

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: P314606

Luminaire Tested: **MPW-A2-D-U-ASYM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MPW-A2-D-U-ASYM  
Description: WOODBRIDGE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2041 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3

Input Watts (W): 17.7  
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: 28.75 FT

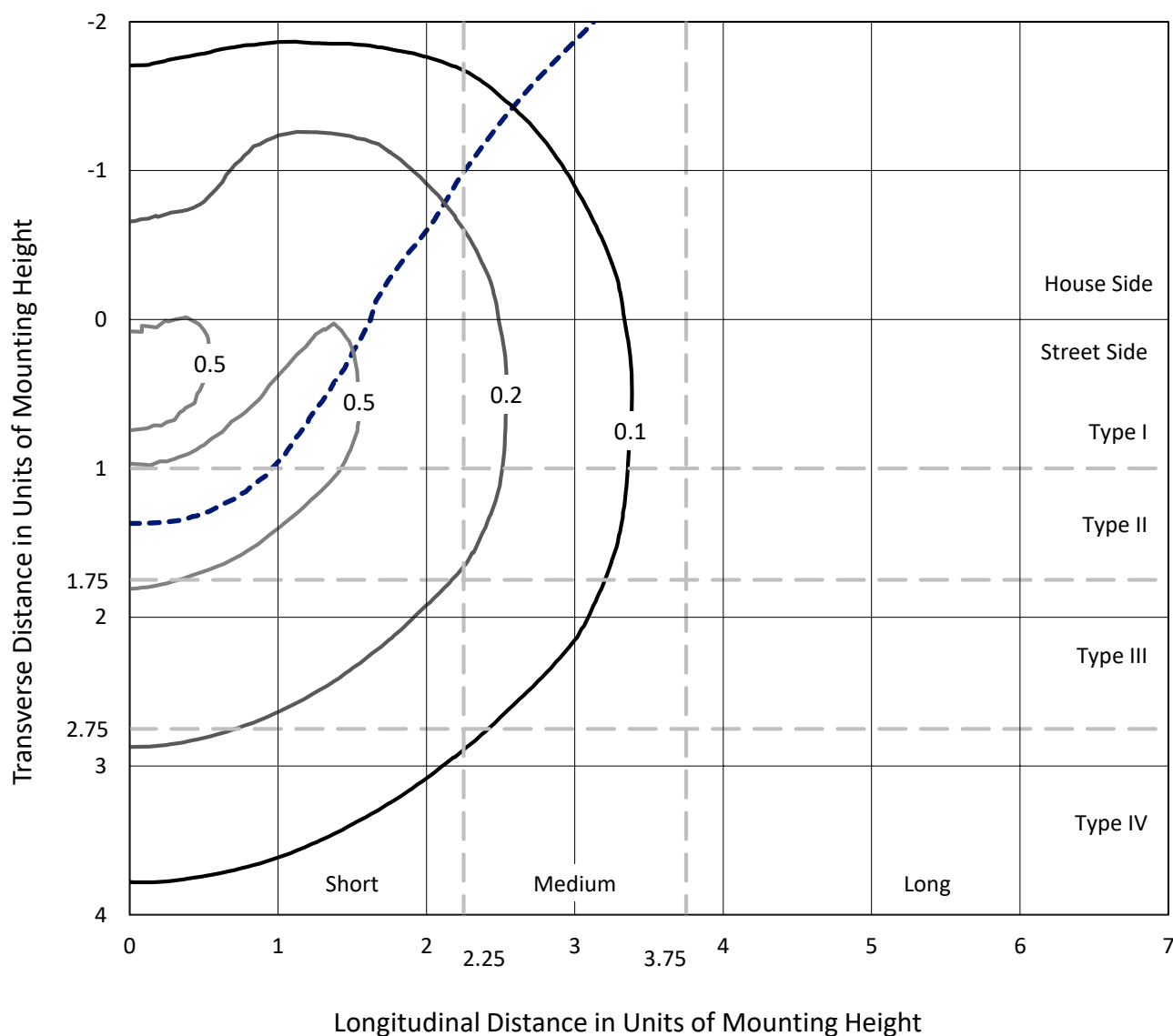


REPORT NUMBER: P314606

CATALOG NUMBER: MPW-A2-D-U-ASYM

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

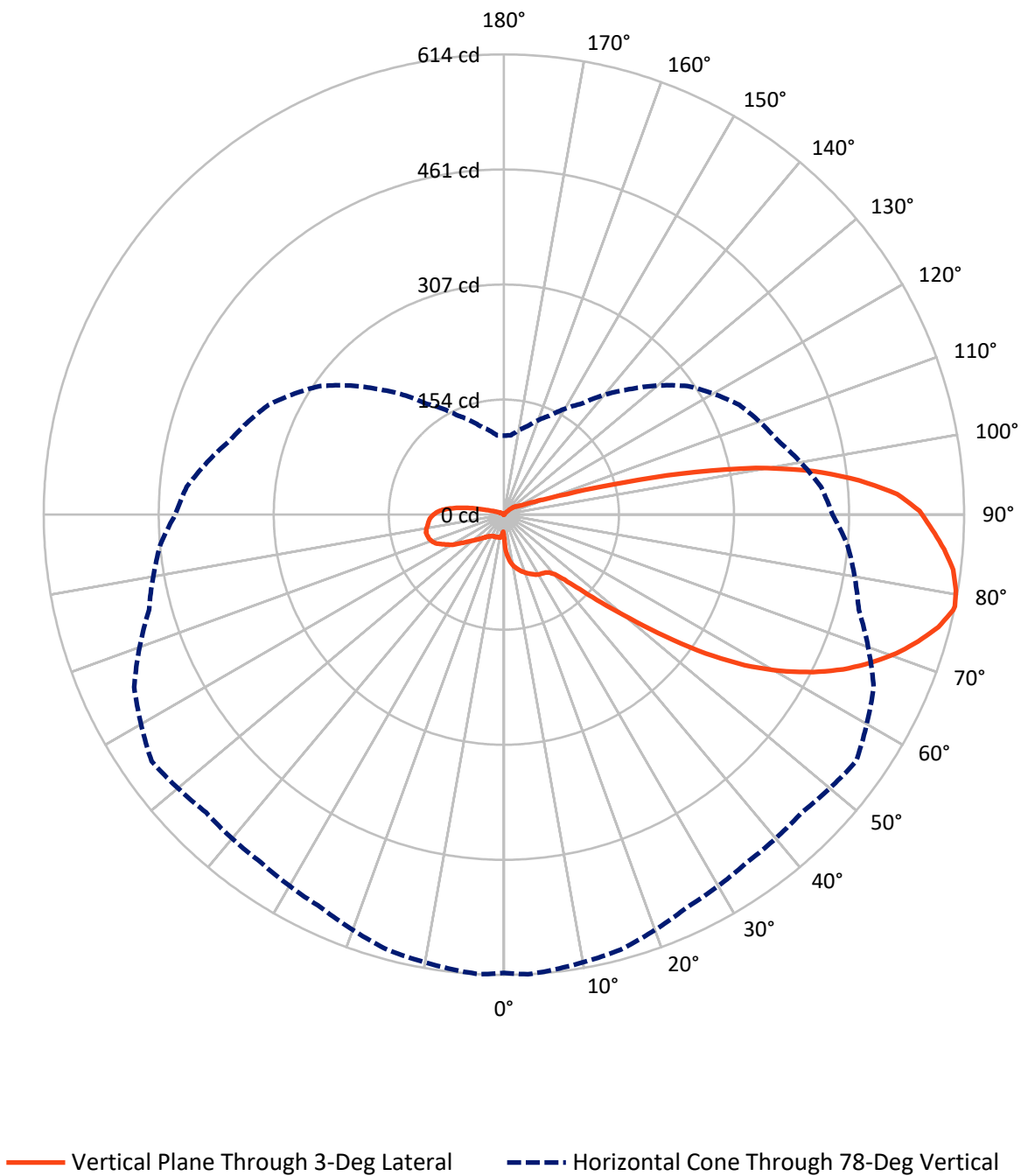


Based on 10 foot mounting height. Maximum calculated value = 0.7 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314606

