

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: P652190

Luminaire Tested: **GALN-SA1B-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4869.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

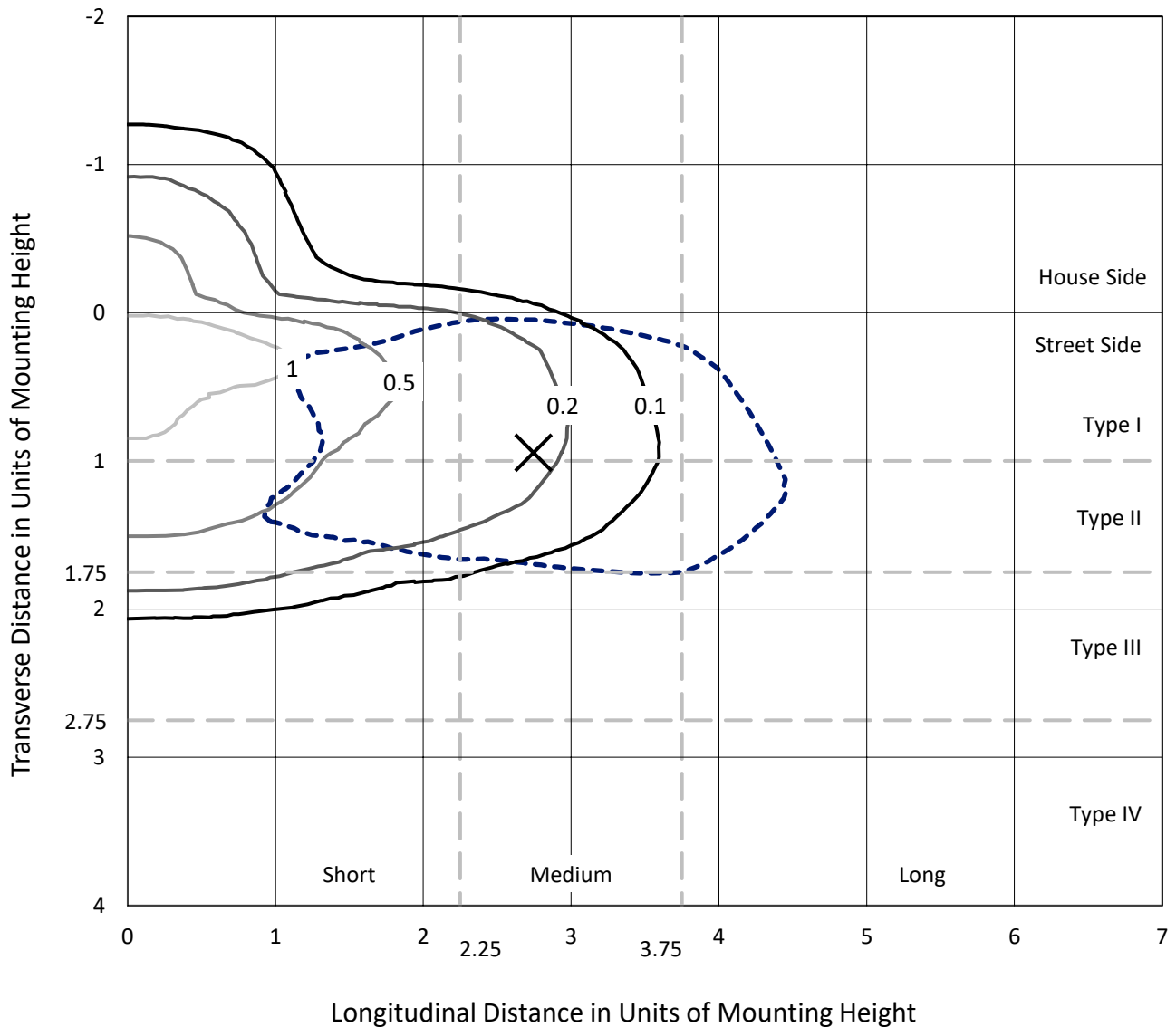
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

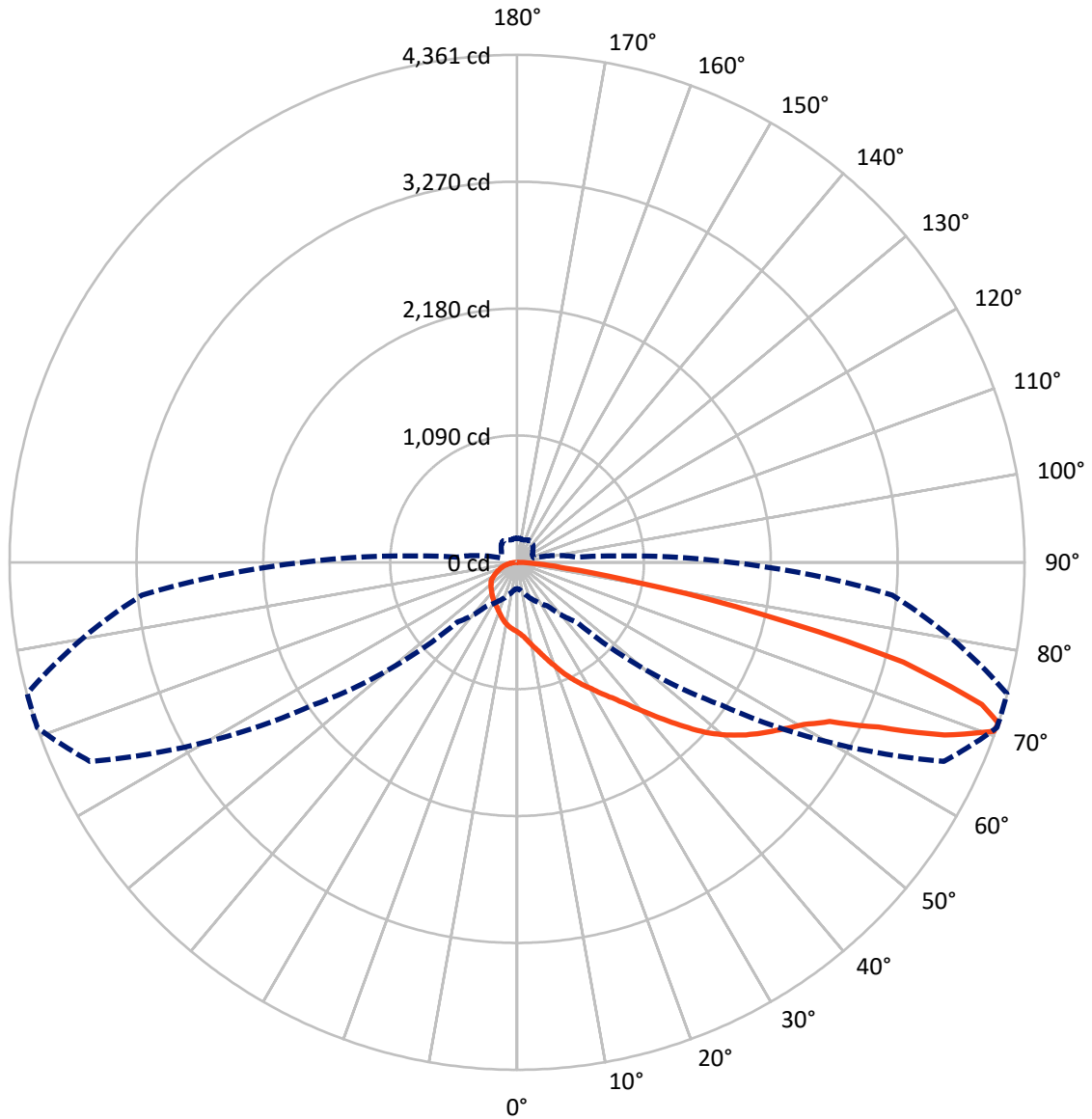
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 875.7 | 0.0 | 875.7 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 3993.6 | 0.0 | 3993.6 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 4869.4 | 0.0 | 4869.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.0 | 1.2 |
| 10°-20° | 195.0 | 4.0 |
| 20°-30° | 340.7 | 7.0 |
| 30°-40° | 506.7 | 10.4 |
| 40°-50° | 746.6 | 15.3 |
| 50°-60° | 1045.3 | 21.5 |
| 60°-70° | 1169.1 | 24.0 |
| 70°-80° | 714.1 | 14.7 |
| 80°-90° | 91.9 | 1.9 |
| 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° | 4869.4 | 100.0 |
| 0°-180° | 4869.4 | 100.0 |

Coefficient of Utilization

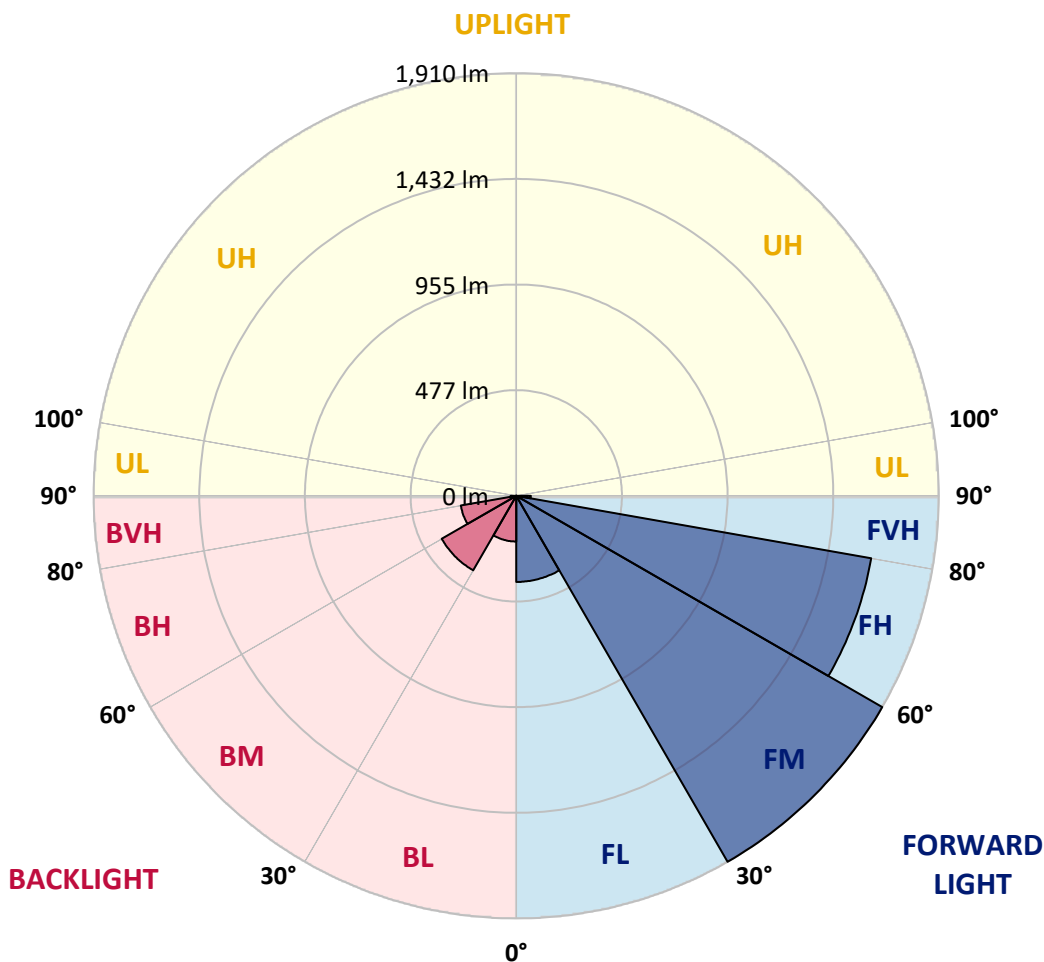


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 389.1 | 8.0 | | | |
| FM (30°-60°) | 1909.7 | 39.2 | | | |
| FH (60°-80°) | 1628.8 | 33.4 | | | G1/1800 |
| FVH (80°-90°) | 66.1 | 1.4 | | | G1/100 |
| BL (0°-30°) | 206.6 | 4.2 | B1/500 | | |
| BM (30°-60°) | 389.0 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 254.4 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.8 | 0.5 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 |
