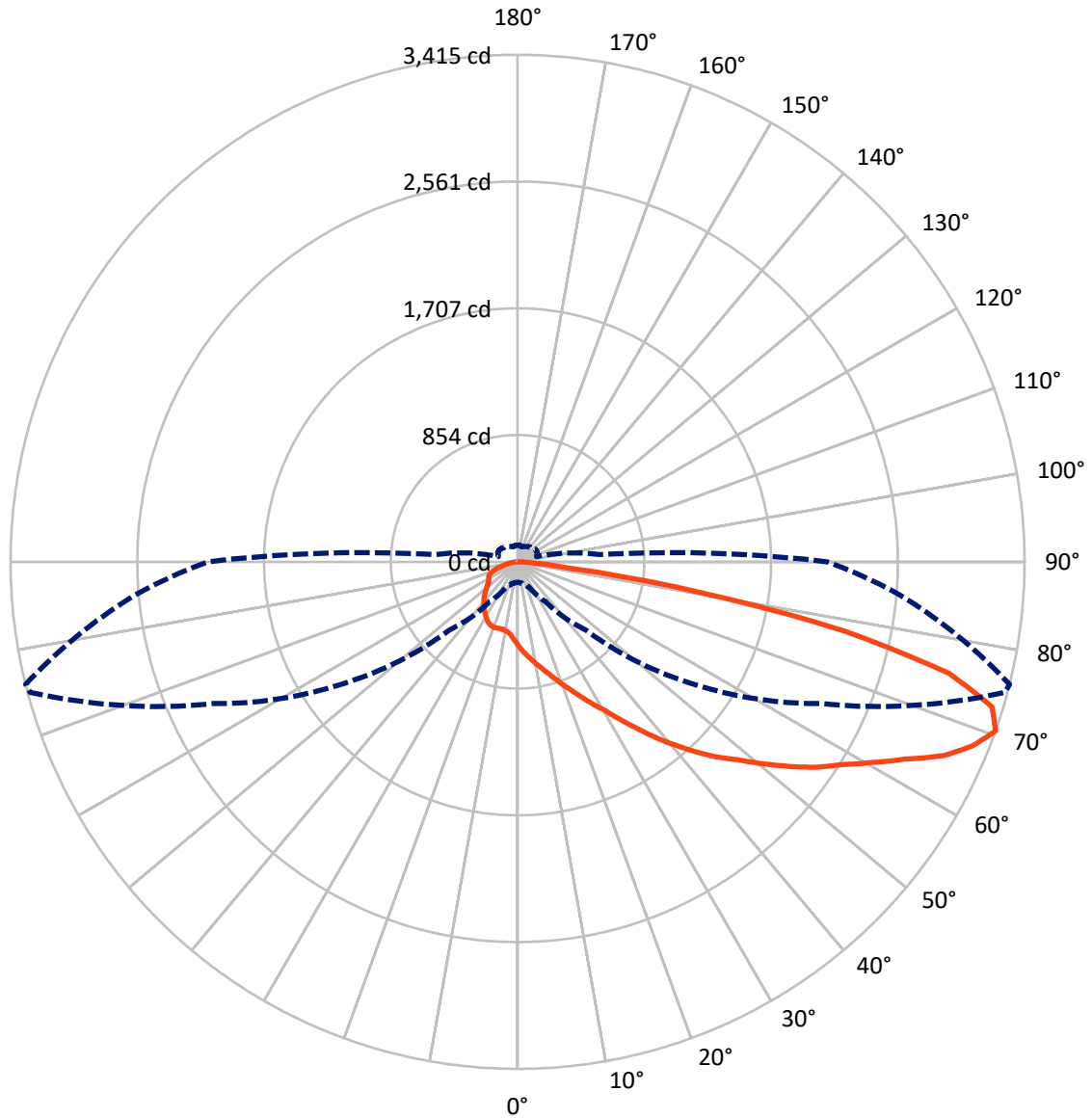
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 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 | 689.0 | 0.0 | 689.0 |
| | % Fixture | 16.0 | 0.0 | 16.0 |
| Street Side | Lumens | 3607.0 | 0.0 | 3607.0 |
| | % Fixture | 84.0 | 0.0 | 84.0 |
| Total | Lumens | 4296.0 | 0.0 | 4296.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.9 | 1.3 |
| 10°-20° | 181.3 | 4.2 |
| 20°-30° | 334.0 | 7.8 |
| 30°-40° | 559.7 | 13.0 |
| 40°-50° | 795.2 | 18.5 |
| 50°-60° | 918.1 | 21.4 |
| 60°-70° | 844.0 | 19.6 |
| 70°-80° | 532.2 | 12.4 |
| 80°-90° | 76.5 | 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° | 4296.0 | 100.0 |
| 0°-180° | 4296.0 | 100.0 |

Coefficient of Utilization



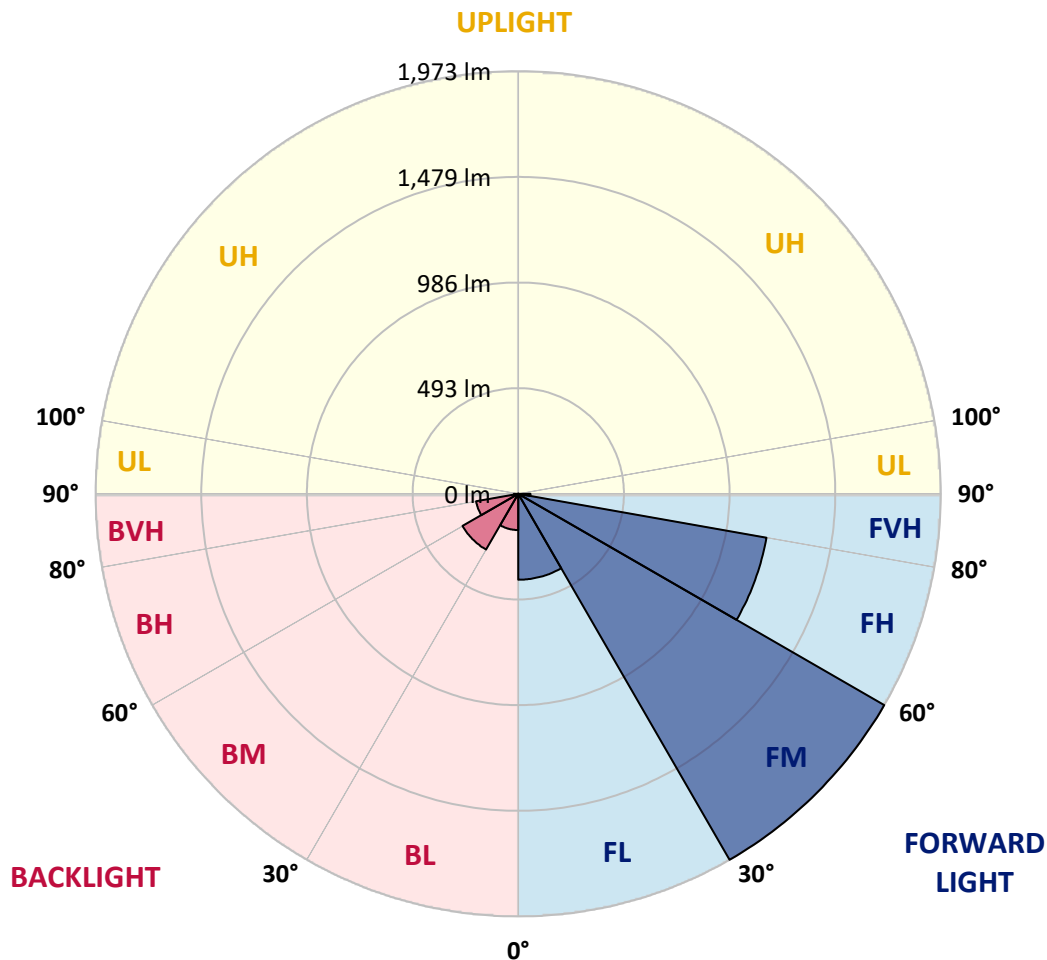
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 401.1 | 9.3 | | | |
| FM (30°-60°) | 1972.6 | 45.9 | | | |
| FH (60°-80°) | 1176.5 | 27.4 | | | G1/1800 |
| FVH (80°-90°) | 56.7 | 1.3 | | | G1/100 |
| BL (0°-30°) | 169.1 | 3.9 | B1/500 | | |
| BM (30°-60°) | 300.4 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 199.7 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.8 | 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° | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 |
| 2.5° | 678.4 | 677.3 | 674.2 | 669.0 | 664.9 | 652.5 | 636.0 | 621.5 | 599.8 | 597.7 | 576.0 |
| 5° | 739.4 | 735.2 | 735.2 | 730.1 | 724.9 | 711.4 | 690.8 | 664.9 | 633.9 | 631.8 | 590.5 |
| 7.5° | 768.3 | 769.4 | 767.3 | 763.1 | 764.2 | 752.8 | 734.2 | 708.3 | 665.9 | 663.9 | 610.1 |
| 10° | 809.7 | 808.6 | 804.5 | 801.4 | 800.4 | 790.0 | 773.5 | 749.7 | 705.2 | 701.1 | 632.9 |
