

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: P588428

Luminaire Tested: **ARC-CA6-130-730-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
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-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16489 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U5 - G5

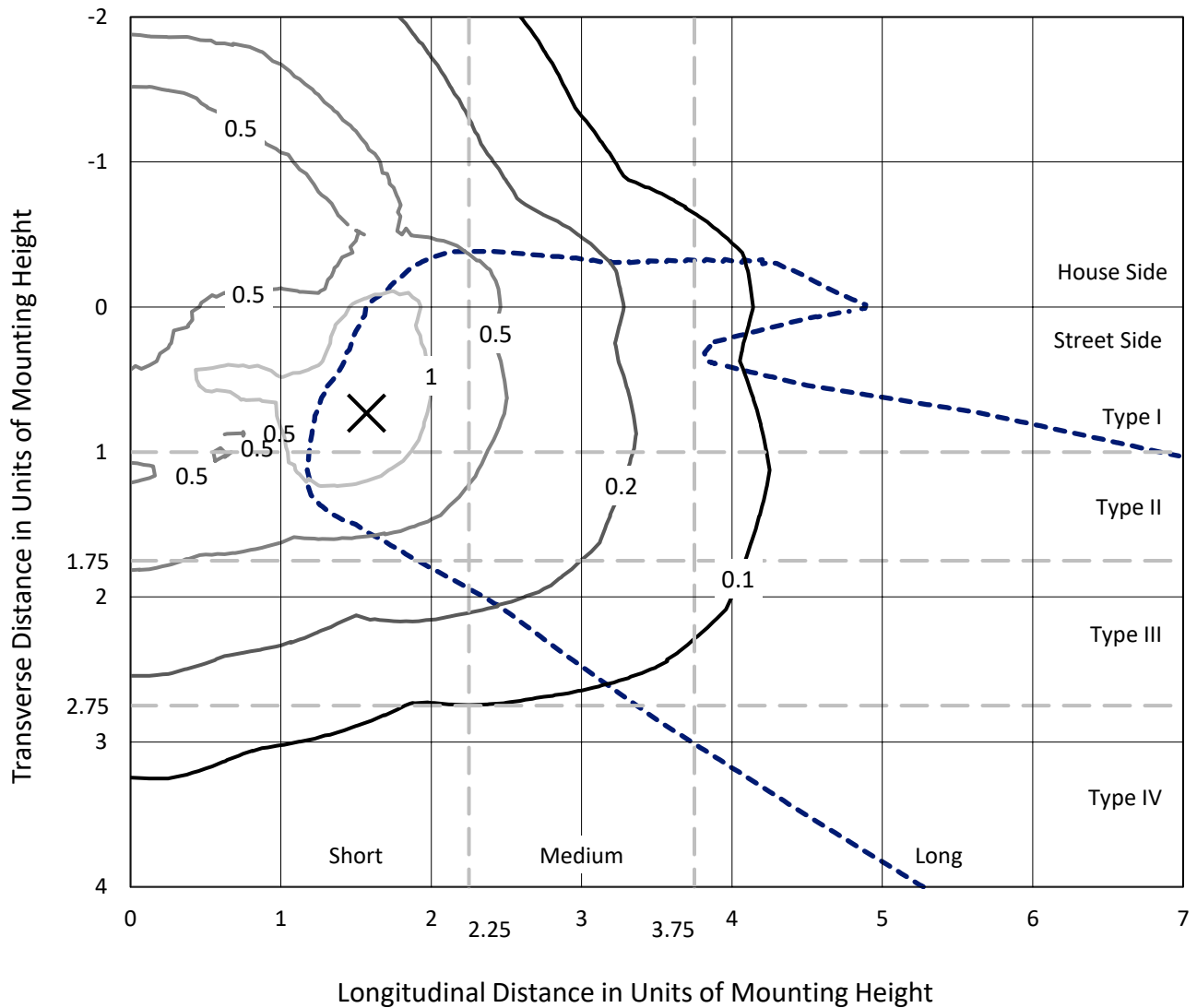
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588428
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Iso-Footcandle Lines of Horizontal Illumination

