

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: P317385

Luminaire Tested: **GAN-SA1A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4630 lumens
Efficiency: N/A
Efficacy: 136.2 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

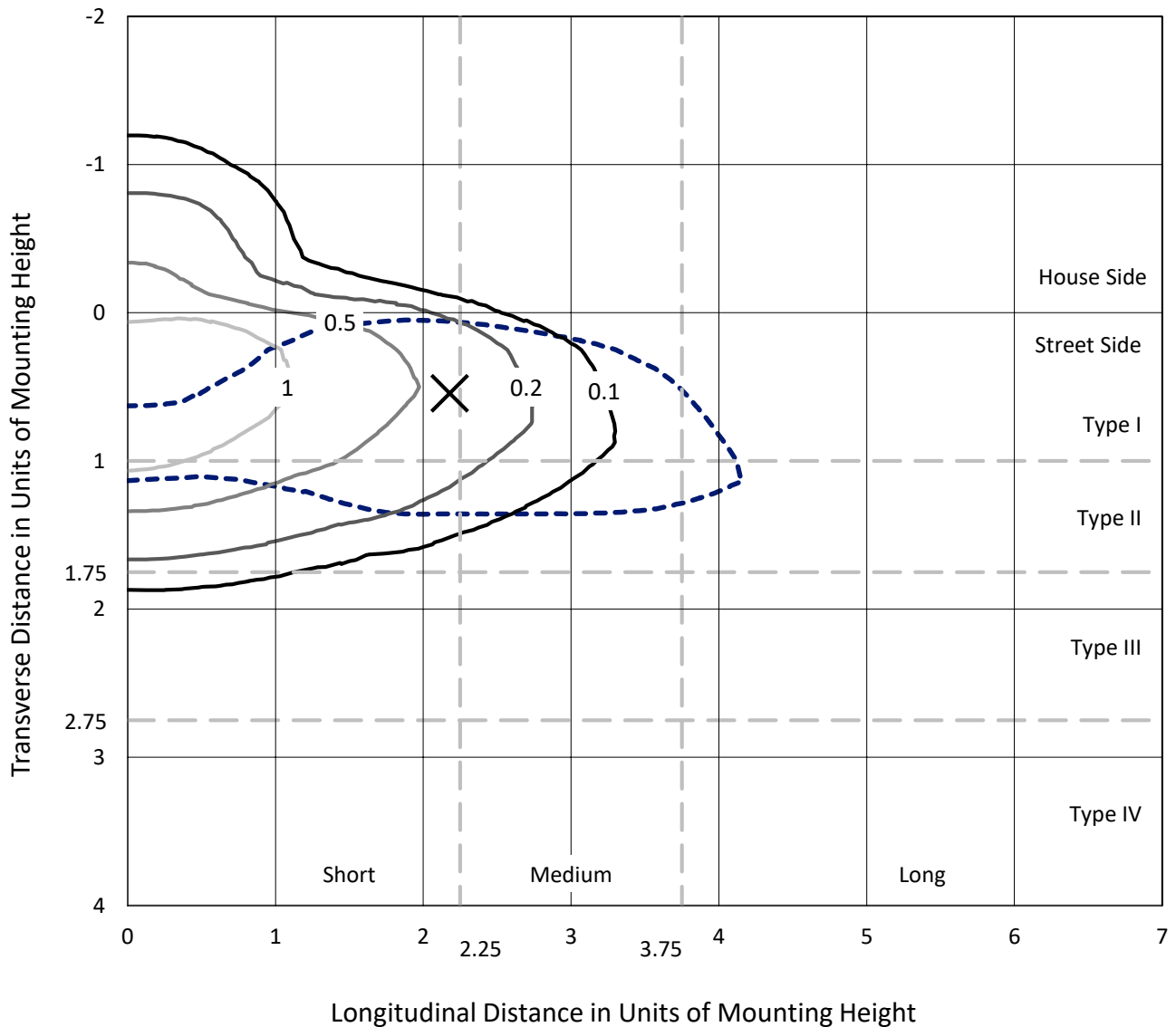
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

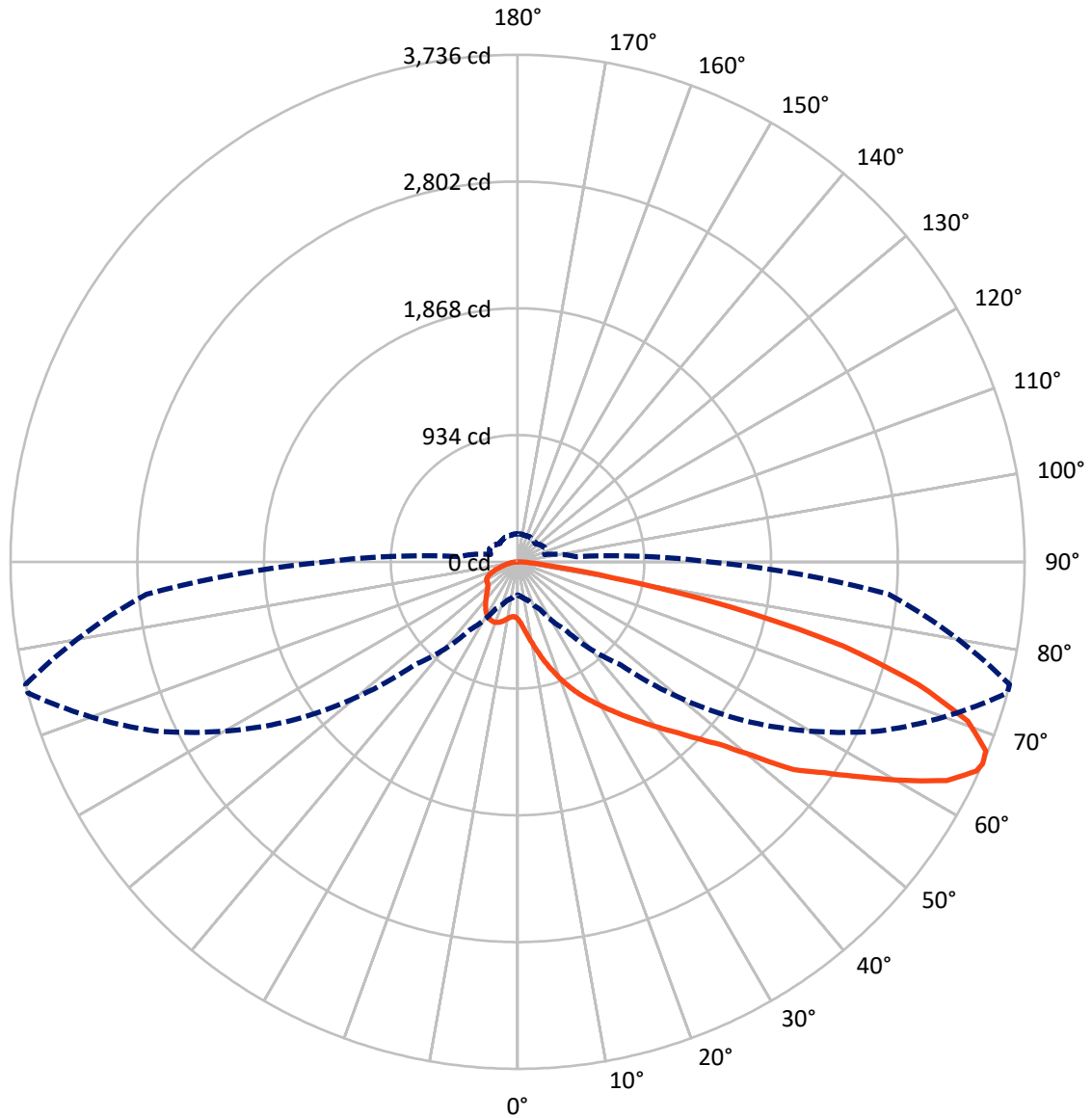
✕ Max cd
 - - - 1/2 Max cd



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 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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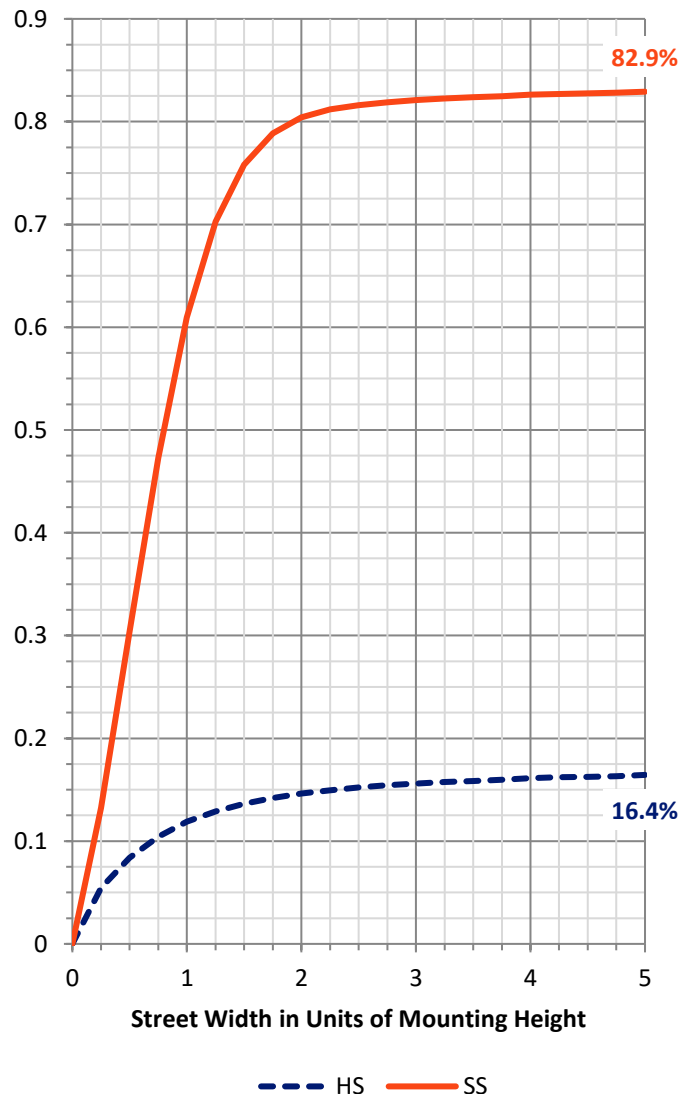
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 779.1 | 0.0 | 779.1 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 3850.9 | 0.0 | 3850.9 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 4630.0 | 0.0 | 4630.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.1 | 1.1 |
| 10°-20° | 201.9 | 4.4 |
| 20°-30° | 392.4 | 8.5 |
| 30°-40° | 640.4 | 13.8 |
| 40°-50° | 875.0 | 18.9 |
| 50°-60° | 1019.2 | 22.0 |
| 60°-70° | 913.7 | 19.7 |
| 70°-80° | 461.7 | 10.0 |
| 80°-90° | 74.6 | 1.6 |
| 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° | 4630.0 | 100.0 |
| 0°-180° | 4630.0 | 100.0 |

Coefficient of Utilization



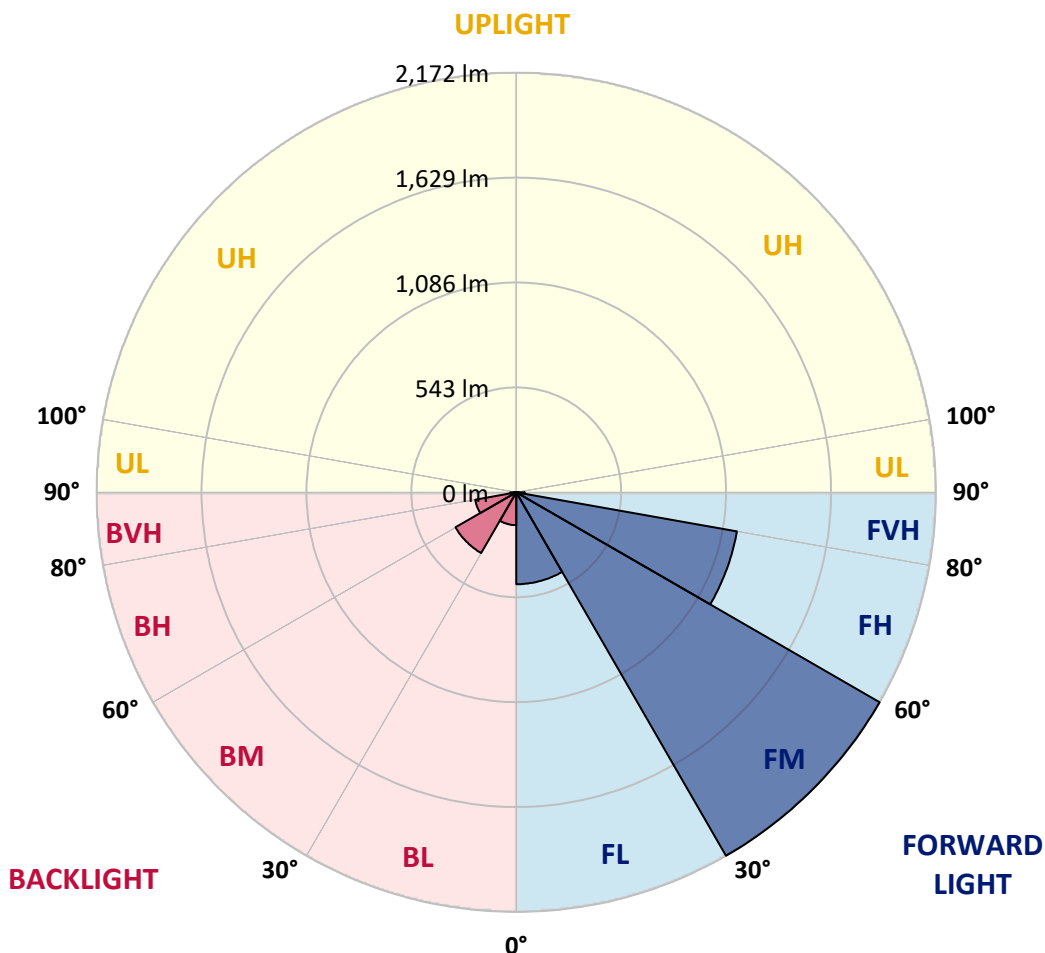
