

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: P268207

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 67
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

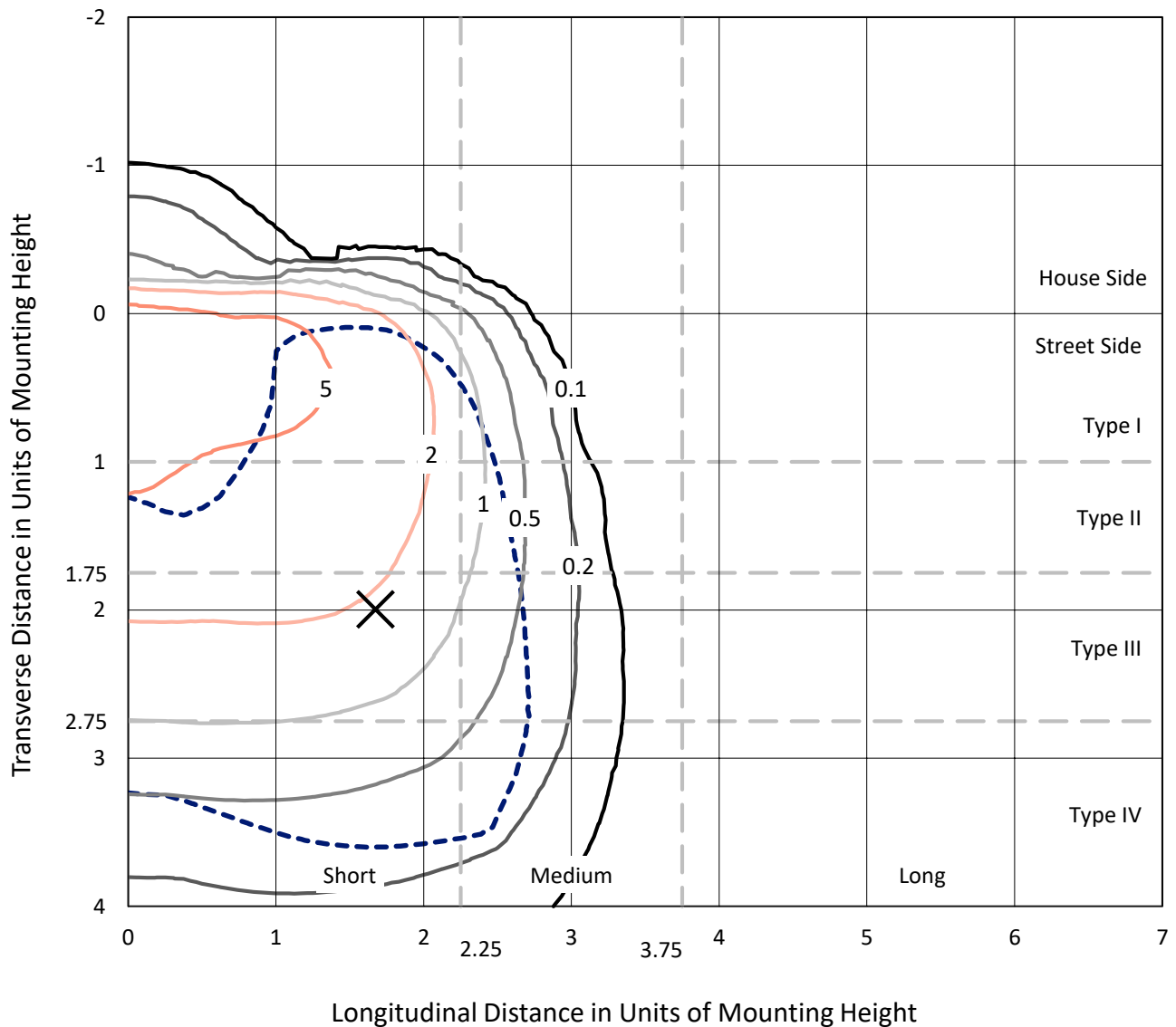


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

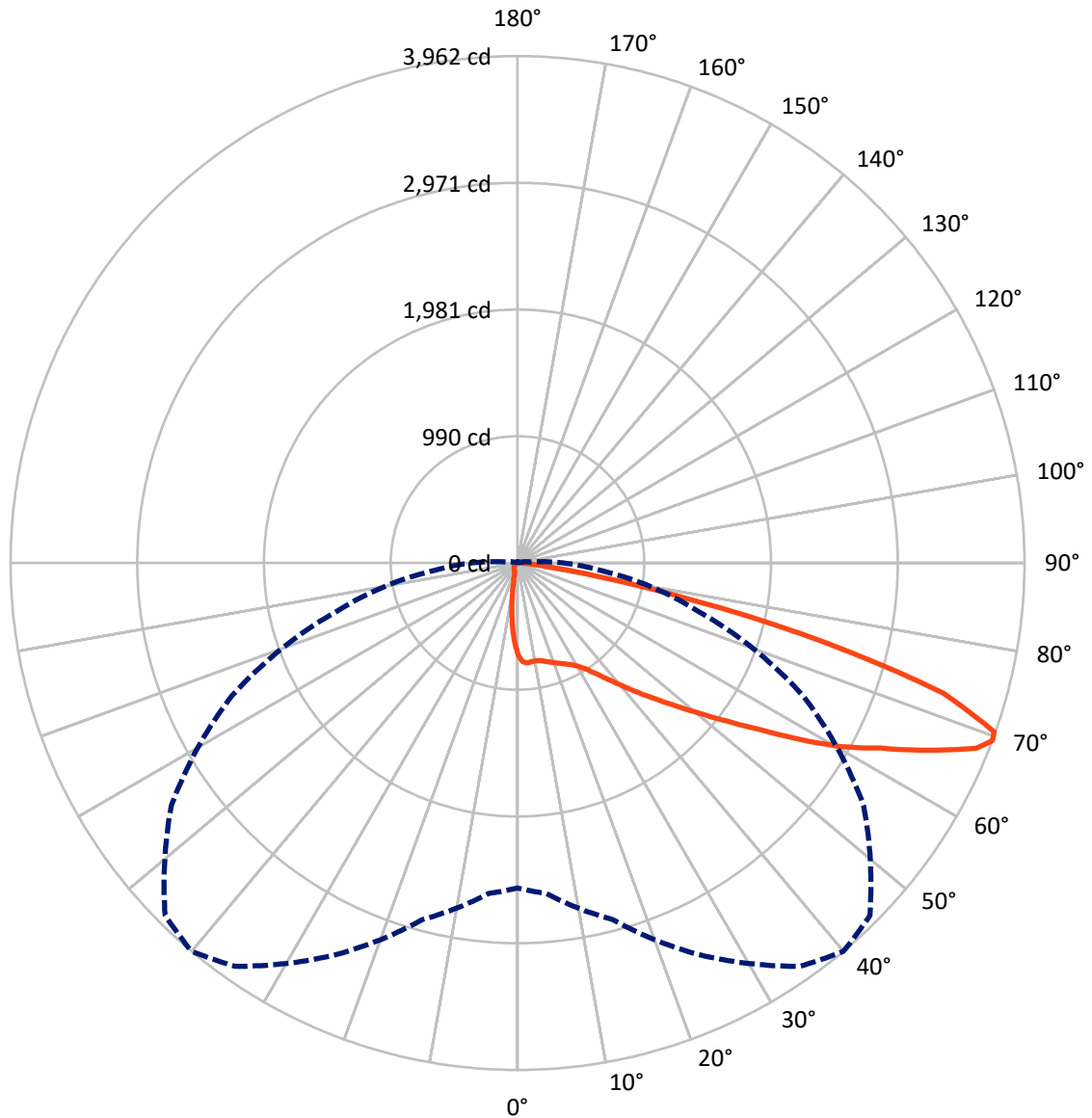


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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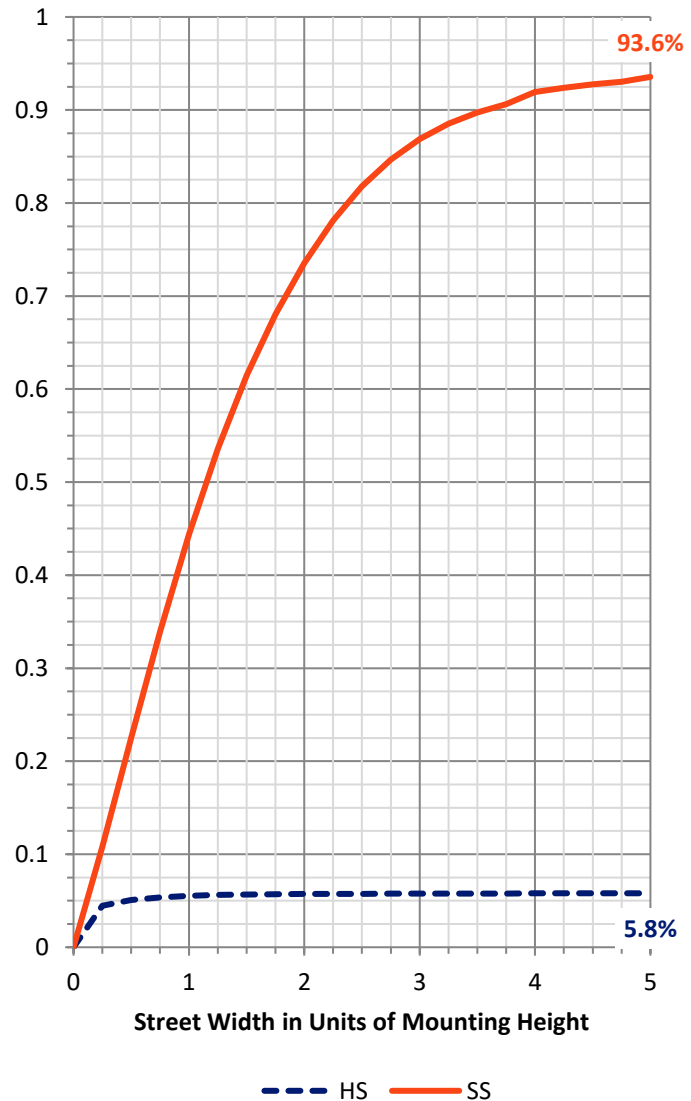
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 282.1 | 0.0 | 282.1 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 4539.0 | 0.0 | 4539.0 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 4821.0 | 0.0 | 4821.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.4 | 1.2 |
| 10°-20° | 143.6 | 3.0 |
| 20°-30° | 241.9 | 5.0 |
| 30°-40° | 396.0 | 8.2 |
| 40°-50° | 685.7 | 14.2 |
| 50°-60° | 1080.0 | 22.4 |
| 60°-70° | 1410.4 | 29.3 |
| 70°-80° | 726.4 | 15.1 |
| 80°-90° | 78.6 | 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° | 4821.0 | 100.0 |
| 0°-180° | 4821.0 | 100.0 |



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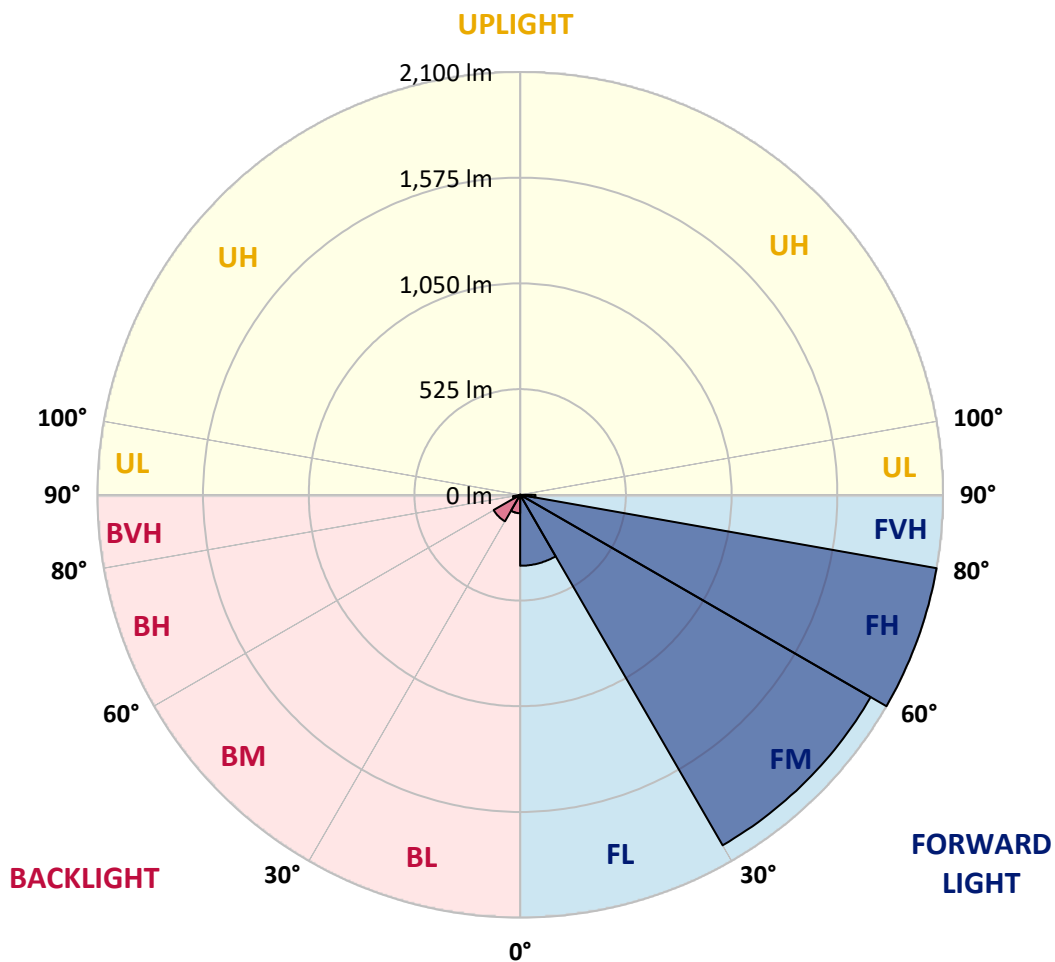
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 352.6 | 7.3 | | | |
