

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: P588593

Luminaire Tested: **ARC-CA6-120-740-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588593
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-CA6-120-740-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152 lumens
Efficiency: N/A
Efficacy: 86.2 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

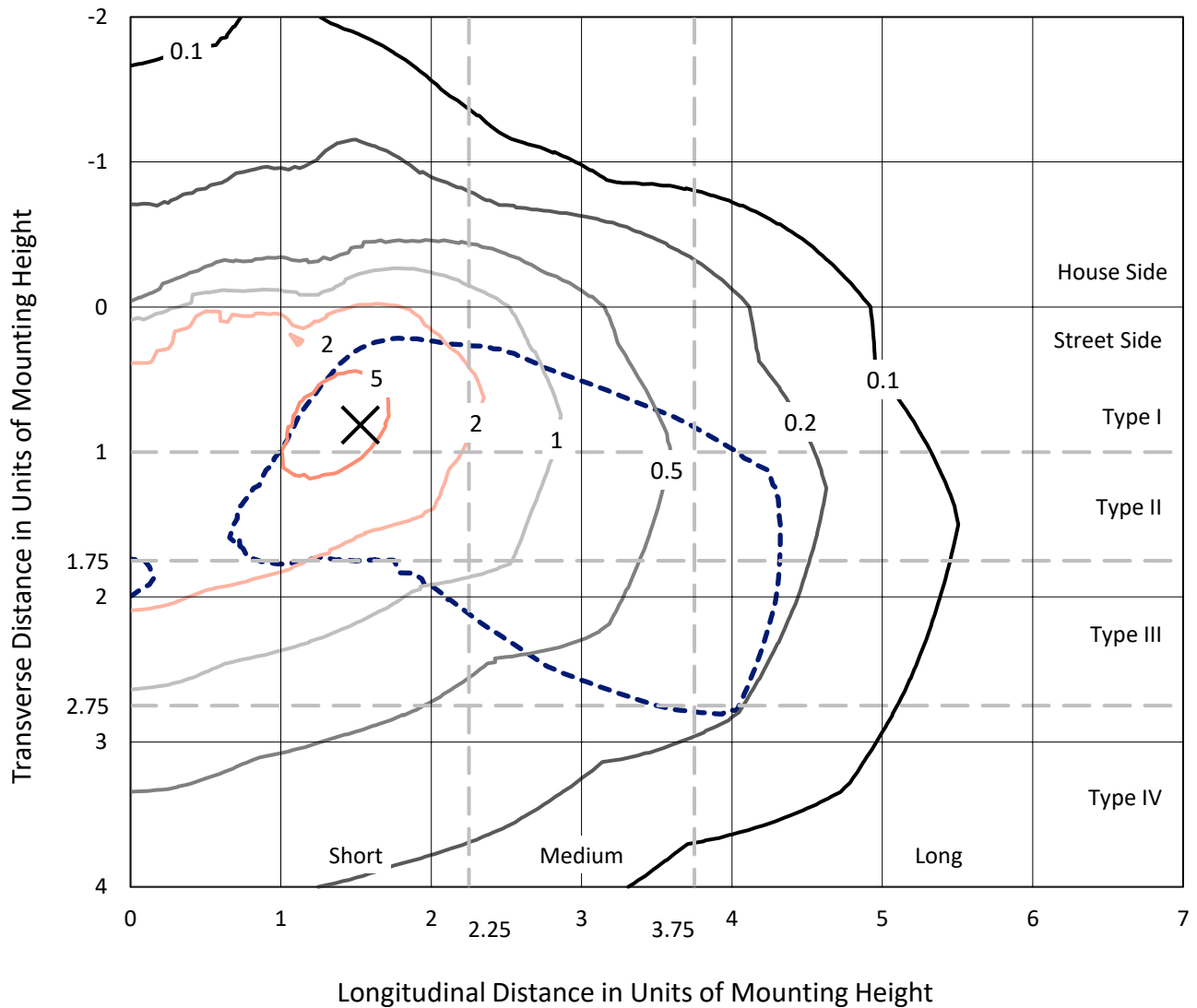
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

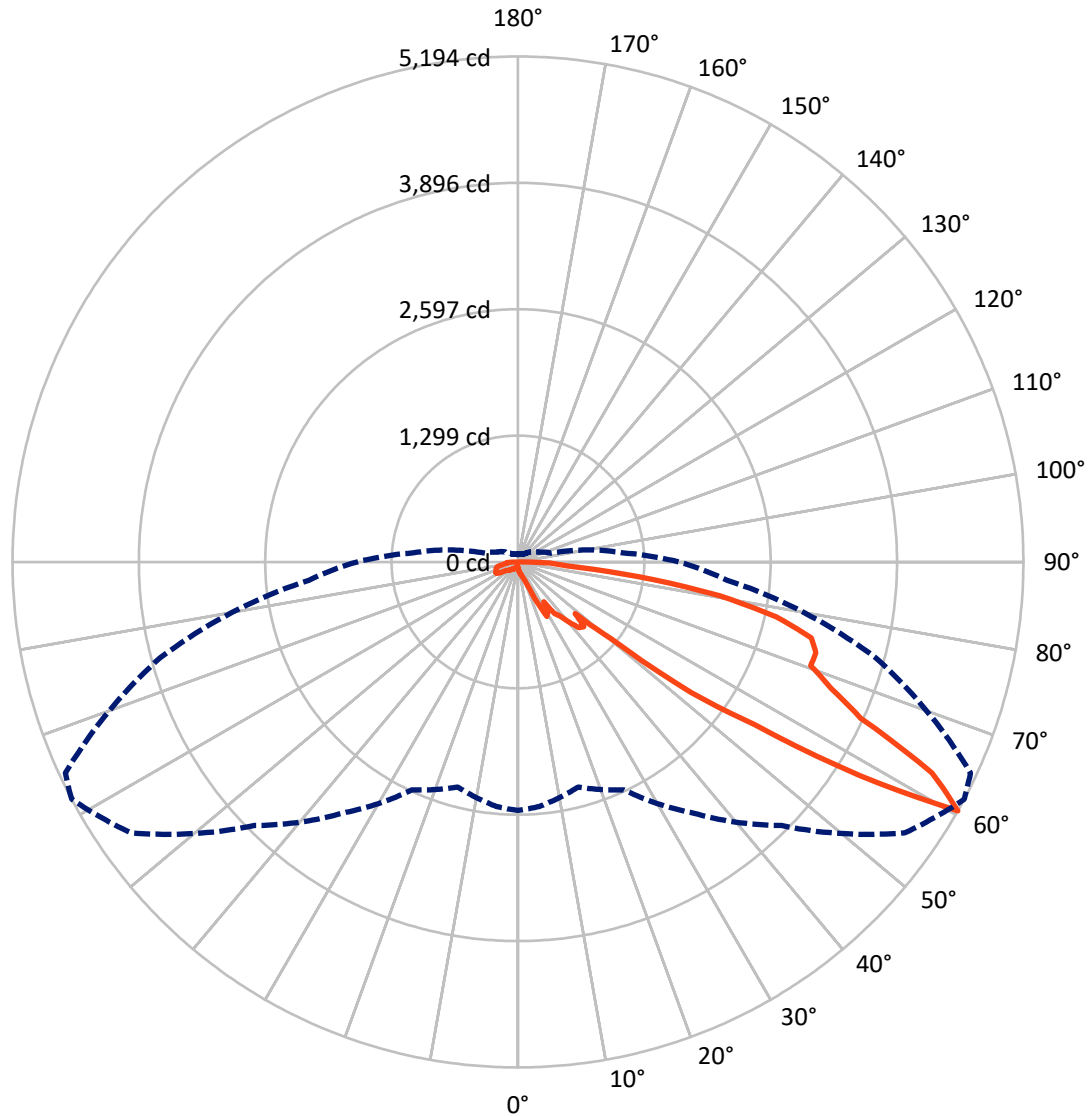
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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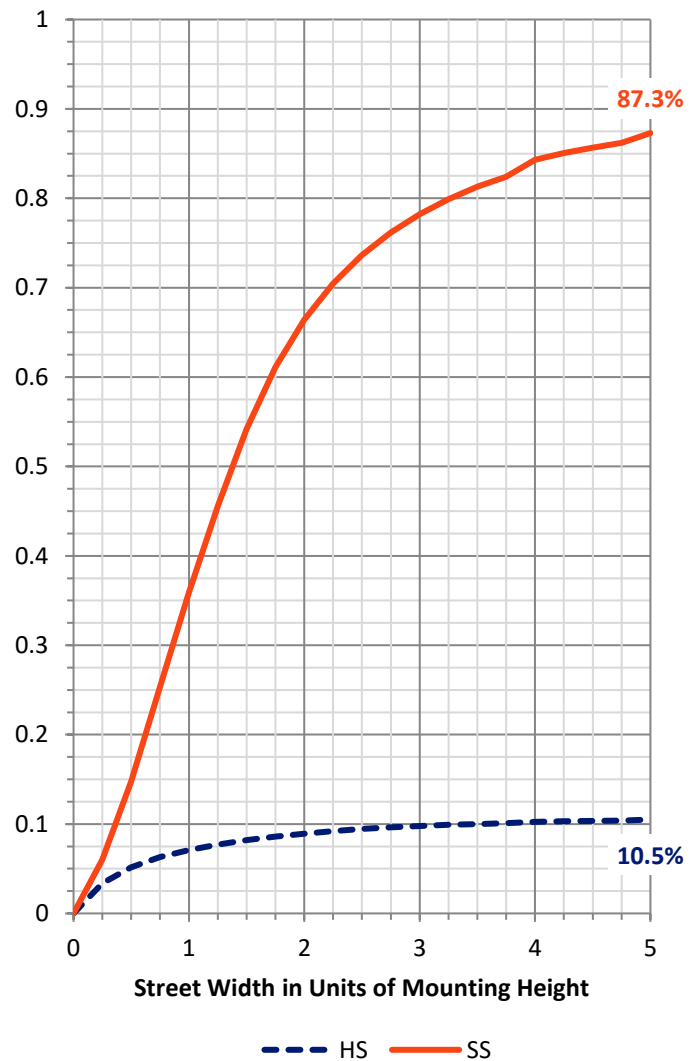
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 562.4 | 0.0 | 562.4 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 4589.6 | 0.0 | 4589.6 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 5152.0 | 0.0 | 5152.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.9 | 0.1 |
| 10°-20° | 29.3 | 0.6 |
| 20°-30° | 109.3 | 2.1 |
| 30°-40° | 215.9 | 4.2 |
| 40°-50° | 373.6 | 7.3 |
| 50°-60° | 1106.2 | 21.5 |
| 60°-70° | 1634.3 | 31.7 |
| 70°-80° | 1310.8 | 25.4 |
| 80°-90° | 365.8 | 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° | 5152.0 | 100.0 |
| 0°-180° | 5152.0 | 100.0 |

