

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **ARCH3-60-AMB-U-T4W-PFS**

Issue Date: 12/16/2024

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-12)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ARCH3-60-AMB-U-T4W-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV
WIDE OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2438 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

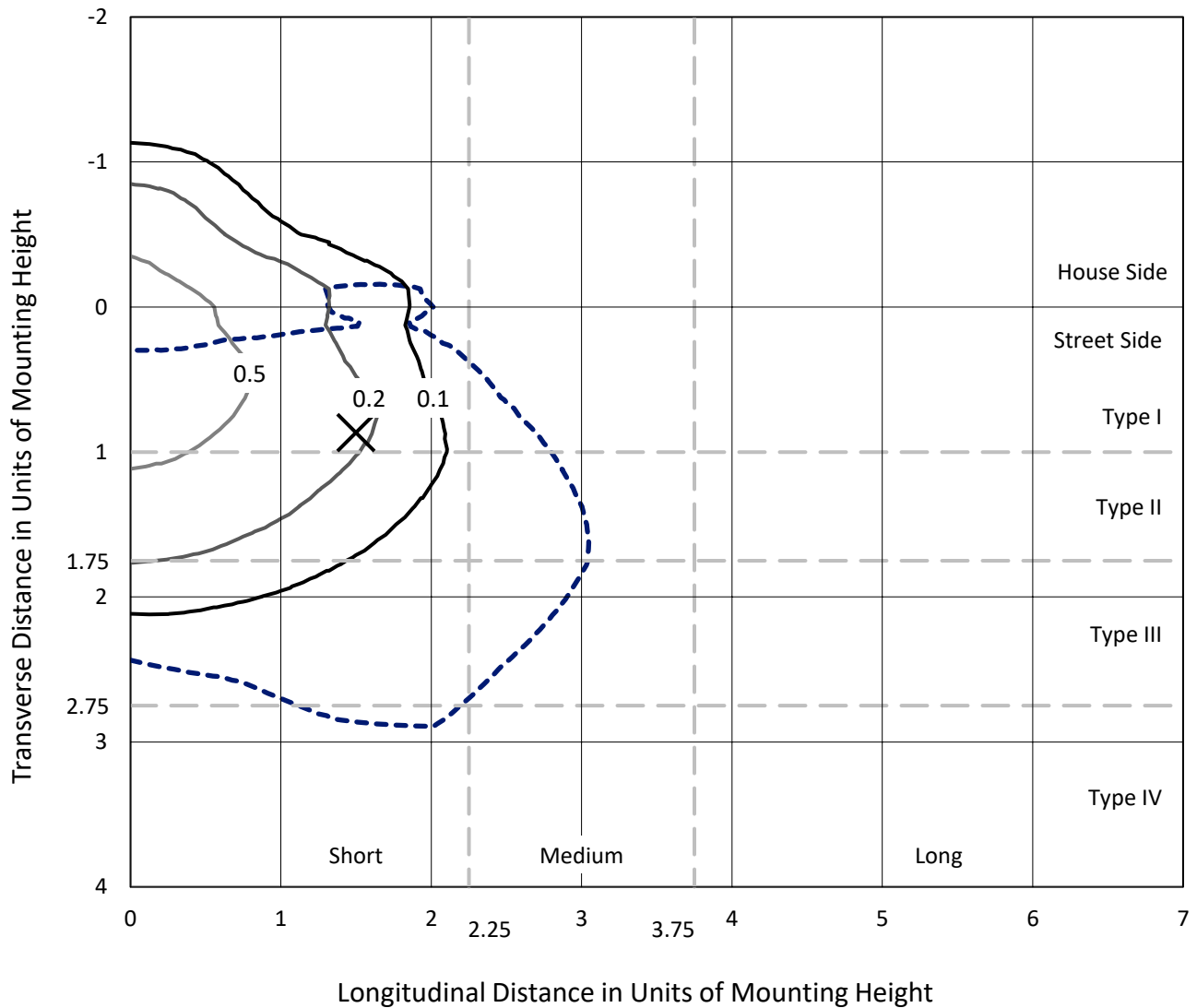
Input Watts (W): 58.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P#
 CATALOG NUMBER: ARCH3-60-AMB-U-T4W-PFS

Iso-Footcandle Lines of Horizontal Illumination

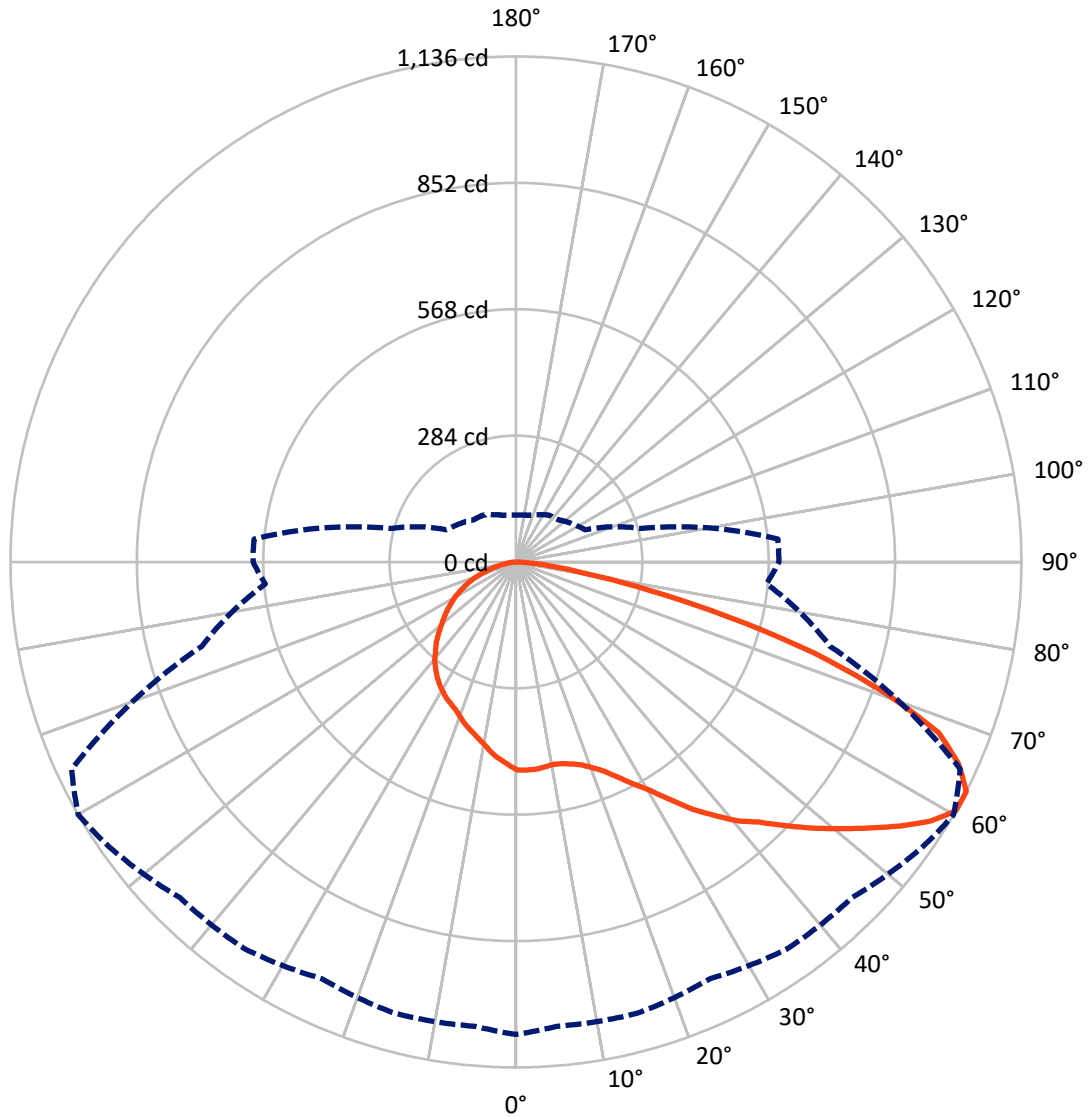
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P#
CATALOG NUMBER: ARCH3-60-AMB-U-T4W-PFS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P#
 CATALOG NUMBER: ARCH3-60-AMB-U-T4W-PFS

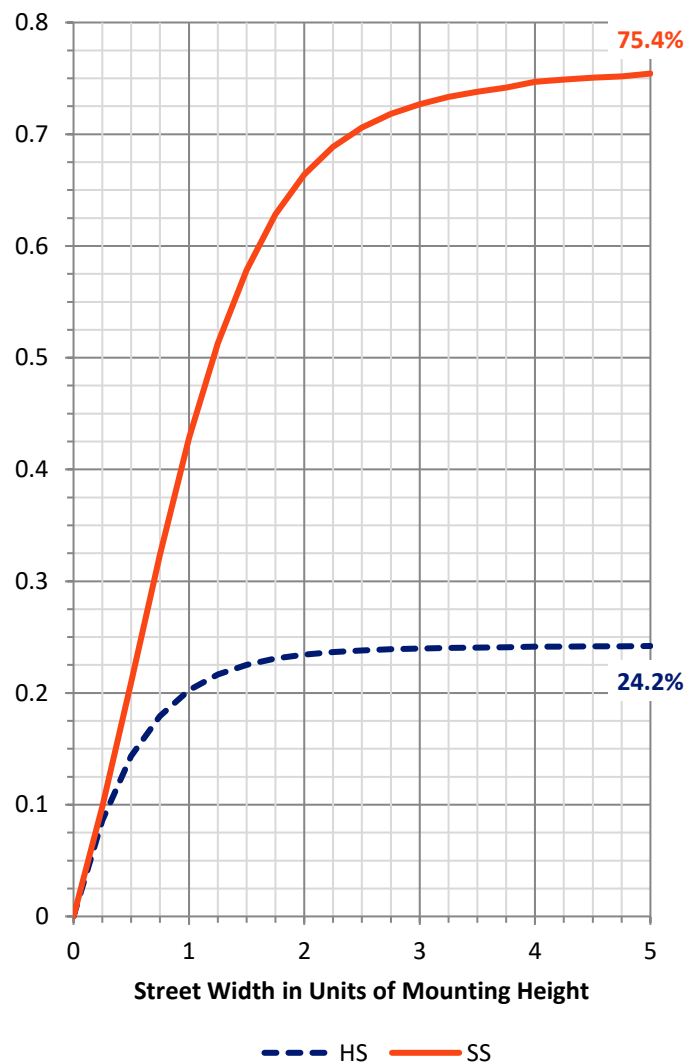
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 593.9 | 0.0 | 593.9 |
| | % Fixture | 24.4 | 0.0 | 24.4 |
| Street Side | Lumens | 1844.1 | 0.0 | 1844.1 |
| | % Fixture | 75.6 | 0.0 | 75.6 |
| Total | Lumens | 2438.0 | 0.0 | 2438.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.8 | 1.8 |
| 10°-20° | 126.9 | 5.2 |
| 20°-30° | 217.8 | 8.9 |
| 30°-40° | 323.4 | 13.3 |
| 40°-50° | 436.3 | 17.9 |