| FM | (30°-60°) | 2010.1 | 41.7 | | | |
| FH | (60°-80°) | 2100.2 | 43.6 | | | G2/5000 |
| FVH | (80°-90°) | 76.1 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 91.4 | 1.9 | B0/110 | | |
| BM | (30°-60°) | 151.6 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 36.6 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.5 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 |
| 2.5° | 790.9 | 786.6 | 784.0 | 780.5 | 776.2 | 772.5 | 771.0 | 760.4 | 750.4 | 736.6 | 720.9 |
| 5° | 805.5 | 804.2 | 799.5 | 794.9 | 789.7 | 784.0 | 780.8 | 768.2 | 753.9 | 733.7 | 706.2 |
| 7.5° | 806.9 | 805.2 | 799.5 | 793.2 | 785.9 | 779.1 | 773.7 | 761.0 | 747.7 | 727.4 | 693.9 |
| 10° | 804.6 | 802.6 | 798.4 | 791.4 | 782.6 | 776.0 | 770.4 | 758.4 | 747.3 | 728.9 | 691.5 |
| 12.5° | 802.0 | 800.1 | 798.1 | 794.6 | 786.8 | 782.2 | 777.8 | 766.3 | 756.2 | 740.7 | 699.9 |
| 15° | 804.6 | 803.5 | 805.8 | 804.3 | 800.1 | 796.1 | 791.4 | 781.2 | 772.0 | 759.0 | 715.1 |
| 17.5° | 815.5 | 815.5 | 822.8 | 823.6 | 819.6 | 813.9 | 807.2 | 796.8 | 789.2 | 778.2 | 733.1 |
| 20° | 841.2 | 840.3 | 849.3 | 851.1 | 841.4 | 832.5 | 822.8 | 810.1 | 804.2 | 797.2 | 751.1 |
| 22.5° | 885.0 | 881.0 | 886.4 | 884.7 | 865.4 | 851.8 | 839.6 | 824.1 | 821.1 | 817.8 | 770.7 |
