

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: P314552

Luminaire Tested: **MPN-A2-D-U-SYM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MPN-A2-D-U-SYM  
Description: NEW HAVEN POST TOP LUMINAIRE  
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1861 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

Input Watts (W): 17.6  
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

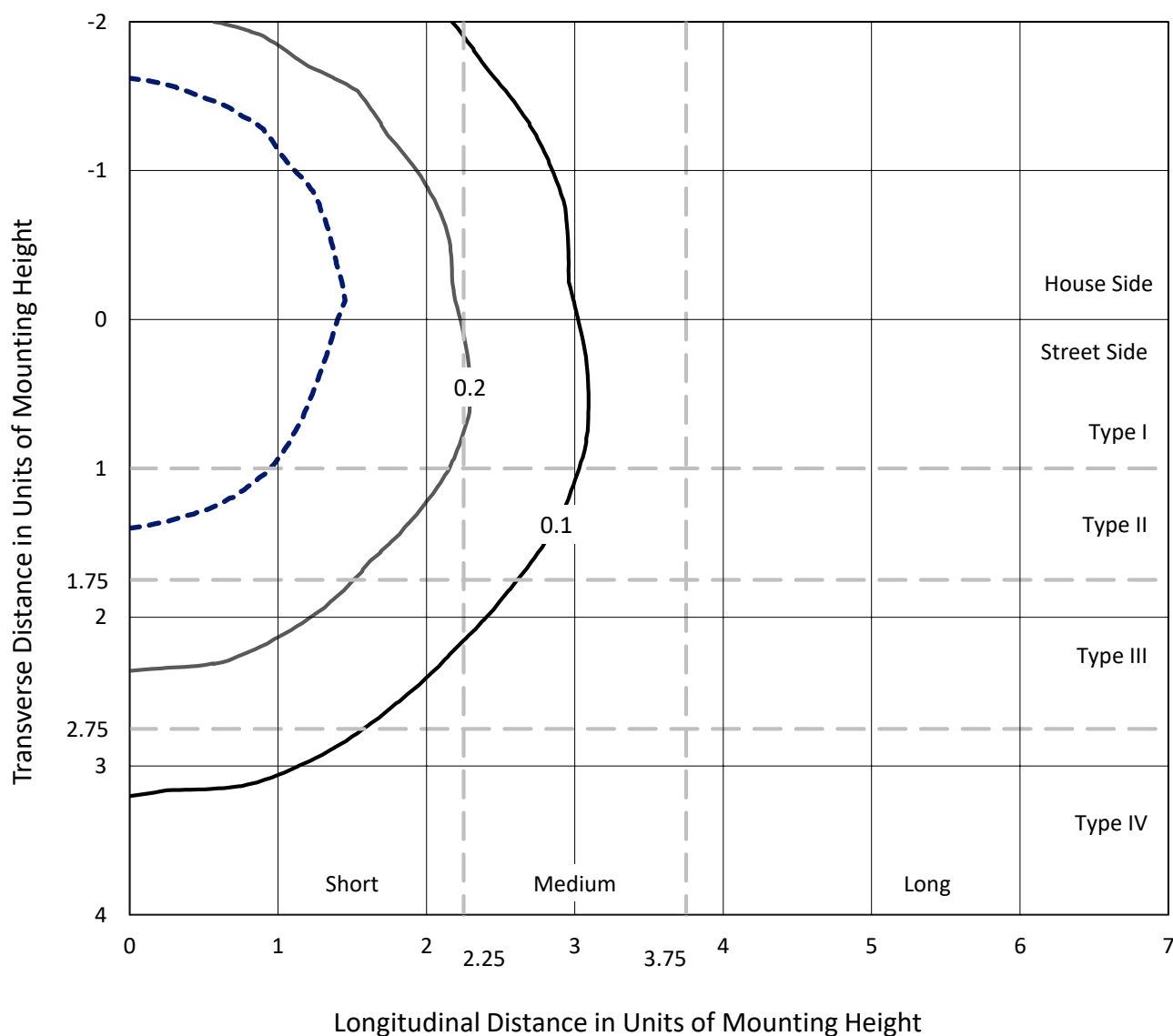


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

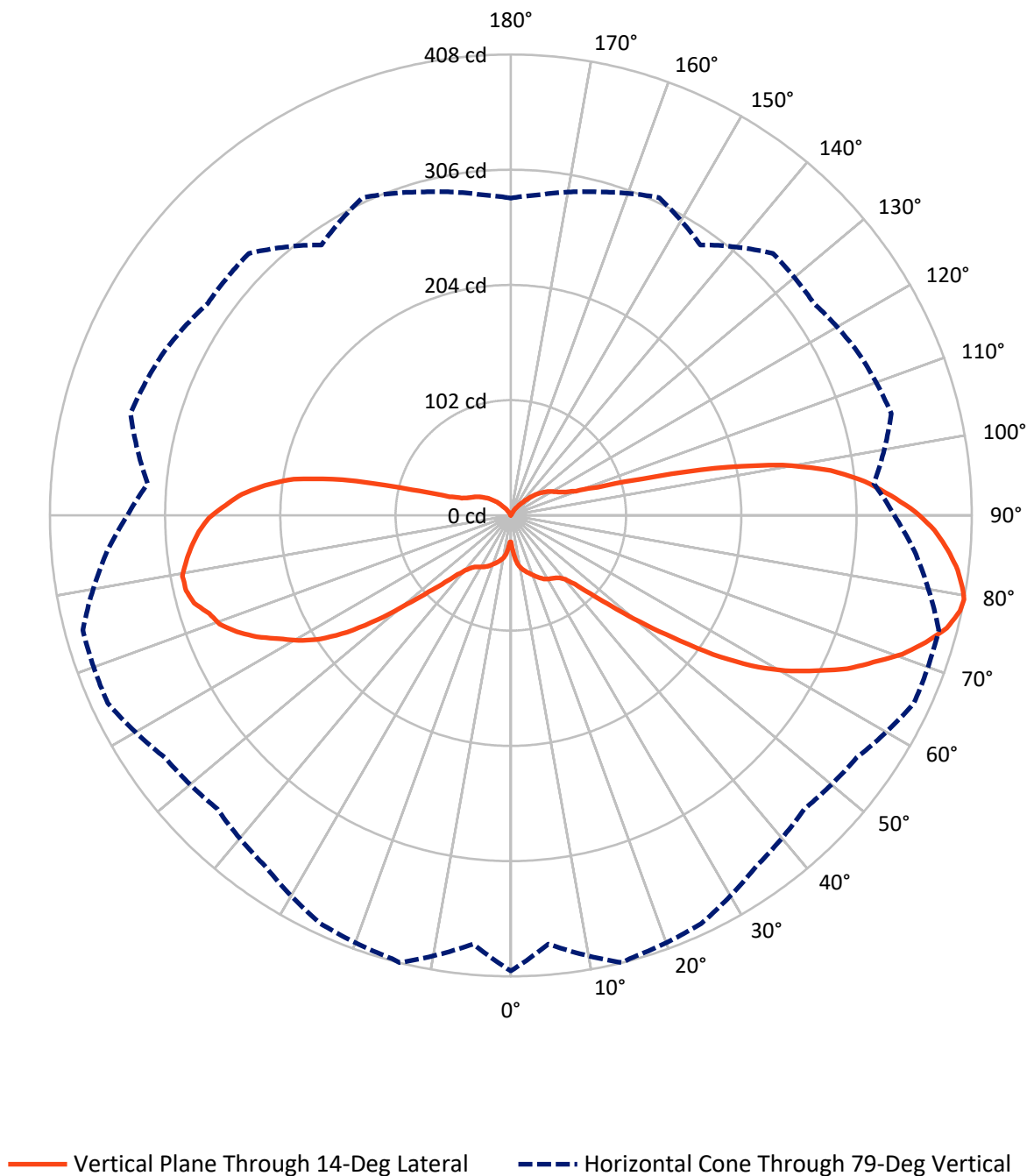


Based on 10 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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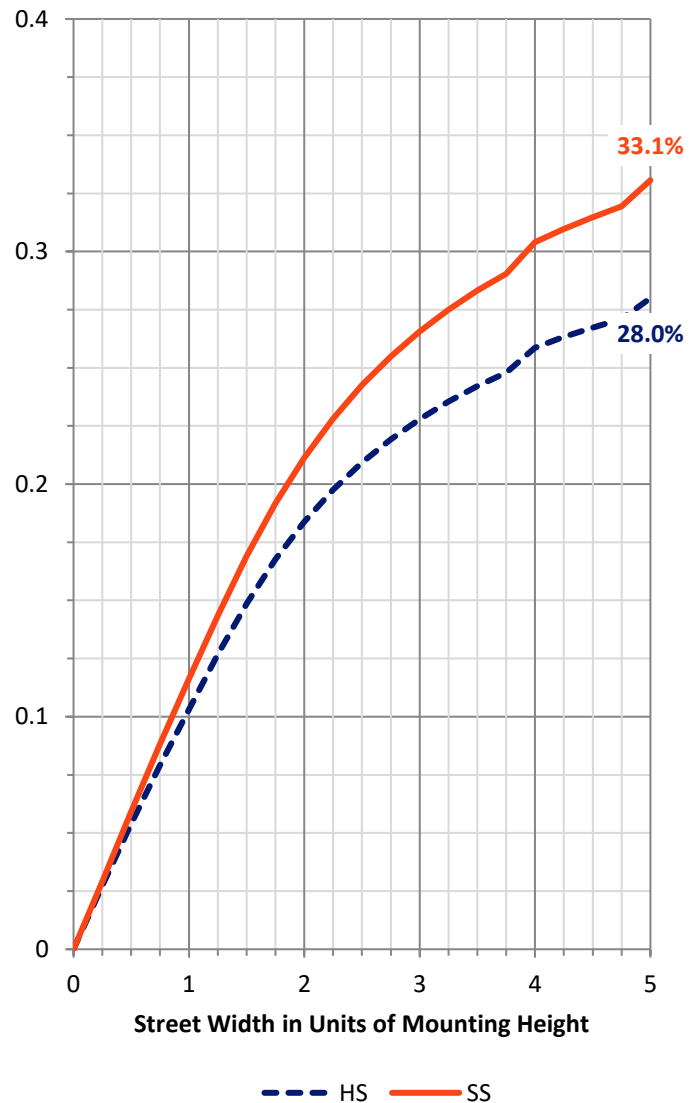