| 50°-60° | 528.6 | 21.7 |
| 60°-70° | 497.7 | 20.4 |
| 70°-80° | 234.0 | 9.6 |
| 80°-90° | 30.4 | 1.2 |
| 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° | 2438.0 | 100.0 |
| 0°-180° | 2438.0 | 100.0 |

Coefficient of Utilization



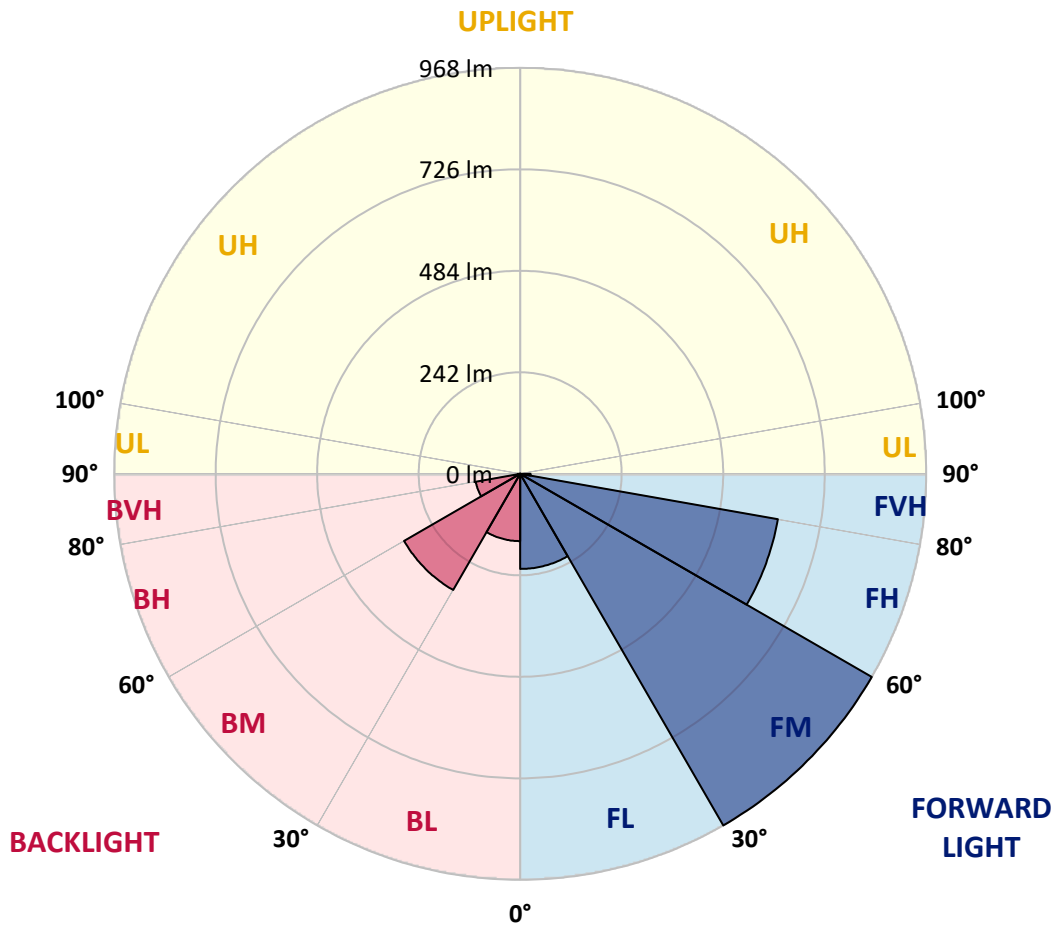
REPORT NUMBER: P#
 CATALOG NUMBER: ARCH3-60-AMB-U-T4W-PFS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 227.0 | 9.3 | | | |
| FM (30°-60°) | 968.4 | 39.7 | | | |
| FH (60°-80°) | 624.1 | 25.6 | | | G0/660 |
| FVH (80°-90°) | 24.6 | 1.0 | | | G1/100 |
| BL (0°-30°) | 160.6 | 6.6 | B1/500 | | |
| BM (30°-60°) | 319.9 | 13.1 | B1/1000 | | |
| BH (60°-80°) | 107.6 | 4.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 5.8 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short



REPORT NUMBER: P#
 CATALOG NUMBER: ARCH3-60-AMB-U-T4W-PFS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 |
| 2.5° | 470.9 | 470.9 | 470.9 | 470.9 | 470.9 | 470.9 | 468.0 | 468.0 | 468.0 | 465.2 | 465.2 |
| 5° | 468.0 | 470.9 | 470.9 | 470.9 | 470.9 | 470.9 | 468.0 | 468.0 | 468.0 | 465.2 | 465.2 |
| 7.5° | 473.7 | 473.7 | 473.7 | 470.9 | 470.9 | 470.9 | 465.2 | 465.2 | 465.2 | 462.3 | 462.3 |
| 10° | 488.0 | 488.0 | 485.2 | 479.5 | 476.6 | 468.0 | 462.3 | 462.3 | 459.5 | 459.5 | 456.6 |
