

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: STREETWORKS

Report Number: P533587

Luminaire Tested: **GLAN-SA9A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22542 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

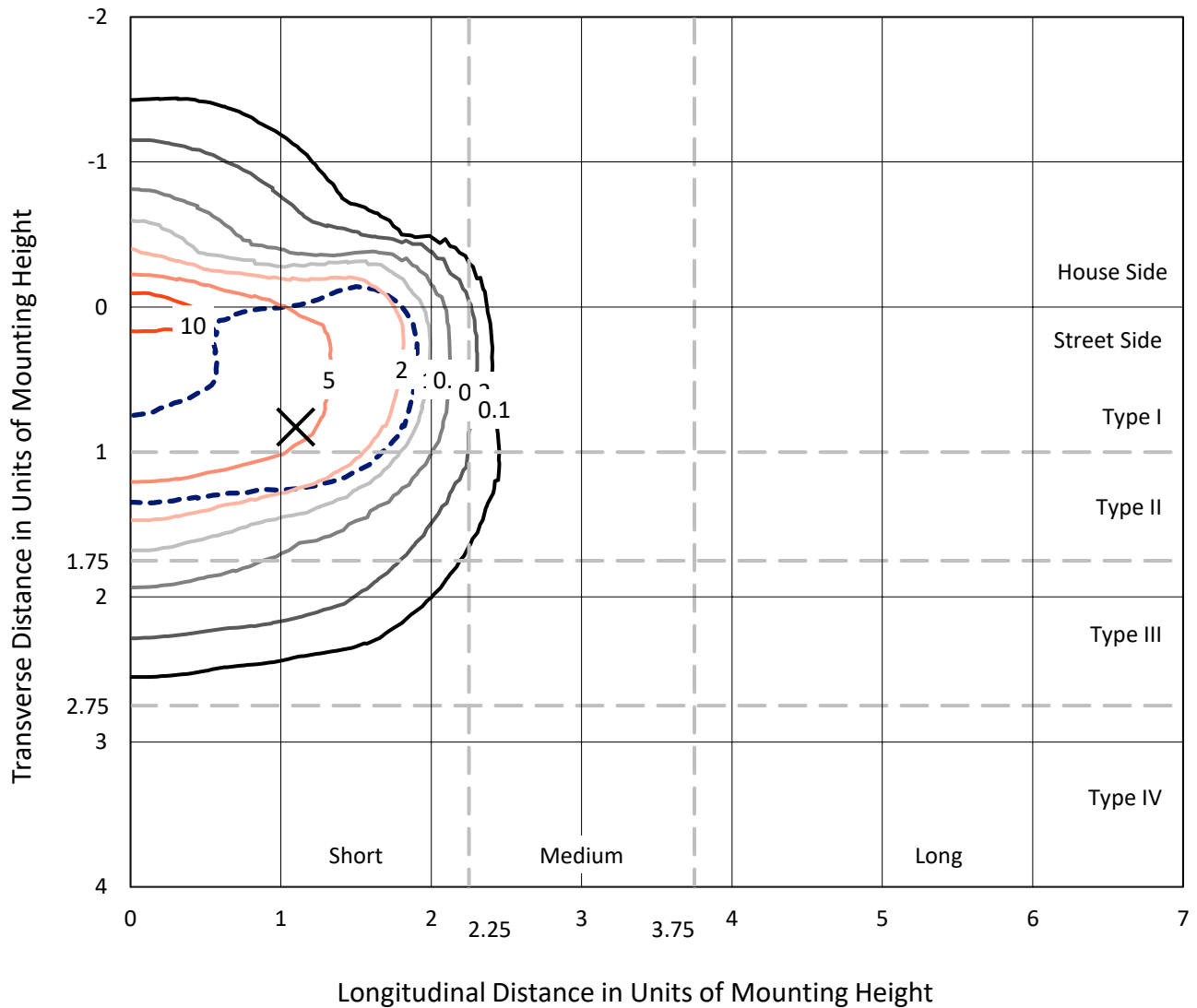
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

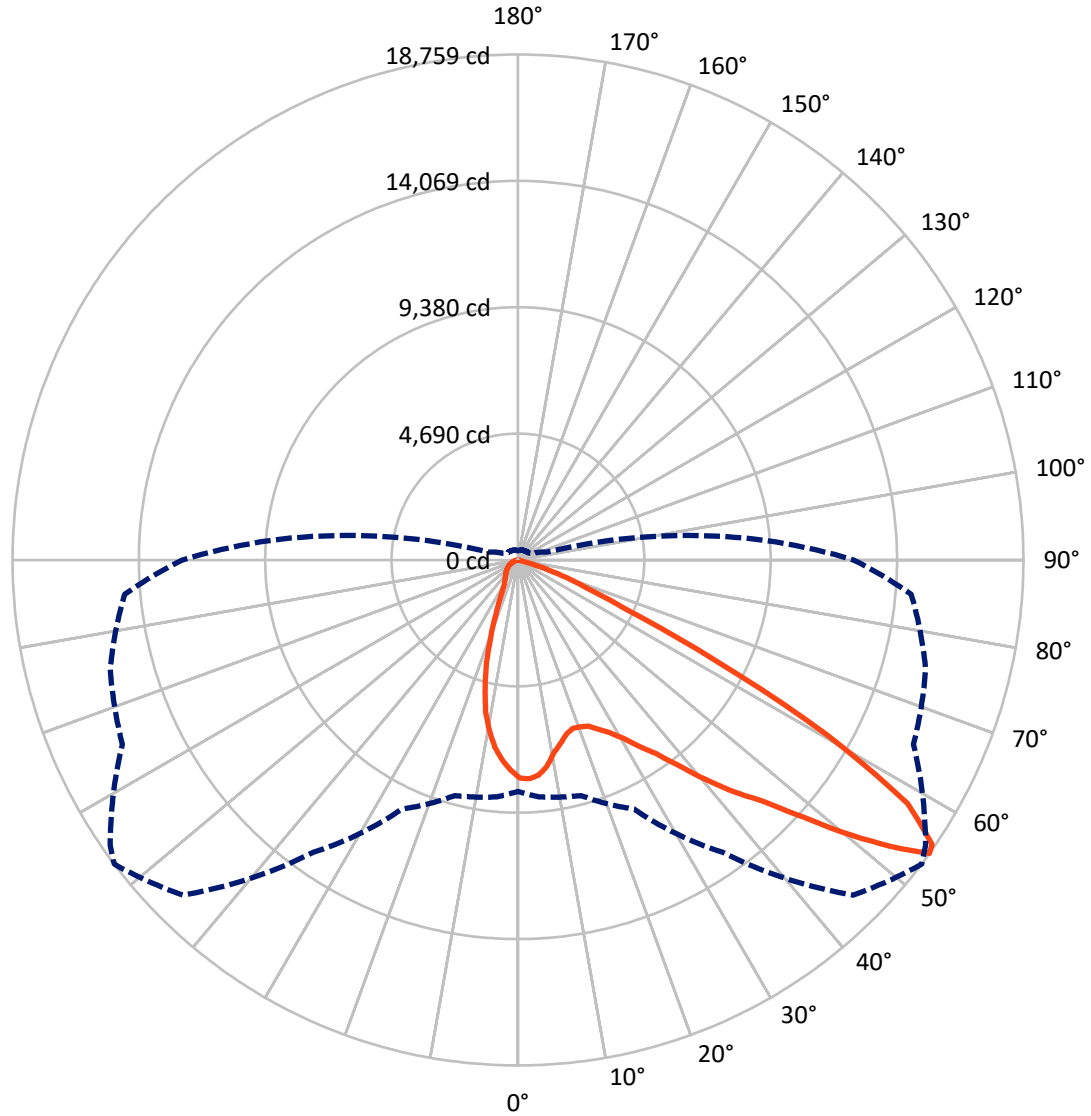
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3729.7 | 0.0 | 3729.7 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 18812.4 | 0.0 | 18812.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 22542.0 | 0.0 | 22542.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 694.7 | 3.1 |
| 10°-20° | 1592.7 | 7.1 |
| 20°-30° | 2263.5 | 10.0 |
| 30°-40° | 3493.2 | 15.5 |
| 40°-50° | 5477.1 | 24.3 |
| 50°-60° | 6362.4 | 28.2 |
| 60°-70° | 2404.1 | 10.7 |
| 70°-80° | 228.6 | 1.0 |
| 80°-90° | 25.7 | 0.1 |
| 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° | 22542.0 | 100.0 |
| 0°-180° | 22542.0 | 100.0 |

Coefficient of Utilization

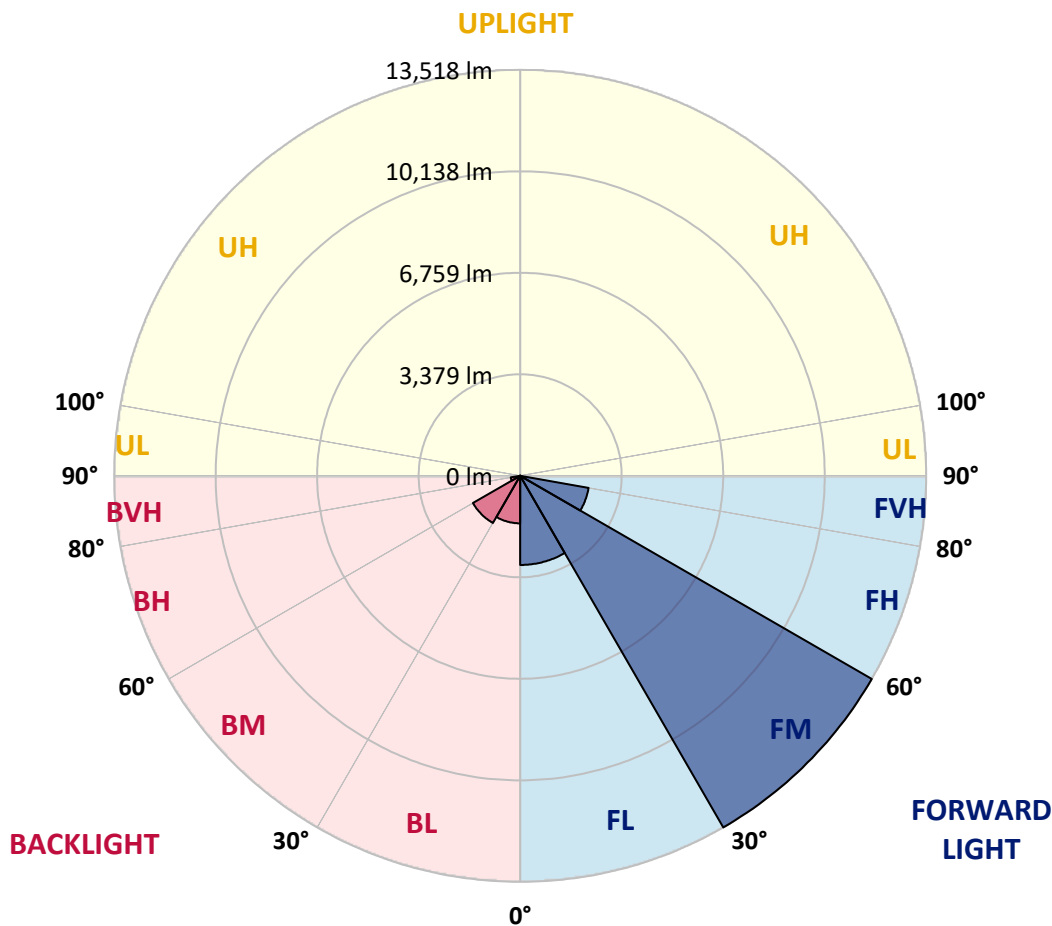


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2968.2 | 13.2 | | | |
| FM (30°-60°) | 13517.7 | 60.0 | | | |
| FH (60°-80°) | 2313.2 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 13.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1582.7 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1814.9 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 319.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 |