| 2.5° | 663.5 | 660.3 | 660.5 | 656.0 | 650.1 | 643.6 | 634.5 | 626.5 | 620.1 | 616.4 | 605.4 |
| 5° | 735.2 | 732.0 | 728.0 | 718.0 | 713.8 | 697.9 | 677.9 | 659.7 | 645.8 | 638.1 | 616.1 |
| 7.5° | 793.2 | 792.5 | 791.4 | 785.7 | 774.8 | 752.9 | 735.7 | 704.2 | 683.6 | 668.8 | 631.3 |
| 10° | 829.1 | 830.5 | 831.2 | 832.3 | 827.8 | 816.3 | 792.7 | 752.9 | 726.6 | 707.9 | 651.2 |
| 12.5° | 847.3 | 848.7 | 853.2 | 863.1 | 869.3 | 867.9 | 848.7 | 809.5 | 773.5 | 748.8 | 672.3 |
| 15° | 858.6 | 860.7 | 868.8 | 881.9 | 902.5 | 915.6 | 906.2 | 870.1 | 830.5 | 801.3 | 697.4 |
| 17.5° | 870.9 | 873.3 | 882.1 | 900.9 | 927.9 | 956.2 | 966.4 | 935.4 | 892.3 | 857.5 | 725.5 |
| 20° | 877.8 | 881.0 | 893.6 | 918.2 | 949.8 | 991.0 | 1024.8 | 1008.4 | 961.3 | 922.8 | 757.9 |
| 22.5° | 889.1 | 891.7 | 902.5 | 928.7 | 966.4 | 1018.0 | 1083.1 | 1079.6 | 1038.1 | 988.3 | 793.6 |
| 25° | 919.5 | 923.8 | 929.2 | 945.0 | 981.4 | 1045.6 | 1131.6 | 1155.6 | 1112.6 | 1056.9 | 826.2 |
| 27.5° | 977.2 | 980.6 | 980.4 | 982.5 | 1003.1 | 1069.4 | 1173.5 | 1230.8 | 1186.4 | 1126.2 | 857.7 |
| 30° | 1042.7 | 1044.0 | 1045.1 | 1040.3 | 1044.9 | 1093.8 | 1212.1 | 1305.2 | 1260.8 | 1197.4 | 885.3 |
| 32.5° | 1122.5 | 1125.1 | 1116.0 | 1103.7 | 1099.9 | 1130.0 | 1243.9 | 1379.7 | 1348.9 | 1269.7 | 912.7 |
| 35° | 1216.7 | 1223.6 | 1205.2 | 1183.5 | 1168.2 | 1181.9 | 1286.8 | 1455.7 | 1439.0 | 1362.0 | 948.7 |
