

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: P648230

Luminaire Tested: **GALN-SA1B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648230
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-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4533.6 lumens
Efficiency: N/A
Efficacy: 103.0 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

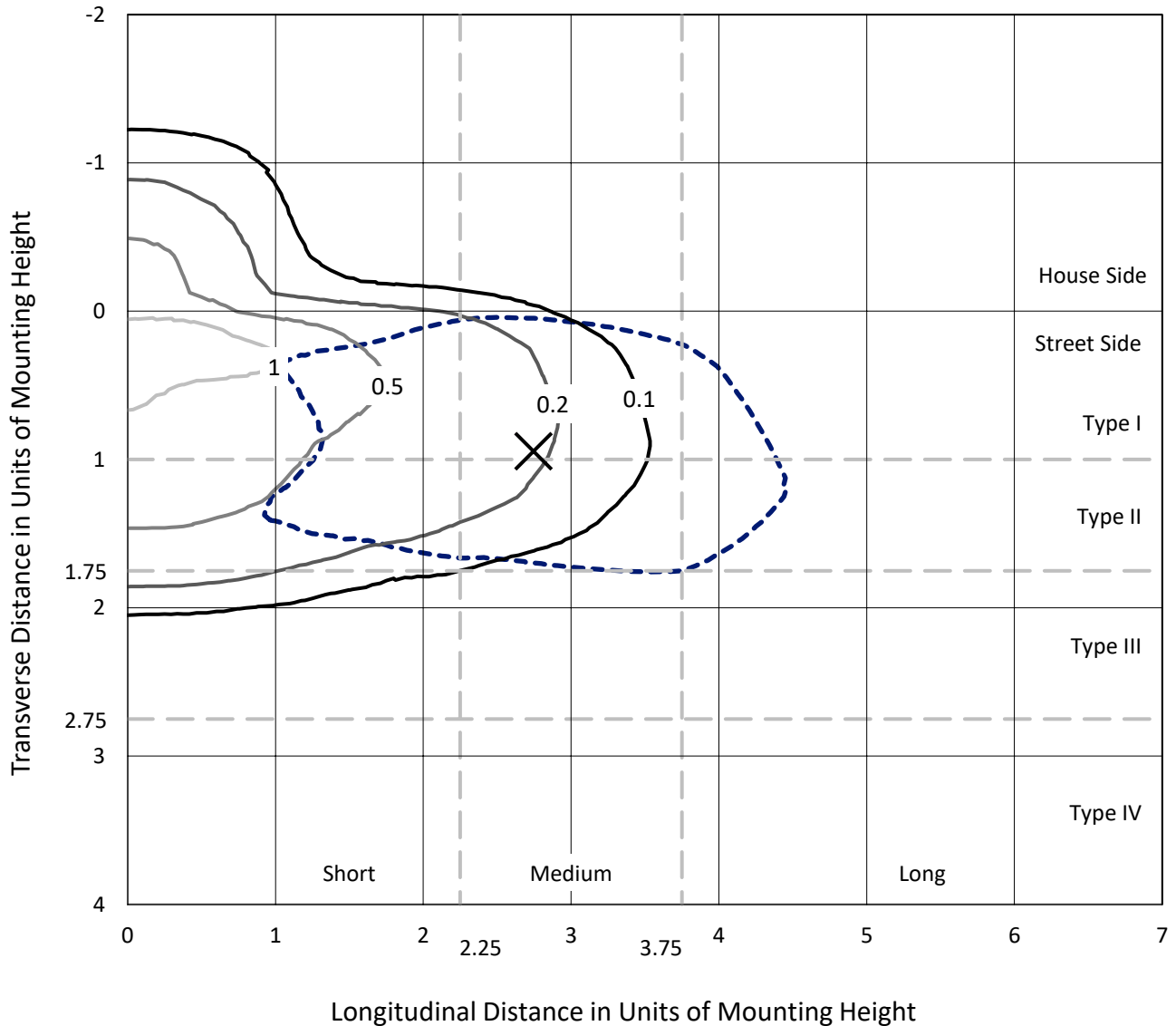
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

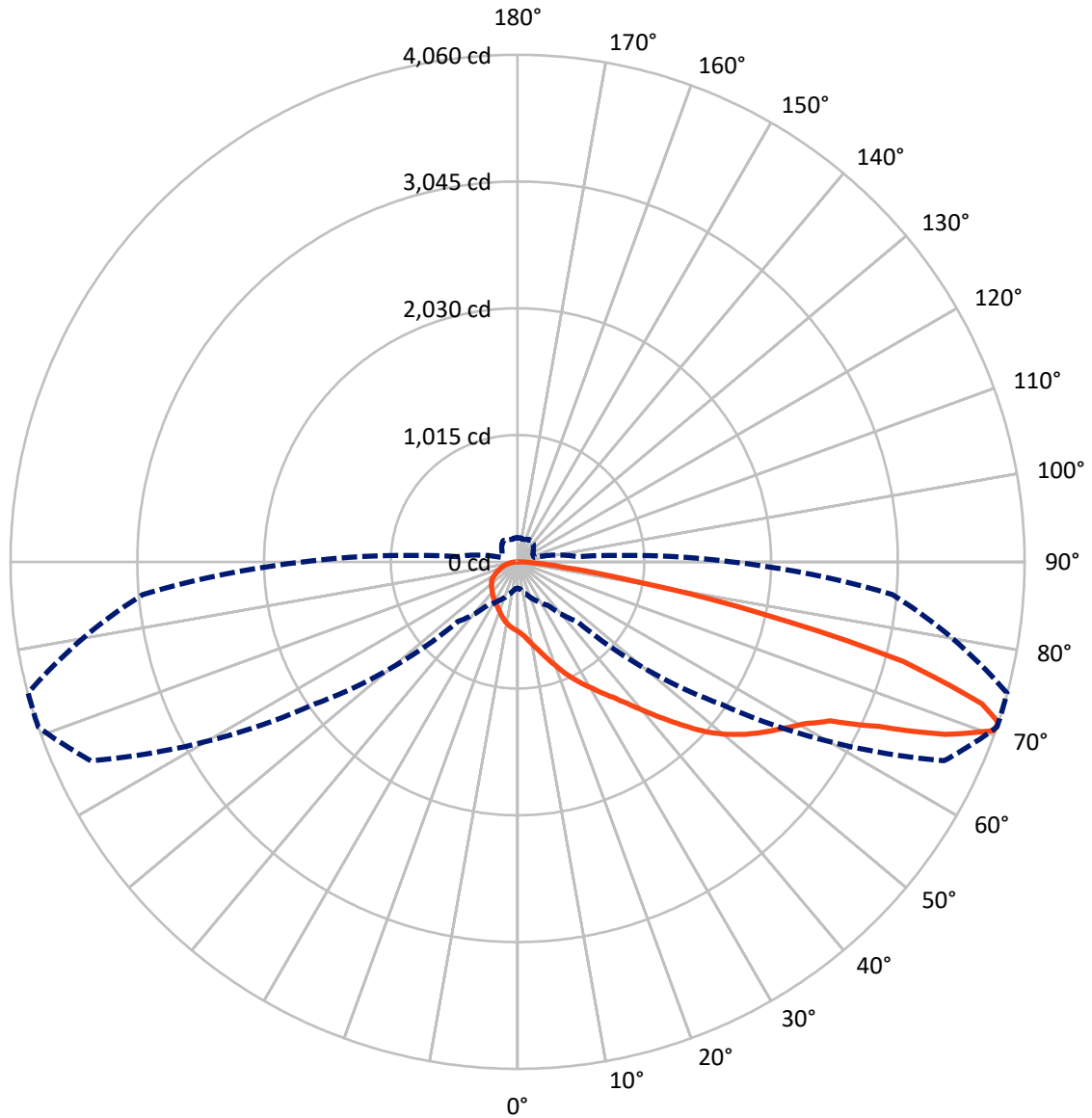
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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 | 815.3 | 0.0 | 815.3 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 3718.2 | 0.0 | 3718.2 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 4533.6 | 0.0 | 4533.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.9 | 1.2 |
| 10°-20° | 181.5 | 4.0 |
| 20°-30° | 317.2 | 7.0 |
| 30°-40° | 471.8 | 10.4 |
| 40°-50° | 695.1 | 15.3 |
| 50°-60° | 973.2 | 21.5 |
| 60°-70° | 1088.5 | 24.0 |
| 70°-80° | 664.9 | 14.7 |
| 80°-90° | 85.5 | 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° | 4533.6 | 100.0 |
| 0°-180° | 4533.6 | 100.0 |

Coefficient of Utilization

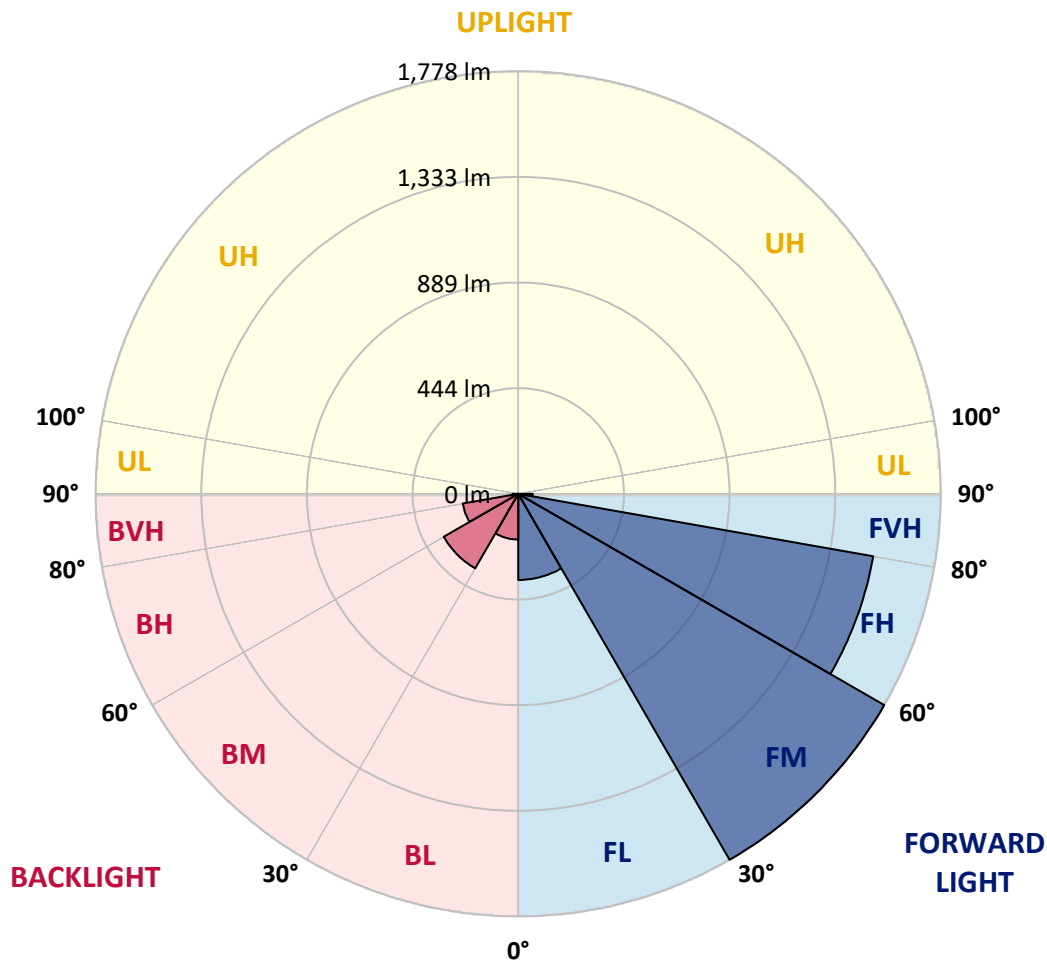


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 362.2 | 8.0 | | | |
| FM (30°-60°) | 1778.0 | 39.2 | | | |
| FH (60°-80°) | 1516.5 | 33.4 | | | G1/1800 |
| FVH (80°-90°) | 61.5 | 1.4 | | | G1/100 |
| BL (0°-30°) | 192.3 | 4.2 | B1/500 | | |