CATALOG NUMBER: MPW-A2-D-U-ASYM

## Luminous Intensity Polar Plot



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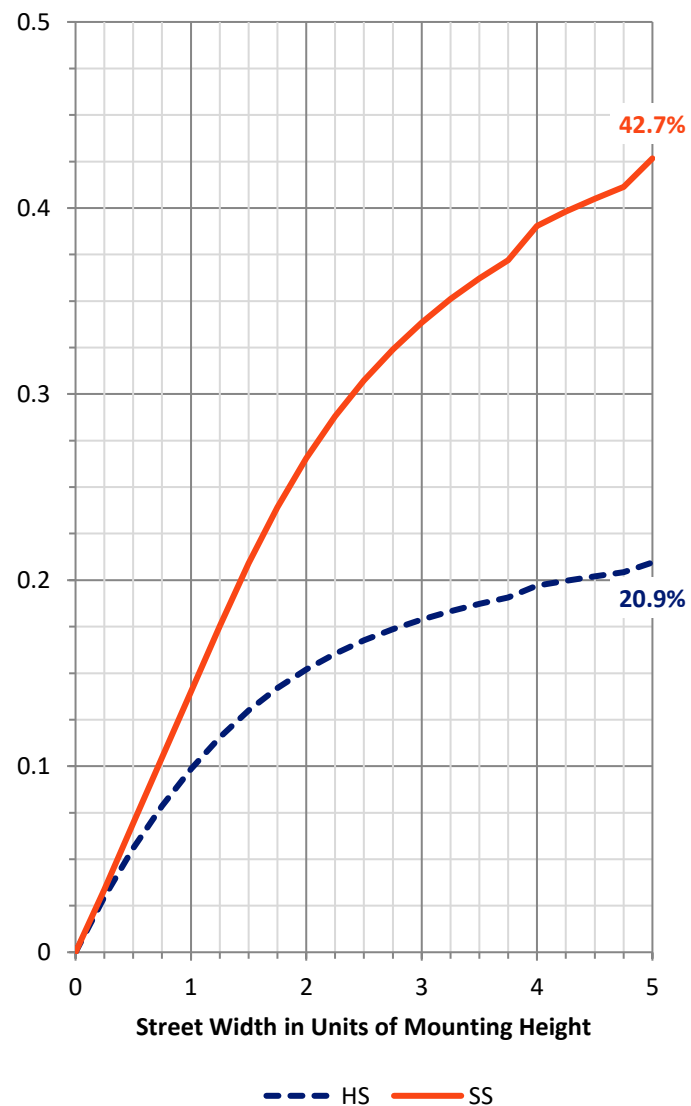
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 487.5    | 157.2  | 644.7  |
|                    | % Fixture | 23.9     | 7.7    | 31.6   |
| <b>Street Side</b> | Lumens    | 1050.2   | 346.1  | 1396.3 |
|                    | % Fixture | 51.5     | 17.0   | 68.4   |
| <b>Total</b>       | Lumens    | 1537.7   | 503.3  | 2041.0 |
|                    | % Fixture | 75.3     | 24.7   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.2    | 0.2       |
| 10°-20°   | 15.5   | 0.8       |
| 20°-30°   | 29.1   | 1.4       |
| 30°-40°   | 43.3   | 2.1       |
| 40°-50°   | 84.7   | 4.2       |
| 50°-60°   | 202.5  | 9.9       |
| 60°-70°   | 324.6  | 15.9      |
| 70°-80°   | 411.7  | 20.2      |
| 80°-90°   | 422.0  | 20.7      |
| 90°-100°  | 341.3  | 16.7      |
| 100°-110° | 123.7  | 6.1       |
| 110°-120° | 25.1   | 1.2       |
| 120°-130° | 11.1   | 0.5       |
| 130°-140° | 2.1    | 0.1       |
| 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°    | 1537.7 | 75.3      |
| 0°-180°   | 2041.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P314606

