

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: P522627

Luminaire Tested: **GALN-SA1B-750-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5762 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

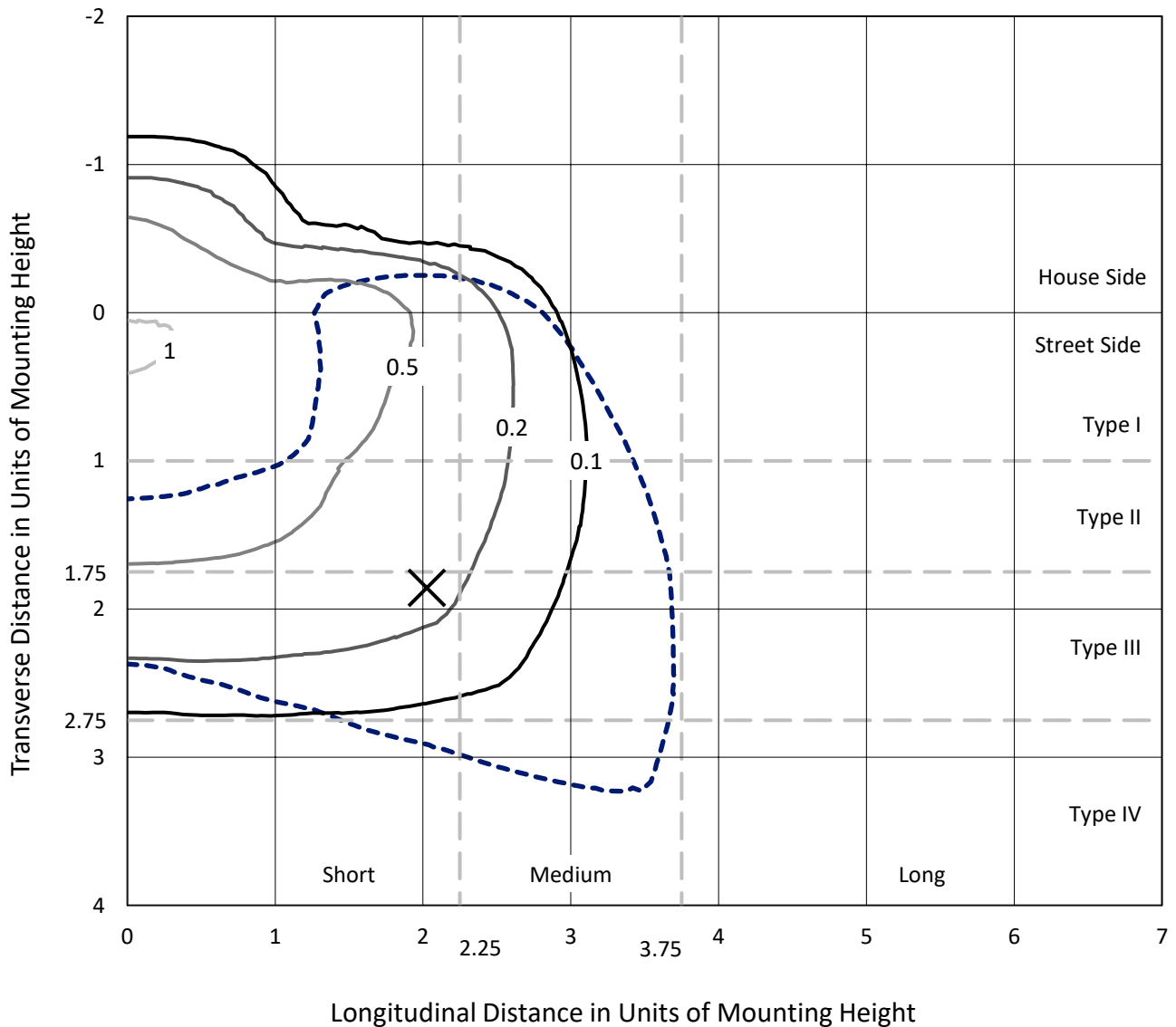
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

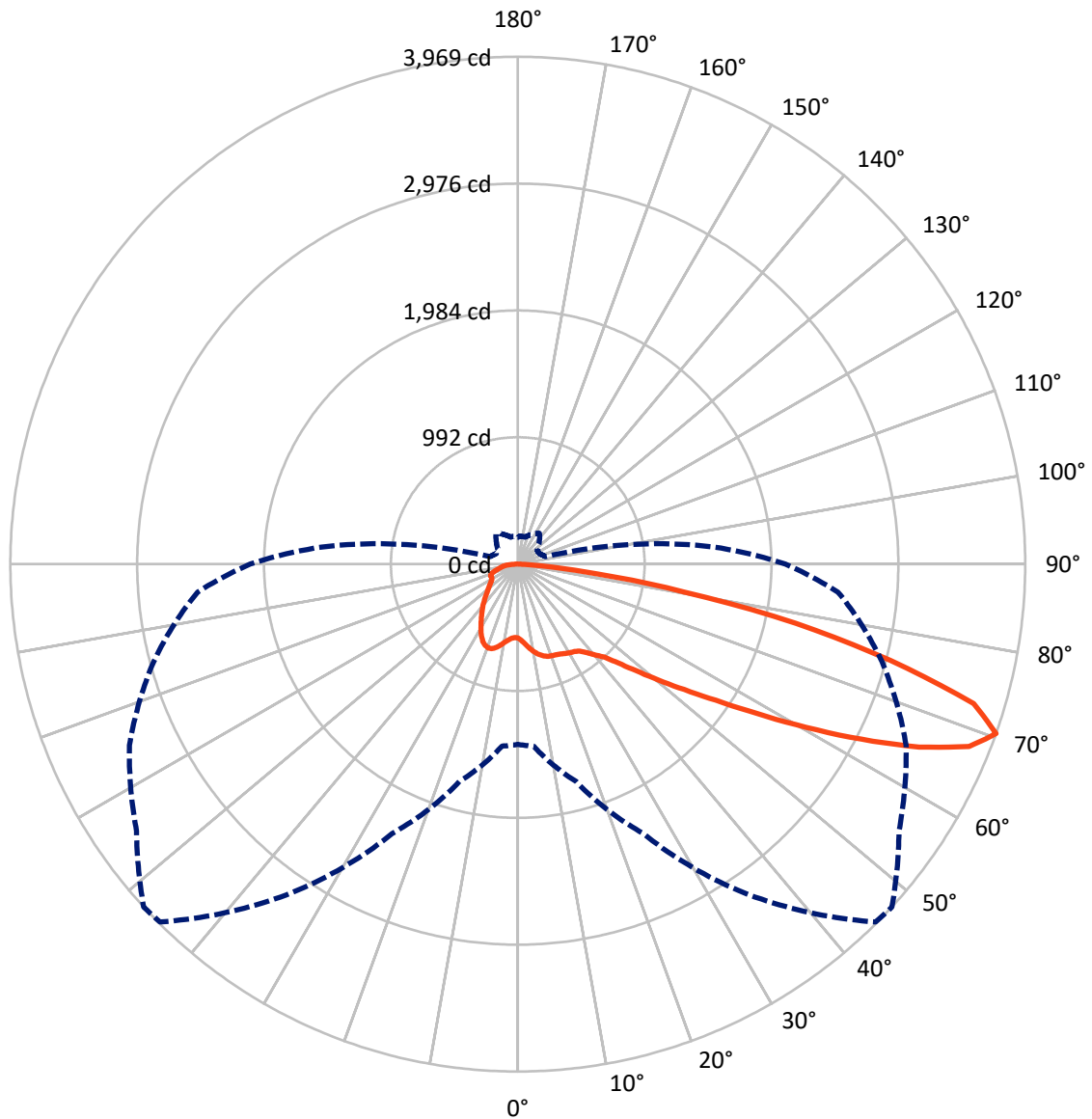
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1304.6 | 0.0 | 1304.6 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 4457.4 | 0.0 | 4457.4 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 5762.0 | 0.0 | 5762.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.6 | 1.0 |
| 10°-20° | 199.3 | 3.5 |
| 20°-30° | 331.5 | 5.8 |
| 30°-40° | 469.8 | 8.2 |
| 40°-50° | 693.6 | 12.0 |
| 50°-60° | 1201.3 | 20.8 |
| 60°-70° | 1696.9 | 29.4 |
| 70°-80° | 975.5 | 16.9 |
| 80°-90° | 134.6 | 2.3 |
| 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° | 5762.0 | 100.0 |
| 0°-180° | 5762.0 | 100.0 |

Coefficient of Utilization



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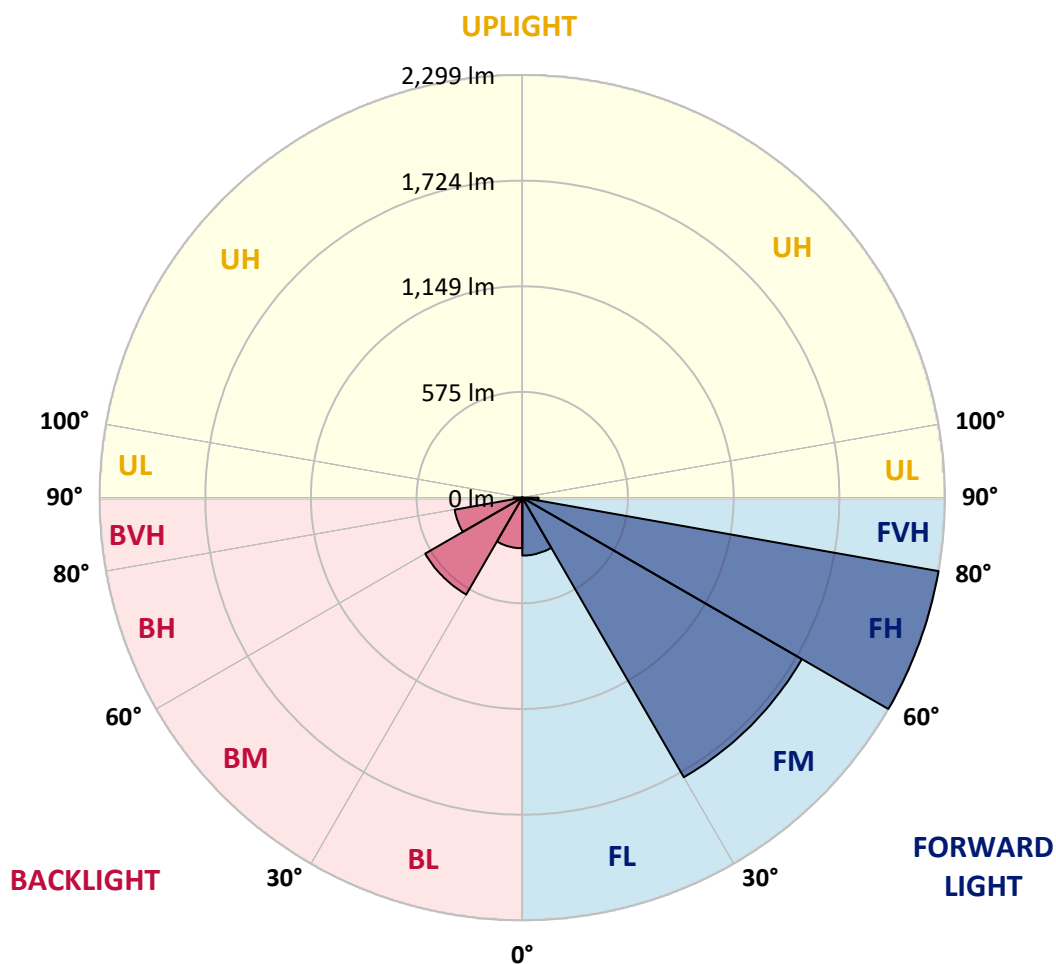
CATALOG NUMBER: GALN-SA1B-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 315.1 | 5.5 | | | |
| FM | (30°-60°) | 1755.6 | 30.5 | | | |
| FH | (60°-80°) | 2298.8 | 39.9 | | | G2/5000 |
| FVH | (80°-90°) | 87.9 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 275.4 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 609.1 | 10.6 | B1/1000 | | |