| BM (30°-60°) | 362.1 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 236.9 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.0 | 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° | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 |
| 2.5° | 617.7 | 614.7 | 615.0 | 610.7 | 605.3 | 599.2 | 590.8 | 583.3 | 577.3 | 573.9 | 563.6 |
| 5° | 684.5 | 681.5 | 677.8 | 668.5 | 664.5 | 649.8 | 631.2 | 614.2 | 601.3 | 594.1 | 573.6 |
| 7.5° | 738.5 | 737.8 | 736.8 | 731.6 | 721.4 | 700.9 | 685.0 | 655.6 | 636.4 | 622.7 | 587.8 |
| 10° | 772.0 | 773.2 | 773.9 | 774.9 | 770.7 | 760.0 | 738.1 | 700.9 | 676.5 | 659.1 | 606.3 |
| 12.5° | 788.9 | 790.1 | 794.4 | 803.6 | 809.3 | 808.1 | 790.1 | 753.7 | 720.1 | 697.2 | 625.9 |
| 15° | 799.4 | 801.3 | 808.8 | 821.1 | 840.2 | 852.5 | 843.7 | 810.1 | 773.2 | 746.0 | 649.3 |
| 17.5° | 810.8 | 813.1 | 821.3 | 838.7 | 863.9 | 890.3 | 899.7 | 870.9 | 830.8 | 798.3 | 675.5 |
| 20° | 817.3 | 820.3 | 832.0 | 854.9 | 884.3 | 922.7 | 954.1 | 938.9 | 895.0 | 859.2 | 705.6 |
| 22.5° | 827.8 | 830.2 | 840.2 | 864.7 | 899.7 | 947.8 | 1008.4 | 1005.1 | 966.5 | 920.2 | 738.8 |
| 25° | 856.1 | 860.1 | 865.1 | 879.9 | 913.8 | 973.5 | 1053.5 | 1075.9 | 1035.8 | 984.0 | 769.2 |
| 27.5° | 909.8 | 913.0 | 912.7 | 914.7 | 933.9 | 995.7 | 1092.6 | 1145.9 | 1104.6 | 1048.5 | 798.6 |
| 30° | 970.8 | 972.0 | 973.0 | 968.6 | 972.8 | 1018.4 | 1128.5 | 1215.2 | 1173.9 | 1114.8 | 824.3 |
| 32.5° | 1045.1 | 1047.5 | 1039.0 | 1027.6 | 1024.1 | 1052.0 | 1158.1 | 1284.5 | 1255.9 | 1182.1 | 849.7 |