| 25° | 942.1 | 939.8 | 943.6 | 926.6 | 892.7 | 874.1 | 859.8 | 842.3 | 842.3 | 845.5 | 793.2 |
| 27.5° | 1025.1 | 1016.4 | 1003.9 | 973.9 | 923.2 | 899.4 | 883.8 | 865.2 | 870.1 | 881.9 | 822.8 |
| 30° | 1109.9 | 1100.6 | 1071.6 | 1025.7 | 960.2 | 935.2 | 917.2 | 897.6 | 909.2 | 930.6 | 862.4 |
| 32.5° | 1193.8 | 1183.2 | 1142.1 | 1084.2 | 1013.3 | 988.3 | 970.8 | 949.2 | 968.6 | 1004.7 | 920.4 |
| 35° | 1275.1 | 1265.5 | 1218.2 | 1149.9 | 1083.8 | 1063.2 | 1047.2 | 1028.5 | 1053.2 | 1103.7 | 1002.1 |
| 37.5° | 1366.2 | 1355.9 | 1298.2 | 1224.2 | 1169.7 | 1154.7 | 1143.1 | 1124.4 | 1167.3 | 1241.4 | 1116.1 |
| 40° | 1478.5 | 1461.0 | 1383.2 | 1309.4 | 1268.9 | 1261.8 | 1253.8 | 1251.2 | 1318.1 | 1420.5 | 1267.8 |
| 42.5° | 1607.0 | 1578.3 | 1472.1 | 1399.3 | 1378.0 | 1383.2 | 1381.1 | 1392.6 | 1506.5 | 1643.2 | 1452.6 |
| 45° | 1735.5 | 1698.5 | 1571.1 | 1495.0 | 1498.0 | 1516.1 | 1527.3 | 1573.1 | 1742.7 | 1898.6 | 1651.5 |
| 47.5° | 1844.6 | 1808.2 | 1666.1 | 1598.8 | 1633.1 | 1668.7 | 1699.1 | 1786.1 | 1985.6 | 2150.0 | 1806.2 |
| 50° | 1938.0 | 1903.5 | 1766.8 | 1712.6 | 1790.1 | 1847.5 | 1896.9 | 2025.7 | 2246.8 | 2341.3 | 1914.6 |