| 37.5° | 1324.2 | 1332.8 | 1315.7 | 1273.1 | 1251.4 | 1255.2 | 1342.7 | 1549.6 | 1553.1 | 1467.1 | 1002.6 |
| 40° | 1412.3 | 1423.6 | 1424.1 | 1363.8 | 1331.0 | 1335.3 | 1413.6 | 1650.7 | 1690.7 | 1597.2 | 1066.0 |
| 42.5° | 1470.4 | 1481.3 | 1492.9 | 1457.5 | 1423.0 | 1447.4 | 1496.3 | 1760.5 | 1845.3 | 1755.2 | 1154.5 |
| 45° | 1534.1 | 1544.0 | 1550.4 | 1534.3 | 1515.1 | 1578.2 | 1596.1 | 1877.2 | 2010.2 | 1931.5 | 1251.4 |
| 47.5° | 1607.9 | 1618.9 | 1625.1 | 1609.8 | 1602.6 | 1693.0 | 1703.8 | 1986.1 | 2186.3 | 2102.8 | 1358.5 |
| 50° | 1706.4 | 1714.7 | 1711.5 | 1701.8 | 1700.2 | 1781.1 | 1807.1 | 2088.0 | 2331.6 | 2287.2 | 1469.6 |
| 52.5° | 1829.0 | 1838.9 | 1842.4 | 1828.8 | 1822.5 | 1844.0 | 1890.3 | 2181.0 | 2463.8 | 2445.6 | 1588.1 |
| 55° | 1903.1 | 1918.9 | 1971.9 | 1993.3 | 2008.1 | 1925.3 | 1980.0 | 2283.4 | 2582.4 | 2612.7 | 1715.6 |
| 57.5° | 1808.2 | 1828.4 | 1947.0 | 2054.1 | 2192.4 | 2128.7 | 2107.0 | 2390.5 | 2701.0 | 2774.5 | 1868.0 |
| 60° | 1576.4 | 1580.9 | 1733.7 | 1930.9 | 2209.3 | 2390.2 | 2372.3 | 2560.7 | 2829.4 | 2937.8 | 2069.0 |
| 62.5° | 1093.6 | 1103.1 | 1283.9 | 1598.6 | 2001.1 | 2484.4 | 2823.5 | 2854.5 | 3013.6 | 3182.2 | 2363.7 |
| 65° | 563.9 | 551.4 | 715.9 | 1004.7 | 1508.7 | 2260.7 | 3189.1 | 3394.9 | 3412.9 | 3564.3 | 2778.6 |
| 67.5° | 347.1 | 352.7 | 429.8 | 586.7 | 892.0 | 1643.0 | 3150.8 | 4055.1 | 3960.7 | 4033.4 | 3163.7 |
| 70° | 260.7 | 267.6 | 320.6 | 401.4 | 543.8 | 939.4 | 2533.9 | 4215.2 | 4347.1 | 4328.4 | 3280.9 |