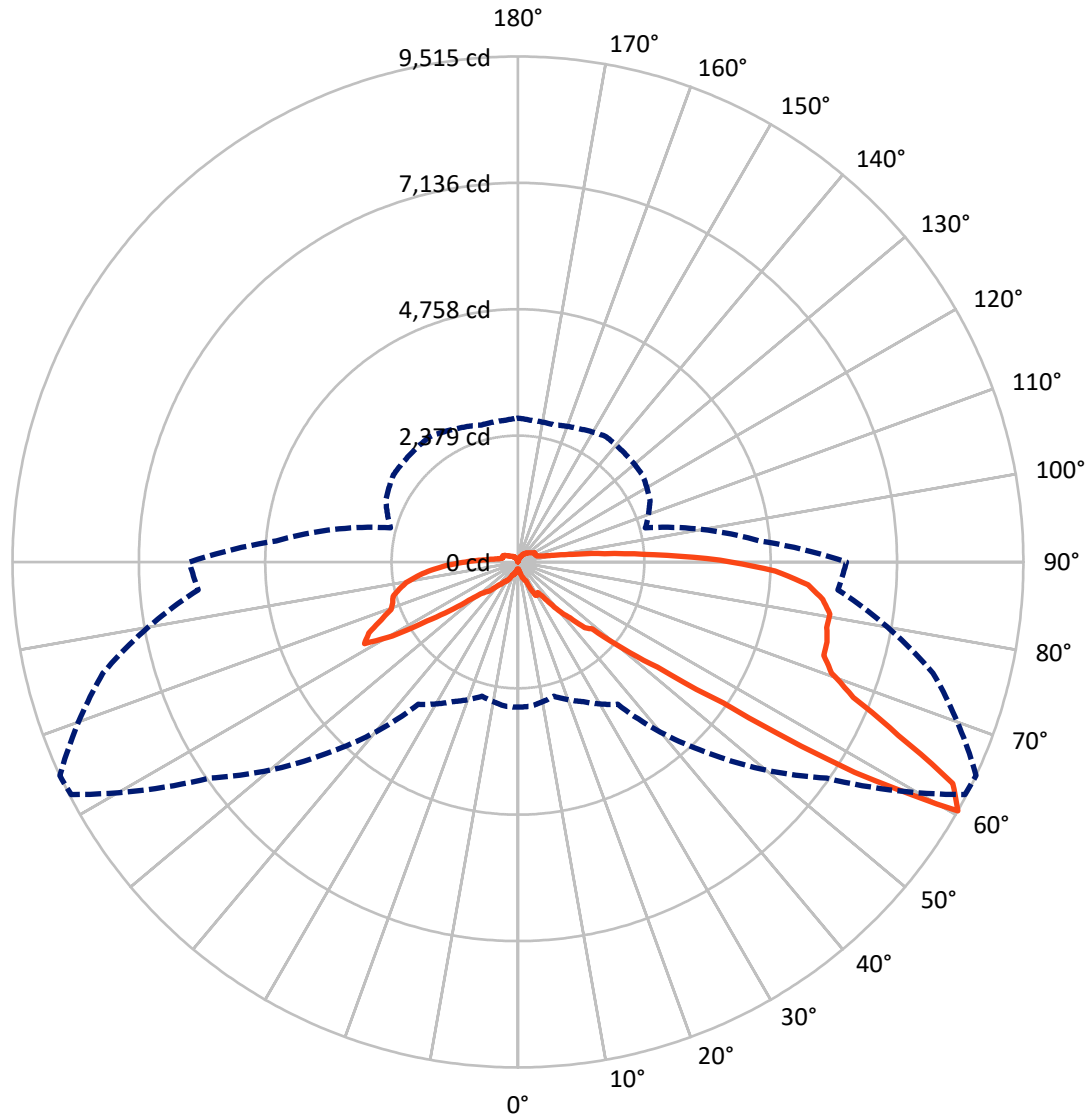
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588428
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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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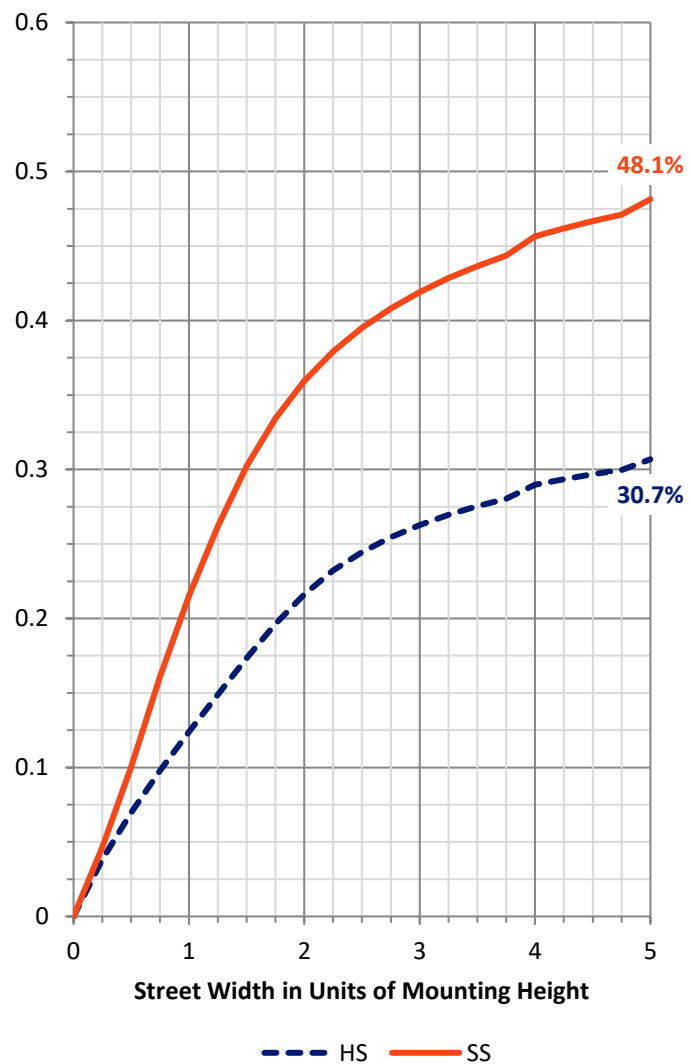
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5498.7 | 880.6 | 6379.3 |
| | % Fixture | 33.3 | 5.3 | 38.7 |
| Street Side | Lumens | 8797.2 | 1312.5 | 10109.7 |
| | % Fixture | 53.4 | 8.0 | 61.3 |
| Total | Lumens | 14295.9 | 2193.1 | 16489.0 |
| | % Fixture | 86.7 | 13.3 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 15.8 | 0.1 |
| 10°-20° | 70.4 | 0.4 |
| 20°-30° | 201.4 | 1.2 |
| 30°-40° | 433.7 | 2.6 |
| 40°-50° | 820.7 | 5.0 |
| 50°-60° | 2292.5 | 13.9 |
| 60°-70° | 4087.1 | 24.8 |
| 70°-80° | 3578.3 | 21.7 |
| 80°-90° | 2795.9 | 17.0 |
| 90°-100° | 1057.0 | 6.4 |
| 100°-110° | 363.6 | 2.2 |
| 110°-120° | 297.3 | 1.8 |
| 120°-130° | 199.7 | 1.2 |
| 130°-140° | 137.1 | 0.8 |
| 140°-150° | 86.2 | 0.5 |
| 150°-160° | 40.0 | 0.2 |
| 160°-170° | 11.3 | 0.1 |
| 170°-180° | 1.0 | 0.0 |
| 0°-90° | 14295.9 | 86.7 |
| 0°-180° | 16489.0 | 100.0 |

