

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: P191829

Luminaire Tested: **GAN-AF-01-LED-U-SL2-7050-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL2-7050-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3401 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
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: 28.75 FT

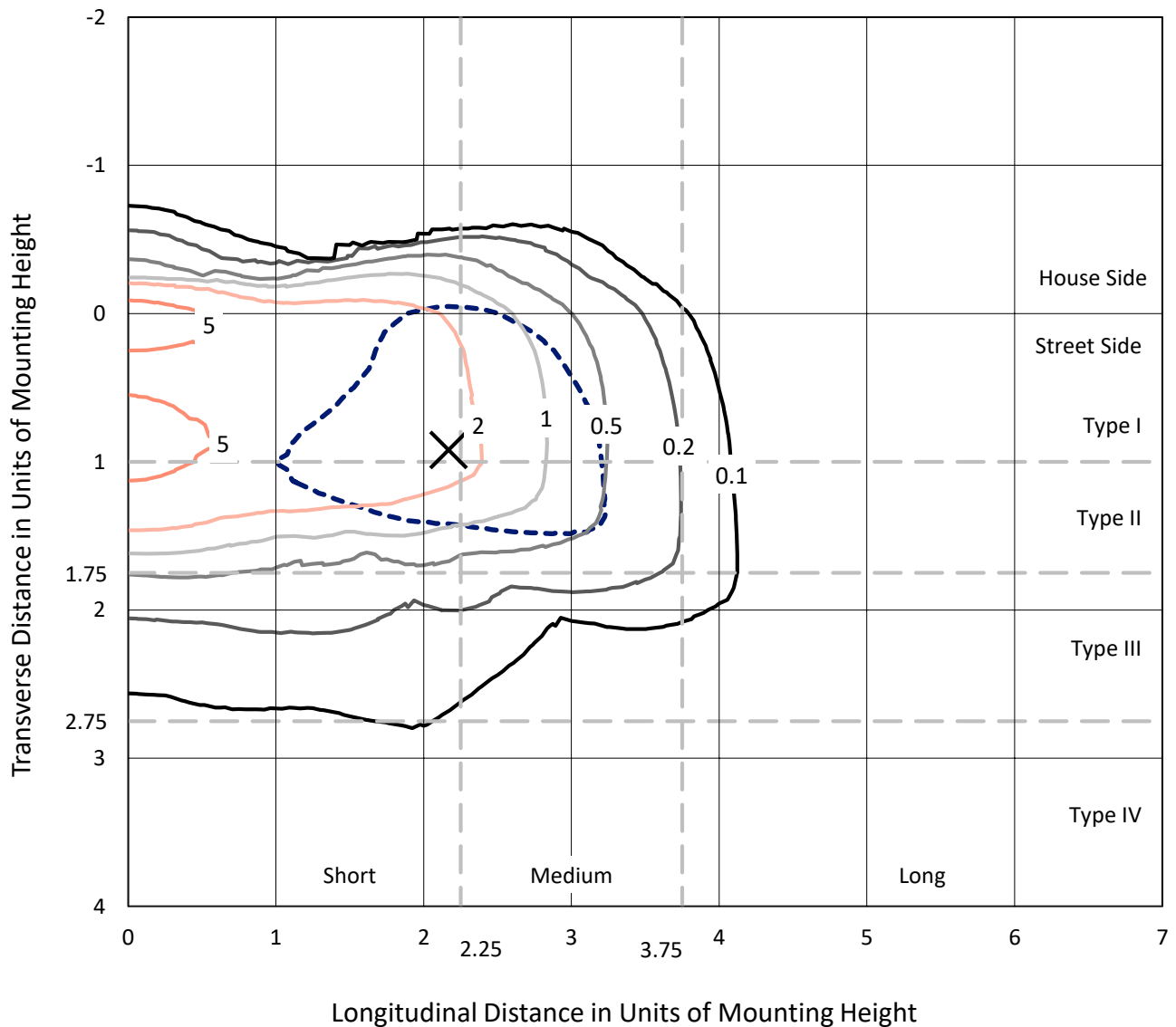


REPORT NUMBER: P191829

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

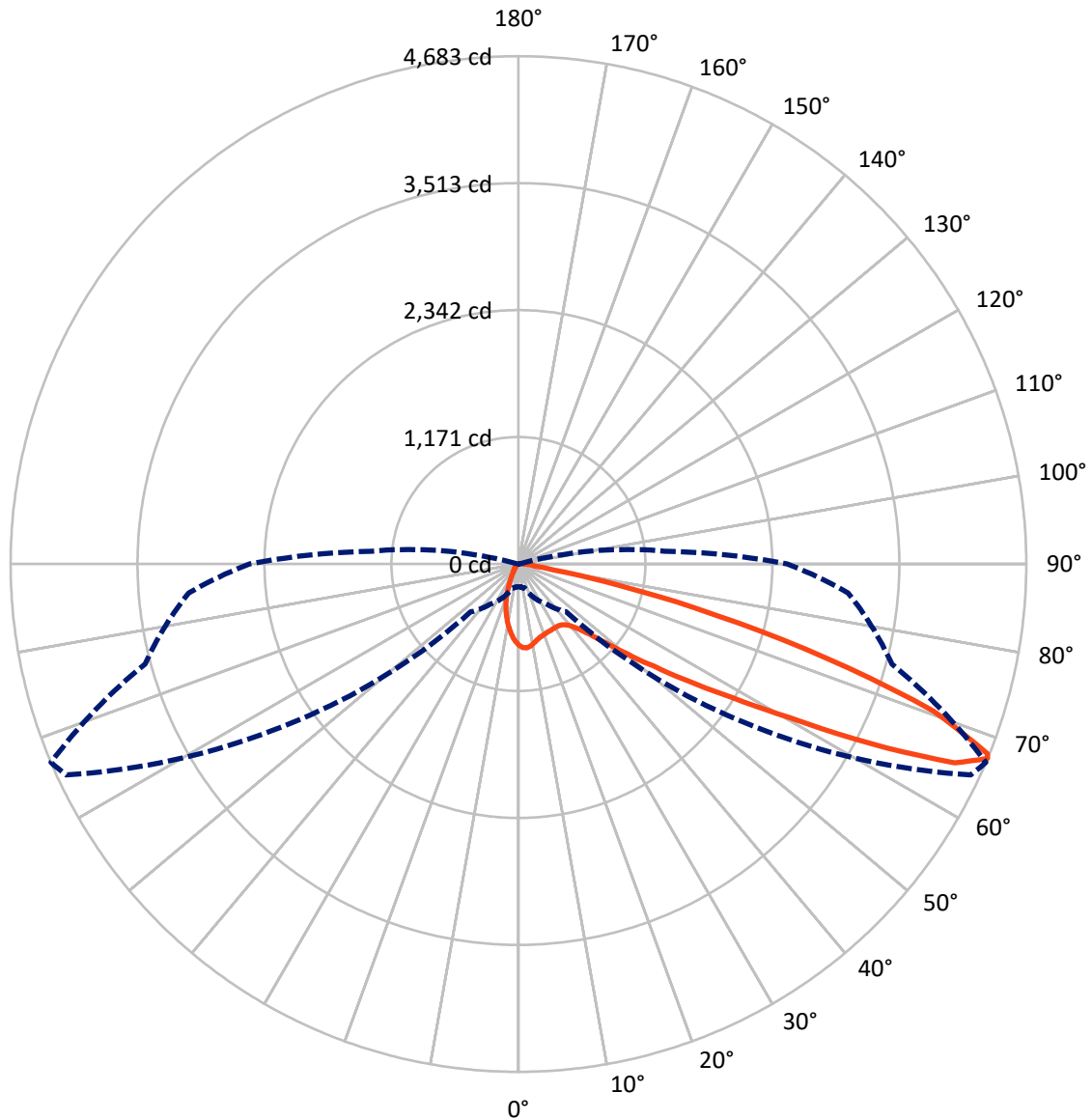


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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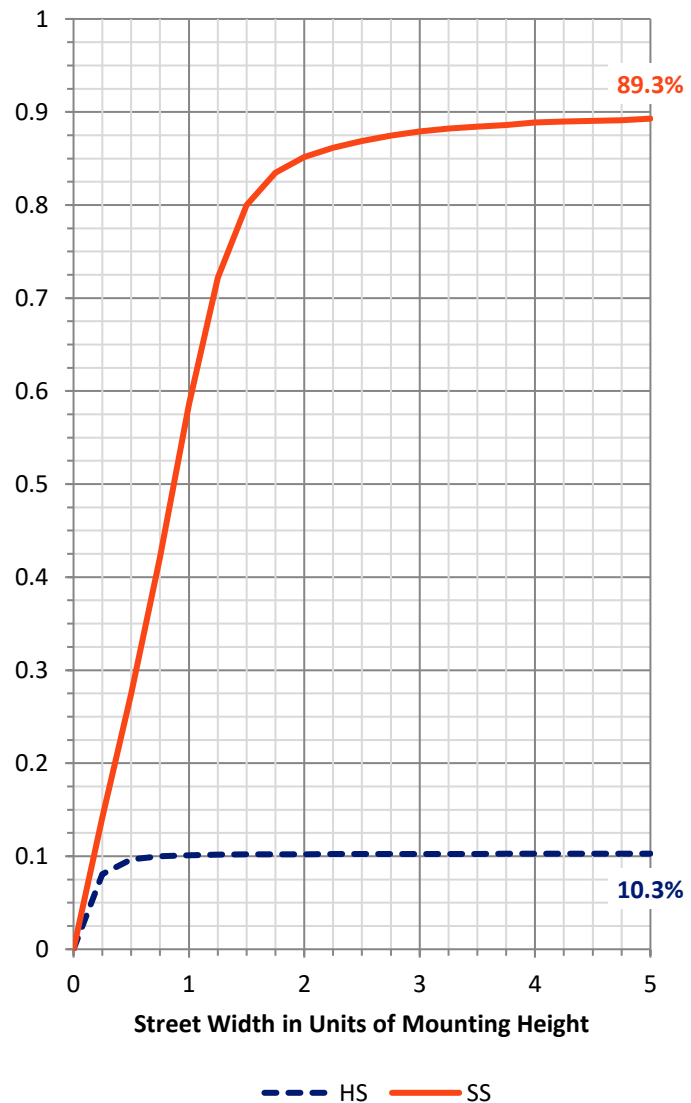
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 353.1 | 0.0 | 353.1 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 3047.9 | 0.0 | 3047.9 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 3401.0 | 0.0 | 3401.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.0 | 1.8 |
| 10°-20° | 129.9 | 3.8 |
| 20°-30° | 188.9 | 5.6 |
| 30°-40° | 294.6 | 8.7 |
| 40°-50° | 521.9 | 15.3 |
| 50°-60° | 825.9 | 24.3 |
| 60°-70° | 945.9 | 27.8 |
| 70°-80° | 392.4 | 11.5 |
| 80°-90° | 40.5 | 1.2 |
| 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° | 3401.0 | 100.0 |
