

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: P654221

Luminaire Tested: **GLAN-SA2B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6364.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

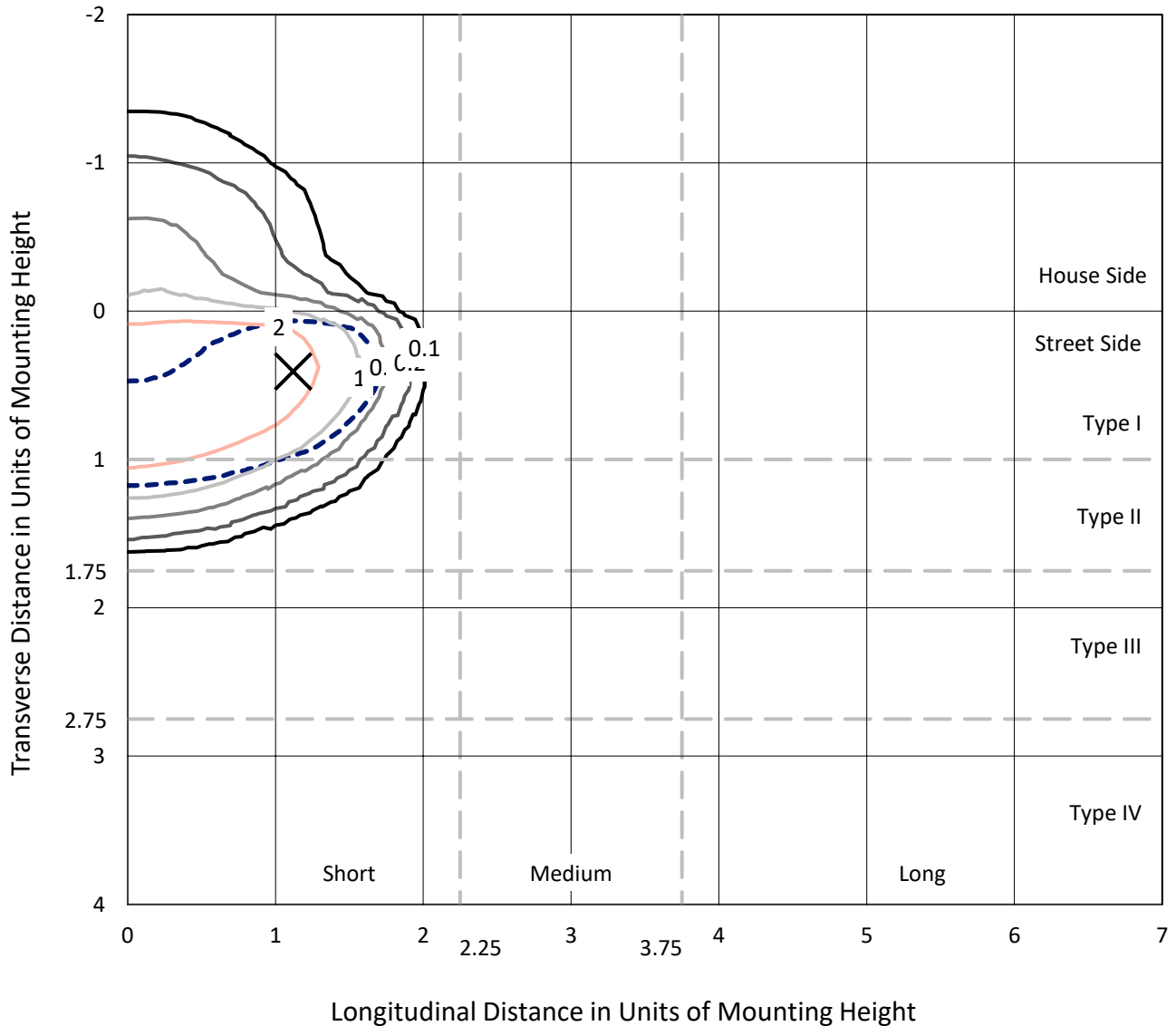
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

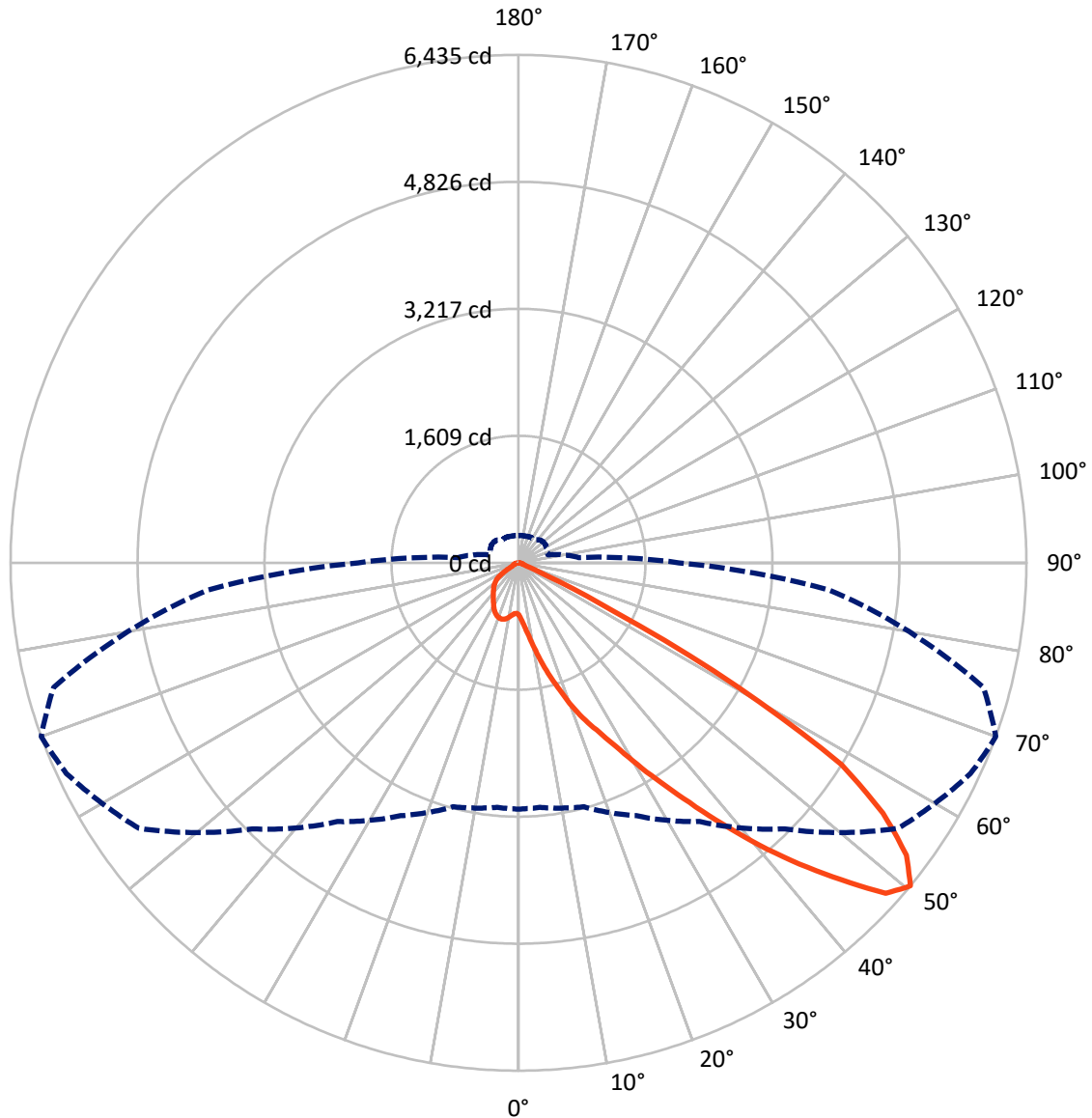
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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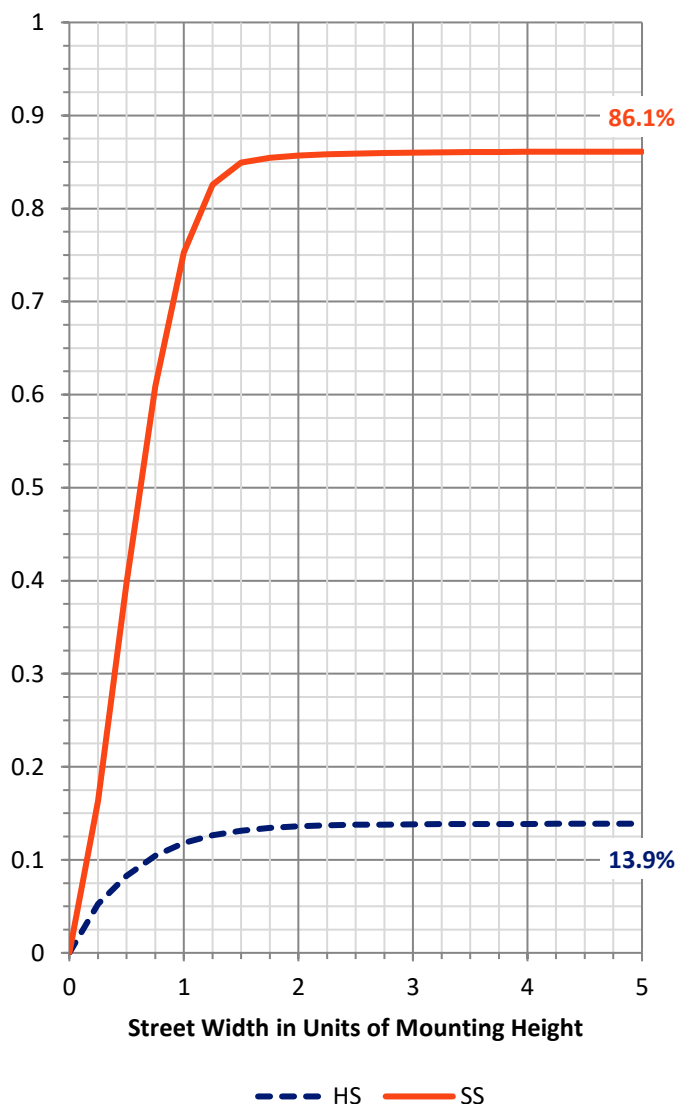
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 888.9 | 0.0 | 888.9 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 5475.8 | 0.0 | 5475.8 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 6364.7 | 0.0 | 6364.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.7 | 1.3 |
| 10°-20° | 370.8 | 5.8 |
| 20°-30° | 777.9 | 12.2 |
| 30°-40° | 1340.9 | 21.1 |
| 40°-50° | 1959.7 | 30.8 |
| 50°-60° | 1526.3 | 24.0 |
| 60°-70° | 258.6 | 4.1 |
| 70°-80° | 35.5 | 0.6 |
| 80°-90° | 9.2 | 0.1 |
| 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° | 6364.7 | 100.0 |
| 0°-180° | 6364.7 | 100.0 |

Coefficient of Utilization

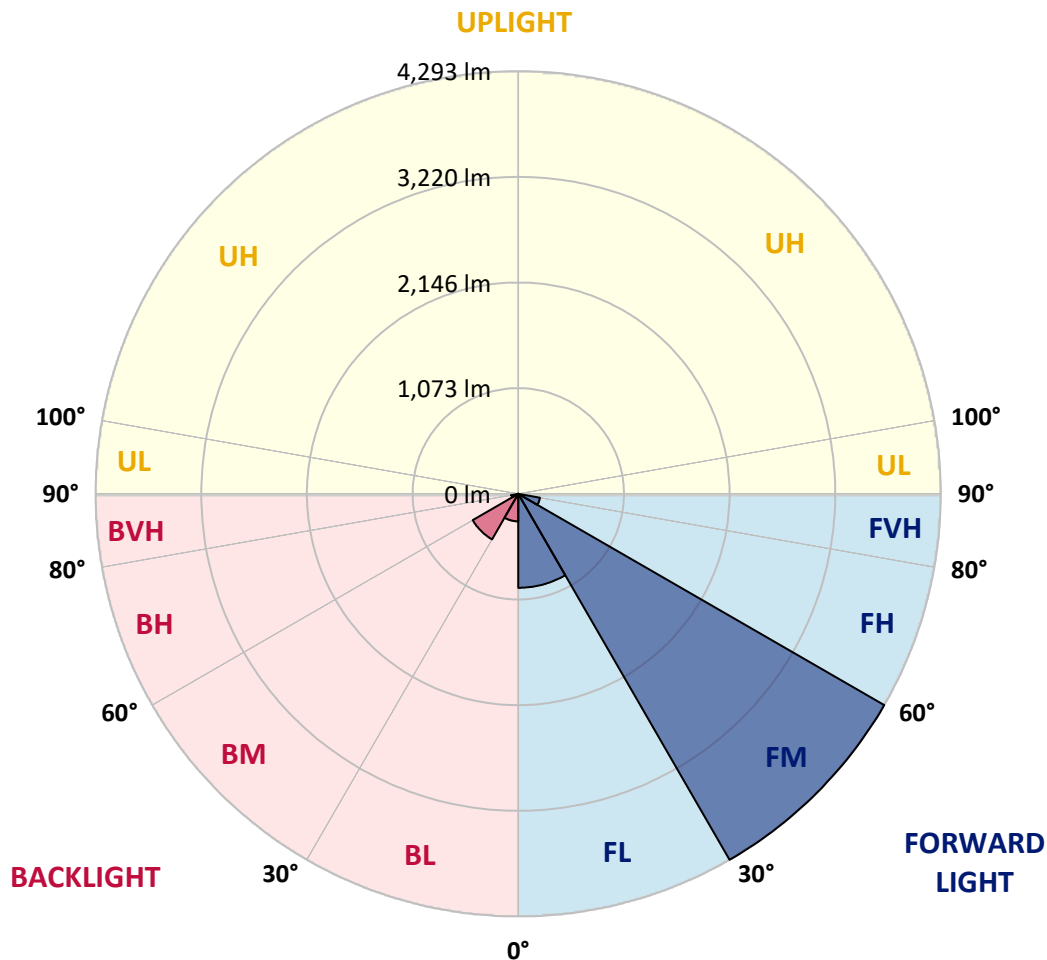


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 954.8 | 15.0 | | | |