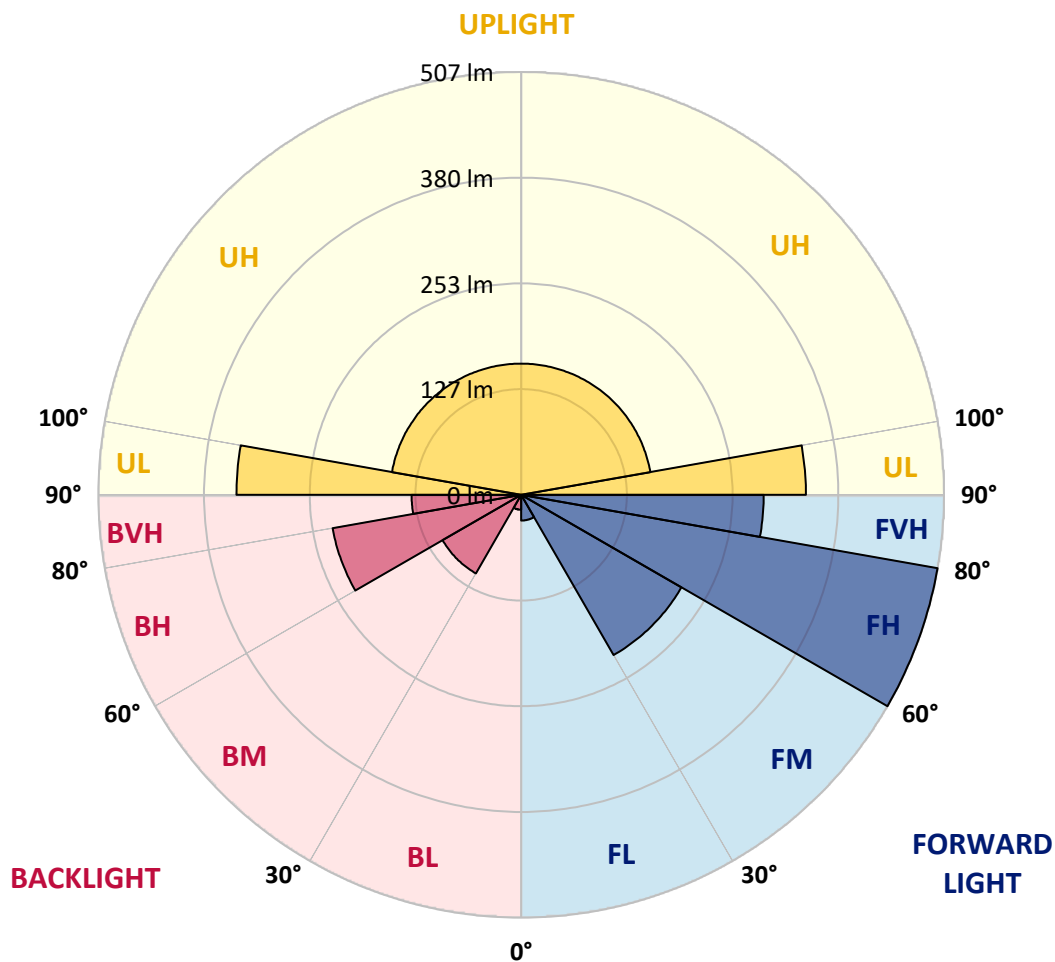
CATALOG NUMBER: MPW-A2-D-U-ASYM

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 30.9   | 1.5       |                         |        |        |
| FM   | (30°-60°)   | 221.8  | 10.9      |                         |        |        |
| FH   | (60°-80°)   | 506.8  | 24.8      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 290.6  | 14.2      |                         |        | G3/500 |
| BL   | (0°-30°)    | 17.9   | 0.9       | B0/110                  |        |        |
| BM   | (30°-60°)   | 108.7  | 5.3       | B0/220                  |        |        |
| BH   | (60°-80°)   | 229.5  | 11.2      | B1/500                  |        | G1/500 |
| BVH  | (80°-90°)   | 131.4  | 6.4       |                         |        | G2/225 |
| UL   | (90°-100°)  | 341.3  | 16.7      |                         | U3/500 |        |
| UH   | (100°-180°) | 157.2  | 7.7       |                         | U3/500 |        |

