

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: P573086

Luminaire Tested: **ARCH-S-PA2-30-750-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-750-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

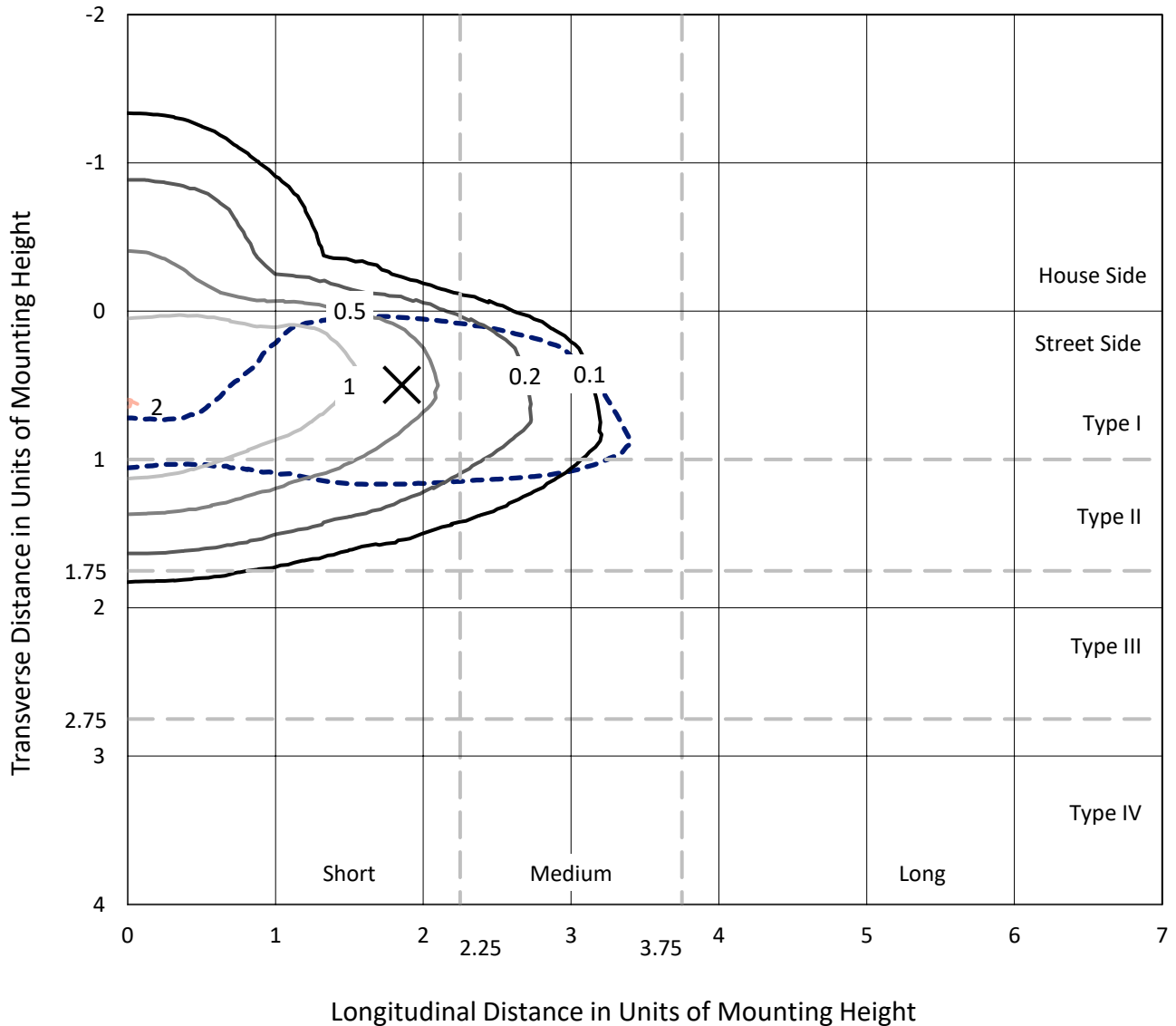
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

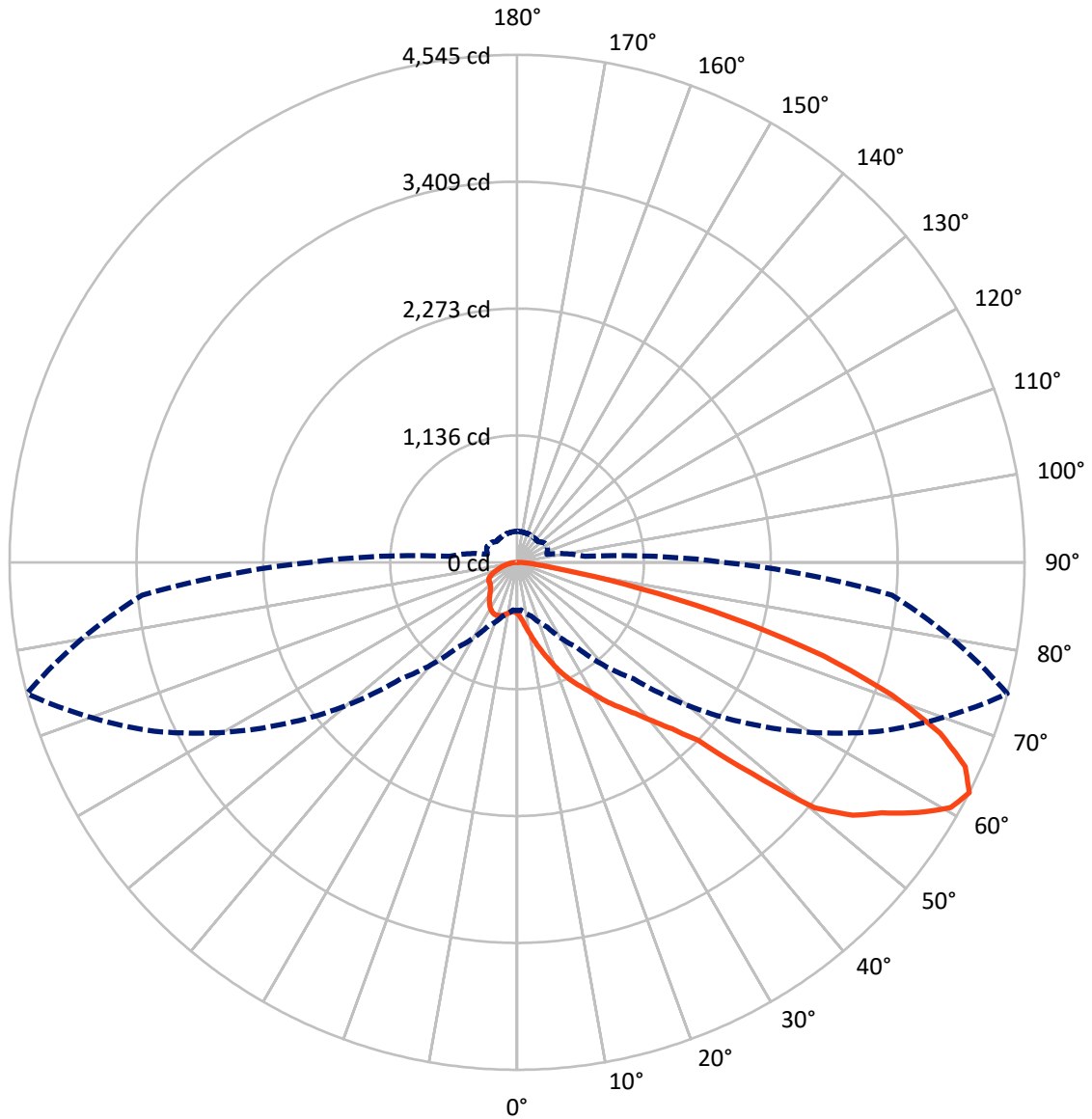
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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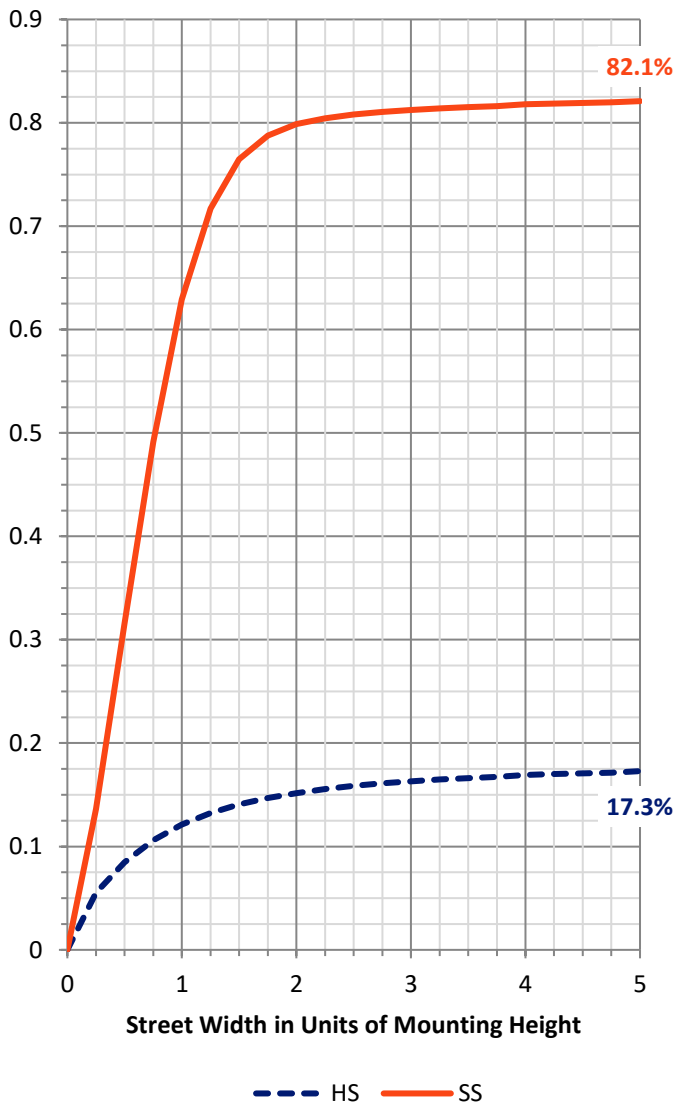
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 928.6 | 0.0 | 928.6 |
| | % Fixture | 17.6 | 0.0 | 17.6 |
| Street Side | Lumens | 4336.4 | 0.0 | 4336.4 |
| | % Fixture | 82.4 | 0.0 | 82.4 |
| Total | Lumens | 5265.0 | 0.0 | 5265.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.1 | 1.0 |
| 10°-20° | 217.9 | 4.1 |
| 20°-30° | 431.0 | 8.2 |
| 30°-40° | 718.4 | 13.6 |
| 40°-50° | 1060.2 | 20.1 |
| 50°-60° | 1274.4 | 24.2 |
| 60°-70° | 990.5 | 18.8 |
| 70°-80° | 438.2 | 8.3 |
| 80°-90° | 79.3 | 1.5 |
| 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° | 5265.0 | 100.0 |
| 0°-180° | 5265.0 | 100.0 |

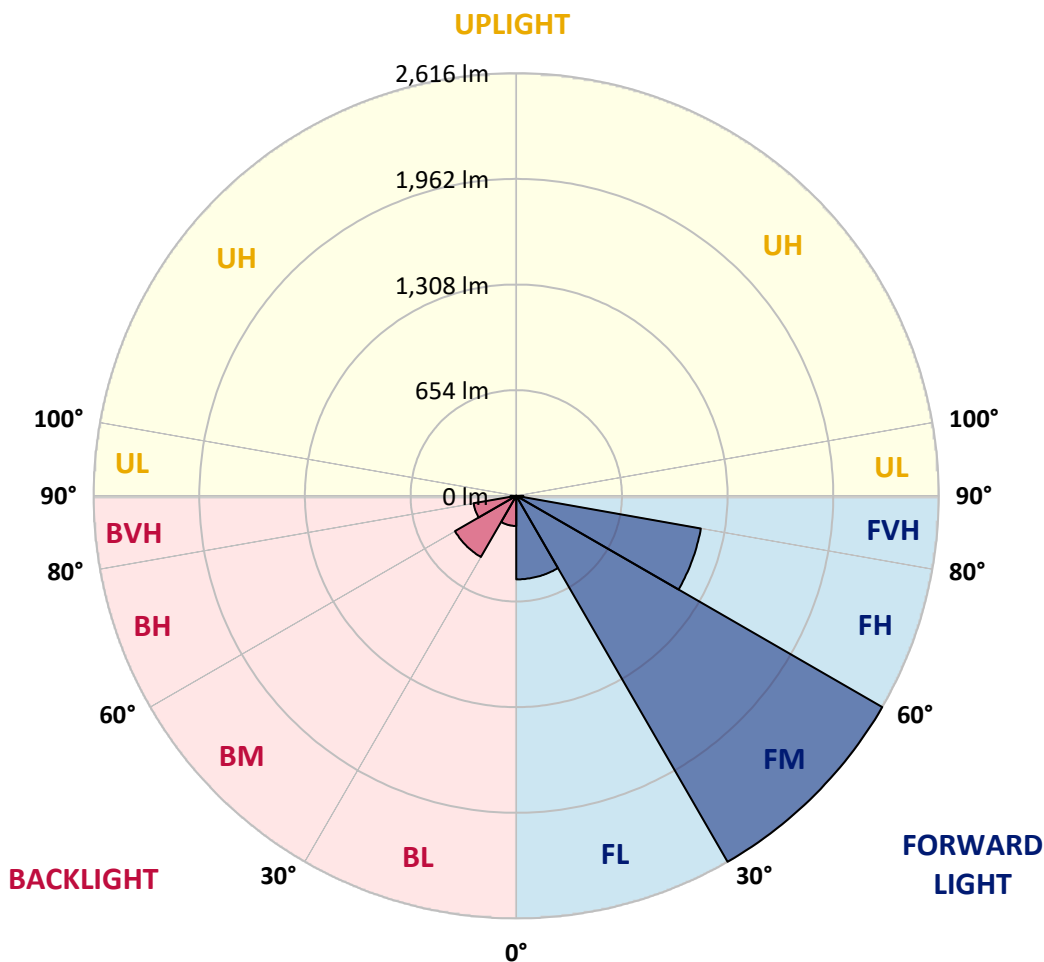


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 517.2 | 9.8 | | | |