| 52.5° | 2014.2 | 1991.3 | 1871.3 | 1843.2 | 1969.4 | 2053.5 | 2125.8 | 2280.3 | 2478.0 | 2496.8 | 1999.0 |
| 55° | 2088.6 | 2072.2 | 1983.5 | 1998.4 | 2180.0 | 2294.6 | 2386.2 | 2550.3 | 2677.0 | 2626.6 | 2079.9 |
| 57.5° | 2174.1 | 2159.2 | 2111.5 | 2195.3 | 2457.0 | 2601.0 | 2700.9 | 2789.5 | 2852.5 | 2759.2 | 2156.3 |
| 60° | 2261.4 | 2252.7 | 2253.8 | 2413.9 | 2775.0 | 2913.4 | 2968.4 | 2991.4 | 3024.7 | 2884.0 | 2160.6 |
| 62.5° | 2344.5 | 2360.8 | 2416.5 | 2657.4 | 3079.4 | 3185.6 | 3213.4 | 3236.1 | 3197.1 | 2903.9 | 1996.2 |
| 65° | 2485.4 | 2512.1 | 2645.0 | 2983.0 | 3414.4 | 3528.0 | 3556.7 | 3478.9 | 3224.3 | 2647.8 | 1623.6 |
| 67.5° | 2554.3 | 2603.1 | 2840.1 | 3286.5 | 3739.1 | 3865.4 | 3854.8 | 3494.6 | 2893.5 | 2019.1 | 1041.9 |
| 69° | 2540.0 | 2591.9 | 2885.1 | 3379.7 | 3847.1 | 3961.5 | 3894.2 | 3301.6 | 2465.0 | 1462.7 | 639.7 |
| 70° | 2483.2 | 2535.6 | 2861.9 | 3376.2 | 3860.8 | 3951.6 | 3821.3 | 3063.1 | 2084.2 | 1069.5 | 400.0 |
| 72.5° | 2073.6 | 2118.9 | 2540.8 | 3051.6 | 3556.7 | 3482.9 | 3196.8 | 2122.2 | 1015.5 | 291.3 | 90.1 |
| 75° | 1276.4 | 1301.6 | 1823.1 | 2298.9 | 2686.3 | 2496.8 | 2129.9 | 1055.8 | 302.8 | 82.4 | 49.9 |
| 77.5° | 674.4 | 685.9 | 998.0 | 1355.1 | 1702.8 | 1409.0 | 1091.6 | 411.9 | 139.4 | 51.7 | 36.1 |
