

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: P649723

Luminaire Tested: **GLAN-SA1A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3593.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

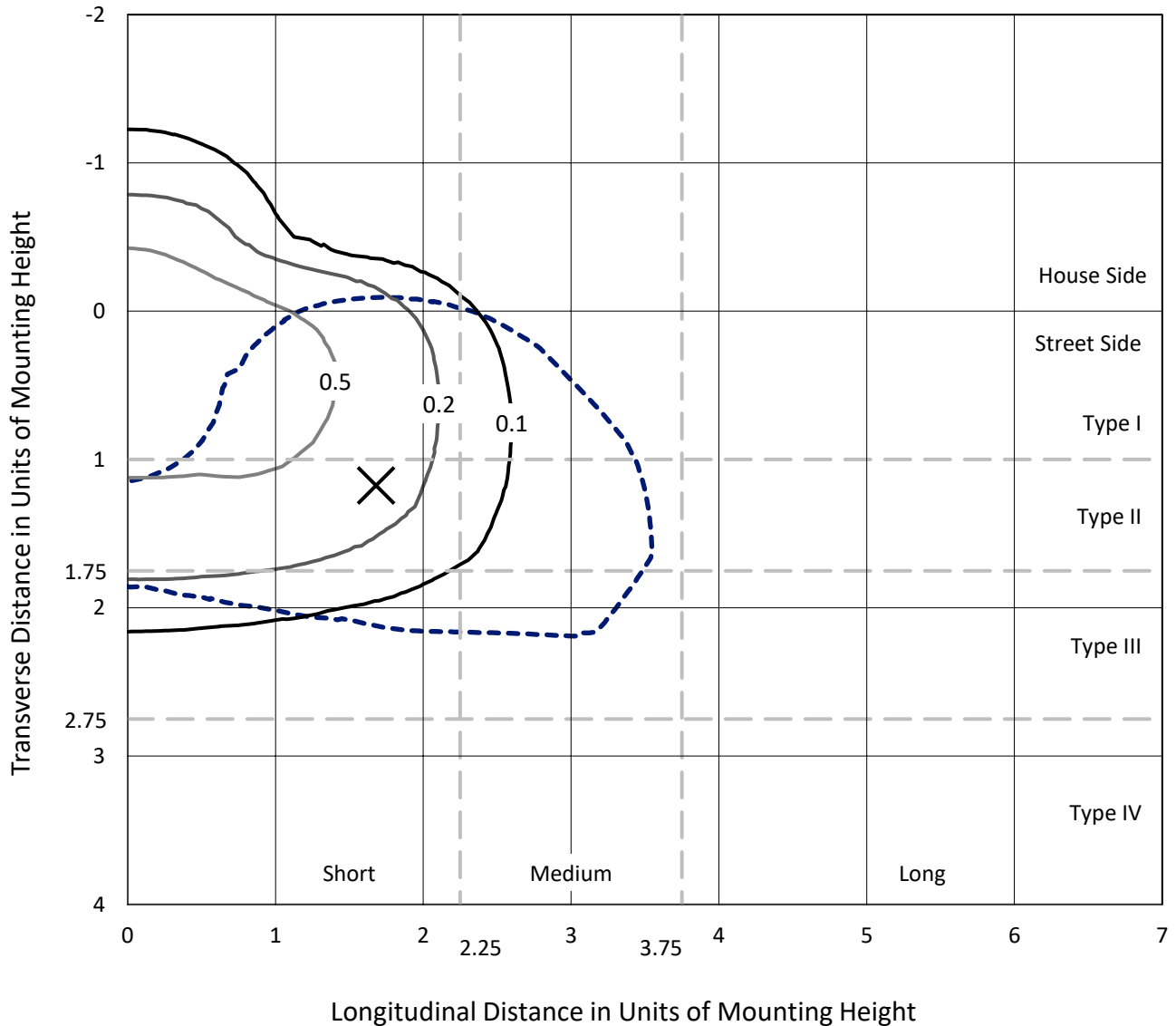
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

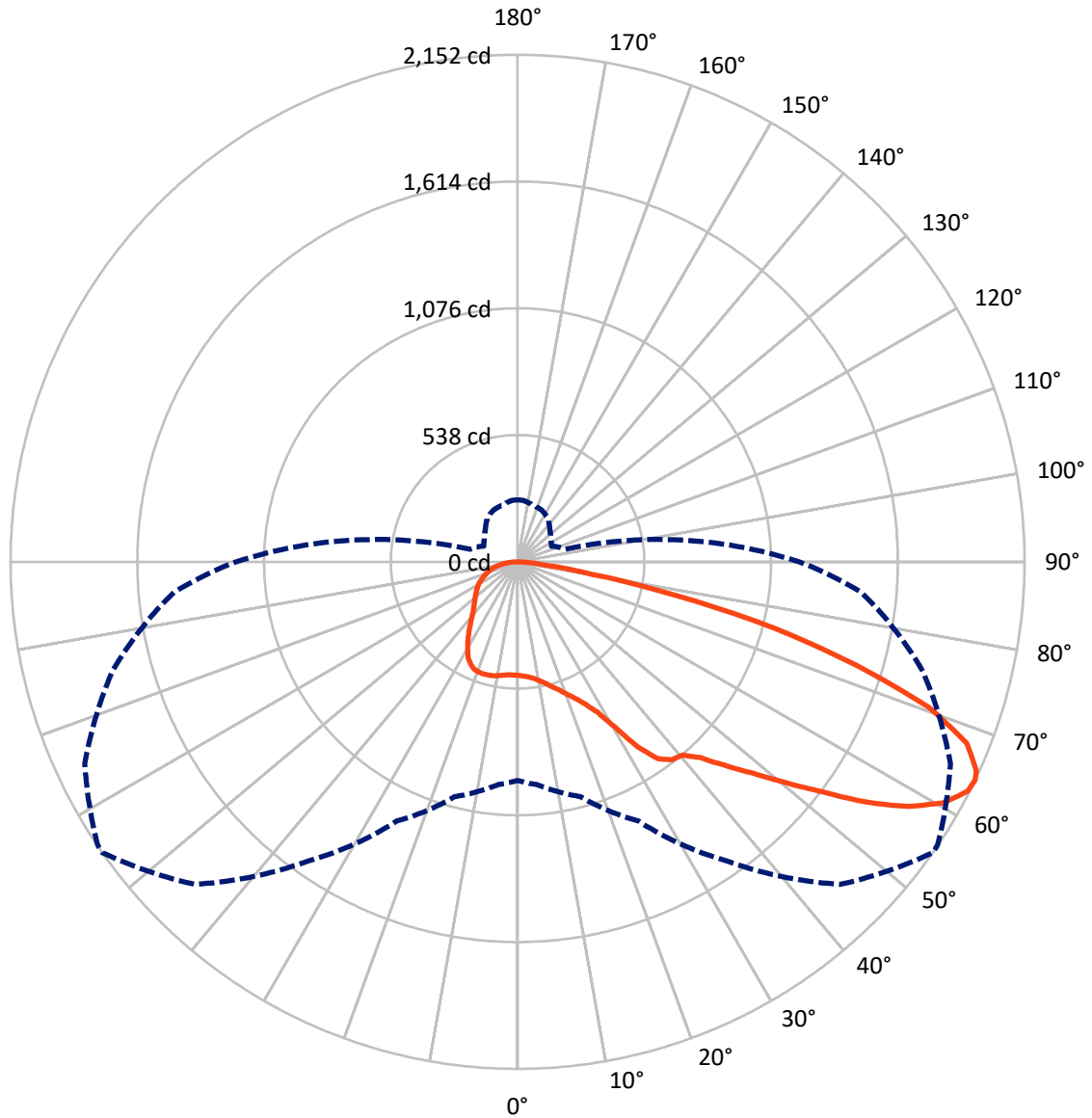
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 872.8 | 0.0 | 872.8 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 2720.3 | 0.0 | 2720.3 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 3593.2 | 0.0 | 3593.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.9 | 1.3 |
| 10°-20° | 148.0 | 4.1 |
| 20°-30° | 263.4 | 7.3 |
| 30°-40° | 405.3 | 11.3 |
| 40°-50° | 574.6 | 16.0 |
| 50°-60° | 831.7 | 23.1 |
| 60°-70° | 860.7 | 24.0 |
| 70°-80° | 403.1 | 11.2 |
| 80°-90° | 59.7 | 1.7 |
| 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° | 3593.2 | 100.0 |
| 0°-180° | 3593.2 | 100.0 |

Coefficient of Utilization



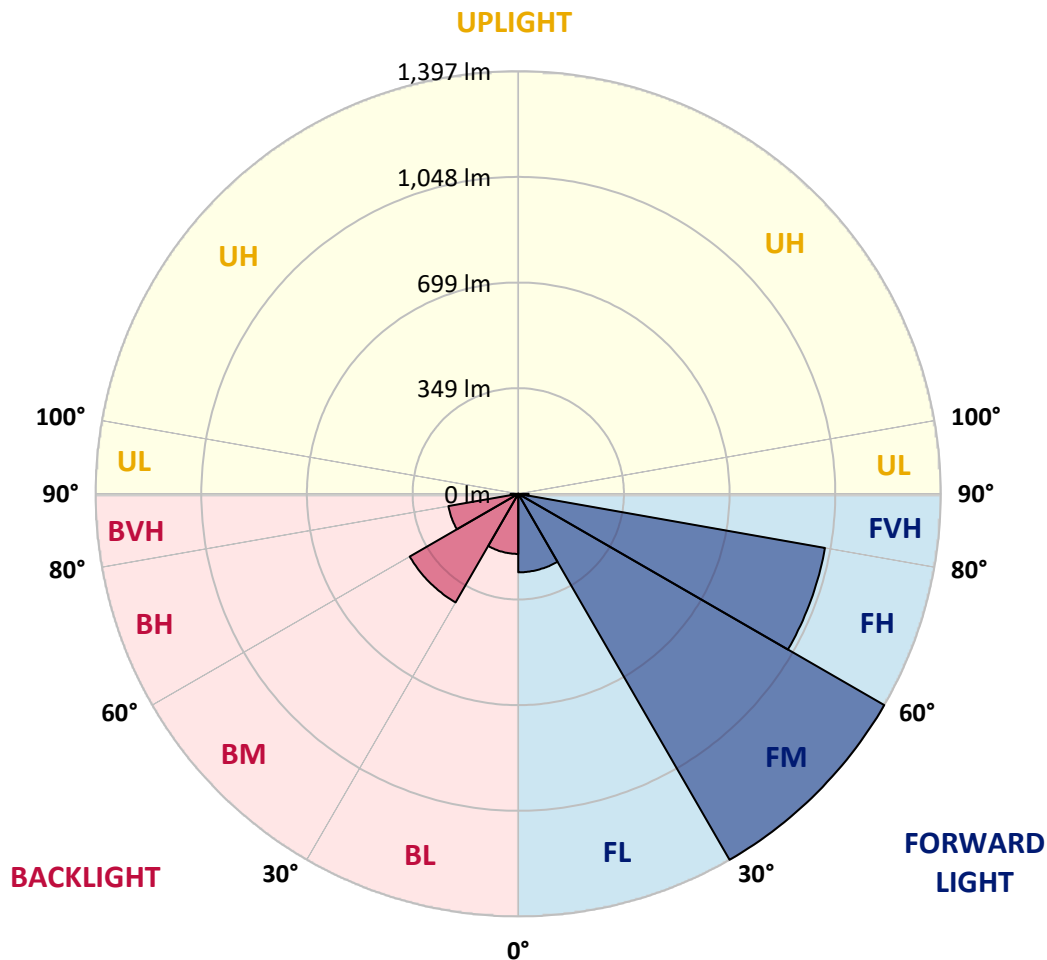
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 259.5 | 7.2 | | | |
| FM (30°-60°) | 1397.1 | 38.9 | | | |
| FH (60°-80°) | 1029.6 | 28.7 | | | G1/1800 |
| FVH (80°-90°) | 34.2 | 1.0 | | | G1/100 |
| BL (0°-30°) | 198.8 | 5.5 | B1/500 | | |
| BM (30°-60°) | 414.4 | 11.5 | B1/1000 | | |
| BH (60°-80°) | 234.2 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.5 | 0.7 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 |
