

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: P594054

Luminaire Tested: **ISC-PA1B-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1B-730-U-T4W
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4741 lumens
Efficiency: N/A
Efficacy: 130.2 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

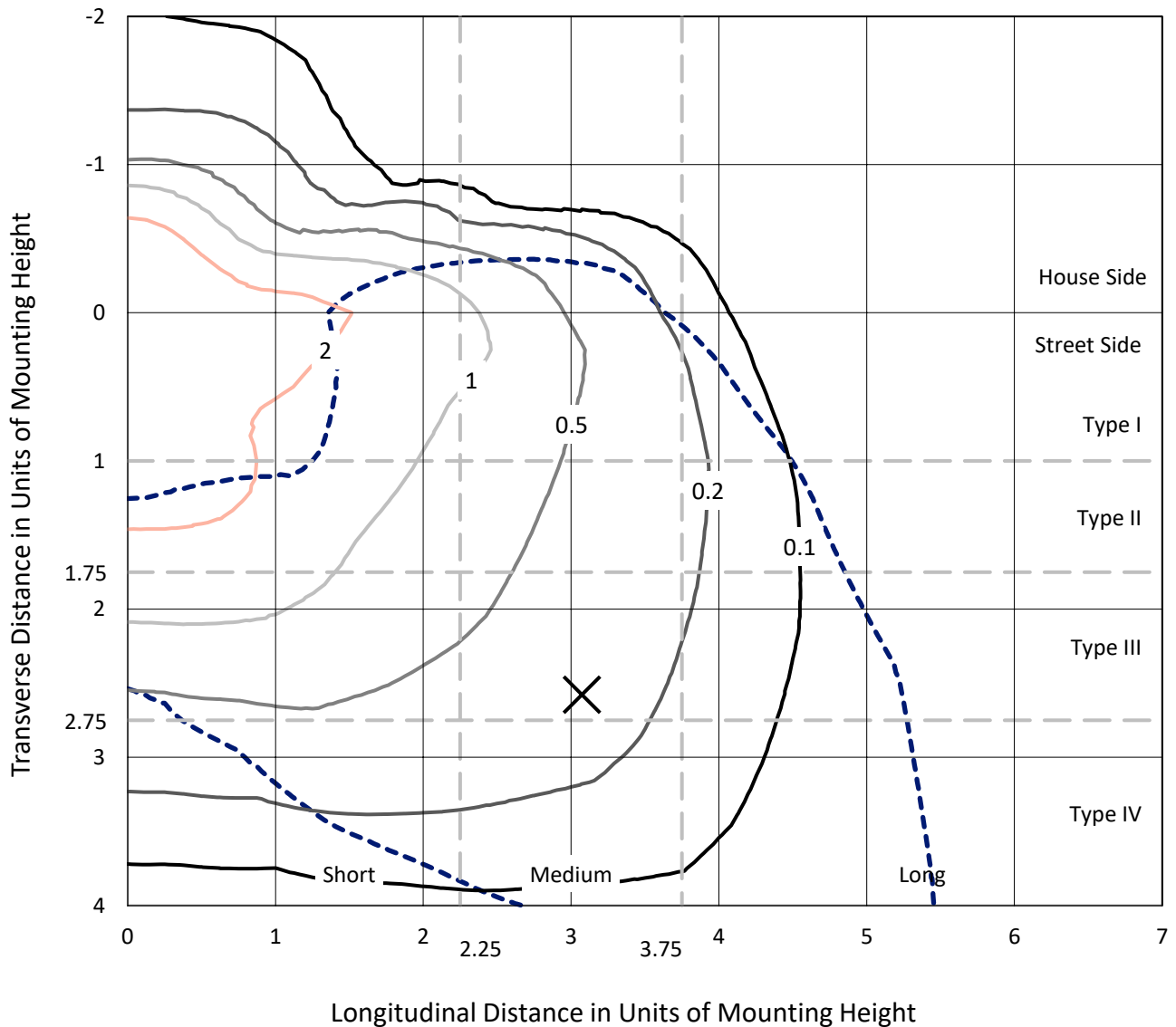
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

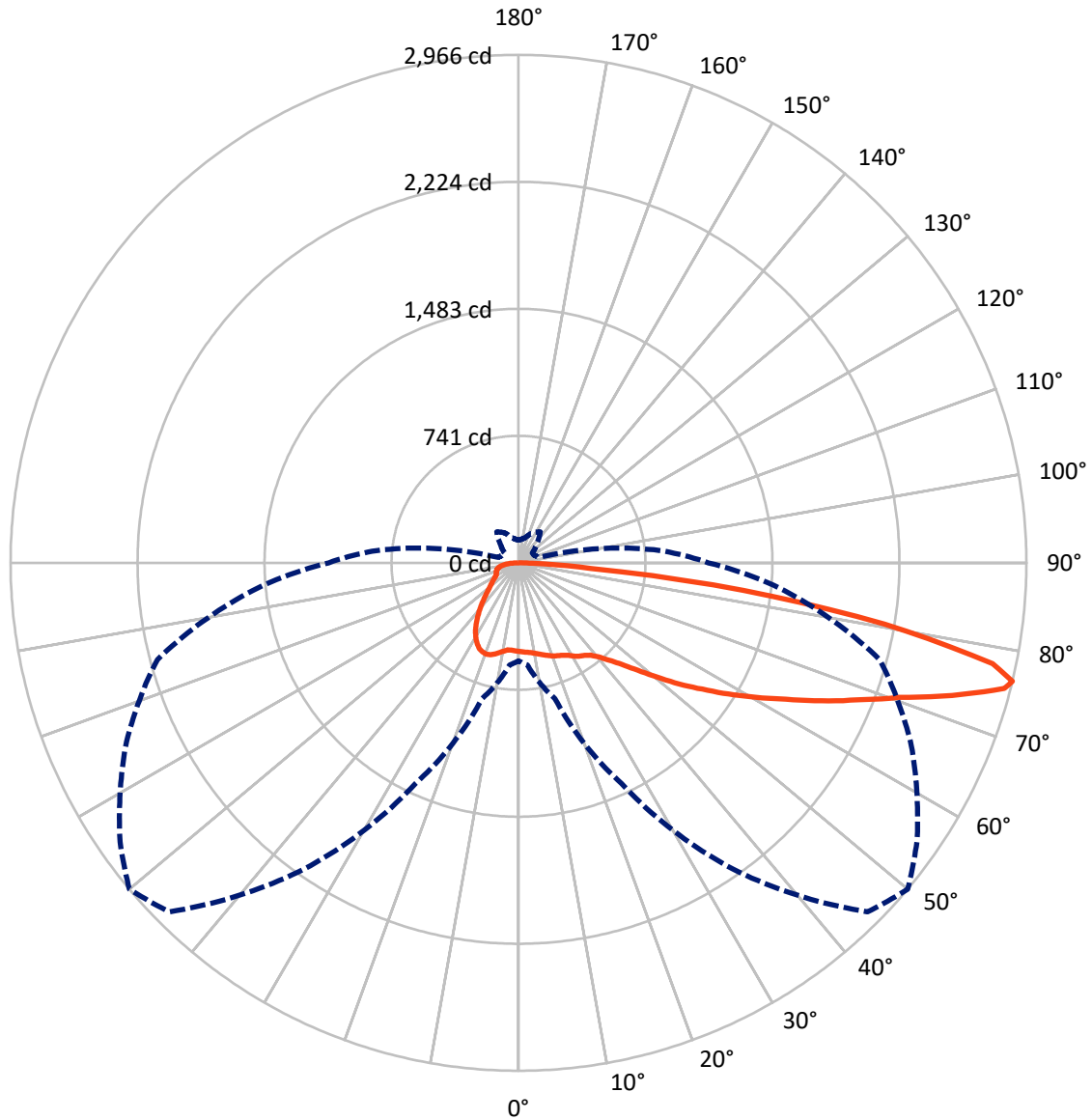
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1084.6 | 0.0 | 1084.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 3656.4 | 0.0 | 3656.4 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 4741.0 | 0.0 | 4741.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.2 | 1.1 |
| 10°-20° | 157.8 | 3.3 |
| 20°-30° | 266.5 | 5.6 |
| 30°-40° | 365.3 | 7.7 |
| 40°-50° | 538.0 | 11.3 |
| 50°-60° | 846.3 | 17.9 |
| 60°-70° | 1218.2 | 25.7 |
| 70°-80° | 1107.6 | 23.4 |
| 80°-90° | 191.2 | 4.0 |
| 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° | 4741.0 | 100.0 |
| 0°-180° | 4741.0 | 100.0 |

Coefficient of Utilization

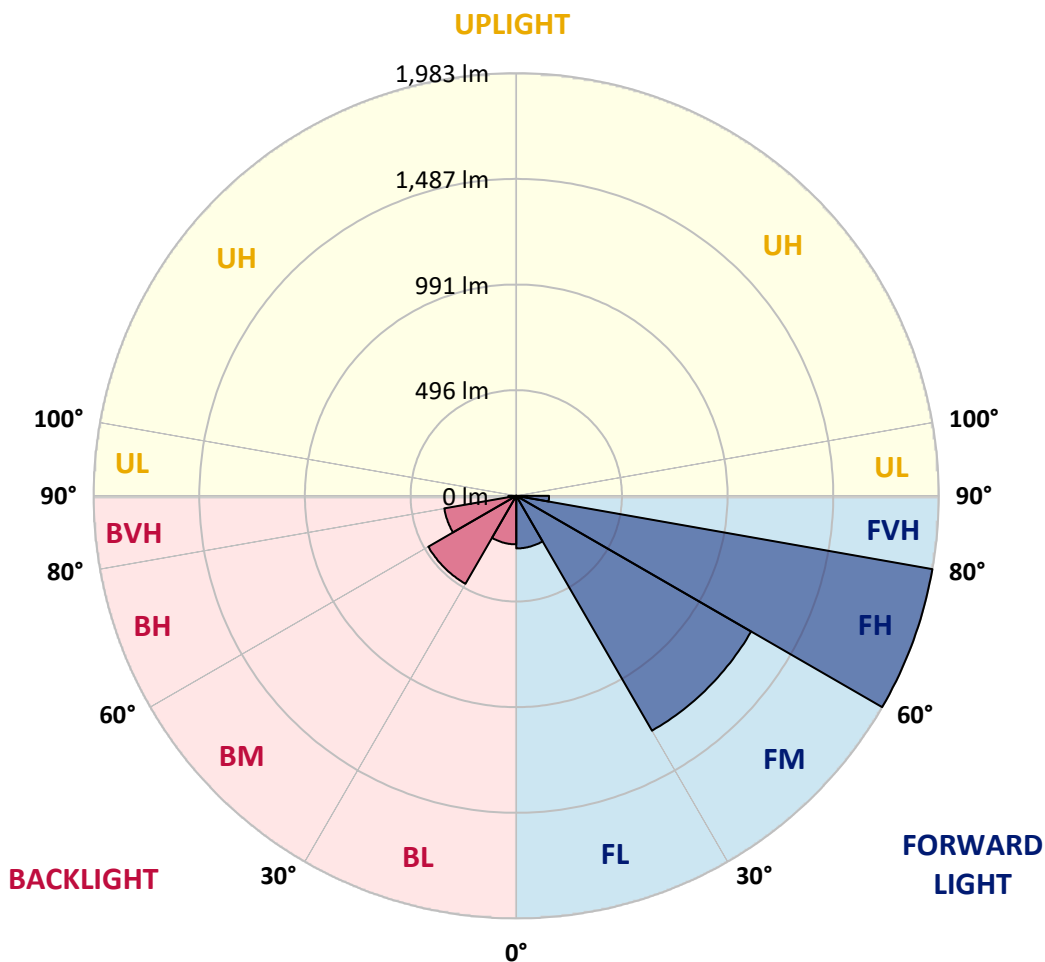


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 246.8 | 5.2 | | | |
| FM (30°-60°) | 1272.9 | 26.8 | | | |
| FH (60°-80°) | 1982.9 | 41.8 | | | G2/5000 |
| FVH (80°-90°) | 153.9 | 3.2 | | | G2/225 |
| BL (0°-30°) | 227.7 | 4.8 | B1/500 | | |
