

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: P450168

Luminaire Tested: **GALN-SA1A-722-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3395 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

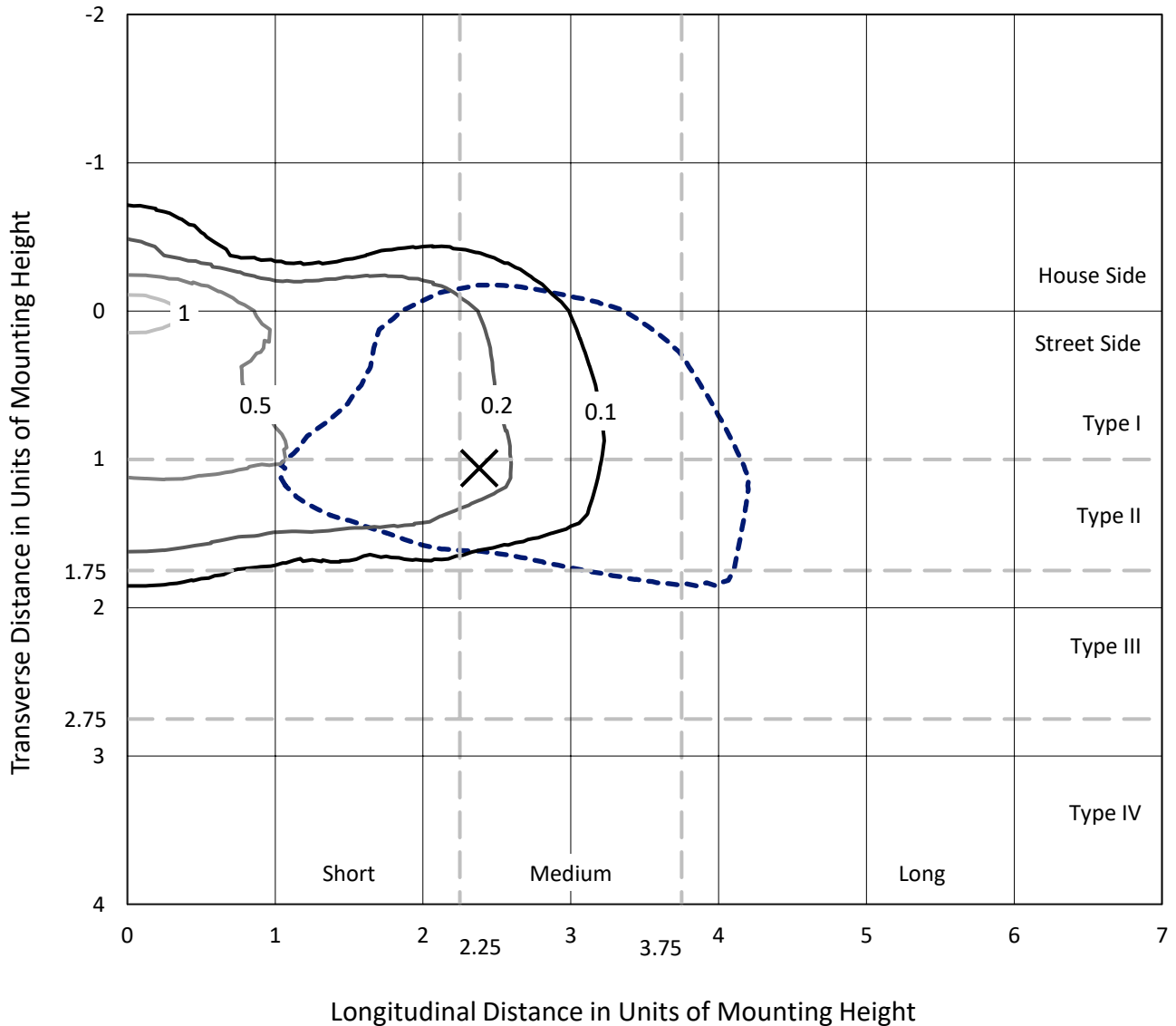
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

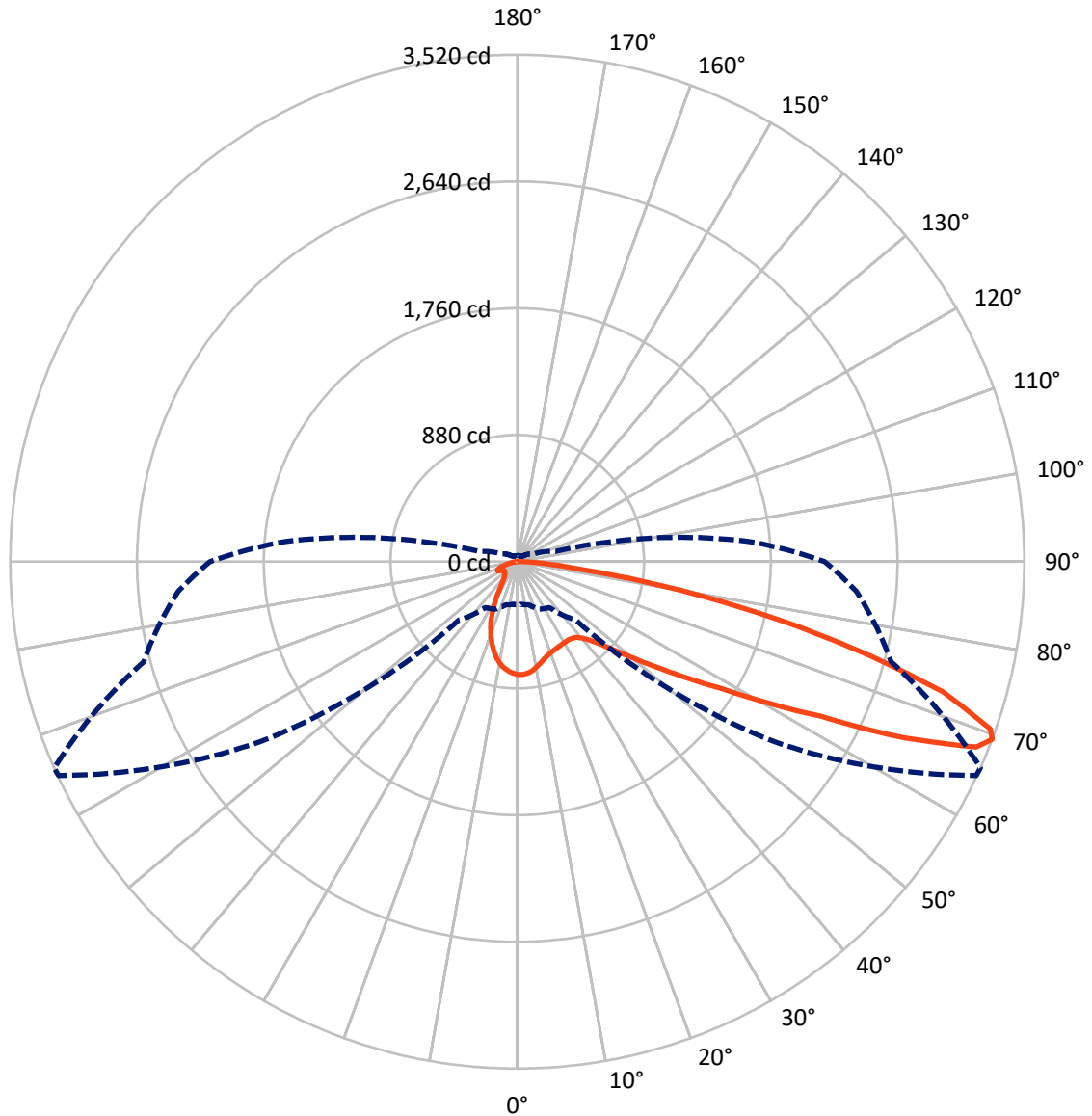
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 638.5 | 0.0 | 638.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 2756.5 | 0.0 | 2756.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 3395.0 | 0.0 | 3395.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.1 | 2.0 |
| 10°-20° | 161.5 | 4.8 |
| 20°-30° | 219.8 | 6.5 |
| 30°-40° | 295.4 | 8.7 |
| 40°-50° | 441.1 | 13.0 |
| 50°-60° | 701.6 | 20.7 |
| 60°-70° | 863.0 | 25.4 |
| 70°-80° | 561.5 | 16.5 |
| 80°-90° | 82.9 | 2.4 |
| 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° | 3395.0 | 100.0 |
| 0°-180° | 3395.0 | 100.0 |

Coefficient of Utilization



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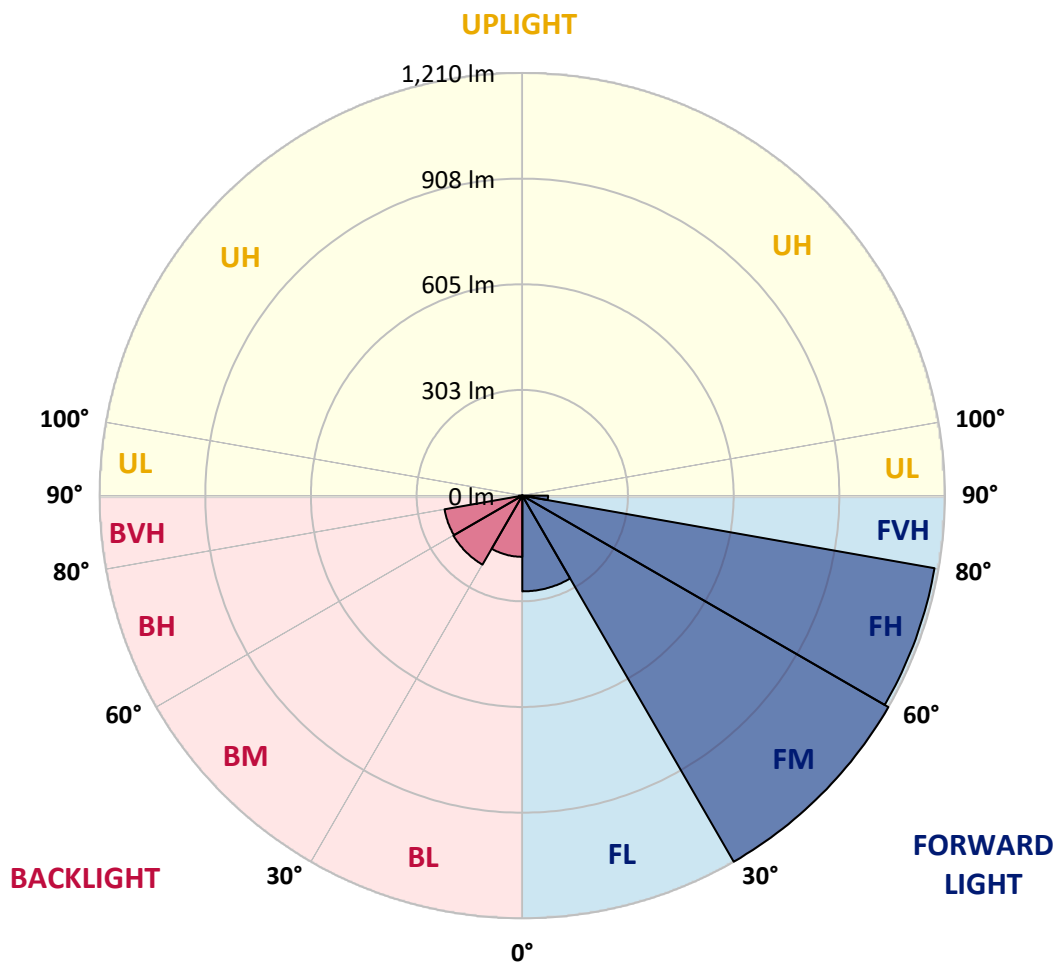
CATALOG NUMBER: GALN-SA1A-722-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 274.1 | 8.1 | | | |
| FM | (30°-60°) | 1210.2 | 35.6 | | | |
| FH | (60°-80°) | 1198.5 | 35.3 | | | G1/1800 |
| FVH | (80°-90°) | 73.7 | 2.2 | | | G1/100 |
| BL | (0°-30°) | 175.3 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 228.0 | 6.7 | B1/1000 | | |