**BUG Rating: B1-U3-G3**

Type IV Short





REPORT NUMBER: P314606

CATALOG NUMBER: MPW-A2-D-U-ASYM

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 3°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  |
| 2.5°   | 48.9  | 48.0  | 48.0  | 47.4  | 46.8  | 44.9  | 44.0  | 42.1  | 39.9  | 37.5  | 35.3  |
| 5°     | 57.6  | 57.0  | 57.0  | 56.7  | 56.4  | 54.8  | 53.3  | 50.8  | 47.7  | 44.6  | 40.9  |
| 7.5°   | 64.1  | 64.1  | 63.8  | 63.5  | 62.6  | 60.7  | 58.8  | 56.4  | 53.3  | 50.5  | 47.4  |
| 10°    | 69.4  | 69.4  | 69.4  | 68.4  | 67.2  | 65.6  | 63.2  | 60.4  | 57.0  | 53.9  | 50.5  |
| 12.5°  | 73.1  | 73.1  | 73.1  | 71.8  | 70.6  | 69.1  | 66.3  | 63.5  | 60.1  | 57.0  | 53.6  |
| 15°    | 77.1  | 76.8  | 77.1  | 74.9  | 73.7  | 72.2  | 69.4  | 66.9  | 63.5  | 60.7  | 57.3  |
| 17.5°  | 79.9  | 79.9  | 79.6  | 78.7  | 77.1  | 75.2  | 72.5  | 70.0  | 66.9  | 63.8  | 60.4  |
| 20°    | 82.7  | 82.7  | 82.4  | 81.4  | 80.2  | 78.3  | 75.9  | 72.8  | 70.0  | 66.9  | 63.2  |
| 22.5°  | 85.2  | 85.5  | 85.2  | 84.2  | 83.0  | 81.4  | 79.3  | 76.2  | 73.1  | 69.7  | 66.0  |
| 25°    | 87.9  | 87.9  | 88.3  | 87.3  | 85.8  | 84.2  | 82.1  | 79.3  | 76.2  | 72.5  | 68.1  |
| 27.5°  | 90.7  | 90.7  | 90.7  | 89.8  | 87.9  | 86.4  | 83.9  | 81.4  | 78.0  | 74.0  | 69.7  |
| 30°    | 92.3  | 92.6  | 92.3  | 91.7  | 89.8  | 87.9  | 85.5  | 82.7  | 79.3  | 74.9  | 70.6  |
| 32.5°  | 93.5  | 93.5  | 93.5  | 92.6  | 90.7  | 88.9  | 86.4  | 83.0  | 79.6  | 75.6  | 70.9  |
| 35°    | 95.1  | 95.1  | 94.8  | 93.8  | 92.3  | 90.4  | 87.6  | 84.5  | 80.8  | 76.8  | 71.8  |
| 37.5°  | 97.9  | 97.9  | 97.5  | 96.6  | 95.1  | 93.8  | 91.4  | 88.3  | 84.8  | 80.8  | 74.9  |
| 40°    | 105.0 | 104.7 | 104.4 | 104.0 | 102.8 | 102.8 | 101.0 | 98.2  | 94.1  | 90.4  | 83.0  |
| 42.5°  | 119.5 | 118.6 | 118.6 | 118.6 | 118.0 | 118.9 | 118.3 | 115.5 | 111.5 | 106.5 | 97.5  |
| 45°    | 143.7 | 141.8 | 141.8 | 141.2 | 142.4 | 142.8 | 142.8 | 140.0 | 135.0 | 128.8 | 118.0 |
| 47.5°  | 178.1 | 175.0 | 175.6 | 173.4 | 172.5 | 175.6 | 176.2 | 171.6 | 168.8 | 158.5 | 143.7 |
| 50°    | 221.1 | 217.1 | 218.9 | 215.5 | 211.8 | 215.8 | 217.7 | 214.9 | 210.9 | 197.6 | 180.5 |
| 52.5°  | 270.6 | 269.7 | 266.9 | 262.6 | 262.9 | 265.1 | 266.6 | 271.9 | 263.8 | 246.8 | 226.1 |
