

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: P450326

Luminaire Tested: **GLAN-SA1A-760-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

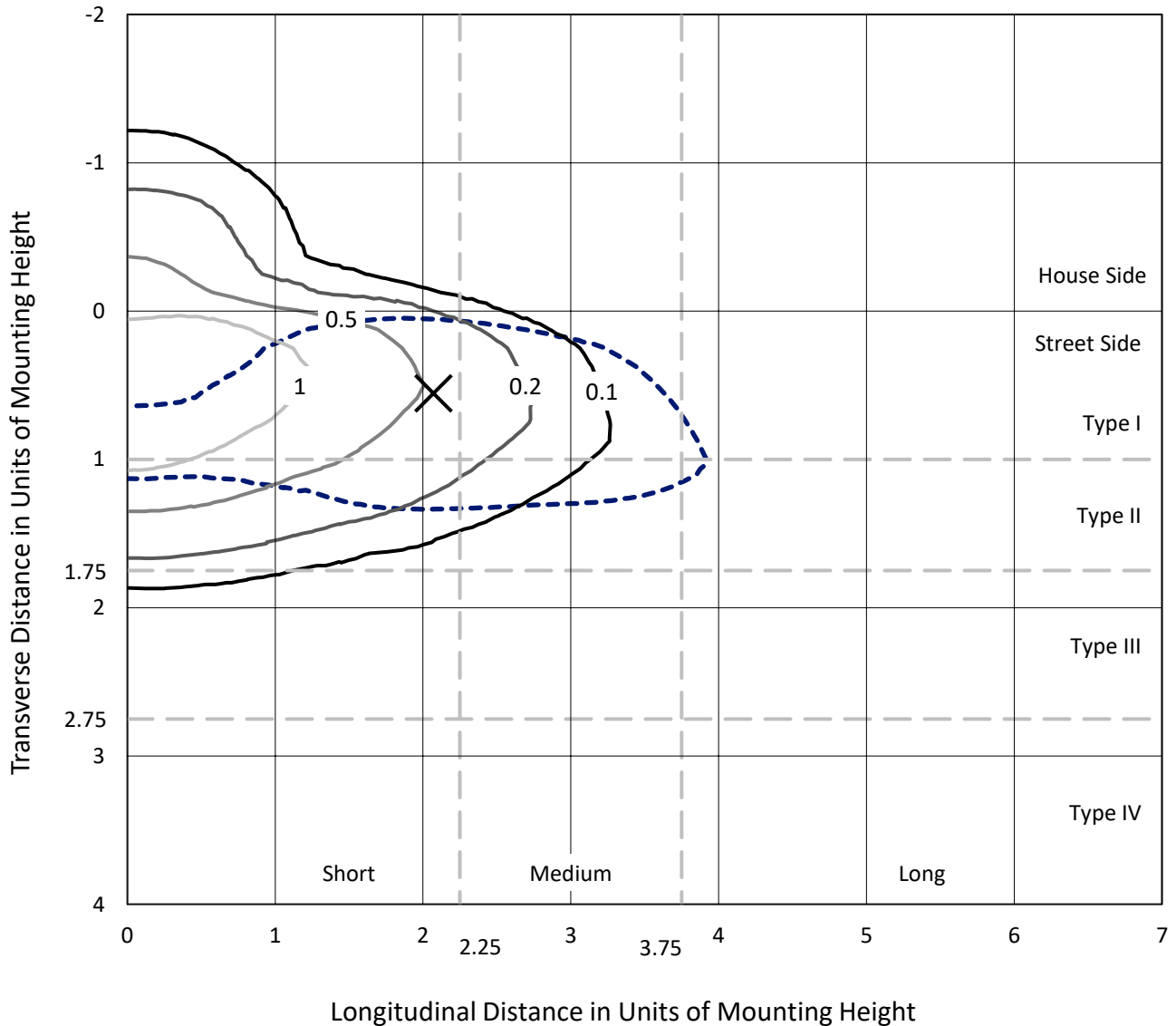
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

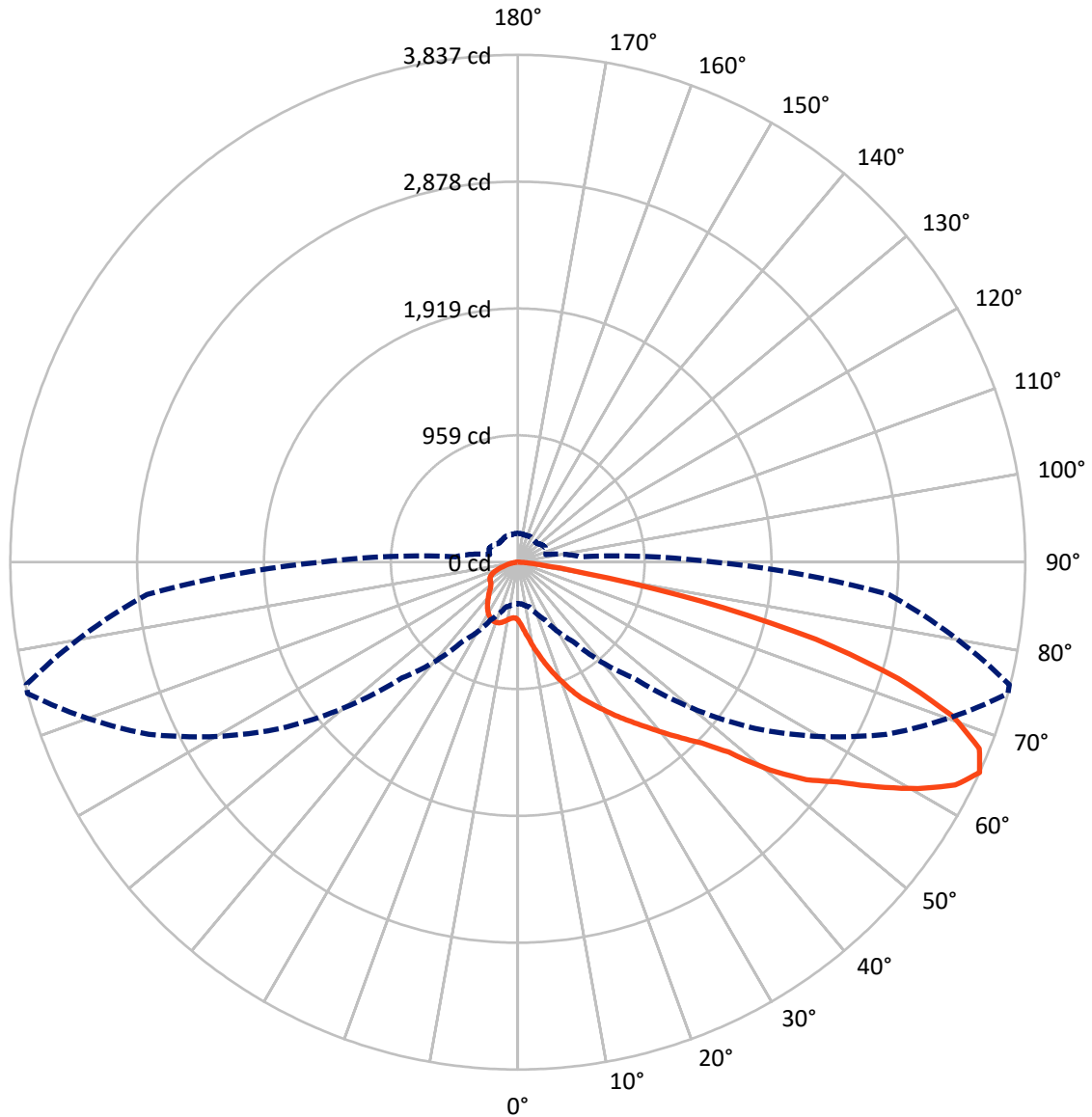
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 792.8 | 0.0 | 792.8 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 3923.2 | 0.0 | 3923.2 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 4716.0 | 0.0 | 4716.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.2 | 1.1 |
| 10°-20° | 208.5 | 4.4 |
| 20°-30° | 402.8 | 8.5 |
| 30°-40° | 654.3 | 13.9 |
| 40°-50° | 900.0 | 19.1 |
| 50°-60° | 1062.6 | 22.5 |
| 60°-70° | 931.0 | 19.7 |
| 70°-80° | 444.5 | 9.4 |
| 80°-90° | 59.1 | 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° | 4716.0 | 100.0 |
| 0°-180° | 4716.0 | 100.0 |

Coefficient of Utilization



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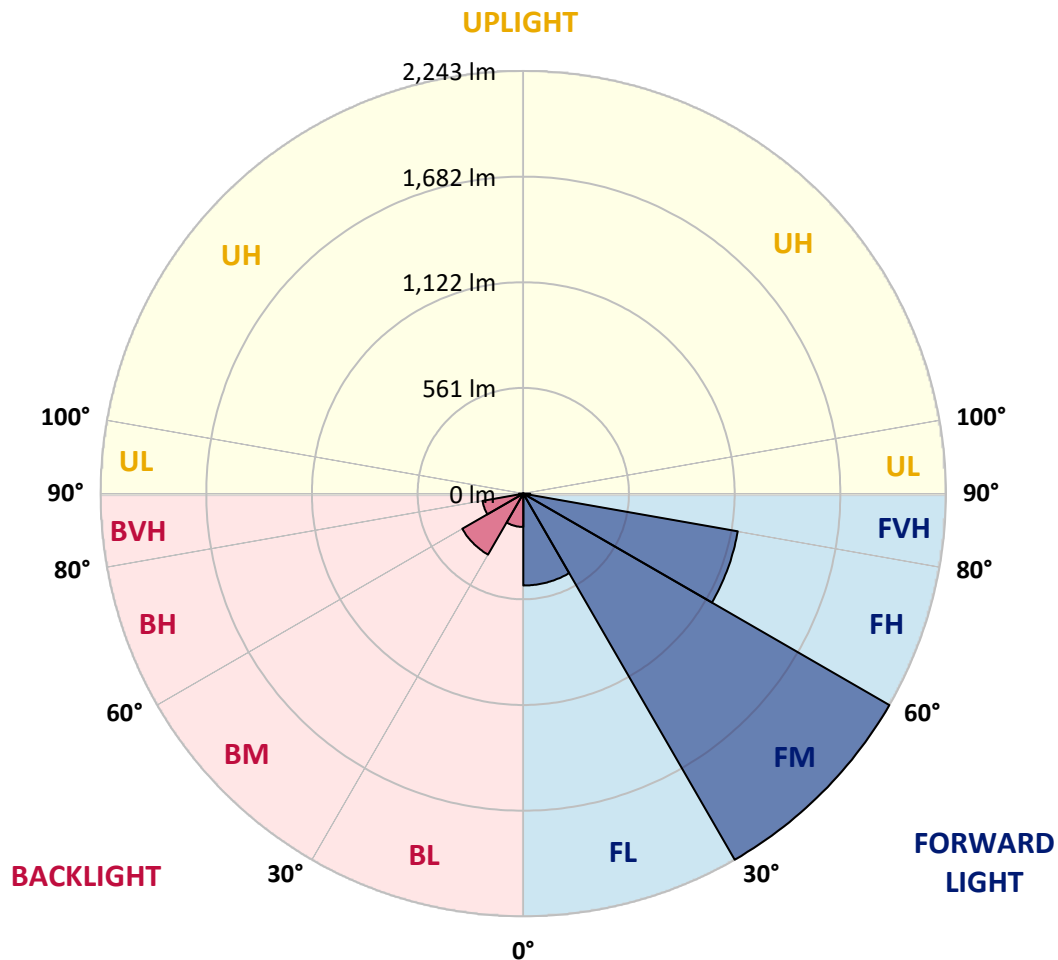
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 487.6 | 10.3 | | | |
| FM (30°-60°) | 2243.0 | 47.6 | | | |
| FH (60°-80°) | 1155.6 | 24.5 | | | G1/1800 |
| FVH (80°-90°) | 37.0 | 0.8 | | | G1/100 |
| BL (0°-30°) | 177.0 | 3.8 | B1/500 | | |
| BM (30°-60°) | 373.8 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 219.8 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.2 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 |
