

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: P649715

Luminaire Tested: **GLAN-SA1A-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3644.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

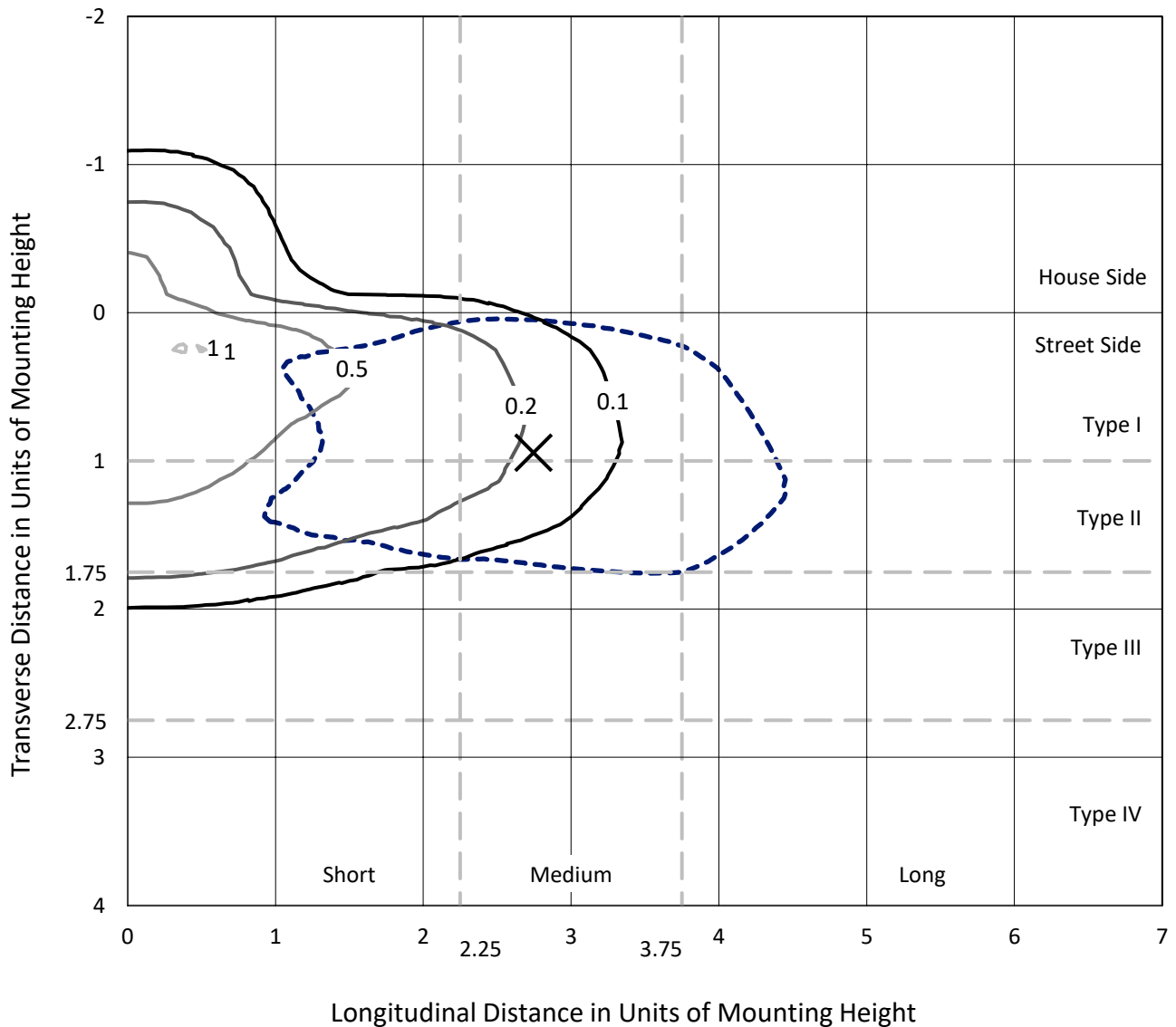
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

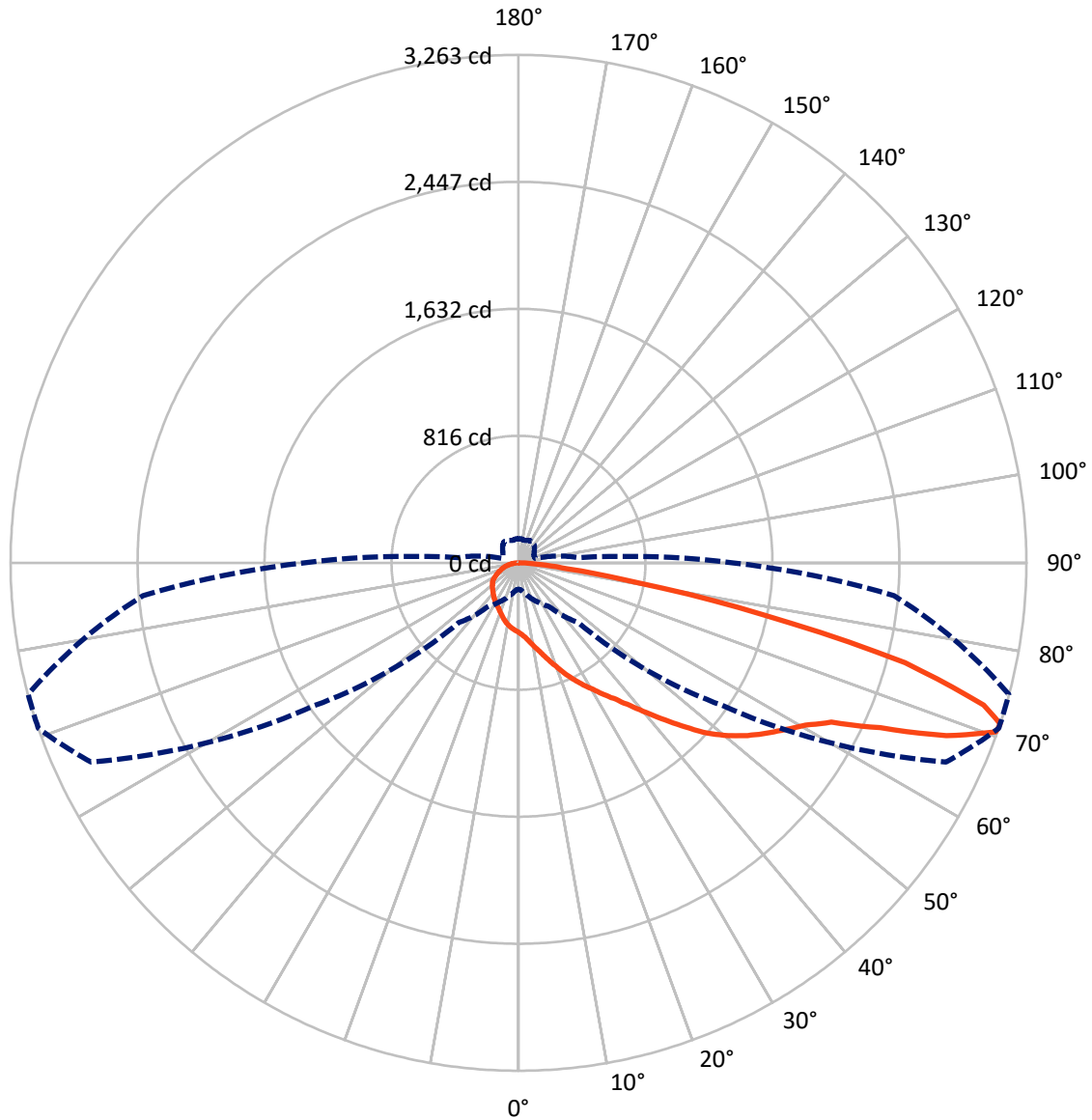
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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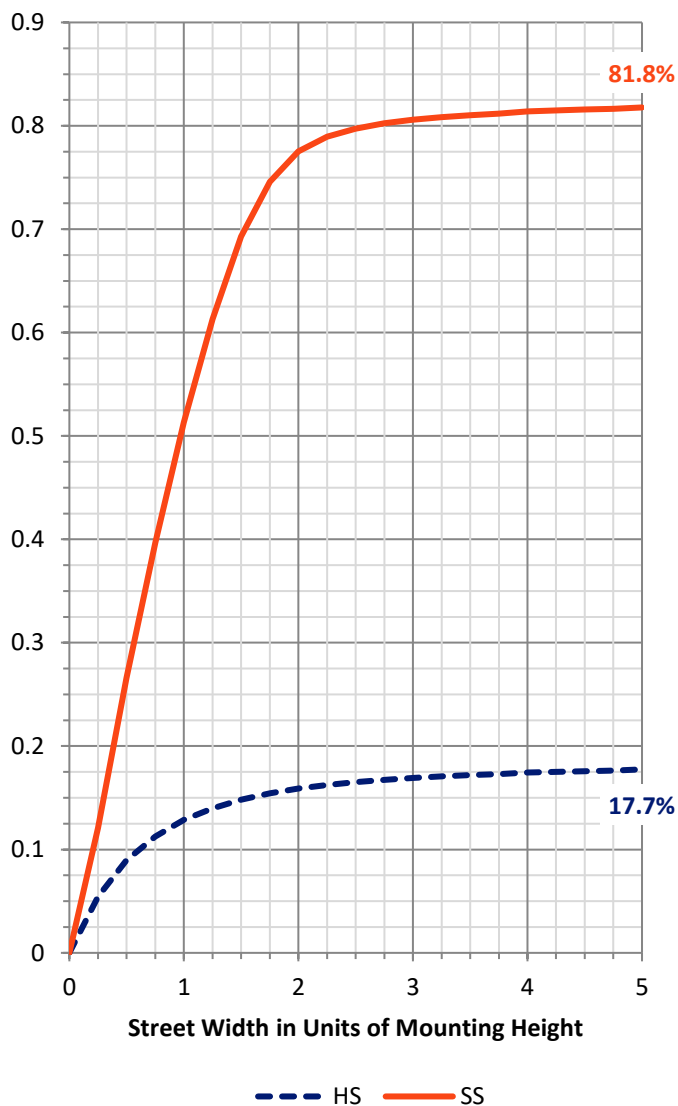
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 655.4 | 0.0 | 655.4 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 2988.7 | 0.0 | 2988.7 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 3644.1 | 0.0 | 3644.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.9 | 1.2 |
| 10°-20° | 145.9 | 4.0 |
| 20°-30° | 255.0 | 7.0 |
| 30°-40° | 379.2 | 10.4 |
| 40°-50° | 558.7 | 15.3 |
| 50°-60° | 782.2 | 21.5 |
| 60°-70° | 874.9 | 24.0 |
| 70°-80° | 534.4 | 14.7 |
| 80°-90° | 68.7 | 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° | 3644.1 | 100.0 |
| 0°-180° | 3644.1 | 100.0 |

Coefficient of Utilization

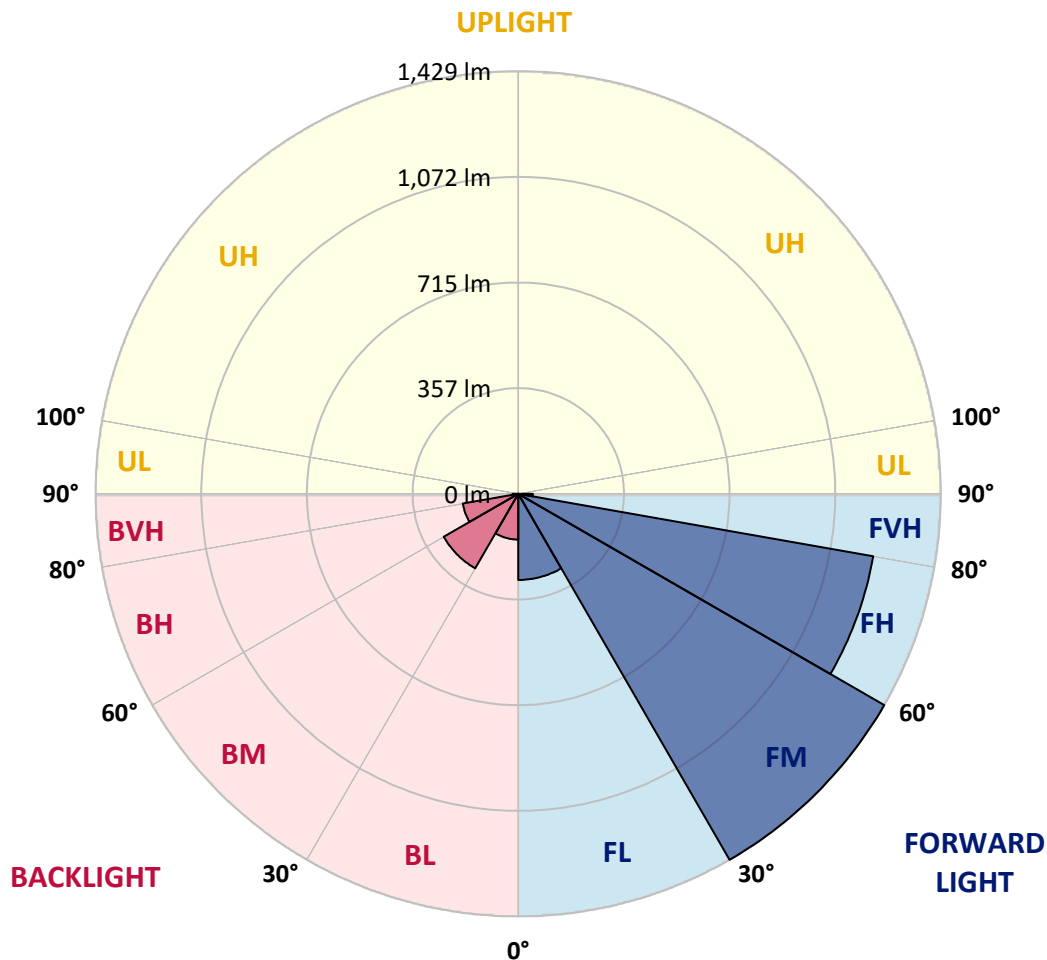


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 291.2 | 8.0 | | | |
| FM (30°-60°) | 1429.1 | 39.2 | | | |