| FM (30°-60°) | 2615.7 | 49.7 | | | |
| FH (60°-80°) | 1160.0 | 22.0 | | | G1/1800 |
| FVH (80°-90°) | 43.6 | 0.8 | | | G1/100 |
| BL (0°-30°) | 186.8 | 3.5 | B1/500 | | |
| BM (30°-60°) | 437.4 | 8.3 | B1/1000 | | |
| BH (60°-80°) | 268.7 | 5.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 35.7 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 |
| 2.5° | 586.8 | 569.8 | 569.8 | 551.3 | 552.7 | 537.1 | 520.0 | 503.0 | 484.5 | 470.3 | 463.2 |
| 5° | 767.3 | 754.5 | 750.2 | 728.9 | 694.8 | 656.4 | 615.2 | 572.6 | 528.6 | 494.5 | 477.4 |
| 7.5° | 936.3 | 926.4 | 920.7 | 896.6 | 849.7 | 808.5 | 743.1 | 665.0 | 589.7 | 525.7 | 500.1 |
| 10° | 1061.4 | 1054.3 | 1042.9 | 1031.5 | 997.4 | 961.9 | 880.9 | 770.1 | 659.3 | 564.1 | 525.7 |
| 12.5° | 1152.3 | 1142.4 | 1142.4 | 1140.9 | 1118.2 | 1085.5 | 1010.2 | 890.9 | 740.3 | 606.7 | 554.1 |
| 15° | 1213.4 | 1212.0 | 1216.2 | 1224.8 | 1219.1 | 1197.8 | 1122.5 | 1001.7 | 822.7 | 655.0 | 586.8 |
| 17.5° | 1258.9 | 1253.2 | 1261.7 | 1284.4 | 1301.5 | 1293.0 | 1230.5 | 1108.3 | 913.6 | 707.6 | 622.3 |
| 20° | 1308.6 | 1297.2 | 1308.6 | 1337.0 | 1358.3 | 1371.1 | 1341.3 | 1210.6 | 1011.6 | 764.4 | 656.4 |
