

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385575

Luminaire Tested: GAW-SA1A-827-U-SL3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1A-827-U-SL3
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

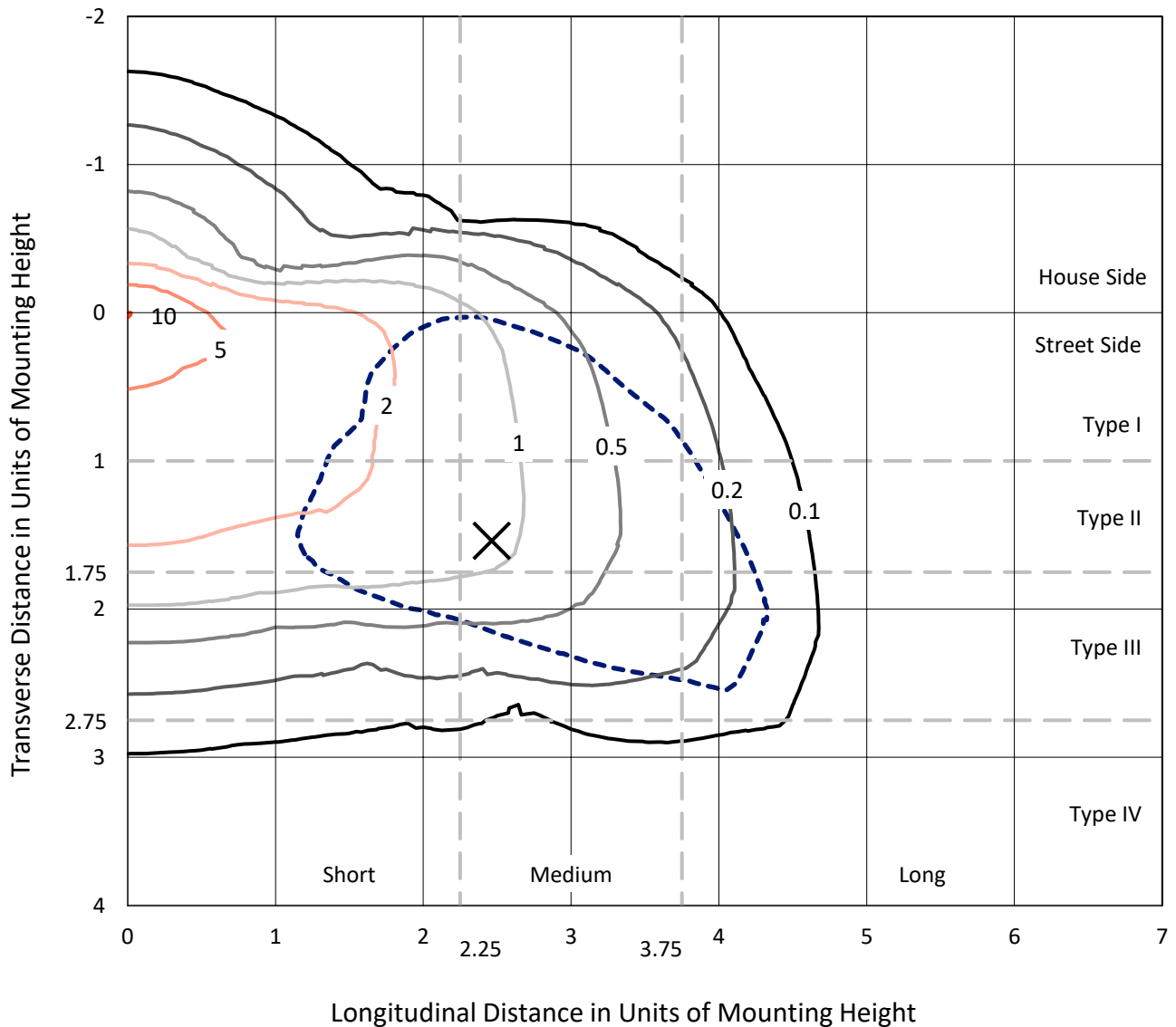
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

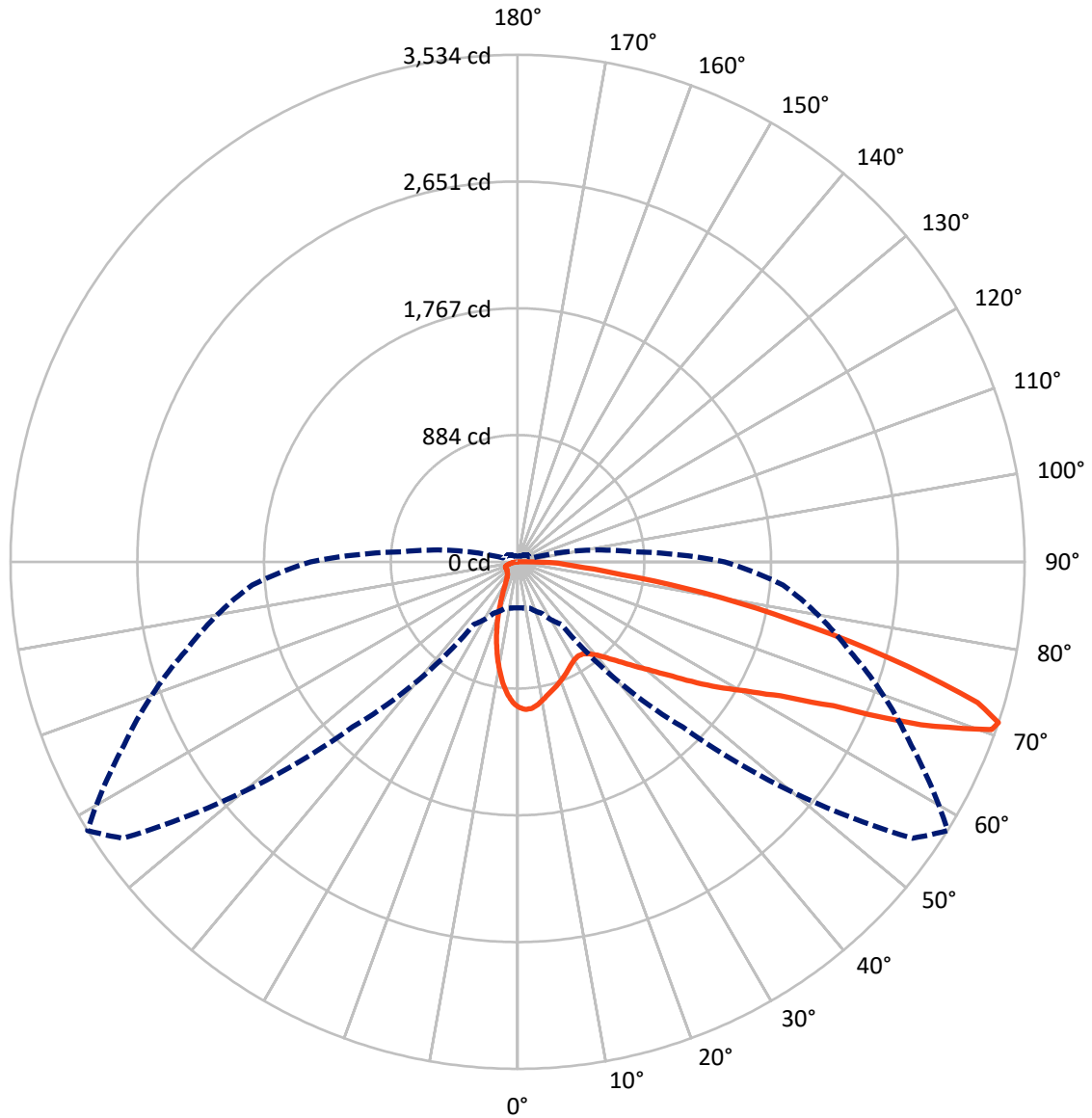
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 546.9 | 0.0 | 546.9 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 3111.1 | 0.0 | 3111.1 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 3658.0 | 0.0 | 3658.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.4 | 2.4 |
| 10°-20° | 194.4 | 5.3 |
| 20°-30° | 247.1 | 6.8 |
| 30°-40° | 314.7 | 8.6 |
| 40°-50° | 446.3 | 12.2 |
| 50°-60° | 690.7 | 18.9 |
| 60°-70° | 940.3 | 25.7 |
| 70°-80° | 627.3 | 17.1 |
| 80°-90° | 109.7 | 3.0 |
| 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° | 3658.0 | 100.0 |
| 0°-180° | 3658.0 | 100.0 |

Coefficient of Utilization

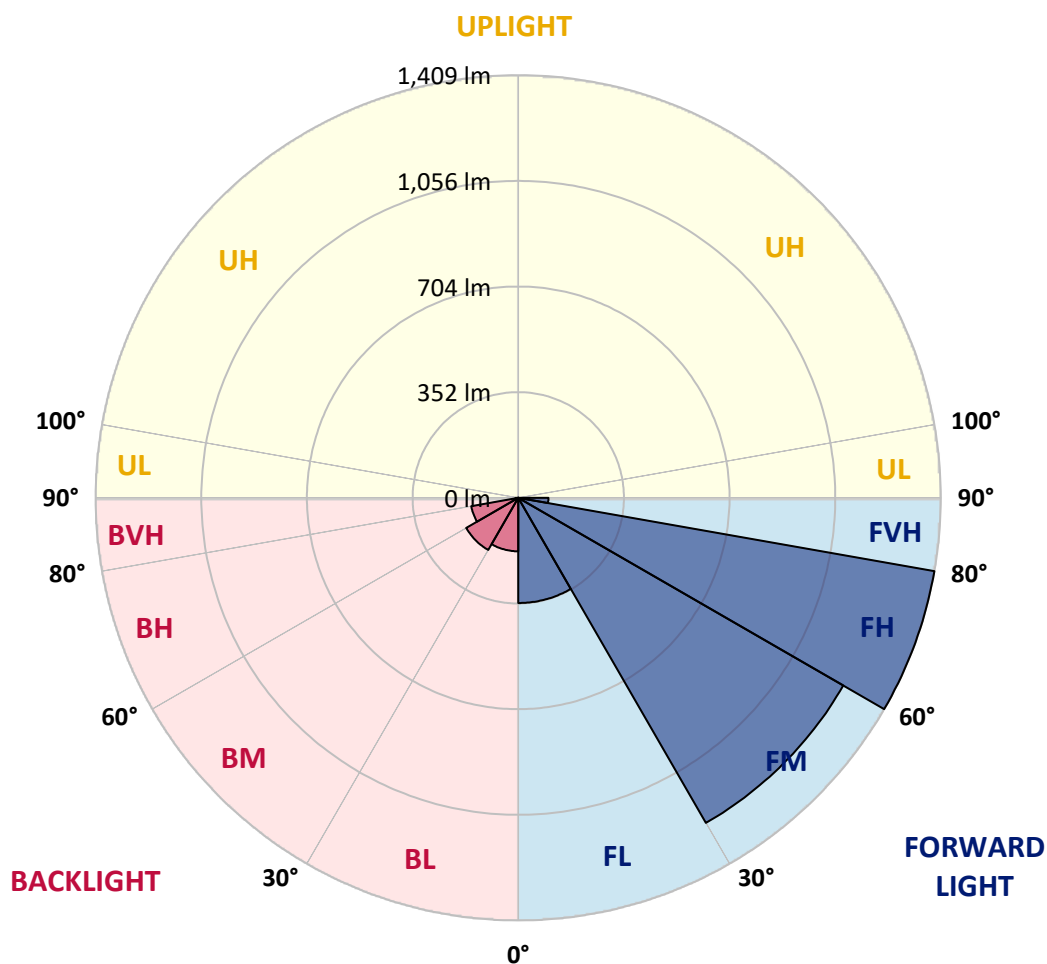


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 350.7 | 9.6 | | | |
| FM (30°-60°) | 1251.2 | 34.2 | | | |
| FH (60°-80°) | 1408.6 | 38.5 | | | G1/1800 |
| FVH (80°-90°) | 100.6 | 2.7 | | | G2/225 |
| BL (0°-30°) | 178.3 | 4.9 | B1/500 | | |
| BM (30°-60°) | 200.6 | 5.5 | B0/220 | | |
| BH (60°-80°) | 159.0 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.1 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 |