| 12.5° | 516.6 | 516.6 | 508.0 | 502.3 | 490.9 | 476.6 | 468.0 | 465.2 | 459.5 | 459.5 | 453.8 |
| 15° | 553.7 | 553.7 | 545.1 | 533.7 | 516.6 | 493.7 | 476.6 | 470.9 | 462.3 | 459.5 | 456.6 |
| 17.5° | 585.0 | 590.8 | 579.3 | 567.9 | 547.9 | 519.4 | 490.9 | 479.5 | 468.0 | 462.3 | 456.6 |
| 20° | 607.9 | 613.6 | 605.0 | 596.5 | 576.5 | 545.1 | 508.0 | 493.7 | 476.6 | 462.3 | 456.6 |
| 22.5° | 619.3 | 622.2 | 619.3 | 613.6 | 602.2 | 573.6 | 530.8 | 510.8 | 490.9 | 468.0 | 459.5 |
| 25° | 630.7 | 636.4 | 630.7 | 625.0 | 622.2 | 599.3 | 559.4 | 536.5 | 508.0 | 473.7 | 462.3 |
| 27.5° | 662.1 | 665.0 | 656.4 | 645.0 | 642.1 | 627.9 | 590.8 | 565.1 | 530.8 | 485.2 | 468.0 |
| 30° | 716.3 | 716.3 | 704.9 | 676.4 | 662.1 | 650.7 | 625.0 | 596.5 | 556.5 | 496.6 | 473.7 |
| 32.5° | 784.8 | 787.7 | 770.6 | 727.7 | 696.4 | 684.9 | 662.1 | 636.4 | 590.8 | 510.8 | 479.5 |
| 35° | 850.5 | 853.3 | 836.2 | 782.0 | 744.9 | 722.0 | 707.8 | 682.1 | 627.9 | 528.0 | 485.2 |
| 37.5° | 907.5 | 907.5 | 890.4 | 833.3 | 796.2 | 759.1 | 747.7 | 722.0 | 659.3 | 536.5 | 488.0 |
| 40° | 961.8 | 958.9 | 936.1 | 870.4 | 844.8 | 799.1 | 784.8 | 764.8 | 702.1 | 556.5 | 496.6 |
| 42.5° | 996.0 | 984.6 | 964.6 | 901.8 | 881.9 | 844.8 | 819.1 | 799.1 | 747.7 | 576.5 | 502.3 |
| 45° | 1041.7 | 1018.8 | 987.4 | 938.9 | 916.1 | 890.4 | 859.0 | 844.8 | 790.5 | 599.3 | 513.7 |
