

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: P266793

Luminaire Tested: **GAN-AF-03-LED-U-T4FT-7027-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T4FT-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10464.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

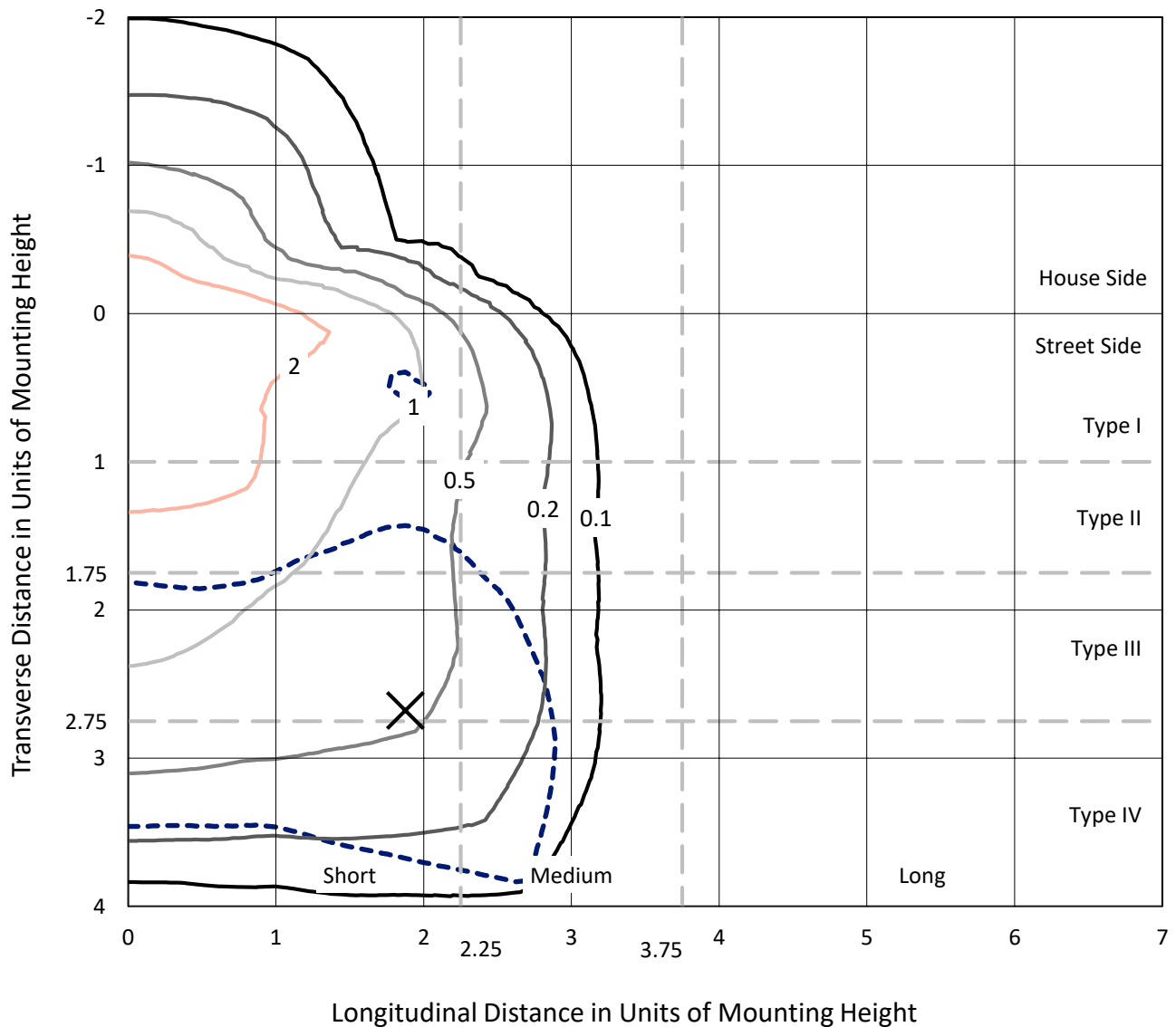


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

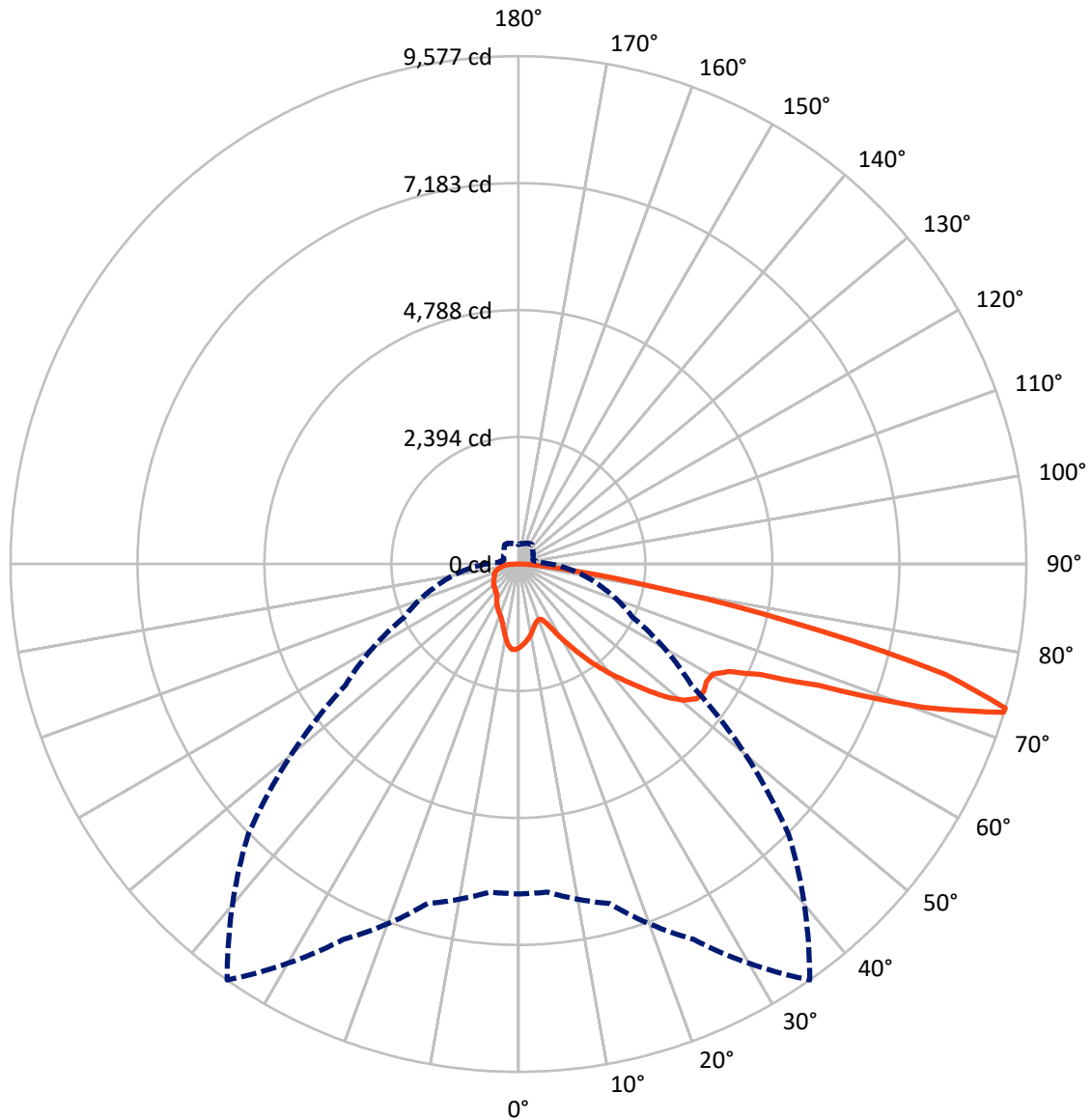


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1995.9 | 0.0 | 1995.9 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 8468.7 | 0.0 | 8468.7 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 10464.5 | 0.0 | 10464.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 143.0 | 1.4 |
| 10°-20° | 356.9 | 3.4 |
| 20°-30° | 576.9 | 5.5 |
| 30°-40° | 967.4 | 9.2 |
| 40°-50° | 1491.2 | 14.3 |
| 50°-60° | 2000.7 | 19.1 |
| 60°-70° | 2665.3 | 25.5 |
| 70°-80° | 2032.8 | 19.4 |
| 80°-90° | 230.4 | 2.2 |
| 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° | 10464.5 | 100.0 |
| 0°-180° | 10464.5 | 100.0 |

Coefficient of Utilization



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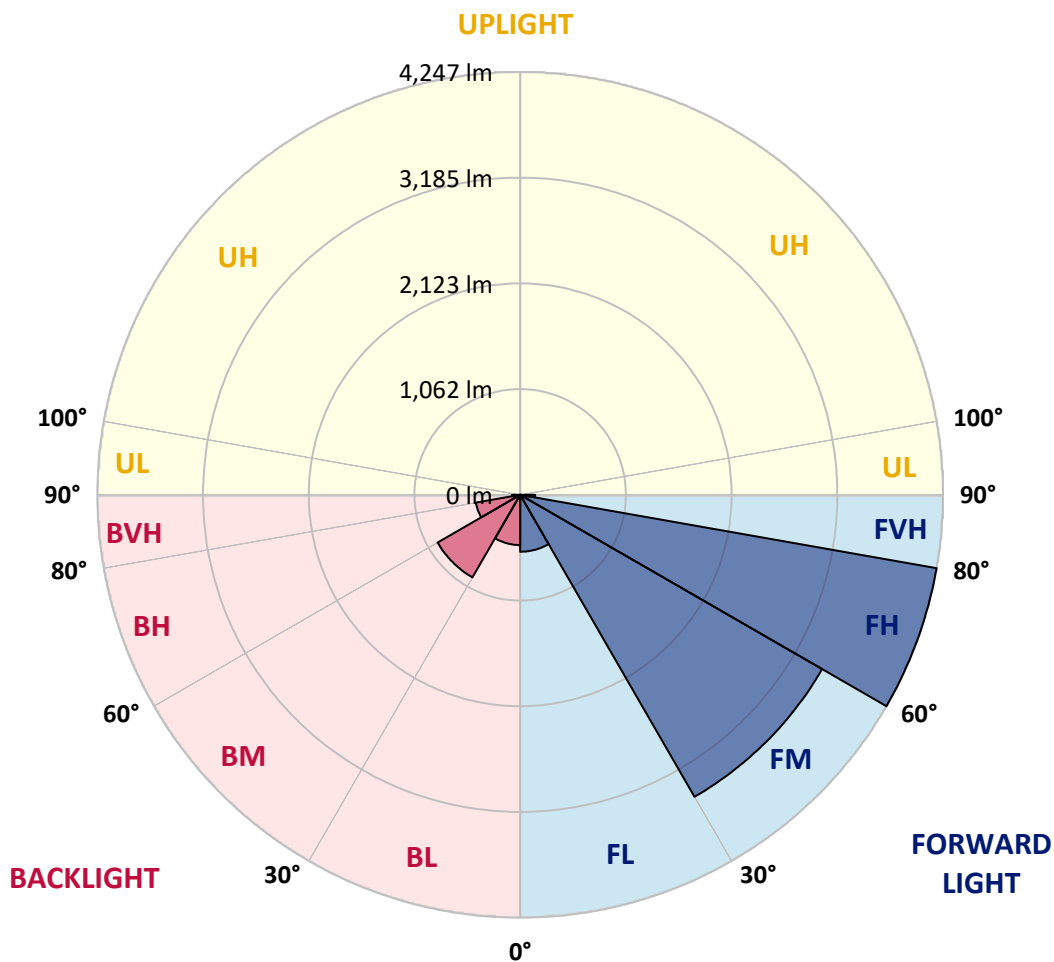
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 571.7 | 5.5 | | | |
| FM | (30°-60°) | 3501.5 | 33.5 | | | |
| FH | (60°-80°) | 4246.5 | 40.6 | | | G2/5000 |
