

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: P321795

Luminaire Tested: **GAN-SA1B-722-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3382 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

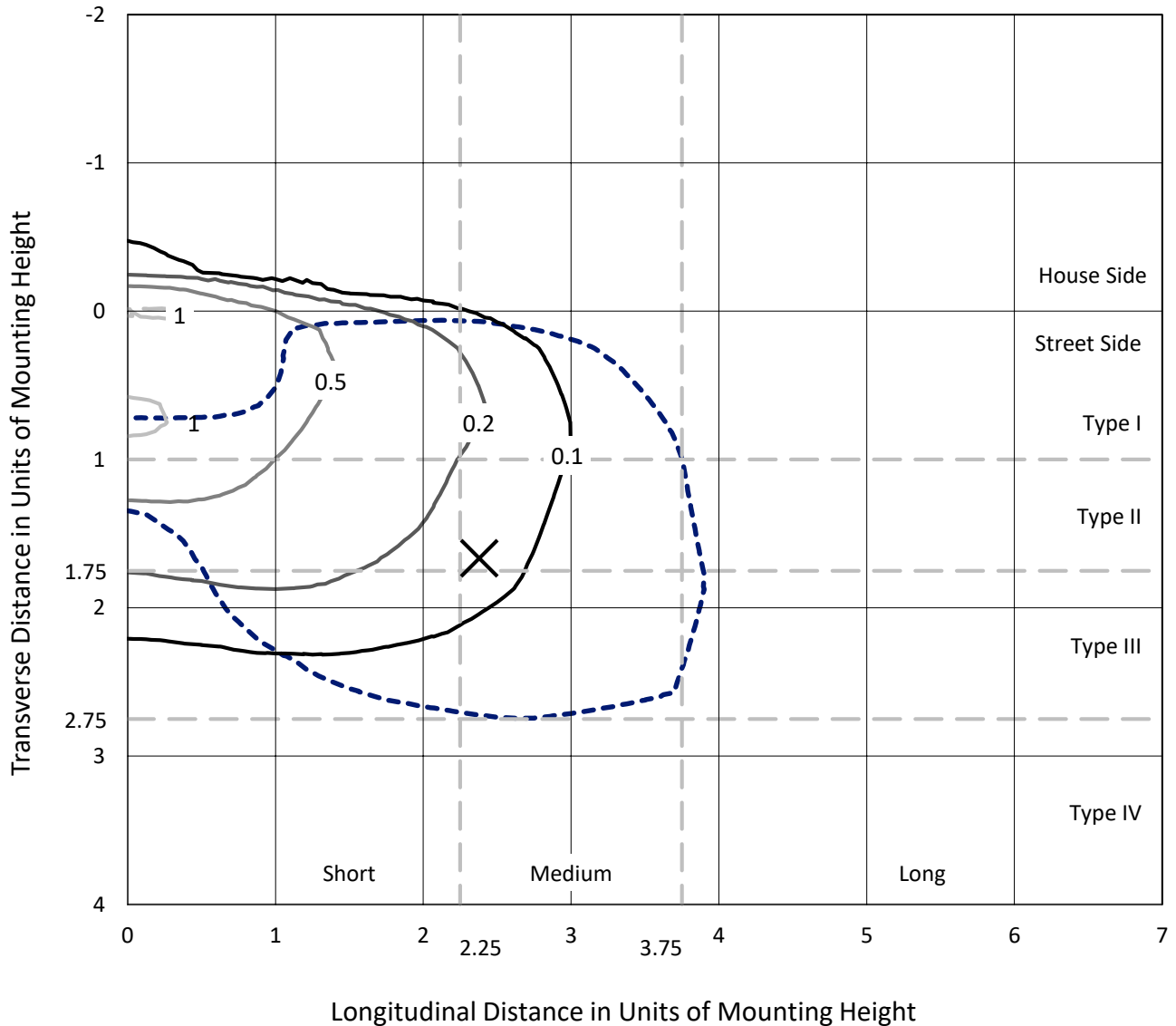
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

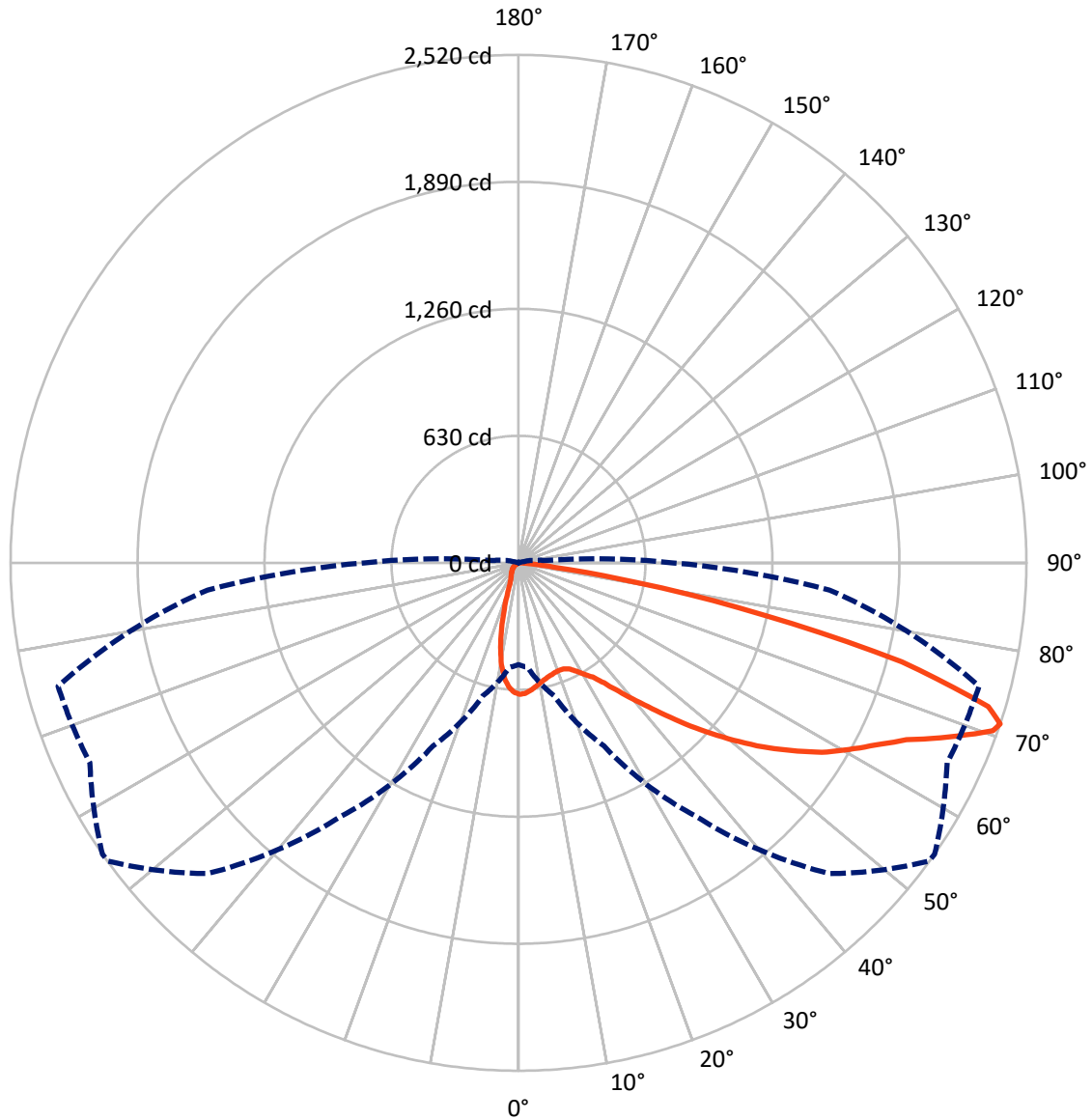
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 267.8 | 0.0 | 267.8 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 3114.2 | 0.0 | 3114.2 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 3382.0 | 0.0 | 3382.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.6 | 1.6 |
| 10°-20° | 125.5 | 3.7 |
| 20°-30° | 201.8 | 6.0 |
| 30°-40° | 342.8 | 10.1 |
| 40°-50° | 532.1 | 15.7 |
| 50°-60° | 715.4 | 21.2 |
| 60°-70° | 875.1 | 25.9 |
| 70°-80° | 511.7 | 15.1 |
| 80°-90° | 22.1 | 0.7 |
| 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° | 3382.0 | 100.0 |
| 0°-180° | 3382.0 | 100.0 |

Coefficient of Utilization

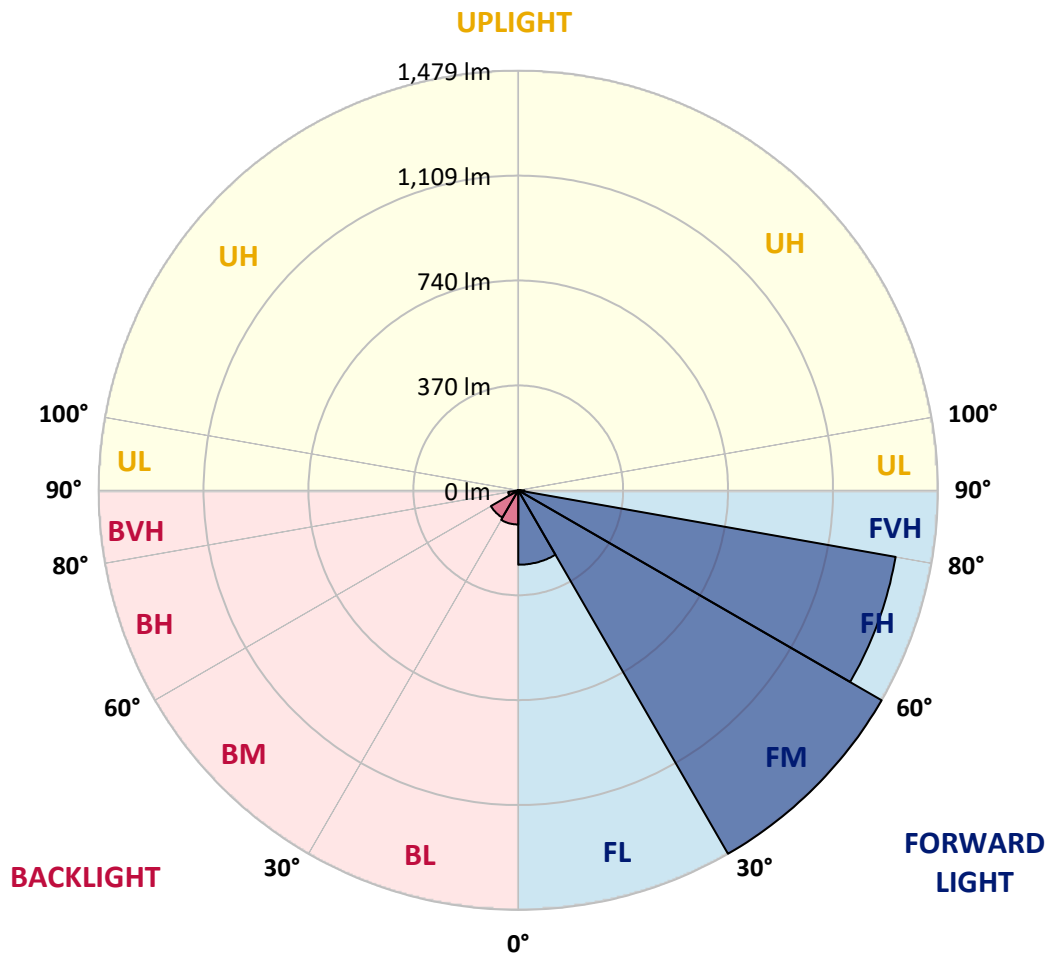


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 262.4 | 7.8 | | | |
| FM (30°-60°) | 1479.2 | 43.7 | | | |
| FH (60°-80°) | 1350.9 | 39.9 | | | G1/1800 |
| FVH (80°-90°) | 21.8 | 0.6 | | | G1/100 |
| BL (0°-30°) | 120.5 | 3.6 | B1/500 | | |
| BM (30°-60°) | 111.0 | 3.3 | B0/220 | | |
| BH (60°-80°) | 35.9 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 |