| 12.5° | 850.0 | 846.9 | 847.9 | 846.9 | 844.8 | 834.5 | 819.0 | 795.2 | 740.4 | 738.3 | 660.8 |
| 15° | 872.8 | 871.7 | 879.0 | 881.0 | 889.3 | 880.0 | 866.6 | 839.7 | 790.0 | 781.8 | 693.9 |
| 17.5° | 887.2 | 886.2 | 893.4 | 910.0 | 925.5 | 925.5 | 921.4 | 892.4 | 837.6 | 831.4 | 731.1 |
| 20° | 912.1 | 916.2 | 928.6 | 942.0 | 964.8 | 968.9 | 967.9 | 955.5 | 892.4 | 886.2 | 772.5 |
| 22.5° | 961.7 | 959.6 | 970.0 | 990.6 | 1011.3 | 1017.5 | 1018.6 | 1018.6 | 955.5 | 944.1 | 814.9 |
| 25° | 1068.2 | 1063.0 | 1054.8 | 1052.7 | 1077.5 | 1076.5 | 1073.4 | 1080.6 | 1021.7 | 1013.4 | 863.5 |
| 27.5° | 1270.9 | 1259.5 | 1227.4 | 1163.3 | 1148.9 | 1154.0 | 1138.5 | 1139.6 | 1097.2 | 1086.8 | 904.8 |
| 30° | 1463.2 | 1458.0 | 1428.1 | 1350.5 | 1268.8 | 1239.9 | 1213.0 | 1201.6 | 1180.9 | 1163.3 | 949.3 |
| 32.5° | 1636.9 | 1638.0 | 1601.8 | 1517.0 | 1433.2 | 1342.2 | 1295.7 | 1271.9 | 1280.2 | 1264.7 | 1010.3 |
| 35° | 1754.8 | 1745.5 | 1722.8 | 1665.9 | 1574.9 | 1488.0 | 1399.1 | 1346.4 | 1390.8 | 1373.3 | 1071.3 |
| 37.5° | 1824.1 | 1816.9 | 1798.3 | 1757.9 | 1712.4 | 1628.7 | 1516.0 | 1435.3 | 1522.2 | 1496.3 | 1148.9 |
| 40° | 1859.3 | 1848.9 | 1830.3 | 1813.8 | 1792.1 | 1746.6 | 1647.3 | 1536.6 | 1642.1 | 1619.4 | 1225.4 |
| 42.5° | 1863.4 | 1856.2 | 1845.8 | 1837.6 | 1844.8 | 1838.6 | 1775.5 | 1654.5 | 1768.3 | 1743.5 | 1313.3 |
| 45° | 1860.3 | 1865.5 | 1853.1 | 1838.6 | 1853.1 | 1905.8 | 1905.8 | 1772.4 | 1893.4 | 1874.8 | 1397.0 |
| 47.5° | 1862.4 | 1857.2 | 1853.1 | 1848.9 | 1851.0 | 1923.4 | 1995.8 | 1883.1 | 2013.3 | 1991.6 | 1495.3 |
| 50° | 1776.5 | 1783.8 | 1818.9 | 1834.4 | 1843.8 | 1927.5 | 2068.2 | 2003.0 | 2162.3 | 2135.4 | 1604.9 |