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 613.3    | 233.8  | 847.1  |
|                    | % Fixture | 33.0     | 12.6   | 45.5   |
| <b>Street Side</b> | Lumens    | 733.7    | 280.2  | 1013.9 |
|                    | % Fixture | 39.4     | 15.1   | 54.5   |
| <b>Total</b>       | Lumens    | 1347.0   | 514.0  | 1861.0 |
|                    | % Fixture | 72.4     | 27.6   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.4    | 0.2       |
| 10°-20°   | 13.3   | 0.7       |
| 20°-30°   | 26.0   | 1.4       |
| 30°-40°   | 39.6   | 2.1       |
| 40°-50°   | 74.7   | 4.0       |
| 50°-60°   | 180.3  | 9.7       |
| 60°-70°   | 287.1  | 15.4      |
| 70°-80°   | 360.1  | 19.3      |
| 80°-90°   | 362.4  | 19.5      |
| 90°-100°  | 297.1  | 16.0      |
| 100°-110° | 125.5  | 6.7       |
| 110°-120° | 43.5   | 2.3       |
| 120°-130° | 29.0   | 1.6       |
| 130°-140° | 14.4   | 0.8       |
| 140°-150° | 4.2    | 0.2       |
| 150°-160° | 0.2    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 1347.0 | 72.4      |
| 0°-180°   | 1861.0 | 100.0     |

**Coefficient of Utilization**



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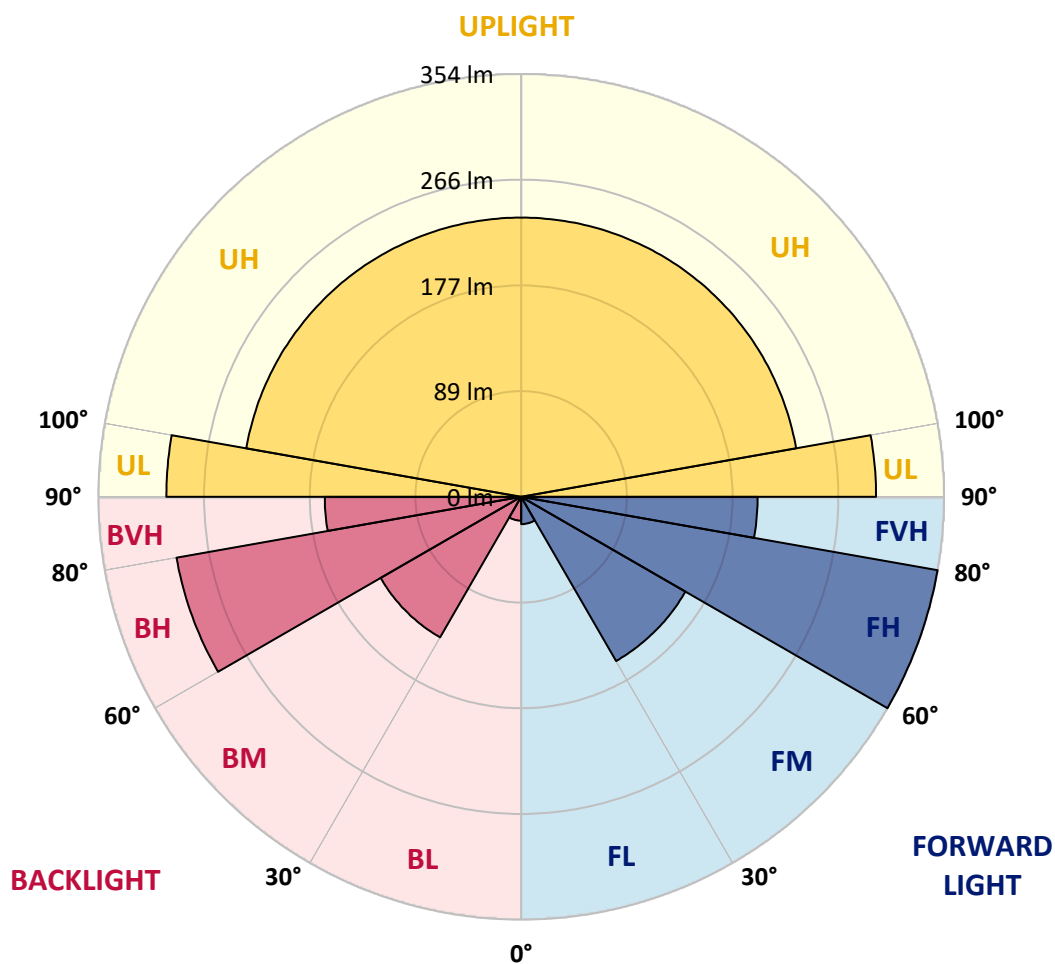
CATALOG NUMBER: MPN-A2-D-U-SYM