| 2.5° | 8054.7 | 7983.3 | 8054.7 | 8063.1 | 8113.5 | 8159.7 | 8130.3 | 8197.5 | 8159.7 | 8117.7 | 8105.1 |
| 5° | 7403.8 | 7500.4 | 7504.6 | 7655.8 | 7622.2 | 7899.3 | 8021.1 | 7987.5 | 8193.3 | 8180.7 | 8151.3 |
| 7.5° | 6820.0 | 6782.3 | 6832.6 | 7009.0 | 7231.6 | 7550.8 | 7727.1 | 7722.9 | 8016.9 | 8226.9 | 8205.9 |
| 10° | 6278.3 | 6274.1 | 6379.1 | 6517.7 | 6706.7 | 7042.6 | 7286.2 | 7408.0 | 7865.7 | 8184.9 | 8231.1 |
| 12.5° | 5912.9 | 5896.1 | 6009.5 | 6122.9 | 6421.1 | 6681.5 | 6992.2 | 7051.0 | 7576.0 | 8037.9 | 8113.5 |
| 15° | 5673.6 | 5711.4 | 5719.8 | 5938.1 | 6127.1 | 6471.5 | 6715.1 | 6836.8 | 7441.6 | 7920.3 | 8210.1 |
| 17.5° | 5631.6 | 5682.0 | 5686.2 | 5866.8 | 6068.3 | 6358.1 | 6572.3 | 6736.1 | 7328.2 | 7979.1 | 8214.3 |
| 20° | 5715.6 | 5686.2 | 5711.4 | 5824.8 | 6022.1 | 6299.3 | 6610.1 | 6664.7 | 7290.4 | 8008.5 | 8260.5 |
| 22.5° | 5954.9 | 5946.5 | 5883.6 | 5975.9 | 6114.5 | 6404.3 | 6698.3 | 6782.3 | 7399.6 | 8159.7 | 8298.3 |
| 25° | 6219.5 | 6265.7 | 6206.9 | 6194.3 | 6290.9 | 6576.5 | 6967.0 | 7076.2 | 7764.9 | 8432.7 | 8415.9 |
| 27.5° | 6715.1 | 6668.9 | 6668.9 | 6610.1 | 6584.9 | 6723.5 | 7256.8 | 7437.4 | 8172.3 | 8785.4 | 8550.3 |
| 30° | 7189.6 | 7240.0 | 7202.2 | 7223.2 | 7055.2 | 7042.6 | 7668.4 | 7890.9 | 8894.6 | 9323.0 | 8835.8 |
| 32.5° | 7941.3 | 7874.1 | 7937.1 | 7882.5 | 7660.0 | 7433.2 | 8226.9 | 8457.9 | 9768.1 | 9940.3 | 9264.2 |
| 35° | 8567.1 | 8537.7 | 8806.4 | 8798.0 | 8436.9 | 8214.3 | 8819.0 | 9163.4 | 10377.1 | 10679.4 | 9768.1 |