Coefficient of Utilization



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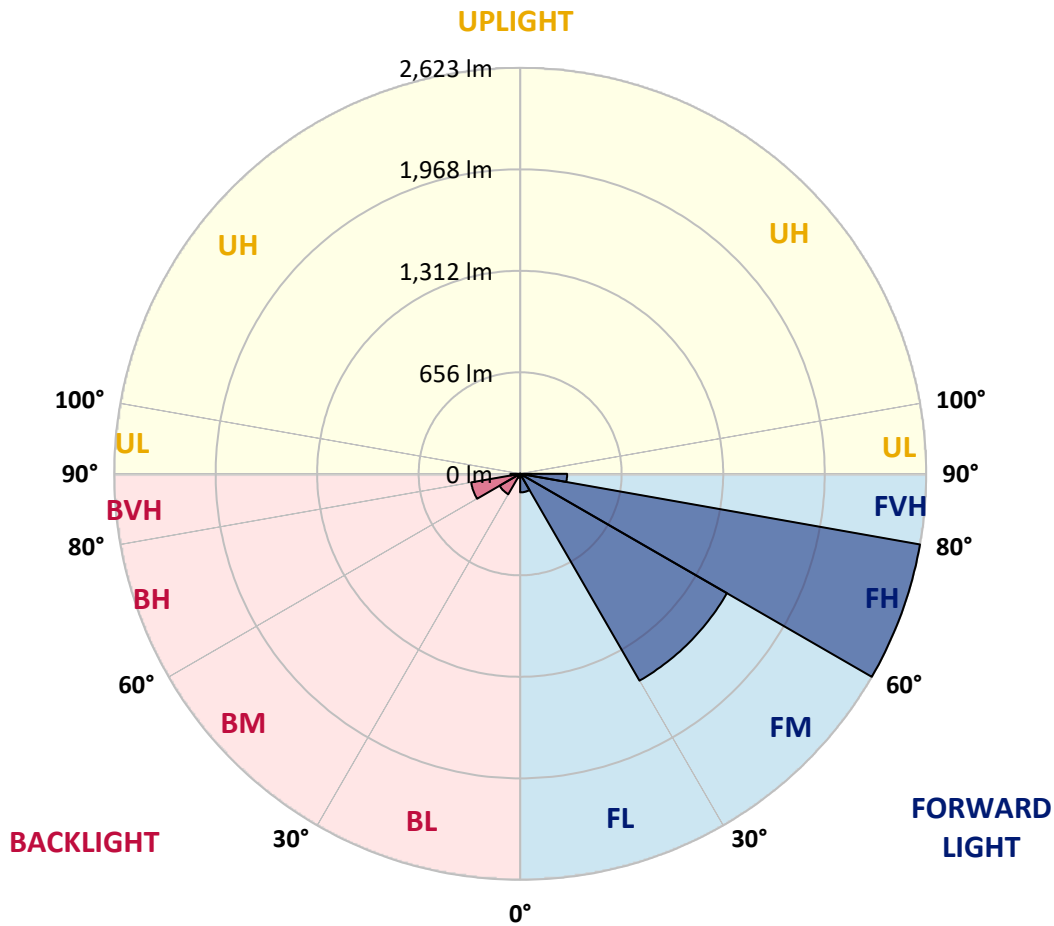
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 120.3 | 2.3 | | | |
| FM (30°-60°) | 1542.8 | 29.9 | | | |
| FH (60°-80°) | 2623.4 | 50.9 | | | G2/5000 |
| FVH (80°-90°) | 303.1 | 5.9 | | | G3/500 |
| BL (0°-30°) | 25.1 | 0.5 | B0/110 | | |
| BM (30°-60°) | 152.9 | 3.0 | B0/220 | | |
| BH (60°-80°) | 321.7 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 62.7 | 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° | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 |
| 2.5° | 86.3 | 84.9 | 82.1 | 79.3 | 77.9 | 76.6 | 75.2 | 73.8 | 72.4 | 68.2 | 65.4 |
| 5° | 105.8 | 104.4 | 101.6 | 97.4 | 93.3 | 90.5 | 89.1 | 87.7 | 84.9 | 80.7 | 73.8 |
| 7.5° | 119.7 | 119.7 | 119.7 | 116.9 | 112.7 | 107.2 | 103.0 | 100.2 | 97.4 | 91.9 | 84.9 |
| 10° | 136.4 | 135.0 | 135.0 | 130.8 | 126.7 | 122.5 | 119.7 | 116.9 | 114.1 | 105.8 | 94.6 |
| 12.5° | 148.9 | 147.5 | 146.1 | 142.0 | 140.6 | 136.4 | 135.0 | 129.4 | 126.7 | 116.9 | 103.0 |
| 15° | 162.8 | 161.5 | 158.7 | 157.3 | 153.1 | 150.3 | 151.7 | 150.3 | 147.5 | 135.0 | 114.1 |
| 17.5° | 178.2 | 176.8 | 175.4 | 175.4 | 175.4 | 172.6 | 171.2 | 168.4 | 165.6 | 146.1 | 121.1 |
