

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: P194690

Luminaire Tested: **GAN-AF-02-LED-U-T2-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T2-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7874 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

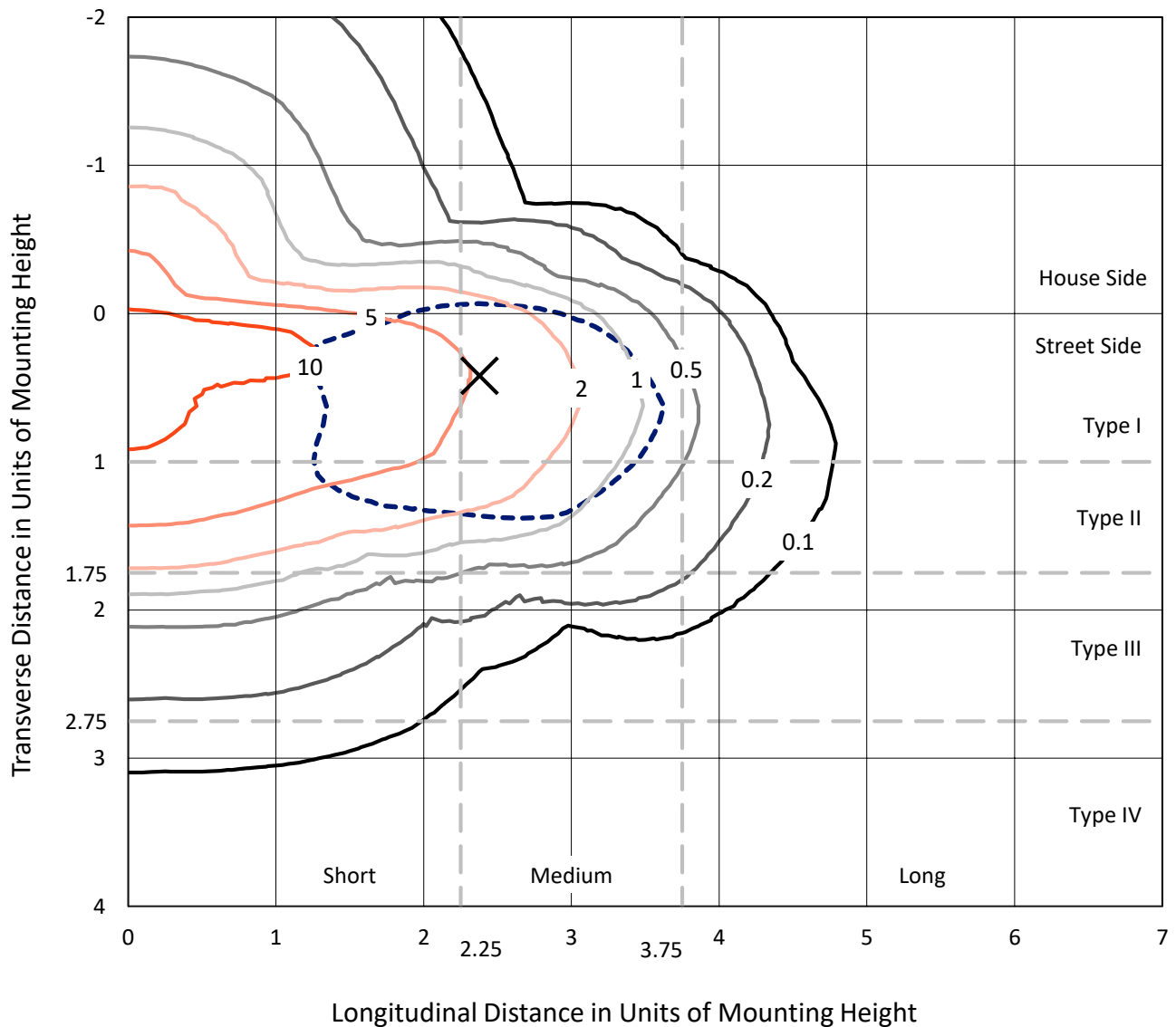
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

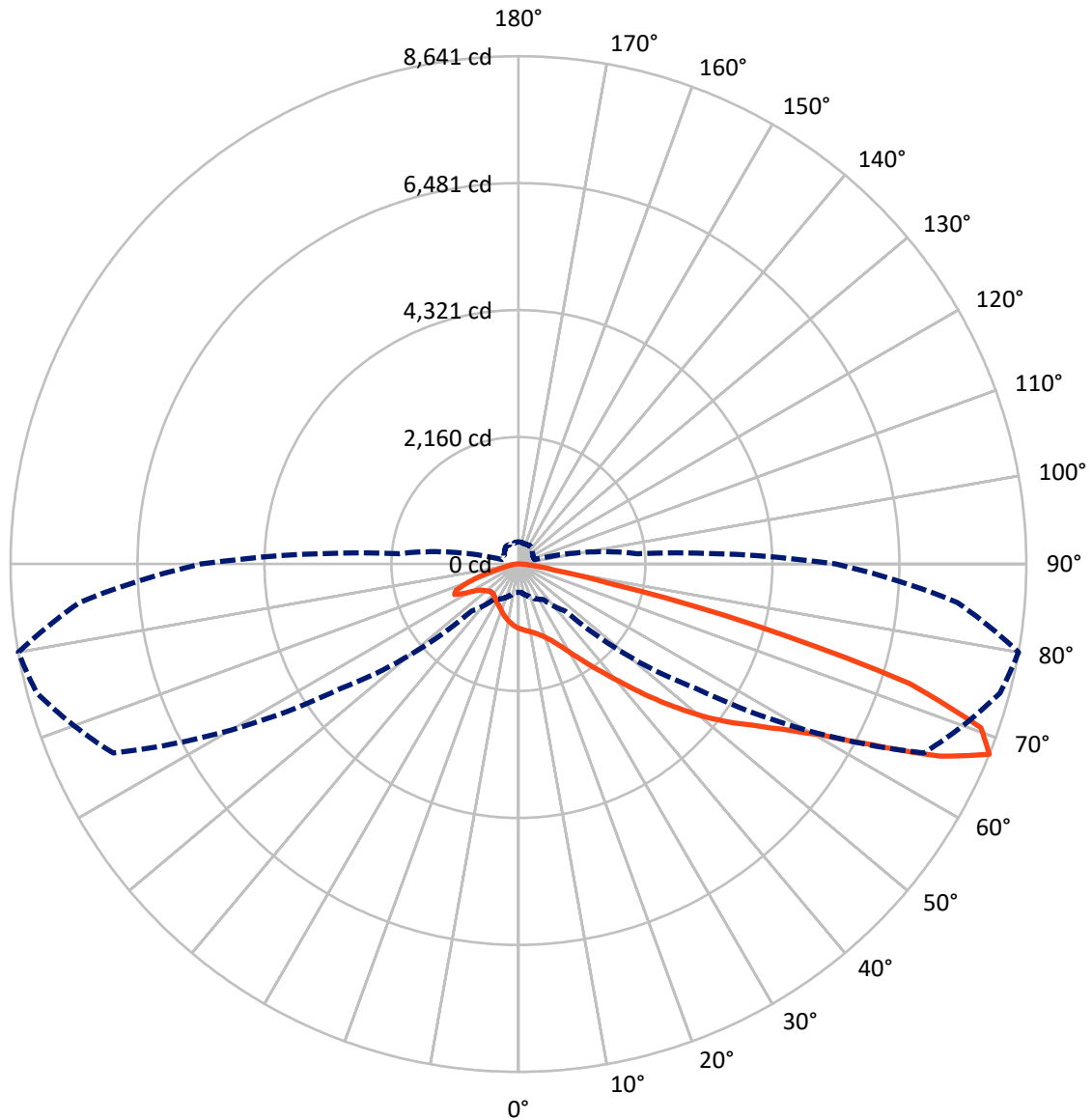
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1450.1 | 0.0 | 1450.1 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 6423.9 | 0.0 | 6423.9 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 7874.0 | 0.0 | 7874.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.9 | 1.3 |
| 10°-20° | 290.7 | 3.7 |
| 20°-30° | 481.2 | 6.1 |
| 30°-40° | 787.1 | 10.0 |
| 40°-50° | 1270.8 | 16.1 |
| 50°-60° | 1834.6 | 23.3 |
| 60°-70° | 2024.6 | 25.7 |
| 70°-80° | 933.2 | 11.9 |
| 80°-90° | 150.9 | 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° | 7874.0 | 100.0 |
| 0°-180° | 7874.0 | 100.0 |



REPORT NUMBER: P194690

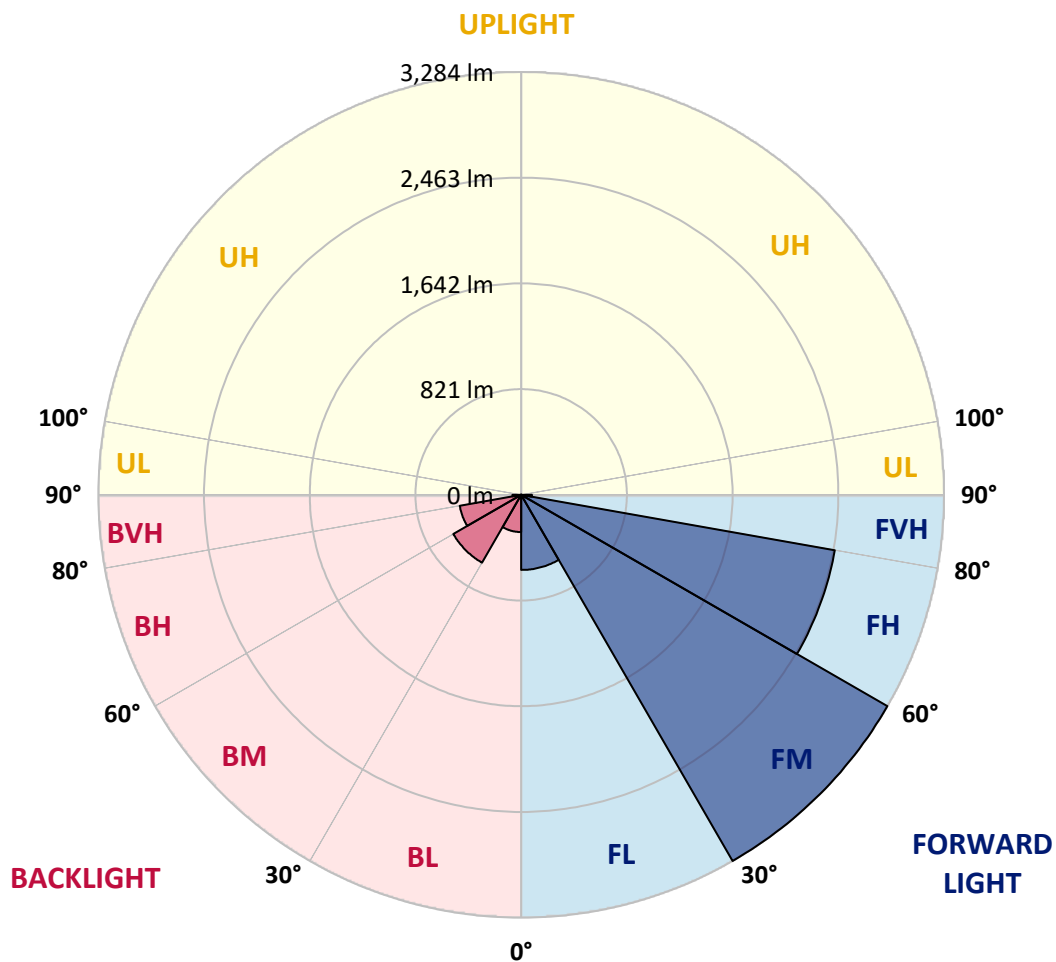
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 583.4 | 7.4 | | | |
| FM | (30°-60°) | 3284.1 | 41.7 | | | |
| FH | (60°-80°) | 2473.4 | 31.4 | | | G2/5000 |
| FVH | (80°-90°) | 83.0 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 289.3 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 608.4 | 7.7 | B1/1000 | | |