| 22.5° | 1403.8 | 1402.4 | 1396.7 | 1405.2 | 1419.4 | 1442.2 | 1425.1 | 1314.3 | 1106.8 | 821.2 | 696.2 |
| 25° | 1574.3 | 1558.7 | 1543.0 | 1524.6 | 1508.9 | 1516.0 | 1501.8 | 1410.9 | 1193.5 | 883.8 | 730.3 |
| 27.5° | 1764.7 | 1747.6 | 1719.2 | 1673.8 | 1631.1 | 1605.6 | 1575.7 | 1494.7 | 1277.3 | 940.6 | 763.0 |
| 30° | 1939.5 | 1933.8 | 1891.1 | 1841.4 | 1767.5 | 1720.6 | 1663.8 | 1591.3 | 1378.2 | 1003.1 | 797.1 |
| 32.5° | 2102.9 | 2091.5 | 2048.9 | 1996.3 | 1909.6 | 1857.0 | 1778.9 | 1696.5 | 1493.3 | 1079.8 | 832.6 |
| 35° | 2243.5 | 2232.1 | 2182.4 | 2115.6 | 2040.3 | 1994.9 | 1905.4 | 1790.3 | 1598.5 | 1146.6 | 862.5 |
| 37.5° | 2350.1 | 2337.3 | 2290.4 | 2225.0 | 2158.3 | 2137.0 | 2060.2 | 1909.6 | 1717.8 | 1230.5 | 899.4 |
| 40° | 2409.8 | 2394.1 | 2362.9 | 2317.4 | 2262.0 | 2252.0 | 2219.4 | 2057.4 | 1868.4 | 1332.8 | 953.4 |
| 42.5° | 2416.9 | 2402.6 | 2385.6 | 2381.3 | 2377.1 | 2385.6 | 2401.2 | 2225.0 | 2040.3 | 1469.2 | 1033.0 |
| 45° | 2354.3 | 2345.8 | 2347.2 | 2395.5 | 2462.3 | 2540.5 | 2634.2 | 2472.3 | 2271.9 | 1729.2 | 1212.0 |
| 47.5° | 2220.8 | 2216.5 | 2247.8 | 2328.8 | 2478.0 | 2655.6 | 2921.3 | 2895.7 | 2820.4 | 2148.3 | 1442.2 |