| FM (30°-60°) | 4292.9 | 67.4 | | | |
| FH (60°-80°) | 223.9 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 4.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 279.7 | 4.4 | B1/500 | | |
| BM (30°-60°) | 534.0 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 70.2 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 |
| 2.5° | 863.3 | 857.1 | 843.4 | 818.3 | 807.9 | 782.7 | 768.1 | 739.8 | 722.1 | 702.2 | 680.2 |
| 5° | 1216.0 | 1183.5 | 1163.6 | 1135.4 | 1052.7 | 1001.5 | 916.7 | 844.4 | 811.0 | 774.4 | 724.1 |
| 7.5° | 1580.2 | 1559.2 | 1532.0 | 1471.3 | 1414.8 | 1308.0 | 1162.6 | 1003.6 | 935.5 | 872.7 | 773.3 |
| 10° | 1881.5 | 1822.9 | 1819.8 | 1774.8 | 1713.0 | 1585.4 | 1410.6 | 1212.8 | 1091.4 | 999.4 | 843.4 |
| 12.5° | 2091.8 | 2038.5 | 2062.6 | 2057.3 | 1999.7 | 1882.6 | 1680.6 | 1418.9 | 1292.4 | 1149.0 | 915.6 |
| 15° | 2283.3 | 2261.4 | 2254.0 | 2247.7 | 2224.7 | 2137.9 | 1956.8 | 1670.1 | 1487.0 | 1314.3 | 997.3 |
| 17.5° | 2470.6 | 2414.2 | 2441.3 | 2446.6 | 2444.5 | 2366.0 | 2196.4 | 1908.7 | 1693.1 | 1489.1 | 1083.0 |
| 20° | 2637.0 | 2642.3 | 2605.7 | 2598.3 | 2592.0 | 2588.9 | 2423.6 | 2145.2 | 1946.4 | 1672.2 | 1195.1 |