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 475.5 | 10.3 | | | |
| FM (30°-60°) | 2171.8 | 46.9 | | | |
| FH (60°-80°) | 1159.6 | 25.0 | | | G1/1800 |
| FVH (80°-90°) | 44.0 | 1.0 | | | G1/100 |
| BL (0°-30°) | 169.9 | 3.7 | B1/500 | | |
| BM (30°-60°) | 362.8 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 215.8 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.5 | 0.7 | | | 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° | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 |
| 2.5° | 561.3 | 552.8 | 552.0 | 539.6 | 536.8 | 513.0 | 495.6 | 477.4 | 456.6 | 452.5 | 436.2 |
| 5° | 721.0 | 720.2 | 709.4 | 689.1 | 673.2 | 632.7 | 592.6 | 550.1 | 503.6 | 496.1 | 459.3 |
| 7.5° | 864.7 | 863.4 | 855.1 | 833.2 | 810.3 | 760.5 | 703.2 | 638.2 | 562.7 | 551.6 | 490.6 |
| 10° | 973.8 | 973.3 | 970.5 | 954.4 | 934.9 | 887.1 | 824.0 | 735.1 | 631.4 | 616.2 | 529.7 |
| 12.5° | 1058.0 | 1058.9 | 1060.8 | 1055.2 | 1045.9 | 1005.2 | 940.4 | 837.9 | 704.7 | 689.6 | 573.2 |
| 15° | 1115.1 | 1117.9 | 1127.6 | 1135.7 | 1140.5 | 1115.5 | 1052.8 | 943.1 | 786.7 | 768.6 | 621.5 |
| 17.5° | 1143.8 | 1147.0 | 1163.8 | 1188.0 | 1210.3 | 1207.8 | 1158.0 | 1043.4 | 865.5 | 848.0 | 673.4 |
| 20° | 1168.7 | 1171.0 | 1189.9 | 1219.0 | 1258.4 | 1275.9 | 1247.9 | 1139.9 | 951.7 | 931.0 | 728.4 |
