

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: P588429

Luminaire Tested: **ARC-CA6-130-730-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-130-730-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11275 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G3

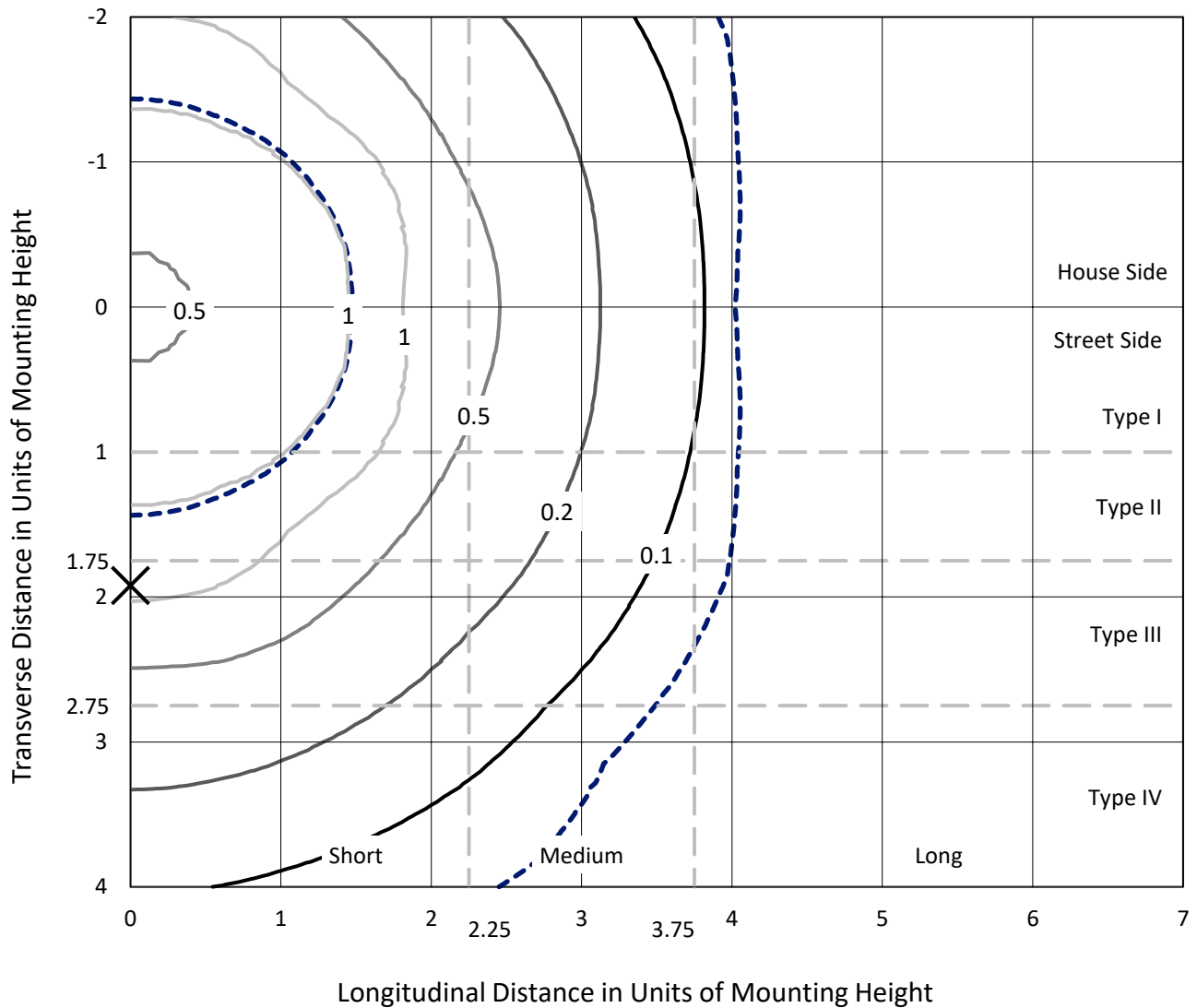
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

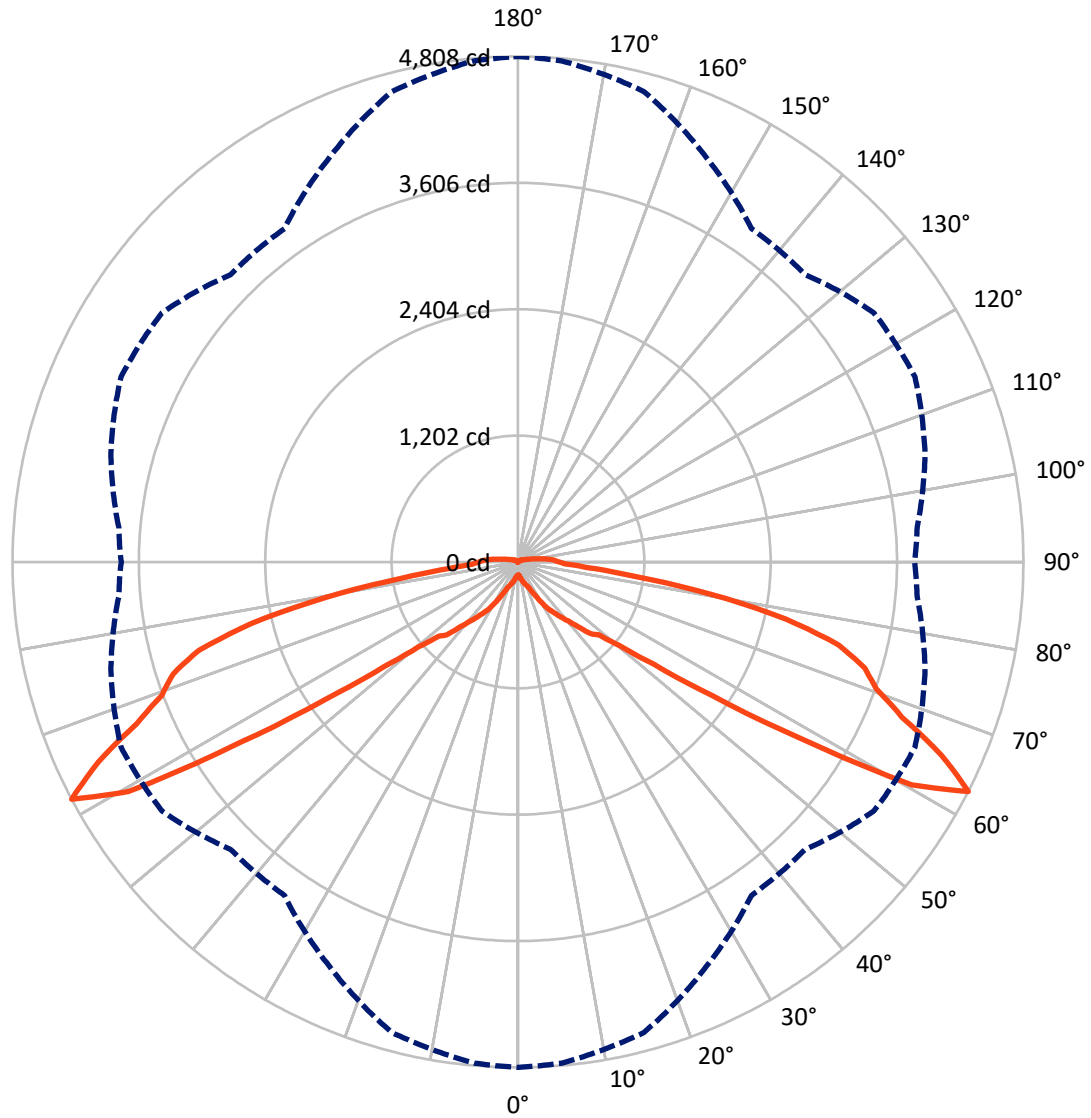
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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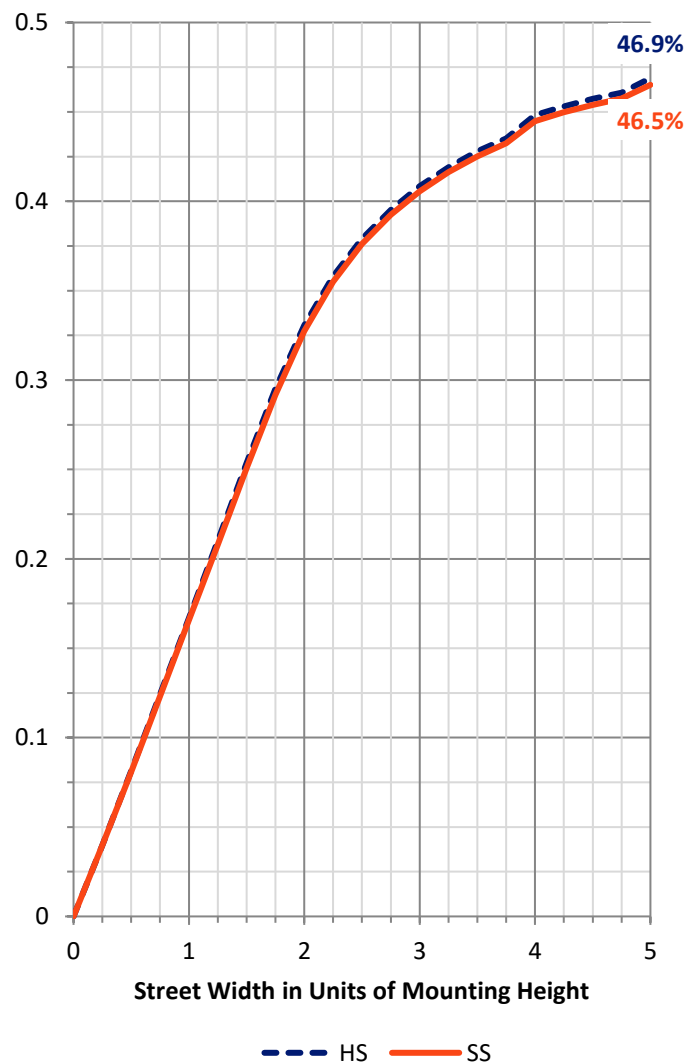
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5420.8 | 216.7 | 5637.5 |
| | % Fixture | 48.1 | 1.9 | 50.0 |
| Street Side | Lumens | 5420.8 | 216.7 | 5637.5 |
| | % Fixture | 48.1 | 1.9 | 50.0 |
| Total | Lumens | 10841.7 | 433.3 | 11275.0 |
| | % Fixture | 96.2 | 3.8 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 13.4 | 0.1 |
| 10°-20° | 56.8 | 0.5 |
| 20°-30° | 149.9 | 1.3 |
| 30°-40° | 341.0 | 3.0 |
| 40°-50° | 689.8 | 6.1 |
| 50°-60° | 2042.0 | 18.1 |
| 60°-70° | 3836.3 | 34.0 |
| 70°-80° | 2851.6 | 25.3 |
| 80°-90° | 860.8 | 7.6 |
| 90°-100° | 279.3 | 2.5 |
| 100°-110° | 97.9 | 0.9 |
| 110°-120° | 37.8 | 0.3 |
| 120°-130° | 15.0 | 0.1 |