| 2.5° | 487.5 | 487.3 | 487.9 | 487.3 | 487.7 | 486.3 | 485.7 | 486.1 | 485.5 | 484.5 | 482.7 |
| 5° | 493.5 | 493.3 | 493.5 | 492.7 | 493.1 | 492.4 | 490.9 | 491.3 | 490.3 | 488.1 | 485.5 |
| 7.5° | 503.7 | 502.9 | 502.9 | 502.8 | 501.9 | 500.7 | 499.7 | 499.3 | 498.3 | 495.5 | 491.5 |
| 10° | 516.9 | 516.9 | 517.2 | 515.5 | 516.5 | 514.4 | 513.3 | 513.2 | 509.7 | 506.1 | 500.5 |
| 12.5° | 534.4 | 535.3 | 534.8 | 534.0 | 533.5 | 532.8 | 529.4 | 530.2 | 526.3 | 520.1 | 513.3 |
| 15° | 556.0 | 557.6 | 556.6 | 556.2 | 555.2 | 552.2 | 550.8 | 550.2 | 545.2 | 536.2 | 527.2 |
| 17.5° | 584.7 | 582.6 | 581.8 | 580.8 | 576.6 | 574.4 | 572.1 | 571.6 | 567.2 | 556.6 | 542.6 |
| 20° | 609.6 | 612.5 | 610.9 | 609.9 | 605.7 | 601.5 | 599.7 | 599.1 | 595.2 | 583.6 | 561.2 |
| 22.5° | 639.6 | 640.1 | 640.7 | 638.3 | 636.3 | 633.1 | 629.9 | 628.9 | 627.5 | 615.5 | 588.0 |
| 25° | 671.3 | 673.8 | 671.7 | 669.4 | 667.0 | 666.8 | 669.8 | 669.4 | 668.8 | 657.2 | 623.7 |
| 27.5° | 723.3 | 725.4 | 726.1 | 723.4 | 714.3 | 715.0 | 721.8 | 724.0 | 733.3 | 714.0 | 669.5 |
| 30° | 752.5 | 754.7 | 759.7 | 769.5 | 784.1 | 796.9 | 813.4 | 818.4 | 827.2 | 790.9 | 724.0 |
| 32.5° | 770.6 | 771.3 | 780.3 | 798.6 | 842.4 | 890.3 | 935.0 | 936.8 | 942.3 | 891.5 | 773.9 |
| 35° | 799.0 | 799.5 | 806.8 | 826.8 | 878.3 | 958.0 | 1027.1 | 1029.3 | 1024.7 | 922.8 | 797.2 |
| 37.5° | 834.0 | 835.6 | 840.2 | 856.8 | 918.3 | 1014.7 | 1065.3 | 1063.7 | 1022.9 | 947.6 | 838.2 |