| BH | (60°-80°) | 226.1 | 6.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 9.2 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 |
| 2.5° | 756.6 | 759.6 | 762.9 | 766.7 | 773.8 | 777.8 | 780.6 | 783.8 | 784.2 | 785.9 | 784.6 |
| 5° | 700.7 | 704.3 | 709.4 | 716.5 | 727.2 | 744.0 | 761.3 | 775.4 | 777.0 | 784.9 | 787.2 |
| 7.5° | 654.1 | 656.2 | 660.3 | 671.8 | 687.0 | 705.6 | 730.8 | 759.4 | 763.5 | 782.3 | 788.9 |
| 10° | 616.1 | 618.2 | 623.1 | 634.9 | 649.9 | 673.3 | 700.9 | 738.5 | 741.9 | 774.2 | 789.3 |
| 12.5° | 587.7 | 589.6 | 594.9 | 606.5 | 623.8 | 645.6 | 676.1 | 715.9 | 720.8 | 763.5 | 785.7 |
| 15° | 566.1 | 569.7 | 574.0 | 583.6 | 601.8 | 622.9 | 652.4 | 695.3 | 699.2 | 752.2 | 783.2 |
| 17.5° | 556.9 | 558.6 | 561.6 | 570.4 | 583.8 | 604.5 | 634.2 | 679.1 | 683.8 | 744.3 | 782.7 |
| 20° | 557.3 | 559.0 | 559.5 | 564.4 | 574.0 | 591.9 | 621.2 | 666.3 | 671.9 | 737.4 | 783.6 |
| 22.5° | 570.0 | 570.2 | 568.2 | 566.5 | 570.2 | 585.1 | 612.0 | 656.7 | 663.3 | 734.4 | 784.4 |
| 25° | 589.8 | 593.2 | 590.2 | 582.3 | 575.3 | 582.5 | 608.4 | 651.5 | 657.7 | 730.0 | 783.4 |
| 27.5° | 621.7 | 622.3 | 619.9 | 609.2 | 591.1 | 585.8 | 606.9 | 647.5 | 652.8 | 726.8 | 778.7 |
| 30° | 664.6 | 662.9 | 660.7 | 648.8 | 620.4 | 598.8 | 610.1 | 643.9 | 649.4 | 722.1 | 773.1 |
| 32.5° | 708.0 | 713.3 | 711.2 | 697.3 | 660.5 | 624.0 | 620.4 | 643.6 | 648.1 | 718.6 | 766.9 |
| 35° | 754.1 | 756.6 | 766.3 | 759.2 | 721.4 | 664.8 | 639.8 | 649.4 | 653.0 | 718.8 | 762.6 |