| BH | (60°-80°) | 484.4 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 68.0 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 |
| 2.5° | 1196.7 | 1189.7 | 1190.8 | 1188.9 | 1183.1 | 1173.0 | 1162.2 | 1142.4 | 1121.8 | 1111.0 | 1102.5 |
| 5° | 1296.7 | 1294.7 | 1292.0 | 1285.8 | 1271.1 | 1250.1 | 1224.2 | 1189.3 | 1151.7 | 1131.9 | 1112.9 |
| 7.5° | 1371.5 | 1370.3 | 1366.8 | 1363.0 | 1348.6 | 1323.4 | 1284.3 | 1234.6 | 1180.0 | 1152.8 | 1123.4 |
| 10° | 1377.7 | 1379.6 | 1382.3 | 1392.8 | 1394.7 | 1381.2 | 1341.2 | 1281.2 | 1209.4 | 1174.6 | 1137.0 |
| 12.5° | 1325.0 | 1329.2 | 1339.7 | 1366.4 | 1394.7 | 1411.4 | 1390.9 | 1330.0 | 1243.9 | 1201.7 | 1154.0 |
| 15° | 1255.2 | 1257.5 | 1270.3 | 1307.1 | 1357.9 | 1409.5 | 1428.9 | 1383.9 | 1288.5 | 1236.6 | 1179.6 |
| 17.5° | 1225.3 | 1226.5 | 1235.4 | 1259.8 | 1307.1 | 1380.8 | 1450.2 | 1442.4 | 1343.2 | 1280.0 | 1211.0 |
| 20° | 1210.2 | 1212.9 | 1225.7 | 1249.8 | 1279.6 | 1344.0 | 1453.3 | 1505.6 | 1408.3 | 1334.3 | 1250.5 |
| 22.5° | 1253.2 | 1252.1 | 1256.7 | 1268.8 | 1294.0 | 1332.7 | 1450.9 | 1570.7 | 1491.3 | 1404.0 | 1302.1 |
| 25° | 1353.6 | 1357.9 | 1349.8 | 1336.2 | 1344.3 | 1371.5 | 1463.4 | 1641.3 | 1595.1 | 1493.6 | 1369.5 |
| 27.5° | 1496.7 | 1492.4 | 1480.4 | 1448.6 | 1432.0 | 1443.6 | 1504.4 | 1717.3 | 1724.2 | 1611.4 | 1458.7 |
| 30° | 1639.3 | 1635.9 | 1624.2 | 1585.5 | 1551.3 | 1541.7 | 1584.3 | 1804.5 | 1878.1 | 1752.9 | 1568.0 |
| 32.5° | 1787.4 | 1783.5 | 1772.7 | 1733.9 | 1692.8 | 1670.4 | 1697.9 | 1905.3 | 2059.5 | 1921.9 | 1696.7 |