| 40° | 885.1 | 885.1 | 879.7 | 902.1 | 960.6 | 1047.1 | 1078.7 | 1075.9 | 1065.1 | 1019.5 | 900.7 |
| 42.5° | 930.1 | 929.3 | 942.2 | 957.4 | 1013.4 | 1097.2 | 1135.0 | 1139.7 | 1157.5 | 1109.8 | 971.8 |
| 45° | 988.9 | 992.5 | 999.7 | 1027.3 | 1103.4 | 1182.7 | 1231.6 | 1236.0 | 1261.3 | 1216.2 | 1054.9 |
| 47.5° | 1048.1 | 1049.3 | 1071.9 | 1108.8 | 1214.7 | 1298.7 | 1338.8 | 1346.0 | 1369.0 | 1340.6 | 1144.4 |
| 50° | 1090.2 | 1101.6 | 1137.9 | 1196.0 | 1329.5 | 1440.1 | 1471.3 | 1479.9 | 1520.6 | 1476.0 | 1248.8 |
| 52.5° | 1134.6 | 1145.8 | 1190.2 | 1278.6 | 1461.3 | 1584.7 | 1623.2 | 1629.0 | 1671.2 | 1612.9 | 1355.5 |
| 55° | 1172.7 | 1183.1 | 1233.4 | 1351.9 | 1566.2 | 1732.3 | 1802.0 | 1795.2 | 1815.5 | 1718.5 | 1437.9 |
| 57.5° | 1178.9 | 1187.3 | 1250.6 | 1398.8 | 1645.2 | 1858.9 | 1958.8 | 1962.8 | 1939.4 | 1797.4 | 1505.8 |
| 60° | 1130.8 | 1148.0 | 1220.8 | 1393.8 | 1680.6 | 1947.0 | 2075.8 | 2078.6 | 2012.1 | 1837.9 | 1532.8 |
| 62.5° | 1045.7 | 1043.9 | 1131.8 | 1313.3 | 1631.0 | 1967.1 | 2144.7 | 2141.7 | 2040.6 | 1818.4 | 1506.6 |
| 64° | 928.2 | 949.8 | 1031.9 | 1214.4 | 1550.8 | 1936.2 | 2151.9 | 2150.3 | 2027.0 | 1778.0 | 1461.9 |
| 65° | 856.4 | 855.3 | 936.4 | 1133.5 | 1471.1 | 1889.8 | 2139.1 | 2136.9 | 1998.5 | 1741.7 | 1427.3 |
| 67.5° | 618.3 | 621.1 | 701.2 | 874.7 | 1196.0 | 1708.0 | 2055.6 | 2047.4 | 1886.3 | 1621.5 | 1295.5 |