| 71° | 226.6 | 233.9 | 289.1 | 365.3 | 456.8 | 725.0 | 2134.9 | 4047.6 | 4360.5 | 4357.3 | 3236.8 |
| 72.5° | 193.3 | 197.8 | 240.9 | 309.4 | 385.1 | 508.2 | 1604.0 | 3630.2 | 4174.6 | 4281.3 | 3079.1 |
| 75° | 151.7 | 155.2 | 174.5 | 236.1 | 303.3 | 312.1 | 860.7 | 2721.6 | 3428.6 | 3632.0 | 2563.4 |
| 77.5° | 123.6 | 126.1 | 136.0 | 175.3 | 233.9 | 221.1 | 451.5 | 1771.5 | 2148.0 | 2352.8 | 1510.0 |
| 80° | 98.2 | 100.9 | 106.8 | 118.8 | 175.3 | 157.6 | 215.5 | 897.6 | 1037.6 | 1035.4 | 602.7 |
| 82.5° | 76.3 | 77.1 | 84.0 | 87.2 | 119.9 | 111.9 | 116.6 | 380.0 | 421.0 | 434.9 | 217.6 |
| 85° | 48.2 | 50.5 | 74.4 | 66.9 | 71.7 | 65.6 | 57.5 | 151.0 | 186.0 | 183.3 | 87.0 |
| 87.5° | 14.7 | 15.6 | 25.1 | 28.3 | 31.9 | 28.7 | 21.1 | 44.4 | 54.3 | 58.9 | 21.7 |
| 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° | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 |
| 2.5° | 601.1 | 598.1 | 587.7 | 579.2 | 571.1 | 562.3 | 554.8 | 552.6 | 550.8 | 550.0 | 549.7 |
| 5° | 606.7 | 597.9 | 577.3 | 560.4 | 547.1 | 534.7 | 527.0 | 523.5 | 520.0 | 520.0 | 521.1 |
| 7.5° | 614.8 | 598.7 | 566.8 | 541.7 | 524.8 | 513.3 | 507.7 | 507.1 | 508.0 | 508.8 | 509.1 |
| 10° | 623.6 | 598.1 | 551.6 | 520.2 | 505.3 | 500.0 | 500.2 | 504.8 | 509.1 | 512.3 | 512.8 |
| 12.5° | 632.2 | 594.9 | 533.7 | 500.2 | 490.6 | 491.6 | 499.1 | 509.3 | 517.6 | 522.2 | 522.4 |
| 15° | 641.8 | 589.9 | 512.0 | 481.2 | 478.0 | 486.3 | 500.2 | 515.7 | 528.3 | 535.8 | 536.6 |