| 22.5° | 2850.5 | 2813.9 | 2846.3 | 2825.4 | 2784.6 | 2759.5 | 2632.8 | 2354.5 | 2166.2 | 1893.0 | 1309.1 |
| 25° | 3102.7 | 3132.0 | 3055.6 | 3047.2 | 3002.2 | 2915.4 | 2801.3 | 2588.9 | 2377.5 | 2098.1 | 1432.6 |
| 27.5° | 3413.5 | 3362.2 | 3342.3 | 3296.3 | 3214.6 | 3178.1 | 3044.1 | 2830.6 | 2632.8 | 2313.7 | 1551.9 |
| 30° | 3680.3 | 3666.8 | 3567.3 | 3512.9 | 3441.7 | 3440.7 | 3253.4 | 3158.1 | 2965.6 | 2651.7 | 1716.1 |
| 32.5° | 3898.0 | 3838.3 | 3801.7 | 3764.1 | 3706.5 | 3722.2 | 3564.2 | 3514.0 | 3320.4 | 2965.6 | 1909.7 |
| 35° | 4043.4 | 4000.6 | 3978.5 | 3921.0 | 3904.3 | 3974.4 | 3908.5 | 3887.5 | 3728.5 | 3407.2 | 2136.8 |
| 37.5° | 4089.4 | 4103.1 | 4098.9 | 4026.7 | 4062.3 | 4251.7 | 4336.4 | 4282.0 | 4198.3 | 3872.9 | 2382.7 |
| 40° | 4130.3 | 4139.7 | 4118.8 | 4203.6 | 4305.1 | 4520.6 | 4827.3 | 4737.3 | 4705.8 | 4344.8 | 2724.9 |
| 42.5° | 4153.3 | 4146.0 | 4146.0 | 4292.5 | 4446.3 | 4879.6 | 5301.2 | 5241.6 | 5217.6 | 4847.1 | 3120.4 |
| 45° | 4053.9 | 3982.7 | 4059.2 | 4258.0 | 4567.7 | 5056.4 | 5680.0 | 5762.7 | 5728.2 | 5444.6 | 3583.0 |
| 47.5° | 3682.4 | 3726.4 | 3769.3 | 4035.0 | 4420.1 | 5002.0 | 5912.4 | 6193.9 | 6257.7 | 5946.9 | 3886.5 |