| 50° | 2004.8 | 1997.7 | 2064.5 | 2192.4 | 2405.5 | 2693.9 | 3114.5 | 3394.4 | 3456.9 | 2473.7 | 1592.8 |
| 52.5° | 1695.1 | 1703.6 | 1807.3 | 1982.1 | 2239.3 | 2652.7 | 3194.1 | 3599.0 | 3763.8 | 2713.8 | 1707.9 |
| 55° | 1378.2 | 1365.4 | 1459.2 | 1675.2 | 1993.4 | 2502.1 | 3209.7 | 3716.9 | 3962.7 | 2935.5 | 1820.1 |
| 57.5° | 1004.5 | 1035.8 | 1135.3 | 1331.3 | 1676.6 | 2229.3 | 3118.8 | 3797.9 | 4229.9 | 3157.1 | 1923.8 |
| 60° | 680.6 | 680.6 | 768.7 | 964.8 | 1295.8 | 1898.2 | 2875.8 | 3768.1 | 4462.9 | 3330.5 | 1946.6 |
| 62.5° | 433.4 | 429.1 | 500.1 | 639.4 | 927.8 | 1474.8 | 2512.1 | 3580.5 | 4545.3 | 3371.7 | 1851.4 |
| 65° | 274.2 | 279.9 | 305.5 | 390.7 | 593.9 | 1047.2 | 2016.2 | 3206.8 | 4410.3 | 3276.5 | 1685.1 |
| 67.5° | 220.2 | 221.7 | 234.4 | 270.0 | 365.2 | 672.1 | 1494.7 | 2691.1 | 4087.8 | 3036.3 | 1490.5 |
| 70° | 194.7 | 197.5 | 200.3 | 213.1 | 250.1 | 424.8 | 981.8 | 2166.8 | 3559.2 | 2618.6 | 1281.6 |
| 72.5° | 177.6 | 180.4 | 183.3 | 186.1 | 206.0 | 277.1 | 579.7 | 1642.5 | 2871.5 | 2011.9 | 977.5 |
| 75° | 163.4 | 166.2 | 166.2 | 167.7 | 179.0 | 206.0 | 318.3 | 1132.4 | 1999.1 | 1251.8 | 609.5 |
| 77.5° | 146.3 | 147.8 | 147.8 | 150.6 | 162.0 | 162.0 | 197.5 | 700.5 | 1109.7 | 566.9 | 308.3 |