| 20° | 208.8 | 204.6 | 200.4 | 197.6 | 203.2 | 204.6 | 204.6 | 201.8 | 201.8 | 168.4 | 139.2 |
| 22.5° | 265.8 | 261.7 | 258.9 | 238.0 | 246.4 | 285.3 | 297.9 | 283.9 | 286.7 | 221.3 | 153.1 |
| 25° | 417.6 | 403.6 | 396.7 | 399.5 | 423.1 | 466.3 | 473.2 | 456.5 | 464.9 | 343.8 | 245.0 |
| 27.5° | 488.5 | 491.3 | 545.6 | 601.3 | 608.2 | 630.5 | 668.1 | 633.3 | 615.2 | 439.8 | 306.2 |
| 30° | 498.3 | 503.9 | 604.1 | 648.6 | 631.9 | 620.8 | 704.3 | 602.7 | 572.1 | 416.2 | 336.8 |
| 32.5° | 459.3 | 484.4 | 591.5 | 609.6 | 570.7 | 509.4 | 570.7 | 485.8 | 476.0 | 361.9 | 320.1 |
| 35° | 533.1 | 545.6 | 594.3 | 524.7 | 512.2 | 587.4 | 744.6 | 652.8 | 630.5 | 446.8 | 307.6 |
| 37.5° | 645.8 | 641.6 | 734.9 | 789.2 | 769.7 | 693.1 | 775.3 | 705.7 | 687.6 | 562.3 | 439.8 |
| 40° | 789.2 | 779.4 | 892.2 | 917.2 | 899.1 | 895.0 | 1003.5 | 817.0 | 782.2 | 627.7 | 521.9 |
| 42.5° | 829.5 | 832.3 | 904.7 | 965.9 | 952.0 | 950.6 | 1113.5 | 921.4 | 868.5 | 634.7 | 573.4 |
| 45° | 847.6 | 862.9 | 1002.1 | 964.6 | 978.5 | 953.4 | 1098.2 | 949.2 | 904.7 | 705.7 | 675.0 |
| 47.5° | 736.3 | 744.6 | 936.7 | 938.1 | 761.3 | 766.9 | 896.4 | 790.6 | 758.6 | 552.6 | 581.8 |
| 50° | 950.6 | 949.2 | 1018.8 | 963.2 | 882.4 | 1021.6 | 1283.3 | 1242.9 | 1219.3 | 829.5 | 645.8 |