| 50° | 3120.4 | 3111.0 | 3200.0 | 3534.9 | 4002.7 | 4767.5 | 5867.4 | 6318.4 | 6434.6 | 6097.6 | 3950.3 |
| 52.5° | 2269.7 | 2338.8 | 2435.0 | 2767.8 | 3322.5 | 4160.7 | 5286.6 | 5997.2 | 6152.0 | 5912.4 | 3908.5 |
| 55° | 1321.6 | 1245.3 | 1461.9 | 1743.4 | 2266.6 | 3138.3 | 4469.3 | 5315.9 | 5602.7 | 5575.4 | 3697.0 |
| 57.5° | 529.5 | 512.8 | 587.0 | 791.1 | 1182.4 | 1945.3 | 3250.2 | 4367.8 | 4827.3 | 5106.6 | 3249.2 |
| 60° | 232.3 | 227.1 | 266.8 | 322.3 | 483.5 | 896.8 | 1777.9 | 2716.5 | 3195.8 | 3568.4 | 2236.2 |
| 62.5° | 167.4 | 165.3 | 185.2 | 205.1 | 255.3 | 390.3 | 747.1 | 1094.6 | 1364.5 | 1648.1 | 1001.5 |
| 65° | 135.0 | 140.2 | 153.8 | 164.3 | 188.4 | 216.6 | 263.7 | 304.5 | 373.6 | 387.2 | 220.8 |
| 67.5° | 109.8 | 114.0 | 126.7 | 138.1 | 142.3 | 117.2 | 121.4 | 106.7 | 106.7 | 95.2 | 76.4 |
| 70° | 80.6 | 81.7 | 96.3 | 109.8 | 87.9 | 47.1 | 82.7 | 82.7 | 74.3 | 71.1 | 64.8 |
| 72.5° | 59.6 | 60.7 | 72.2 | 68.0 | 34.6 | 29.3 | 60.7 | 66.9 | 60.7 | 57.5 | 52.3 |
| 75° | 44.0 | 45.0 | 37.7 | 15.7 | 14.6 | 18.8 | 35.6 | 46.0 | 44.0 | 42.9 | 39.8 |
| 77.5° | 8.4 | 6.3 | 5.2 | 7.3 | 10.4 | 15.7 | 23.0 | 28.3 | 29.3 | 31.4 | 29.3 |
| 80° | 1.0 | 1.0 | 3.1 | 6.3 | 11.5 | 16.7 | 24.1 | 27.2 | 28.3 | 29.3 | 27.2 |
