

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: P648724

Luminaire Tested: **GLAN-SA1C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648724
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-SA1C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5676.8 lumens
Efficiency: N/A
Efficacy: 99.6 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

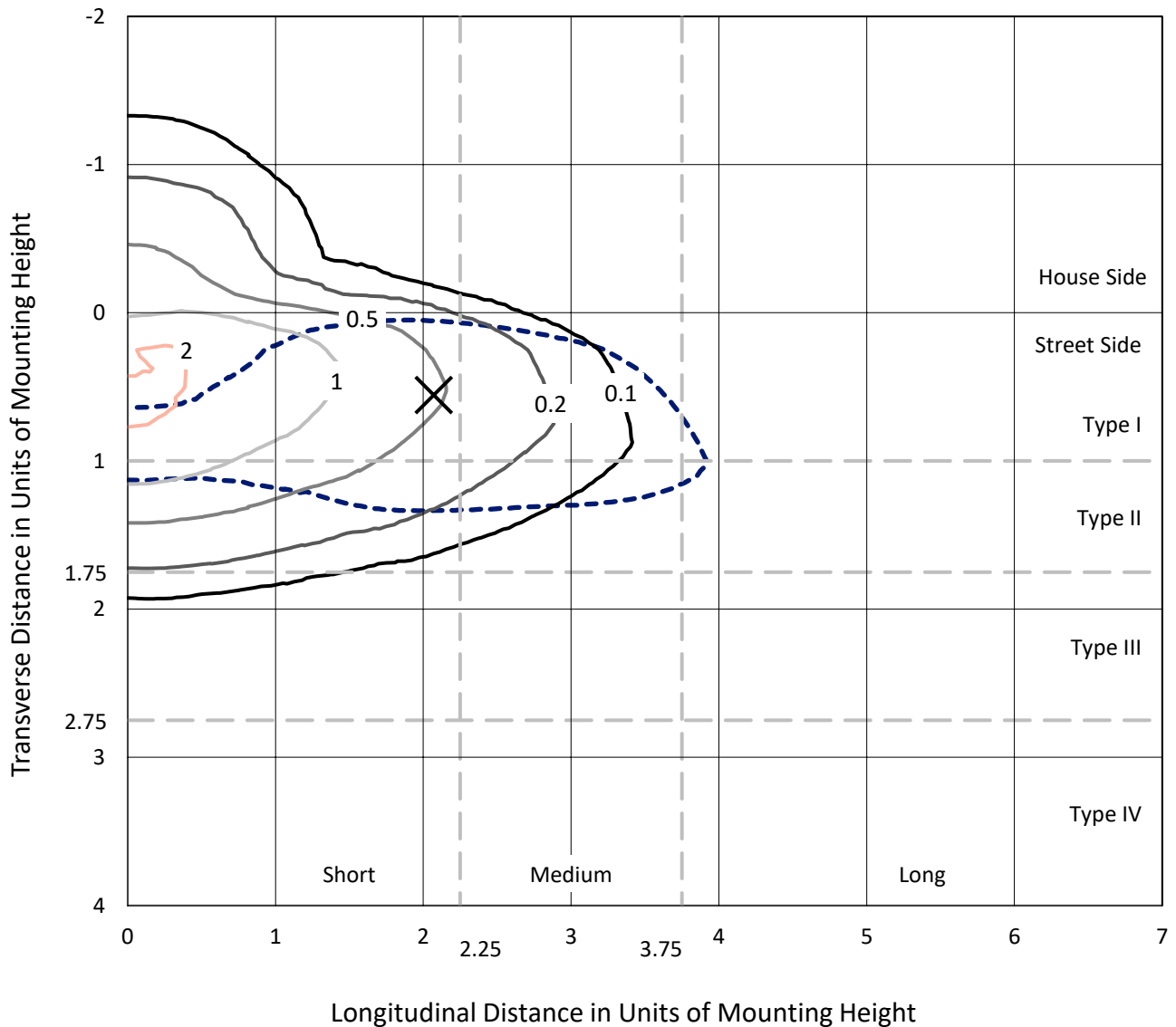
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

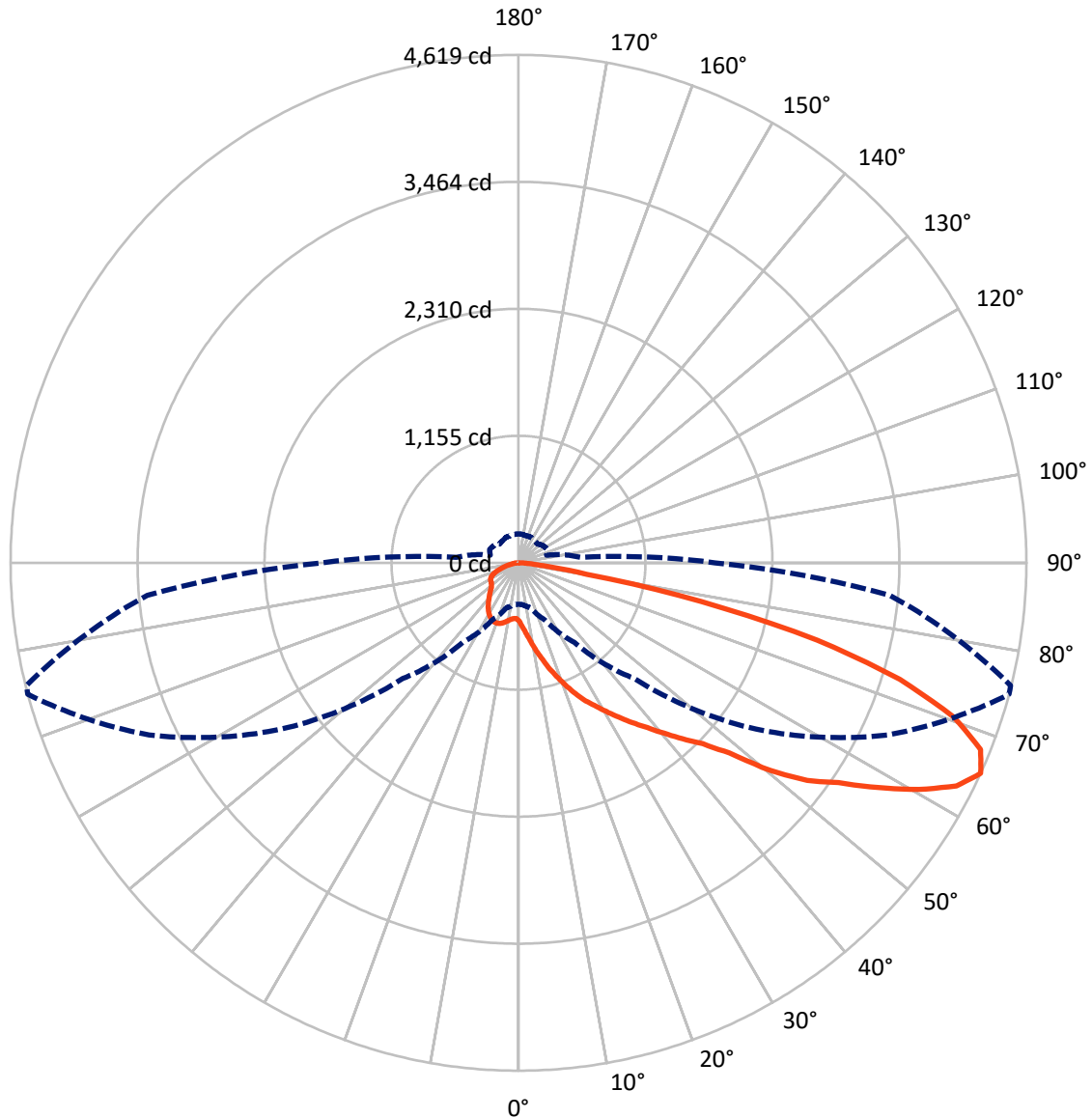
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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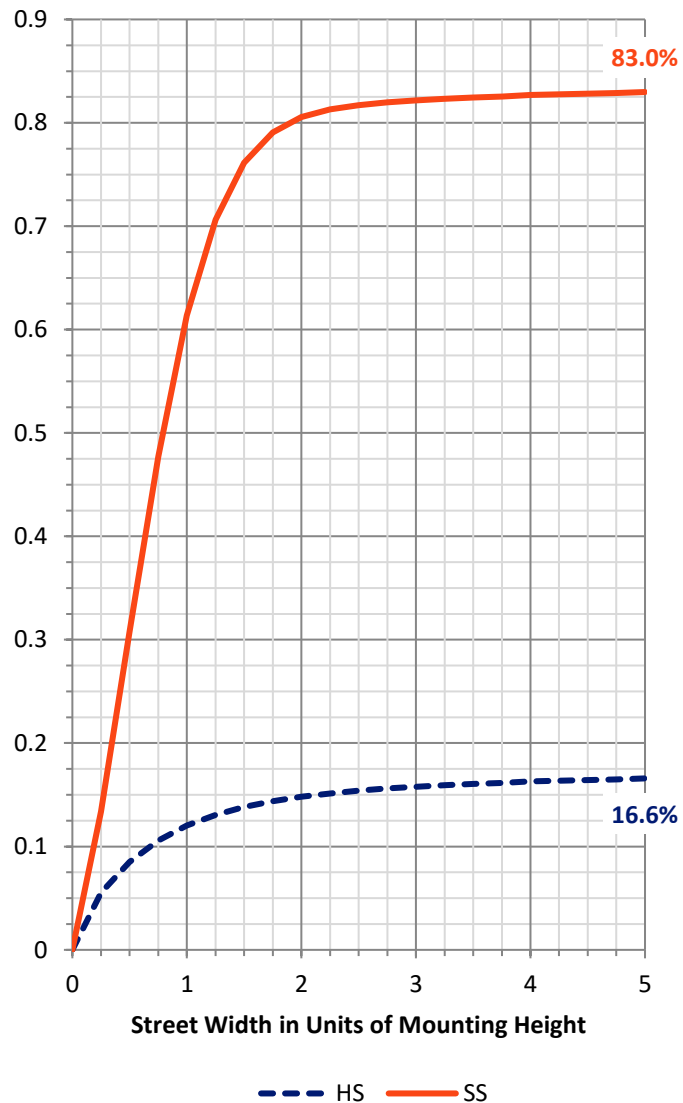
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 954.3 | 0.0 | 954.3 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 4722.4 | 0.0 | 4722.4 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 5676.8 | 0.0 | 5676.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.1 | 1.1 |
| 10°-20° | 251.0 | 4.4 |
| 20°-30° | 484.9 | 8.5 |
| 30°-40° | 787.5 | 13.9 |
| 40°-50° | 1083.3 | 19.1 |
| 50°-60° | 1279.1 | 22.5 |
| 60°-70° | 1120.7 | 19.7 |
| 70°-80° | 535.0 | 9.4 |
| 80°-90° | 71.2 | 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° | 5676.8 | 100.0 |
| 0°-180° | 5676.8 | 100.0 |

Coefficient of Utilization