| BH | (60°-80°) | 373.5 | 6.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 46.7 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 |
| 2.5° | 615.7 | 613.6 | 613.3 | 608.7 | 606.2 | 601.6 | 599.7 | 595.4 | 590.2 | 584.9 | 580.0 |
| 5° | 664.2 | 664.2 | 662.0 | 655.5 | 645.3 | 634.9 | 630.2 | 621.9 | 607.1 | 595.1 | 584.9 |
| 7.5° | 713.8 | 714.4 | 710.1 | 700.5 | 686.0 | 669.1 | 664.8 | 652.4 | 631.5 | 613.9 | 598.8 |
| 10° | 756.7 | 756.7 | 750.8 | 737.8 | 719.7 | 701.2 | 696.8 | 683.0 | 659.5 | 637.6 | 617.9 |
| 12.5° | 789.3 | 789.3 | 781.6 | 764.7 | 744.9 | 728.3 | 723.4 | 710.1 | 688.2 | 663.8 | 638.9 |
| 15° | 810.6 | 809.1 | 800.4 | 781.3 | 762.2 | 747.7 | 744.3 | 733.2 | 713.2 | 688.5 | 660.5 |
| 17.5° | 811.5 | 810.9 | 802.6 | 786.6 | 769.9 | 760.0 | 757.9 | 750.5 | 734.8 | 711.3 | 681.7 |
| 20° | 793.7 | 794.9 | 789.3 | 777.9 | 769.9 | 765.6 | 764.7 | 762.2 | 751.1 | 729.2 | 699.6 |
| 22.5° | 774.5 | 776.7 | 771.5 | 765.3 | 764.7 | 769.0 | 769.6 | 770.2 | 763.1 | 741.9 | 714.7 |
| 25° | 769.9 | 771.5 | 766.2 | 760.7 | 764.1 | 775.5 | 777.9 | 780.4 | 774.8 | 757.0 | 732.6 |
| 27.5° | 793.3 | 792.1 | 781.9 | 769.9 | 772.1 | 787.5 | 790.9 | 793.7 | 790.9 | 775.5 | 754.8 |
| 30° | 859.6 | 855.6 | 835.3 | 800.1 | 789.0 | 799.8 | 803.2 | 810.9 | 810.9 | 799.5 | 778.9 |
| 32.5° | 970.6 | 962.9 | 925.6 | 856.6 | 818.0 | 811.5 | 814.9 | 827.6 | 834.0 | 825.1 | 802.6 |
| 35° | 1105.4 | 1097.4 | 1044.0 | 951.2 | 871.0 | 835.0 | 834.0 | 848.2 | 865.5 | 845.5 | 816.2 |