| 2.5° | 582.2 | 578.4 | 574.3 | 563.0 | 551.0 | 537.4 | 518.0 | 499.3 | 474.5 | 473.7 | 455.3 |
| 5° | 743.6 | 741.0 | 722.9 | 712.4 | 684.5 | 647.4 | 616.0 | 567.1 | 521.8 | 516.4 | 480.6 |
| 7.5° | 892.0 | 882.0 | 875.1 | 856.1 | 828.5 | 780.9 | 720.1 | 654.1 | 578.4 | 571.2 | 511.8 |
| 10° | 1003.7 | 1002.7 | 999.1 | 982.8 | 962.0 | 914.7 | 847.2 | 752.5 | 650.0 | 635.9 | 549.7 |
| 12.5° | 1087.4 | 1088.1 | 1087.6 | 1087.4 | 1072.5 | 1032.4 | 959.2 | 859.5 | 722.4 | 712.4 | 593.4 |
| 15° | 1142.4 | 1150.1 | 1153.1 | 1165.9 | 1167.2 | 1140.3 | 1077.4 | 962.8 | 804.0 | 789.1 | 640.5 |
| 17.5° | 1178.7 | 1182.5 | 1196.9 | 1218.6 | 1236.3 | 1231.4 | 1175.4 | 1058.5 | 887.4 | 862.5 | 689.4 |
| 20° | 1213.5 | 1220.1 | 1231.1 | 1260.8 | 1292.0 | 1306.3 | 1267.0 | 1156.4 | 970.0 | 954.1 | 743.3 |
| 22.5° | 1285.9 | 1295.3 | 1299.2 | 1314.3 | 1340.9 | 1366.2 | 1348.3 | 1250.3 | 1060.5 | 1039.0 | 800.6 |
| 25° | 1408.4 | 1418.4 | 1407.6 | 1404.1 | 1412.8 | 1425.3 | 1421.4 | 1338.8 | 1146.0 | 1115.3 | 854.9 |
| 27.5° | 1568.0 | 1569.3 | 1548.3 | 1528.4 | 1506.9 | 1500.5 | 1488.7 | 1417.4 | 1220.1 | 1194.6 | 909.3 |
| 30° | 1739.4 | 1733.3 | 1698.5 | 1662.4 | 1626.1 | 1590.3 | 1556.5 | 1493.1 | 1302.8 | 1273.3 | 962.8 |
| 32.5° | 1898.5 | 1895.2 | 1856.6 | 1800.5 | 1739.1 | 1705.4 | 1637.1 | 1569.6 | 1391.3 | 1362.9 | 1017.8 |
| 35° | 2017.7 | 2022.6 | 1980.1 | 1919.0 | 1852.0 | 1822.0 | 1735.8 | 1649.9 | 1482.8 | 1451.9 | 1077.7 |
