

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: P191369

Luminaire Tested: **GAN-AF-01-LED-U-T2-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191369
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-01-LED-U-T2-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6256.4 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

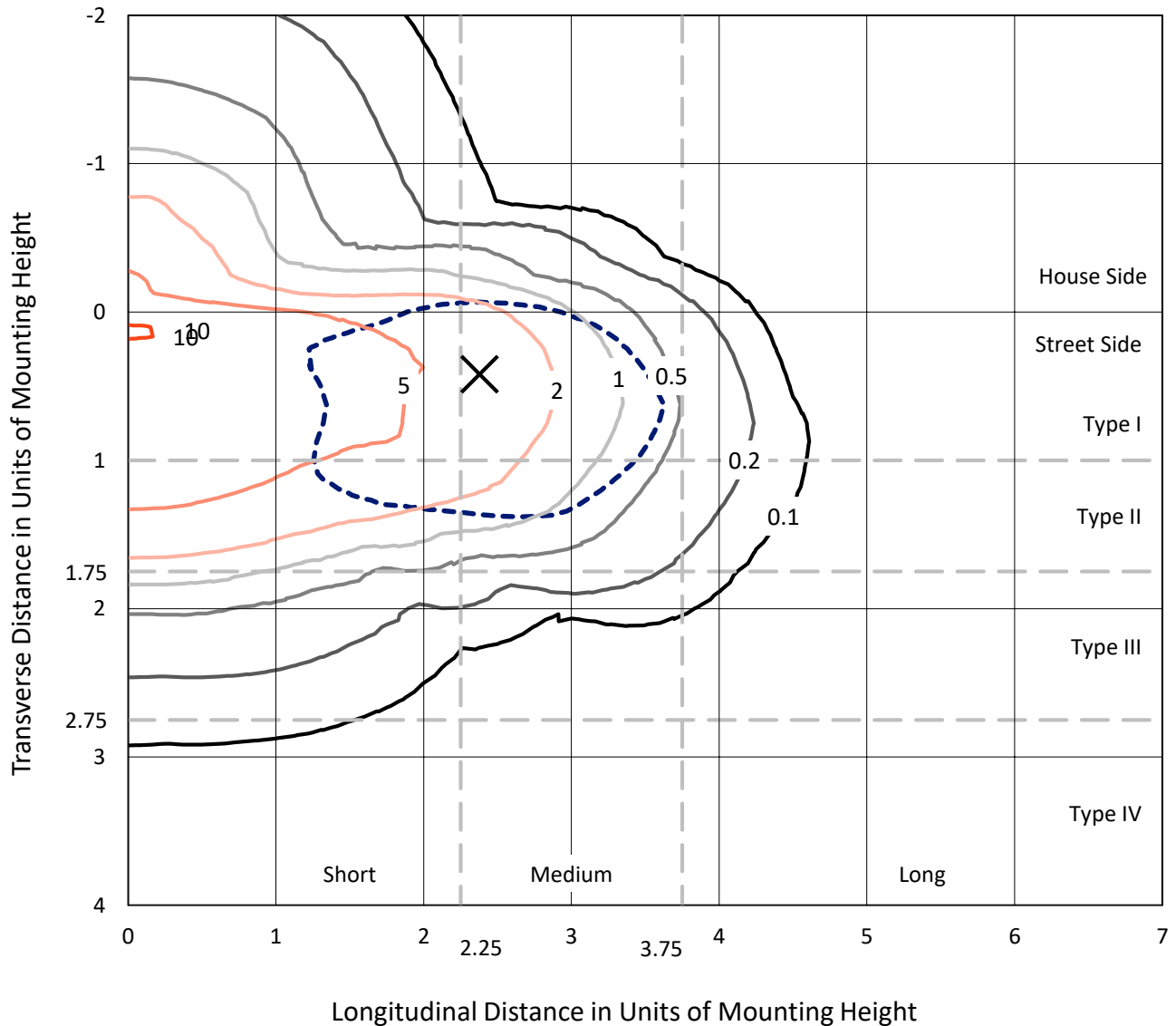


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

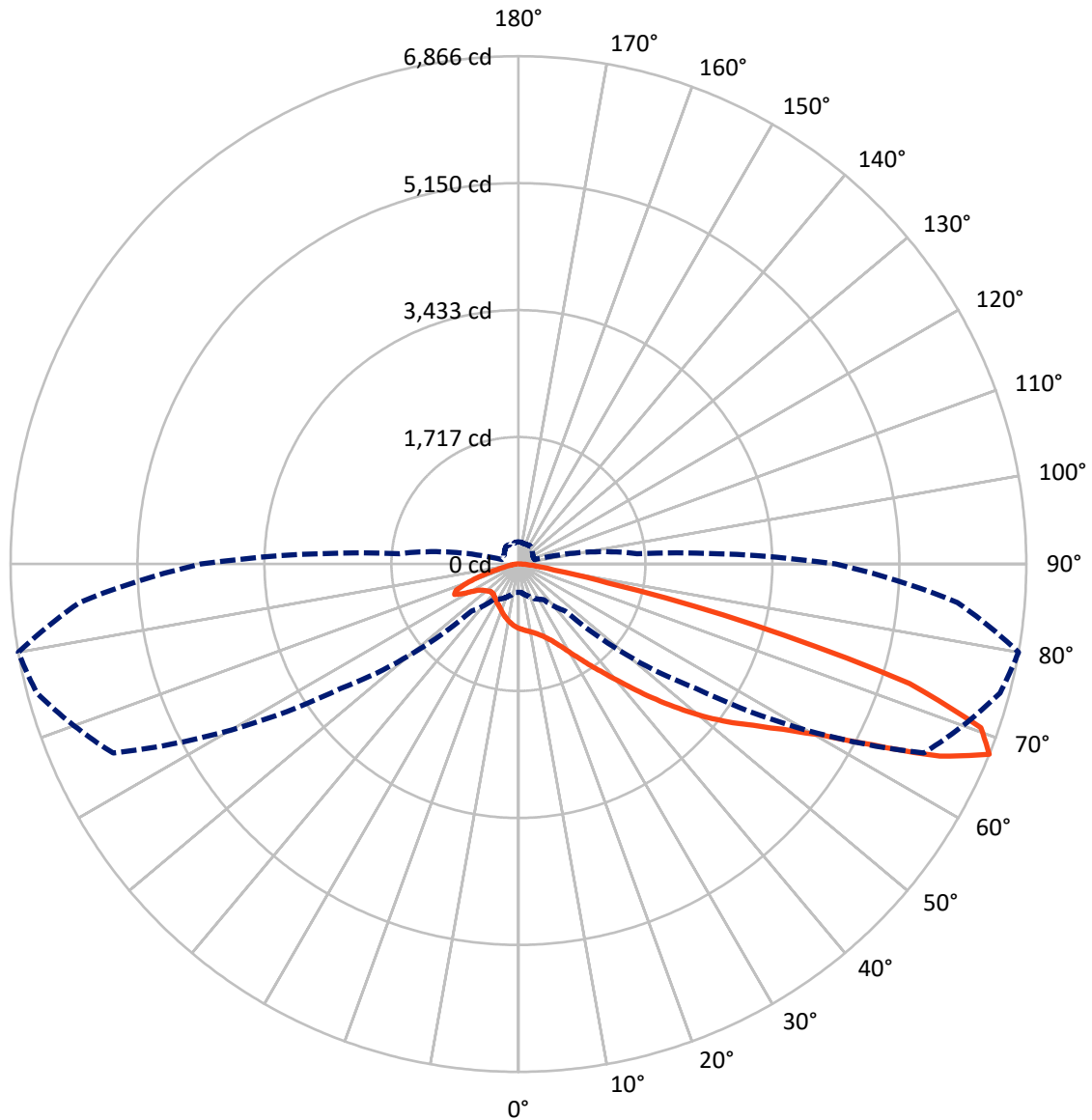


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - Full Cutoff

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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 | 1152.2 | 0.0 | 1152.2 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 5104.2 | 0.0 | 5104.2 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 6256.4 | 0.0 | 6256.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.2 | 1.3 |
| 10°-20° | 231.0 | 3.7 |
| 20°-30° | 382.3 | 6.1 |
| 30°-40° | 625.4 | 10.0 |
| 40°-50° | 1009.7 | 16.1 |
| 50°-60° | 1457.7 | 23.3 |
| 60°-70° | 1608.7 | 25.7 |
| 70°-80° | 741.5 | 11.9 |
| 80°-90° | 119.9 | 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° | 6256.4 | 100.0 |
| 0°-180° | 6256.4 | 100.0 |