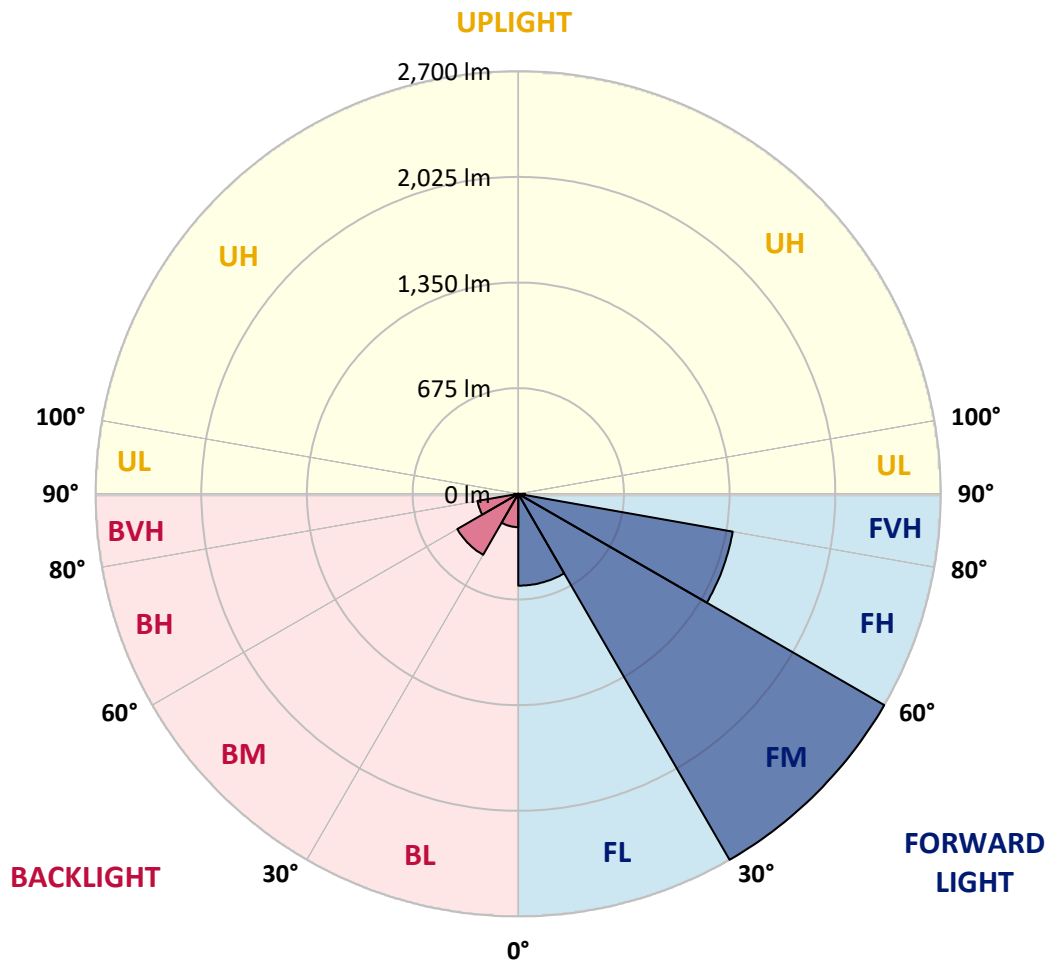


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 586.9 | 10.3 | | | |
| FM (30°-60°) | 2700.0 | 47.6 | | | |
| FH (60°-80°) | 1391.1 | 24.5 | | | G1/1800 |
| FVH (80°-90°) | 44.5 | 0.8 | | | G1/100 |
| BL (0°-30°) | 213.1 | 3.8 | B1/500 | | |
| BM (30°-60°) | 450.0 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 264.6 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.7 | 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° | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 |
| 2.5° | 700.8 | 696.2 | 691.2 | 677.7 | 663.2 | 646.9 | 623.5 | 601.0 | 571.2 | 570.3 | 548.1 |
| 5° | 895.0 | 892.0 | 870.1 | 857.5 | 824.0 | 779.3 | 741.4 | 682.6 | 628.1 | 621.6 | 578.6 |
| 7.5° | 1073.6 | 1061.7 | 1053.4 | 1030.6 | 997.3 | 940.1 | 866.8 | 787.3 | 696.2 | 687.6 | 616.1 |
| 10° | 1208.2 | 1207.0 | 1202.7 | 1183.0 | 1158.1 | 1101.1 | 1019.8 | 905.9 | 782.4 | 765.5 | 661.7 |
| 12.5° | 1308.9 | 1309.8 | 1309.2 | 1308.9 | 1291.0 | 1242.7 | 1154.6 | 1034.6 | 869.5 | 857.5 | 714.3 |
| 15° | 1375.1 | 1384.3 | 1388.0 | 1403.4 | 1404.9 | 1372.7 | 1296.9 | 1158.9 | 967.7 | 949.9 | 771.0 |
| 17.5° | 1418.8 | 1423.4 | 1440.7 | 1466.9 | 1488.1 | 1482.2 | 1414.8 | 1274.1 | 1068.1 | 1038.3 | 829.8 |