| 35° | 1970.0 | 1962.6 | 1939.8 | 1885.9 | 1845.6 | 1828.1 | 1840.9 | 2032.0 | 2268.9 | 2122.0 | 1852.9 |
| 37.5° | 2141.7 | 2153.0 | 2129.7 | 2055.3 | 2002.9 | 1996.7 | 2011.1 | 2186.7 | 2494.5 | 2345.6 | 2032.4 |
| 40° | 2314.2 | 2316.2 | 2295.2 | 2234.4 | 2180.5 | 2170.4 | 2206.5 | 2374.3 | 2760.8 | 2613.1 | 2250.7 |
| 42.5° | 2492.5 | 2496.4 | 2461.1 | 2404.9 | 2365.4 | 2367.3 | 2408.4 | 2594.1 | 3066.3 | 2928.3 | 2501.8 |
| 45° | 2703.8 | 2709.6 | 2670.9 | 2597.2 | 2561.2 | 2633.6 | 2616.6 | 2840.6 | 3401.2 | 3286.4 | 2790.3 |
| 47.5° | 2924.8 | 2933.7 | 2904.2 | 2835.2 | 2790.3 | 2889.9 | 2824.8 | 3113.9 | 3761.7 | 3670.6 | 3107.0 |
| 50° | 3045.3 | 3058.1 | 3086.8 | 3081.8 | 3072.1 | 3055.4 | 3057.0 | 3407.0 | 4133.4 | 4070.6 | 3432.6 |
| 52.5° | 2980.6 | 2980.2 | 3084.9 | 3212.0 | 3347.7 | 3357.8 | 3339.9 | 3715.9 | 4480.8 | 4461.8 | 3739.2 |
| 55° | 2684.4 | 2704.6 | 2863.1 | 3109.3 | 3479.9 | 3711.3 | 3764.0 | 4069.9 | 4821.9 | 4844.0 | 4050.5 |
| 57.5° | 2191.3 | 2208.0 | 2422.0 | 2765.1 | 3301.6 | 3921.4 | 4367.2 | 4584.3 | 5203.3 | 5306.4 | 4464.9 |
| 60° | 1486.2 | 1506.4 | 1733.2 | 2145.2 | 2821.7 | 3804.3 | 4941.3 | 5502.2 | 5660.0 | 5894.5 | 5046.3 |
| 62.5° | 873.4 | 891.6 | 1076.5 | 1353.3 | 1986.7 | 3260.5 | 5193.2 | 6808.2 | 6385.3 | 6781.8 | 5933.3 |
| 65° | 601.2 | 613.6 | 703.6 | 842.3 | 1141.6 | 2196.0 | 4880.8 | 7709.8 | 7501.3 | 7881.2 | 6961.7 |
| 67.5° | 483.8 | 482.2 | 553.6 | 648.1 | 735.0 | 1132.3 | 3690.7 | 7607.9 | 8482.8 | 8641.3 | 7495.5 |