| 2.5° | 633.1 | 633.9 | 636.6 | 637.8 | 640.7 | 645.5 | 648.0 | 648.1 | 652.1 | 653.6 | 654.8 |
| 5° | 588.3 | 592.9 | 597.4 | 602.3 | 611.1 | 622.8 | 634.3 | 635.4 | 648.1 | 657.5 | 662.6 |
| 7.5° | 549.7 | 553.8 | 559.3 | 567.0 | 579.5 | 597.9 | 617.2 | 619.4 | 643.6 | 665.0 | 676.2 |
| 10° | 510.1 | 513.4 | 521.3 | 532.7 | 549.9 | 574.5 | 600.4 | 604.2 | 639.5 | 675.0 | 694.8 |
| 12.5° | 467.7 | 469.7 | 479.3 | 495.7 | 520.9 | 552.2 | 586.3 | 591.3 | 636.9 | 686.6 | 716.6 |
| 15° | 435.5 | 436.4 | 445.6 | 462.6 | 491.4 | 532.1 | 575.4 | 581.5 | 637.5 | 700.4 | 740.5 |
| 17.5° | 427.3 | 427.8 | 432.6 | 444.3 | 469.8 | 514.2 | 566.7 | 574.2 | 639.3 | 713.9 | 764.5 |
| 20° | 460.6 | 457.4 | 452.4 | 450.6 | 461.5 | 503.4 | 561.6 | 569.9 | 641.8 | 725.9 | 786.0 |
| 22.5° | 551.9 | 542.4 | 521.6 | 493.8 | 477.0 | 504.2 | 562.9 | 571.3 | 649.5 | 740.6 | 810.9 |
| 25° | 687.3 | 674.3 | 638.9 | 584.2 | 531.7 | 526.0 | 574.3 | 582.8 | 664.5 | 758.2 | 834.8 |
| 27.5° | 841.4 | 828.5 | 785.3 | 707.2 | 617.6 | 569.3 | 600.4 | 608.3 | 686.9 | 773.9 | 853.0 |
| 30° | 989.1 | 985.4 | 934.4 | 845.7 | 725.7 | 639.5 | 634.2 | 640.8 | 703.4 | 783.3 | 867.4 |
| 32.5° | 1114.2 | 1108.4 | 1067.4 | 981.2 | 849.5 | 723.8 | 673.8 | 675.8 | 715.9 | 795.4 | 886.2 |
| 35° | 1230.2 | 1223.1 | 1187.1 | 1105.5 | 976.4 | 826.7 | 734.8 | 732.0 | 743.0 | 819.9 | 913.6 |