| 37.5° | 9457.4 | 9402.8 | 9709.3 | 9856.3 | 9532.9 | 9201.2 | 9667.3 | 10066.3 | 10944.0 | 11271.6 | 10284.7 |
| 40° | 10372.9 | 10511.4 | 10923.0 | 11166.6 | 10822.2 | 10381.3 | 10704.6 | 10826.4 | 11322.0 | 11657.9 | 10637.4 |
| 42.5° | 11531.9 | 11733.5 | 12153.5 | 12363.4 | 12334.0 | 11855.3 | 11758.7 | 11754.5 | 11594.9 | 11548.7 | 10897.8 |
| 45° | 12644.8 | 12569.2 | 13215.9 | 13673.7 | 14043.2 | 13904.7 | 12775.0 | 12649.0 | 12027.5 | 11712.5 | 10965.0 |
| 47.5° | 13132.0 | 13106.8 | 13547.7 | 14362.4 | 15622.3 | 15794.5 | 14253.2 | 13766.1 | 12758.2 | 12401.2 | 11330.3 |
| 50° | 12502.0 | 12632.2 | 13069.0 | 13971.9 | 15903.6 | 17218.1 | 16067.4 | 15412.3 | 13610.7 | 13241.1 | 12195.5 |
| 52.5° | 10444.2 | 10532.4 | 10948.2 | 12094.7 | 14946.2 | 18058.0 | 17806.0 | 17428.1 | 15177.1 | 14564.0 | 13703.1 |
| 54° | 8588.1 | 8823.2 | 9050.0 | 10200.7 | 13241.1 | 17591.9 | 18759.3 | 18469.6 | 16197.6 | 15664.3 | 14652.2 |
| 55° | 7479.4 | 7618.0 | 7781.7 | 8928.2 | 12061.1 | 16802.3 | 18650.1 | 18675.3 | 16882.1 | 16008.6 | 15290.5 |
| 57.5° | 5463.6 | 5560.2 | 5392.2 | 5900.3 | 8281.5 | 13644.3 | 17058.5 | 17738.8 | 17806.0 | 16525.2 | 15681.1 |
| 60° | 4174.3 | 4216.3 | 4027.4 | 4107.1 | 5148.6 | 9365.0 | 13194.9 | 14013.9 | 16063.2 | 14442.2 | 13283.1 |
| 62.5° | 3237.8 | 3246.2 | 3242.0 | 3380.6 | 3548.6 | 5509.8 | 8252.1 | 8978.6 | 11074.2 | 10255.3 | 9020.6 |
| 65° | 2385.3 | 2347.5 | 2414.7 | 2834.7 | 3027.9 | 3464.6 | 4346.5 | 4875.7 | 6017.9 | 5081.4 | 3632.6 |
| 67.5° | 1545.4 | 1558.0 | 1625.2 | 2108.2 | 2595.3 | 2658.3 | 2675.1 | 2633.1 | 2637.3 | 1453.0 | 911.3 |