| FVH | (80°-90°) | 148.9 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 505.1 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 957.8 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 451.6 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 81.5 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 |
| 2.5° | 1517.1 | 1520.1 | 1516.6 | 1521.1 | 1528.6 | 1536.7 | 1542.2 | 1550.2 | 1559.3 | 1571.9 | 1574.9 |
| 5° | 1445.7 | 1450.3 | 1450.3 | 1458.3 | 1473.0 | 1485.9 | 1498.1 | 1511.0 | 1530.3 | 1551.8 | 1560.4 |
| 7.5° | 1367.4 | 1369.8 | 1374.3 | 1386.4 | 1407.6 | 1426.1 | 1443.2 | 1464.3 | 1490.5 | 1519.2 | 1534.1 |
| 10° | 1272.9 | 1276.4 | 1283.5 | 1300.6 | 1329.1 | 1354.9 | 1379.3 | 1408.5 | 1441.7 | 1477.4 | 1496.4 |
| 12.5° | 1206.1 | 1205.0 | 1208.1 | 1220.6 | 1245.8 | 1276.9 | 1312.7 | 1349.8 | 1390.4 | 1432.2 | 1455.3 |
| 15° | 1183.4 | 1177.9 | 1166.4 | 1163.3 | 1176.9 | 1208.1 | 1249.3 | 1294.9 | 1343.8 | 1394.0 | 1422.6 |
| 17.5° | 1197.5 | 1188.0 | 1156.3 | 1133.2 | 1131.1 | 1154.9 | 1198.5 | 1249.8 | 1306.0 | 1367.4 | 1403.1 |
| 20° | 1286.0 | 1263.3 | 1185.5 | 1131.7 | 1113.1 | 1124.7 | 1162.9 | 1217.2 | 1283.5 | 1364.9 | 1410.6 |
| 22.5° | 1497.6 | 1464.3 | 1298.9 | 1199.0 | 1136.1 | 1122.2 | 1150.8 | 1208.6 | 1286.0 | 1396.0 | 1454.3 |
| 25° | 1805.6 | 1758.3 | 1494.1 | 1366.9 | 1237.2 | 1162.3 | 1168.9 | 1228.2 | 1321.6 | 1468.4 | 1538.7 |
| 27.5° | 2048.8 | 2018.1 | 1748.8 | 1603.6 | 1421.1 | 1270.9 | 1227.7 | 1277.4 | 1394.4 | 1586.9 | 1658.8 |
| 30° | 2193.5 | 2174.9 | 2021.1 | 1871.9 | 1655.8 | 1443.8 | 1340.2 | 1369.8 | 1508.6 | 1751.2 | 1810.5 |