| BM (30°-60°) | 476.7 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 342.9 | 7.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 37.3 | 0.8 | | | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 |
| 2.5° | 528.4 | 528.4 | 529.5 | 527.2 | 527.2 | 521.4 | 521.4 | 520.2 | 517.9 | 516.8 | 514.4 |
| 5° | 548.1 | 548.1 | 544.6 | 538.8 | 535.3 | 528.4 | 524.9 | 522.6 | 517.9 | 512.1 | 506.3 |
| 7.5° | 569.0 | 566.7 | 564.4 | 555.1 | 548.1 | 535.3 | 529.5 | 526.0 | 516.8 | 508.6 | 505.1 |
| 10° | 591.1 | 587.6 | 581.8 | 570.2 | 559.7 | 544.6 | 537.7 | 533.0 | 522.6 | 515.6 | 507.5 |
| 12.5° | 603.9 | 603.9 | 596.9 | 582.9 | 569.0 | 550.4 | 547.0 | 541.1 | 530.7 | 521.4 | 513.3 |
| 15° | 616.6 | 617.8 | 610.8 | 594.6 | 578.3 | 564.4 | 558.6 | 555.1 | 543.5 | 529.5 | 519.1 |
| 17.5° | 629.4 | 628.2 | 621.3 | 602.7 | 585.3 | 572.5 | 569.0 | 564.4 | 552.8 | 540.0 | 529.5 |
| 20° | 638.7 | 636.4 | 634.0 | 610.8 | 593.4 | 585.3 | 580.6 | 577.1 | 565.5 | 551.6 | 537.7 |
| 22.5° | 641.0 | 643.3 | 641.0 | 613.1 | 599.2 | 589.9 | 588.8 | 585.3 | 576.0 | 563.2 | 549.3 |
| 25° | 642.2 | 643.3 | 646.8 | 620.1 | 607.3 | 600.4 | 598.0 | 595.7 | 588.8 | 578.3 | 559.7 |
| 27.5° | 648.0 | 649.1 | 649.1 | 624.8 | 617.8 | 613.1 | 610.8 | 610.8 | 607.3 | 594.6 | 576.0 |
| 30° | 649.1 | 650.3 | 652.6 | 636.4 | 634.0 | 630.6 | 631.7 | 630.6 | 624.8 | 610.8 | 589.9 |
| 32.5° | 657.3 | 658.4 | 664.2 | 643.3 | 645.7 | 649.1 | 650.3 | 649.1 | 637.5 | 625.9 | 608.5 |
| 35° | 684.0 | 682.8 | 687.5 | 660.8 | 658.4 | 659.6 | 663.1 | 661.9 | 657.3 | 646.8 | 635.2 |