| 0°-180° | 3401.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191829

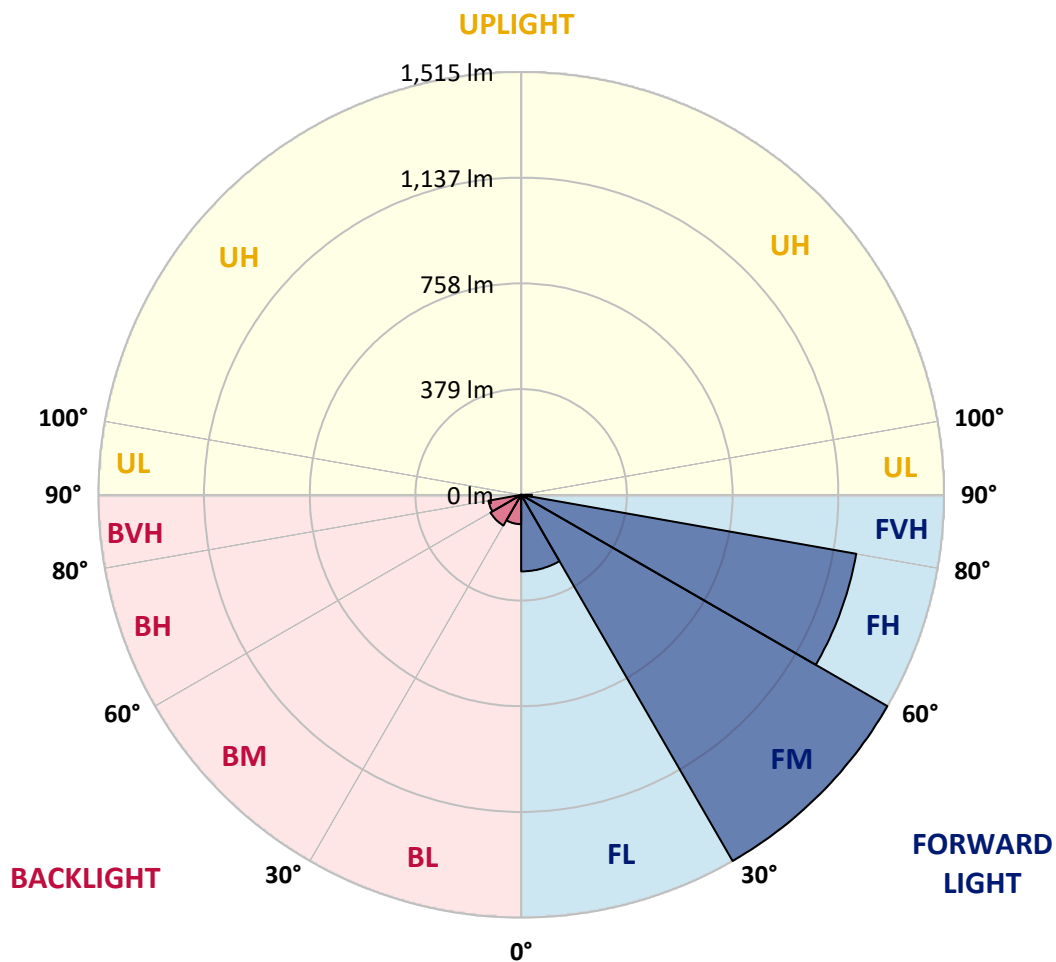
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 274.4 | 8.1 | | | |
| FM (30°-60°) | 1515.5 | 44.6 | | | |
| FH (60°-80°) | 1219.3 | 35.9 | | | G1/1800 |
| FVH (80°-90°) | 38.7 | 1.1 | | | G1/100 |
| BL (0°-30°) | 105.4 | 3.1 | B0/110 | | |
| BM (30°-60°) | 126.9 | 3.7 | B0/220 | | |
| BH (60°-80°) | 119.0 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 |
| 2.5° | 775.4 | 777.0 | 776.8 | 778.0 | 780.8 | 781.0 | 778.2 | 772.9 | 771.7 | 764.7 | 752.6 |
| 5° | 715.1 | 719.7 | 722.5 | 733.8 | 746.5 | 761.8 | 773.3 | 777.4 | 776.8 | 771.9 | 753.6 |
| 7.5° | 646.3 | 650.9 | 654.0 | 667.3 | 684.2 | 710.4 | 740.3 | 764.9 | 767.1 | 772.5 | 752.8 |
| 10° | 600.5 | 601.3 | 605.6 | 618.3 | 636.0 | 662.8 | 698.5 | 741.5 | 748.1 | 767.7 | 750.8 |
| 12.5° | 562.8 | 563.4 | 569.1 | 582.8 | 601.7 | 628.6 | 666.1 | 715.9 | 726.0 | 761.8 | 750.4 |
| 15° | 536.0 | 538.2 | 543.3 | 557.6 | 577.7 | 604.4 | 642.9 | 697.1 | 709.2 | 759.6 | 754.0 |
| 17.5° | 527.1 | 529.5 | 531.0 | 541.4 | 559.6 | 585.8 | 625.3 | 684.8 | 698.5 | 760.8 | 761.0 |