| 130°-140° | 3.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.2 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-90° | 10841.7 | 96.2 |
| 0°-180° | 11275.0 | 100.0 |



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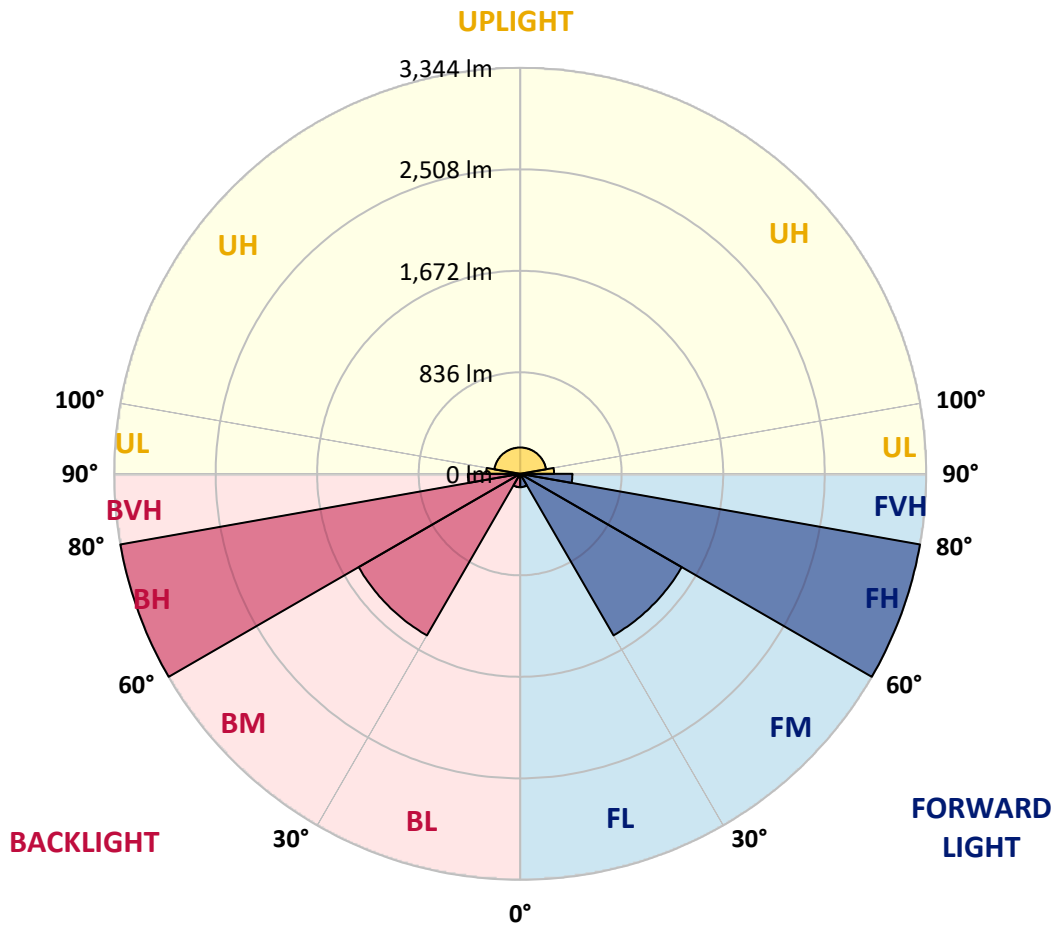
CATALOG NUMBER: ARC-CA6-130-730-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 110.1 | 1.0 | | | |
| FM (30°-60°) | 1536.4 | 13.6 | | | |
| FH (60°-80°) | 3343.9 | 29.7 | | | G2/5000 |
| FVH (80°-90°) | 430.4 | 3.8 | | | G3/500 |
| BL (0°-30°) | 110.1 | 1.0 | B1/500 | | |
| BM (30°-60°) | 1536.4 | 13.6 | B2/2500 | | |
| BH (60°-80°) | 3343.9 | 29.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 430.4 | 3.8 | | | G3/500 |
| UL (90°-100°) | 279.3 | 2.5 | | U3/500 | |
| UH (100°-180°) | 216.7 | 1.9 | | U3/500 | |

BUG Rating: B4-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 | 124.0 |
| 2.5° | 126.1 | 126.1 | 126.1 | 124.0 | 121.9 | 121.9 | 121.9 | 121.9 | 119.7 | 119.7 | 119.7 |
| 5° | 132.5 | 132.5 | 130.4 | 128.3 | 128.3 | 126.1 | 128.3 | 126.1 | 126.1 | 126.1 | 128.3 |
| 7.5° | 147.5 | 147.5 | 145.4 | 145.4 | 145.4 | 143.2 | 143.2 | 143.2 | 143.2 | 141.1 | 143.2 |
| 10° | 164.6 | 164.6 | 164.6 | 164.6 | 164.6 | 162.5 | 162.5 | 160.3 | 160.3 | 160.3 | 160.3 |
| 12.5° | 183.8 | 181.7 | 181.7 | 183.8 | 181.7 | 179.6 | 179.6 | 179.6 | 177.4 | 177.4 | 177.4 |