| 37.5° | 1331.5 | 1338.0 | 1298.1 | 1220.5 | 1090.3 | 933.8 | 817.1 | 808.5 | 785.6 | 859.7 | 953.2 |
| 40° | 1416.2 | 1416.2 | 1395.4 | 1330.7 | 1213.3 | 1044.5 | 910.2 | 898.8 | 849.5 | 921.0 | 1003.5 |
| 42.5° | 1446.8 | 1453.3 | 1461.0 | 1424.4 | 1323.4 | 1159.6 | 1014.0 | 1002.1 | 939.5 | 1008.0 | 1067.0 |
| 45° | 1448.6 | 1458.9 | 1498.5 | 1498.4 | 1422.9 | 1273.9 | 1130.9 | 1125.3 | 1055.0 | 1119.8 | 1145.6 |
| 47.5° | 1422.9 | 1435.8 | 1501.1 | 1538.2 | 1501.7 | 1380.4 | 1258.8 | 1251.8 | 1190.6 | 1256.8 | 1227.9 |
| 50° | 1383.3 | 1397.6 | 1473.5 | 1553.8 | 1555.3 | 1473.0 | 1393.5 | 1383.0 | 1339.8 | 1413.3 | 1313.0 |
| 52.5° | 1312.4 | 1340.0 | 1448.7 | 1557.5 | 1590.6 | 1553.1 | 1521.6 | 1517.1 | 1506.9 | 1564.1 | 1380.7 |
| 55° | 1160.7 | 1191.3 | 1386.6 | 1558.7 | 1623.2 | 1624.0 | 1641.7 | 1643.0 | 1663.5 | 1705.1 | 1431.1 |
| 57.5° | 1089.0 | 1106.3 | 1278.2 | 1564.4 | 1671.7 | 1704.5 | 1764.1 | 1773.6 | 1805.3 | 1838.9 | 1488.7 |
| 60° | 1043.9 | 1064.4 | 1224.7 | 1556.5 | 1747.7 | 1810.0 | 1877.6 | 1880.8 | 1914.8 | 1976.9 | 1566.6 |
| 62.5° | 1007.9 | 1028.1 | 1191.0 | 1526.2 | 1833.2 | 1937.0 | 1988.4 | 1988.7 | 2014.2 | 2141.4 | 1655.1 |
| 65° | 919.0 | 936.1 | 1122.8 | 1492.0 | 1889.7 | 2062.5 | 2117.2 | 2115.2 | 2136.0 | 2314.8 | 1757.9 |
| 67.5° | 790.6 | 803.6 | 983.6 | 1362.5 | 1868.5 | 2176.7 | 2311.6 | 2305.1 | 2279.8 | 2464.7 | 1798.3 |