| 47.5° | 1053.1 | 1027.4 | 1007.4 | 981.7 | 947.5 | 930.4 | 899.0 | 893.3 | 836.2 | 625.0 | 522.3 |
| 50° | 1055.9 | 1036.0 | 1036.0 | 998.9 | 978.9 | 958.9 | 947.5 | 941.8 | 884.7 | 647.8 | 533.7 |
| 52.5° | 1038.8 | 1041.7 | 1050.2 | 1013.1 | 1010.3 | 993.2 | 996.0 | 993.2 | 936.1 | 670.7 | 545.1 |
| 55° | 1064.5 | 1070.2 | 1070.2 | 1027.4 | 1038.8 | 1024.6 | 1041.7 | 1047.4 | 993.2 | 699.2 | 556.5 |
| 57.5° | 1087.3 | 1087.3 | 1087.3 | 1053.1 | 1064.5 | 1053.1 | 1087.3 | 1098.8 | 1053.1 | 719.2 | 565.1 |
| 60° | 1061.7 | 1047.4 | 1050.2 | 1033.1 | 1061.7 | 1067.4 | 1115.9 | 1135.9 | 1101.6 | 730.6 | 565.1 |
| 62.5° | 947.5 | 953.2 | 958.9 | 958.9 | 1018.8 | 1050.2 | 1107.3 | 1135.9 | 1115.9 | 730.6 | 553.7 |
| 65° | 779.1 | 804.8 | 827.6 | 884.7 | 944.6 | 1018.8 | 1067.4 | 1093.0 | 1081.6 | 707.8 | 528.0 |
| 67.5° | 573.6 | 607.9 | 667.8 | 790.5 | 873.3 | 956.1 | 1018.8 | 1024.6 | 984.6 | 625.0 | 450.9 |
| 70° | 425.2 | 453.8 | 533.7 | 673.5 | 773.4 | 833.3 | 921.8 | 879.0 | 804.8 | 513.7 | 362.4 |
| 72.5° | 294.0 | 313.9 | 411.0 | 556.5 | 662.1 | 676.4 | 730.6 | 702.1 | 616.4 | 399.5 | 288.2 |
| 75° | 188.4 | 202.6 | 279.7 | 416.7 | 522.3 | 499.4 | 485.2 | 493.7 | 456.6 | 308.2 | 216.9 |