| 82.5° | 0.0 | 1.0 | 3.1 | 6.3 | 11.5 | 15.7 | 20.9 | 24.1 | 26.2 | 27.2 | 26.2 |
| 85° | 0.0 | 1.0 | 2.1 | 5.2 | 9.4 | 11.5 | 10.4 | 7.3 | 6.3 | 7.3 | 5.2 |
| 87.5° | 0.0 | 0.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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° | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 | 659.3 |
| 2.5° | 667.7 | 663.5 | 648.8 | 633.1 | 619.5 | 625.8 | 619.5 | 614.3 | 616.4 | 614.3 | 612.2 |
| 5° | 704.3 | 685.4 | 654.0 | 640.4 | 628.9 | 627.9 | 624.7 | 623.7 | 624.7 | 624.7 | 615.3 |
| 7.5° | 738.8 | 708.5 | 675.0 | 660.3 | 646.7 | 647.7 | 640.4 | 640.4 | 639.4 | 634.1 | 632.0 |
| 10° | 791.1 | 750.3 | 707.4 | 681.2 | 664.5 | 661.4 | 654.0 | 646.7 | 646.7 | 646.7 | 636.2 |
| 12.5° | 848.7 | 797.4 | 738.8 | 708.5 | 688.5 | 672.9 | 661.4 | 659.3 | 647.7 | 645.6 | 640.4 |
| 15° | 898.9 | 834.0 | 759.7 | 717.9 | 692.7 | 671.8 | 654.0 | 642.5 | 637.3 | 634.1 | 630.0 |
| 17.5° | 948.1 | 865.4 | 771.2 | 717.9 | 690.6 | 666.6 | 647.7 | 637.3 | 624.7 | 626.8 | 618.5 |
| 20° | 1014.0 | 898.9 | 774.4 | 704.3 | 670.8 | 647.7 | 622.6 | 617.4 | 610.1 | 603.8 | 605.9 |
| 22.5° | 1077.8 | 923.0 | 765.0 | 687.5 | 639.4 | 612.2 | 599.6 | 593.3 | 590.2 | 585.0 | 577.6 |