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 22.9   | 1.2       |                         |        |        |
| FM   | (30°-60°)   | 158.8  | 8.5       |                         |        |        |
| FH   | (60°-80°)   | 354.1  | 19.0      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 198.0  | 10.6      |                         |        | G2/225 |
| BL   | (0°-30°)    | 19.9   | 1.1       | B0/110                  |        |        |
| BM   | (30°-60°)   | 135.9  | 7.3       | B0/220                  |        |        |
| BH   | (60°-80°)   | 293.1  | 15.7      | B1/500                  |        | G0/660 |
| BVH  | (80°-90°)   | 164.5  | 8.8       |                         |        | G2/225 |
| UL   | (90°-100°)  | 297.1  | 16.0      |                         | U3/500 |        |
| UH   | (100°-180°) | 233.8  | 12.6      |                         | U3/500 |        |

**BUG Rating: B1-U3-G2**

Type V Short



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CATALOG NUMBER: MPN-A2-D-U-SYM

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 14°   | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  |
| 2.5°   | 31.3  | 30.4  | 30.4  | 30.7  | 30.7  | 29.5  | 28.6  | 28.6  | 28.0  | 27.4  | 26.2  |
| 5°     | 38.2  | 37.6  | 37.6  | 37.6  | 37.6  | 37.9  | 37.0  | 36.4  | 35.2  | 34.6  | 33.7  |
| 7.5°   | 43.5  | 43.2  | 43.2  | 43.5  | 43.2  | 42.9  | 42.0  | 42.0  | 40.9  | 40.3  | 39.4  |
| 10°    | 47.4  | 47.1  | 47.1  | 47.1  | 46.5  | 45.9  | 45.3  | 45.0  | 44.1  | 43.2  | 42.3  |
| 12.5°  | 49.5  | 49.2  | 49.5  | 49.5  | 48.9  | 47.7  | 47.4  | 47.1  | 46.5  | 45.6  | 44.4  |
| 15°    | 51.9  | 51.6  | 51.9  | 51.9  | 51.0  | 50.4  | 49.8  | 49.5  | 48.9  | 48.3  | 47.1  |
| 17.5°  | 54.3  | 54.0  | 54.0  | 54.0  | 53.7  | 52.5  | 51.9  | 52.2  | 51.3  | 50.4  | 49.5  |
| 20°    | 57.0  | 56.7  | 56.4  | 56.4  | 56.1  | 54.9  | 54.6  | 54.3  | 53.7  | 52.8  | 51.9  |
| 22.5°  | 59.9  | 59.3  | 59.0  | 59.0  | 58.7  | 57.6  | 57.6  | 57.3  | 56.4  | 55.5  | 54.9  |
| 25°    | 62.9  | 62.6  | 61.4  | 61.4  | 61.1  | 60.2  | 60.5  | 59.9  | 59.0  | 57.9  | 57.6  |
| 27.5°  | 65.3  | 64.7  | 63.5  | 63.5  | 63.2  | 62.3  | 62.6  | 62.0  | 60.8  | 59.9  | 59.6  |
| 30°    | 66.8  | 66.5  | 65.3  | 65.3  | 64.4  | 64.1  | 64.1  | 63.2  | 62.0  | 61.1  | 61.4  |
| 32.5°  | 67.7  | 67.7  | 66.2  | 66.2  | 65.6  | 65.3  | 65.0  | 64.4  | 62.9  | 62.0  | 62.3  |
| 35°    | 69.2  | 68.9  | 67.7  | 67.7  | 66.8  | 66.8  | 66.2  | 65.3  | 63.5  | 63.2  | 63.5  |
| 37.5°  | 71.0  | 70.7  | 69.8  | 69.8  | 68.3  | 68.9  | 68.0  | 67.4  | 65.6  | 65.3  | 65.0  |
| 40°    | 75.2  | 75.2  | 74.3  | 74.3  | 72.5  | 74.0  | 73.1  | 73.4  | 71.6  | 71.3  | 70.1  |
| 42.5°  | 82.9  | 82.9  | 83.2  | 83.5  | 82.0  | 83.5  | 83.2  | 84.7  | 83.2  | 82.0  | 80.2  |
| 45°    | 98.1  | 96.9  | 98.7  | 98.1  | 97.2  | 98.7  | 98.1  | 100.2 | 99.6  | 98.1  | 96.3  |
| 47.5°  | 116.9 | 119.3 | 120.2 | 120.2 | 118.4 | 120.2 | 119.6 | 122.0 | 123.2 | 121.4 | 116.6 |