| 37.5° | 2102.4 | 2099.8 | 2062.2 | 2009.3 | 1950.4 | 1924.3 | 1851.2 | 1737.6 | 1581.3 | 1551.6 | 1143.1 |
| 40° | 2132.6 | 2131.0 | 2103.1 | 2064.5 | 2027.2 | 2018.0 | 1971.9 | 1832.3 | 1694.1 | 1659.3 | 1221.9 |
| 42.5° | 2113.4 | 2116.7 | 2098.3 | 2087.8 | 2080.9 | 2087.5 | 2091.9 | 1956.3 | 1817.2 | 1785.2 | 1307.4 |
| 45° | 2054.5 | 2052.8 | 2050.2 | 2067.3 | 2106.2 | 2150.0 | 2210.6 | 2073.5 | 1950.9 | 1925.4 | 1422.0 |
| 47.5° | 1949.4 | 1962.2 | 1968.6 | 2015.9 | 2100.8 | 2204.4 | 2347.2 | 2230.5 | 2145.1 | 2122.8 | 1596.7 |
| 50° | 1802.3 | 1812.6 | 1850.4 | 1934.6 | 2061.2 | 2224.9 | 2480.7 | 2487.3 | 2468.9 | 2427.2 | 1786.5 |
| 52.5° | 1572.6 | 1588.5 | 1666.5 | 1820.7 | 1979.8 | 2216.5 | 2561.5 | 2707.6 | 2731.9 | 2700.7 | 1973.5 |
| 55° | 1315.6 | 1337.8 | 1420.2 | 1622.5 | 1867.8 | 2170.4 | 2617.3 | 2835.2 | 2932.2 | 2903.3 | 2153.5 |
| 57.5° | 1063.8 | 1087.4 | 1172.1 | 1368.0 | 1672.4 | 2068.6 | 2653.9 | 2977.4 | 3204.8 | 3167.2 | 2377.6 |
| 60° | 797.3 | 821.9 | 894.5 | 1096.3 | 1394.1 | 1869.6 | 2629.1 | 3100.7 | 3477.3 | 3461.2 | 2601.9 |
| 62.5° | 514.4 | 541.5 | 604.7 | 771.7 | 1071.5 | 1597.7 | 2496.3 | 3168.8 | 3713.1 | 3693.7 | 2765.7 |
| 65° | 313.3 | 316.4 | 351.2 | 479.1 | 733.4 | 1237.0 | 2192.7 | 3078.5 | 3837.4 | 3831.5 | 2815.5 |
| 67.5° | 202.6 | 207.4 | 223.3 | 287.0 | 439.7 | 859.2 | 1753.2 | 2780.5 | 3764.8 | 3762.7 | 2712.4 |