REPORT NUMBER: P191369

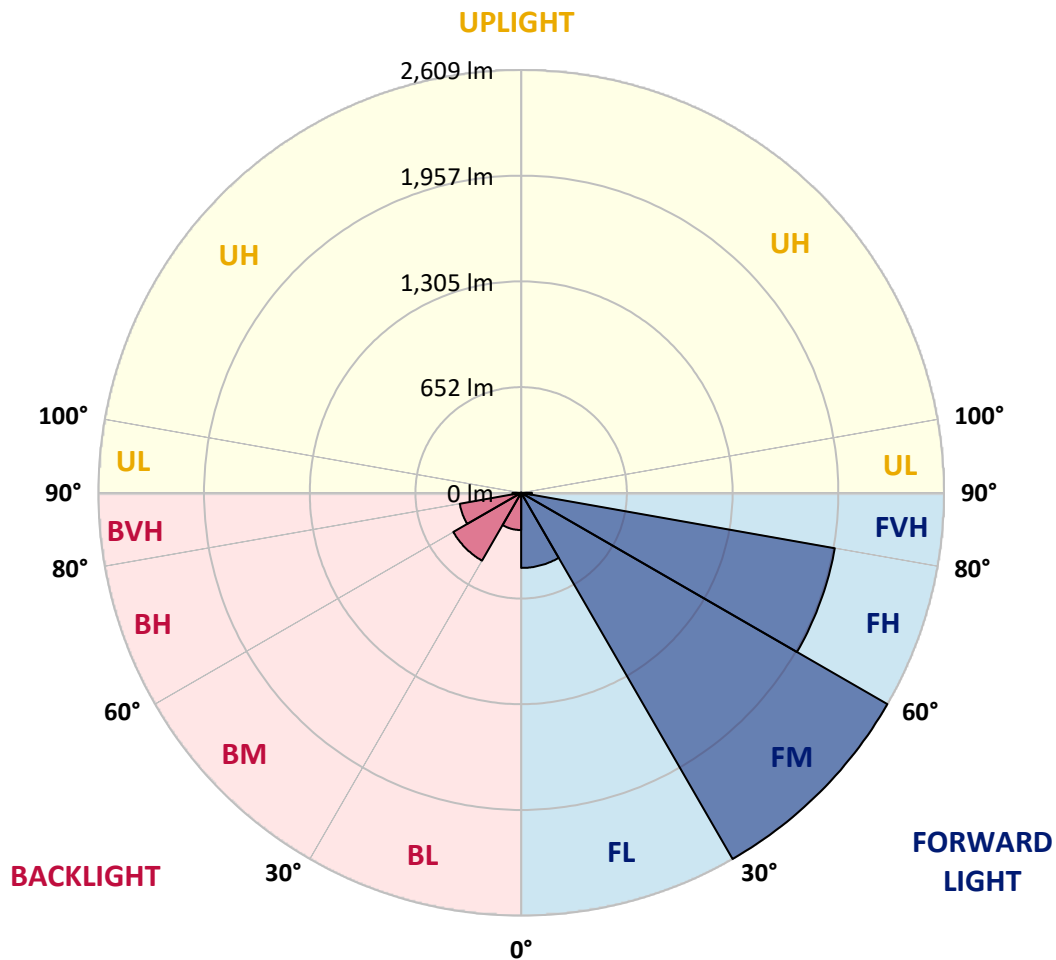
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 463.6 | 7.4 | | | |
| FM | (30°-60°) | 2609.4 | 41.7 | | | |
| FH | (60°-80°) | 1965.3 | 31.4 | | | G2/5000 |
| FVH | (80°-90°) | 65.9 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 229.9 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 483.4 | 7.7 | B1/1000 | | |
| BH | (60°-80°) | 384.9 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 54.0 | 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