| 50°    | 142.8 | 145.2 | 147.9 | 147.9 | 146.4 | 147.0 | 146.7 | 150.3 | 151.8 | 152.1 | 145.5 |
| 52.5°  | 173.3 | 175.6 | 181.3 | 181.3 | 178.9 | 180.7 | 181.3 | 188.2 | 192.9 | 192.3 | 181.0 |
| 55°    | 209.0 | 212.6 | 218.3 | 218.3 | 214.1 | 215.3 | 215.9 | 224.6 | 234.1 | 232.9 | 218.3 |
| 57.5°  | 243.9 | 247.2 | 253.2 | 253.2 | 248.1 | 246.6 | 241.9 | 252.0 | 264.2 | 263.6 | 242.2 |
| 60°    | 272.6 | 275.0 | 281.2 | 281.2 | 276.1 | 273.2 | 263.0 | 273.8 | 287.8 | 288.7 | 263.6 |
| 62.5°  | 297.9 | 299.1 | 304.8 | 304.8 | 299.1 | 295.8 | 283.3 | 294.6 | 308.4 | 309.5 | 282.4 |
| 65°    | 320.3 | 318.5 | 328.0 | 328.0 | 320.0 | 314.9 | 303.0 | 315.2 | 328.3 | 329.2 | 298.5 |
| 67.5°  | 340.3 | 336.7 | 348.6 | 348.6 | 339.7 | 331.9 | 320.6 | 329.8 | 344.1 | 343.5 | 316.4 |
| 70°    | 358.2 | 353.4 | 368.9 | 368.9 | 357.0 | 346.5 | 340.0 | 345.3 | 361.4 | 361.7 | 331.9 |
| 72.5°  | 376.3 | 367.4 | 384.4 | 384.4 | 374.3 | 359.1 | 351.0 | 357.9 | 373.7 | 372.2 | 344.1 |
| 75°    | 390.7 | 374.9 | 397.5 | 397.5 | 388.3 | 369.8 | 362.0 | 367.4 | 386.2 | 385.6 | 352.5 |
| 77.5°  | 404.4 | 381.7 | 405.6 | 405.6 | 397.2 | 377.2 | 367.7 | 375.2 | 393.0 | 392.8 | 359.9 |
| 79°    | 403.2 | 380.8 | 406.2 | 406.2 | 398.7 | 379.0 | 367.4 | 373.7 | 393.6 | 392.2 | 358.5 |
| 80°    | 402.0 | 378.1 | 404.4 | 404.4 | 396.3 | 376.9 | 363.2 | 368.3 | 388.3 | 387.4 | 353.7 |
| 82.5°  | 393.6 | 371.6 | 396.6 | 396.6 | 389.8 | 372.2 | 359.1 | 363.8 | 387.4 | 384.4 | 349.2 |
| 85°    | 382.3 | 361.4 | 386.2 | 386.2 | 379.6 | 362.6 | 347.4 | 351.3 | 372.2 | 371.6 | 338.8 |
| 87.5°  | 367.7 | 348.6 | 373.4 | 373.4 | 367.4 | 351.9 | 336.7 | 341.2 | 362.3 | 362.0 | 327.4 |
| 90°    | 353.7 | 335.2 | 357.6 | 357.6 | 351.6 | 337.3 | 324.2 | 331.0 | 352.8 | 351.6 | 317.3 |
| 92.5°  | 332.5 | 315.8 | 337.0 | 337.0 | 331.3 | 319.4 | 307.2 | 312.8 | 329.8 | 329.5 | 297.9 |
| 95°    | 311.0 | 295.5 | 314.6 | 314.6 | 309.2 | 298.8 | 286.3 | 290.5 | 307.2 | 309.8 | 279.4 |
| 97.5°  | 282.7 | 269.0 | 286.6 | 286.6 | 282.4 | 273.5 | 262.7 | 268.1 | 284.2 | 286.9 | 259.1 |
| 100°   | 238.9 | 229.6 | 246.0 | 246.0 | 242.7 | 237.4 | 229.9 | 237.7 | 251.7 | 254.7 | 230.5 |
| 102.5° | 174.8 | 172.1 | 184.6 | 184.6 | 183.4 | 181.9 | 180.1 | 184.3 | 193.5 | 198.0 | 173.3 |
| 105°   | 118.7 | 114.2 | 120.8 | 120.8 | 118.4 | 114.5 | 110.0 | 109.7 | 112.1 | 110.3 | 98.1  |
| 107.5° | 79.9  | 78.1  | 81.1  | 81.1  | 79.3  | 76.0  | 71.9  | 71.6  | 73.7  | 72.5  | 65.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 14°  | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 60.8 | 59.9 | 61.4 | 61.7 | 60.8 | 58.2 | 56.1 | 56.1 | 58.2 | 57.3 | 53.1 |
| 112.5° | 52.8 | 52.2 | 53.1 | 53.1 | 52.5 | 49.8 | 48.6 | 49.5 | 51.3 | 51.0 | 47.4 |
| 115°   | 48.0 | 47.7 | 48.0 | 48.3 | 47.4 | 45.0 | 44.4 | 45.3 | 47.1 | 46.8 | 43.8 |
| 117.5° | 44.7 | 44.4 | 44.4 | 44.7 | 43.8 | 41.8 | 41.5 | 42.3 | 44.1 | 43.8 | 41.2 |