| 70° | 611.2 | 615.9 | 775.2 | 1135.4 | 1669.2 | 2220.6 | 2499.4 | 2496.1 | 2368.1 | 2437.8 | 1650.2 |
| 71° | 505.2 | 520.7 | 683.2 | 1002.1 | 1535.7 | 2180.1 | 2517.7 | 2519.6 | 2345.9 | 2364.6 | 1548.3 |
| 72.5° | 293.4 | 306.6 | 495.2 | 769.6 | 1303.9 | 2010.9 | 2423.2 | 2437.5 | 2242.3 | 2150.8 | 1322.5 |
| 75° | 62.9 | 67.3 | 183.6 | 372.5 | 717.2 | 1409.4 | 1912.7 | 1963.5 | 1827.6 | 1463.2 | 797.1 |
| 77.5° | 43.7 | 47.2 | 78.7 | 169.0 | 237.1 | 696.4 | 1188.1 | 1245.5 | 1091.9 | 549.9 | 255.1 |
| 80° | 34.6 | 38.6 | 61.4 | 83.5 | 64.1 | 224.6 | 556.6 | 591.6 | 364.2 | 122.7 | 43.0 |
| 82.5° | 19.3 | 22.9 | 47.8 | 45.1 | 24.6 | 42.7 | 155.8 | 176.2 | 72.9 | 24.8 | 10.2 |
| 85° | 5.6 | 6.8 | 30.8 | 32.8 | 10.5 | 8.2 | 26.6 | 33.0 | 13.8 | 6.5 | 4.6 |
| 87.5° | 0.0 | 0.0 | 14.9 | 12.6 | 3.0 | 1.2 | 2.4 | 2.7 | 2.7 | 2.7 | 3.0 |
| 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° | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 | 652.2 |
| 2.5° | 654.8 | 655.9 | 652.1 | 647.1 | 641.8 | 635.2 | 628.4 | 623.1 | 622.9 | 620.3 | 617.8 |
| 5° | 662.9 | 662.3 | 651.8 | 635.8 | 617.0 | 597.4 | 578.7 | 557.6 | 550.6 | 542.0 | 539.1 |
| 7.5° | 677.7 | 673.5 | 651.3 | 616.4 | 575.1 | 534.1 | 491.7 | 449.0 | 430.8 | 414.4 | 411.5 |
| 10° | 696.4 | 688.4 | 648.4 | 587.2 | 511.5 | 435.8 | 371.9 | 313.9 | 288.4 | 268.8 | 267.9 |