| FH (60°-80°) | 1218.9 | 33.4 | | | G1/1800 |
| FVH (80°-90°) | 49.5 | 1.4 | | | G1/100 |
| BL (0°-30°) | 154.6 | 4.2 | B1/500 | | |
| BM (30°-60°) | 291.1 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 190.4 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.3 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 |
| 2.5° | 496.5 | 494.1 | 494.3 | 490.9 | 486.5 | 481.7 | 474.9 | 468.9 | 464.1 | 461.3 | 453.0 |
| 5° | 550.2 | 547.8 | 544.8 | 537.4 | 534.2 | 522.3 | 507.3 | 493.7 | 483.3 | 477.5 | 461.0 |
| 7.5° | 593.7 | 593.0 | 592.3 | 588.0 | 579.8 | 563.4 | 550.6 | 527.0 | 511.5 | 500.5 | 472.5 |
| 10° | 620.4 | 621.5 | 622.1 | 622.9 | 619.5 | 610.9 | 593.3 | 563.4 | 543.8 | 529.8 | 487.3 |
| 12.5° | 634.1 | 635.1 | 638.5 | 645.9 | 650.5 | 649.5 | 635.1 | 605.9 | 578.8 | 560.4 | 503.2 |
| 15° | 642.5 | 644.1 | 650.1 | 659.9 | 675.3 | 685.2 | 678.2 | 651.1 | 621.5 | 599.6 | 521.9 |
| 17.5° | 651.8 | 653.6 | 660.1 | 674.2 | 694.4 | 715.6 | 723.3 | 700.0 | 667.7 | 641.7 | 543.0 |
| 20° | 656.9 | 659.4 | 668.8 | 687.2 | 710.8 | 741.7 | 766.9 | 754.7 | 719.4 | 690.6 | 567.2 |
| 22.5° | 665.3 | 667.4 | 675.3 | 695.0 | 723.3 | 761.9 | 810.6 | 808.0 | 776.9 | 739.6 | 593.8 |