| 2.5° | 1040.4 | 1039.0 | 1039.5 | 1038.5 | 1036.1 | 1033.6 | 1030.1 | 1030.7 | 1025.7 | 1018.4 | 1009.2 |
| 5° | 1020.8 | 1020.3 | 1024.1 | 1026.3 | 1028.0 | 1026.6 | 1025.6 | 1026.9 | 1019.6 | 1009.4 | 993.5 |
| 7.5° | 979.6 | 974.0 | 978.9 | 986.1 | 993.0 | 998.2 | 1005.1 | 1006.0 | 1001.4 | 990.7 | 969.8 |
| 10° | 921.1 | 915.8 | 922.9 | 934.3 | 948.0 | 960.5 | 974.4 | 976.9 | 977.8 | 968.1 | 942.8 |
| 12.5° | 860.5 | 856.4 | 863.5 | 879.5 | 902.3 | 921.5 | 943.7 | 947.5 | 955.4 | 948.9 | 917.8 |
| 15° | 806.2 | 804.7 | 813.3 | 829.0 | 855.3 | 884.7 | 916.7 | 923.7 | 937.1 | 934.9 | 898.3 |
| 17.5° | 759.3 | 758.9 | 765.5 | 782.0 | 811.0 | 848.2 | 889.8 | 901.6 | 921.5 | 924.1 | 882.3 |
| 20° | 724.4 | 723.6 | 728.2 | 740.3 | 770.3 | 812.4 | 860.7 | 877.0 | 905.7 | 914.6 | 865.7 |
| 22.5° | 705.7 | 705.5 | 705.7 | 711.4 | 735.9 | 775.1 | 832.4 | 852.3 | 890.3 | 907.1 | 847.4 |
| 25° | 702.5 | 702.1 | 699.3 | 698.7 | 712.5 | 743.9 | 804.4 | 826.3 | 875.6 | 901.9 | 829.9 |
| 27.5° | 710.8 | 711.3 | 707.6 | 701.6 | 704.4 | 723.4 | 780.1 | 803.5 | 863.9 | 900.9 | 817.8 |
| 30° | 728.0 | 727.7 | 724.5 | 718.3 | 712.8 | 715.7 | 762.7 | 786.2 | 856.0 | 905.3 | 809.5 |
| 32.5° | 746.9 | 748.3 | 747.7 | 744.3 | 736.1 | 724.4 | 757.5 | 780.5 | 853.7 | 916.0 | 805.9 |
| 35° | 769.8 | 771.3 | 775.9 | 778.5 | 769.0 | 750.1 | 768.7 | 788.6 | 860.3 | 936.2 | 811.7 |