| 12.5° | 715.9 | 703.6 | 640.4 | 543.2 | 428.1 | 321.8 | 248.1 | 191.0 | 169.8 | 156.1 | 157.3 |
| 15° | 736.2 | 717.8 | 623.1 | 483.8 | 333.2 | 218.4 | 152.5 | 118.9 | 110.4 | 106.9 | 107.8 |
| 17.5° | 757.0 | 727.7 | 598.9 | 412.3 | 239.5 | 140.9 | 105.5 | 96.1 | 96.1 | 96.9 | 97.2 |
| 20° | 775.1 | 733.0 | 563.4 | 332.1 | 162.3 | 102.7 | 92.3 | 91.0 | 91.7 | 92.9 | 93.1 |
| 22.5° | 793.0 | 733.3 | 517.1 | 250.9 | 113.6 | 89.9 | 87.9 | 87.3 | 87.8 | 89.1 | 89.3 |
| 25° | 807.6 | 729.7 | 459.1 | 178.4 | 90.7 | 84.7 | 83.8 | 83.5 | 83.8 | 85.5 | 85.5 |
| 27.5° | 813.5 | 716.5 | 388.3 | 125.4 | 81.2 | 79.0 | 78.7 | 79.0 | 79.4 | 80.6 | 80.8 |
| 30° | 814.1 | 693.4 | 311.2 | 90.8 | 73.7 | 71.2 | 71.8 | 72.9 | 72.4 | 72.1 | 72.4 |
| 32.5° | 815.6 | 666.7 | 236.0 | 74.7 | 67.3 | 63.5 | 62.7 | 62.7 | 60.9 | 59.8 | 59.2 |
| 35° | 820.6 | 635.2 | 171.1 | 67.1 | 60.7 | 56.3 | 53.5 | 50.1 | 46.6 | 44.8 | 44.3 |
| 37.5° | 828.5 | 602.3 | 122.5 | 62.1 | 55.0 | 50.0 | 44.5 | 38.6 | 33.6 | 32.2 | 32.2 |
| 40° | 843.0 | 568.3 | 90.7 | 58.2 | 50.4 | 44.2 | 36.0 | 28.2 | 23.7 | 22.9 | 22.9 |
| 42.5° | 865.7 | 532.4 | 72.3 | 54.7 | 46.5 | 38.3 | 27.5 | 20.5 | 17.2 | 16.7 | 16.6 |
| 45° | 889.4 | 492.9 | 63.2 | 51.3 | 42.2 | 31.4 | 20.3 | 15.2 | 13.2 | 12.8 | 12.8 |
| 47.5° | 913.1 | 450.9 | 58.8 | 48.1 | 38.1 | 24.4 | 15.2 | 12.0 | 11.1 | 11.1 | 11.2 |