| 37.5° | 769.9 | 769.9 | 757.1 | 701.4 | 684.0 | 681.7 | 684.0 | 689.8 | 690.9 | 681.7 | 672.4 |
| 40° | 920.9 | 912.7 | 905.8 | 785.0 | 729.3 | 715.3 | 722.3 | 725.8 | 735.1 | 735.1 | 735.1 |
| 42.5° | 1076.5 | 1077.6 | 1075.3 | 915.1 | 810.6 | 775.7 | 776.9 | 785.0 | 804.7 | 808.2 | 818.7 |
| 45° | 1214.7 | 1222.8 | 1240.2 | 1066.0 | 930.2 | 852.4 | 844.2 | 852.4 | 880.2 | 903.5 | 930.2 |
| 47.5° | 1322.7 | 1313.4 | 1351.7 | 1224.0 | 1067.2 | 956.9 | 936.0 | 938.3 | 976.6 | 1013.8 | 1055.6 |
| 50° | 1415.6 | 1417.9 | 1435.3 | 1385.4 | 1240.2 | 1075.3 | 1047.5 | 1042.8 | 1097.4 | 1136.9 | 1207.7 |
| 52.5° | 1520.1 | 1513.1 | 1538.7 | 1527.0 | 1408.6 | 1220.5 | 1176.4 | 1162.4 | 1221.6 | 1277.4 | 1354.0 |
| 55° | 1570.0 | 1577.0 | 1629.2 | 1658.3 | 1567.7 | 1350.5 | 1301.8 | 1306.4 | 1369.1 | 1428.3 | 1535.2 |
| 57.5° | 1658.3 | 1665.2 | 1725.6 | 1786.0 | 1709.4 | 1488.7 | 1445.8 | 1445.8 | 1516.6 | 1582.8 | 1747.7 |
| 60° | 1779.0 | 1780.2 | 1841.7 | 1946.3 | 1833.6 | 1622.3 | 1594.4 | 1593.2 | 1669.9 | 1746.5 | 1998.5 |
| 62.5° | 1832.5 | 1846.4 | 1938.1 | 2074.0 | 1996.2 | 1786.0 | 1753.5 | 1762.8 | 1831.3 | 1920.7 | 2278.4 |
| 65° | 1760.5 | 1790.7 | 1982.3 | 2159.9 | 2141.4 | 1956.7 | 1943.9 | 1956.7 | 1998.5 | 2094.9 | 2574.5 |
| 67.5° | 1522.4 | 1563.0 | 1901.0 | 2218.0 | 2257.5 | 2154.1 | 2135.5 | 2133.2 | 2159.9 | 2267.9 | 2761.5 |
| 70° | 1399.3 | 1423.7 | 1686.1 | 2240.1 | 2350.4 | 2353.9 | 2353.9 | 2338.8 | 2335.3 | 2414.2 | 2778.9 |
