

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: P212579

Luminaire Tested: **MPB-AF-D-U-ASYM-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P212579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25987)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MPB-AF-D-U-ASYM-7050-800  
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3602 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.62')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3

Input Watts (W): 44  
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

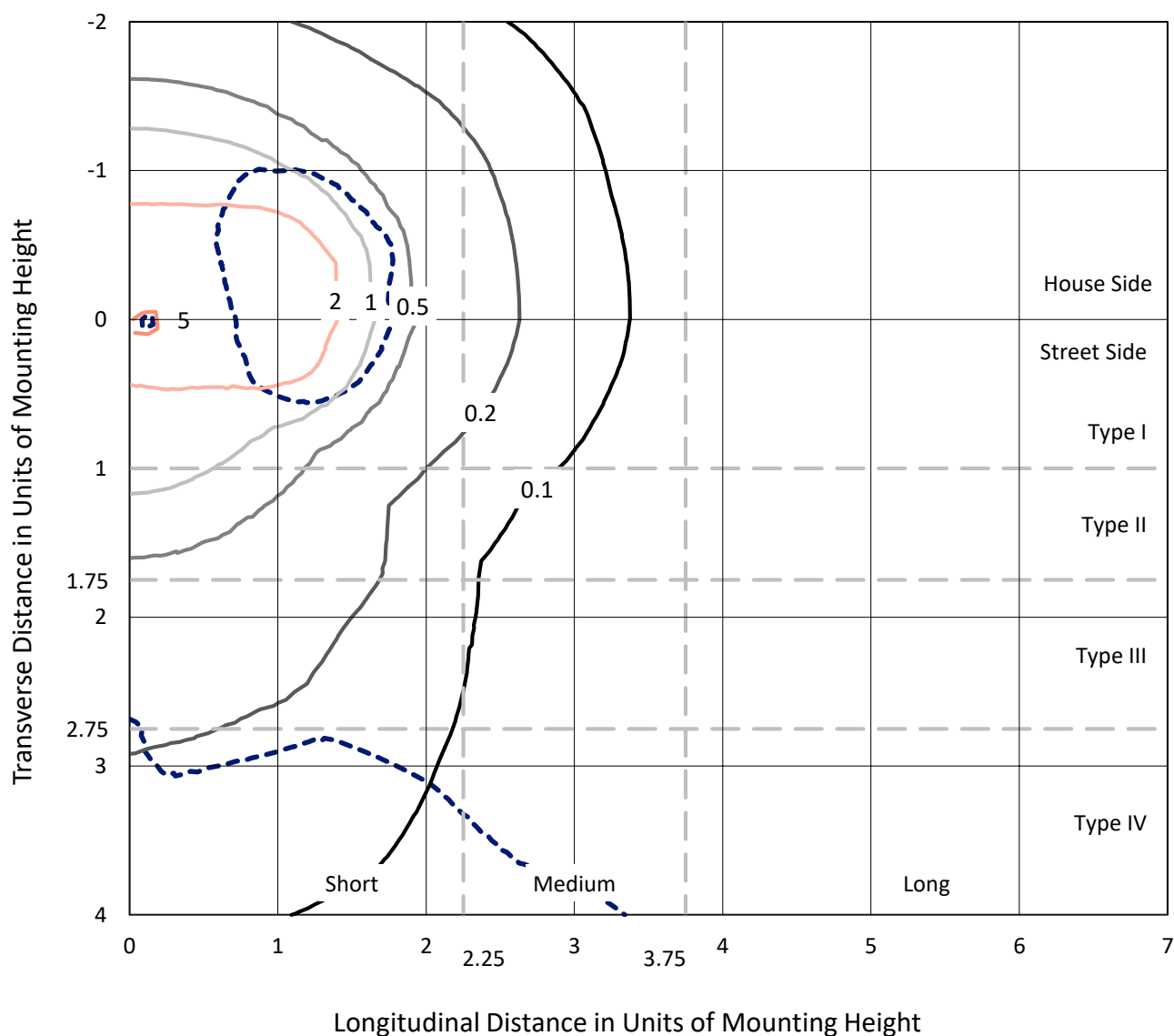


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

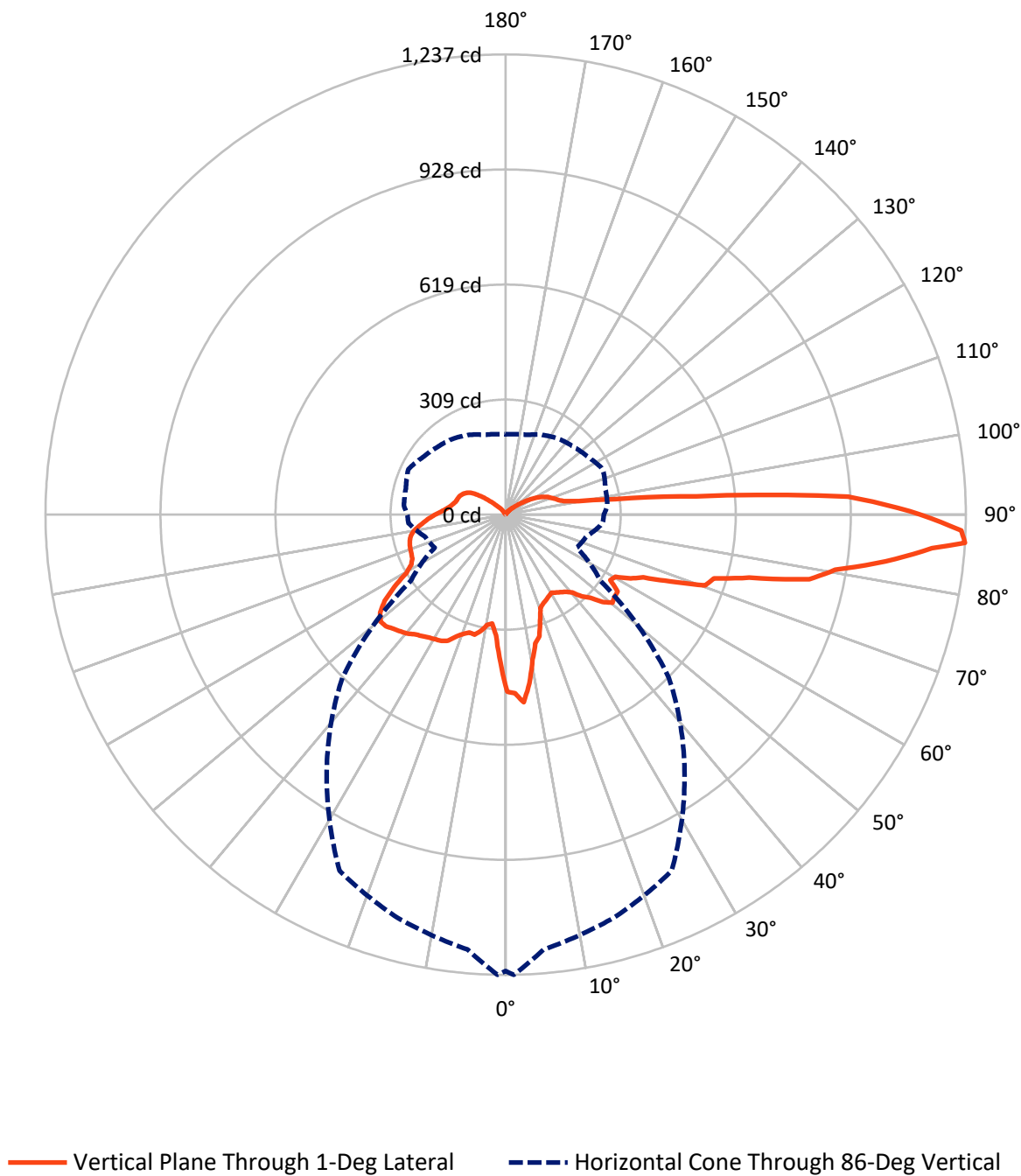