| 55°    | 327.9 | 327.0 | 326.1 | 316.8 | 317.1 | 317.1 | 319.9 | 325.1 | 318.3 | 293.3 | 272.8 |
| 57.5°  | 381.8 | 379.0 | 379.6 | 368.5 | 365.7 | 358.9 | 362.9 | 369.4 | 357.4 | 328.6 | 305.9 |
| 60°    | 425.2 | 423.0 | 421.5 | 411.9 | 407.2 | 397.9 | 396.7 | 404.7 | 391.1 | 356.7 | 331.3 |
| 62.5°  | 463.6 | 462.9 | 460.8 | 447.2 | 443.4 | 430.1 | 427.6 | 435.4 | 418.0 | 379.6 | 353.9 |
| 65°    | 500.1 | 497.6 | 491.1 | 480.0 | 475.0 | 459.2 | 458.9 | 467.6 | 448.7 | 406.3 | 377.2 |
| 67.5°  | 529.2 | 527.7 | 527.0 | 509.7 | 500.1 | 485.9 | 483.4 | 495.2 | 473.2 | 424.5 | 395.8 |
| 70°    | 555.2 | 555.2 | 553.4 | 539.4 | 524.9 | 512.2 | 508.8 | 522.7 | 497.6 | 449.9 | 419.9 |
| 72.5°  | 579.1 | 578.1 | 577.2 | 564.8 | 546.2 | 532.3 | 528.0 | 544.1 | 515.6 | 464.2 | 435.1 |
| 75°    | 596.4 | 598.9 | 596.7 | 585.6 | 565.1 | 550.6 | 546.9 | 562.0 | 532.6 | 481.5 | 451.5 |
| 77.5°  | 609.4 | 612.8 | 610.7 | 599.5 | 576.6 | 563.3 | 559.9 | 572.9 | 543.2 | 489.3 | 460.5 |
| 78°    | 611.6 | 614.1 | 612.2 | 601.1 | 578.1 | 566.1 | 562.0 | 573.8 | 544.4 | 490.2 | 460.2 |
| 80°    | 610.3 | 611.6 | 611.0 | 601.7 | 577.2 | 565.8 | 559.6 | 571.0 | 541.9 | 486.8 | 456.4 |
| 82.5°  | 603.2 | 604.2 | 604.2 | 596.1 | 567.6 | 559.9 | 554.6 | 567.3 | 537.6 | 484.3 | 460.2 |
| 85°    | 587.4 | 589.3 | 589.9 | 584.0 | 555.8 | 548.1 | 541.9 | 554.0 | 522.1 | 471.0 | 444.4 |
| 87.5°  | 572.3 | 571.9 | 571.9 | 567.3 | 540.7 | 534.8 | 529.2 | 540.4 | 510.9 | 461.1 | 437.6 |
| 90°    | 554.3 | 554.6 | 555.5 | 550.3 | 523.6 | 518.4 | 512.5 | 525.8 | 497.0 | 452.7 | 431.1 |
| 92.5°  | 524.6 | 525.5 | 525.2 | 520.9 | 496.4 | 492.1 | 486.8 | 498.6 | 471.9 | 428.3 | 408.1 |
| 95°    | 474.4 | 476.3 | 475.6 | 472.5 | 453.7 | 446.5 | 441.6 | 454.9 | 430.4 | 391.4 | 375.0 |
| 97.5°  | 414.6 | 417.1 | 416.8 | 413.4 | 397.9 | 395.1 | 389.2 | 402.6 | 382.1 | 349.0 | 335.1 |
| 100°   | 337.5 | 341.9 | 340.0 | 337.8 | 329.8 | 328.6 | 326.7 | 340.3 | 324.8 | 298.5 | 286.1 |
| 102.5° | 238.4 | 242.8 | 240.9 | 240.6 | 237.2 | 241.8 | 241.5 | 254.9 | 244.3 | 224.2 | 214.0 |
| 105°   | 145.9 | 148.0 | 146.5 | 144.6 | 141.5 | 144.6 | 141.2 | 144.0 | 136.6 | 122.3 | 115.5 |
| 107.5° | 87.0  | 88.6  | 87.6  | 85.8  | 83.6  | 83.9  | 81.8  | 82.1  | 77.7  | 70.6  | 66.9  |