REPORT NUMBER: P191369

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 |
| 2.5° | 950.8 | 945.3 | 946.2 | 944.7 | 940.0 | 932.0 | 923.4 | 907.7 | 891.4 | 882.7 | 876.0 |
| 5° | 1030.3 | 1028.8 | 1026.5 | 1021.6 | 1010.0 | 993.3 | 972.7 | 945.0 | 915.1 | 899.4 | 884.2 |
| 7.5° | 1089.7 | 1088.8 | 1086.1 | 1083.0 | 1071.5 | 1051.5 | 1020.4 | 981.0 | 937.5 | 916.1 | 892.6 |
| 10° | 1094.7 | 1096.2 | 1098.3 | 1106.6 | 1108.2 | 1097.4 | 1065.7 | 1017.9 | 961.0 | 933.2 | 903.4 |
| 12.5° | 1052.7 | 1056.2 | 1064.5 | 1085.8 | 1108.2 | 1121.5 | 1105.1 | 1056.8 | 988.4 | 954.8 | 917.0 |
| 15° | 997.3 | 999.2 | 1009.3 | 1038.6 | 1078.9 | 1119.9 | 1135.3 | 1099.6 | 1023.8 | 982.5 | 937.2 |
| 17.5° | 973.6 | 974.6 | 981.6 | 1001.1 | 1038.6 | 1097.1 | 1152.3 | 1146.1 | 1067.2 | 1017.0 | 962.2 |
| 20° | 961.6 | 963.7 | 974.0 | 993.0 | 1016.7 | 1067.9 | 1154.7 | 1196.3 | 1119.0 | 1060.2 | 993.6 |
| 22.5° | 995.7 | 994.8 | 998.6 | 1008.1 | 1028.2 | 1059.0 | 1152.9 | 1248.0 | 1184.9 | 1115.6 | 1034.6 |
| 25° | 1075.5 | 1078.9 | 1072.5 | 1061.7 | 1068.2 | 1089.7 | 1162.7 | 1304.1 | 1267.4 | 1186.7 | 1088.2 |
| 27.5° | 1189.2 | 1185.8 | 1176.3 | 1151.0 | 1137.7 | 1147.0 | 1195.3 | 1364.5 | 1370.0 | 1280.4 | 1159.0 |
| 30° | 1302.5 | 1299.8 | 1290.6 | 1259.8 | 1232.7 | 1225.0 | 1258.8 | 1433.8 | 1492.3 | 1392.8 | 1245.9 |
| 32.5° | 1420.2 | 1417.1 | 1408.5 | 1377.7 | 1345.1 | 1327.2 | 1349.1 | 1513.9 | 1636.4 | 1527.1 | 1348.1 |
| 35° | 1565.3 | 1559.4 | 1541.3 | 1498.4 | 1466.4 | 1452.6 | 1462.7 | 1614.5 | 1802.7 | 1686.0 | 1472.2 |
| 37.5° | 1701.8 | 1710.7 | 1692.2 | 1633.0 | 1591.5 | 1586.5 | 1598.0 | 1737.5 | 1982.0 | 1863.7 | 1614.8 |
| 40° | 1838.8 | 1840.3 | 1823.7 | 1775.3 | 1732.6 | 1724.5 | 1753.1 | 1886.5 | 2193.6 | 2076.3 | 1788.3 |
| 42.5° | 1980.4 | 1983.6 | 1955.6 | 1910.9 | 1879.5 | 1881.0 | 1913.6 | 2061.1 | 2436.4 | 2326.7 | 1987.9 |
| 45° | 2148.3 | 2153.0 | 2122.1 | 2063.6 | 2035.0 | 2092.5 | 2079.0 | 2257.0 | 2702.4 | 2611.3 | 2217.0 |
| 47.5° | 2323.9 | 2331.0 | 2307.6 | 2252.7 | 2217.0 | 2296.2 | 2244.5 | 2474.2 | 2988.9 | 2916.5 | 2468.7 |
| 50° | 2419.7 | 2429.8 | 2452.6 | 2448.6 | 2441.0 | 2427.7 | 2428.9 | 2707.0 | 3284.3 | 3234.4 | 2727.4 |
| 52.5° | 2368.2 | 2367.9 | 2451.1 | 2552.2 | 2660.0 | 2668.0 | 2653.7 | 2952.5 | 3560.3 | 3545.1 | 2971.1 |
| 55° | 2133.0 | 2148.9 | 2274.9 | 2470.5 | 2764.9 | 2948.9 | 2990.7 | 3233.8 | 3831.3 | 3848.9 | 3218.3 |