| 120°   | 41.8 | 41.8 | 41.8 | 41.8 | 41.2 | 39.4 | 39.1 | 40.3 | 41.8 | 41.5 | 39.1 |
| 122.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.2 | 37.0 | 37.0 | 38.2 | 39.4 | 39.1 | 37.0 |
| 125°   | 35.5 | 35.5 | 35.2 | 35.5 | 34.9 | 34.3 | 34.3 | 35.5 | 36.4 | 36.4 | 34.6 |
| 127.5° | 32.2 | 32.2 | 31.6 | 31.9 | 31.3 | 31.0 | 31.3 | 32.5 | 33.4 | 33.4 | 32.2 |
| 130°   | 28.6 | 28.3 | 27.7 | 28.0 | 27.4 | 27.4 | 28.0 | 29.2 | 29.8 | 30.1 | 28.9 |
| 132.5° | 24.5 | 24.2 | 23.6 | 23.6 | 23.6 | 23.6 | 24.2 | 25.1 | 25.9 | 25.9 | 25.3 |
| 135°   | 20.3 | 20.0 | 19.4 | 19.4 | 19.4 | 19.1 | 20.0 | 20.9 | 21.5 | 21.5 | 20.9 |
| 137.5° | 15.8 | 15.8 | 15.2 | 15.5 | 15.2 | 14.9 | 15.5 | 16.1 | 16.4 | 16.7 | 16.1 |
| 140°   | 12.5 | 12.5 | 12.2 | 11.9 | 11.6 | 11.3 | 11.6 | 11.9 | 12.2 | 12.5 | 12.2 |
| 142.5° | 9.8  | 9.8  | 9.5  | 9.5  | 9.2  | 8.9  | 8.9  | 9.2  | 9.8  | 9.8  | 9.5  |
| 145°   | 7.5  | 7.5  | 7.5  | 7.2  | 6.9  | 6.9  | 6.9  | 7.2  | 7.5  | 7.5  | 7.5  |
| 147.5° | 5.4  | 5.1  | 5.1  | 5.1  | 4.8  | 4.8  | 5.1  | 5.1  | 5.4  | 5.4  | 5.4  |
| 150°   | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 3.0  | 3.0  | 3.3  | 3.3  | 3.0  |
| 152.5° | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.6  |
| 155°   | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  |
| 167.5° | 0.3  | 0.0  | 0.3  | 0.3  | 0.3  | 0.0  | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 172.5° | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  |
| 177.5° | 0.3  | 0.0  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  |
| 180°   | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  | 23.6  |
| 2.5°   | 25.9  | 25.6  | 25.1  | 25.3  | 24.5  | 24.2  | 23.9  | 23.6  | 23.6  | 23.6  | 23.3  |
| 5°     | 33.1  | 32.5  | 31.0  | 30.4  | 30.4  | 29.8  | 29.8  | 29.5  | 29.5  | 29.5  | 29.5  |
| 7.5°   | 38.8  | 38.5  | 37.0  | 35.8  | 35.2  | 34.9  | 34.9  | 34.6  | 34.6  | 34.3  | 34.0  |
| 10°    | 41.8  | 41.2  | 40.3  | 39.7  | 39.1  | 38.5  | 37.9  | 38.2  | 37.9  | 37.3  | 37.3  |
| 12.5°  | 44.1  | 43.5  | 42.6  | 42.0  | 41.5  | 40.6  | 40.3  | 40.3  | 40.0  | 39.1  | 39.1  |
| 15°    | 46.5  | 45.9  | 45.3  | 44.4  | 43.8  | 42.9  | 42.3  | 42.3  | 42.0  | 41.2  | 40.9  |
| 17.5°  | 48.9  | 48.6  | 47.7  | 46.8  | 46.2  | 45.3  | 44.4  | 44.1  | 43.8  | 43.2  | 42.9  |
| 20°    | 51.6  | 51.0  | 50.1  | 49.2  | 48.3  | 47.7  | 46.8  | 45.9  | 45.6  | 45.3  | 45.0  |
| 22.5°  | 54.6  | 53.7  | 52.8  | 51.6  | 50.7  | 50.4  | 48.9  | 48.0  | 47.7  | 47.1  | 47.1  |
| 25°    | 57.3  | 56.1  | 55.2  | 54.3  | 53.1  | 52.8  | 51.3  | 50.1  | 49.5  | 49.2  | 49.2  |
| 27.5°  | 59.3  | 58.2  | 57.3  | 56.4  | 55.2  | 54.9  | 53.1  | 51.9  | 51.0  | 51.0  | 51.3  |
| 30°    | 60.8  | 59.9  | 59.0  | 57.9  | 57.3  | 57.0  | 54.9  | 53.4  | 52.5  | 52.8  | 52.8  |
| 32.5°  | 62.0  | 61.1  | 60.2  | 59.0  | 58.5  | 58.2  | 56.4  | 54.6  | 53.7  | 54.0  | 54.0  |
| 35°    | 62.9  | 62.3  | 61.4  | 60.2  | 59.9  | 59.3  | 57.6  | 55.8  | 55.2  | 55.8  | 55.5  |