| 25° | 688.2 | 691.4 | 695.4 | 707.2 | 734.5 | 782.5 | 846.8 | 864.8 | 832.6 | 790.9 | 618.3 |
| 27.5° | 731.2 | 733.8 | 733.7 | 735.2 | 750.7 | 800.4 | 878.3 | 921.1 | 887.8 | 842.8 | 641.9 |
| 30° | 780.3 | 781.4 | 782.1 | 778.5 | 781.9 | 818.5 | 907.1 | 976.8 | 943.5 | 896.1 | 662.6 |
| 32.5° | 840.0 | 842.0 | 835.2 | 826.0 | 823.2 | 845.6 | 930.9 | 1032.5 | 1009.4 | 950.2 | 683.0 |
| 35° | 910.5 | 915.7 | 901.9 | 885.7 | 874.2 | 884.5 | 963.0 | 1089.4 | 1076.9 | 1019.2 | 710.0 |
| 37.5° | 991.0 | 997.5 | 984.6 | 952.8 | 936.5 | 939.4 | 1004.8 | 1159.6 | 1162.3 | 1098.0 | 750.3 |
| 40° | 1056.9 | 1065.3 | 1065.7 | 1020.6 | 996.1 | 999.3 | 1057.9 | 1235.3 | 1265.2 | 1195.3 | 797.7 |
| 42.5° | 1100.3 | 1108.6 | 1117.2 | 1090.8 | 1065.0 | 1083.1 | 1119.8 | 1317.5 | 1381.0 | 1313.5 | 864.0 |
| 45° | 1148.0 | 1155.5 | 1160.2 | 1148.3 | 1133.8 | 1181.1 | 1194.5 | 1404.8 | 1504.4 | 1445.5 | 936.5 |
| 47.5° | 1203.3 | 1211.5 | 1216.2 | 1204.7 | 1199.3 | 1267.0 | 1275.0 | 1486.3 | 1636.2 | 1573.7 | 1016.6 |
| 50° | 1277.0 | 1283.3 | 1280.8 | 1273.6 | 1272.5 | 1332.9 | 1352.3 | 1562.6 | 1744.9 | 1711.6 | 1099.8 |
| 52.5° | 1368.8 | 1376.2 | 1378.8 | 1368.5 | 1364.0 | 1380.0 | 1414.6 | 1632.2 | 1843.8 | 1830.2 | 1188.5 |
| 55° | 1424.2 | 1436.0 | 1475.7 | 1491.7 | 1502.7 | 1440.9 | 1481.7 | 1708.8 | 1932.6 | 1955.2 | 1283.8 |