| 80° | 123.6 | 126.5 | 126.5 | 130.7 | 142.1 | 125.0 | 132.1 | 358.1 | 460.4 | 233.0 | 137.8 |
| 82.5° | 90.9 | 96.6 | 99.5 | 106.6 | 113.7 | 95.2 | 95.2 | 180.4 | 194.7 | 103.7 | 73.9 |
| 85° | 49.7 | 51.2 | 73.9 | 79.6 | 83.8 | 56.8 | 63.9 | 89.5 | 96.6 | 45.5 | 36.9 |
| 87.5° | 14.2 | 15.6 | 35.5 | 44.0 | 39.8 | 24.2 | 27.0 | 34.1 | 34.1 | 12.8 | 9.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P573086

CATALOG NUMBER: ARCH-S-PA2-30-750-U-T2R

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 |
| 2.5° | 457.5 | 446.1 | 436.2 | 429.1 | 422.0 | 417.7 | 416.3 | 413.5 | 413.5 | 414.9 |
| 5° | 463.2 | 443.3 | 427.7 | 419.1 | 413.5 | 410.6 | 409.2 | 409.2 | 410.6 | 410.6 |
| 7.5° | 477.4 | 447.6 | 433.4 | 426.3 | 420.6 | 417.7 | 417.7 | 416.3 | 417.7 | 417.7 |
| 10° | 497.3 | 460.4 | 444.7 | 436.2 | 431.9 | 427.7 | 426.3 | 424.8 | 424.8 | 424.8 |
| 12.5° | 518.6 | 474.6 | 457.5 | 447.6 | 440.5 | 434.8 | 431.9 | 429.1 | 427.7 | 427.7 |
| 15° | 538.5 | 488.8 | 466.0 | 454.7 | 444.7 | 436.2 | 430.5 | 426.3 | 424.8 | 424.8 |
| 17.5° | 559.8 | 498.7 | 471.7 | 456.1 | 443.3 | 431.9 | 424.8 | 419.1 | 416.3 | 416.3 |
| 20° | 582.5 | 505.8 | 471.7 | 451.8 | 434.8 | 423.4 | 414.9 | 409.2 | 403.5 | 403.5 |