| 52.5° | 1503.5 | 1507.7 | 1668.0 | 1783.8 | 1821.0 | 1911.0 | 2118.8 | 2136.4 | 2309.1 | 2288.4 | 1722.8 |
| 55° | 1158.2 | 1179.9 | 1331.9 | 1615.2 | 1769.3 | 1883.1 | 2134.3 | 2223.3 | 2459.0 | 2442.5 | 1841.7 |
| 57.5° | 953.4 | 956.5 | 1044.4 | 1297.8 | 1605.9 | 1857.2 | 2149.8 | 2302.9 | 2593.5 | 2574.8 | 1965.8 |
| 60° | 791.1 | 783.8 | 837.6 | 1001.0 | 1334.0 | 1753.8 | 2152.9 | 2366.0 | 2749.6 | 2743.4 | 2094.0 |
| 62.5° | 581.2 | 589.4 | 641.1 | 779.7 | 1043.4 | 1543.9 | 2137.4 | 2419.7 | 2935.7 | 2927.5 | 2236.7 |
| 65° | 356.8 | 367.1 | 430.2 | 557.4 | 790.0 | 1225.4 | 2036.1 | 2447.7 | 3131.2 | 3149.8 | 2390.8 |
| 67.5° | 189.2 | 196.5 | 233.7 | 337.1 | 541.9 | 933.8 | 1792.1 | 2412.5 | 3296.6 | 3304.9 | 2538.7 |
| 70° | 138.6 | 139.6 | 152.0 | 190.3 | 326.8 | 649.4 | 1427.0 | 2259.5 | 3398.0 | 3414.5 | 2587.3 |
| 72.5° | 121.0 | 122.0 | 127.2 | 136.5 | 177.9 | 396.1 | 1022.7 | 1992.7 | 3355.6 | 3341.1 | 2505.6 |
| 75° | 109.6 | 109.6 | 113.7 | 116.9 | 130.3 | 219.2 | 626.6 | 1630.7 | 3031.9 | 2999.9 | 2136.4 |
| 77.5° | 94.1 | 94.1 | 98.2 | 102.4 | 112.7 | 141.7 | 327.8 | 1208.8 | 2318.4 | 2263.6 | 1461.1 |
| 80° | 75.5 | 75.5 | 80.7 | 85.8 | 99.3 | 106.5 | 160.3 | 808.6 | 1325.7 | 1245.0 | 664.9 |
| 82.5° | 51.7 | 55.8 | 65.1 | 71.4 | 82.7 | 75.5 | 94.1 | 349.5 | 417.8 | 361.9 | 149.9 |
| 85° | 31.0 | 33.1 | 46.5 | 53.8 | 62.0 | 40.3 | 57.9 | 134.4 | 125.1 | 109.6 | 34.1 |
| 87.5° | 3.1 | 5.2 | 18.6 | 21.7 | 21.7 | 11.4 | 24.8 | 32.1 | 36.2 | 37.2 | 8.3 |
| 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° | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 |
| 2.5° | 563.6 | 551.2 | 527.4 | 505.7 | 483.9 | 469.5 | 455.0 | 449.8 | 442.6 | 437.4 | 441.6 |