| 37.5°  | 64.7  | 63.8  | 62.9  | 61.4  | 62.0  | 61.1  | 59.6  | 57.9  | 57.9  | 58.7  | 58.5  |
| 40°    | 69.2  | 68.0  | 66.8  | 65.0  | 65.3  | 65.0  | 64.1  | 62.6  | 62.6  | 63.8  | 63.5  |
| 42.5°  | 78.4  | 76.6  | 74.6  | 72.2  | 72.2  | 71.6  | 70.4  | 69.8  | 70.1  | 71.0  | 71.0  |
| 45°    | 92.4  | 89.2  | 87.7  | 84.7  | 84.1  | 83.5  | 82.3  | 81.1  | 82.9  | 82.6  | 83.2  |
| 47.5°  | 112.4 | 108.0 | 106.2 | 102.3 | 101.7 | 101.4 | 99.6  | 98.4  | 99.0  | 99.6  | 101.1 |
| 50°    | 139.6 | 133.0 | 130.9 | 127.0 | 126.1 | 125.0 | 121.4 | 119.9 | 121.1 | 122.0 | 123.2 |
| 52.5°  | 175.1 | 163.7 | 163.1 | 159.5 | 154.5 | 156.6 | 151.8 | 149.4 | 150.3 | 150.0 | 151.5 |
| 55°    | 210.2 | 197.1 | 198.6 | 193.8 | 187.0 | 189.4 | 180.1 | 179.8 | 178.3 | 177.1 | 177.7 |
| 57.5°  | 234.7 | 221.9 | 227.8 | 221.9 | 213.2 | 215.6 | 203.4 | 201.9 | 201.3 | 197.7 | 196.5 |
| 60°    | 253.5 | 240.4 | 249.3 | 241.0 | 231.4 | 237.7 | 220.4 | 221.6 | 218.6 | 214.7 | 212.0 |
| 62.5°  | 270.2 | 256.8 | 267.5 | 258.0 | 247.5 | 254.1 | 234.7 | 238.6 | 232.6 | 229.3 | 224.6 |
| 65°    | 286.0 | 273.5 | 284.5 | 275.8 | 261.8 | 271.1 | 249.0 | 256.2 | 249.9 | 243.9 | 239.5 |
| 67.5°  | 301.2 | 289.0 | 301.8 | 293.1 | 277.9 | 286.9 | 260.0 | 270.8 | 264.2 | 257.7 | 252.3 |
| 70°    | 314.0 | 301.2 | 316.1 | 308.1 | 291.7 | 297.6 | 265.7 | 284.8 | 275.6 | 269.6 | 262.1 |
| 72.5°  | 325.9 | 311.0 | 329.5 | 322.1 | 304.8 | 309.8 | 274.1 | 295.8 | 281.2 | 275.6 | 270.2 |
| 75°    | 333.7 | 317.3 | 340.6 | 331.9 | 317.9 | 320.6 | 284.2 | 304.5 | 291.7 | 282.4 | 278.2 |
| 77.5°  | 340.9 | 323.0 | 347.4 | 337.3 | 324.5 | 325.9 | 290.8 | 310.4 | 296.1 | 285.7 | 280.3 |
| 79°    | 339.4 | 322.7 | 348.6 | 339.7 | 327.4 | 328.0 | 292.3 | 310.4 | 296.4 | 284.8 | 280.9 |
| 80°    | 335.8 | 320.0 | 345.6 | 335.5 | 323.3 | 324.2 | 290.8 | 308.1 | 297.3 | 281.5 | 277.9 |
| 82.5°  | 331.9 | 315.5 | 341.2 | 331.9 | 319.7 | 318.8 | 288.7 | 304.5 | 291.4 | 278.5 | 274.7 |
| 85°    | 321.8 | 307.5 | 331.6 | 322.4 | 312.2 | 310.7 | 282.1 | 296.7 | 285.4 | 269.3 | 266.0 |
| 87.5°  | 312.2 | 298.2 | 322.7 | 313.7 | 303.9 | 302.7 | 276.7 | 291.4 | 278.5 | 261.2 | 259.4 |
| 90°    | 301.8 | 287.5 | 310.4 | 301.5 | 290.5 | 288.4 | 264.8 | 279.4 | 269.0 | 252.3 | 250.5 |
| 92.5°  | 283.0 | 270.2 | 292.0 | 284.2 | 275.0 | 273.5 | 250.8 | 264.2 | 254.4 | 239.5 | 237.7 |
| 95°    | 266.0 | 253.8 | 273.2 | 266.6 | 258.0 | 257.7 | 235.3 | 249.6 | 240.1 | 226.6 | 225.7 |
| 97.5°  | 247.5 | 235.6 | 252.3 | 246.3 | 237.7 | 236.8 | 215.9 | 228.7 | 220.4 | 208.2 | 207.3 |
| 100°   | 218.3 | 208.2 | 219.2 | 214.7 | 204.6 | 207.3 | 188.8 | 202.5 | 195.9 | 185.2 | 183.1 |
| 102.5° | 163.7 | 155.7 | 159.2 | 155.7 | 146.7 | 150.6 | 141.1 | 155.7 | 153.0 | 147.0 | 145.2 |
| 105°   | 92.7  | 90.4  | 92.7  | 91.6  | 88.3  | 87.4  | 82.6  | 92.4  | 90.4  | 88.3  | 87.1  |
| 107.5° | 62.6  | 60.8  | 62.9  | 62.0  | 58.2  | 57.9  | 54.3  | 58.7  | 56.7  | 54.9  | 54.0  |