| 70° | 928.1 | 949.1 | 928.1 | 1192.7 | 1856.2 | 1906.6 | 1742.8 | 1700.8 | 1327.1 | 344.4 | 340.2 |
| 72.5° | 550.1 | 520.7 | 466.1 | 512.3 | 772.7 | 923.9 | 831.5 | 827.3 | 520.7 | 201.6 | 201.6 |
| 75° | 231.0 | 210.0 | 172.2 | 155.4 | 205.8 | 197.4 | 197.4 | 176.4 | 138.6 | 134.4 | 126.0 |
| 77.5° | 46.2 | 46.2 | 33.6 | 37.8 | 50.4 | 58.8 | 71.4 | 71.4 | 84.0 | 84.0 | 79.8 |
| 80° | 0.0 | 4.2 | 12.6 | 25.2 | 37.8 | 54.6 | 63.0 | 63.0 | 71.4 | 71.4 | 58.8 |
| 82.5° | 0.0 | 4.2 | 12.6 | 25.2 | 33.6 | 50.4 | 63.0 | 63.0 | 71.4 | 75.6 | 63.0 |
| 85° | 0.0 | 4.2 | 12.6 | 21.0 | 33.6 | 42.0 | 42.0 | 37.8 | 29.4 | 25.2 | 16.8 |
| 87.5° | 0.0 | 0.0 | 4.2 | 8.4 | 4.2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 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° | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 | 8096.7 |
| 2.5° | 8134.5 | 8130.3 | 8029.5 | 7865.7 | 7827.9 | 7689.4 | 7672.6 | 7588.6 | 7634.8 | 7479.4 | 7462.6 |
| 5° | 8067.3 | 8016.9 | 7895.1 | 7790.1 | 7483.6 | 7265.2 | 7093.0 | 6883.0 | 6761.3 | 6782.3 | 6702.5 |
| 7.5° | 8163.9 | 8033.7 | 7819.5 | 7454.2 | 7080.4 | 6698.3 | 6492.5 | 6064.1 | 5908.7 | 5677.8 | 5644.2 |
| 10° | 8063.1 | 7966.5 | 7634.8 | 7030.0 | 6513.5 | 5963.3 | 5480.4 | 5005.8 | 4644.7 | 4489.3 | 4455.7 |
| 12.5° | 8054.7 | 7886.7 | 7332.4 | 6660.5 | 5912.9 | 5123.4 | 4422.1 | 3830.0 | 3473.0 | 3271.4 | 3225.2 |
| 15° | 7924.5 | 7722.9 | 6992.2 | 6089.3 | 5056.2 | 4073.6 | 3309.2 | 2738.1 | 2465.1 | 2347.5 | 2381.1 |