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CATALOG NUMBER: MPW-A2-D-U-ASYM

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 3°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 58.5 | 59.1 | 58.8 | 57.0 | 55.7 | 56.0 | 55.1 | 55.1 | 53.6 | 49.9 | 47.4 |
| 112.5° | 43.0 | 43.4 | 43.7 | 41.8 | 41.2 | 41.2 | 41.2 | 41.2 | 40.3 | 38.1 | 36.2 |
| 115°   | 33.1 | 33.4 | 33.4 | 32.2 | 31.6 | 31.9 | 31.9 | 32.2 | 31.9 | 30.3 | 29.1 |
| 117.5° | 26.6 | 26.6 | 26.6 | 25.7 | 25.1 | 25.4 | 25.4 | 25.7 | 25.7 | 24.8 | 23.8 |
| 120°   | 22.3 | 22.6 | 22.6 | 22.0 | 21.4 | 21.4 | 21.4 | 21.4 | 21.7 | 21.1 | 20.1 |
| 122.5° | 20.1 | 20.1 | 20.1 | 19.5 | 18.9 | 18.6 | 18.9 | 18.9 | 18.9 | 18.6 | 18.0 |
| 125°   | 18.3 | 18.3 | 18.3 | 17.7 | 17.0 | 16.7 | 17.0 | 17.0 | 17.3 | 17.0 | 16.4 |
| 127.5° | 15.5 | 15.8 | 15.8 | 15.2 | 14.2 | 14.2 | 14.6 | 14.9 | 15.2 | 15.2 | 14.6 |
| 130°   | 11.5 | 11.8 | 11.8 | 11.5 | 10.5 | 10.5 | 11.1 | 11.5 | 12.1 | 12.1 | 11.5 |
| 132.5° | 7.7  | 7.4  | 7.4  | 7.1  | 6.5  | 6.8  | 7.1  | 7.7  | 8.4  | 8.4  | 8.1  |
| 135°   | 1.2  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 1.5  | 1.5  | 2.2  | 2.5  | 2.5  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.3  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.3  | 0.3  | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.3  | 0.0  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  |
| 177.5° | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  |
| 180°   | 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°     | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  | 29.7  |
| 2.5°   | 34.4  | 33.4  | 31.3  | 29.7  | 27.6  | 26.3  | 24.8  | 23.5  | 22.9  | 22.6  | 22.6  |
| 5°     | 39.6  | 38.1  | 35.3  | 33.4  | 31.0  | 29.4  | 28.2  | 27.3  | 26.6  | 26.6  | 26.6  |
| 7.5°   | 45.8  | 43.7  | 40.3  | 37.2  | 35.0  | 33.4  | 32.2  | 31.0  | 30.0  | 29.7  | 29.4  |
| 10°    | 48.9  | 47.4  | 44.3  | 41.5  | 38.4  | 36.2  | 34.1  | 32.5  | 31.3  | 31.0  | 30.7  |
| 12.5°  | 51.7  | 49.9  | 46.4  | 43.7  | 40.3  | 37.5  | 35.0  | 32.8  | 31.3  | 30.7  | 30.3  |
| 15°    | 55.4  | 53.3  | 49.5  | 45.8  | 42.4  | 39.0  | 36.2  | 33.4  | 31.6  | 31.0  | 30.7  |
| 17.5°  | 58.5  | 56.4  | 52.3  | 48.6  | 44.6  | 40.9  | 37.5  | 34.4  | 32.2  | 31.6  | 31.3  |
| 20°    | 61.3  | 58.8  | 54.5  | 50.8  | 46.1  | 42.1  | 38.1  | 35.0  | 32.5  | 31.6  | 31.6  |
| 22.5°  | 63.8  | 61.3  | 57.0  | 52.6  | 47.7  | 43.0  | 39.0  | 35.3  | 32.8  | 31.9  | 31.6  |
| 25°    | 66.0  | 63.5  | 58.8  | 54.2  | 48.9  | 44.0  | 39.6  | 35.9  | 33.1  | 31.9  | 31.6  |
| 27.5°  | 67.5  | 65.0  | 60.4  | 55.4  | 50.2  | 44.9  | 40.6  | 36.5  | 33.8  | 32.2  | 32.2  |
| 30°    | 68.4  | 66.3  | 61.3  | 56.4  | 51.1  | 45.8  | 41.2  | 37.2  | 34.4  | 32.8  | 32.8  |
| 32.5°  | 68.7  | 66.6  | 61.9  | 57.0  | 52.0  | 46.8  | 42.1  | 38.1  | 35.3  | 33.8  | 33.8  |
| 35°    | 69.4  | 67.2  | 62.9  | 57.9  | 53.0  | 48.0  | 43.4  | 39.3  | 36.5  | 35.3  | 35.0  |
