

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: P588595

Luminaire Tested: **ARC-CA6-120-750-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-120-750-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5246 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

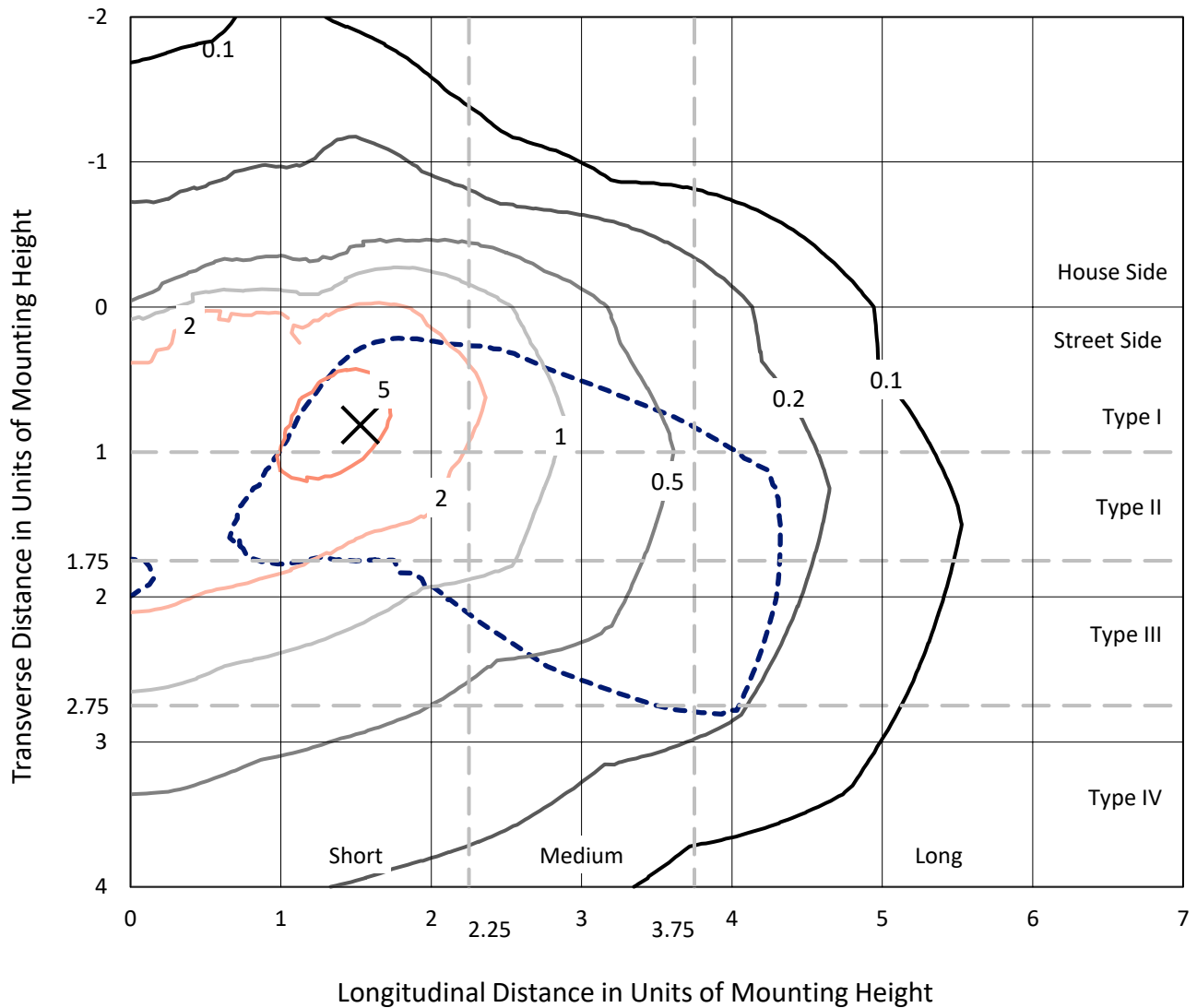
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

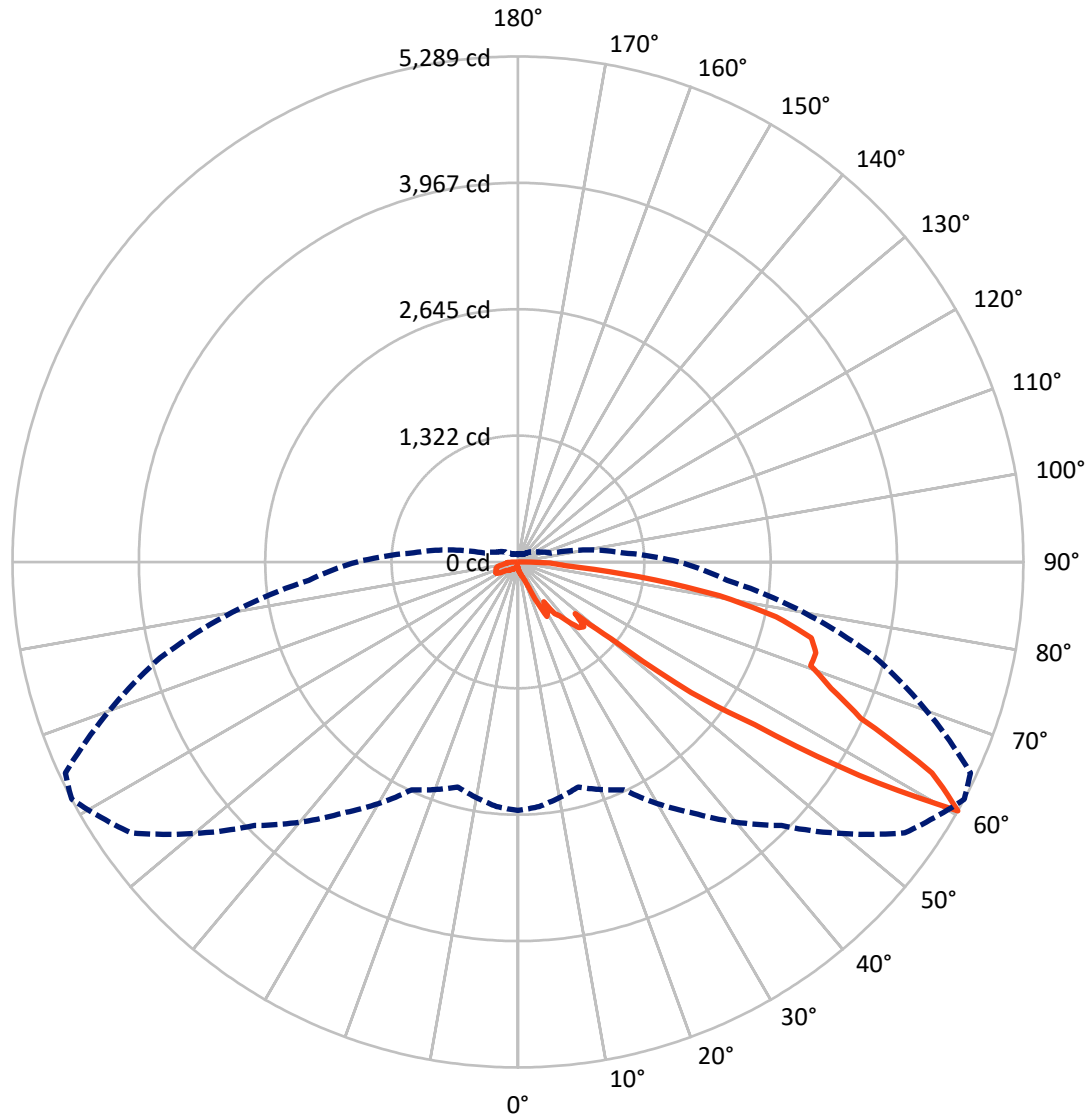
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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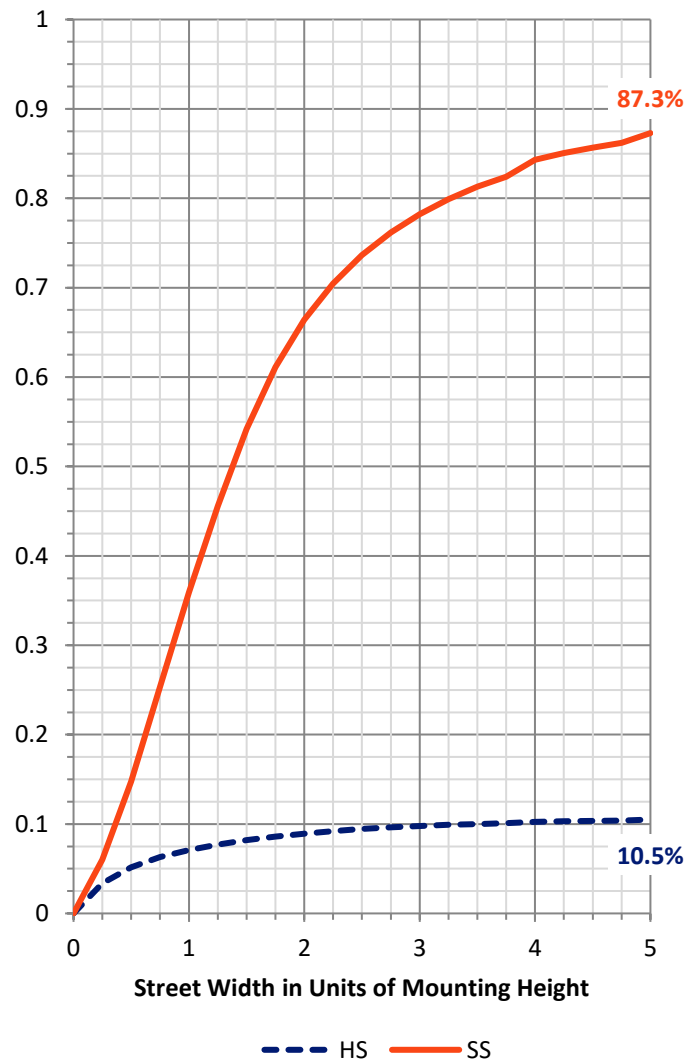
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 572.7 | 0.0 | 572.7 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 4673.3 | 0.0 | 4673.3 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 5246.0 | 0.0 | 5246.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.0 | 0.1 |
| 10°-20° | 29.8 | 0.6 |
| 20°-30° | 111.3 | 2.1 |
| 30°-40° | 219.8 | 4.2 |
| 40°-50° | 380.4 | 7.3 |
| 50°-60° | 1126.4 | 21.5 |
| 60°-70° | 1664.1 | 31.7 |
| 70°-80° | 1334.7 | 25.4 |
| 80°-90° | 372.4 | 7.1 |
| 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° | 5246.0 | 100.0 |
| 0°-180° | 5246.0 | 100.0 |



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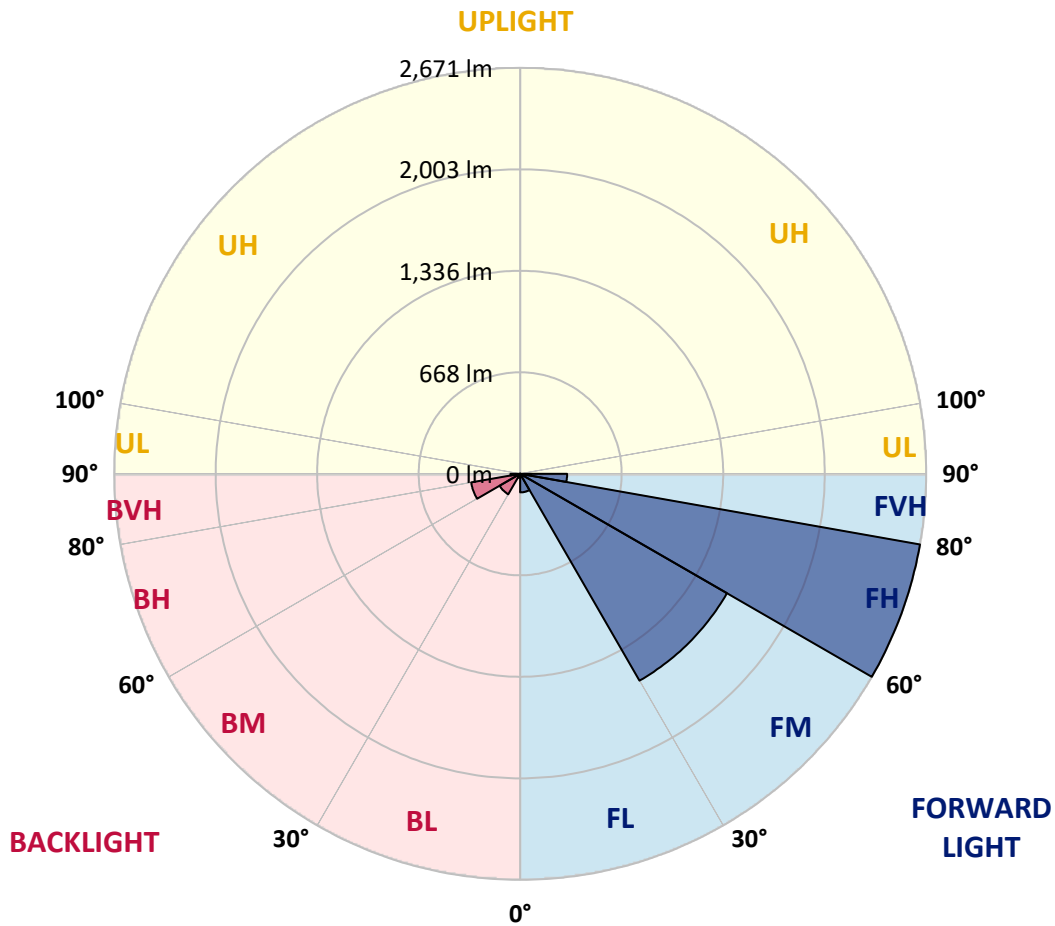