| 37.5° | 791.4 | 795.4 | 808.2 | 819.6 | 811.4 | 790.4 | 798.6 | 812.7 | 880.9 | 967.9 | 827.1 |
| 40° | 816.4 | 819.8 | 840.9 | 864.9 | 863.7 | 841.9 | 846.6 | 856.0 | 917.1 | 1013.4 | 855.0 |
| 42.5° | 841.0 | 847.9 | 878.3 | 912.5 | 922.3 | 903.0 | 910.6 | 915.5 | 968.0 | 1073.7 | 903.7 |
| 45° | 873.7 | 881.1 | 923.4 | 964.6 | 987.5 | 976.7 | 988.7 | 990.6 | 1032.1 | 1155.7 | 974.4 |
| 47.5° | 923.3 | 931.7 | 981.0 | 1024.2 | 1059.3 | 1060.4 | 1080.2 | 1079.4 | 1112.1 | 1249.6 | 1063.5 |
| 50° | 1000.5 | 1012.6 | 1053.0 | 1093.4 | 1136.0 | 1159.7 | 1186.0 | 1182.3 | 1208.1 | 1349.6 | 1166.0 |
| 52.5° | 1101.7 | 1107.3 | 1137.2 | 1167.1 | 1219.9 | 1273.1 | 1310.9 | 1307.6 | 1316.9 | 1452.5 | 1282.5 |
| 55° | 1206.6 | 1210.8 | 1223.1 | 1239.4 | 1310.5 | 1397.2 | 1477.2 | 1472.0 | 1448.4 | 1559.3 | 1397.6 |
| 57.5° | 1300.8 | 1309.4 | 1317.9 | 1324.7 | 1401.8 | 1526.9 | 1647.3 | 1647.7 | 1591.1 | 1674.4 | 1516.4 |
| 60° | 1315.5 | 1323.0 | 1379.5 | 1432.7 | 1557.9 | 1699.9 | 1829.4 | 1825.6 | 1738.8 | 1799.4 | 1649.0 |
| 62.5° | 1162.8 | 1179.8 | 1274.1 | 1415.8 | 1708.2 | 2016.4 | 2061.7 | 2057.0 | 1915.4 | 1953.5 | 1803.3 |
| 65° | 833.3 | 852.6 | 966.4 | 1179.3 | 1635.3 | 2365.2 | 2480.9 | 2417.4 | 2156.2 | 2143.0 | 1984.0 |
| 67.5° | 480.8 | 485.3 | 534.7 | 705.7 | 1245.2 | 2383.4 | 3120.4 | 3031.6 | 2530.2 | 2357.9 | 2072.4 |
| 70° | 355.5 | 355.4 | 367.1 | 434.3 | 673.8 | 1945.2 | 3424.6 | 3504.2 | 2923.9 | 2428.7 | 1947.4 |