Coefficient of Utilization



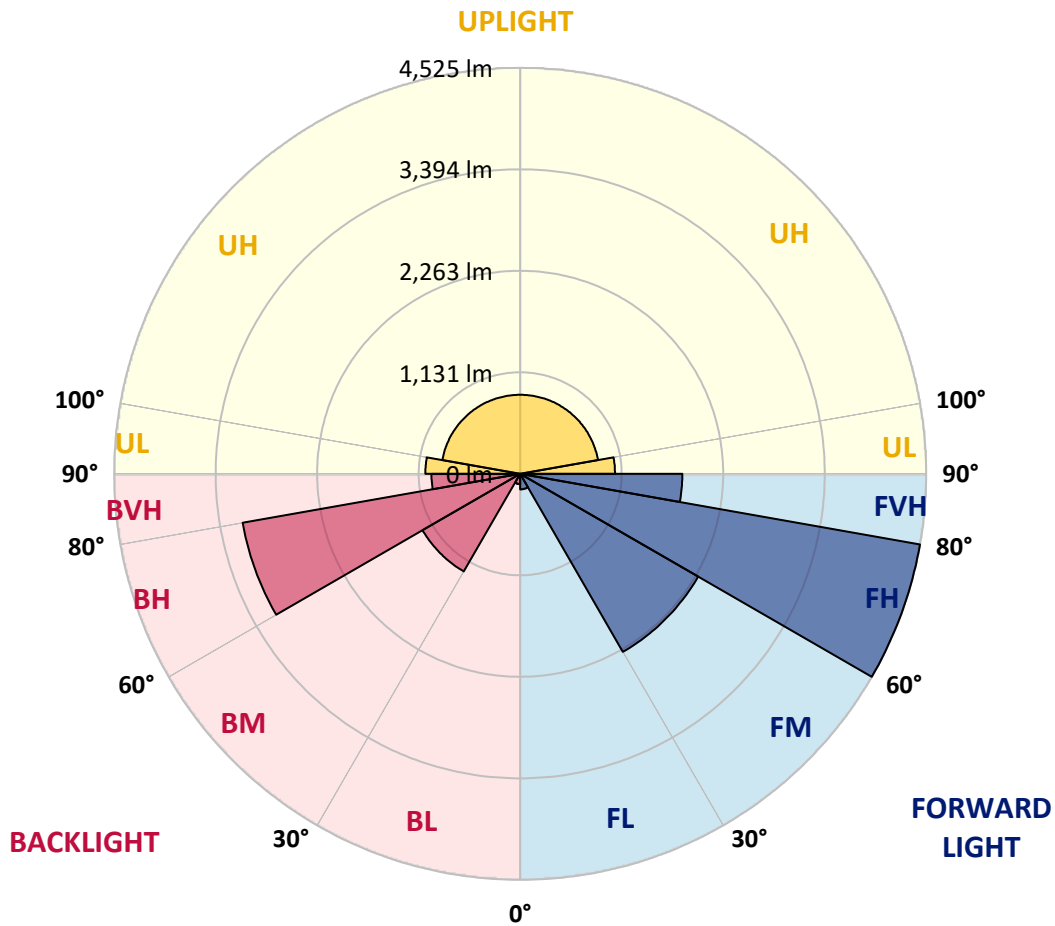
REPORT NUMBER: P588428
 CATALOG NUMBER: ARC-CA6-130-730-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 173.7 | 1.1 | | | |
| FM (30°-60°) | 2291.0 | 13.9 | | | |
| FH (60°-80°) | 4525.3 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 1807.2 | 11.0 | | | G5 |
| BL (0°-30°) | 113.9 | 0.7 | B1/500 | | |
| BM (30°-60°) | 1255.9 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 3140.2 | 19.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 988.7 | 6.0 | | | G5 |
| UL (90°-100°) | 1057.0 | 6.4 | | U5 | |
| UH (100°-180°) | 880.6 | 5.3 | | U4/1000 | |