| 72.5° | 1152.0 | 1177.5 | 1422.5 | 2117.0 | 2438.6 | 2621.0 | 2647.7 | 2591.9 | 2506.0 | 2489.7 | 2487.4 |
| 75° | 821.0 | 839.6 | 1050.9 | 1665.2 | 2326.0 | 2877.6 | 2931.0 | 2823.0 | 2583.8 | 2324.8 | 1813.9 |
| 76° | 572.5 | 599.2 | 821.0 | 1422.5 | 2184.3 | 2882.2 | 2965.8 | 2840.4 | 2531.5 | 2183.2 | 1494.5 |
| 77.5° | 290.3 | 299.6 | 475.0 | 955.7 | 1827.8 | 2749.9 | 2831.1 | 2690.6 | 2303.9 | 1763.9 | 948.7 |
| 80° | 110.3 | 113.8 | 169.5 | 348.4 | 1003.3 | 2135.5 | 2166.9 | 1977.6 | 1524.7 | 753.7 | 341.4 |
| 82.5° | 58.1 | 60.4 | 95.2 | 171.9 | 412.2 | 1174.0 | 1325.0 | 1103.2 | 598.0 | 226.4 | 99.9 |
| 85° | 29.0 | 31.4 | 55.7 | 104.5 | 204.4 | 367.0 | 425.0 | 401.8 | 198.6 | 85.9 | 37.2 |
| 87.5° | 11.6 | 13.9 | 27.9 | 46.5 | 82.4 | 72.0 | 80.1 | 103.4 | 63.9 | 40.6 | 12.8 |
| 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° | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 | 516.8 |
| 2.5° | 514.4 | 513.3 | 514.4 | 513.3 | 514.4 | 514.4 | 515.6 | 513.3 | 513.3 | 515.6 | 512.1 |
| 5° | 506.3 | 505.1 | 506.3 | 508.6 | 509.8 | 512.1 | 516.8 | 515.6 | 517.9 | 520.2 | 521.4 |
| 7.5° | 502.8 | 501.7 | 505.1 | 506.3 | 509.8 | 514.4 | 521.4 | 526.0 | 528.4 | 533.0 | 530.7 |
| 10° | 506.3 | 506.3 | 511.0 | 514.4 | 520.2 | 526.0 | 531.9 | 536.5 | 542.3 | 545.8 | 544.6 |
| 12.5° | 512.1 | 511.0 | 519.1 | 523.7 | 531.9 | 537.7 | 542.3 | 544.6 | 549.3 | 553.9 | 552.8 |
| 15° | 517.9 | 519.1 | 530.7 | 540.0 | 549.3 | 551.6 | 552.8 | 550.4 | 552.8 | 555.1 | 555.1 |