| 71° | 321.5 | 321.9 | 335.0 | 395.3 | 533.6 | 1628.2 | 3360.0 | 3534.3 | 3027.7 | 2393.7 | 1856.9 |
| 72.5° | 275.0 | 276.2 | 294.5 | 354.5 | 448.9 | 1122.8 | 3081.7 | 3353.9 | 3076.8 | 2307.6 | 1715.3 |
| 75° | 208.6 | 211.5 | 236.7 | 298.8 | 410.3 | 569.4 | 2261.7 | 2678.1 | 2733.3 | 2036.2 | 1274.6 |
| 77.5° | 148.8 | 152.1 | 180.7 | 251.3 | 390.0 | 429.2 | 1514.7 | 1953.5 | 2011.5 | 1304.9 | 574.9 |
| 80° | 94.0 | 98.0 | 119.5 | 199.9 | 366.5 | 407.5 | 951.8 | 1313.1 | 1096.8 | 417.6 | 146.3 |
| 82.5° | 55.2 | 58.2 | 74.2 | 130.6 | 299.3 | 392.5 | 560.0 | 727.8 | 426.9 | 126.1 | 66.5 |
| 85° | 32.0 | 33.4 | 46.3 | 83.2 | 217.4 | 370.4 | 411.4 | 406.9 | 185.3 | 61.7 | 31.5 |
| 87.5° | 14.9 | 16.6 | 27.4 | 43.5 | 120.7 | 268.5 | 325.2 | 281.0 | 115.2 | 28.9 | 14.8 |
| 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° | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 | 1013.5 |
| 2.5° | 1004.7 | 1002.6 | 993.5 | 985.5 | 977.1 | 966.1 | 954.0 | 952.5 | 945.1 | 946.5 | 943.9 |
| 5° | 984.8 | 979.4 | 957.6 | 937.8 | 914.5 | 893.6 | 870.9 | 860.5 | 845.4 | 844.4 | 840.6 |
| 7.5° | 956.4 | 946.2 | 912.5 | 875.0 | 837.5 | 801.9 | 766.6 | 743.4 | 719.7 | 709.6 | 708.7 |
| 10° | 924.4 | 907.1 | 857.4 | 802.0 | 748.0 | 695.8 | 645.4 | 608.1 | 574.4 | 558.5 | 557.9 |
| 12.5° | 894.1 | 868.5 | 800.3 | 724.9 | 651.0 | 583.5 | 514.3 | 465.2 | 423.0 | 408.9 | 402.9 |