| 25° | 1135.4 | 949.2 | 750.3 | 657.2 | 605.9 | 586.0 | 574.5 | 573.5 | 566.2 | 566.2 | 552.5 |
| 27.5° | 1194.0 | 958.6 | 725.2 | 621.6 | 576.6 | 565.1 | 559.9 | 557.8 | 554.6 | 547.3 | 537.9 |
| 30° | 1261.0 | 961.7 | 688.5 | 585.0 | 550.4 | 537.9 | 545.2 | 550.4 | 536.8 | 523.2 | 527.4 |
| 32.5° | 1316.4 | 954.4 | 644.6 | 550.4 | 531.6 | 525.3 | 539.9 | 545.2 | 529.5 | 514.9 | 507.5 |
| 35° | 1383.4 | 936.5 | 601.7 | 523.2 | 512.8 | 525.3 | 537.9 | 537.9 | 506.5 | 488.7 | 484.5 |
| 37.5° | 1484.9 | 916.7 | 562.0 | 500.2 | 492.9 | 519.1 | 535.8 | 524.3 | 475.1 | 453.1 | 447.9 |
| 40° | 1593.7 | 904.2 | 523.2 | 477.2 | 482.4 | 508.6 | 518.0 | 482.4 | 432.2 | 418.6 | 414.4 |
| 42.5° | 1751.7 | 879.0 | 488.7 | 457.3 | 473.0 | 493.9 | 493.9 | 430.1 | 411.2 | 403.9 | 402.8 |
| 45° | 1948.4 | 861.2 | 458.3 | 440.5 | 459.4 | 464.7 | 447.9 | 402.8 | 389.3 | 387.2 | 388.2 |
| 47.5° | 2044.7 | 826.7 | 427.0 | 420.7 | 434.3 | 435.3 | 391.4 | 380.9 | 369.4 | 366.3 | 364.2 |
| 50° | 2030.1 | 765.0 | 386.1 | 394.5 | 413.4 | 402.8 | 356.8 | 358.9 | 348.4 | 347.4 | 342.2 |
| 52.5° | 1927.6 | 667.7 | 345.3 | 365.2 | 386.1 | 355.8 | 328.6 | 326.5 | 326.5 | 312.9 | 307.6 |