| 17.5° | 7937.1 | 7634.8 | 6652.1 | 5484.6 | 4212.1 | 2990.1 | 2259.4 | 1965.4 | 1894.0 | 1923.4 | 1923.4 |
| 20° | 7924.5 | 7437.4 | 6240.5 | 4787.5 | 3225.2 | 2074.6 | 1658.8 | 1553.8 | 1600.0 | 1692.4 | 1671.4 |
| 22.5° | 7857.3 | 7345.0 | 5862.6 | 4052.6 | 2372.7 | 1537.0 | 1331.3 | 1335.5 | 1406.8 | 1520.2 | 1545.4 |
| 25° | 7907.7 | 7139.2 | 5383.8 | 3309.2 | 1730.2 | 1226.3 | 1154.9 | 1184.3 | 1259.9 | 1343.9 | 1360.6 |
| 27.5° | 7869.9 | 6992.2 | 4884.1 | 2570.1 | 1264.1 | 1054.1 | 1049.9 | 1083.5 | 1117.1 | 1180.1 | 1180.1 |
| 30° | 7911.9 | 6857.8 | 4392.7 | 1910.8 | 1041.5 | 965.9 | 949.1 | 974.3 | 1007.9 | 1020.5 | 1016.3 |
| 32.5° | 8067.3 | 6757.1 | 3825.8 | 1427.8 | 919.7 | 881.9 | 881.9 | 881.9 | 877.7 | 894.5 | 898.7 |
| 35° | 8407.5 | 6773.9 | 3326.0 | 1104.5 | 839.9 | 810.5 | 797.9 | 781.1 | 772.7 | 781.1 | 785.3 |
| 37.5° | 8777.0 | 6765.5 | 2809.5 | 940.7 | 781.1 | 755.9 | 726.5 | 701.3 | 697.1 | 705.5 | 692.9 |
| 40° | 8940.8 | 6845.2 | 2330.7 | 844.1 | 726.5 | 697.1 | 650.9 | 629.9 | 634.1 | 642.5 | 634.1 |
| 42.5° | 9163.4 | 6870.4 | 2020.0 | 768.5 | 676.1 | 629.9 | 600.5 | 575.3 | 571.1 | 583.7 | 579.5 |
| 45° | 9159.2 | 6727.7 | 1692.4 | 726.5 | 629.9 | 579.5 | 541.7 | 520.7 | 520.7 | 529.1 | 533.3 |
| 47.5° | 9428.0 | 6706.7 | 1453.0 | 688.7 | 596.3 | 545.9 | 499.7 | 482.9 | 478.7 | 478.7 | 470.3 |
| 50° | 10053.7 | 7000.6 | 1268.3 | 646.7 | 554.3 | 508.1 | 470.3 | 449.4 | 432.6 | 424.2 | 420.0 |
| 52.5° | 11275.8 | 7916.1 | 1125.5 | 596.3 | 508.1 | 470.3 | 436.8 | 420.0 | 399.0 | 378.0 | 373.8 |