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 122.5 | 2.3 | | | |
| FM (30°-60°) | 1571.0 | 29.9 | | | |
| FH (60°-80°) | 2671.2 | 50.9 | | | G2/5000 |
| FVH (80°-90°) | 308.6 | 5.9 | | | G3/500 |
| BL (0°-30°) | 25.6 | 0.5 | B0/110 | | |
| BM (30°-60°) | 155.7 | 3.0 | B0/220 | | |
| BH (60°-80°) | 327.6 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 63.9 | 1.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 |
| 2.5° | 87.9 | 86.5 | 83.6 | 80.8 | 79.4 | 77.9 | 76.5 | 75.1 | 73.7 | 69.4 | 66.6 |
| 5° | 107.7 | 106.3 | 103.5 | 99.2 | 95.0 | 92.1 | 90.7 | 89.3 | 86.5 | 82.2 | 75.1 |
| 7.5° | 121.9 | 121.9 | 121.9 | 119.0 | 114.8 | 109.1 | 104.9 | 102.0 | 99.2 | 93.5 | 86.5 |
| 10° | 138.9 | 137.5 | 137.5 | 133.2 | 129.0 | 124.7 | 121.9 | 119.0 | 116.2 | 107.7 | 96.4 |
| 12.5° | 151.6 | 150.2 | 148.8 | 144.6 | 143.1 | 138.9 | 137.5 | 131.8 | 129.0 | 119.0 | 104.9 |
| 15° | 165.8 | 164.4 | 161.6 | 160.1 | 155.9 | 153.1 | 154.5 | 153.1 | 150.2 | 137.5 | 116.2 |
| 17.5° | 181.4 | 180.0 | 178.6 | 178.6 | 178.6 | 175.7 | 174.3 | 171.5 | 168.7 | 148.8 | 123.3 |
| 20° | 212.6 | 208.3 | 204.1 | 201.2 | 206.9 | 208.3 | 208.3 | 205.5 | 205.5 | 171.5 | 141.7 |