| 57.5° | 1353.1 | 1368.4 | 1457.1 | 1537.2 | 1640.8 | 1593.1 | 1576.9 | 1788.9 | 2021.3 | 2076.4 | 1398.0 |
| 60° | 1179.7 | 1183.1 | 1297.4 | 1445.0 | 1653.4 | 1788.8 | 1775.4 | 1916.3 | 2117.4 | 2198.5 | 1548.4 |
| 62.5° | 818.4 | 825.6 | 960.7 | 1196.3 | 1497.6 | 1859.2 | 2113.0 | 2136.3 | 2255.2 | 2381.4 | 1769.0 |
| 65° | 422.0 | 412.6 | 535.7 | 751.8 | 1129.0 | 1691.8 | 2386.6 | 2540.6 | 2554.1 | 2667.4 | 2079.3 |
| 67.5° | 259.8 | 263.9 | 321.7 | 439.0 | 667.6 | 1229.5 | 2358.0 | 3034.8 | 2964.0 | 3018.5 | 2367.6 |
| 70° | 195.0 | 200.3 | 239.9 | 300.4 | 407.0 | 703.0 | 1896.3 | 3154.5 | 3253.3 | 3239.2 | 2455.3 |
| 71° | 169.7 | 175.1 | 216.3 | 273.4 | 341.9 | 542.5 | 1597.7 | 3029.1 | 3263.2 | 3260.9 | 2422.3 |
| 72.5° | 144.6 | 148.0 | 180.2 | 231.5 | 288.2 | 380.4 | 1200.3 | 2716.7 | 3124.1 | 3204.0 | 2304.3 |
| 75° | 113.5 | 116.2 | 130.6 | 176.6 | 226.9 | 233.6 | 644.1 | 2036.7 | 2565.9 | 2718.1 | 1918.4 |
| 77.5° | 92.6 | 94.4 | 101.7 | 131.2 | 175.1 | 165.4 | 337.9 | 1325.7 | 1607.5 | 1760.7 | 1130.0 |
| 80° | 73.5 | 75.5 | 79.9 | 88.9 | 131.2 | 118.0 | 161.2 | 671.7 | 776.5 | 774.9 | 451.0 |
| 82.5° | 57.1 | 57.7 | 62.9 | 65.3 | 89.7 | 83.7 | 87.3 | 284.4 | 315.1 | 325.5 | 162.9 |