| 20° | 536.4 | 538.2 | 534.6 | 537.2 | 548.5 | 571.9 | 610.4 | 674.3 | 690.5 | 762.1 | 769.9 |
| 22.5° | 571.1 | 571.9 | 562.2 | 550.9 | 548.9 | 561.8 | 598.7 | 665.9 | 683.4 | 765.9 | 780.4 |
| 25° | 630.6 | 629.2 | 613.4 | 589.0 | 566.0 | 560.0 | 591.7 | 660.8 | 679.8 | 769.9 | 791.3 |
| 27.5° | 702.4 | 704.4 | 682.6 | 647.1 | 603.3 | 571.9 | 590.8 | 658.6 | 678.2 | 772.7 | 800.8 |
| 30° | 789.7 | 792.5 | 767.5 | 722.9 | 660.0 | 601.3 | 599.9 | 658.2 | 677.2 | 770.9 | 801.6 |
| 32.5° | 878.8 | 882.2 | 862.5 | 816.5 | 735.8 | 650.5 | 620.5 | 662.6 | 679.2 | 764.7 | 797.1 |
| 35° | 972.0 | 976.8 | 963.7 | 924.2 | 838.5 | 721.5 | 656.8 | 675.9 | 688.6 | 764.1 | 792.5 |
| 37.5° | 1100.8 | 1105.1 | 1080.5 | 1038.7 | 962.9 | 816.7 | 715.1 | 700.8 | 710.6 | 773.7 | 793.7 |
| 40° | 1293.0 | 1292.4 | 1228.9 | 1164.8 | 1099.6 | 937.7 | 797.1 | 746.1 | 751.0 | 802.4 | 808.4 |
| 42.5° | 1502.5 | 1501.5 | 1407.7 | 1310.2 | 1251.3 | 1086.7 | 904.8 | 824.2 | 820.9 | 855.4 | 846.5 |
| 45° | 1663.9 | 1663.7 | 1587.2 | 1477.5 | 1434.0 | 1257.7 | 1044.0 | 932.9 | 927.8 | 941.5 | 916.7 |
| 47.5° | 1732.8 | 1734.0 | 1695.5 | 1618.3 | 1636.6 | 1489.0 | 1219.6 | 1090.5 | 1082.7 | 1077.2 | 1039.5 |
| 50° | 1679.2 | 1681.6 | 1684.8 | 1669.7 | 1785.2 | 1799.8 | 1455.1 | 1312.4 | 1308.7 | 1283.9 | 1224.9 |