| 22.5° | 270.7 | 266.4 | 263.6 | 242.3 | 250.9 | 290.5 | 303.3 | 289.1 | 292.0 | 225.3 | 155.9 |
| 25° | 425.2 | 411.0 | 403.9 | 406.7 | 430.8 | 474.8 | 481.9 | 464.9 | 473.4 | 350.1 | 249.4 |
| 27.5° | 497.5 | 500.3 | 555.6 | 612.3 | 619.3 | 642.0 | 680.3 | 644.8 | 626.4 | 447.8 | 311.8 |
| 30° | 507.4 | 513.0 | 615.1 | 660.4 | 643.4 | 632.1 | 717.1 | 613.7 | 582.5 | 423.8 | 343.0 |
| 32.5° | 467.7 | 493.2 | 602.3 | 620.8 | 581.1 | 518.7 | 581.1 | 494.6 | 484.7 | 368.5 | 326.0 |
| 35° | 542.8 | 555.6 | 605.2 | 534.3 | 521.5 | 598.1 | 758.2 | 664.7 | 642.0 | 454.9 | 313.2 |
| 37.5° | 657.6 | 653.4 | 748.3 | 803.6 | 783.7 | 705.8 | 789.4 | 718.5 | 700.1 | 572.6 | 447.8 |
| 40° | 803.6 | 793.7 | 908.5 | 934.0 | 915.5 | 911.3 | 1021.8 | 831.9 | 796.5 | 639.2 | 531.5 |
| 42.5° | 844.7 | 847.5 | 921.2 | 983.6 | 969.4 | 968.0 | 1133.8 | 938.2 | 884.4 | 646.3 | 583.9 |
| 45° | 863.1 | 878.7 | 1020.4 | 982.2 | 996.3 | 970.8 | 1118.2 | 966.6 | 921.2 | 718.5 | 687.4 |
| 47.5° | 749.7 | 758.2 | 953.8 | 955.2 | 775.2 | 780.9 | 912.7 | 805.0 | 772.4 | 562.6 | 592.4 |
| 50° | 968.0 | 966.6 | 1037.4 | 980.7 | 898.5 | 1040.3 | 1306.7 | 1265.6 | 1241.5 | 844.7 | 657.6 |