| 20° | 1460.7 | 1468.7 | 1482.0 | 1517.7 | 1555.2 | 1572.5 | 1525.0 | 1392.0 | 1167.6 | 1148.5 | 894.7 |
| 22.5° | 1547.8 | 1559.3 | 1563.9 | 1582.1 | 1614.1 | 1644.5 | 1623.0 | 1505.0 | 1276.6 | 1250.7 | 963.7 |
| 25° | 1695.4 | 1707.3 | 1694.4 | 1690.1 | 1700.6 | 1715.6 | 1711.0 | 1611.6 | 1379.4 | 1342.5 | 1029.0 |
| 27.5° | 1887.4 | 1889.0 | 1863.8 | 1839.7 | 1813.9 | 1806.1 | 1792.0 | 1706.1 | 1468.7 | 1437.9 | 1094.6 |
| 30° | 2093.7 | 2086.4 | 2044.5 | 2001.1 | 1957.3 | 1914.3 | 1873.6 | 1797.2 | 1568.2 | 1532.7 | 1158.9 |
| 32.5° | 2285.3 | 2281.3 | 2234.8 | 2167.3 | 2093.4 | 2052.8 | 1970.6 | 1889.3 | 1674.7 | 1640.5 | 1225.2 |
| 35° | 2428.8 | 2434.6 | 2383.5 | 2309.9 | 2229.2 | 2193.2 | 2089.4 | 1986.0 | 1784.9 | 1747.7 | 1297.2 |
| 37.5° | 2530.7 | 2527.6 | 2482.3 | 2418.6 | 2347.7 | 2316.3 | 2228.3 | 2091.6 | 1903.5 | 1867.8 | 1376.0 |
| 40° | 2567.0 | 2565.2 | 2531.6 | 2485.1 | 2440.1 | 2429.1 | 2373.7 | 2205.6 | 2039.2 | 1997.4 | 1470.9 |
| 42.5° | 2543.9 | 2547.9 | 2525.7 | 2513.1 | 2504.8 | 2512.8 | 2518.0 | 2354.9 | 2187.4 | 2148.9 | 1573.7 |
| 45° | 2473.1 | 2470.9 | 2467.9 | 2488.5 | 2535.3 | 2588.0 | 2660.9 | 2495.9 | 2348.4 | 2317.6 | 1711.6 |
| 47.5° | 2346.6 | 2361.9 | 2369.7 | 2426.6 | 2528.9 | 2653.5 | 2825.4 | 2684.9 | 2582.1 | 2555.3 | 1922.0 |