BUG Rating: B4-U5-G5

Type III Short





REPORT NUMBER: P588428
 CATALOG NUMBER: ARC-CA6-130-730-U-33-X-5-X

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 |
| 2.5° | 145.4 | 141.1 | 136.8 | 136.8 | 134.7 | 132.5 | 132.5 | 128.3 | 130.4 | 128.3 | 128.3 |
| 5° | 171.0 | 168.9 | 164.6 | 166.7 | 162.5 | 160.3 | 160.3 | 158.2 | 156.1 | 153.9 | 147.5 |
| 7.5° | 198.8 | 198.8 | 201.0 | 203.1 | 196.7 | 190.3 | 188.1 | 183.8 | 183.8 | 181.7 | 177.4 |
| 10° | 228.7 | 226.6 | 218.1 | 218.1 | 213.8 | 209.5 | 211.6 | 209.5 | 209.5 | 209.5 | 201.0 |
| 12.5° | 237.3 | 235.2 | 228.7 | 228.7 | 228.7 | 226.6 | 235.2 | 233.0 | 235.2 | 233.0 | 220.2 |
| 15° | 267.2 | 265.1 | 262.9 | 265.1 | 273.6 | 290.7 | 312.1 | 303.6 | 305.7 | 301.4 | 254.4 |
| 17.5° | 280.0 | 286.5 | 290.7 | 292.9 | 301.4 | 301.4 | 305.7 | 303.6 | 312.1 | 318.5 | 290.7 |
| 20° | 324.9 | 320.7 | 324.9 | 339.9 | 361.3 | 363.4 | 357.0 | 357.0 | 361.3 | 363.4 | 310.0 |
| 22.5° | 344.2 | 342.0 | 359.1 | 346.3 | 346.3 | 357.0 | 395.5 | 382.7 | 382.7 | 378.4 | 333.5 |
| 25° | 446.8 | 455.3 | 472.4 | 493.8 | 545.1 | 560.1 | 602.9 | 555.8 | 562.2 | 496.0 | 423.3 |
| 27.5° | 536.6 | 543.0 | 643.5 | 733.3 | 773.9 | 752.5 | 788.8 | 701.2 | 709.7 | 718.3 | 617.8 |
| 30° | 564.4 | 577.2 | 722.6 | 788.8 | 842.3 | 799.5 | 846.6 | 731.1 | 724.7 | 773.9 | 733.3 |
| 32.5° | 543.0 | 555.8 | 709.7 | 737.5 | 793.1 | 951.3 | 891.5 | 705.5 | 686.2 | 709.7 | 758.9 |
| 35° | 596.4 | 605.0 | 696.9 | 630.6 | 681.9 | 1329.7 | 1167.2 | 823.0 | 784.6 | 654.2 | 726.8 |
| 37.5° | 716.2 | 716.2 | 825.2 | 872.2 | 910.7 | 1569.1 | 1532.8 | 1024.0 | 994.1 | 765.3 | 840.1 |
| 40° | 867.9 | 863.7 | 998.3 | 1030.4 | 1047.5 | 1421.6 | 1853.4 | 1306.2 | 1239.9 | 900.0 | 1094.5 |
| 42.5° | 959.9 | 951.3 | 1060.3 | 1094.5 | 1094.5 | 1203.6 | 2097.2 | 1590.5 | 1436.6 | 1049.6 | 1338.2 |
| 45° | 996.2 | 1004.8 | 1145.8 | 1103.1 | 1135.2 | 1235.6 | 2358.0 | 1983.9 | 1767.9 | 1231.4 | 1552.0 |
| 47.5° | 902.1 | 915.0 | 1118.1 | 1122.3 | 959.9 | 987.7 | 2114.3 | 2060.8 | 1883.4 | 1319.0 | 1620.4 |
| 50° | 1107.4 | 1115.9 | 1188.6 | 1139.4 | 1060.3 | 1250.6 | 2518.3 | 2648.7 | 2571.7 | 1633.3 | 1710.2 |
| 52.5° | 1520.0 | 1558.4 | 1626.8 | 1669.6 | 1646.1 | 2101.4 | 3377.7 | 3354.2 | 3290.0 | 2452.0 | 2334.4 |
| 55° | 1968.9 | 2001.0 | 2097.2 | 2355.8 | 2552.5 | 3146.8 | 4200.7 | 4692.4 | 4688.1 | 3982.7 | 3638.5 |