| 37.5° | 790.2 | 796.8 | 819.7 | 825.9 | 790.4 | 718.8 | 671.2 | 665.9 | 667.4 | 728.0 | 764.3 |
| 40° | 833.8 | 845.1 | 874.6 | 900.0 | 876.7 | 788.9 | 724.6 | 696.6 | 698.5 | 750.2 | 775.4 |
| 42.5° | 889.1 | 897.0 | 936.7 | 971.1 | 967.3 | 881.6 | 789.3 | 746.8 | 747.7 | 794.3 | 806.4 |
| 45° | 953.8 | 965.1 | 1009.6 | 1061.3 | 1070.2 | 986.5 | 882.7 | 822.7 | 822.2 | 863.0 | 864.3 |
| 47.5° | 1036.5 | 1043.5 | 1087.6 | 1144.0 | 1179.8 | 1118.3 | 996.1 | 931.8 | 925.8 | 963.0 | 952.3 |
| 50° | 1112.6 | 1123.5 | 1157.0 | 1218.7 | 1307.6 | 1272.6 | 1145.2 | 1073.2 | 1059.1 | 1093.8 | 1075.8 |
| 52.5° | 1144.6 | 1156.1 | 1184.3 | 1260.8 | 1417.2 | 1472.3 | 1334.5 | 1241.8 | 1218.3 | 1245.0 | 1238.4 |
| 55° | 1089.1 | 1104.0 | 1130.3 | 1223.4 | 1465.3 | 1702.6 | 1589.8 | 1436.8 | 1419.7 | 1408.2 | 1410.1 |
| 57.5° | 940.0 | 954.1 | 989.7 | 1092.3 | 1407.8 | 1869.8 | 1954.4 | 1687.4 | 1650.7 | 1597.9 | 1606.9 |
| 60° | 715.6 | 724.4 | 742.8 | 856.6 | 1237.3 | 1913.2 | 2368.4 | 2004.2 | 1980.9 | 1786.8 | 1793.2 |
| 62.5° | 508.2 | 518.2 | 530.9 | 587.7 | 905.8 | 1790.8 | 2692.5 | 2446.6 | 2363.3 | 1982.6 | 1976.4 |
| 65° | 412.7 | 405.9 | 421.3 | 447.8 | 531.5 | 1387.9 | 2765.4 | 3060.6 | 2945.9 | 2240.3 | 2154.2 |
| 67.5° | 339.4 | 332.2 | 347.4 | 394.6 | 404.2 | 805.6 | 2502.6 | 3459.2 | 3436.3 | 2520.6 | 2334.9 |
| 69° | 300.4 | 296.7 | 310.0 | 363.8 | 388.1 | 572.1 | 2180.2 | 3514.7 | 3520.1 | 2685.9 | 2362.7 |