| 50° | 2169.5 | 2181.8 | 2227.4 | 2328.7 | 2481.1 | 2678.2 | 2986.0 | 2994.0 | 2971.9 | 2921.7 | 2150.4 |
| 52.5° | 1893.0 | 1912.1 | 2006.0 | 2191.7 | 2383.2 | 2668.0 | 3083.4 | 3259.2 | 3288.4 | 3250.9 | 2375.5 |
| 55° | 1583.5 | 1610.3 | 1709.5 | 1953.0 | 2248.3 | 2612.6 | 3150.5 | 3412.8 | 3529.5 | 3494.8 | 2592.3 |
| 57.5° | 1280.6 | 1308.9 | 1410.8 | 1646.6 | 2013.1 | 2490.0 | 3194.5 | 3584.0 | 3857.8 | 3812.5 | 2861.9 |
| 60° | 959.7 | 989.3 | 1076.8 | 1319.7 | 1678.0 | 2250.5 | 3164.7 | 3732.4 | 4185.7 | 4166.3 | 3132.0 |
| 62.5° | 619.2 | 651.8 | 727.9 | 929.0 | 1289.8 | 1923.2 | 3004.8 | 3814.3 | 4469.5 | 4446.2 | 3329.1 |
| 65° | 377.2 | 380.9 | 422.7 | 576.7 | 882.8 | 1489.0 | 2639.3 | 3705.6 | 4619.2 | 4612.1 | 3389.1 |
| 67.5° | 243.8 | 249.7 | 268.8 | 345.5 | 529.3 | 1034.3 | 2110.4 | 3346.9 | 4531.8 | 4529.3 | 3265.0 |
| 70° | 206.0 | 207.8 | 216.4 | 233.1 | 307.6 | 627.2 | 1482.0 | 2775.2 | 4199.5 | 4199.5 | 2966.6 |
| 72.5° | 184.2 | 186.6 | 189.6 | 194.9 | 219.6 | 355.3 | 884.3 | 2160.3 | 3625.9 | 3649.9 | 2525.1 |
| 75° | 167.2 | 166.5 | 168.4 | 169.4 | 187.2 | 232.2 | 457.3 | 1597.7 | 2805.0 | 2757.0 | 1828.6 |
| 77.5° | 143.2 | 144.1 | 143.2 | 147.2 | 165.4 | 176.7 | 232.2 | 1072.2 | 1700.0 | 1637.7 | 917.8 |
| 80° | 117.6 | 119.2 | 120.7 | 123.2 | 141.3 | 134.3 | 139.5 | 488.7 | 628.7 | 615.5 | 283.6 |