| 32.5° | 2361.4 | 2350.2 | 2274.9 | 2137.7 | 1909.1 | 1670.8 | 1518.7 | 1508.1 | 1661.3 | 1948.8 | 1975.9 |
| 35° | 2535.2 | 2531.8 | 2487.4 | 2389.0 | 2180.9 | 1970.4 | 1755.3 | 1684.0 | 1827.7 | 2153.7 | 2136.7 |
| 37.5° | 2697.0 | 2691.1 | 2665.5 | 2608.0 | 2465.4 | 2291.9 | 1996.6 | 1864.3 | 2007.1 | 2349.7 | 2273.9 |
| 40° | 2994.9 | 2947.8 | 2859.8 | 2816.6 | 2752.9 | 2562.9 | 2188.0 | 2032.8 | 2193.0 | 2536.8 | 2392.5 |
| 42.5° | 3358.4 | 3281.5 | 3117.7 | 3058.4 | 3049.2 | 2776.4 | 2318.6 | 2196.0 | 2380.5 | 2722.1 | 2509.1 |
| 45° | 3644.2 | 3571.9 | 3430.6 | 3355.9 | 3389.0 | 2969.8 | 2449.8 | 2370.4 | 2573.5 | 2916.6 | 2629.2 |
| 47.5° | 3949.3 | 3835.8 | 3648.8 | 3671.5 | 3743.7 | 3152.8 | 2583.4 | 2557.8 | 2784.9 | 3134.2 | 2778.5 |
| 50° | 3960.4 | 3873.4 | 3791.6 | 3926.8 | 4039.3 | 3321.2 | 2750.8 | 2754.4 | 3043.7 | 3408.1 | 2977.0 |
| 52.5° | 3730.8 | 3712.2 | 3842.3 | 4054.9 | 4217.2 | 3454.3 | 2941.3 | 2957.3 | 3374.9 | 3722.7 | 3195.0 |
| 55° | 3650.4 | 3629.2 | 3779.4 | 4010.2 | 4241.3 | 3564.4 | 3147.8 | 3176.9 | 3775.4 | 4054.3 | 3407.6 |
| 57.5° | 3846.4 | 3799.7 | 3809.6 | 3989.1 | 4182.5 | 3684.9 | 3373.0 | 3431.7 | 4210.6 | 4344.4 | 3544.4 |
| 60° | 4394.1 | 4294.1 | 4104.0 | 4099.5 | 4214.2 | 3865.9 | 3633.3 | 3705.1 | 4662.9 | 4483.0 | 3491.1 |
| 62.5° | 5162.4 | 5062.4 | 4706.6 | 4474.9 | 4457.8 | 4164.5 | 3952.8 | 3971.9 | 4924.1 | 4295.1 | 3165.8 |
| 65° | 5994.1 | 5904.6 | 5507.1 | 5179.9 | 5022.2 | 4658.9 | 4324.3 | 4091.1 | 4838.8 | 3777.9 | 2597.0 |