| 22.5° | 1240.6 | 1243.6 | 1249.3 | 1265.8 | 1300.7 | 1332.8 | 1319.2 | 1231.2 | 1030.8 | 1011.5 | 780.6 |
| 25° | 1379.6 | 1383.2 | 1371.0 | 1357.0 | 1363.6 | 1385.9 | 1388.4 | 1314.5 | 1111.0 | 1089.1 | 836.7 |
| 27.5° | 1547.0 | 1552.2 | 1531.3 | 1495.3 | 1463.8 | 1455.2 | 1452.2 | 1382.7 | 1187.5 | 1162.2 | 892.2 |
| 30° | 1710.9 | 1719.9 | 1692.7 | 1646.0 | 1588.3 | 1547.8 | 1517.8 | 1449.5 | 1263.0 | 1238.8 | 944.5 |
| 32.5° | 1871.1 | 1867.5 | 1828.0 | 1782.5 | 1714.9 | 1664.1 | 1591.5 | 1521.2 | 1347.8 | 1320.0 | 996.5 |
| 35° | 1980.8 | 1982.1 | 1945.5 | 1891.4 | 1826.9 | 1788.0 | 1690.2 | 1598.6 | 1434.5 | 1408.8 | 1055.6 |
| 37.5° | 2074.2 | 2068.4 | 2026.9 | 1976.4 | 1920.9 | 1904.3 | 1805.7 | 1683.7 | 1528.3 | 1500.3 | 1118.5 |
| 40° | 2105.3 | 2098.6 | 2071.4 | 2035.1 | 1990.6 | 1989.2 | 1933.2 | 1780.3 | 1634.4 | 1606.7 | 1189.4 |
| 42.5° | 2086.5 | 2077.8 | 2066.6 | 2056.7 | 2043.1 | 2049.4 | 2053.0 | 1893.4 | 1751.0 | 1720.1 | 1271.5 |
| 45° | 2016.8 | 2003.8 | 2011.6 | 2033.2 | 2062.9 | 2098.4 | 2161.1 | 2018.7 | 1881.6 | 1855.7 | 1367.8 |
| 47.5° | 1909.8 | 1898.0 | 1922.5 | 1968.6 | 2049.4 | 2139.3 | 2263.4 | 2157.0 | 2037.6 | 2011.8 | 1505.0 |
| 50° | 1759.2 | 1762.7 | 1797.7 | 1881.5 | 2003.6 | 2158.1 | 2389.5 | 2340.1 | 2264.2 | 2240.2 | 1692.2 |