| 52.5° | 1504.3 | 1516.4 | 1553.7 | 1601.5 | 1836.7 | 2098.2 | 1824.2 | 1588.2 | 1567.9 | 1541.6 | 1476.7 |
| 55° | 1209.5 | 1222.8 | 1293.6 | 1409.6 | 1760.0 | 2294.2 | 2341.6 | 1943.7 | 1909.9 | 1831.2 | 1737.5 |
| 57.5° | 800.4 | 821.1 | 923.8 | 1071.4 | 1537.0 | 2325.7 | 2857.8 | 2437.0 | 2319.6 | 2103.9 | 1998.4 |
| 60° | 441.0 | 460.8 | 572.3 | 706.0 | 1110.1 | 2169.8 | 3204.9 | 3079.3 | 2871.8 | 2408.8 | 2315.2 |
| 62.5° | 271.6 | 282.3 | 364.6 | 489.0 | 665.7 | 1712.5 | 3276.7 | 3886.5 | 3646.3 | 2801.4 | 2697.9 |
| 65° | 216.2 | 220.8 | 261.1 | 399.7 | 477.3 | 1018.6 | 3044.8 | 4501.9 | 4421.7 | 3276.7 | 3040.5 |
| 67° | 209.9 | 211.7 | 230.7 | 343.2 | 449.9 | 624.5 | 2550.9 | 4602.0 | 4683.4 | 3564.4 | 3051.2 |
| 67.5° | 211.3 | 213.3 | 231.3 | 327.5 | 449.1 | 573.9 | 2380.7 | 4562.6 | 4665.3 | 3587.2 | 3003.8 |
| 70° | 203.7 | 209.9 | 264.8 | 327.3 | 427.1 | 476.9 | 1425.7 | 3953.2 | 4060.1 | 3333.1 | 2548.7 |
| 72.5° | 72.2 | 72.6 | 114.5 | 264.8 | 464.4 | 482.0 | 715.9 | 2898.0 | 2977.2 | 2549.7 | 1837.5 |
| 75° | 42.8 | 36.5 | 38.1 | 75.4 | 443.8 | 468.2 | 413.0 | 1851.8 | 1881.4 | 1461.0 | 930.6 |
| 77.5° | 29.6 | 25.8 | 26.6 | 33.3 | 169.0 | 461.6 | 328.1 | 965.7 | 934.1 | 512.4 | 198.2 |