| 57.5° | 1741.2 | 1754.4 | 1924.4 | 2197.0 | 2623.3 | 3115.8 | 3470.0 | 3642.5 | 4134.4 | 4216.3 | 3547.6 |
| 60° | 1180.9 | 1197.0 | 1377.1 | 1704.5 | 2242.0 | 3022.7 | 3926.2 | 4371.8 | 4497.2 | 4683.6 | 4009.7 |
| 62.5° | 694.0 | 708.4 | 855.3 | 1075.2 | 1578.5 | 2590.6 | 4126.4 | 5409.5 | 5073.4 | 5388.6 | 4714.4 |
| 65° | 477.7 | 487.5 | 559.0 | 669.3 | 907.1 | 1744.8 | 3878.1 | 6125.9 | 5960.2 | 6262.1 | 5531.5 |
| 67.5° | 384.4 | 383.2 | 439.9 | 515.0 | 584.0 | 899.7 | 2932.5 | 6044.9 | 6740.1 | 6866.0 | 5955.6 |
| 70° | 316.6 | 315.4 | 353.9 | 416.1 | 466.7 | 506.7 | 1597.3 | 5101.1 | 6581.2 | 6632.3 | 5565.1 |
| 72.5° | 264.8 | 266.1 | 290.7 | 337.0 | 382.9 | 381.7 | 701.9 | 3588.6 | 5177.3 | 5530.9 | 4436.2 |
| 75° | 223.6 | 224.2 | 240.6 | 273.2 | 310.8 | 307.4 | 380.7 | 1944.1 | 3009.5 | 3255.6 | 2459.1 |
| 77.5° | 190.4 | 191.0 | 201.4 | 219.6 | 246.4 | 245.2 | 277.8 | 839.9 | 1255.5 | 1240.0 | 841.2 |
| 80° | 169.7 | 169.7 | 174.6 | 178.0 | 192.8 | 187.3 | 206.0 | 403.5 | 530.7 | 490.0 | 335.7 |
| 82.5° | 133.1 | 133.7 | 163.9 | 162.6 | 151.8 | 144.7 | 144.7 | 237.7 | 281.2 | 259.9 | 196.5 |
| 85° | 74.9 | 74.6 | 105.7 | 127.6 | 133.7 | 102.0 | 101.1 | 133.1 | 153.0 | 134.9 | 95.1 |
| 87.5° | 32.0 | 32.6 | 49.0 | 56.7 | 75.8 | 63.4 | 62.5 | 68.6 | 77.9 | 67.4 | 44.1 |
| 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° | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 | 869.2 |
| 2.5° | 869.5 | 861.5 | 843.9 | 822.0 | 802.4 | 789.4 | 777.7 | 760.8 | 761.7 | 750.0 | 741.3 |
| 5° | 868.9 | 852.2 | 811.6 | 763.2 | 716.7 | 683.1 | 657.9 | 635.2 | 629.5 | 618.8 | 612.3 |
| 7.5° | 869.5 | 842.4 | 774.1 | 696.7 | 639.1 | 596.6 | 575.0 | 563.0 | 560.3 | 556.6 | 556.9 |
| 10° | 871.7 | 833.5 | 732.7 | 634.5 | 574.1 | 546.1 | 540.8 | 544.5 | 548.9 | 550.1 | 550.4 |
| 12.5° | 876.6 | 825.4 | 687.4 | 579.1 | 533.5 | 524.9 | 533.8 | 546.4 | 554.7 | 558.7 | 558.4 |
| 15° | 887.7 | 819.3 | 644.0 | 535.6 | 511.0 | 515.6 | 532.2 | 550.1 | 562.1 | 567.6 | 567.9 |
| 17.5° | 899.7 | 810.4 | 599.3 | 502.4 | 494.4 | 506.1 | 526.7 | 547.6 | 562.4 | 568.6 | 569.8 |
| 20° | 915.4 | 799.2 | 552.6 | 477.4 | 478.6 | 491.8 | 511.3 | 532.2 | 548.6 | 553.8 | 556.3 |
| 22.5° | 936.0 | 787.3 | 511.6 | 457.1 | 460.7 | 471.0 | 486.0 | 504.2 | 518.3 | 520.9 | 523.0 |
| 25° | 963.7 | 774.4 | 478.9 | 438.6 | 440.2 | 446.0 | 456.1 | 467.0 | 476.8 | 474.0 | 476.2 |
| 27.5° | 1001.1 | 763.2 | 454.6 | 421.7 | 418.9 | 420.1 | 425.3 | 428.7 | 433.9 | 426.3 | 427.2 |
