

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: P194019

Luminaire Tested: **GAN-AF-01-LED-U-T3R-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T3R-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
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: 28.75 FT

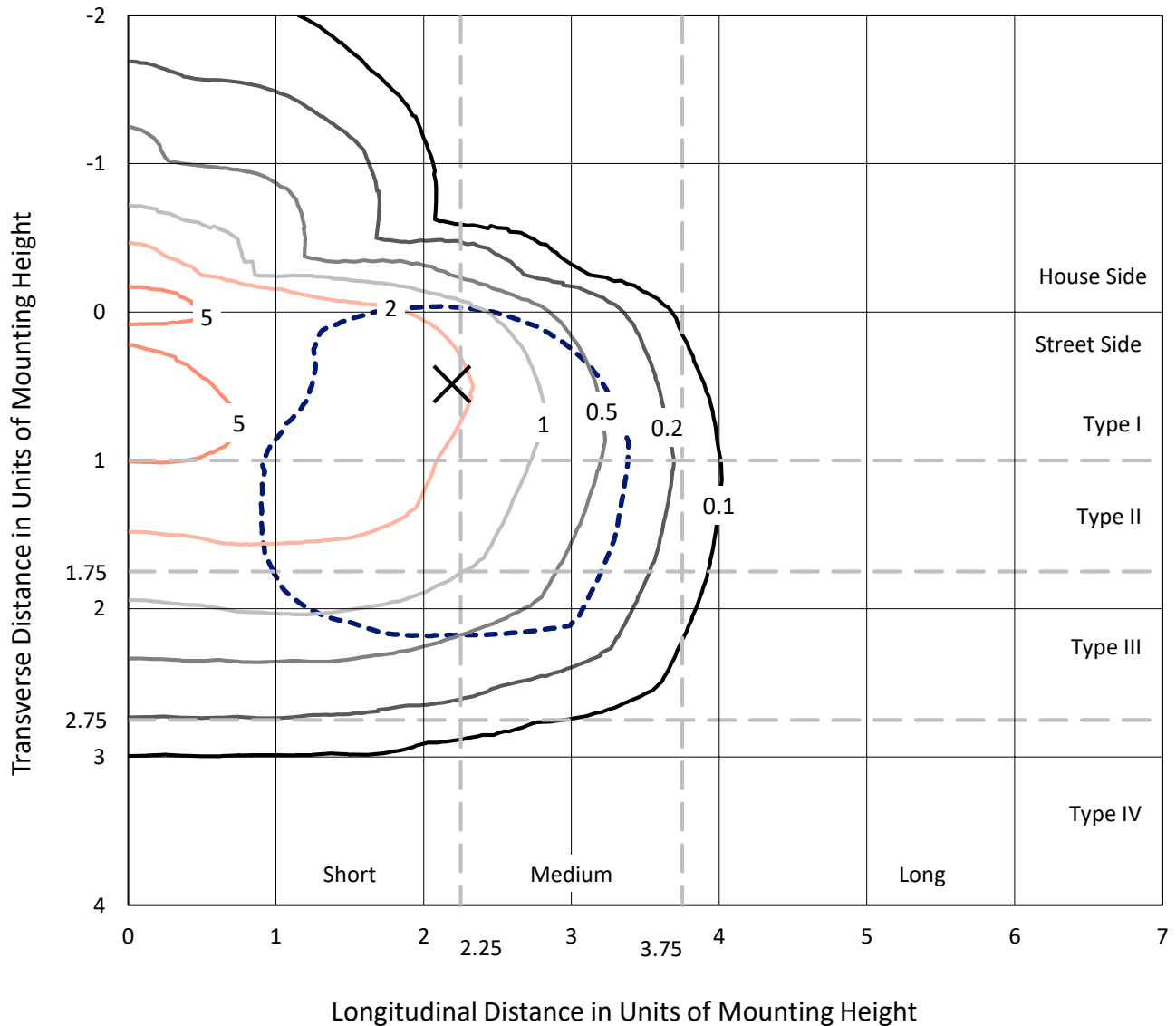


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

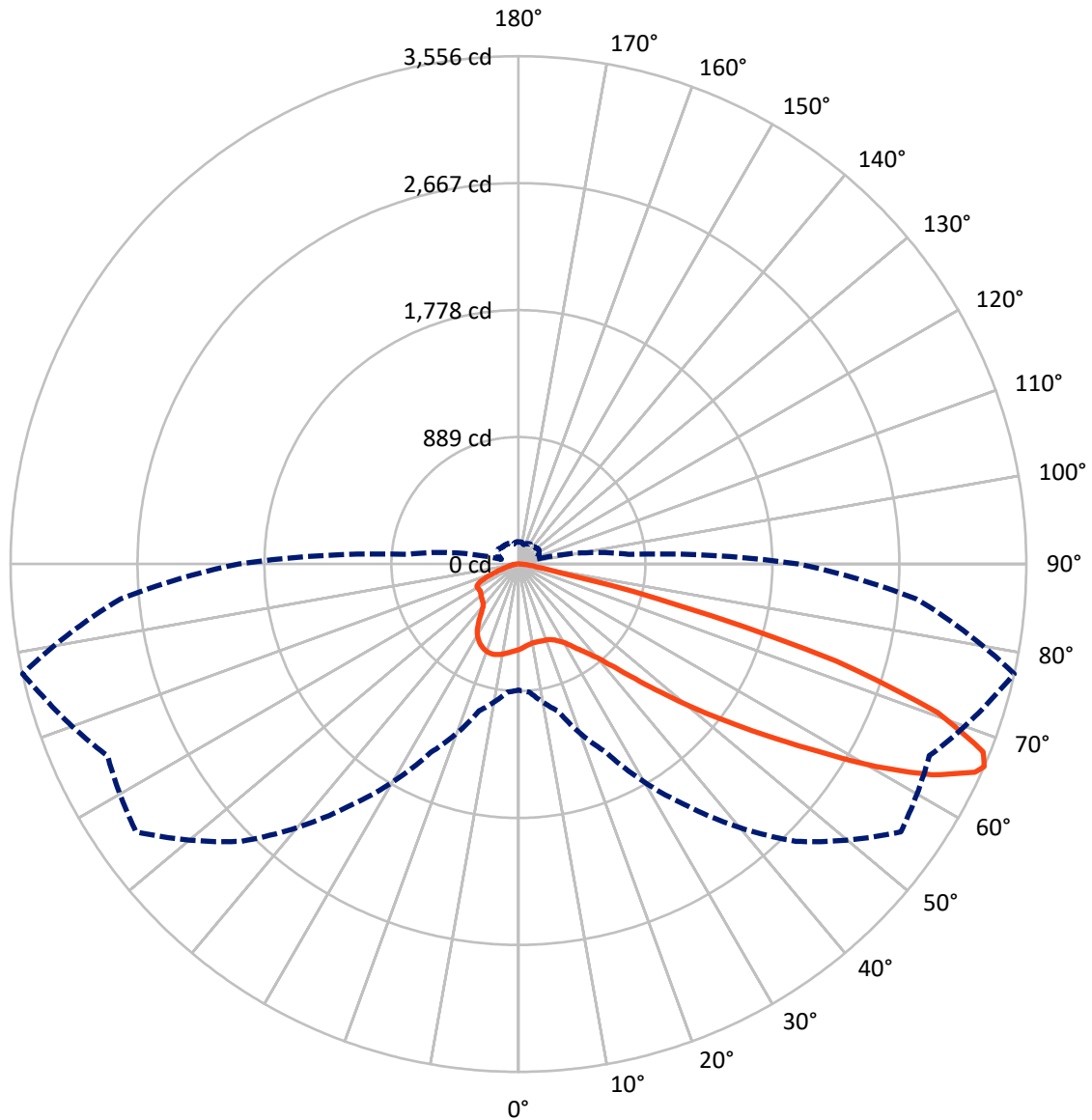


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 717.7 | 0.0 | 717.7 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 3483.3 | 0.0 | 3483.3 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 4201.0 | 0.0 | 4201.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.5 | 1.3 |
| 10°-20° | 150.9 | 3.6 |
| 20°-30° | 257.5 | 6.1 |
| 30°-40° | 412.2 | 9.8 |
| 40°-50° | 636.9 | 15.2 |
| 50°-60° | 903.3 | 21.5 |
| 60°-70° | 1208.4 | 28.8 |
| 70°-80° | 524.8 | 12.5 |
| 80°-90° | 53.5 | 1.3 |
| 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° | 4201.0 | 100.0 |
| 0°-180° | 4201.0 | 100.0 |



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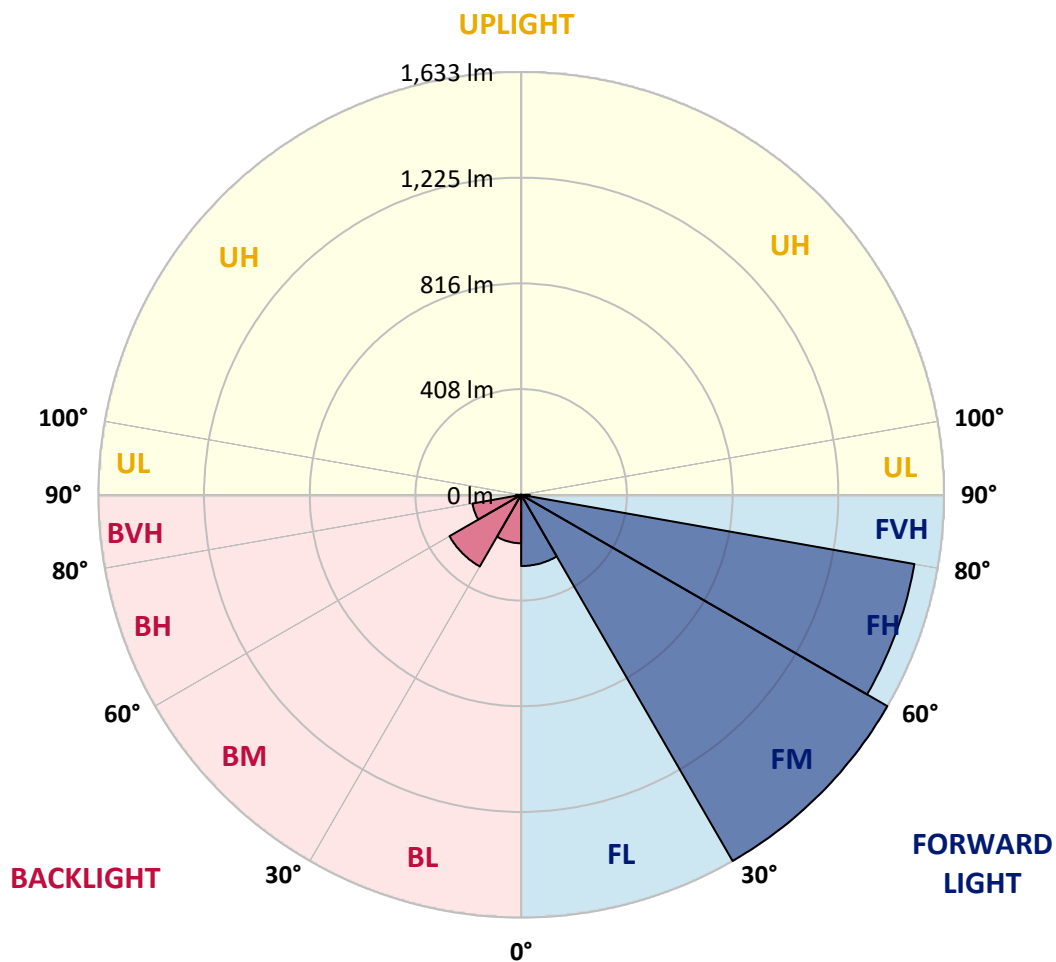
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 275.0 | 6.5 | | | |
| FM | (30°-60°) | 1632.7 | 38.9 | | | |
| FH | (60°-80°) | 1542.0 | 36.7 | | | G1/1800 |
| FVH | (80°-90°) | 33.6 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 186.9 | 4.4 | B1/500 | | |