| 50° | 933.2 | 407.0 | 55.6 | 44.6 | 32.8 | 18.5 | 12.0 | 10.2 | 9.9 | 10.5 | 10.6 |
| 52.5° | 938.2 | 363.9 | 51.6 | 40.2 | 26.3 | 14.1 | 9.9 | 9.0 | 9.0 | 9.0 | 9.0 |
| 55° | 935.1 | 330.4 | 46.5 | 34.8 | 19.4 | 11.2 | 8.5 | 7.9 | 7.7 | 7.7 | 7.7 |
| 57.5° | 945.5 | 310.7 | 37.2 | 27.0 | 14.0 | 9.1 | 7.4 | 7.0 | 6.7 | 6.5 | 6.5 |
| 60° | 966.3 | 297.8 | 26.6 | 19.4 | 10.5 | 7.6 | 6.4 | 5.9 | 5.5 | 5.2 | 5.2 |
| 62.5° | 993.9 | 286.6 | 19.7 | 14.4 | 8.0 | 6.1 | 5.3 | 4.9 | 4.3 | 3.9 | 3.9 |
| 65° | 1015.2 | 266.5 | 15.0 | 10.8 | 6.1 | 4.9 | 4.1 | 3.9 | 3.0 | 2.7 | 2.6 |
| 67.5° | 982.7 | 222.5 | 12.1 | 7.9 | 4.6 | 3.8 | 3.2 | 3.0 | 1.8 | 1.5 | 1.5 |
| 70° | 842.8 | 154.9 | 9.7 | 5.8 | 3.3 | 3.0 | 2.6 | 2.0 | 1.4 | 1.2 | 1.2 |
| 71° | 764.3 | 129.4 | 8.8 | 4.9 | 2.9 | 2.9 | 2.4 | 1.7 | 1.2 | 1.1 | 1.1 |
| 72.5° | 634.9 | 91.9 | 7.4 | 3.8 | 2.6 | 3.0 | 2.6 | 1.5 | 1.2 | 1.1 | 0.9 |
| 75° | 368.6 | 38.4 | 5.2 | 2.6 | 2.0 | 3.6 | 3.3 | 1.4 | 0.9 | 0.8 | 0.8 |
| 77.5° | 110.9 | 14.1 | 2.9 | 1.7 | 1.5 | 3.2 | 3.8 | 1.2 | 0.5 | 0.2 | 0.2 |
| 80° | 20.2 | 6.1 | 1.8 | 1.1 | 1.1 | 2.0 | 2.9 | 0.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 7.1 | 3.0 | 1.1 | 0.6 | 0.5 | 0.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.1 | 2.1 | 0.6 | 0.3 | 0.0 | 0.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)