| 37.5° | 1240.7 | 1232.4 | 1168.3 | 1064.1 | 948.4 | 884.3 | 878.8 | 883.7 | 891.1 | 854.4 | 835.0 |
| 40° | 1376.1 | 1366.2 | 1310.1 | 1190.2 | 1043.1 | 949.7 | 935.2 | 913.0 | 909.9 | 883.7 | 871.4 |
| 42.5° | 1510.2 | 1501.3 | 1472.9 | 1331.7 | 1156.6 | 1013.5 | 991.3 | 953.1 | 964.8 | 949.1 | 938.3 |
| 45° | 1645.6 | 1646.2 | 1616.0 | 1490.5 | 1293.5 | 1131.3 | 1101.4 | 1041.6 | 1069.3 | 1063.4 | 1069.6 |
| 47.5° | 1765.5 | 1764.0 | 1753.2 | 1644.7 | 1463.4 | 1283.0 | 1244.4 | 1175.1 | 1222.5 | 1244.1 | 1291.3 |
| 50° | 1881.8 | 1880.8 | 1881.5 | 1819.5 | 1660.7 | 1463.4 | 1420.8 | 1348.0 | 1455.0 | 1530.0 | 1614.4 |
| 52.5° | 2048.3 | 2053.5 | 2016.2 | 1999.9 | 1900.6 | 1676.4 | 1629.5 | 1554.3 | 1729.8 | 1847.8 | 2012.8 |
| 55° | 2215.4 | 2211.1 | 2181.8 | 2198.7 | 2151.6 | 1928.6 | 1879.6 | 1819.8 | 2035.6 | 2164.8 | 2412.7 |
| 57.5° | 2313.7 | 2315.3 | 2345.2 | 2428.1 | 2461.4 | 2243.1 | 2198.7 | 2152.5 | 2379.4 | 2471.0 | 2768.5 |
| 60° | 2402.2 | 2409.3 | 2495.4 | 2652.0 | 2742.3 | 2629.5 | 2590.0 | 2545.0 | 2694.8 | 2731.2 | 3077.5 |
| 62.5° | 2430.0 | 2451.9 | 2602.0 | 2836.4 | 3016.1 | 3065.5 | 3016.4 | 2917.2 | 2995.2 | 2981.0 | 3286.8 |
| 65° | 2291.5 | 2321.5 | 2590.6 | 2905.4 | 3260.6 | 3479.2 | 3448.1 | 3263.7 | 3251.1 | 3165.7 | 3321.1 |
| 67.5° | 1927.1 | 1957.0 | 2302.6 | 2760.5 | 3361.8 | 3837.5 | 3806.4 | 3516.6 | 3406.5 | 3182.9 | 3062.1 |