| 35° | 1132.8 | 1139.2 | 1122.0 | 1101.8 | 1087.7 | 1100.3 | 1198.1 | 1355.3 | 1339.8 | 1268.1 | 883.3 |
| 37.5° | 1232.9 | 1240.9 | 1224.9 | 1185.3 | 1165.1 | 1168.6 | 1250.1 | 1442.8 | 1446.0 | 1365.9 | 933.4 |
| 40° | 1314.9 | 1325.4 | 1325.9 | 1269.8 | 1239.2 | 1243.2 | 1316.1 | 1536.9 | 1574.1 | 1487.1 | 992.5 |
| 42.5° | 1369.0 | 1379.2 | 1389.9 | 1357.0 | 1324.8 | 1347.5 | 1393.1 | 1639.1 | 1718.1 | 1634.1 | 1074.9 |
| 45° | 1428.3 | 1437.5 | 1443.5 | 1428.5 | 1410.6 | 1469.4 | 1486.1 | 1747.7 | 1871.5 | 1798.3 | 1165.1 |
| 47.5° | 1497.0 | 1507.3 | 1513.0 | 1498.8 | 1492.1 | 1576.3 | 1586.3 | 1849.1 | 2035.5 | 1957.7 | 1264.8 |
| 50° | 1588.7 | 1596.5 | 1593.5 | 1584.5 | 1583.0 | 1658.2 | 1682.4 | 1944.0 | 2170.8 | 2129.4 | 1368.2 |
| 52.5° | 1702.9 | 1712.1 | 1715.3 | 1702.6 | 1696.8 | 1716.8 | 1759.9 | 2030.6 | 2293.9 | 2277.0 | 1478.6 |
| 55° | 1771.9 | 1786.6 | 1835.9 | 1855.9 | 1869.6 | 1792.5 | 1843.4 | 2125.9 | 2404.3 | 2432.5 | 1597.2 |
| 57.5° | 1683.4 | 1702.3 | 1812.7 | 1912.4 | 2041.2 | 1981.9 | 1961.7 | 2225.6 | 2514.7 | 2583.2 | 1739.2 |
| 60° | 1467.7 | 1471.9 | 1614.2 | 1797.8 | 2056.9 | 2225.4 | 2208.7 | 2384.1 | 2634.2 | 2735.2 | 1926.3 |
| 62.5° | 1018.1 | 1027.1 | 1195.3 | 1488.3 | 1863.1 | 2313.1 | 2628.8 | 2657.7 | 2805.7 | 2962.7 | 2200.7 |
| 65° | 525.0 | 513.3 | 666.6 | 935.4 | 1404.6 | 2104.8 | 2969.1 | 3160.8 | 3177.5 | 3318.5 | 2587.0 |
| 67.5° | 323.1 | 328.4 | 400.2 | 546.2 | 830.5 | 1529.7 | 2933.5 | 3775.5 | 3687.5 | 3755.3 | 2945.5 |