| 17.5° | 529.5 | 530.7 | 543.5 | 553.9 | 562.0 | 559.7 | 553.9 | 548.1 | 548.1 | 549.3 | 550.4 |
| 20° | 538.8 | 541.1 | 556.2 | 565.5 | 570.2 | 560.9 | 551.6 | 544.6 | 541.1 | 542.3 | 541.1 |
| 22.5° | 549.3 | 553.9 | 569.0 | 573.7 | 566.7 | 555.1 | 543.5 | 534.2 | 534.2 | 535.3 | 535.3 |
| 25° | 562.0 | 564.4 | 574.8 | 572.5 | 559.7 | 542.3 | 533.0 | 529.5 | 528.4 | 529.5 | 530.7 |
| 27.5° | 573.7 | 574.8 | 580.6 | 564.4 | 540.0 | 521.4 | 517.9 | 519.1 | 520.2 | 521.4 | 522.6 |
| 30° | 588.8 | 591.1 | 585.3 | 552.8 | 515.6 | 494.7 | 494.7 | 501.7 | 504.0 | 507.5 | 506.3 |
| 32.5° | 607.3 | 609.7 | 592.2 | 537.7 | 484.2 | 463.3 | 464.5 | 475.0 | 481.9 | 484.2 | 485.4 |
| 35° | 638.7 | 634.0 | 596.9 | 516.8 | 450.6 | 425.0 | 426.2 | 439.0 | 448.2 | 451.7 | 449.4 |
| 37.5° | 677.0 | 675.9 | 603.9 | 490.0 | 408.8 | 385.5 | 386.7 | 392.5 | 401.8 | 403.0 | 404.1 |
| 40° | 740.9 | 731.6 | 615.5 | 455.2 | 367.0 | 344.9 | 342.6 | 346.1 | 344.9 | 347.2 | 348.4 |
| 42.5° | 832.6 | 808.2 | 630.6 | 415.7 | 329.8 | 306.6 | 304.2 | 298.4 | 291.5 | 284.5 | 281.0 |
| 45° | 940.6 | 902.3 | 649.1 | 375.1 | 291.5 | 270.6 | 264.8 | 257.8 | 243.9 | 228.8 | 224.1 |
| 47.5° | 1080.0 | 1006.8 | 670.0 | 334.4 | 255.5 | 239.2 | 234.6 | 224.1 | 207.9 | 190.4 | 187.0 |
| 50° | 1222.8 | 1129.9 | 690.9 | 300.8 | 226.4 | 217.2 | 212.5 | 202.1 | 181.2 | 164.9 | 161.4 |
| 52.5° | 1388.9 | 1251.8 | 713.0 | 270.6 | 200.9 | 200.9 | 197.4 | 181.2 | 161.4 | 146.3 | 144.0 |