| 77.5° | 122.7 | 131.3 | 171.2 | 259.7 | 336.8 | 339.6 | 299.7 | 305.4 | 305.4 | 219.8 | 162.7 |
| 80° | 74.2 | 79.9 | 105.6 | 148.4 | 171.2 | 202.6 | 176.9 | 162.7 | 157.0 | 137.0 | 111.3 |
| 82.5° | 37.1 | 40.0 | 57.1 | 79.9 | 82.8 | 88.5 | 88.5 | 85.6 | 82.8 | 82.8 | 74.2 |
| 85° | 11.4 | 11.4 | 17.1 | 25.7 | 25.7 | 31.4 | 40.0 | 37.1 | 37.1 | 40.0 | 40.0 |
| 87.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 5.7 | 8.6 | 8.6 | 8.6 | 8.6 |
| 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: P#
 CATALOG NUMBER: ARCH3-60-AMB-U-T4W-PFS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 | 468.0 |
| 2.5° | 465.2 | 462.3 | 459.5 | 456.6 | 456.6 | 456.6 | 450.9 | 450.9 | 450.9 | 450.9 | 450.9 |
| 5° | 462.3 | 459.5 | 456.6 | 448.1 | 442.4 | 439.5 | 433.8 | 430.9 | 428.1 | 425.2 | 425.2 |
| 7.5° | 459.5 | 456.6 | 448.1 | 439.5 | 428.1 | 419.5 | 408.1 | 405.3 | 402.4 | 399.5 | 399.5 |
| 10° | 456.6 | 450.9 | 442.4 | 425.2 | 411.0 | 399.5 | 388.1 | 382.4 | 379.6 | 379.6 | 379.6 |
| 12.5° | 453.8 | 448.1 | 433.8 | 413.8 | 396.7 | 382.4 | 373.9 | 371.0 | 371.0 | 371.0 | 371.0 |
| 15° | 453.8 | 448.1 | 428.1 | 405.3 | 382.4 | 371.0 | 365.3 | 368.2 | 368.2 | 371.0 | 371.0 |
| 17.5° | 453.8 | 445.2 | 422.4 | 393.8 | 373.9 | 365.3 | 362.4 | 365.3 | 371.0 | 373.9 | 373.9 |