| 17.5° | 649.8 | 581.3 | 489.2 | 462.7 | 466.8 | 482.0 | 501.2 | 521.3 | 536.6 | 546.0 | 547.6 |
| 20° | 658.9 | 570.3 | 465.7 | 445.1 | 456.6 | 477.2 | 499.1 | 520.8 | 536.6 | 545.7 | 547.8 |
| 22.5° | 666.2 | 554.8 | 443.2 | 430.6 | 447.5 | 471.3 | 491.9 | 509.3 | 522.2 | 527.0 | 530.2 |
| 25° | 669.1 | 535.3 | 422.0 | 418.8 | 440.3 | 461.6 | 475.6 | 485.5 | 489.5 | 489.0 | 490.3 |
| 27.5° | 667.5 | 512.8 | 403.8 | 409.5 | 431.2 | 446.7 | 453.6 | 452.8 | 445.6 | 438.9 | 442.1 |
| 30° | 660.8 | 486.0 | 388.6 | 399.8 | 419.4 | 428.0 | 426.9 | 416.5 | 402.8 | 390.2 | 391.0 |
| 32.5° | 648.7 | 457.1 | 374.4 | 388.9 | 402.8 | 406.5 | 399.3 | 385.7 | 366.1 | 349.8 | 347.4 |
| 35° | 638.6 | 429.6 | 361.8 | 376.3 | 386.2 | 384.3 | 377.4 | 359.7 | 342.0 | 327.6 | 325.1 |
| 37.5° | 637.0 | 406.0 | 349.8 | 362.1 | 367.7 | 365.1 | 356.5 | 341.5 | 335.1 | 324.1 | 322.8 |
| 40° | 645.6 | 389.4 | 337.5 | 347.1 | 349.8 | 347.7 | 338.3 | 329.8 | 335.6 | 333.0 | 333.0 |
| 42.5° | 668.8 | 380.6 | 326.5 | 332.1 | 334.3 | 335.9 | 329.2 | 321.9 | 329.2 | 316.9 | 312.9 |
| 45° | 705.8 | 380.8 | 316.6 | 317.4 | 323.9 | 329.4 | 324.9 | 314.2 | 310.4 | 285.9 | 281.0 |
| 47.5° | 760.1 | 390.0 | 308.6 | 303.5 | 315.0 | 324.4 | 318.0 | 302.4 | 285.9 | 269.5 | 266.6 |
| 50° | 823.5 | 406.3 | 301.3 | 289.1 | 303.3 | 318.0 | 313.1 | 294.9 | 277.8 | 267.9 | 266.0 |
| 52.5° | 893.9 | 426.9 | 292.5 | 273.0 | 288.8 | 315.0 | 314.2 | 293.8 | 270.3 | 263.7 | 262.0 |