| 82.5° | 88.4 | 90.5 | 93.0 | 98.8 | 111.2 | 88.7 | 88.1 | 208.7 | 226.9 | 207.8 | 104.4 |
| 85° | 35.7 | 42.2 | 63.7 | 69.6 | 69.9 | 48.6 | 54.2 | 87.1 | 92.7 | 90.5 | 41.0 |
| 87.5° | 8.3 | 9.9 | 20.6 | 31.1 | 28.7 | 18.2 | 20.0 | 28.3 | 32.3 | 29.8 | 13.9 |
| 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° | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 | 527.4 |
| 2.5° | 537.9 | 527.1 | 508.6 | 494.5 | 484.4 | 475.4 | 469.9 | 466.5 | 465.3 | 464.9 | 465.3 |
| 5° | 556.1 | 537.0 | 507.7 | 489.3 | 479.1 | 473.2 | 469.9 | 469.6 | 469.9 | 470.2 | 469.3 |
| 7.5° | 581.0 | 553.6 | 515.4 | 498.2 | 490.5 | 486.2 | 484.7 | 484.1 | 484.4 | 484.1 | 484.1 |
| 10° | 614.3 | 576.7 | 530.5 | 512.6 | 506.2 | 501.3 | 498.8 | 497.3 | 496.0 | 494.8 | 494.2 |
| 12.5° | 650.9 | 602.3 | 546.8 | 529.6 | 520.4 | 512.6 | 507.1 | 503.2 | 500.3 | 497.6 | 497.0 |
| 15° | 691.9 | 629.4 | 565.0 | 541.0 | 527.7 | 516.4 | 506.8 | 500.3 | 495.4 | 491.4 | 491.1 |
| 17.5° | 730.9 | 654.9 | 577.3 | 546.2 | 526.8 | 510.8 | 498.2 | 489.3 | 483.1 | 477.9 | 477.2 |
| 20° | 772.8 | 679.3 | 582.9 | 542.9 | 517.6 | 498.2 | 481.5 | 470.8 | 463.7 | 457.8 | 457.0 |
| 22.5° | 815.0 | 699.8 | 582.2 | 532.0 | 501.6 | 478.8 | 461.3 | 449.8 | 441.5 | 435.7 | 433.5 |