| 80° | 16.9 | 14.9 | 15.9 | 29.2 | 61.5 | 430.7 | 309.5 | 391.6 | 333.9 | 86.9 | 54.8 |
| 82.5° | 8.9 | 7.5 | 9.1 | 24.0 | 42.8 | 268.4 | 310.1 | 189.2 | 150.0 | 29.4 | 37.3 |
| 85° | 3.2 | 2.6 | 4.4 | 16.5 | 28.6 | 82.3 | 287.4 | 159.1 | 125.0 | 14.3 | 28.4 |
| 87.5° | 0.6 | 0.6 | 1.8 | 6.7 | 11.5 | 25.2 | 170.0 | 94.4 | 63.3 | 8.5 | 19.4 |
| 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° | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 |
| 2.5° | 747.7 | 739.1 | 727.6 | 713.5 | 696.9 | 682.2 | 671.3 | 660.0 | 657.6 | 653.6 | 653.0 |
| 5° | 742.7 | 728.0 | 699.5 | 666.7 | 631.8 | 600.3 | 574.7 | 551.9 | 541.8 | 533.0 | 532.0 |
| 7.5° | 735.4 | 713.3 | 664.7 | 612.0 | 557.4 | 507.8 | 465.8 | 436.0 | 408.6 | 395.6 | 393.6 |
| 10° | 726.8 | 695.3 | 625.7 | 552.5 | 477.1 | 407.1 | 344.6 | 292.2 | 260.5 | 241.6 | 239.2 |
| 12.5° | 718.9 | 677.6 | 585.8 | 490.8 | 390.6 | 297.0 | 216.6 | 166.6 | 133.3 | 119.8 | 118.2 |
| 15° | 715.1 | 663.4 | 548.5 | 427.7 | 300.1 | 189.0 | 118.4 | 91.6 | 80.7 | 77.6 | 77.4 |
| 17.5° | 714.7 | 651.3 | 512.0 | 362.4 | 210.3 | 109.9 | 77.2 | 70.4 | 68.2 | 67.4 | 67.4 |
| 20° | 714.5 | 639.8 | 475.5 | 294.8 | 133.5 | 73.2 | 64.3 | 62.7 | 61.1 | 60.1 | 60.1 |