| 67.5° | 7003.6 | 6907.6 | 6565.9 | 6263.9 | 6112.2 | 5456.8 | 4584.9 | 3976.9 | 4296.6 | 2926.7 | 1866.9 |
| 70° | 7709.8 | 7611.7 | 7477.0 | 7721.7 | 8093.1 | 6608.1 | 4618.6 | 3513.1 | 3209.1 | 1945.3 | 1123.6 |
| 72.5° | 6788.6 | 6742.9 | 6988.5 | 8019.3 | 9566.1 | 7306.6 | 4175.0 | 2557.8 | 1863.9 | 1032.7 | 650.3 |
| 73° | 6219.8 | 6209.7 | 6628.8 | 7810.8 | 9576.7 | 7199.1 | 3980.5 | 2377.5 | 1598.5 | 913.5 | 594.5 |
| 75° | 2808.6 | 2889.5 | 3808.2 | 5966.0 | 8320.2 | 5932.2 | 2801.5 | 1363.8 | 903.1 | 631.1 | 448.8 |
| 77.5° | 674.8 | 703.1 | 1191.5 | 2833.3 | 5254.4 | 3535.2 | 1269.3 | 674.4 | 577.4 | 445.6 | 327.6 |
| 80° | 287.5 | 297.0 | 458.9 | 1046.7 | 2473.9 | 1423.6 | 584.9 | 451.8 | 399.4 | 311.1 | 229.6 |
| 82.5° | 159.8 | 169.9 | 260.2 | 474.8 | 998.6 | 485.4 | 356.7 | 314.5 | 262.8 | 187.4 | 149.3 |
| 85° | 90.5 | 95.9 | 152.3 | 265.3 | 423.1 | 195.0 | 213.5 | 209.0 | 148.2 | 96.5 | 73.4 |
| 87.5° | 42.7 | 46.3 | 73.4 | 123.1 | 165.8 | 76.4 | 108.5 | 119.7 | 93.0 | 58.7 | 38.2 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 | 1579.4 |
| 2.5° | 1578.4 | 1587.5 | 1598.1 | 1603.6 | 1608.5 | 1614.7 | 1620.6 | 1620.6 | 1621.6 | 1622.1 |
| 5° | 1567.4 | 1586.0 | 1602.5 | 1609.6 | 1611.1 | 1611.1 | 1609.6 | 1601.6 | 1594.5 | 1597.5 |
| 7.5° | 1544.2 | 1571.3 | 1585.5 | 1583.0 | 1563.9 | 1541.8 | 1523.2 | 1500.4 | 1489.0 | 1487.0 |
| 10° | 1511.0 | 1542.2 | 1544.7 | 1519.7 | 1472.4 | 1425.2 | 1385.9 | 1347.7 | 1329.8 | 1325.2 |