| 52.5° | 1375.1 | 1359.8 | 1465.6 | 1553.3 | 1536.6 | 1858.1 | 2247.8 | 2231.1 | 2146.2 | 1627.1 | 1020.2 |
| 55° | 1809.4 | 1802.4 | 1919.4 | 2228.4 | 2377.3 | 2679.3 | 3057.9 | 2952.1 | 2920.1 | 2396.8 | 1603.4 |
| 57.5° | 2167.1 | 2168.5 | 2206.1 | 2471.9 | 2775.4 | 3359.9 | 4015.5 | 4139.4 | 4074.0 | 3094.1 | 1948.6 |
| 60° | 2552.7 | 2522.0 | 2394.0 | 2583.3 | 3151.2 | 3830.4 | 4853.4 | 5194.4 | 5131.8 | 3806.7 | 2157.4 |
| 62.5° | 2579.1 | 2548.5 | 2330.0 | 2522.0 | 2956.3 | 3581.2 | 4499.9 | 4776.8 | 4849.2 | 4000.2 | 2220.0 |
| 65° | 2462.2 | 2424.6 | 2154.6 | 2297.9 | 2474.7 | 2853.3 | 3979.3 | 3869.3 | 3973.7 | 3940.3 | 2218.6 |
| 67.5° | 2332.7 | 2302.1 | 2048.8 | 2168.5 | 2304.9 | 2558.2 | 3745.5 | 3471.3 | 3578.5 | 3706.5 | 2323.0 |
| 70° | 2201.9 | 2158.8 | 1954.2 | 2083.6 | 2252.0 | 2423.2 | 3449.0 | 3191.5 | 3163.7 | 3140.0 | 2218.6 |
| 72.5° | 2179.6 | 2146.2 | 1929.1 | 2019.6 | 2210.3 | 2336.9 | 3400.3 | 3202.7 | 3174.8 | 3028.7 | 2029.3 |
| 75° | 2009.8 | 2007.1 | 1798.3 | 1883.2 | 2112.8 | 2192.2 | 3265.3 | 3113.6 | 3055.1 | 2867.2 | 1785.7 |
| 77.5° | 1622.9 | 1602.0 | 1450.3 | 1539.4 | 1746.8 | 1856.7 | 2810.1 | 2711.3 | 2677.9 | 2502.5 | 1476.8 |