| 15° | 201.0 | 201.0 | 198.8 | 198.8 | 198.8 | 196.7 | 196.7 | 194.5 | 194.5 | 192.4 | 192.4 |
| 17.5° | 218.1 | 218.1 | 215.9 | 213.8 | 213.8 | 213.8 | 211.6 | 211.6 | 209.5 | 209.5 | 209.5 |
| 20° | 239.4 | 237.3 | 235.2 | 233.0 | 230.9 | 230.9 | 230.9 | 230.9 | 228.7 | 226.6 | 226.6 |
| 22.5° | 262.9 | 260.8 | 258.7 | 256.5 | 256.5 | 254.4 | 254.4 | 252.3 | 252.3 | 250.1 | 248.0 |
| 25° | 312.1 | 312.1 | 303.6 | 301.4 | 301.4 | 303.6 | 301.4 | 299.3 | 295.0 | 288.6 | 288.6 |
| 27.5° | 378.4 | 380.5 | 382.7 | 393.4 | 391.2 | 376.3 | 367.7 | 363.4 | 361.3 | 361.3 | 363.4 |
| 30° | 453.2 | 455.3 | 461.8 | 472.5 | 466.0 | 446.8 | 425.4 | 416.9 | 423.3 | 431.8 | 434.0 |
| 32.5° | 532.3 | 532.3 | 519.5 | 504.5 | 489.6 | 476.7 | 470.3 | 466.0 | 463.9 | 457.5 | 457.5 |
| 35° | 594.3 | 583.6 | 543.0 | 493.8 | 478.9 | 487.4 | 513.1 | 521.6 | 489.6 | 459.6 | 455.3 |
| 37.5° | 664.9 | 662.7 | 630.6 | 594.3 | 566.5 | 562.2 | 590.0 | 598.6 | 564.4 | 545.1 | 543.0 |
| 40° | 739.7 | 744.0 | 750.4 | 735.4 | 692.6 | 679.8 | 664.9 | 654.2 | 654.2 | 656.3 | 652.0 |
| 42.5° | 840.2 | 846.6 | 846.6 | 848.7 | 814.5 | 784.6 | 754.6 | 737.5 | 735.4 | 752.5 | 758.9 |
| 45° | 974.8 | 974.8 | 959.9 | 929.9 | 915.0 | 893.6 | 874.4 | 857.3 | 848.7 | 850.8 | 857.3 |