| 55° | 1708.8 | 537.9 | 296.1 | 321.3 | 346.4 | 299.3 | 292.0 | 289.9 | 284.6 | 272.1 | 269.0 |
| 57.5° | 1353.1 | 394.5 | 222.9 | 250.1 | 294.0 | 254.3 | 253.2 | 243.8 | 230.2 | 220.8 | 220.8 |
| 60° | 804.8 | 227.1 | 140.2 | 152.8 | 194.6 | 206.1 | 229.2 | 225.0 | 201.9 | 187.3 | 183.1 |
| 62.5° | 367.3 | 117.2 | 89.0 | 91.1 | 104.6 | 134.0 | 180.0 | 208.2 | 175.8 | 150.7 | 148.6 |
| 65° | 123.5 | 86.9 | 73.3 | 70.1 | 72.2 | 80.6 | 107.8 | 147.5 | 140.2 | 116.1 | 111.9 |
| 67.5° | 75.4 | 77.5 | 69.0 | 63.8 | 63.8 | 62.8 | 61.7 | 66.9 | 82.7 | 80.6 | 81.7 |
| 70° | 64.8 | 71.1 | 63.8 | 57.5 | 55.4 | 52.3 | 44.0 | 36.6 | 31.4 | 36.6 | 38.7 |
| 72.5° | 52.3 | 56.5 | 54.4 | 49.2 | 44.0 | 39.8 | 31.4 | 24.1 | 17.8 | 15.7 | 15.7 |
| 75° | 38.7 | 41.9 | 44.0 | 37.7 | 33.5 | 28.3 | 23.0 | 15.7 | 9.4 | 6.3 | 6.3 |
| 77.5° | 28.3 | 31.4 | 32.5 | 29.3 | 25.1 | 19.8 | 14.6 | 10.4 | 5.2 | 2.1 | 2.1 |
| 80° | 24.1 | 28.3 | 31.4 | 29.3 | 26.2 | 18.8 | 13.6 | 7.3 | 4.2 | 1.0 | 1.0 |
| 82.5° | 23.0 | 28.3 | 31.4 | 28.3 | 25.1 | 17.8 | 13.6 | 8.4 | 3.1 | 1.0 | 1.0 |
| 85° | 5.2 | 7.3 | 9.4 | 11.5 | 13.6 | 13.6 | 10.4 | 6.3 | 3.1 | 1.0 | 1.0 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 0.0 |
| 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)