| 20° | 453.8 | 445.2 | 416.7 | 379.6 | 362.4 | 356.7 | 359.6 | 365.3 | 371.0 | 373.9 | 373.9 |
| 22.5° | 456.6 | 448.1 | 411.0 | 368.2 | 351.0 | 351.0 | 356.7 | 362.4 | 362.4 | 368.2 | 368.2 |
| 25° | 459.5 | 448.1 | 405.3 | 359.6 | 342.5 | 342.5 | 348.2 | 351.0 | 351.0 | 353.9 | 356.7 |
| 27.5° | 465.2 | 450.9 | 402.4 | 353.9 | 333.9 | 333.9 | 333.9 | 339.6 | 342.5 | 345.3 | 348.2 |
| 30° | 470.9 | 456.6 | 402.4 | 345.3 | 322.5 | 316.8 | 319.6 | 325.3 | 328.2 | 333.9 | 336.8 |
| 32.5° | 476.6 | 462.3 | 399.5 | 336.8 | 311.1 | 299.7 | 302.5 | 311.1 | 316.8 | 322.5 | 325.3 |
| 35° | 479.5 | 468.0 | 399.5 | 328.2 | 296.8 | 279.7 | 282.5 | 296.8 | 302.5 | 308.2 | 311.1 |
| 37.5° | 488.0 | 479.5 | 405.3 | 319.6 | 279.7 | 259.7 | 268.3 | 285.4 | 288.2 | 291.1 | 294.0 |
| 40° | 499.4 | 493.7 | 408.1 | 311.1 | 262.6 | 242.6 | 251.1 | 268.3 | 276.8 | 279.7 | 282.5 |
| 42.5° | 508.0 | 508.0 | 411.0 | 296.8 | 242.6 | 228.3 | 236.9 | 256.9 | 265.4 | 265.4 | 268.3 |
| 45° | 522.3 | 525.1 | 413.8 | 282.5 | 228.3 | 216.9 | 222.6 | 242.6 | 248.3 | 248.3 | 248.3 |
| 47.5° | 536.5 | 542.2 | 411.0 | 262.6 | 214.0 | 205.5 | 211.2 | 225.5 | 228.3 | 228.3 | 228.3 |
| 50° | 550.8 | 559.4 | 399.5 | 242.6 | 199.8 | 196.9 | 194.1 | 199.8 | 196.9 | 196.9 | 196.9 |
| 52.5° | 565.1 | 579.3 | 382.4 | 222.6 | 188.4 | 182.6 | 176.9 | 174.1 | 171.2 | 165.5 | 168.4 |