| BM | (30°-60°) | 319.7 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 191.1 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.0 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 |
| 2.5° | 529.6 | 533.2 | 536.1 | 538.9 | 544.5 | 553.6 | 564.1 | 572.7 | 585.0 | 587.3 | 593.9 |
| 5° | 481.0 | 481.0 | 483.3 | 487.5 | 495.0 | 508.7 | 523.0 | 542.1 | 568.9 | 575.2 | 592.7 |
| 7.5° | 457.3 | 457.5 | 458.9 | 462.5 | 469.0 | 481.6 | 497.2 | 519.7 | 556.0 | 566.5 | 596.3 |
| 10° | 466.1 | 464.1 | 461.1 | 459.3 | 460.3 | 467.7 | 482.5 | 507.6 | 548.0 | 561.5 | 604.2 |
| 12.5° | 514.9 | 511.1 | 500.8 | 487.1 | 474.0 | 468.6 | 477.4 | 501.8 | 544.7 | 560.4 | 614.7 |
| 15° | 594.7 | 593.1 | 573.9 | 545.5 | 513.7 | 487.1 | 481.2 | 499.6 | 545.1 | 561.7 | 627.2 |
| 17.5° | 694.7 | 692.6 | 667.1 | 625.9 | 574.0 | 522.2 | 494.5 | 501.4 | 546.5 | 564.1 | 639.4 |
| 20° | 795.8 | 789.0 | 761.6 | 712.4 | 645.9 | 570.1 | 516.5 | 506.0 | 548.2 | 566.7 | 652.1 |
| 22.5° | 871.2 | 865.6 | 841.0 | 793.2 | 716.6 | 625.5 | 546.1 | 513.9 | 554.0 | 574.2 | 667.7 |
| 25° | 937.5 | 937.9 | 913.5 | 867.2 | 788.0 | 684.2 | 584.2 | 535.1 | 568.7 | 589.7 | 689.2 |
| 27.5° | 1019.5 | 1014.7 | 991.9 | 946.0 | 858.7 | 743.6 | 630.2 | 564.3 | 590.5 | 611.8 | 717.4 |
| 30° | 1117.5 | 1114.2 | 1087.8 | 1035.7 | 937.1 | 807.3 | 682.8 | 598.3 | 618.7 | 640.7 | 754.3 |
| 32.5° | 1232.9 | 1231.3 | 1203.9 | 1137.0 | 1027.6 | 882.3 | 744.6 | 643.1 | 660.8 | 683.6 | 807.3 |
| 35° | 1368.2 | 1368.4 | 1336.1 | 1255.7 | 1126.7 | 969.7 | 814.6 | 700.9 | 712.0 | 735.8 | 870.4 |