| 70° | 270.7 | 272.2 | 285.2 | 348.2 | 380.7 | 471.7 | 1863.4 | 3438.1 | 3484.4 | 2768.4 | 2332.6 |
| 72.5° | 199.3 | 202.5 | 220.5 | 288.4 | 373.8 | 400.3 | 1108.9 | 3003.1 | 3084.9 | 2773.3 | 2133.9 |
| 75° | 139.3 | 137.8 | 153.8 | 217.2 | 353.1 | 396.7 | 651.3 | 2322.5 | 2415.2 | 2397.1 | 1793.0 |
| 77.5° | 91.2 | 93.6 | 106.4 | 153.4 | 297.1 | 393.7 | 424.5 | 1647.7 | 1707.9 | 1603.2 | 1060.6 |
| 80° | 64.3 | 64.1 | 71.3 | 104.7 | 220.3 | 378.3 | 347.6 | 1038.6 | 1023.3 | 630.0 | 314.5 |
| 82.5° | 36.8 | 39.5 | 47.8 | 73.7 | 147.4 | 333.0 | 319.8 | 496.7 | 453.5 | 179.5 | 106.2 |
| 85° | 20.5 | 21.4 | 28.4 | 44.6 | 86.1 | 250.8 | 279.2 | 226.0 | 213.2 | 75.0 | 45.7 |
| 87.5° | 6.6 | 7.1 | 11.8 | 22.6 | 39.1 | 118.4 | 158.1 | 104.3 | 96.3 | 27.1 | 18.4 |
| 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° | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 | 784.0 |
| 2.5° | 785.1 | 787.4 | 781.4 | 775.5 | 770.3 | 762.9 | 756.4 | 750.9 | 747.1 | 746.6 | 744.7 |
| 5° | 787.8 | 787.9 | 776.5 | 761.1 | 746.0 | 729.5 | 712.4 | 700.1 | 688.7 | 682.3 | 679.1 |
| 7.5° | 789.6 | 787.9 | 767.3 | 742.3 | 713.3 | 683.2 | 653.1 | 629.1 | 610.5 | 603.1 | 606.0 |
| 10° | 788.9 | 783.6 | 753.4 | 713.3 | 671.2 | 626.3 | 583.0 | 549.2 | 518.2 | 502.2 | 502.5 |
| 12.5° | 784.8 | 776.1 | 732.7 | 680.8 | 618.9 | 558.8 | 492.6 | 446.9 | 411.0 | 389.7 | 383.2 |