| 22.5° | 601.0 | 508.7 | 466.0 | 441.9 | 424.8 | 410.6 | 402.1 | 395.0 | 390.7 | 390.7 |
| 25° | 616.6 | 505.8 | 453.2 | 426.3 | 406.4 | 393.6 | 385.0 | 379.4 | 375.1 | 375.1 |
| 27.5° | 626.6 | 494.5 | 437.6 | 409.2 | 390.7 | 377.9 | 372.3 | 366.6 | 363.7 | 363.7 |
| 30° | 632.3 | 480.2 | 417.7 | 390.7 | 372.3 | 365.2 | 362.3 | 356.6 | 352.4 | 350.9 |
| 32.5° | 635.1 | 458.9 | 397.8 | 372.3 | 359.5 | 356.6 | 356.6 | 349.5 | 343.8 | 342.4 |
| 35° | 632.3 | 436.2 | 377.9 | 356.6 | 352.4 | 353.8 | 350.9 | 342.4 | 335.3 | 332.5 |
| 37.5° | 628.0 | 409.2 | 356.6 | 345.3 | 349.5 | 352.4 | 343.8 | 332.5 | 321.1 | 318.3 |
| 40° | 625.2 | 385.0 | 339.6 | 333.9 | 346.7 | 348.1 | 332.5 | 311.2 | 302.6 | 299.8 |
| 42.5° | 639.4 | 360.9 | 324.0 | 325.4 | 339.6 | 341.0 | 312.6 | 302.6 | 297.0 | 295.5 |
| 45° | 687.7 | 339.6 | 311.2 | 319.7 | 331.1 | 325.4 | 302.6 | 301.2 | 297.0 | 295.5 |
| 47.5° | 724.6 | 324.0 | 305.5 | 315.4 | 324.0 | 304.1 | 301.2 | 299.8 | 295.5 | 294.1 |
| 50° | 737.4 | 314.0 | 304.1 | 312.6 | 314.0 | 294.1 | 298.4 | 298.4 | 294.1 | 292.7 |
| 52.5° | 738.8 | 308.3 | 306.9 | 311.2 | 298.4 | 289.9 | 295.5 | 295.5 | 291.3 | 289.9 |
| 55° | 744.5 | 305.5 | 308.3 | 311.2 | 281.3 | 284.2 | 289.9 | 291.3 | 287.0 | 285.6 |