| 70° | 1410.0 | 1428.8 | 1759.4 | 2324.2 | 3158.6 | 3957.8 | 3968.6 | 3639.9 | 3351.0 | 2948.3 | 2514.2 |
| 72.5° | 812.5 | 854.1 | 1085.6 | 1635.1 | 2580.5 | 3653.8 | 3728.7 | 3383.4 | 3000.1 | 2459.6 | 1757.8 |
| 75° | 349.3 | 350.3 | 502.0 | 901.9 | 1747.6 | 2936.9 | 3009.3 | 2804.6 | 2356.0 | 1700.8 | 938.6 |
| 77.5° | 166.2 | 169.3 | 220.8 | 402.7 | 962.0 | 2029.1 | 2224.6 | 1981.4 | 1506.8 | 817.1 | 354.6 |
| 80° | 107.9 | 110.1 | 135.1 | 199.8 | 471.8 | 1176.6 | 1312.9 | 1143.0 | 664.8 | 292.0 | 152.9 |
| 82.5° | 65.4 | 66.0 | 90.3 | 122.1 | 259.6 | 532.8 | 628.1 | 496.1 | 283.7 | 174.8 | 90.0 |
| 85° | 39.8 | 40.1 | 54.9 | 75.5 | 157.6 | 184.1 | 189.0 | 187.5 | 166.5 | 114.4 | 48.1 |
| 87.5° | 19.1 | 19.7 | 28.4 | 35.8 | 62.0 | 57.0 | 54.0 | 62.6 | 78.6 | 61.7 | 20.7 |
| 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° | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 | 578.4 |
| 2.5° | 577.8 | 576.9 | 574.7 | 573.8 | 573.2 | 573.5 | 573.2 | 573.2 | 573.5 | 573.5 | 573.5 |
| 5° | 580.6 | 579.1 | 575.7 | 575.7 | 577.5 | 581.8 | 585.8 | 588.9 | 592.3 | 592.0 | 592.0 |
| 7.5° | 592.6 | 589.8 | 585.8 | 587.1 | 591.7 | 598.5 | 605.6 | 612.4 | 619.1 | 619.8 | 619.4 |
| 10° | 610.2 | 607.4 | 603.1 | 604.6 | 612.0 | 622.2 | 631.2 | 641.0 | 648.4 | 650.6 | 650.0 |
| 12.5° | 630.2 | 624.7 | 621.0 | 625.3 | 637.0 | 650.6 | 659.2 | 666.6 | 671.9 | 674.9 | 673.7 |
| 15° | 650.6 | 645.3 | 641.0 | 650.0 | 664.2 | 676.8 | 681.1 | 682.3 | 683.3 | 686.4 | 685.7 |