| 57.5° | 2377.2 | 2379.3 | 2392.2 | 2710.7 | 3014.3 | 4108.8 | 5502.6 | 7309.0 | 7471.5 | 6362.0 | 5209.8 |
| 60° | 2732.1 | 2725.7 | 2616.6 | 2901.0 | 3270.8 | 5094.3 | 7093.1 | 9483.2 | 9515.2 | 8089.3 | 6043.5 |
| 62.5° | 2828.3 | 2809.0 | 2650.8 | 2915.9 | 3232.3 | 5113.6 | 7499.3 | 9224.5 | 9188.2 | 8211.2 | 6152.5 |
| 65° | 2744.9 | 2725.7 | 2524.7 | 2762.0 | 2911.6 | 4647.5 | 6926.4 | 7933.3 | 7873.4 | 7501.4 | 5857.5 |
| 67.5° | 2620.9 | 2633.7 | 2434.9 | 2616.6 | 2719.2 | 4358.9 | 6323.5 | 6825.9 | 6808.8 | 6990.5 | 5611.7 |
| 70° | 2441.3 | 2452.0 | 2270.3 | 2494.8 | 2644.4 | 4175.1 | 5746.3 | 6291.5 | 6261.5 | 6528.8 | 5250.4 |
| 72.5° | 2447.8 | 2479.8 | 2263.9 | 2432.8 | 2588.8 | 3922.8 | 5485.5 | 6107.6 | 6020.0 | 6060.6 | 4816.4 |
| 75° | 2464.9 | 2507.6 | 2278.9 | 2430.6 | 2576.0 | 3830.9 | 5455.6 | 6122.6 | 6011.4 | 5891.7 | 4651.8 |
| 77.5° | 2471.3 | 2533.3 | 2287.4 | 2454.2 | 2580.3 | 3704.8 | 5387.2 | 6047.8 | 5943.0 | 5729.2 | 4457.3 |
| 80° | 2420.0 | 2486.2 | 2251.1 | 2456.3 | 2552.5 | 3454.6 | 5214.0 | 6034.9 | 5955.8 | 5707.9 | 4378.2 |
| 82.5° | 2317.3 | 2383.6 | 2180.5 | 2349.4 | 2499.1 | 3200.2 | 4970.3 | 5784.8 | 5780.5 | 5502.6 | 4211.4 |
| 85° | 2092.9 | 2165.6 | 2011.6 | 2167.7 | 2351.6 | 2862.5 | 4478.6 | 5359.4 | 5477.0 | 5252.5 | 3986.9 |
| 87.5° | 1877.0 | 1949.6 | 1868.4 | 1956.1 | 2142.0 | 2488.4 | 3848.0 | 4626.1 | 4846.3 | 4660.3 | 3424.7 |
| 90° | 1631.1 | 1705.9 | 1639.7 | 1605.5 | 1755.1 | 1986.0 | 3076.3 | 3597.9 | 3805.2 | 3691.9 | 2520.4 |
| 92.5° | 1306.2 | 1370.3 | 1308.3 | 1229.2 | 1319.0 | 1458.0 | 2285.3 | 2518.3 | 2567.5 | 2458.4 | 1652.5 |
| 95° | 987.7 | 1034.7 | 979.1 | 900.0 | 910.7 | 998.3 | 1575.5 | 1650.4 | 1637.5 | 1507.1 | 1049.6 |
| 97.5° | 686.2 | 714.0 | 677.7 | 622.1 | 641.3 | 696.9 | 1043.2 | 1034.7 | 1034.7 | 921.4 | 686.2 |
| 100° | 476.7 | 487.4 | 470.3 | 444.7 | 459.6 | 496.0 | 701.2 | 699.1 | 677.7 | 622.1 | 500.2 |
| 102.5° | 378.4 | 380.5 | 363.4 | 346.3 | 337.8 | 372.0 | 506.7 | 504.5 | 508.8 | 483.1 | 391.2 |
| 105° | 333.5 | 331.4 | 316.4 | 301.4 | 284.3 | 318.5 | 401.9 | 419.0 | 416.9 | 395.5 | 335.6 |
| 107.5° | 305.7 | 303.6 | 288.6 | 275.8 | 260.8 | 290.7 | 348.5 | 372.0 | 369.8 | 367.7 | 316.4 |
| 110° | 284.3 | 282.2 | 269.4 | 256.5 | 243.7 | 277.9 | 327.1 | 363.4 | 363.4 | 363.4 | 320.7 |