| 47.5° | 1034.7 | 1039.0 | 1026.1 | 983.4 | 972.7 | 951.3 | 923.5 | 917.1 | 921.4 | 927.8 | 929.9 |
| 50° | 1244.2 | 1233.5 | 1145.9 | 1056.1 | 1024.0 | 1045.4 | 1086.0 | 1096.7 | 1056.1 | 1015.5 | 1004.8 |
| 52.5° | 1611.9 | 1609.8 | 1541.3 | 1475.1 | 1430.2 | 1417.4 | 1472.9 | 1477.2 | 1406.7 | 1376.7 | 1372.5 |
| 55° | 2249.0 | 2225.4 | 2276.7 | 2308.8 | 2214.8 | 2110.0 | 2071.5 | 2018.1 | 2022.3 | 2082.2 | 2084.3 |
| 57.5° | 3153.2 | 3166.1 | 3223.8 | 3140.4 | 2997.2 | 2920.2 | 2866.8 | 2766.3 | 2768.4 | 2821.9 | 2826.2 |
| 60° | 4301.2 | 4299.1 | 4115.2 | 3794.6 | 3574.4 | 3589.3 | 3736.9 | 3758.2 | 3529.5 | 3382.0 | 3364.9 |
| 62.5° | 4807.9 | 4784.4 | 4632.6 | 4243.5 | 3871.5 | 3865.1 | 4132.3 | 4166.6 | 4008.4 | 3811.7 | 3773.2 |
| 65° | 4425.2 | 4406.0 | 4470.1 | 4337.6 | 3848.0 | 3721.9 | 3803.1 | 3794.6 | 3895.1 | 3984.8 | 3995.5 |
| 67.5° | 3939.9 | 3944.2 | 4098.1 | 4057.5 | 3717.6 | 3503.8 | 3401.2 | 3388.4 | 3576.5 | 3786.0 | 3813.8 |
| 70° | 3615.0 | 3615.0 | 3724.0 | 3559.4 | 3396.9 | 3258.0 | 3151.1 | 3084.8 | 3206.7 | 3240.9 | 3238.8 |
| 72.5° | 3448.3 | 3433.3 | 3356.3 | 3198.1 | 3074.1 | 2952.3 | 2984.4 | 2935.2 | 2877.5 | 2787.7 | 2779.1 |
| 75° | 3151.1 | 3134.0 | 3027.1 | 2952.3 | 2862.5 | 2710.7 | 2738.5 | 2689.3 | 2593.1 | 2511.9 | 2499.1 |