| 52.5° | 1512.1 | 1512.7 | 1611.4 | 1749.0 | 1922.5 | 2148.4 | 2459.4 | 2574.2 | 2573.7 | 2544.6 | 1870.5 |
| 55° | 1282.6 | 1296.6 | 1374.7 | 1557.5 | 1791.1 | 2109.4 | 2508.3 | 2688.0 | 2777.0 | 2742.9 | 2036.6 |
| 57.5° | 1058.5 | 1066.6 | 1140.7 | 1324.3 | 1603.6 | 2005.5 | 2558.5 | 2824.6 | 3011.2 | 2989.6 | 2243.2 |
| 60° | 803.5 | 816.1 | 892.6 | 1062.2 | 1363.7 | 1821.1 | 2563.2 | 2967.2 | 3291.1 | 3269.4 | 2473.8 |
| 62.5° | 521.5 | 543.2 | 614.9 | 773.8 | 1073.6 | 1556.0 | 2453.8 | 3060.4 | 3556.4 | 3548.7 | 2678.4 |
| 65° | 299.7 | 316.1 | 365.9 | 488.5 | 740.6 | 1223.0 | 2193.7 | 3024.5 | 3719.7 | 3715.3 | 2755.0 |
| 66° | 244.9 | 255.1 | 293.3 | 381.8 | 611.1 | 1074.0 | 2042.4 | 2948.9 | 3735.9 | 3736.1 | 2746.2 |
| 67.5° | 195.9 | 200.4 | 217.5 | 273.3 | 451.0 | 851.3 | 1772.2 | 2782.1 | 3715.8 | 3721.3 | 2689.4 |
| 70° | 162.1 | 164.4 | 169.8 | 183.3 | 246.1 | 513.4 | 1257.9 | 2348.8 | 3513.8 | 3518.1 | 2467.9 |
| 72.5° | 145.4 | 146.8 | 148.9 | 150.7 | 173.7 | 286.9 | 768.3 | 1879.0 | 3080.8 | 3086.3 | 2130.5 |
| 75° | 131.7 | 132.5 | 132.2 | 132.3 | 145.7 | 182.8 | 397.0 | 1402.9 | 2491.0 | 2480.0 | 1632.0 |
| 77.5° | 115.7 | 116.5 | 114.9 | 115.2 | 128.9 | 140.5 | 197.6 | 982.1 | 1681.1 | 1603.4 | 919.5 |
| 80° | 97.8 | 98.4 | 97.8 | 98.9 | 112.2 | 106.1 | 114.9 | 552.5 | 743.3 | 703.1 | 326.9 |