| 70° | 374.5 | 376.2 | 439.0 | 580.2 | 858.4 | 1380.8 | 1852.9 | 1853.3 | 1714.7 | 1442.1 | 1102.6 |
| 72.5° | 197.3 | 201.5 | 226.8 | 329.5 | 521.3 | 968.8 | 1503.2 | 1538.8 | 1472.1 | 1230.8 | 871.1 |
| 75° | 109.8 | 110.3 | 128.2 | 162.5 | 266.0 | 542.1 | 1129.9 | 1140.0 | 1165.5 | 990.7 | 644.1 |
| 77.5° | 83.7 | 85.0 | 90.5 | 104.9 | 144.8 | 251.3 | 683.8 | 735.1 | 821.4 | 698.4 | 367.5 |
| 80° | 67.9 | 69.1 | 73.9 | 82.5 | 96.3 | 119.2 | 317.7 | 345.3 | 439.7 | 310.1 | 143.4 |
| 82.5° | 52.9 | 52.1 | 58.3 | 63.9 | 70.1 | 70.5 | 130.4 | 144.2 | 179.1 | 133.4 | 62.1 |
| 85° | 39.2 | 39.2 | 44.2 | 43.1 | 45.3 | 41.3 | 57.5 | 63.5 | 71.7 | 56.7 | 28.8 |
| 87.5° | 15.7 | 17.2 | 29.0 | 26.1 | 20.2 | 16.2 | 21.2 | 22.4 | 24.8 | 22.2 | 12.0 |
| 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° | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 | 482.1 |
| 2.5° | 482.9 | 483.5 | 482.1 | 481.1 | 480.7 | 480.1 | 479.5 | 479.7 | 480.5 | 481.3 | 481.1 |
| 5° | 485.3 | 485.5 | 483.1 | 481.9 | 481.1 | 480.3 | 480.3 | 480.9 | 482.5 | 483.7 | 483.7 |
| 7.5° | 491.3 | 491.3 | 487.9 | 485.7 | 484.5 | 483.1 | 482.7 | 482.9 | 484.1 | 485.7 | 485.9 |
| 10° | 500.7 | 499.9 | 495.5 | 492.1 | 489.9 | 486.5 | 483.5 | 481.9 | 482.5 | 483.5 | 483.5 |
| 12.5° | 512.2 | 510.0 | 504.3 | 499.7 | 494.3 | 487.9 | 481.7 | 478.5 | 478.3 | 479.3 | 478.9 |
| 15° | 524.4 | 521.9 | 514.1 | 505.7 | 496.3 | 486.9 | 479.5 | 474.9 | 471.3 | 470.3 | 472.5 |