| 15° | 781.2 | 766.1 | 708.4 | 636.6 | 559.7 | 473.8 | 393.1 | 336.7 | 306.6 | 289.9 | 289.7 |
| 17.5° | 777.4 | 756.6 | 681.9 | 589.8 | 491.6 | 381.1 | 296.5 | 253.4 | 239.3 | 241.0 | 238.2 |
| 20° | 773.5 | 745.3 | 654.3 | 537.7 | 408.7 | 284.3 | 222.0 | 204.6 | 208.5 | 216.2 | 217.3 |
| 22.5° | 769.0 | 733.2 | 624.6 | 480.4 | 321.5 | 214.0 | 180.1 | 177.5 | 187.6 | 199.7 | 201.4 |
| 25° | 762.0 | 718.2 | 587.2 | 420.4 | 248.0 | 172.4 | 157.7 | 159.6 | 169.6 | 179.7 | 180.9 |
| 27.5° | 752.2 | 699.6 | 549.4 | 345.6 | 186.3 | 148.0 | 144.2 | 146.6 | 151.5 | 157.7 | 159.2 |
| 30° | 739.1 | 678.5 | 505.9 | 280.9 | 149.3 | 135.7 | 134.2 | 135.6 | 138.4 | 141.0 | 141.8 |
| 32.5° | 725.9 | 658.2 | 462.1 | 215.1 | 133.1 | 127.7 | 126.2 | 126.2 | 126.2 | 126.5 | 126.7 |
| 35° | 713.7 | 639.0 | 415.1 | 167.5 | 124.7 | 121.3 | 119.2 | 116.9 | 116.6 | 115.2 | 115.2 |
| 37.5° | 706.9 | 621.6 | 365.1 | 140.3 | 118.4 | 116.0 | 113.2 | 109.4 | 107.4 | 107.5 | 107.2 |
| 40° | 708.2 | 610.1 | 319.6 | 124.8 | 113.4 | 110.7 | 106.4 | 102.1 | 100.8 | 100.8 | 100.4 |
| 42.5° | 723.1 | 606.3 | 276.0 | 116.8 | 108.5 | 105.5 | 100.0 | 96.1 | 95.3 | 95.1 | 95.5 |
| 45° | 757.3 | 615.5 | 236.9 | 111.5 | 104.3 | 99.8 | 94.4 | 90.8 | 90.1 | 90.1 | 89.9 |
| 47.5° | 824.0 | 645.4 | 208.9 | 108.1 | 101.3 | 95.5 | 89.9 | 86.3 | 85.0 | 84.6 | 84.6 |
| 50° | 927.8 | 710.3 | 188.0 | 105.1 | 97.6 | 91.6 | 85.7 | 81.6 | 79.5 | 79.3 | 79.2 |
| 52.5° | 1072.0 | 811.4 | 179.9 | 102.8 | 93.4 | 87.4 | 81.0 | 77.1 | 74.5 | 73.9 | 73.5 |