| 52.5° | 1400.2 | 1384.7 | 1492.4 | 1581.6 | 1564.6 | 1892.0 | 2288.9 | 2271.8 | 2185.4 | 1656.8 | 1038.8 |
| 55° | 1842.4 | 1835.3 | 1954.4 | 2269.0 | 2420.7 | 2728.2 | 3113.7 | 3006.0 | 2973.4 | 2440.5 | 1632.7 |
| 57.5° | 2206.7 | 2208.1 | 2246.3 | 2517.0 | 2826.0 | 3421.2 | 4088.8 | 4214.9 | 4148.3 | 3150.5 | 1984.1 |
| 60° | 2599.2 | 2568.1 | 2437.7 | 2630.4 | 3208.6 | 3900.3 | 4941.9 | 5289.2 | 5225.4 | 3876.2 | 2196.7 |
| 62.5° | 2626.2 | 2595.0 | 2372.5 | 2568.1 | 3010.2 | 3646.6 | 4582.0 | 4864.0 | 4937.7 | 4073.2 | 2260.5 |
| 65° | 2507.1 | 2468.8 | 2193.9 | 2339.9 | 2519.9 | 2905.4 | 4051.9 | 3939.9 | 4046.2 | 4012.2 | 2259.1 |
| 67.5° | 2375.3 | 2344.1 | 2086.2 | 2208.1 | 2347.0 | 2604.9 | 3813.8 | 3534.6 | 3643.7 | 3774.1 | 2365.4 |
| 70° | 2242.1 | 2198.1 | 1989.8 | 2121.6 | 2293.1 | 2467.4 | 3511.9 | 3249.7 | 3221.4 | 3197.3 | 2259.1 |
| 72.5° | 2219.4 | 2185.4 | 1964.3 | 2056.4 | 2250.6 | 2379.6 | 3462.3 | 3261.1 | 3232.7 | 3083.9 | 2066.3 |
| 75° | 2046.5 | 2043.7 | 1831.1 | 1917.5 | 2151.4 | 2232.2 | 3324.9 | 3170.4 | 3110.9 | 2919.5 | 1818.3 |
| 77.5° | 1652.5 | 1631.3 | 1476.8 | 1567.5 | 1778.6 | 1890.6 | 2861.4 | 2760.8 | 2726.8 | 2548.2 | 1503.7 |
| 80° | 1111.1 | 1092.7 | 1026.1 | 1078.5 | 1275.5 | 1373.3 | 2147.1 | 2138.6 | 2113.1 | 1995.5 | 1111.1 |