| 37.5°  | 72.2  | 70.0  | 65.0  | 59.8  | 54.5  | 49.5  | 44.9  | 40.9  | 38.1  | 36.9  | 36.9  |
| 40°    | 80.2  | 77.1  | 70.6  | 64.7  | 58.2  | 52.6  | 47.4  | 43.0  | 40.3  | 39.3  | 39.0  |
| 42.5°  | 93.2  | 90.1  | 82.1  | 73.7  | 65.6  | 58.5  | 51.4  | 46.1  | 43.0  | 41.8  | 41.8  |
| 45°    | 113.0 | 109.0 | 98.2  | 88.6  | 77.1  | 67.5  | 57.3  | 50.5  | 46.8  | 45.2  | 44.9  |
| 47.5°  | 138.7 | 133.8 | 120.8 | 106.2 | 92.3  | 79.9  | 65.6  | 56.0  | 51.1  | 48.9  | 48.6  |
| 50°    | 173.1 | 168.1 | 150.5 | 130.4 | 113.3 | 94.4  | 75.9  | 63.2  | 56.0  | 53.0  | 52.3  |
| 52.5°  | 216.8 | 211.5 | 188.3 | 162.3 | 140.3 | 114.3 | 87.9  | 70.9  | 61.9  | 57.9  | 57.3  |
| 55°    | 262.0 | 256.1 | 227.6 | 195.1 | 171.6 | 136.6 | 101.9 | 81.8  | 69.7  | 63.8  | 62.6  |
| 57.5°  | 293.9 | 287.4 | 255.8 | 219.6 | 196.9 | 153.9 | 115.8 | 92.3  | 78.7  | 70.6  | 70.0  |
| 60°    | 317.1 | 310.3 | 276.5 | 240.3 | 214.3 | 166.9 | 128.2 | 101.0 | 87.0  | 79.3  | 79.0  |
| 62.5°  | 337.8 | 332.3 | 295.1 | 258.9 | 227.9 | 177.7 | 139.3 | 111.5 | 95.1  | 86.1  | 83.6  |
| 65°    | 360.1 | 351.2 | 311.5 | 275.3 | 243.1 | 190.1 | 146.2 | 121.1 | 102.2 | 92.3  | 90.1  |
| 67.5°  | 379.0 | 369.4 | 332.0 | 295.1 | 257.6 | 200.0 | 155.1 | 129.7 | 110.9 | 98.5  | 97.9  |
| 70°    | 402.6 | 391.7 | 346.8 | 310.3 | 271.3 | 212.7 | 164.1 | 135.0 | 115.8 | 103.7 | 100.0 |
| 72.5°  | 416.2 | 404.7 | 361.7 | 325.8 | 281.2 | 223.3 | 170.3 | 137.5 | 119.2 | 106.2 | 102.5 |
| 75°    | 431.7 | 419.3 | 369.4 | 337.2 | 291.1 | 231.3 | 175.9 | 141.2 | 121.7 | 107.1 | 103.7 |
| 77.5°  | 438.5 | 425.5 | 381.5 | 345.3 | 299.8 | 236.3 | 179.9 | 144.6 | 122.0 | 107.1 | 106.2 |
| 78°    | 438.5 | 424.9 | 379.3 | 346.5 | 299.1 | 236.6 | 180.5 | 145.9 | 122.3 | 106.2 | 105.3 |
| 80°    | 435.7 | 422.1 | 375.9 | 345.9 | 297.0 | 236.0 | 181.2 | 148.0 | 121.1 | 105.0 | 105.6 |
| 82.5°  | 436.3 | 424.5 | 374.7 | 344.0 | 296.0 | 235.7 | 179.6 | 145.9 | 118.9 | 102.5 | 103.4 |
| 85°    | 420.2 | 409.1 | 364.5 | 335.1 | 287.7 | 232.6 | 177.4 | 143.1 | 117.7 | 100.6 | 101.6 |
| 87.5°  | 415.6 | 404.1 | 356.4 | 329.2 | 280.2 | 226.4 | 174.0 | 140.9 | 114.9 | 98.5  | 99.7  |
| 90°    | 406.9 | 395.8 | 346.8 | 319.3 | 272.2 | 218.3 | 166.0 | 134.4 | 110.6 | 94.4  | 95.1  |
| 92.5°  | 384.6 | 374.4 | 327.9 | 301.9 | 257.6 | 208.4 | 157.9 | 127.6 | 104.4 | 89.8  | 89.8  |
| 95°    | 356.1 | 347.1 | 303.5 | 280.6 | 238.8 | 191.7 | 145.2 | 117.4 | 95.4  | 82.4  | 81.8  |
| 97.5°  | 316.8 | 308.4 | 270.3 | 249.0 | 213.0 | 170.0 | 127.0 | 101.9 | 82.4  | 69.7  | 69.7  |
| 100°   | 266.0 | 262.6 | 227.6 | 208.7 | 177.1 | 139.0 | 104.4 | 81.8  | 66.6  | 55.7  | 54.8  |
| 102.5° | 198.8 | 191.7 | 163.2 | 147.7 | 125.1 | 96.6  | 71.5  | 56.7  | 47.7  | 40.3  | 38.7  |
| 105°   | 103.7 | 105.3 | 87.6  | 80.5  | 69.1  | 55.7  | 43.4  | 35.3  | 30.0  | 26.3  | 25.1  |
| 107.5° | 61.9  | 60.4  | 53.0  | 48.3  | 42.1  | 34.4  | 27.6  | 22.9  | 19.8  | 17.7  | 17.0  |