| 12.5° | 1474.4 | 1503.0 | 1487.0 | 1435.2 | 1359.3 | 1290.4 | 1240.6 | 1202.0 | 1185.0 | 1180.5 |
| 15° | 1444.7 | 1464.3 | 1423.6 | 1342.2 | 1246.8 | 1173.8 | 1132.8 | 1104.0 | 1092.0 | 1088.4 |
| 17.5° | 1429.2 | 1433.2 | 1358.9 | 1248.7 | 1147.2 | 1086.5 | 1060.8 | 1047.2 | 1042.8 | 1040.1 |
| 20° | 1436.7 | 1408.5 | 1297.1 | 1161.9 | 1065.8 | 1023.1 | 1017.2 | 1013.6 | 1012.6 | 1011.1 |
| 22.5° | 1474.4 | 1401.0 | 1240.2 | 1079.5 | 994.6 | 975.9 | 980.9 | 980.4 | 979.4 | 978.4 |
| 25° | 1541.8 | 1407.6 | 1185.0 | 1001.0 | 934.6 | 930.6 | 939.6 | 939.6 | 935.8 | 935.8 |
| 27.5° | 1630.8 | 1421.1 | 1123.2 | 926.6 | 880.3 | 880.9 | 888.0 | 886.0 | 881.4 | 878.5 |
| 30° | 1739.2 | 1429.7 | 1050.7 | 859.8 | 829.7 | 827.7 | 829.7 | 821.1 | 807.5 | 806.6 |
| 32.5° | 1850.2 | 1419.1 | 966.8 | 800.5 | 775.9 | 771.4 | 769.8 | 757.8 | 742.2 | 737.7 |
| 35° | 1950.8 | 1380.4 | 881.4 | 753.3 | 724.7 | 714.6 | 721.6 | 717.6 | 703.6 | 700.0 |
| 37.5° | 2024.2 | 1308.7 | 804.5 | 711.5 | 687.9 | 685.4 | 690.0 | 691.4 | 674.8 | 671.4 |
| 40° | 2073.4 | 1211.0 | 738.6 | 676.5 | 680.9 | 671.4 | 656.3 | 645.7 | 640.8 | 639.2 |
| 42.5° | 2113.2 | 1109.5 | 683.4 | 659.9 | 682.4 | 654.8 | 622.2 | 605.1 | 614.1 | 618.2 |
| 45° | 2158.8 | 1010.6 | 637.2 | 639.2 | 674.8 | 635.7 | 598.5 | 581.9 | 585.4 | 586.5 |
| 47.5° | 2221.7 | 890.0 | 587.4 | 606.0 | 649.7 | 622.6 | 583.9 | 560.4 | 543.7 | 536.2 |
| 50° | 2308.6 | 747.2 | 535.7 | 568.8 | 625.1 | 613.1 | 561.4 | 536.2 | 505.6 | 498.5 |