| 22.5° | 716.7 | 629.4 | 437.4 | 225.7 | 84.1 | 59.3 | 56.5 | 54.9 | 53.0 | 51.6 | 51.4 |
| 25° | 718.9 | 621.5 | 398.5 | 160.7 | 60.9 | 51.6 | 48.8 | 46.6 | 43.8 | 42.1 | 41.9 |
| 27.5° | 719.3 | 611.6 | 356.9 | 107.5 | 51.0 | 45.0 | 41.5 | 38.1 | 34.9 | 33.1 | 32.9 |
| 30° | 713.3 | 594.9 | 310.7 | 72.6 | 45.0 | 39.1 | 34.3 | 30.7 | 27.8 | 26.4 | 26.4 |
| 32.5° | 701.6 | 574.3 | 259.9 | 54.8 | 40.1 | 33.5 | 28.4 | 25.0 | 23.0 | 22.4 | 22.2 |
| 35° | 691.1 | 552.1 | 207.7 | 46.4 | 35.9 | 28.4 | 23.2 | 21.0 | 19.8 | 19.6 | 19.4 |
| 37.5° | 685.0 | 534.2 | 158.7 | 42.1 | 31.9 | 23.8 | 19.6 | 18.1 | 17.5 | 17.1 | 17.3 |
| 40° | 689.7 | 519.3 | 117.2 | 38.5 | 28.0 | 19.8 | 16.7 | 15.9 | 15.3 | 15.1 | 15.1 |
| 42.5° | 710.6 | 516.8 | 87.1 | 35.3 | 24.2 | 16.5 | 14.5 | 13.9 | 13.5 | 13.3 | 13.5 |
| 45° | 765.3 | 532.6 | 67.6 | 32.3 | 20.4 | 13.9 | 12.3 | 12.1 | 11.9 | 11.9 | 11.9 |
| 47.5° | 847.6 | 565.4 | 56.3 | 29.0 | 17.1 | 11.9 | 10.7 | 10.5 | 10.3 | 10.5 | 10.5 |
| 50° | 987.1 | 625.3 | 50.4 | 25.6 | 14.1 | 10.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.3 |
| 52.5° | 1199.2 | 743.1 | 46.4 | 22.2 | 11.5 | 8.5 | 7.7 | 7.7 | 7.9 | 7.9 | 8.1 |