| 77.5° | 2603.8 | 2603.8 | 2535.4 | 2479.8 | 2454.2 | 2323.8 | 2311.0 | 2287.4 | 2191.2 | 2146.3 | 2129.2 |
| 80° | 1864.2 | 1859.9 | 1832.1 | 1812.8 | 1844.9 | 1768.0 | 1733.7 | 1733.7 | 1695.3 | 1654.6 | 1635.4 |
| 82.5° | 1109.5 | 1094.5 | 1094.5 | 1101.0 | 1081.7 | 1032.6 | 1041.1 | 1090.3 | 1086.0 | 1062.5 | 1045.4 |
| 85° | 656.3 | 647.8 | 641.3 | 632.8 | 615.7 | 581.5 | 581.5 | 585.8 | 590.0 | 592.2 | 583.6 |
| 87.5° | 438.2 | 436.1 | 436.1 | 436.1 | 416.9 | 393.4 | 404.0 | 410.5 | 406.2 | 404.0 | 401.9 |
| 90° | 382.7 | 384.8 | 382.7 | 374.1 | 357.0 | 335.6 | 339.9 | 348.5 | 344.2 | 344.2 | 342.0 |
| 92.5° | 344.2 | 344.2 | 339.9 | 331.4 | 314.3 | 295.0 | 297.2 | 301.4 | 299.3 | 297.2 | 295.0 |
| 95° | 282.2 | 282.2 | 277.9 | 271.5 | 256.5 | 239.4 | 241.6 | 245.8 | 241.6 | 241.6 | 239.4 |
| 97.5° | 220.2 | 220.2 | 218.1 | 213.8 | 201.0 | 188.1 | 190.3 | 192.4 | 190.3 | 190.3 | 188.1 |
| 100° | 166.7 | 166.7 | 164.6 | 158.2 | 151.8 | 141.1 | 143.2 | 147.5 | 145.4 | 145.4 | 143.2 |
| 102.5° | 124.0 | 124.0 | 121.9 | 119.7 | 111.2 | 104.8 | 106.9 | 106.9 | 106.9 | 104.8 | 104.8 |
| 105° | 96.2 | 96.2 | 96.2 | 91.9 | 87.6 | 81.2 | 81.2 | 81.2 | 81.2 | 79.1 | 79.1 |