| 80° | 398.6 | 407.2 | 537.5 | 619.7 | 736.9 | 615.6 | 436.4 | 252.9 | 99.8 | 32.3 | 32.1 |
| 82.5° | 228.1 | 233.6 | 389.8 | 344.4 | 290.4 | 247.9 | 217.2 | 239.6 | 59.9 | 21.7 | 33.2 |
| 85° | 83.8 | 84.9 | 219.2 | 261.9 | 172.7 | 102.8 | 107.8 | 198.5 | 16.1 | 13.7 | 26.1 |
| 87.5° | 39.0 | 38.2 | 112.7 | 160.3 | 101.0 | 65.1 | 84.1 | 43.6 | 6.3 | 9.0 | 7.1 |
| 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° | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 | 720.4 |
| 2.5° | 711.6 | 701.0 | 681.9 | 662.1 | 642.0 | 626.5 | 611.2 | 599.2 | 595.1 | 587.8 | 588.3 |
| 5° | 689.9 | 670.3 | 630.3 | 589.5 | 547.0 | 511.9 | 478.9 | 452.2 | 439.4 | 426.2 | 426.2 |
| 7.5° | 670.9 | 642.5 | 579.6 | 513.4 | 444.8 | 387.1 | 335.2 | 296.1 | 274.6 | 257.5 | 257.2 |
| 10° | 663.8 | 625.3 | 537.5 | 442.5 | 346.9 | 268.4 | 206.6 | 167.1 | 146.7 | 133.5 | 132.9 |
| 12.5° | 666.9 | 619.3 | 505.0 | 377.1 | 257.2 | 172.5 | 119.7 | 94.1 | 85.5 | 81.4 | 81.4 |
| 15° | 676.2 | 617.6 | 472.7 | 313.1 | 181.6 | 107.8 | 79.5 | 72.7 | 72.0 | 72.0 | 72.0 |
| 17.5° | 687.4 | 618.2 | 439.4 | 250.7 | 123.6 | 77.3 | 68.6 | 67.7 | 68.4 | 68.4 | 68.4 |
| 20° | 698.7 | 618.5 | 403.5 | 193.1 | 87.2 | 67.2 | 64.6 | 64.3 | 64.9 | 64.9 | 65.1 |