| 55° | 980.9 | 447.2 | 281.6 | 254.2 | 275.9 | 312.6 | 311.3 | 285.0 | 268.7 | 263.9 | 263.3 |
| 57.5° | 1082.0 | 476.7 | 265.8 | 235.2 | 261.2 | 302.7 | 299.7 | 279.7 | 263.3 | 259.9 | 259.6 |
| 60° | 1245.0 | 522.4 | 243.3 | 217.8 | 246.2 | 285.3 | 289.1 | 270.5 | 254.8 | 254.0 | 253.7 |
| 62.5° | 1459.4 | 586.7 | 220.0 | 199.9 | 228.8 | 262.8 | 273.5 | 258.3 | 245.7 | 249.7 | 250.2 |
| 65° | 1755.4 | 640.7 | 195.9 | 184.7 | 209.6 | 241.1 | 258.8 | 246.7 | 235.5 | 243.3 | 243.3 |
| 67.5° | 1948.3 | 641.8 | 173.9 | 168.9 | 190.0 | 222.9 | 243.3 | 233.1 | 222.4 | 235.5 | 236.1 |
| 70° | 1908.2 | 562.3 | 155.8 | 152.3 | 171.0 | 203.4 | 226.1 | 218.2 | 205.8 | 217.6 | 213.3 |
| 71° | 1843.5 | 518.1 | 148.5 | 145.8 | 163.5 | 194.0 | 218.2 | 211.4 | 199.1 | 206.9 | 204.4 |
| 72.5° | 1740.1 | 449.9 | 136.7 | 137.3 | 152.3 | 182.2 | 206.9 | 199.9 | 187.6 | 191.9 | 191.1 |
| 75° | 1470.9 | 392.9 | 117.0 | 119.3 | 130.9 | 162.1 | 184.4 | 179.0 | 166.4 | 166.4 | 165.7 |
| 77.5° | 919.5 | 274.6 | 97.1 | 98.5 | 111.1 | 138.9 | 158.4 | 153.9 | 141.9 | 137.8 | 136.7 |
| 80° | 343.1 | 141.9 | 76.0 | 77.6 | 85.4 | 109.5 | 131.1 | 126.8 | 114.5 | 110.0 | 105.7 |
| 82.5° | 129.8 | 71.1 | 55.9 | 54.6 | 62.9 | 83.5 | 102.8 | 97.7 | 88.1 | 77.1 | 73.8 |
| 85° | 48.9 | 35.3 | 34.2 | 33.2 | 36.9 | 49.5 | 63.7 | 62.7 | 52.5 | 44.7 | 43.9 |
| 87.5° | 12.9 | 11.5 | 13.4 | 9.9 | 10.4 | 9.3 | 9.7 | 4.0 | 1.9 | 0.8 | 0.5 |
| 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)