| 70° | 242.7 | 249.2 | 298.5 | 373.7 | 506.3 | 874.6 | 2359.2 | 3924.5 | 4047.3 | 4029.9 | 3054.6 |
| 71° | 211.0 | 217.8 | 269.1 | 340.1 | 425.3 | 675.0 | 1987.6 | 3768.5 | 4059.8 | 4056.8 | 3013.5 |
| 72.5° | 179.9 | 184.2 | 224.3 | 288.1 | 358.5 | 473.2 | 1493.3 | 3379.8 | 3886.7 | 3986.0 | 2866.7 |
| 75° | 141.3 | 144.5 | 162.5 | 219.8 | 282.3 | 290.6 | 801.3 | 2533.9 | 3192.1 | 3381.5 | 2386.6 |
| 77.5° | 115.1 | 117.4 | 126.6 | 163.2 | 217.8 | 205.9 | 420.4 | 1649.3 | 1999.9 | 2190.5 | 1405.9 |
| 80° | 91.5 | 94.0 | 99.4 | 110.6 | 163.2 | 146.7 | 200.6 | 835.7 | 966.1 | 964.0 | 561.2 |
| 82.5° | 71.0 | 71.8 | 78.2 | 81.2 | 111.7 | 104.1 | 108.6 | 353.8 | 392.0 | 404.9 | 202.6 |
| 85° | 44.9 | 47.1 | 69.3 | 62.3 | 66.8 | 61.1 | 53.6 | 140.5 | 173.2 | 170.7 | 81.0 |
| 87.5° | 13.7 | 14.5 | 23.4 | 26.4 | 29.7 | 26.7 | 19.7 | 41.3 | 50.6 | 54.8 | 20.2 |
| 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° | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 | 556.4 |
| 2.5° | 559.6 | 556.9 | 547.2 | 539.3 | 531.7 | 523.5 | 516.5 | 514.5 | 512.8 | 512.1 | 511.8 |
| 5° | 564.9 | 556.6 | 537.5 | 521.8 | 509.3 | 497.8 | 490.6 | 487.4 | 484.1 | 484.1 | 485.1 |
| 7.5° | 572.4 | 557.4 | 527.7 | 504.3 | 488.6 | 477.9 | 472.7 | 472.1 | 472.9 | 473.7 | 473.9 |
| 10° | 580.6 | 556.9 | 513.6 | 484.4 | 470.4 | 465.5 | 465.7 | 470.0 | 473.9 | 476.9 | 477.4 |
| 12.5° | 588.6 | 553.9 | 496.9 | 465.7 | 456.7 | 457.7 | 464.7 | 474.2 | 481.9 | 486.2 | 486.4 |