| 54° | 12460.0 | 8861.0 | 1117.1 | 554.3 | 470.3 | 445.2 | 415.8 | 407.4 | 382.2 | 352.8 | 344.4 |
| 55° | 12993.4 | 9411.2 | 1146.5 | 520.7 | 445.2 | 428.4 | 403.2 | 394.8 | 369.6 | 336.0 | 331.8 |
| 57.5° | 13434.3 | 9625.3 | 1129.7 | 432.6 | 403.2 | 399.0 | 378.0 | 365.4 | 336.0 | 289.8 | 281.4 |
| 60° | 10813.8 | 7277.8 | 810.5 | 382.2 | 369.6 | 361.2 | 344.4 | 336.0 | 298.2 | 247.8 | 243.6 |
| 62.5° | 6832.6 | 4186.9 | 516.5 | 336.0 | 323.4 | 310.8 | 289.8 | 281.4 | 247.8 | 197.4 | 184.8 |
| 65° | 2910.3 | 1734.4 | 348.6 | 298.2 | 277.2 | 256.2 | 239.4 | 226.8 | 197.4 | 147.0 | 142.8 |
| 67.5° | 755.9 | 617.3 | 289.8 | 260.4 | 231.0 | 201.6 | 189.0 | 168.0 | 134.4 | 100.8 | 96.6 |
| 70° | 340.2 | 310.8 | 243.6 | 218.4 | 184.8 | 155.4 | 138.6 | 117.6 | 88.2 | 67.2 | 63.0 |
| 72.5° | 201.6 | 197.4 | 184.8 | 163.8 | 138.6 | 117.6 | 100.8 | 79.8 | 58.8 | 37.8 | 37.8 |
| 75° | 126.0 | 121.8 | 126.0 | 113.4 | 96.6 | 88.2 | 75.6 | 54.6 | 33.6 | 16.8 | 16.8 |
| 77.5° | 75.6 | 75.6 | 75.6 | 71.4 | 67.2 | 67.2 | 54.6 | 33.6 | 16.8 | 4.2 | 4.2 |
| 80° | 58.8 | 58.8 | 63.0 | 58.8 | 58.8 | 58.8 | 46.2 | 25.2 | 8.4 | 0.0 | 0.0 |
| 82.5° | 58.8 | 63.0 | 71.4 | 67.2 | 58.8 | 50.4 | 42.0 | 25.2 | 8.4 | 0.0 | 0.0 |
| 85° | 16.8 | 12.6 | 21.0 | 29.4 | 42.0 | 37.8 | 29.4 | 21.0 | 8.4 | 0.0 | 0.0 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.4 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 0.0 | 0.0 |
| 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)