| 52.5° | 2368.9 | 614.1 | 493.0 | 537.6 | 603.0 | 594.0 | 543.3 | 510.5 | 478.3 | 472.4 |
| 55° | 2336.2 | 510.1 | 455.8 | 503.1 | 573.8 | 570.3 | 528.2 | 484.5 | 459.4 | 454.4 |
| 57.5° | 2172.9 | 444.2 | 427.1 | 470.4 | 538.3 | 550.2 | 508.0 | 462.3 | 444.2 | 440.7 |
| 60° | 1861.4 | 403.0 | 409.1 | 448.3 | 509.1 | 530.2 | 488.0 | 450.3 | 438.3 | 435.7 |
| 62.5° | 1444.2 | 375.4 | 395.4 | 432.2 | 486.4 | 516.0 | 476.9 | 448.8 | 444.2 | 441.2 |
| 65° | 1034.7 | 353.3 | 380.9 | 416.1 | 465.9 | 503.1 | 472.9 | 446.7 | 447.7 | 445.2 |
| 67.5° | 703.1 | 333.7 | 363.4 | 397.9 | 445.6 | 491.5 | 467.4 | 439.7 | 452.2 | 449.2 |
| 70° | 492.0 | 314.5 | 342.8 | 375.0 | 420.5 | 475.5 | 457.2 | 429.2 | 428.1 | 416.1 |
| 72.5° | 383.9 | 289.4 | 314.5 | 342.8 | 388.4 | 452.7 | 437.1 | 405.6 | 389.0 | 376.4 |
| 73° | 366.4 | 283.4 | 307.5 | 335.6 | 381.4 | 447.3 | 431.6 | 398.9 | 380.4 | 368.8 |
| 75° | 303.0 | 257.3 | 279.5 | 304.5 | 351.2 | 421.1 | 404.5 | 369.4 | 345.8 | 338.8 |
| 77.5° | 238.2 | 220.2 | 241.3 | 263.8 | 309.6 | 382.9 | 364.4 | 330.7 | 317.6 | 311.5 |
| 80° | 176.3 | 182.4 | 201.0 | 221.2 | 268.4 | 342.3 | 325.6 | 291.9 | 350.2 | 335.6 |
| 82.5° | 124.1 | 138.2 | 155.2 | 173.4 | 225.1 | 302.5 | 282.3 | 247.8 | 256.2 | 213.1 |
| 85° | 73.4 | 90.5 | 106.4 | 122.1 | 162.4 | 250.7 | 233.2 | 197.4 | 161.9 | 154.2 |
| 87.5° | 42.7 | 50.2 | 54.7 | 70.8 | 111.6 | 189.0 | 164.3 | 146.2 | 83.9 | 56.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)