| 55° | 1580.5 | 1377.2 | 747.8 | 241.5 | 182.3 | 187.0 | 182.3 | 166.1 | 147.5 | 137.0 | 135.9 |
| 57.5° | 1809.2 | 1536.3 | 792.0 | 210.2 | 166.1 | 169.5 | 169.5 | 157.9 | 145.2 | 138.2 | 137.0 |
| 60° | 2039.2 | 1697.8 | 819.8 | 187.0 | 153.3 | 156.8 | 163.7 | 157.9 | 149.8 | 146.3 | 145.2 |
| 62.5° | 2259.8 | 1862.7 | 772.2 | 167.2 | 140.5 | 151.0 | 168.4 | 169.5 | 161.4 | 162.6 | 162.6 |
| 65° | 2424.7 | 1988.1 | 624.8 | 149.8 | 132.4 | 154.4 | 182.3 | 183.5 | 169.5 | 166.1 | 164.9 |
| 67.5° | 2481.6 | 2022.9 | 420.4 | 138.2 | 127.7 | 156.8 | 198.6 | 193.9 | 169.5 | 162.6 | 159.1 |
| 70° | 2373.6 | 1895.2 | 272.9 | 127.7 | 120.8 | 154.4 | 211.3 | 199.7 | 168.4 | 157.9 | 153.3 |
| 72.5° | 1990.4 | 1616.5 | 182.3 | 118.4 | 113.8 | 152.1 | 219.5 | 199.7 | 164.9 | 149.8 | 145.2 |
| 75° | 1381.9 | 1104.4 | 135.9 | 106.8 | 103.4 | 148.6 | 221.8 | 196.3 | 156.8 | 140.5 | 137.0 |
| 76° | 1109.0 | 828.0 | 123.1 | 102.2 | 98.7 | 146.3 | 220.6 | 192.8 | 151.0 | 135.9 | 132.4 |
| 77.5° | 700.2 | 476.1 | 103.4 | 94.1 | 91.7 | 141.7 | 216.0 | 184.6 | 142.8 | 127.7 | 124.3 |
| 80° | 245.0 | 174.2 | 79.0 | 76.6 | 77.8 | 131.2 | 203.2 | 168.4 | 126.6 | 112.6 | 108.0 |
| 82.5° | 97.5 | 80.1 | 59.2 | 59.2 | 61.5 | 112.6 | 183.5 | 148.6 | 110.3 | 92.9 | 85.9 |
| 85° | 38.3 | 34.8 | 41.8 | 41.8 | 44.1 | 91.7 | 153.3 | 116.1 | 75.5 | 58.1 | 55.7 |
| 87.5° | 11.6 | 16.3 | 18.6 | 19.7 | 20.9 | 46.5 | 87.1 | 51.1 | 33.7 | 24.4 | 19.7 |
| 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)