| 57.5° | 733.2 | 301.2 | 311.2 | 312.6 | 274.2 | 278.5 | 284.2 | 284.2 | 284.2 | 284.2 |
| 60° | 689.1 | 292.7 | 309.7 | 309.7 | 268.5 | 271.4 | 277.1 | 279.9 | 281.3 | 281.3 |
| 62.5° | 608.1 | 275.6 | 301.2 | 301.2 | 262.9 | 265.7 | 272.8 | 272.8 | 277.1 | 277.1 |
| 65° | 505.8 | 251.5 | 284.2 | 282.7 | 257.2 | 260.0 | 268.5 | 265.7 | 272.8 | 274.2 |
| 67.5° | 422.0 | 221.7 | 258.6 | 261.4 | 251.5 | 258.6 | 264.3 | 254.3 | 268.5 | 268.5 |
| 70° | 336.7 | 186.1 | 224.5 | 237.3 | 241.5 | 260.0 | 255.8 | 240.1 | 258.6 | 254.3 |
| 72.5° | 261.4 | 157.7 | 184.7 | 207.4 | 230.2 | 258.6 | 237.3 | 220.2 | 231.6 | 224.5 |
| 75° | 190.4 | 130.7 | 152.0 | 171.9 | 214.5 | 254.3 | 218.8 | 193.2 | 193.2 | 190.4 |
| 77.5° | 133.6 | 106.6 | 122.2 | 136.4 | 198.9 | 243.0 | 196.1 | 166.2 | 159.1 | 157.7 |
| 80° | 90.9 | 83.8 | 96.6 | 105.1 | 176.2 | 220.2 | 169.1 | 137.8 | 125.0 | 122.2 |
| 82.5° | 59.7 | 59.7 | 65.4 | 71.0 | 136.4 | 183.3 | 132.1 | 102.3 | 132.1 | 126.5 |
| 85° | 34.1 | 35.5 | 35.5 | 41.2 | 75.3 | 129.3 | 93.8 | 102.3 | 61.1 | 56.8 |
| 87.5° | 11.4 | 11.4 | 11.4 | 11.4 | 15.6 | 52.6 | 39.8 | 36.9 | 14.2 | 12.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)