| 82.5° | 632.1 | 663.3 | 600.9 | 625.0 | 693.0 | 813.5 | 1335.0 | 1276.9 | 1258.5 | 1174.9 | 630.7 |
| 85° | 355.7 | 348.6 | 324.5 | 321.7 | 375.6 | 369.9 | 576.8 | 494.6 | 514.5 | 445.0 | 300.5 |
| 87.5° | 256.5 | 262.2 | 236.7 | 236.7 | 262.2 | 259.4 | 362.8 | 341.6 | 338.7 | 317.5 | 215.4 |
| 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° | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 |
| 2.5° | 65.2 | 63.8 | 59.5 | 55.3 | 48.2 | 41.1 | 36.8 | 39.7 | 41.1 | 42.5 | 42.5 |
| 5° | 70.9 | 68.0 | 59.5 | 51.0 | 42.5 | 35.4 | 29.8 | 26.9 | 26.9 | 28.3 | 28.3 |
| 7.5° | 83.6 | 79.4 | 68.0 | 58.1 | 46.8 | 39.7 | 32.6 | 28.3 | 25.5 | 25.5 | 25.5 |
| 10° | 90.7 | 86.5 | 73.7 | 62.4 | 51.0 | 42.5 | 35.4 | 29.8 | 26.9 | 25.5 | 25.5 |
| 12.5° | 97.8 | 92.1 | 79.4 | 66.6 | 53.9 | 43.9 | 36.8 | 31.2 | 29.8 | 29.8 | 29.8 |
| 15° | 106.3 | 97.8 | 82.2 | 68.0 | 55.3 | 45.4 | 36.8 | 32.6 | 31.2 | 31.2 | 31.2 |
| 17.5° | 114.8 | 106.3 | 87.9 | 69.4 | 56.7 | 45.4 | 38.3 | 32.6 | 31.2 | 32.6 | 32.6 |
| 20° | 129.0 | 113.4 | 87.9 | 70.9 | 56.7 | 45.4 | 38.3 | 32.6 | 32.6 | 32.6 | 32.6 |
| 22.5° | 136.1 | 123.3 | 93.5 | 72.3 | 58.1 | 46.8 | 38.3 | 32.6 | 32.6 | 32.6 | 32.6 |