| 80° | 1091.2 | 1073.1 | 1007.7 | 1059.2 | 1252.7 | 1348.7 | 2108.7 | 2100.3 | 2075.3 | 1959.7 | 1091.2 |
| 82.5° | 620.8 | 651.4 | 590.1 | 613.8 | 680.6 | 798.9 | 1311.1 | 1254.1 | 1236.0 | 1153.8 | 619.4 |
| 85° | 349.4 | 342.4 | 318.7 | 316.0 | 368.8 | 363.3 | 566.5 | 485.8 | 505.2 | 437.0 | 295.1 |
| 87.5° | 251.9 | 257.5 | 232.4 | 232.4 | 257.5 | 254.7 | 356.3 | 335.4 | 332.7 | 311.8 | 211.6 |
| 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° | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 |
| 2.5° | 64.0 | 62.6 | 58.5 | 54.3 | 47.3 | 40.4 | 36.2 | 39.0 | 40.4 | 41.8 | 41.8 |
| 5° | 69.6 | 66.8 | 58.5 | 50.1 | 41.8 | 34.8 | 29.2 | 26.4 | 26.4 | 27.8 | 27.8 |
| 7.5° | 82.1 | 77.9 | 66.8 | 57.1 | 45.9 | 39.0 | 32.0 | 27.8 | 25.1 | 25.1 | 25.1 |
| 10° | 89.1 | 84.9 | 72.4 | 61.2 | 50.1 | 41.8 | 34.8 | 29.2 | 26.4 | 25.1 | 25.1 |
| 12.5° | 96.0 | 90.5 | 77.9 | 65.4 | 52.9 | 43.1 | 36.2 | 30.6 | 29.2 | 29.2 | 29.2 |
| 15° | 104.4 | 96.0 | 80.7 | 66.8 | 54.3 | 44.5 | 36.2 | 32.0 | 30.6 | 30.6 | 30.6 |
| 17.5° | 112.7 | 104.4 | 86.3 | 68.2 | 55.7 | 44.5 | 37.6 | 32.0 | 30.6 | 32.0 | 32.0 |
| 20° | 126.7 | 111.3 | 86.3 | 69.6 | 55.7 | 44.5 | 37.6 | 32.0 | 32.0 | 32.0 | 32.0 |
| 22.5° | 133.6 | 121.1 | 91.9 | 71.0 | 57.1 | 45.9 | 37.6 | 32.0 | 32.0 | 32.0 | 32.0 |