| 70° | 171.1 | 172.7 | 179.8 | 193.6 | 255.5 | 521.1 | 1231.1 | 2305.5 | 3488.8 | 3488.8 | 2464.6 |
| 72.5° | 153.0 | 155.0 | 157.6 | 161.9 | 182.4 | 295.2 | 734.6 | 1794.7 | 3012.2 | 3032.2 | 2097.8 |
| 75° | 138.9 | 138.4 | 139.9 | 140.7 | 155.5 | 192.9 | 379.9 | 1327.3 | 2330.3 | 2290.4 | 1519.2 |
| 77.5° | 118.9 | 119.7 | 118.9 | 122.3 | 137.4 | 146.8 | 192.9 | 890.7 | 1412.2 | 1360.6 | 762.5 |
| 80° | 97.7 | 99.0 | 100.3 | 102.3 | 117.4 | 111.5 | 115.9 | 405.9 | 522.3 | 511.3 | 235.6 |
| 82.5° | 73.4 | 75.2 | 77.2 | 82.1 | 92.3 | 73.7 | 73.2 | 173.4 | 188.5 | 172.7 | 86.7 |
| 85° | 29.7 | 35.0 | 52.9 | 57.8 | 58.1 | 40.4 | 45.0 | 72.4 | 77.0 | 75.2 | 34.0 |
| 87.5° | 6.9 | 8.2 | 17.1 | 25.8 | 23.8 | 15.1 | 16.6 | 23.5 | 26.9 | 24.8 | 11.5 |
| 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° | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 | 438.2 |
| 2.5° | 446.9 | 437.9 | 422.6 | 410.8 | 402.4 | 394.9 | 390.3 | 387.5 | 386.5 | 386.2 | 386.5 |
| 5° | 462.0 | 446.1 | 421.8 | 406.5 | 398.0 | 393.2 | 390.3 | 390.1 | 390.3 | 390.6 | 389.8 |
| 7.5° | 482.7 | 459.9 | 428.2 | 413.9 | 407.5 | 403.9 | 402.6 | 402.1 | 402.4 | 402.1 | 402.1 |
| 10° | 510.3 | 479.1 | 440.7 | 425.9 | 420.5 | 416.4 | 414.4 | 413.1 | 412.1 | 411.1 | 410.6 |
| 12.5° | 540.7 | 500.3 | 454.3 | 440.0 | 432.3 | 425.9 | 421.3 | 418.0 | 415.7 | 413.4 | 412.9 |
| 15° | 574.8 | 522.8 | 469.4 | 449.4 | 438.4 | 429.0 | 421.0 | 415.7 | 411.6 | 408.2 | 408.0 |