| 25° | 855.3 | 716.5 | 574.6 | 514.8 | 479.4 | 455.7 | 437.9 | 427.4 | 420.0 | 412.9 | 412.9 |
| 27.5° | 891.7 | 726.3 | 560.1 | 493.9 | 456.6 | 431.7 | 417.5 | 407.9 | 401.2 | 396.6 | 393.8 |
| 30° | 927.4 | 730.9 | 540.3 | 467.4 | 432.6 | 411.4 | 400.0 | 394.4 | 388.3 | 383.0 | 382.4 |
| 32.5° | 959.4 | 730.1 | 515.8 | 441.5 | 409.8 | 394.7 | 390.1 | 385.8 | 379.4 | 371.9 | 370.1 |
| 35° | 990.5 | 723.9 | 486.5 | 413.2 | 390.7 | 384.8 | 386.1 | 380.0 | 368.2 | 359.0 | 357.4 |
| 37.5° | 1024.4 | 712.8 | 454.5 | 390.1 | 374.7 | 380.2 | 383.4 | 369.8 | 350.7 | 336.2 | 332.9 |
| 40° | 1063.5 | 700.2 | 421.2 | 367.0 | 362.1 | 375.9 | 375.9 | 351.0 | 324.9 | 315.9 | 313.4 |
| 42.5° | 1109.4 | 689.7 | 393.5 | 347.7 | 351.6 | 365.5 | 363.9 | 326.0 | 315.3 | 310.7 | 309.4 |
| 45° | 1182.0 | 686.0 | 364.9 | 330.7 | 343.0 | 353.1 | 340.5 | 317.4 | 311.3 | 307.6 | 306.4 |
| 47.5° | 1296.9 | 690.3 | 339.6 | 318.1 | 333.2 | 340.8 | 314.4 | 311.6 | 307.3 | 302.1 | 301.5 |
| 50° | 1403.4 | 686.3 | 321.7 | 311.0 | 324.6 | 326.0 | 303.6 | 304.5 | 302.1 | 296.2 | 295.0 |
| 52.5° | 1490.6 | 673.7 | 310.4 | 307.3 | 317.1 | 300.2 | 293.5 | 296.8 | 295.9 | 288.5 | 287.3 |
| 55° | 1586.4 | 666.0 | 304.8 | 307.3 | 312.2 | 277.7 | 283.9 | 288.8 | 287.6 | 282.3 | 282.0 |