| 25° | 206.0 | 153.1 | 96.0 | 73.8 | 58.5 | 47.3 | 37.6 | 33.4 | 32.0 | 33.4 | 33.4 |
| 27.5° | 258.9 | 215.7 | 110.0 | 77.9 | 59.8 | 48.7 | 39.0 | 33.4 | 33.4 | 34.8 | 34.8 |
| 30° | 288.1 | 246.4 | 119.7 | 84.9 | 64.0 | 50.1 | 40.4 | 34.8 | 34.8 | 34.8 | 34.8 |
| 32.5° | 274.2 | 222.7 | 121.1 | 93.3 | 71.0 | 52.9 | 41.8 | 36.2 | 36.2 | 36.2 | 36.2 |
| 35° | 238.0 | 183.7 | 118.3 | 94.6 | 75.2 | 58.5 | 44.5 | 37.6 | 37.6 | 36.2 | 36.2 |
| 37.5° | 332.7 | 231.0 | 122.5 | 94.6 | 77.9 | 62.6 | 48.7 | 40.4 | 39.0 | 37.6 | 37.6 |
| 40° | 393.9 | 257.5 | 135.0 | 101.6 | 77.9 | 64.0 | 51.5 | 44.5 | 41.8 | 40.4 | 39.0 |
| 42.5° | 437.0 | 282.5 | 144.8 | 111.3 | 86.3 | 66.8 | 52.9 | 48.7 | 44.5 | 41.8 | 41.8 |
| 45° | 499.7 | 299.2 | 157.3 | 122.5 | 94.6 | 73.8 | 57.1 | 50.1 | 48.7 | 45.9 | 44.5 |
| 47.5° | 456.5 | 304.8 | 169.8 | 135.0 | 104.4 | 80.7 | 62.6 | 54.3 | 52.9 | 50.1 | 48.7 |
| 50° | 469.1 | 296.5 | 174.0 | 143.4 | 114.1 | 86.3 | 68.2 | 59.8 | 57.1 | 54.3 | 54.3 |
| 52.5° | 640.3 | 392.5 | 190.7 | 147.5 | 118.3 | 94.6 | 73.8 | 65.4 | 62.6 | 59.8 | 59.8 |
| 55° | 1045.3 | 601.3 | 235.2 | 162.8 | 122.5 | 97.4 | 79.3 | 72.4 | 68.2 | 65.4 | 64.0 |