| 15° | 597.5 | 549.2 | 476.7 | 448.0 | 445.1 | 452.7 | 465.7 | 480.1 | 491.9 | 498.8 | 499.6 |
| 17.5° | 605.0 | 541.2 | 455.5 | 430.8 | 434.6 | 448.7 | 466.7 | 485.4 | 499.6 | 508.3 | 509.8 |
| 20° | 613.5 | 531.0 | 433.5 | 414.4 | 425.1 | 444.3 | 464.7 | 484.9 | 499.6 | 508.1 | 510.0 |
| 22.5° | 620.2 | 516.5 | 412.6 | 400.9 | 416.6 | 438.8 | 458.0 | 474.2 | 486.2 | 490.6 | 493.6 |
| 25° | 623.0 | 498.4 | 392.9 | 389.9 | 409.9 | 429.8 | 442.8 | 452.0 | 455.7 | 455.2 | 456.5 |
| 27.5° | 621.5 | 477.4 | 376.0 | 381.2 | 401.4 | 415.9 | 422.4 | 421.6 | 414.9 | 408.6 | 411.6 |
| 30° | 615.2 | 452.5 | 361.8 | 372.2 | 390.5 | 398.5 | 397.5 | 387.7 | 375.0 | 363.3 | 364.0 |
| 32.5° | 604.0 | 425.6 | 348.6 | 362.1 | 375.0 | 378.5 | 371.8 | 359.1 | 340.8 | 325.6 | 323.5 |
| 35° | 594.5 | 400.0 | 336.8 | 350.3 | 359.6 | 357.8 | 351.3 | 334.9 | 318.4 | 305.0 | 302.7 |
| 37.5° | 593.0 | 378.0 | 325.6 | 337.2 | 342.3 | 339.9 | 331.9 | 318.0 | 311.9 | 301.8 | 300.5 |
| 40° | 601.0 | 362.5 | 314.2 | 323.1 | 325.6 | 323.7 | 314.9 | 307.0 | 312.5 | 310.0 | 310.0 |
| 42.5° | 622.7 | 354.3 | 304.0 | 309.2 | 311.2 | 312.7 | 306.5 | 299.7 | 306.5 | 295.0 | 291.3 |
| 45° | 657.1 | 354.5 | 294.8 | 295.5 | 301.5 | 306.7 | 302.5 | 292.5 | 289.0 | 266.1 | 261.6 |
| 47.5° | 707.7 | 363.1 | 287.3 | 282.6 | 293.3 | 302.0 | 296.1 | 281.6 | 266.1 | 251.0 | 248.2 |
| 50° | 766.7 | 378.3 | 280.5 | 269.1 | 282.3 | 296.1 | 291.5 | 274.6 | 258.6 | 249.4 | 247.7 |
| 52.5° | 832.3 | 397.5 | 272.3 | 254.2 | 268.9 | 293.3 | 292.5 | 273.6 | 251.7 | 245.5 | 243.9 |