| 17.5° | 538.5 | 533.5 | 522.7 | 511.1 | 497.1 | 484.9 | 473.3 | 463.8 | 457.4 | 455.6 | 456.3 |
| 20° | 555.8 | 549.2 | 534.6 | 516.3 | 496.5 | 477.7 | 459.7 | 447.0 | 436.6 | 433.4 | 433.9 |
| 22.5° | 579.7 | 568.2 | 546.8 | 519.0 | 491.5 | 464.1 | 439.0 | 422.6 | 410.0 | 405.0 | 408.0 |
| 25° | 606.7 | 594.3 | 558.4 | 518.3 | 478.5 | 442.2 | 414.6 | 393.1 | 381.8 | 374.4 | 375.9 |
| 27.5° | 643.9 | 621.9 | 570.8 | 512.9 | 459.9 | 415.6 | 383.6 | 363.3 | 352.9 | 349.1 | 350.9 |
| 30° | 691.6 | 657.7 | 584.3 | 498.3 | 430.4 | 381.9 | 352.3 | 339.1 | 332.9 | 328.1 | 329.6 |
| 32.5° | 726.1 | 683.0 | 587.2 | 473.7 | 398.5 | 351.3 | 331.1 | 321.3 | 314.5 | 309.8 | 310.9 |
| 35° | 750.7 | 704.4 | 585.8 | 443.4 | 365.3 | 326.0 | 314.2 | 306.2 | 295.2 | 285.2 | 283.4 |
| 37.5° | 783.7 | 731.2 | 575.7 | 410.4 | 332.5 | 309.1 | 300.7 | 285.8 | 270.0 | 256.6 | 256.0 |
| 40° | 834.4 | 762.7 | 553.8 | 371.5 | 304.4 | 296.4 | 286.2 | 267.0 | 249.9 | 239.1 | 238.3 |
| 42.5° | 886.7 | 791.8 | 524.1 | 330.7 | 281.4 | 283.2 | 270.8 | 251.7 | 241.3 | 234.4 | 233.6 |
| 45° | 950.6 | 823.2 | 492.1 | 295.2 | 264.4 | 270.8 | 257.4 | 246.3 | 240.1 | 235.5 | 234.4 |
| 47.5° | 1019.7 | 855.4 | 456.1 | 263.4 | 249.9 | 259.4 | 251.7 | 246.7 | 243.4 | 240.1 | 238.7 |
| 50° | 1094.2 | 891.5 | 422.2 | 237.7 | 236.9 | 247.6 | 251.2 | 249.4 | 247.3 | 246.3 | 245.2 |
| 52.5° | 1175.9 | 928.3 | 393.8 | 219.7 | 225.5 | 239.1 | 251.3 | 252.8 | 252.8 | 252.1 | 251.3 |