| 85° | 36.0 | 37.8 | 55.7 | 50.0 | 53.7 | 49.1 | 43.1 | 113.0 | 139.2 | 137.2 | 65.1 |
| 87.5° | 11.0 | 11.6 | 18.8 | 21.2 | 23.8 | 21.5 | 15.8 | 33.3 | 40.6 | 44.1 | 16.2 |
| 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° | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 |
| 2.5° | 449.8 | 447.6 | 439.8 | 433.4 | 427.4 | 420.8 | 415.2 | 413.6 | 412.2 | 411.6 | 411.4 |
| 5° | 454.1 | 447.4 | 432.0 | 419.4 | 409.4 | 400.2 | 394.4 | 391.7 | 389.2 | 389.2 | 389.9 |
| 7.5° | 460.1 | 448.0 | 424.2 | 405.4 | 392.8 | 384.1 | 379.9 | 379.5 | 380.1 | 380.8 | 380.9 |
| 10° | 466.7 | 447.6 | 412.8 | 389.4 | 378.1 | 374.1 | 374.4 | 377.7 | 380.9 | 383.4 | 383.7 |
| 12.5° | 473.1 | 445.2 | 399.4 | 374.4 | 367.1 | 367.9 | 373.6 | 381.2 | 387.4 | 390.8 | 391.0 |
| 15° | 480.3 | 441.5 | 383.1 | 360.1 | 357.7 | 363.9 | 374.4 | 385.9 | 395.3 | 401.0 | 401.6 |
| 17.5° | 486.3 | 435.0 | 366.1 | 346.3 | 349.3 | 360.7 | 375.1 | 390.2 | 401.6 | 408.6 | 409.8 |
| 20° | 493.1 | 426.8 | 348.5 | 333.1 | 341.7 | 357.1 | 373.6 | 389.8 | 401.6 | 408.4 | 410.0 |
| 22.5° | 498.5 | 415.2 | 331.7 | 322.3 | 334.9 | 352.7 | 368.1 | 381.2 | 390.8 | 394.4 | 396.7 |
| 25° | 500.7 | 400.6 | 315.9 | 313.4 | 329.5 | 345.5 | 355.9 | 363.3 | 366.3 | 365.9 | 366.9 |