| 22.5° | 712.9 | 619.8 | 367.5 | 144.4 | 72.0 | 63.4 | 61.4 | 61.4 | 61.8 | 61.8 | 61.4 |
| 25° | 728.9 | 622.7 | 330.2 | 107.1 | 65.8 | 60.8 | 59.1 | 58.7 | 59.1 | 58.7 | 58.5 |
| 27.5° | 748.9 | 626.7 | 288.6 | 83.8 | 62.8 | 58.3 | 56.9 | 56.9 | 56.6 | 56.2 | 56.0 |
| 30° | 774.2 | 631.2 | 242.0 | 71.1 | 59.9 | 56.0 | 54.5 | 54.3 | 54.0 | 53.4 | 53.4 |
| 32.5° | 812.6 | 641.4 | 195.7 | 64.6 | 56.9 | 52.8 | 51.7 | 51.7 | 51.1 | 50.6 | 50.2 |
| 35° | 871.9 | 661.2 | 154.4 | 60.5 | 53.4 | 49.3 | 47.9 | 47.9 | 47.3 | 47.2 | 46.8 |
| 37.5° | 953.6 | 691.2 | 120.0 | 56.9 | 49.9 | 45.6 | 44.1 | 43.8 | 43.3 | 42.8 | 42.5 |
| 40° | 1062.3 | 728.6 | 94.4 | 53.4 | 46.5 | 42.0 | 40.8 | 40.2 | 39.0 | 38.2 | 38.2 |
| 42.5° | 1199.0 | 771.0 | 76.6 | 49.6 | 42.5 | 38.4 | 37.5 | 36.7 | 34.8 | 33.9 | 33.5 |
| 45° | 1341.9 | 809.3 | 64.9 | 45.4 | 38.4 | 35.0 | 34.5 | 33.0 | 30.5 | 29.6 | 29.6 |
| 47.5° | 1444.8 | 818.1 | 57.1 | 41.3 | 34.8 | 31.4 | 31.0 | 28.3 | 26.1 | 25.5 | 25.2 |
| 50° | 1509.2 | 800.6 | 50.8 | 37.3 | 31.4 | 27.8 | 26.9 | 23.9 | 22.4 | 21.7 | 21.5 |
| 52.5° | 1552.5 | 769.4 | 45.6 | 33.9 | 28.1 | 24.7 | 22.6 | 20.4 | 19.3 | 18.7 | 18.7 |
| 55° | 1587.2 | 725.1 | 40.5 | 30.7 | 25.5 | 22.1 | 19.3 | 17.4 | 16.3 | 15.8 | 15.8 |