| 57.5° | 1702.4 | 667.5 | 300.8 | 308.2 | 307.3 | 266.4 | 274.4 | 280.2 | 279.9 | 278.4 | 278.4 |
| 60° | 1821.3 | 668.1 | 294.6 | 307.9 | 301.5 | 257.4 | 264.5 | 272.8 | 273.4 | 274.4 | 274.4 |
| 62.5° | 1860.6 | 641.4 | 282.7 | 302.4 | 288.5 | 248.8 | 255.3 | 266.6 | 266.1 | 268.5 | 268.8 |
| 65° | 1787.1 | 567.1 | 264.8 | 289.7 | 271.9 | 242.7 | 248.1 | 258.6 | 255.3 | 261.8 | 262.9 |
| 67.5° | 1626.7 | 469.3 | 237.1 | 266.9 | 253.4 | 236.2 | 243.6 | 247.6 | 241.4 | 254.0 | 254.3 |
| 70° | 1405.9 | 366.4 | 202.0 | 234.6 | 232.5 | 229.4 | 239.8 | 233.7 | 225.1 | 240.5 | 237.4 |
| 72.5° | 1175.6 | 279.9 | 161.4 | 191.8 | 204.4 | 219.2 | 233.4 | 215.9 | 203.8 | 208.4 | 202.9 |
| 75° | 883.1 | 206.9 | 129.7 | 150.3 | 170.3 | 204.8 | 227.5 | 194.3 | 175.8 | 171.5 | 170.3 |
| 77.5° | 450.1 | 135.1 | 97.0 | 112.4 | 127.8 | 185.0 | 219.6 | 169.0 | 145.6 | 138.9 | 135.8 |
| 80° | 160.7 | 84.1 | 68.4 | 77.6 | 86.2 | 159.2 | 191.8 | 139.8 | 113.0 | 111.7 | 113.0 |
| 82.5° | 74.5 | 54.2 | 45.9 | 50.8 | 51.1 | 106.3 | 146.3 | 104.4 | 85.9 | 130.5 | 110.2 |
| 85° | 32.0 | 27.1 | 25.8 | 25.2 | 23.4 | 47.4 | 82.2 | 56.1 | 87.5 | 39.1 | 36.0 |
| 87.5° | 9.6 | 10.8 | 9.6 | 7.0 | 5.2 | 5.2 | 8.3 | 3.1 | 2.2 | 1.6 | 1.6 |
| 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)