| 15° | 868.4 | 832.3 | 744.8 | 648.3 | 558.6 | 464.8 | 386.1 | 334.5 | 295.5 | 282.0 | 279.4 |
| 17.5° | 843.4 | 797.0 | 687.8 | 571.0 | 462.5 | 359.5 | 280.6 | 242.2 | 221.5 | 216.0 | 215.9 |
| 20° | 818.6 | 760.7 | 628.3 | 491.8 | 369.6 | 268.9 | 215.7 | 198.5 | 191.5 | 190.9 | 189.9 |
| 22.5° | 790.4 | 722.2 | 565.8 | 412.5 | 288.5 | 211.4 | 183.4 | 176.5 | 175.6 | 177.9 | 177.9 |
| 25° | 764.0 | 684.0 | 502.3 | 334.7 | 224.4 | 176.4 | 163.7 | 162.3 | 164.8 | 168.8 | 169.2 |
| 27.5° | 739.4 | 647.2 | 440.4 | 265.7 | 179.8 | 155.3 | 150.1 | 151.8 | 156.1 | 160.8 | 160.9 |
| 30° | 719.2 | 612.4 | 380.2 | 209.4 | 151.9 | 139.7 | 138.8 | 142.1 | 146.8 | 150.5 | 151.4 |
| 32.5° | 703.5 | 582.7 | 322.1 | 168.3 | 133.7 | 127.9 | 128.7 | 131.5 | 134.4 | 136.5 | 137.9 |
| 35° | 696.2 | 557.2 | 268.5 | 141.9 | 122.1 | 118.9 | 119.9 | 121.4 | 122.7 | 124.2 | 125.4 |
| 37.5° | 697.5 | 537.5 | 220.6 | 125.5 | 114.3 | 112.6 | 112.6 | 112.6 | 112.6 | 113.4 | 113.5 |
| 40° | 709.4 | 526.1 | 181.6 | 115.1 | 109.1 | 107.3 | 105.9 | 104.6 | 103.6 | 104.1 | 103.8 |
| 42.5° | 739.7 | 525.1 | 153.0 | 108.4 | 104.9 | 101.9 | 99.1 | 97.4 | 96.1 | 96.6 | 96.8 |
| 45° | 791.2 | 537.8 | 133.8 | 103.7 | 100.9 | 96.5 | 92.9 | 91.0 | 90.1 | 91.7 | 92.0 |
| 47.5° | 857.8 | 565.6 | 122.1 | 100.3 | 97.2 | 91.4 | 87.5 | 85.8 | 86.0 | 88.4 | 89.1 |
| 50° | 943.7 | 610.7 | 116.5 | 98.1 | 94.7 | 87.0 | 83.1 | 81.5 | 82.3 | 85.8 | 86.5 |