| 17.5° | 607.3 | 544.1 | 479.6 | 453.8 | 437.7 | 424.4 | 413.9 | 406.5 | 401.3 | 397.0 | 396.5 |
| 20° | 642.0 | 564.3 | 484.2 | 451.0 | 430.0 | 413.9 | 400.1 | 391.1 | 385.2 | 380.4 | 379.6 |
| 22.5° | 677.1 | 581.4 | 483.7 | 442.0 | 416.7 | 397.8 | 383.2 | 373.7 | 366.8 | 361.9 | 360.2 |
| 25° | 710.6 | 595.2 | 477.3 | 427.7 | 398.3 | 378.6 | 363.7 | 355.0 | 348.9 | 343.0 | 343.0 |
| 27.5° | 740.8 | 603.4 | 465.3 | 410.3 | 379.3 | 358.6 | 346.9 | 338.9 | 333.3 | 329.5 | 327.2 |
| 30° | 770.5 | 607.3 | 448.9 | 388.3 | 359.4 | 341.7 | 332.3 | 327.7 | 322.6 | 318.2 | 317.7 |
| 32.5° | 797.1 | 606.5 | 428.5 | 366.8 | 340.5 | 327.9 | 324.1 | 320.5 | 315.1 | 309.0 | 307.5 |
| 35° | 822.9 | 601.4 | 404.2 | 343.3 | 324.6 | 319.7 | 320.8 | 315.7 | 305.9 | 298.3 | 297.0 |
| 37.5° | 851.0 | 592.2 | 377.6 | 324.1 | 311.3 | 315.9 | 318.5 | 307.2 | 291.3 | 279.3 | 276.5 |
| 40° | 883.5 | 581.7 | 349.9 | 304.9 | 300.8 | 312.3 | 312.3 | 291.6 | 269.9 | 262.4 | 260.4 |
| 42.5° | 921.6 | 573.0 | 326.9 | 288.8 | 292.1 | 303.6 | 302.3 | 270.9 | 261.9 | 258.1 | 257.1 |
| 45° | 982.0 | 569.9 | 303.1 | 274.7 | 285.0 | 293.4 | 282.9 | 263.7 | 258.6 | 255.5 | 254.5 |
| 47.5° | 1077.4 | 573.5 | 282.1 | 264.2 | 276.8 | 283.2 | 261.2 | 258.9 | 255.3 | 250.9 | 250.4 |
| 50° | 1165.9 | 570.2 | 267.3 | 258.4 | 269.6 | 270.9 | 252.2 | 253.0 | 250.9 | 246.1 | 245.1 |