| 5° | 568.7 | 542.9 | 497.4 | 459.1 | 433.3 | 413.6 | 404.3 | 399.2 | 395.0 | 394.0 | 392.9 |
| 7.5° | 574.9 | 536.7 | 475.7 | 433.3 | 408.5 | 399.2 | 397.1 | 397.1 | 397.1 | 398.1 | 399.2 |
| 10° | 588.4 | 538.8 | 464.3 | 418.8 | 405.4 | 403.3 | 404.3 | 408.5 | 408.5 | 409.5 | 409.5 |
| 12.5° | 603.9 | 543.9 | 456.0 | 416.7 | 408.5 | 409.5 | 410.5 | 412.6 | 412.6 | 415.7 | 414.7 |
| 15° | 626.6 | 554.3 | 455.0 | 418.8 | 411.6 | 409.5 | 409.5 | 408.5 | 408.5 | 408.5 | 410.5 |
| 17.5° | 655.6 | 568.7 | 456.0 | 418.8 | 408.5 | 404.3 | 401.2 | 398.1 | 394.0 | 396.1 | 394.0 |
| 20° | 684.6 | 586.3 | 456.0 | 413.6 | 400.2 | 389.8 | 380.5 | 375.4 | 370.2 | 369.2 | 370.2 |
| 22.5° | 720.8 | 607.0 | 450.9 | 402.3 | 382.6 | 368.1 | 354.7 | 347.4 | 339.2 | 336.1 | 334.0 |
| 25° | 751.8 | 623.5 | 440.5 | 385.7 | 363.0 | 342.3 | 324.7 | 312.3 | 302.0 | 299.9 | 299.9 |
| 27.5° | 783.8 | 638.0 | 425.0 | 365.0 | 335.0 | 312.3 | 292.6 | 277.1 | 266.8 | 265.8 | 264.7 |
| 30° | 813.8 | 650.4 | 404.3 | 342.3 | 310.2 | 283.3 | 260.6 | 247.1 | 237.8 | 232.7 | 229.6 |
| 32.5° | 853.1 | 667.0 | 384.7 | 319.5 | 281.3 | 254.4 | 233.7 | 222.3 | 209.9 | 201.6 | 198.5 |
| 35° | 902.7 | 686.6 | 363.0 | 294.7 | 255.4 | 228.5 | 216.1 | 199.6 | 184.1 | 174.8 | 171.7 |
| 37.5° | 958.6 | 714.5 | 340.2 | 268.9 | 229.6 | 209.9 | 202.7 | 176.8 | 160.3 | 157.2 | 156.1 |
| 40° | 1027.9 | 741.4 | 314.4 | 242.0 | 204.7 | 199.6 | 187.2 | 160.3 | 152.0 | 151.0 | 149.9 |
| 42.5° | 1097.2 | 770.4 | 289.5 | 215.1 | 185.1 | 187.2 | 169.6 | 156.1 | 148.9 | 146.8 | 145.8 |
| 45° | 1177.8 | 799.3 | 264.7 | 191.3 | 169.6 | 169.6 | 160.3 | 152.0 | 145.8 | 143.7 | 143.7 |