REPORT NUMBER: P588428

CATALOG NUMBER: ARC-CA6-130-730-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 269.4 | 269.4 | 258.7 | 248.0 | 237.3 | 275.8 | 314.3 | 357.0 | 357.0 | 367.7 | 335.6 |
| 115° | 260.8 | 258.7 | 250.1 | 243.7 | 235.2 | 277.9 | 310.0 | 352.7 | 354.9 | 369.8 | 333.5 |
| 117.5° | 254.4 | 252.3 | 245.8 | 237.3 | 233.0 | 273.6 | 312.1 | 361.3 | 359.1 | 382.7 | 327.1 |
| 120° | 243.7 | 239.4 | 230.9 | 222.3 | 218.1 | 252.3 | 303.6 | 350.6 | 346.3 | 357.0 | 301.4 |
| 122.5° | 235.2 | 222.3 | 207.4 | 201.0 | 201.0 | 228.7 | 284.3 | 316.4 | 312.1 | 303.6 | 271.5 |
| 125° | 215.9 | 203.1 | 190.3 | 188.1 | 190.3 | 213.8 | 271.5 | 290.7 | 292.9 | 286.5 | 256.5 |
| 127.5° | 194.5 | 186.0 | 179.6 | 179.6 | 183.8 | 209.5 | 267.2 | 280.0 | 280.0 | 267.2 | 243.7 |
| 130° | 183.8 | 181.7 | 177.4 | 177.4 | 186.0 | 211.6 | 260.8 | 265.1 | 265.1 | 248.0 | 237.3 |
| 132.5° | 179.6 | 175.3 | 171.0 | 171.0 | 179.6 | 205.2 | 243.7 | 252.3 | 250.1 | 233.0 | 224.5 |
| 135° | 171.0 | 168.9 | 164.6 | 164.6 | 175.3 | 201.0 | 228.7 | 237.3 | 235.2 | 213.8 | 207.4 |
| 137.5° | 166.7 | 162.5 | 162.5 | 162.5 | 173.2 | 198.8 | 215.9 | 222.3 | 220.2 | 198.8 | 192.4 |
| 140° | 160.3 | 158.2 | 153.9 | 153.9 | 168.9 | 192.4 | 203.1 | 205.2 | 203.1 | 186.0 | 179.6 |
| 142.5° | 149.6 | 147.5 | 145.4 | 149.6 | 164.6 | 181.7 | 190.3 | 190.3 | 188.1 | 177.4 | 168.9 |
| 145° | 143.2 | 141.1 | 139.0 | 149.6 | 162.5 | 171.0 | 179.6 | 173.2 | 173.2 | 166.7 | 158.2 |
| 147.5° | 136.8 | 134.7 | 134.7 | 143.2 | 153.9 | 153.9 | 160.3 | 158.2 | 160.3 | 158.2 | 149.6 |
| 150° | 124.0 | 121.9 | 121.9 | 128.3 | 130.4 | 130.4 | 136.8 | 136.8 | 136.8 | 136.8 | 130.4 |
| 152.5° | 109.0 | 106.9 | 109.0 | 111.2 | 111.2 | 111.2 | 115.4 | 117.6 | 117.6 | 115.4 | 113.3 |
| 155° | 94.1 | 94.1 | 94.1 | 96.2 | 96.2 | 94.1 | 100.5 | 100.5 | 100.5 | 100.5 | 98.3 |
| 157.5° | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 81.2 | 85.5 | 85.5 | 87.6 | 85.5 | 85.5 |
| 160° | 72.7 | 70.5 | 70.5 | 70.5 | 70.5 | 68.4 | 70.5 | 70.5 | 70.5 | 72.7 | 72.7 |
| 162.5° | 57.7 | 55.6 | 55.6 | 55.6 | 55.6 | 51.3 | 55.6 | 53.4 | 55.6 | 55.6 | 57.7 |
| 165° | 47.0 | 44.9 | 44.9 | 44.9 | 42.8 | 40.6 | 42.8 | 40.6 | 40.6 | 40.6 | 42.8 |
| 167.5° | 36.3 | 36.3 | 34.2 | 36.3 | 34.2 | 29.9 | 29.9 | 27.8 | 27.8 | 27.8 | 27.8 |
| 170° | 27.8 | 25.7 | 23.5 | 25.7 | 23.5 | 19.2 | 19.2 | 17.1 | 17.1 | 15.0 | 15.0 |
| 172.5° | 19.2 | 17.1 | 15.0 | 17.1 | 15.0 | 10.7 | 10.7 | 6.4 | 6.4 | 6.4 | 6.4 |
| 175° | 17.1 | 15.0 | 12.8 | 15.0 | 12.8 | 8.6 | 6.4 | 4.3 | 4.3 | 4.3 | 4.3 |
| 177.5° | 17.1 | 15.0 | 12.8 | 15.0 | 12.8 | 8.6 | 6.4 | 4.3 | 4.3 | 4.3 | 4.3 |
| 180° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |



REPORT NUMBER: P588428
 CATALOG NUMBER: ARC-CA6-130-730-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 |
| 2.5° | 128.3 | 126.1 | 124.0 | 128.3 | 126.1 | 128.3 | 130.4 | 132.5 | 132.5 | 130.4 | 130.4 |
| 5° | 147.5 | 145.4 | 141.1 | 139.0 | 134.7 | 134.7 | 134.7 | 139.0 | 139.0 | 136.8 | 139.0 |
| 7.5° | 175.3 | 171.0 | 164.6 | 160.3 | 153.9 | 153.9 | 151.8 | 156.1 | 158.2 | 153.9 | 156.1 |
| 10° | 196.7 | 194.5 | 186.0 | 179.6 | 173.2 | 171.0 | 171.0 | 173.2 | 173.2 | 171.0 | 171.0 |
| 12.5° | 215.9 | 211.6 | 203.1 | 196.7 | 188.1 | 186.0 | 186.0 | 188.1 | 188.1 | 186.0 | 186.0 |
| 15° | 243.7 | 230.9 | 222.3 | 215.9 | 207.4 | 205.2 | 203.1 | 205.2 | 207.4 | 203.1 | 203.1 |
| 17.5° | 282.2 | 267.2 | 248.0 | 230.9 | 222.3 | 226.6 | 228.7 | 230.9 | 228.7 | 222.3 | 222.3 |
| 20° | 303.6 | 295.0 | 269.4 | 256.5 | 245.8 | 245.8 | 245.8 | 245.8 | 245.8 | 243.7 | 245.8 |
| 22.5° | 318.5 | 305.7 | 273.6 | 265.1 | 258.7 | 262.9 | 267.2 | 269.4 | 269.4 | 267.2 | 267.2 |
| 25° | 386.9 | 339.9 | 307.8 | 301.4 | 292.9 | 295.0 | 290.7 | 290.7 | 292.9 | 290.7 | 295.0 |
| 27.5° | 532.3 | 455.3 | 382.7 | 357.0 | 350.6 | 350.6 | 354.9 | 354.9 | 354.9 | 354.9 | 352.7 |
| 30° | 639.2 | 549.4 | 429.7 | 395.5 | 391.2 | 410.5 | 421.1 | 429.7 | 425.4 | 419.0 | 419.0 |
| 32.5° | 656.3 | 558.0 | 438.2 | 425.4 | 436.1 | 451.1 | 461.8 | 468.2 | 474.6 | 472.4 | 470.3 |
| 35° | 620.0 | 515.2 | 431.8 | 448.9 | 457.5 | 466.0 | 468.2 | 463.9 | 483.1 | 491.7 | 493.8 |
| 37.5° | 692.6 | 577.2 | 502.4 | 515.2 | 504.5 | 496.0 | 500.2 | 502.4 | 528.0 | 540.9 | 553.7 |
| 40° | 885.0 | 696.9 | 570.8 | 564.4 | 558.0 | 577.2 | 602.9 | 615.7 | 613.5 | 605.0 | 607.1 |
| 42.5° | 1071.0 | 814.5 | 643.5 | 641.3 | 639.2 | 673.4 | 714.0 | 711.9 | 692.6 | 677.7 | 677.7 |
| 45° | 1261.3 | 927.8 | 758.9 | 761.0 | 756.8 | 769.6 | 780.3 | 771.7 | 773.9 | 778.1 | 782.4 |
| 47.5° | 1378.9 | 1030.4 | 831.6 | 825.2 | 797.4 | 823.0 | 853.0 | 833.7 | 827.3 | 816.6 | 820.9 |
| 50° | 1406.7 | 1056.1 | 874.3 | 921.4 | 895.7 | 876.5 | 844.4 | 831.6 | 855.1 | 872.2 | 885.0 |
| 52.5° | 1827.8 | 1304.0 | 1092.4 | 1167.2 | 1133.0 | 1064.6 | 1058.2 | 1036.8 | 1062.5 | 1064.6 | 1079.6 |
| 55° | 3063.4 | 2090.7 | 1505.0 | 1577.7 | 1579.8 | 1556.3 | 1663.2 | 1603.3 | 1549.9 | 1526.4 | 1517.8 |
| 57.5° | 4829.2 | 3232.3 | 1947.5 | 2039.4 | 2127.1 | 2210.5 | 2355.8 | 2234.0 | 2080.1 | 2060.8 | 2082.2 |
| 60° | 6184.6 | 4564.1 | 2484.1 | 2742.8 | 2860.3 | 2864.6 | 2883.9 | 2764.1 | 2670.1 | 2678.6 | 2708.6 |
| 62.5° | 6475.3 | 5675.8 | 3163.9 | 3270.8 | 3281.5 | 3202.4 | 3236.6 | 3313.5 | 3181.0 | 3076.3 | 3104.0 |
| 65° | 6280.8 | 6116.2 | 3386.2 | 3108.3 | 3091.2 | 3104.0 | 3337.1 | 3550.8 | 3283.6 | 3018.5 | 3018.5 |
| 67.5° | 5904.5 | 5780.5 | 3159.6 | 2796.2 | 2843.2 | 2988.6 | 3283.6 | 3390.5 | 3106.2 | 2824.0 | 2824.0 |
| 70° | 5502.6 | 5254.6 | 2905.2 | 2548.2 | 2663.7 | 2832.6 | 3024.9 | 3033.5 | 2866.8 | 2665.8 | 2653.0 |
| 72.5° | 5068.7 | 4844.2 | 2796.2 | 2475.5 | 2529.0 | 2558.9 | 2663.7 | 2729.9 | 2710.7 | 2580.3 | 2578.2 |
| 75° | 4940.4 | 4758.7 | 2794.1 | 2441.3 | 2409.3 | 2398.6 | 2471.3 | 2614.5 | 2680.8 | 2603.8 | 2608.1 |
| 77.5° | 4745.9 | 4636.8 | 2663.7 | 2298.1 | 2263.9 | 2263.9 | 2302.4 | 2417.8 | 2518.3 | 2486.2 | 2496.9 |
| 80° | 4611.2 | 4446.6 | 2464.9 | 2142.0 | 2095.0 | 2101.4 | 2105.7 | 2184.8 | 2278.9 | 2283.1 | 2283.1 |
| 82.5° | 4352.5 | 4042.5 | 2163.4 | 1909.0 | 1877.0 | 1885.5 | 1870.6 | 1915.4 | 1941.1 | 1973.2 | 1966.8 |
| 85° | 3927.1 | 3488.8 | 1827.8 | 1654.6 | 1603.3 | 1586.2 | 1573.4 | 1575.5 | 1590.5 | 1584.1 | 1558.4 |
| 87.5° | 3290.0 | 2766.3 | 1458.0 | 1357.5 | 1297.6 | 1254.9 | 1237.8 | 1216.4 | 1214.3 | 1190.7 | 1199.3 |
| 90° | 2428.5 | 1898.3 | 1081.7 | 1045.4 | 1002.6 | 957.7 | 934.2 | 912.8 | 895.7 | 872.2 | 863.7 |
| 92.5° | 1584.1 | 1222.8 | 791.0 | 771.7 | 743.9 | 718.3 | 707.6 | 696.9 | 692.6 | 673.4 | 679.8 |
| 95° | 989.8 | 827.3 | 594.3 | 572.9 | 558.0 | 551.5 | 553.7 | 555.8 | 551.5 | 530.2 | 536.6 |
| 97.5° | 660.6 | 598.6 | 463.9 | 448.9 | 434.0 | 431.8 | 434.0 | 438.2 | 440.4 | 425.4 | 429.7 |
| 100° | 487.4 | 459.6 | 380.5 | 369.8 | 357.0 | 352.7 | 354.9 | 359.1 | 361.3 | 348.5 | 350.6 |
| 102.5° | 386.9 | 374.1 | 329.2 | 324.9 | 310.0 | 305.7 | 310.0 | 312.1 | 314.3 | 305.7 | 305.7 |
| 105° | 339.9 | 339.9 | 303.6 | 301.4 | 290.7 | 286.5 | 288.6 | 290.7 | 292.9 | 284.3 | 284.3 |
| 107.5° | 327.1 | 329.2 | 292.9 | 295.0 | 288.6 | 286.5 | 290.7 | 295.0 | 292.9 | 286.5 | 284.3 |
| 110° | 337.8 | 342.0 | 292.9 | 299.3 | 301.4 | 305.7 | 314.3 | 316.4 | 316.4 | 312.1 | 314.3 |