| 55° | 913.2 | 416.4 | 262.1 | 236.7 | 256.9 | 291.0 | 289.8 | 265.4 | 250.2 | 245.7 | 245.2 |
| 57.5° | 1007.4 | 443.8 | 247.4 | 219.0 | 243.2 | 281.8 | 279.1 | 260.4 | 245.2 | 241.9 | 241.7 |
| 60° | 1159.2 | 486.4 | 226.5 | 202.8 | 229.3 | 265.6 | 269.1 | 251.9 | 237.2 | 236.5 | 236.2 |
| 62.5° | 1358.7 | 546.2 | 204.8 | 186.1 | 213.1 | 244.7 | 254.6 | 240.5 | 228.7 | 232.5 | 232.9 |
| 65° | 1634.4 | 596.5 | 182.4 | 171.9 | 195.1 | 224.5 | 240.9 | 229.7 | 219.2 | 226.5 | 226.5 |
| 67.5° | 1814.0 | 597.5 | 161.9 | 157.2 | 176.9 | 207.6 | 226.5 | 217.0 | 207.0 | 219.2 | 219.8 |
| 70° | 1776.6 | 523.5 | 145.0 | 141.8 | 159.2 | 189.4 | 210.5 | 203.1 | 191.6 | 202.6 | 198.6 |
| 71° | 1716.3 | 482.4 | 138.3 | 135.8 | 152.2 | 180.6 | 203.1 | 196.8 | 185.4 | 192.6 | 190.3 |
| 72.5° | 1620.1 | 418.8 | 127.3 | 127.9 | 141.8 | 169.7 | 192.6 | 186.1 | 174.7 | 178.7 | 177.9 |
| 75° | 1369.5 | 365.8 | 108.9 | 111.1 | 121.8 | 151.0 | 171.7 | 166.7 | 155.0 | 155.0 | 154.3 |
| 77.5° | 856.1 | 255.6 | 90.4 | 91.7 | 103.4 | 129.4 | 147.5 | 143.3 | 132.1 | 128.3 | 127.3 |
| 80° | 319.5 | 132.1 | 70.8 | 72.3 | 79.5 | 101.9 | 122.1 | 118.1 | 106.6 | 102.4 | 98.4 |
| 82.5° | 120.8 | 66.2 | 52.1 | 50.8 | 58.6 | 77.8 | 95.7 | 91.0 | 82.0 | 71.8 | 68.7 |
| 85° | 45.6 | 32.9 | 31.9 | 30.9 | 34.4 | 46.1 | 59.3 | 58.3 | 48.9 | 41.6 | 40.9 |
| 87.5° | 12.0 | 10.7 | 12.4 | 9.2 | 9.7 | 8.7 | 9.0 | 3.8 | 1.7 | 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)