| 27.5° | 499.5 | 383.7 | 302.2 | 306.5 | 322.7 | 334.3 | 339.5 | 338.9 | 333.5 | 328.5 | 330.9 |
| 30° | 494.5 | 363.7 | 290.8 | 299.3 | 313.8 | 320.2 | 319.5 | 311.6 | 301.5 | 292.0 | 292.6 |
| 32.5° | 485.5 | 342.1 | 280.2 | 291.0 | 301.5 | 304.3 | 298.8 | 288.6 | 274.0 | 261.8 | 260.0 |
| 35° | 477.9 | 321.4 | 270.8 | 281.6 | 289.0 | 287.6 | 282.4 | 269.2 | 256.0 | 245.2 | 243.4 |
| 37.5° | 476.7 | 303.8 | 261.8 | 271.0 | 275.2 | 273.2 | 266.8 | 255.6 | 250.8 | 242.6 | 241.6 |
| 40° | 483.1 | 291.4 | 252.6 | 259.8 | 261.8 | 260.2 | 253.1 | 246.7 | 251.2 | 249.2 | 249.2 |
| 42.5° | 500.5 | 284.8 | 244.4 | 248.5 | 250.2 | 251.3 | 246.3 | 240.9 | 246.3 | 237.2 | 234.1 |
| 45° | 528.1 | 285.0 | 236.9 | 237.6 | 242.3 | 246.6 | 243.1 | 235.1 | 232.3 | 213.9 | 210.3 |
| 47.5° | 568.8 | 291.8 | 230.9 | 227.1 | 235.8 | 242.7 | 238.0 | 226.3 | 213.9 | 201.7 | 199.5 |
| 50° | 616.3 | 304.0 | 225.5 | 216.3 | 226.9 | 238.0 | 234.4 | 220.7 | 207.9 | 200.4 | 199.1 |
| 52.5° | 669.0 | 319.5 | 218.9 | 204.3 | 216.1 | 235.8 | 235.1 | 219.9 | 202.3 | 197.3 | 196.1 |
| 55° | 734.1 | 334.7 | 210.7 | 190.3 | 206.5 | 234.0 | 232.9 | 213.3 | 201.1 | 197.5 | 197.1 |
| 57.5° | 809.8 | 356.7 | 198.9 | 176.0 | 195.5 | 226.5 | 224.3 | 209.3 | 197.1 | 194.5 | 194.3 |