| 82.5° | 73.9 | 76.5 | 78.4 | 82.8 | 92.4 | 75.4 | 76.9 | 215.2 | 226.3 | 215.5 | 100.3 |
| 85° | 32.4 | 39.5 | 59.1 | 63.3 | 69.5 | 45.3 | 50.5 | 87.7 | 92.1 | 89.3 | 36.5 |
| 87.5° | 8.5 | 9.3 | 29.2 | 36.8 | 38.5 | 20.4 | 26.2 | 39.9 | 42.1 | 39.9 | 12.1 |
| 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° | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 |
| 2.5° | 427.5 | 419.8 | 406.0 | 393.7 | 384.5 | 378.2 | 371.9 | 368.8 | 366.9 | 365.0 | 365.3 |
| 5° | 441.2 | 425.7 | 401.9 | 385.1 | 375.7 | 369.7 | 366.6 | 365.3 | 364.5 | 362.6 | 362.6 |
| 7.5° | 461.8 | 439.8 | 407.1 | 389.8 | 382.4 | 377.9 | 376.0 | 375.4 | 374.4 | 372.2 | 372.5 |
| 10° | 487.7 | 456.9 | 418.0 | 401.1 | 394.4 | 389.3 | 386.7 | 385.7 | 384.0 | 381.5 | 381.8 |
| 12.5° | 518.2 | 478.2 | 432.3 | 414.6 | 406.5 | 399.7 | 395.3 | 392.6 | 389.7 | 386.4 | 386.5 |
| 15° | 551.6 | 501.3 | 447.7 | 426.8 | 415.6 | 406.2 | 399.1 | 394.5 | 389.8 | 385.7 | 385.6 |
| 17.5° | 585.4 | 523.6 | 459.4 | 433.4 | 418.3 | 405.8 | 396.3 | 389.2 | 383.4 | 378.3 | 377.9 |
| 20° | 621.8 | 543.7 | 466.0 | 432.7 | 413.2 | 398.5 | 385.7 | 376.9 | 370.5 | 365.5 | 364.7 |
| 22.5° | 658.9 | 562.6 | 467.1 | 426.3 | 402.1 | 384.0 | 370.6 | 360.9 | 354.3 | 349.1 | 347.2 |