| 70° | 398.5 | 396.9 | 445.4 | 523.7 | 587.3 | 637.7 | 2010.3 | 6420.1 | 8282.8 | 8347.1 | 7003.9 |
| 72.5° | 333.4 | 334.9 | 365.9 | 424.1 | 481.8 | 480.3 | 883.4 | 4516.4 | 6515.9 | 6960.9 | 5583.2 |
| 75° | 281.4 | 282.2 | 302.7 | 343.8 | 391.1 | 386.9 | 479.1 | 2446.8 | 3787.7 | 4097.4 | 3094.9 |
| 77.5° | 239.6 | 240.3 | 253.5 | 276.4 | 310.1 | 308.6 | 349.7 | 1057.1 | 1580.0 | 1560.6 | 1058.7 |
| 80° | 213.6 | 213.6 | 219.8 | 224.1 | 242.7 | 235.7 | 259.3 | 507.8 | 667.9 | 616.7 | 422.5 |
| 82.5° | 167.5 | 168.2 | 206.2 | 204.7 | 191.1 | 182.2 | 182.2 | 299.3 | 353.9 | 327.2 | 247.3 |
| 85° | 94.2 | 93.8 | 133.0 | 160.5 | 168.2 | 128.3 | 127.1 | 167.5 | 192.7 | 169.8 | 119.8 |
| 87.5° | 40.3 | 41.1 | 61.6 | 71.3 | 95.4 | 79.9 | 78.7 | 86.4 | 98.1 | 84.9 | 55.4 |
| 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° | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 | 1093.9 |
| 2.5° | 1094.3 | 1084.2 | 1062.1 | 1034.6 | 1009.8 | 993.5 | 978.8 | 957.5 | 958.6 | 943.9 | 933.1 |
| 5° | 1093.5 | 1072.6 | 1021.4 | 960.6 | 902.0 | 859.8 | 828.0 | 799.3 | 792.3 | 778.8 | 770.6 |
| 7.5° | 1094.3 | 1060.2 | 974.1 | 876.8 | 804.4 | 750.9 | 723.7 | 708.6 | 705.1 | 700.5 | 700.9 |
| 10° | 1097.0 | 1049.0 | 922.2 | 798.5 | 722.6 | 687.3 | 680.7 | 685.4 | 690.8 | 692.3 | 692.7 |
| 12.5° | 1103.2 | 1038.9 | 865.2 | 728.8 | 671.4 | 660.5 | 671.8 | 687.7 | 698.1 | 703.2 | 702.8 |