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| 112.5° | 348.5 | 354.9 | 288.6 | 303.6 | 318.5 | 329.2 | 344.2 | 352.7 | 348.5 | 346.3 | 348.5 |
| 115° | 339.9 | 344.2 | 269.4 | 292.9 | 320.7 | 335.6 | 339.9 | 339.9 | 329.2 | 329.2 | 331.4 |
| 117.5° | 329.2 | 337.8 | 250.1 | 269.4 | 288.6 | 301.4 | 299.3 | 292.9 | 280.0 | 275.8 | 288.6 |
| 120° | 305.7 | 331.4 | 239.4 | 243.7 | 245.8 | 250.1 | 243.7 | 237.3 | 226.6 | 224.5 | 233.0 |
| 122.5° | 282.2 | 305.7 | 220.2 | 215.9 | 213.8 | 213.8 | 211.6 | 209.5 | 203.1 | 205.2 | 213.8 |
| 125° | 262.9 | 275.8 | 201.0 | 194.5 | 192.4 | 194.5 | 194.5 | 194.5 | 190.3 | 186.0 | 186.0 |
| 127.5° | 248.0 | 252.3 | 190.3 | 181.7 | 179.6 | 179.6 | 179.6 | 181.7 | 179.6 | 173.2 | 173.2 |
| 130° | 239.4 | 237.3 | 183.8 | 168.9 | 166.7 | 168.9 | 168.9 | 171.0 | 166.7 | 162.5 | 162.5 |
| 132.5° | 222.3 | 218.1 | 175.3 | 160.3 | 158.2 | 160.3 | 160.3 | 160.3 | 156.1 | 151.8 | 151.8 |
| 135° | 203.1 | 198.8 | 164.6 | 149.6 | 147.5 | 149.6 | 149.6 | 151.8 | 147.5 | 143.2 | 143.2 |
| 137.5° | 188.1 | 183.8 | 153.9 | 141.1 | 139.0 | 139.0 | 141.1 | 141.1 | 139.0 | 134.7 | 134.7 |
| 140° | 175.3 | 171.0 | 143.2 | 132.5 | 128.3 | 130.4 | 130.4 | 130.4 | 128.3 | 124.0 | 124.0 |
| 142.5° | 164.6 | 162.5 | 132.5 | 121.9 | 117.6 | 119.7 | 119.7 | 121.9 | 117.6 | 113.3 | 113.3 |
| 145° | 156.1 | 151.8 | 124.0 | 111.2 | 109.0 | 109.0 | 109.0 | 111.2 | 106.9 | 102.6 | 102.6 |
| 147.5° | 147.5 | 143.2 | 113.3 | 100.5 | 98.3 | 98.3 | 98.3 | 98.3 | 96.2 | 91.9 | 89.8 |
| 150° | 130.4 | 128.3 | 104.8 | 91.9 | 87.6 | 87.6 | 87.6 | 85.5 | 81.2 | 77.0 | 77.0 |
| 152.5° | 111.2 | 109.0 | 91.9 | 81.2 | 77.0 | 77.0 | 74.8 | 74.8 | 70.5 | 68.4 | 66.3 |
| 155° | 96.2 | 96.2 | 83.4 | 72.7 | 68.4 | 66.3 | 64.1 | 64.1 | 62.0 | 59.9 | 57.7 |
| 157.5° | 85.5 | 83.4 | 74.8 | 66.3 | 57.7 | 57.7 | 55.6 | 55.6 | 53.4 | 51.3 | 49.2 |
| 160° | 72.7 | 72.7 | 64.1 | 55.6 | 49.2 | 47.0 | 47.0 | 44.9 | 42.8 | 40.6 | 40.6 |
| 162.5° | 57.7 | 57.7 | 51.3 | 44.9 | 38.5 | 38.5 | 36.3 | 36.3 | 34.2 | 32.1 | 29.9 |
| 165° | 40.6 | 40.6 | 38.5 | 34.2 | 29.9 | 27.8 | 27.8 | 27.8 | 25.7 | 23.5 | 23.5 |
| 167.5° | 27.8 | 27.8 | 25.7 | 23.5 | 21.4 | 19.2 | 21.4 | 21.4 | 19.2 | 17.1 | 17.1 |
| 170° | 15.0 | 15.0 | 12.8 | 12.8 | 10.7 | 10.7 | 12.8 | 15.0 | 12.8 | 10.7 | 8.6 |
| 172.5° | 6.4 | 6.4 | 6.4 | 6.4 | 4.3 | 6.4 | 8.6 | 10.7 | 8.6 | 6.4 | 6.4 |
| 175° | 4.3 | 4.3 | 6.4 | 6.4 | 4.3 | 6.4 | 8.6 | 10.7 | 8.6 | 6.4 | 6.4 |
| 177.5° | 4.3 | 4.3 | 6.4 | 6.4 | 4.3 | 6.4 | 8.6 | 10.7 | 8.6 | 6.4 | 6.4 |
| 180° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |

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