| 55° | 1240.7 | 952.6 | 191.0 | 101.1 | 89.1 | 82.7 | 76.1 | 72.0 | 69.6 | 68.4 | 68.2 |
| 57.5° | 1436.0 | 1122.2 | 233.1 | 98.9 | 85.2 | 77.6 | 71.3 | 67.1 | 64.5 | 63.2 | 62.8 |
| 60° | 1611.4 | 1296.5 | 306.6 | 97.6 | 81.8 | 72.2 | 65.6 | 61.9 | 59.4 | 58.1 | 57.9 |
| 62.5° | 1804.1 | 1462.7 | 394.4 | 101.1 | 80.3 | 66.9 | 60.4 | 57.0 | 54.9 | 53.6 | 53.6 |
| 65° | 2010.0 | 1629.1 | 452.5 | 113.2 | 82.5 | 62.8 | 54.7 | 51.9 | 50.0 | 49.1 | 48.9 |
| 67.5° | 2148.8 | 1686.6 | 372.8 | 125.6 | 88.2 | 58.3 | 49.3 | 47.0 | 45.9 | 44.9 | 44.9 |
| 69° | 2133.7 | 1613.9 | 275.1 | 128.8 | 89.9 | 56.0 | 46.3 | 44.6 | 43.1 | 42.7 | 42.3 |
| 70° | 2086.2 | 1531.0 | 230.5 | 126.7 | 88.6 | 54.0 | 44.4 | 42.3 | 41.0 | 40.6 | 40.4 |
| 72.5° | 1858.1 | 1327.7 | 171.7 | 110.2 | 75.4 | 46.8 | 39.3 | 37.4 | 36.3 | 35.7 | 35.7 |
| 75° | 1543.7 | 1085.2 | 134.1 | 87.6 | 59.0 | 39.5 | 33.7 | 32.1 | 31.2 | 30.8 | 30.6 |
| 77.5° | 865.2 | 606.0 | 96.3 | 68.6 | 44.7 | 32.0 | 28.2 | 26.9 | 25.9 | 25.6 | 25.6 |
| 80° | 241.0 | 173.2 | 56.6 | 45.3 | 30.5 | 24.3 | 22.4 | 21.4 | 20.1 | 19.2 | 19.7 |
| 82.5° | 90.8 | 75.0 | 32.3 | 27.3 | 19.4 | 16.2 | 15.6 | 14.9 | 14.3 | 13.0 | 13.0 |
| 85° | 44.2 | 36.5 | 20.7 | 14.5 | 10.7 | 8.5 | 8.1 | 7.7 | 7.3 | 6.4 | 6.6 |
| 87.5° | 15.2 | 16.2 | 9.0 | 5.3 | 3.2 | 2.1 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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)