| 55° | 582.2 | 590.8 | 359.6 | 205.5 | 176.9 | 168.4 | 157.0 | 151.3 | 145.5 | 145.5 | 145.5 |
| 57.5° | 590.8 | 596.5 | 328.2 | 188.4 | 162.7 | 151.3 | 139.8 | 134.1 | 128.4 | 125.6 | 125.6 |
| 60° | 590.8 | 590.8 | 291.1 | 171.2 | 151.3 | 134.1 | 128.4 | 117.0 | 108.4 | 105.6 | 105.6 |
| 62.5° | 582.2 | 570.8 | 248.3 | 154.1 | 134.1 | 119.9 | 114.2 | 99.9 | 88.5 | 85.6 | 82.8 |
| 65° | 547.9 | 513.7 | 208.3 | 139.8 | 117.0 | 108.4 | 97.0 | 85.6 | 71.3 | 68.5 | 65.6 |
| 67.5° | 459.5 | 396.7 | 171.2 | 122.7 | 102.7 | 91.3 | 82.8 | 68.5 | 57.1 | 54.2 | 54.2 |
| 70° | 362.4 | 294.0 | 137.0 | 99.9 | 88.5 | 74.2 | 68.5 | 51.4 | 37.1 | 34.2 | 31.4 |
| 72.5° | 276.8 | 216.9 | 111.3 | 79.9 | 68.5 | 57.1 | 48.5 | 37.1 | 25.7 | 20.0 | 20.0 |
| 75° | 211.2 | 162.7 | 94.2 | 65.6 | 54.2 | 37.1 | 37.1 | 28.5 | 17.1 | 14.3 | 14.3 |
| 77.5° | 157.0 | 122.7 | 74.2 | 51.4 | 34.2 | 28.5 | 22.8 | 20.0 | 8.6 | 2.9 | 2.9 |
| 80° | 102.7 | 82.8 | 51.4 | 34.2 | 22.8 | 17.1 | 11.4 | 11.4 | 2.9 | 0.0 | 0.0 |
| 82.5° | 71.3 | 54.2 | 34.2 | 22.8 | 14.3 | 8.6 | 8.6 | 5.7 | 2.9 | 0.0 | 0.0 |
| 85° | 40.0 | 28.5 | 20.0 | 11.4 | 8.6 | 5.7 | 2.9 | 2.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.6 | 5.7 | 5.7 | 5.7 | 2.9 | 2.9 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)