| 57.5° | 1596.9 | 665.1 | 35.4 | 28.1 | 22.9 | 19.6 | 16.3 | 15.2 | 13.7 | 13.5 | 13.5 |
| 60° | 1526.1 | 556.9 | 31.4 | 25.0 | 20.8 | 17.0 | 14.4 | 12.9 | 11.5 | 11.1 | 10.9 |
| 62.5° | 1339.3 | 431.0 | 27.6 | 22.1 | 18.1 | 14.6 | 12.3 | 10.6 | 9.4 | 9.4 | 9.4 |
| 65° | 1021.6 | 289.0 | 24.2 | 19.3 | 15.8 | 12.3 | 10.6 | 8.7 | 8.1 | 8.1 | 8.4 |
| 67.5° | 611.6 | 157.3 | 20.8 | 16.3 | 13.5 | 10.3 | 9.0 | 7.5 | 7.1 | 7.5 | 7.5 |
| 69° | 358.5 | 92.3 | 18.7 | 14.6 | 11.8 | 9.3 | 7.7 | 6.6 | 7.1 | 7.5 | 7.5 |
| 70° | 221.3 | 62.3 | 17.2 | 13.1 | 10.6 | 8.4 | 7.1 | 6.3 | 6.8 | 7.1 | 7.1 |
| 72.5° | 61.8 | 32.1 | 13.7 | 10.3 | 8.7 | 6.8 | 5.7 | 5.7 | 6.6 | 6.8 | 6.8 |
| 75° | 40.2 | 23.9 | 10.6 | 7.7 | 6.6 | 5.5 | 4.9 | 5.5 | 6.3 | 6.6 | 6.6 |
| 77.5° | 33.2 | 19.6 | 8.7 | 6.3 | 5.5 | 5.2 | 4.6 | 4.9 | 5.7 | 6.0 | 6.0 |
| 80° | 30.5 | 13.7 | 6.8 | 5.7 | 4.9 | 4.6 | 4.3 | 4.0 | 5.2 | 5.5 | 5.5 |
| 82.5° | 28.9 | 10.9 | 6.0 | 5.2 | 4.6 | 4.0 | 3.8 | 4.0 | 4.6 | 4.9 | 5.2 |
| 85° | 18.1 | 7.1 | 5.5 | 4.9 | 4.0 | 3.8 | 3.8 | 3.8 | 4.3 | 4.6 | 4.6 |
| 87.5° | 6.6 | 5.7 | 4.9 | 4.0 | 3.5 | 3.5 | 3.5 | 3.5 | 3.8 | 4.3 | 4.3 |
| 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)