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CATALOG NUMBER: MPN-A2-D-U-SYM

**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 51.0 | 49.5 | 51.0 | 50.7 | 48.0 | 47.1 | 44.4 | 47.4 | 45.9 | 44.4 | 43.8 |
| 112.5° | 45.6 | 44.4 | 45.6 | 45.3 | 42.6 | 42.3 | 40.3 | 42.6 | 41.5 | 40.3 | 40.0 |
| 115°   | 42.3 | 41.2 | 42.0 | 41.8 | 39.4 | 39.1 | 37.3 | 39.4 | 38.5 | 37.3 | 37.0 |
| 117.5° | 40.0 | 38.8 | 39.4 | 38.8 | 37.0 | 36.4 | 34.9 | 36.7 | 36.1 | 34.6 | 34.3 |
| 120°   | 37.9 | 36.7 | 37.3 | 36.4 | 34.6 | 34.0 | 32.8 | 34.0 | 33.4 | 32.5 | 32.2 |
| 122.5° | 36.1 | 34.9 | 35.2 | 34.0 | 32.2 | 31.3 | 30.4 | 31.0 | 30.7 | 29.8 | 29.5 |
| 125°   | 33.7 | 32.5 | 32.5 | 31.3 | 29.2 | 28.6 | 27.7 | 28.0 | 27.7 | 27.4 | 27.1 |
| 127.5° | 31.0 | 30.1 | 29.5 | 28.3 | 26.5 | 25.3 | 24.8 | 25.1 | 25.1 | 24.8 | 24.5 |
| 130°   | 28.0 | 27.1 | 25.9 | 24.8 | 23.3 | 22.4 | 21.5 | 22.1 | 22.1 | 22.1 | 22.1 |
| 132.5° | 24.5 | 23.6 | 22.4 | 21.2 | 19.7 | 19.1 | 18.2 | 18.8 | 19.1 | 19.4 | 19.1 |
| 135°   | 20.3 | 19.7 | 18.5 | 17.3 | 16.1 | 15.2 | 14.9 | 15.5 | 16.1 | 16.1 | 15.8 |
| 137.5° | 15.8 | 15.2 | 14.6 | 13.7 | 12.5 | 11.9 | 11.6 | 12.2 | 12.8 | 12.8 | 12.5 |
| 140°   | 11.9 | 11.9 | 11.3 | 10.4 | 9.2  | 8.9  | 8.9  | 9.2  | 9.5  | 9.5  | 9.2  |
| 142.5° | 9.2  | 9.2  | 8.6  | 8.1  | 7.2  | 6.9  | 6.9  | 7.2  | 7.5  | 7.5  | 7.2  |
| 145°   | 7.2  | 7.2  | 6.6  | 6.0  | 5.4  | 5.1  | 5.1  | 5.4  | 5.7  | 5.7  | 5.4  |
| 147.5° | 5.4  | 5.1  | 4.5  | 4.2  | 3.6  | 3.6  | 3.6  | 3.6  | 3.9  | 3.9  | 3.9  |
| 150°   | 3.0  | 3.0  | 2.7  | 2.1  | 1.8  | 1.8  | 1.8  | 2.1  | 2.4  | 2.4  | 2.1  |
| 152.5° | 0.6  | 0.6  | 0.6  | 0.6  | 0.3  | 0.0  | 0.3  | 0.3  | 0.3  | 0.3  | 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  | 0.3  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  |
| 180°   | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  |

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