| 37.5° | 1451.6 | 1461.7 | 1449.6 | 1367.6 | 1238.8 | 1067.3 | 905.5 | 777.5 | 770.4 | 794.4 | 938.1 |
| 40° | 1469.5 | 1481.8 | 1520.1 | 1478.4 | 1364.3 | 1174.9 | 986.1 | 851.1 | 842.2 | 871.6 | 1025.2 |
| 42.5° | 1444.5 | 1461.5 | 1542.5 | 1571.9 | 1497.5 | 1307.5 | 1094.5 | 960.5 | 949.2 | 988.7 | 1133.6 |
| 45° | 1429.6 | 1442.3 | 1536.0 | 1620.5 | 1613.0 | 1457.4 | 1232.5 | 1097.9 | 1093.7 | 1145.5 | 1258.7 |
| 47.5° | 1403.8 | 1415.3 | 1505.4 | 1631.8 | 1680.9 | 1594.7 | 1398.2 | 1265.8 | 1273.9 | 1341.8 | 1399.8 |
| 50° | 1417.7 | 1422.4 | 1471.2 | 1603.0 | 1700.5 | 1695.4 | 1583.4 | 1460.3 | 1488.1 | 1572.9 | 1559.6 |
| 52.5° | 1415.7 | 1428.0 | 1467.3 | 1555.8 | 1703.1 | 1757.5 | 1765.8 | 1677.3 | 1735.8 | 1833.1 | 1736.8 |
| 55° | 1144.5 | 1167.2 | 1420.6 | 1543.9 | 1712.2 | 1818.4 | 1928.2 | 1906.0 | 2015.1 | 2128.5 | 1936.9 |
| 57.5° | 1092.9 | 1107.2 | 1247.7 | 1568.9 | 1760.7 | 1934.7 | 2108.8 | 2157.6 | 2340.3 | 2471.9 | 2180.7 |
| 60° | 1082.8 | 1100.5 | 1246.0 | 1599.5 | 1858.9 | 2124.3 | 2376.6 | 2462.3 | 2735.9 | 2880.0 | 2463.3 |
| 62.5° | 1051.2 | 1070.3 | 1234.2 | 1595.5 | 1998.5 | 2386.5 | 2719.4 | 2786.3 | 3111.0 | 3251.2 | 2699.7 |
| 65° | 951.2 | 969.1 | 1138.8 | 1531.4 | 2092.5 | 2666.4 | 3125.1 | 3083.2 | 3407.2 | 3512.6 | 2817.6 |
| 66° | 882.7 | 900.2 | 1063.5 | 1456.0 | 2070.7 | 2745.8 | 3268.8 | 3175.1 | 3473.5 | 3556.0 | 2794.6 |
| 67.5° | 757.5 | 771.2 | 917.4 | 1287.0 | 1954.6 | 2768.0 | 3389.7 | 3244.2 | 3480.4 | 3509.6 | 2663.0 |