REPORT NUMBER: P314606

CATALOG NUMBER: MPW-A2-D-U-ASYM

**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 44.3 | 43.7 | 38.1 | 34.4 | 30.0 | 24.5 | 19.5 | 16.4 | 14.2 | 12.7 | 12.4 |
| 112.5° | 34.1 | 33.4 | 29.4 | 26.3 | 22.6 | 18.3 | 14.6 | 12.1 | 10.5 | 9.3  | 9.3  |
| 115°   | 27.6 | 26.9 | 23.8 | 20.7 | 17.7 | 14.2 | 11.5 | 9.3  | 8.1  | 7.1  | 7.1  |
| 117.5° | 22.6 | 22.0 | 19.2 | 17.0 | 14.2 | 11.5 | 9.0  | 7.4  | 6.2  | 5.6  | 5.6  |
| 120°   | 19.2 | 18.6 | 16.4 | 14.2 | 11.8 | 9.6  | 7.4  | 5.9  | 5.3  | 4.6  | 4.6  |
| 122.5° | 17.3 | 16.4 | 14.6 | 12.4 | 10.2 | 8.1  | 6.2  | 5.0  | 4.3  | 3.7  | 3.7  |
| 125°   | 15.8 | 15.2 | 13.3 | 11.1 | 8.7  | 7.1  | 5.3  | 4.0  | 3.4  | 3.1  | 2.8  |
| 127.5° | 13.9 | 13.3 | 11.5 | 9.3  | 7.1  | 5.6  | 4.0  | 3.1  | 2.2  | 1.9  | 1.9  |
| 130°   | 11.1 | 10.2 | 8.7  | 6.8  | 5.0  | 3.7  | 2.8  | 1.9  | 1.2  | 1.2  | 0.9  |
| 132.5° | 7.7  | 7.1  | 5.9  | 4.3  | 2.8  | 1.9  | 1.2  | 0.9  | 0.3  | 0.3  | 0.3  |
| 135°   | 2.5  | 2.2  | 1.2  | 1.2  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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)