| 57.5° | 1365.4 | 849.0 | 297.9 | 199.0 | 146.1 | 103.0 | 82.1 | 79.3 | 76.6 | 71.0 | 69.6 |
| 60° | 1656.3 | 1075.9 | 350.7 | 239.4 | 183.7 | 133.6 | 94.6 | 87.7 | 86.3 | 77.9 | 75.2 |
| 62.5° | 1892.9 | 1263.8 | 393.9 | 261.7 | 210.2 | 172.6 | 129.4 | 108.6 | 97.4 | 87.7 | 84.9 |
| 65° | 1979.2 | 1326.4 | 410.6 | 265.8 | 217.1 | 192.1 | 162.8 | 147.5 | 115.5 | 100.2 | 97.4 |
| 67.5° | 2012.6 | 1312.5 | 418.9 | 257.5 | 211.6 | 192.1 | 171.2 | 172.6 | 140.6 | 111.3 | 107.2 |
| 70° | 1947.2 | 1258.2 | 414.8 | 249.1 | 203.2 | 186.5 | 167.0 | 161.5 | 146.1 | 119.7 | 114.1 |
| 72.5° | 1799.7 | 1208.1 | 413.4 | 247.7 | 200.4 | 179.5 | 154.5 | 137.8 | 125.3 | 118.3 | 115.5 |
| 75° | 1652.1 | 1174.7 | 407.8 | 246.4 | 196.3 | 169.8 | 140.6 | 119.7 | 103.0 | 104.4 | 107.2 |
| 77.5° | 1403.0 | 1036.9 | 377.2 | 228.3 | 176.8 | 147.5 | 121.1 | 105.8 | 93.3 | 91.9 | 91.9 |
| 80° | 1060.6 | 769.7 | 309.0 | 190.7 | 144.8 | 119.7 | 100.2 | 94.6 | 87.7 | 84.9 | 83.5 |
| 82.5° | 587.4 | 405.0 | 199.0 | 142.0 | 114.1 | 93.3 | 84.9 | 84.9 | 80.7 | 76.6 | 76.6 |
| 85° | 268.6 | 226.9 | 147.5 | 118.3 | 97.4 | 80.7 | 73.8 | 73.8 | 69.6 | 65.4 | 64.0 |
| 87.5° | 208.8 | 179.5 | 125.3 | 110.0 | 94.6 | 79.3 | 71.0 | 71.0 | 66.8 | 64.0 | 64.0 |
| 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)