| 70° | 478.6 | 482.5 | 596.3 | 888.5 | 1479.6 | 2400.6 | 3205.7 | 3072.7 | 3193.4 | 3114.4 | 2232.5 |
| 72.5° | 207.6 | 206.2 | 286.2 | 452.0 | 837.7 | 1610.8 | 2593.1 | 2535.4 | 2505.0 | 2324.8 | 1562.8 |
| 75° | 115.5 | 117.1 | 148.7 | 209.8 | 340.4 | 791.2 | 1696.3 | 1623.3 | 1370.6 | 1169.5 | 708.6 |
| 77.5° | 92.7 | 94.9 | 123.3 | 148.9 | 152.8 | 275.9 | 793.8 | 645.9 | 388.9 | 312.0 | 196.9 |
| 80° | 73.2 | 77.2 | 107.6 | 115.9 | 103.0 | 113.7 | 256.5 | 205.0 | 153.8 | 141.1 | 102.0 |
| 82.5° | 58.0 | 60.7 | 92.3 | 87.7 | 72.1 | 76.6 | 122.9 | 119.7 | 100.0 | 91.1 | 59.0 |
| 85° | 41.7 | 46.8 | 75.8 | 66.1 | 47.2 | 51.6 | 81.6 | 78.2 | 57.4 | 46.8 | 26.0 |
| 87.5° | 17.1 | 22.2 | 53.6 | 43.9 | 26.4 | 24.0 | 40.7 | 38.3 | 27.2 | 19.8 | 12.9 |
| 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° | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 | 598.7 |
| 2.5° | 598.1 | 602.8 | 609.0 | 612.8 | 614.7 | 616.1 | 618.3 | 618.1 | 618.7 | 618.9 | 619.7 |
| 5° | 602.0 | 610.0 | 618.9 | 621.3 | 621.3 | 619.1 | 616.9 | 613.4 | 612.0 | 611.6 | 612.0 |
| 7.5° | 612.4 | 621.1 | 628.8 | 626.1 | 620.1 | 611.4 | 600.1 | 590.1 | 584.8 | 583.0 | 582.6 |
| 10° | 625.5 | 636.0 | 639.2 | 628.6 | 611.2 | 590.1 | 567.7 | 551.4 | 542.1 | 539.5 | 538.7 |
| 12.5° | 641.3 | 651.3 | 646.9 | 624.7 | 592.3 | 558.4 | 527.4 | 501.4 | 481.9 | 475.8 | 475.4 |
| 15° | 658.8 | 666.5 | 651.3 | 612.4 | 564.1 | 514.1 | 458.9 | 414.1 | 389.8 | 382.1 | 381.5 |