| 60° | 931.8 | 391.0 | 182.0 | 163.0 | 184.2 | 213.5 | 216.3 | 202.5 | 190.7 | 190.0 | 189.9 |
| 62.5° | 1092.1 | 439.0 | 164.7 | 149.6 | 171.2 | 196.7 | 204.7 | 193.2 | 183.8 | 186.9 | 187.3 |
| 65° | 1313.6 | 479.5 | 146.6 | 138.2 | 156.8 | 180.5 | 193.7 | 184.6 | 176.3 | 182.0 | 182.0 |
| 67.5° | 1458.1 | 480.3 | 130.2 | 126.4 | 142.2 | 166.9 | 182.0 | 174.5 | 166.5 | 176.3 | 176.6 |
| 70° | 1428.0 | 420.8 | 116.6 | 113.9 | 128.0 | 152.2 | 169.2 | 163.3 | 154.0 | 162.9 | 159.7 |
| 71° | 1379.6 | 387.7 | 111.2 | 109.2 | 122.4 | 145.2 | 163.3 | 158.2 | 149.0 | 154.8 | 153.0 |
| 72.5° | 1302.3 | 336.7 | 102.3 | 102.7 | 113.9 | 136.4 | 154.8 | 149.6 | 140.4 | 143.6 | 143.0 |
| 75° | 1100.7 | 294.0 | 87.5 | 89.3 | 98.0 | 121.4 | 138.0 | 134.0 | 124.6 | 124.6 | 123.9 |
| 77.5° | 688.2 | 205.5 | 72.7 | 73.7 | 83.2 | 104.0 | 118.5 | 115.2 | 106.2 | 103.1 | 102.3 |
| 80° | 256.7 | 106.2 | 56.8 | 58.1 | 63.9 | 81.9 | 98.1 | 94.9 | 85.7 | 82.3 | 79.1 |
| 82.5° | 97.2 | 53.2 | 41.9 | 40.9 | 47.1 | 62.5 | 76.9 | 73.1 | 65.9 | 57.7 | 55.3 |
| 85° | 36.6 | 26.5 | 25.6 | 24.8 | 27.6 | 37.0 | 47.7 | 46.9 | 39.2 | 33.4 | 32.9 |
| 87.5° | 9.6 | 8.6 | 10.0 | 7.4 | 7.8 | 7.0 | 7.2 | 3.0 | 1.4 | 0.6 | 0.4 |
| 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)