| 15° | 1117.2 | 1031.1 | 810.6 | 674.1 | 643.1 | 648.9 | 669.8 | 692.3 | 707.4 | 714.4 | 714.8 |
| 17.5° | 1132.3 | 1019.9 | 754.4 | 632.2 | 622.2 | 636.9 | 662.9 | 689.2 | 707.8 | 715.6 | 717.1 |
| 20° | 1152.1 | 1005.9 | 695.4 | 600.8 | 602.4 | 619.1 | 643.5 | 669.8 | 690.4 | 697.0 | 700.1 |
| 22.5° | 1178.0 | 990.8 | 643.9 | 575.3 | 579.9 | 592.7 | 611.7 | 634.6 | 652.4 | 655.5 | 658.2 |
| 25° | 1212.9 | 974.5 | 602.8 | 552.0 | 553.9 | 561.3 | 574.1 | 587.7 | 600.1 | 596.6 | 599.3 |
| 27.5° | 1259.8 | 960.6 | 572.2 | 530.7 | 527.2 | 528.7 | 535.3 | 539.6 | 546.2 | 536.5 | 537.7 |
| 30° | 1314.9 | 945.5 | 548.5 | 512.1 | 502.4 | 499.7 | 501.2 | 503.5 | 508.6 | 495.4 | 493.5 |
| 32.5° | 1378.8 | 927.2 | 526.4 | 495.8 | 482.2 | 476.8 | 477.6 | 483.8 | 503.2 | 495.0 | 490.8 |
| 35° | 1453.3 | 906.7 | 503.2 | 478.0 | 468.7 | 460.9 | 460.1 | 479.5 | 537.3 | 532.2 | 528.4 |
| 37.5° | 1540.5 | 886.2 | 479.9 | 457.8 | 458.6 | 450.1 | 447.3 | 469.4 | 543.9 | 524.1 | 521.4 |
| 40° | 1651.4 | 875.3 | 460.1 | 436.5 | 446.2 | 445.0 | 439.6 | 450.8 | 500.4 | 464.4 | 459.7 |
| 42.5° | 1788.6 | 876.8 | 445.4 | 413.6 | 431.4 | 443.9 | 435.3 | 435.7 | 453.5 | 426.4 | 422.1 |
| 45° | 1958.0 | 895.1 | 434.9 | 395.4 | 414.8 | 442.7 | 433.8 | 427.6 | 429.1 | 414.8 | 412.5 |
| 47.5° | 2155.7 | 932.7 | 427.6 | 380.3 | 398.9 | 438.4 | 433.4 | 425.2 | 421.8 | 414.0 | 412.1 |
| 50° | 2375.5 | 987.3 | 422.1 | 365.9 | 384.5 | 431.4 | 433.8 | 422.9 | 419.0 | 415.9 | 414.8 |