| 17.5° | 675.1 | 679.1 | 648.7 | 590.9 | 522.6 | 441.7 | 368.4 | 333.9 | 325.5 | 327.5 | 327.9 |
| 20° | 689.0 | 689.0 | 639.9 | 560.2 | 457.3 | 346.2 | 299.9 | 299.3 | 305.3 | 311.2 | 312.4 |
| 22.5° | 704.3 | 695.1 | 624.7 | 516.7 | 364.8 | 283.3 | 276.5 | 282.1 | 288.8 | 295.4 | 296.4 |
| 25° | 723.1 | 700.1 | 603.4 | 450.8 | 286.8 | 257.3 | 259.8 | 264.4 | 267.8 | 271.9 | 272.5 |
| 27.5° | 744.2 | 706.4 | 575.4 | 360.1 | 248.9 | 241.0 | 243.0 | 244.5 | 244.1 | 245.7 | 246.1 |
| 30° | 769.4 | 713.8 | 537.1 | 281.5 | 233.2 | 227.1 | 223.5 | 222.1 | 222.1 | 224.7 | 225.7 |
| 32.5° | 803.1 | 724.7 | 482.1 | 241.2 | 225.7 | 217.2 | 205.6 | 200.5 | 202.5 | 211.2 | 213.2 |
| 35° | 840.2 | 736.4 | 407.7 | 227.5 | 224.1 | 212.6 | 194.7 | 185.2 | 185.4 | 193.5 | 196.1 |
| 37.5° | 880.7 | 751.3 | 326.1 | 224.9 | 227.7 | 212.8 | 189.0 | 175.9 | 170.5 | 170.5 | 171.5 |
| 40° | 932.5 | 766.6 | 264.0 | 226.7 | 235.2 | 215.2 | 186.0 | 168.5 | 153.4 | 153.8 | 154.6 |
| 42.5° | 1000.0 | 779.7 | 230.7 | 230.5 | 244.3 | 218.3 | 185.8 | 158.8 | 145.7 | 154.6 | 162.8 |
| 45° | 1075.1 | 786.2 | 216.0 | 233.8 | 251.7 | 220.3 | 182.6 | 157.2 | 146.7 | 173.3 | 188.8 |
| 47.5° | 1161.4 | 782.5 | 207.8 | 235.0 | 253.5 | 220.3 | 179.0 | 161.0 | 153.6 | 200.7 | 218.7 |
| 50° | 1256.1 | 771.6 | 199.9 | 232.6 | 252.9 | 219.9 | 182.4 | 164.8 | 156.2 | 205.4 | 217.9 |
| 52.5° | 1367.4 | 762.4 | 191.5 | 227.5 | 248.7 | 217.7 | 186.4 | 163.2 | 148.1 | 186.8 | 195.5 |