| 25° | 692.9 | 577.2 | 462.6 | 413.9 | 386.5 | 367.0 | 354.0 | 344.1 | 338.7 | 332.6 | 330.7 |
| 27.5° | 723.8 | 587.4 | 453.5 | 398.0 | 369.1 | 349.9 | 337.6 | 329.1 | 323.3 | 318.6 | 317.0 |
| 30° | 751.7 | 592.9 | 438.5 | 379.1 | 351.1 | 333.7 | 323.3 | 317.5 | 312.5 | 306.5 | 305.4 |
| 32.5° | 778.1 | 592.9 | 419.4 | 358.5 | 333.4 | 319.4 | 313.3 | 309.7 | 304.0 | 298.2 | 296.6 |
| 35° | 804.5 | 589.3 | 396.7 | 337.0 | 317.0 | 309.2 | 308.9 | 304.6 | 296.0 | 288.1 | 286.1 |
| 37.5° | 832.3 | 581.9 | 371.3 | 316.9 | 303.7 | 304.6 | 307.3 | 297.9 | 285.6 | 274.4 | 271.5 |
| 40° | 863.7 | 571.7 | 344.9 | 299.4 | 292.5 | 302.6 | 303.0 | 288.1 | 264.2 | 254.0 | 251.3 |
| 42.5° | 900.7 | 561.5 | 320.3 | 284.0 | 283.7 | 296.4 | 295.0 | 267.1 | 252.8 | 247.6 | 246.1 |
| 45° | 949.2 | 555.6 | 297.1 | 269.4 | 276.8 | 286.5 | 281.4 | 255.4 | 249.5 | 246.5 | 245.2 |
| 47.5° | 1025.8 | 558.6 | 275.7 | 257.8 | 269.9 | 276.6 | 255.9 | 250.7 | 246.5 | 242.8 | 241.6 |
| 50° | 1121.7 | 556.9 | 258.4 | 249.8 | 262.0 | 266.3 | 244.4 | 244.6 | 242.4 | 238.3 | 236.4 |
| 52.5° | 1193.8 | 543.4 | 247.2 | 245.2 | 255.1 | 247.9 | 237.2 | 238.6 | 237.5 | 231.5 | 229.5 |
| 55° | 1263.4 | 531.8 | 241.6 | 243.5 | 250.1 | 224.9 | 228.7 | 232.2 | 231.1 | 225.2 | 224.3 |
| 57.5° | 1350.0 | 529.6 | 238.1 | 243.9 | 245.8 | 213.5 | 220.5 | 225.1 | 224.3 | 221.8 | 221.3 |