| 52.5° | 2591.4 | 1049.7 | 414.0 | 353.5 | 373.3 | 422.9 | 434.9 | 420.6 | 416.3 | 414.0 | 412.8 |
| 55° | 2832.1 | 1127.7 | 401.6 | 343.1 | 364.0 | 412.1 | 434.9 | 417.1 | 412.5 | 412.8 | 412.5 |
| 57.5° | 3157.3 | 1253.6 | 386.9 | 334.1 | 352.8 | 398.9 | 427.6 | 413.2 | 407.4 | 407.8 | 408.2 |
| 60° | 3665.5 | 1475.8 | 369.0 | 325.2 | 338.8 | 383.4 | 417.5 | 404.7 | 398.9 | 400.4 | 400.8 |
| 62.5° | 4412.9 | 1801.8 | 345.8 | 312.1 | 324.1 | 366.7 | 403.5 | 393.8 | 388.0 | 391.9 | 391.9 |
| 65° | 5189.8 | 2089.4 | 317.1 | 295.4 | 308.6 | 348.5 | 386.1 | 380.3 | 374.5 | 383.4 | 383.0 |
| 67.5° | 5398.7 | 2025.0 | 288.4 | 277.2 | 293.1 | 328.3 | 365.2 | 362.1 | 359.0 | 374.5 | 373.7 |
| 70° | 4795.9 | 1625.8 | 262.0 | 258.6 | 276.0 | 306.6 | 342.7 | 342.7 | 340.7 | 352.4 | 349.7 |
| 72.5° | 3653.9 | 1152.8 | 236.8 | 238.8 | 256.6 | 283.0 | 318.3 | 321.0 | 317.9 | 323.7 | 321.4 |
| 75° | 1956.0 | 659.8 | 211.7 | 217.1 | 232.6 | 258.9 | 291.1 | 293.8 | 291.9 | 291.5 | 292.7 |
| 77.5° | 650.1 | 322.5 | 185.3 | 193.8 | 207.4 | 234.1 | 262.8 | 267.1 | 262.4 | 261.7 | 261.3 |
| 80° | 289.6 | 202.7 | 156.2 | 167.5 | 179.5 | 205.8 | 233.0 | 236.5 | 231.4 | 238.4 | 229.5 |
| 82.5° | 186.1 | 133.3 | 125.2 | 137.6 | 149.2 | 177.5 | 203.1 | 203.9 | 199.2 | 231.4 | 197.3 |
| 85° | 90.3 | 82.6 | 94.2 | 105.4 | 115.5 | 139.6 | 168.2 | 168.6 | 157.0 | 143.0 | 138.0 |
| 87.5° | 45.0 | 48.1 | 62.8 | 72.9 | 77.9 | 95.7 | 122.5 | 120.2 | 115.1 | 104.7 | 96.5 |
| 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)