| 17.5° | 670.3 | 663.2 | 661.7 | 673.4 | 687.0 | 692.5 | 690.1 | 684.8 | 680.8 | 683.3 | 683.0 |
| 20° | 687.9 | 682.3 | 681.7 | 693.4 | 698.7 | 693.4 | 683.0 | 673.7 | 666.6 | 667.2 | 666.9 |
| 22.5° | 704.5 | 700.2 | 700.8 | 705.8 | 697.5 | 679.6 | 662.3 | 649.7 | 642.0 | 643.5 | 644.4 |
| 25° | 723.0 | 718.7 | 720.3 | 712.3 | 684.8 | 653.7 | 628.7 | 617.9 | 614.8 | 617.9 | 620.1 |
| 27.5° | 747.1 | 744.3 | 743.4 | 712.6 | 662.3 | 615.4 | 587.1 | 583.1 | 585.8 | 592.6 | 596.0 |
| 30° | 773.0 | 773.0 | 768.1 | 707.3 | 631.5 | 569.5 | 544.8 | 545.4 | 555.0 | 564.6 | 568.0 |
| 32.5° | 798.0 | 803.2 | 787.8 | 693.1 | 591.7 | 524.8 | 506.0 | 506.6 | 514.9 | 526.6 | 529.7 |
| 35° | 818.6 | 833.7 | 804.8 | 667.2 | 544.8 | 487.2 | 473.0 | 464.7 | 465.0 | 473.9 | 476.4 |
| 37.5° | 847.0 | 875.1 | 814.6 | 628.7 | 494.9 | 455.1 | 439.1 | 424.6 | 415.0 | 411.3 | 411.3 |
| 40° | 896.3 | 937.6 | 817.1 | 571.7 | 447.7 | 424.6 | 401.8 | 384.5 | 366.0 | 349.3 | 346.3 |
| 42.5° | 979.9 | 1032.0 | 812.2 | 506.0 | 405.2 | 391.0 | 368.8 | 347.5 | 321.9 | 298.5 | 296.6 |
| 45° | 1127.9 | 1154.7 | 798.9 | 437.8 | 367.2 | 358.6 | 337.0 | 313.9 | 286.8 | 265.8 | 264.2 |
| 47.5° | 1365.0 | 1327.1 | 781.3 | 377.4 | 332.7 | 330.2 | 313.6 | 286.8 | 259.6 | 245.1 | 243.6 |
| 50° | 1711.3 | 1598.4 | 778.9 | 333.6 | 304.9 | 306.2 | 292.6 | 267.9 | 244.2 | 232.2 | 230.3 |
| 52.5° | 2128.1 | 1926.2 | 795.2 | 302.8 | 280.6 | 285.2 | 278.4 | 255.6 | 234.6 | 224.5 | 222.6 |