| 55° | 1494.5 | 765.0 | 182.2 | 220.1 | 242.2 | 213.6 | 185.0 | 156.8 | 139.5 | 164.6 | 169.9 |
| 57.5° | 1656.8 | 795.8 | 171.1 | 210.8 | 233.2 | 206.6 | 180.0 | 153.8 | 137.0 | 149.3 | 152.4 |
| 60° | 1838.1 | 849.4 | 157.2 | 201.5 | 222.1 | 195.5 | 176.3 | 155.2 | 138.2 | 148.1 | 149.7 |
| 62.5° | 1971.1 | 880.5 | 145.3 | 187.8 | 207.0 | 183.2 | 171.5 | 157.0 | 141.3 | 152.2 | 151.8 |
| 65° | 2007.2 | 829.3 | 130.4 | 167.7 | 186.6 | 170.3 | 165.5 | 159.0 | 142.7 | 155.6 | 153.8 |
| 66° | 1956.6 | 774.1 | 123.9 | 158.4 | 176.3 | 164.0 | 162.6 | 158.8 | 142.1 | 156.0 | 153.0 |
| 67.5° | 1833.7 | 661.0 | 112.5 | 144.7 | 159.8 | 154.4 | 157.8 | 157.0 | 140.5 | 155.6 | 151.5 |
| 70° | 1495.5 | 451.0 | 96.3 | 120.5 | 133.0 | 136.0 | 148.7 | 150.7 | 135.4 | 148.7 | 139.5 |
| 72.5° | 1044.9 | 274.7 | 85.2 | 93.5 | 107.6 | 115.9 | 136.2 | 141.9 | 128.4 | 129.8 | 121.1 |
| 75° | 505.0 | 145.9 | 77.2 | 72.5 | 83.6 | 96.9 | 121.1 | 130.0 | 117.5 | 108.6 | 105.4 |
| 77.5° | 157.4 | 89.1 | 65.5 | 58.4 | 65.5 | 78.2 | 101.2 | 113.9 | 104.6 | 90.9 | 89.7 |
| 80° | 84.6 | 65.5 | 50.4 | 46.8 | 51.8 | 61.3 | 79.6 | 95.1 | 89.9 | 81.6 | 72.8 |
| 82.5° | 55.8 | 42.5 | 37.3 | 36.3 | 39.5 | 46.8 | 59.2 | 78.8 | 78.8 | 69.9 | 50.8 |
| 85° | 28.8 | 26.0 | 25.6 | 25.6 | 27.6 | 31.2 | 40.3 | 60.7 | 64.7 | 36.9 | 30.6 |
| 87.5° | 14.3 | 14.9 | 13.9 | 14.5 | 15.5 | 15.3 | 19.3 | 30.6 | 36.5 | 22.4 | 18.7 |
| 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)