| 52.5° | 1238.3 | 559.7 | 257.8 | 255.3 | 263.5 | 249.4 | 243.8 | 246.6 | 245.8 | 239.7 | 238.7 |
| 55° | 1317.9 | 553.3 | 253.2 | 255.3 | 259.4 | 230.7 | 235.8 | 239.9 | 238.9 | 234.6 | 234.3 |
| 57.5° | 1414.3 | 554.6 | 249.9 | 256.1 | 255.3 | 221.3 | 227.9 | 232.8 | 232.5 | 231.2 | 231.2 |
| 60° | 1513.0 | 555.1 | 244.8 | 255.8 | 250.4 | 213.8 | 219.7 | 226.6 | 227.1 | 227.9 | 227.9 |
| 62.5° | 1545.8 | 532.8 | 234.8 | 251.2 | 239.7 | 206.7 | 212.1 | 221.5 | 221.0 | 223.1 | 223.3 |
| 65° | 1484.6 | 471.2 | 220.0 | 240.7 | 225.9 | 201.6 | 206.2 | 214.9 | 212.1 | 217.4 | 218.4 |
| 67.5° | 1351.4 | 389.8 | 197.0 | 221.8 | 210.5 | 196.2 | 202.3 | 205.7 | 200.5 | 211.0 | 211.3 |
| 70° | 1168.0 | 304.4 | 167.8 | 194.9 | 193.1 | 190.6 | 199.3 | 194.1 | 187.0 | 199.8 | 197.2 |
| 72.5° | 976.6 | 232.5 | 134.0 | 159.4 | 169.8 | 182.1 | 193.9 | 179.3 | 169.3 | 173.2 | 168.6 |
| 75° | 733.6 | 171.9 | 107.7 | 124.8 | 141.5 | 170.1 | 189.0 | 161.4 | 146.1 | 142.5 | 141.5 |
| 77.5° | 374.0 | 112.3 | 80.6 | 93.4 | 106.2 | 153.7 | 182.4 | 140.4 | 121.0 | 115.4 | 112.8 |
| 80° | 133.5 | 69.8 | 56.8 | 64.5 | 71.6 | 132.2 | 159.4 | 116.1 | 93.9 | 92.9 | 93.9 |
| 82.5° | 61.9 | 45.0 | 38.1 | 42.2 | 42.5 | 88.2 | 121.5 | 86.7 | 71.4 | 108.5 | 91.6 |
| 85° | 26.6 | 22.5 | 21.5 | 21.0 | 19.4 | 39.4 | 68.3 | 46.6 | 72.6 | 32.5 | 29.9 |
| 87.5° | 7.9 | 9.0 | 7.9 | 5.9 | 4.3 | 4.3 | 6.9 | 2.6 | 1.8 | 1.3 | 1.3 |
| 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)