| 55° | 1231.2 | 954.0 | 365.0 | 205.1 | 213.9 | 232.3 | 251.0 | 256.4 | 258.4 | 257.6 | 256.7 |
| 57.5° | 1272.1 | 968.0 | 328.7 | 192.5 | 204.1 | 225.7 | 248.8 | 256.7 | 258.8 | 259.8 | 259.4 |
| 60° | 1280.4 | 954.9 | 281.2 | 179.2 | 193.5 | 216.1 | 240.8 | 250.8 | 253.4 | 259.6 | 260.2 |
| 62.5° | 1242.6 | 914.9 | 234.0 | 166.2 | 180.5 | 201.5 | 230.0 | 244.0 | 249.2 | 258.8 | 259.8 |
| 64° | 1196.1 | 870.1 | 207.7 | 158.0 | 172.0 | 193.2 | 224.5 | 242.2 | 249.0 | 261.8 | 262.6 |
| 65° | 1162.1 | 837.4 | 191.3 | 152.8 | 166.6 | 187.8 | 221.5 | 242.7 | 250.8 | 266.4 | 267.6 |
| 67.5° | 1036.7 | 725.1 | 158.2 | 140.6 | 153.9 | 178.7 | 222.1 | 247.7 | 250.3 | 268.2 | 268.0 |
| 70° | 857.9 | 577.2 | 132.6 | 129.4 | 141.4 | 171.2 | 219.7 | 239.8 | 239.9 | 251.7 | 249.0 |
| 72.5° | 642.3 | 426.6 | 114.9 | 117.8 | 127.6 | 153.6 | 207.5 | 228.9 | 225.5 | 227.1 | 224.3 |
| 75° | 441.2 | 282.2 | 99.0 | 105.3 | 113.1 | 135.8 | 190.3 | 207.9 | 202.5 | 200.5 | 198.5 |
| 77.5° | 235.5 | 156.1 | 82.3 | 93.1 | 98.3 | 117.4 | 166.1 | 183.1 | 177.4 | 169.7 | 167.0 |
| 80° | 95.4 | 73.5 | 66.3 | 77.1 | 80.1 | 94.5 | 138.2 | 148.8 | 144.6 | 131.0 | 126.6 |
| 82.5° | 47.8 | 44.1 | 52.1 | 60.7 | 60.9 | 67.5 | 102.7 | 112.8 | 103.4 | 86.8 | 82.9 |
| 85° | 25.1 | 25.8 | 35.9 | 42.7 | 37.7 | 36.5 | 61.7 | 68.3 | 62.7 | 54.5 | 49.1 |
| 87.5° | 9.0 | 10.4 | 18.8 | 18.6 | 13.2 | 7.0 | 13.6 | 6.6 | 3.6 | 2.2 | 2.8 |
| 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)