| 47.5° | 1262.6 | 828.3 | 237.8 | 170.6 | 158.2 | 152.0 | 153.0 | 146.8 | 142.7 | 140.6 | 139.6 |
| 50° | 1369.1 | 856.2 | 213.0 | 156.1 | 151.0 | 142.7 | 145.8 | 141.7 | 139.6 | 137.5 | 136.5 |
| 52.5° | 1469.4 | 868.6 | 190.3 | 147.9 | 146.8 | 138.6 | 139.6 | 137.5 | 136.5 | 133.4 | 132.4 |
| 55° | 1567.7 | 865.5 | 172.7 | 143.7 | 141.7 | 137.5 | 135.5 | 134.4 | 133.4 | 130.3 | 129.3 |
| 57.5° | 1677.3 | 861.4 | 161.3 | 142.7 | 138.6 | 134.4 | 134.4 | 131.3 | 127.2 | 127.2 | 127.2 |
| 60° | 1791.0 | 847.9 | 156.1 | 142.7 | 137.5 | 134.4 | 132.4 | 129.3 | 125.1 | 126.2 | 125.1 |
| 62.5° | 1919.2 | 822.1 | 153.0 | 145.8 | 138.6 | 133.4 | 131.3 | 127.2 | 122.0 | 123.1 | 122.0 |
| 65° | 2032.0 | 769.4 | 151.0 | 148.9 | 140.6 | 134.4 | 129.3 | 124.1 | 117.9 | 118.9 | 117.9 |
| 67.5° | 2108.5 | 680.4 | 144.8 | 151.0 | 143.7 | 133.4 | 127.2 | 120.0 | 111.7 | 115.8 | 114.8 |
| 70° | 2086.8 | 553.2 | 133.4 | 146.8 | 146.8 | 134.4 | 124.1 | 114.8 | 105.5 | 113.7 | 110.6 |
| 72.5° | 1918.2 | 415.7 | 111.7 | 132.4 | 144.8 | 134.4 | 117.9 | 106.5 | 98.2 | 103.4 | 97.2 |
| 75° | 1574.9 | 282.3 | 88.9 | 105.5 | 135.5 | 135.5 | 112.7 | 98.2 | 87.9 | 84.8 | 82.7 |
| 77.5° | 982.4 | 175.8 | 69.3 | 77.6 | 113.7 | 134.4 | 107.5 | 87.9 | 73.4 | 71.4 | 69.3 |
| 80° | 388.8 | 94.1 | 54.8 | 55.8 | 83.8 | 123.1 | 100.3 | 74.5 | 58.9 | 56.9 | 52.7 |
| 82.5° | 88.9 | 47.6 | 38.3 | 37.2 | 51.7 | 100.3 | 91.0 | 58.9 | 45.5 | 45.5 | 38.3 |
| 85° | 26.9 | 24.8 | 24.8 | 23.8 | 25.9 | 51.7 | 70.3 | 40.3 | 31.0 | 21.7 | 18.6 |
| 87.5° | 7.2 | 10.3 | 9.3 | 8.3 | 8.3 | 7.2 | 22.7 | 10.3 | 6.2 | 3.1 | 2.1 |
| 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)