| 30° | 1044.7 | 751.3 | 435.8 | 406.8 | 399.2 | 397.0 | 398.2 | 400.1 | 404.1 | 393.6 | 392.1 |
| 32.5° | 1095.6 | 736.7 | 418.3 | 393.9 | 383.2 | 378.8 | 379.4 | 384.4 | 399.8 | 393.3 | 389.9 |
| 35° | 1154.7 | 720.5 | 399.8 | 379.8 | 372.4 | 366.2 | 365.6 | 381.0 | 426.9 | 422.9 | 419.8 |
| 37.5° | 1224.1 | 704.1 | 381.4 | 363.8 | 364.4 | 357.6 | 355.5 | 373.0 | 432.1 | 416.4 | 414.3 |
| 40° | 1312.1 | 695.5 | 365.6 | 346.8 | 354.6 | 353.6 | 349.2 | 358.2 | 397.6 | 369.0 | 365.3 |
| 42.5° | 1421.2 | 696.7 | 353.9 | 328.7 | 342.8 | 352.7 | 345.9 | 346.2 | 360.4 | 338.8 | 335.4 |
| 45° | 1555.7 | 711.2 | 345.6 | 314.1 | 329.6 | 351.8 | 344.6 | 339.7 | 340.9 | 329.6 | 327.8 |
| 47.5° | 1712.8 | 741.0 | 339.7 | 302.2 | 316.9 | 348.3 | 344.3 | 337.9 | 335.1 | 329.0 | 327.4 |
| 50° | 1887.4 | 784.5 | 335.4 | 290.7 | 305.6 | 342.8 | 344.6 | 336.0 | 333.0 | 330.5 | 329.6 |
| 52.5° | 2059.0 | 834.1 | 329.0 | 280.9 | 296.7 | 336.0 | 345.6 | 334.2 | 330.8 | 329.0 | 328.1 |
| 55° | 2250.3 | 896.0 | 319.1 | 272.6 | 289.2 | 327.4 | 345.6 | 331.4 | 327.8 | 328.1 | 327.8 |
| 57.5° | 2508.7 | 996.0 | 307.4 | 265.5 | 280.3 | 316.9 | 339.7 | 328.4 | 323.8 | 324.1 | 324.4 |
| 60° | 2912.5 | 1172.6 | 293.2 | 258.4 | 269.2 | 304.6 | 331.7 | 321.5 | 316.9 | 318.1 | 318.4 |
| 62.5° | 3506.4 | 1431.6 | 274.8 | 248.0 | 257.5 | 291.3 | 320.6 | 312.9 | 308.3 | 311.4 | 311.4 |
| 65° | 4123.6 | 1660.1 | 252.0 | 234.7 | 245.2 | 276.9 | 306.8 | 302.2 | 297.6 | 304.6 | 304.3 |
| 67.5° | 4289.6 | 1609.0 | 229.1 | 220.2 | 232.8 | 260.9 | 290.1 | 287.7 | 285.2 | 297.6 | 297.0 |
| 70° | 3810.6 | 1291.8 | 208.2 | 205.4 | 219.3 | 243.7 | 272.3 | 272.3 | 270.8 | 280.0 | 277.8 |
| 72.5° | 2903.2 | 916.1 | 188.2 | 189.8 | 203.9 | 224.8 | 252.9 | 255.0 | 252.6 | 257.2 | 255.3 |
| 75° | 1554.2 | 524.3 | 168.2 | 172.5 | 184.8 | 205.7 | 231.3 | 233.4 | 231.9 | 231.6 | 232.5 |
| 77.5° | 516.5 | 256.2 | 147.2 | 154.0 | 164.8 | 186.1 | 208.8 | 212.3 | 208.5 | 207.9 | 207.6 |
| 80° | 230.1 | 161.1 | 124.1 | 133.1 | 142.6 | 163.6 | 185.2 | 187.9 | 183.9 | 189.5 | 182.3 |
| 82.5° | 147.8 | 106.0 | 99.5 | 109.4 | 118.6 | 141.1 | 161.4 | 162.0 | 158.4 | 183.9 | 156.8 |
| 85° | 71.8 | 65.6 | 74.9 | 83.8 | 91.8 | 110.9 | 133.7 | 134.0 | 124.7 | 113.6 | 109.7 |
| 87.5° | 35.7 | 38.2 | 49.9 | 57.9 | 61.9 | 76.1 | 97.3 | 95.4 | 91.5 | 83.2 | 76.7 |
| 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)