| 107.5° | 77.0 | 74.8 | 74.8 | 72.7 | 68.4 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 |
| 110° | 62.0 | 59.9 | 57.7 | 57.7 | 53.4 | 51.3 | 49.2 | 51.3 | 51.3 | 51.3 | 51.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 53.4 | 51.3 | 47.0 | 47.0 | 44.9 | 40.6 | 40.6 | 40.6 | 44.9 | 42.8 | 42.8 |
| 115° | 47.0 | 44.9 | 38.5 | 38.5 | 36.3 | 34.2 | 34.2 | 34.2 | 38.5 | 34.2 | 34.2 |
| 117.5° | 40.6 | 38.5 | 32.1 | 32.1 | 29.9 | 27.8 | 27.8 | 27.8 | 32.1 | 27.8 | 27.8 |
| 120° | 29.9 | 29.9 | 25.7 | 25.7 | 25.7 | 23.5 | 23.5 | 23.5 | 25.7 | 23.5 | 23.5 |
| 122.5° | 23.5 | 23.5 | 21.4 | 21.4 | 21.4 | 19.2 | 19.2 | 19.2 | 19.2 | 17.1 | 17.1 |
| 125° | 23.5 | 27.8 | 17.1 | 17.1 | 15.0 | 15.0 | 15.0 | 12.8 | 15.0 | 12.8 | 12.8 |
| 127.5° | 25.7 | 23.5 | 12.8 | 12.8 | 12.8 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 |
| 130° | 8.6 | 12.8 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 6.4 | 6.4 | 6.4 |
| 132.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 135° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 137.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 172.5° | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 177.5° | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 180° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |

(END OF REPORT)