| 55° | 1435.4 | 899.4 | 42.8 | 18.8 | 9.7 | 7.1 | 6.3 | 6.5 | 6.7 | 6.9 | 6.9 |
| 57.5° | 1691.7 | 1072.6 | 39.9 | 15.5 | 8.3 | 5.8 | 5.4 | 5.6 | 5.8 | 6.1 | 6.1 |
| 60° | 2001.0 | 1260.1 | 35.5 | 12.1 | 6.9 | 4.6 | 4.2 | 4.6 | 5.2 | 5.6 | 5.8 |
| 62.5° | 2340.6 | 1441.4 | 30.0 | 9.5 | 5.8 | 3.6 | 3.4 | 4.2 | 5.0 | 5.4 | 5.6 |
| 65° | 2572.7 | 1498.3 | 23.0 | 7.7 | 4.4 | 2.6 | 2.8 | 3.8 | 4.8 | 5.4 | 5.4 |
| 67° | 2478.7 | 1358.5 | 18.8 | 6.5 | 3.6 | 2.0 | 2.6 | 3.8 | 4.8 | 5.2 | 5.4 |
| 67.5° | 2413.4 | 1303.7 | 18.1 | 6.3 | 3.4 | 2.0 | 2.6 | 3.8 | 4.8 | 5.4 | 5.4 |
| 70° | 1963.7 | 979.4 | 15.1 | 4.8 | 2.8 | 1.8 | 2.2 | 3.6 | 4.6 | 5.2 | 5.2 |
| 72.5° | 1364.4 | 603.8 | 13.5 | 3.4 | 2.4 | 1.6 | 2.0 | 3.4 | 4.4 | 5.0 | 5.2 |
| 75° | 648.7 | 218.6 | 11.5 | 2.6 | 2.2 | 1.4 | 1.8 | 3.4 | 4.4 | 5.0 | 5.0 |
| 77.5° | 132.3 | 50.8 | 9.3 | 2.2 | 1.8 | 1.4 | 1.6 | 3.2 | 4.2 | 4.8 | 4.8 |
| 80° | 43.4 | 19.6 | 6.9 | 2.0 | 1.8 | 1.4 | 1.6 | 3.0 | 4.2 | 4.6 | 4.8 |
| 82.5° | 31.3 | 9.9 | 4.6 | 2.0 | 1.8 | 1.4 | 1.4 | 3.0 | 4.0 | 4.6 | 4.6 |
| 85° | 24.0 | 6.9 | 3.0 | 2.0 | 1.8 | 1.4 | 1.4 | 2.8 | 3.8 | 4.4 | 4.4 |
| 87.5° | 15.9 | 2.8 | 2.4 | 2.0 | 1.8 | 1.4 | 1.4 | 2.8 | 3.6 | 4.2 | 4.4 |
| 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)