| 55° | 2532.7 | 2220.9 | 805.1 | 278.7 | 257.8 | 266.4 | 267.3 | 248.2 | 229.1 | 218.9 | 217.7 |
| 57.5° | 2861.0 | 2442.9 | 761.3 | 256.8 | 238.0 | 251.3 | 258.1 | 243.9 | 226.3 | 218.6 | 217.4 |
| 60° | 3089.5 | 2547.8 | 636.7 | 237.4 | 223.5 | 239.3 | 254.7 | 244.2 | 233.1 | 234.0 | 234.6 |
| 62.5° | 3162.3 | 2501.2 | 477.6 | 222.9 | 213.7 | 235.3 | 260.2 | 256.8 | 245.4 | 252.5 | 253.8 |
| 65° | 3041.7 | 2308.8 | 346.3 | 211.5 | 205.0 | 238.0 | 276.9 | 266.1 | 241.1 | 246.4 | 246.4 |
| 67.5° | 2638.1 | 1989.1 | 269.5 | 201.0 | 195.2 | 243.3 | 293.5 | 265.2 | 230.9 | 237.1 | 231.6 |
| 70° | 2092.7 | 1538.6 | 224.5 | 189.3 | 184.7 | 235.6 | 295.1 | 255.6 | 218.9 | 220.2 | 209.7 |
| 72.5° | 1388.7 | 1011.6 | 193.0 | 178.2 | 168.7 | 211.8 | 282.4 | 243.3 | 207.2 | 200.1 | 189.6 |
| 75° | 680.5 | 504.4 | 168.4 | 164.3 | 147.7 | 184.4 | 265.2 | 231.6 | 194.6 | 183.5 | 177.6 |
| 77.5° | 263.6 | 214.6 | 143.7 | 146.8 | 128.6 | 162.5 | 242.4 | 214.9 | 177.9 | 162.8 | 158.2 |
| 80° | 128.0 | 121.8 | 117.8 | 122.4 | 105.8 | 138.4 | 221.4 | 200.4 | 162.5 | 145.8 | 139.1 |
| 82.5° | 79.6 | 75.2 | 90.3 | 95.3 | 81.4 | 126.4 | 210.0 | 188.1 | 143.1 | 120.9 | 115.3 |
| 85° | 40.4 | 43.2 | 60.4 | 65.1 | 58.3 | 100.5 | 173.0 | 141.2 | 103.3 | 85.7 | 86.3 |
| 87.5° | 15.4 | 20.7 | 31.8 | 34.2 | 31.1 | 53.0 | 95.3 | 82.3 | 66.3 | 45.0 | 41.6 |
| 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)