| 25° | 209.8 | 155.9 | 97.8 | 75.1 | 59.5 | 48.2 | 38.3 | 34.0 | 32.6 | 34.0 | 34.0 |
| 27.5° | 263.6 | 219.7 | 112.0 | 79.4 | 60.9 | 49.6 | 39.7 | 34.0 | 34.0 | 35.4 | 35.4 |
| 30° | 293.4 | 250.9 | 121.9 | 86.5 | 65.2 | 51.0 | 41.1 | 35.4 | 35.4 | 35.4 | 35.4 |
| 32.5° | 279.2 | 226.8 | 123.3 | 95.0 | 72.3 | 53.9 | 42.5 | 36.8 | 36.8 | 36.8 | 36.8 |
| 35° | 242.3 | 187.1 | 120.5 | 96.4 | 76.5 | 59.5 | 45.4 | 38.3 | 38.3 | 36.8 | 36.8 |
| 37.5° | 338.7 | 235.3 | 124.7 | 96.4 | 79.4 | 63.8 | 49.6 | 41.1 | 39.7 | 38.3 | 38.3 |
| 40° | 401.1 | 262.2 | 137.5 | 103.5 | 79.4 | 65.2 | 52.4 | 45.4 | 42.5 | 41.1 | 39.7 |
| 42.5° | 445.0 | 287.7 | 147.4 | 113.4 | 87.9 | 68.0 | 53.9 | 49.6 | 45.4 | 42.5 | 42.5 |
| 45° | 508.8 | 304.7 | 160.1 | 124.7 | 96.4 | 75.1 | 58.1 | 51.0 | 49.6 | 46.8 | 45.4 |
| 47.5° | 464.9 | 310.4 | 172.9 | 137.5 | 106.3 | 82.2 | 63.8 | 55.3 | 53.9 | 51.0 | 49.6 |
| 50° | 477.6 | 301.9 | 177.2 | 146.0 | 116.2 | 87.9 | 69.4 | 60.9 | 58.1 | 55.3 | 55.3 |
| 52.5° | 651.9 | 399.7 | 194.2 | 150.2 | 120.5 | 96.4 | 75.1 | 66.6 | 63.8 | 60.9 | 60.9 |
| 55° | 1064.4 | 612.3 | 239.5 | 165.8 | 124.7 | 99.2 | 80.8 | 73.7 | 69.4 | 66.6 | 65.2 |
| 57.5° | 1390.3 | 864.5 | 303.3 | 202.7 | 148.8 | 104.9 | 83.6 | 80.8 | 77.9 | 72.3 | 70.9 |