| 52.5° | 1038.0 | 675.7 | 117.1 | 97.5 | 93.0 | 83.8 | 79.6 | 77.9 | 79.1 | 82.3 | 83.0 |
| 55° | 1146.8 | 753.8 | 127.7 | 98.4 | 90.6 | 81.8 | 76.8 | 73.8 | 74.8 | 77.7 | 78.2 |
| 57.5° | 1267.7 | 843.3 | 149.0 | 98.1 | 87.5 | 79.9 | 73.9 | 69.3 | 70.1 | 71.9 | 72.4 |
| 60° | 1393.6 | 951.3 | 182.0 | 98.9 | 86.1 | 77.6 | 70.0 | 64.2 | 64.0 | 65.5 | 65.7 |
| 62.5° | 1544.7 | 1076.3 | 219.7 | 99.4 | 87.0 | 74.7 | 64.7 | 59.1 | 58.4 | 58.7 | 59.0 |
| 65° | 1700.4 | 1166.8 | 205.5 | 97.4 | 89.8 | 72.2 | 60.1 | 54.2 | 52.8 | 52.5 | 52.6 |
| 67.5° | 1705.3 | 1069.8 | 144.1 | 93.3 | 91.0 | 71.0 | 56.7 | 49.9 | 47.7 | 46.8 | 46.6 |
| 70° | 1529.3 | 869.1 | 112.3 | 88.9 | 86.4 | 68.9 | 53.5 | 46.5 | 43.1 | 41.7 | 41.5 |
| 71° | 1443.4 | 800.1 | 106.4 | 86.8 | 83.0 | 66.9 | 52.1 | 45.0 | 41.4 | 39.9 | 39.6 |
| 72.5° | 1308.7 | 717.3 | 99.3 | 83.3 | 76.3 | 61.7 | 49.4 | 42.8 | 39.1 | 37.3 | 37.0 |
| 75° | 939.2 | 469.0 | 85.2 | 74.3 | 63.2 | 49.2 | 43.3 | 38.5 | 35.3 | 33.1 | 32.9 |
| 77.5° | 361.9 | 186.7 | 64.5 | 61.8 | 48.4 | 38.5 | 35.7 | 33.3 | 31.0 | 28.8 | 28.7 |
| 80° | 111.9 | 83.5 | 47.0 | 46.5 | 35.0 | 28.7 | 27.8 | 27.1 | 26.2 | 24.0 | 23.4 |
| 82.5° | 59.8 | 47.9 | 32.4 | 30.1 | 22.9 | 19.1 | 20.1 | 20.4 | 20.5 | 18.1 | 17.8 |
| 85° | 28.5 | 25.4 | 18.2 | 17.1 | 13.4 | 10.7 | 12.4 | 13.4 | 13.5 | 11.1 | 10.3 |
| 87.5° | 13.6 | 13.3 | 8.5 | 6.5 | 5.0 | 3.6 | 4.3 | 5.4 | 5.9 | 4.2 | 3.7 |
| 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)