| 60° | 1456.1 | 530.2 | 235.0 | 244.7 | 241.1 | 205.0 | 212.8 | 218.6 | 219.1 | 218.6 | 218.3 |
| 62.5° | 1514.5 | 513.0 | 227.1 | 242.5 | 232.8 | 197.6 | 204.8 | 213.3 | 213.5 | 214.4 | 214.2 |
| 65° | 1464.9 | 461.8 | 212.5 | 234.8 | 218.8 | 191.4 | 197.9 | 207.2 | 204.8 | 209.1 | 209.1 |
| 66° | 1416.9 | 432.3 | 205.3 | 229.8 | 212.8 | 189.1 | 195.7 | 204.0 | 201.0 | 206.9 | 206.9 |
| 67.5° | 1318.6 | 382.4 | 192.2 | 219.1 | 204.3 | 185.8 | 193.2 | 198.8 | 194.8 | 203.4 | 202.8 |
| 70° | 1139.1 | 295.8 | 166.0 | 194.9 | 190.3 | 180.9 | 189.7 | 188.5 | 182.5 | 195.7 | 193.2 |
| 72.5° | 960.4 | 224.8 | 133.3 | 163.2 | 169.1 | 174.8 | 184.8 | 175.3 | 167.7 | 177.0 | 171.5 |
| 75° | 745.2 | 169.0 | 105.3 | 126.8 | 142.9 | 165.2 | 179.0 | 160.0 | 149.2 | 148.2 | 145.2 |
| 77.5° | 402.9 | 116.0 | 83.5 | 96.8 | 113.5 | 153.3 | 175.1 | 143.7 | 127.3 | 123.5 | 121.2 |
| 80° | 159.5 | 75.4 | 60.7 | 73.4 | 79.4 | 136.0 | 165.7 | 124.6 | 105.0 | 101.2 | 97.6 |
| 82.5° | 65.9 | 44.6 | 39.1 | 49.2 | 51.7 | 116.3 | 148.7 | 102.2 | 81.1 | 112.2 | 119.1 |
| 85° | 28.3 | 24.5 | 23.3 | 25.5 | 29.2 | 81.6 | 118.4 | 78.0 | 87.6 | 78.1 | 62.1 |
| 87.5° | 8.5 | 10.4 | 9.9 | 9.7 | 10.7 | 19.5 | 63.0 | 43.4 | 64.3 | 24.4 | 18.2 |
| 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)