| 60° | 1686.5 | 1095.5 | 357.1 | 243.8 | 187.1 | 136.1 | 96.4 | 89.3 | 87.9 | 79.4 | 76.5 |
| 62.5° | 1927.5 | 1286.9 | 401.1 | 266.4 | 214.0 | 175.7 | 131.8 | 110.5 | 99.2 | 89.3 | 86.5 |
| 65° | 2015.3 | 1350.6 | 418.1 | 270.7 | 221.1 | 195.6 | 165.8 | 150.2 | 117.6 | 102.0 | 99.2 |
| 67.5° | 2049.3 | 1336.5 | 426.6 | 262.2 | 215.4 | 195.6 | 174.3 | 175.7 | 143.1 | 113.4 | 109.1 |
| 70° | 1982.7 | 1281.2 | 422.3 | 253.7 | 206.9 | 189.9 | 170.1 | 164.4 | 148.8 | 121.9 | 116.2 |
| 72.5° | 1832.5 | 1230.2 | 420.9 | 252.3 | 204.1 | 182.8 | 157.3 | 140.3 | 127.6 | 120.5 | 117.6 |
| 75° | 1682.3 | 1196.2 | 415.3 | 250.9 | 199.8 | 172.9 | 143.1 | 121.9 | 104.9 | 106.3 | 109.1 |
| 77.5° | 1428.6 | 1055.8 | 384.1 | 232.4 | 180.0 | 150.2 | 123.3 | 107.7 | 95.0 | 93.5 | 93.5 |
| 80° | 1079.9 | 783.7 | 314.6 | 194.2 | 147.4 | 121.9 | 102.0 | 96.4 | 89.3 | 86.5 | 85.0 |
| 82.5° | 598.1 | 412.4 | 202.7 | 144.6 | 116.2 | 95.0 | 86.5 | 86.5 | 82.2 | 77.9 | 77.9 |
| 85° | 273.5 | 231.0 | 150.2 | 120.5 | 99.2 | 82.2 | 75.1 | 75.1 | 70.9 | 66.6 | 65.2 |
| 87.5° | 212.6 | 182.8 | 127.6 | 112.0 | 96.4 | 80.8 | 72.3 | 72.3 | 68.0 | 65.2 | 65.2 |
| 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)