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P212579

CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-800

## Luminous Intensity Polar Plot



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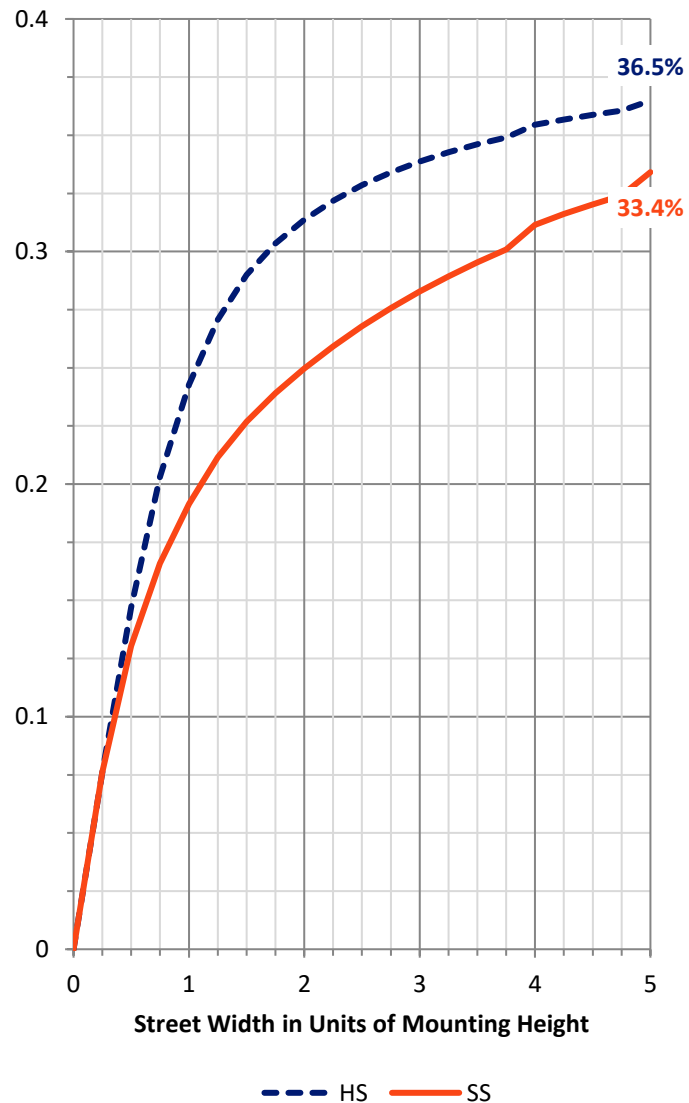
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1392.8   | 341.4  | 1734.2 |
|                    | % Fixture | 38.7     | 9.5    | 48.1   |
| <b>Street Side</b> | Lumens    | 1465.0   | 402.9  | 1867.8 |
|                    | % Fixture | 40.7     | 11.2   | 51.9   |
| <b>Total</b>       | Lumens    | 2857.8   | 744.2  | 3602.0 |
|                    | % Fixture | 79.3     | 20.7   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.5   | 1.3       |
| 10°-20°   | 110.8  | 3.1       |
| 20°-30°   | 172.1  | 4.8       |
| 30°-40°   | 275.4  | 7.6       |
| 40°-50°   | 455.0  | 12.6      |
| 50°-60°   | 491.4  | 13.6      |
| 60°-70°   | 375.8  | 10.4      |
| 70°-80°   | 443.6  | 12.3      |
| 80°-90°   | 488.1  | 13.6      |
| 90°-100°  | 296.4  | 8.2       |
| 100°-110° | 150.8  | 4.2       |
| 110°-120° | 146.8  | 4.1       |
| 120°-130° | 107.8  | 3.0       |
| 130°-140° | 34.2   | 0.9       |
| 140°-150° | 7.6    | 0.2       |
| 150°-160° | 0.6    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2857.8 | 79.3      |
| 0°-180°   | 3602.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P212579

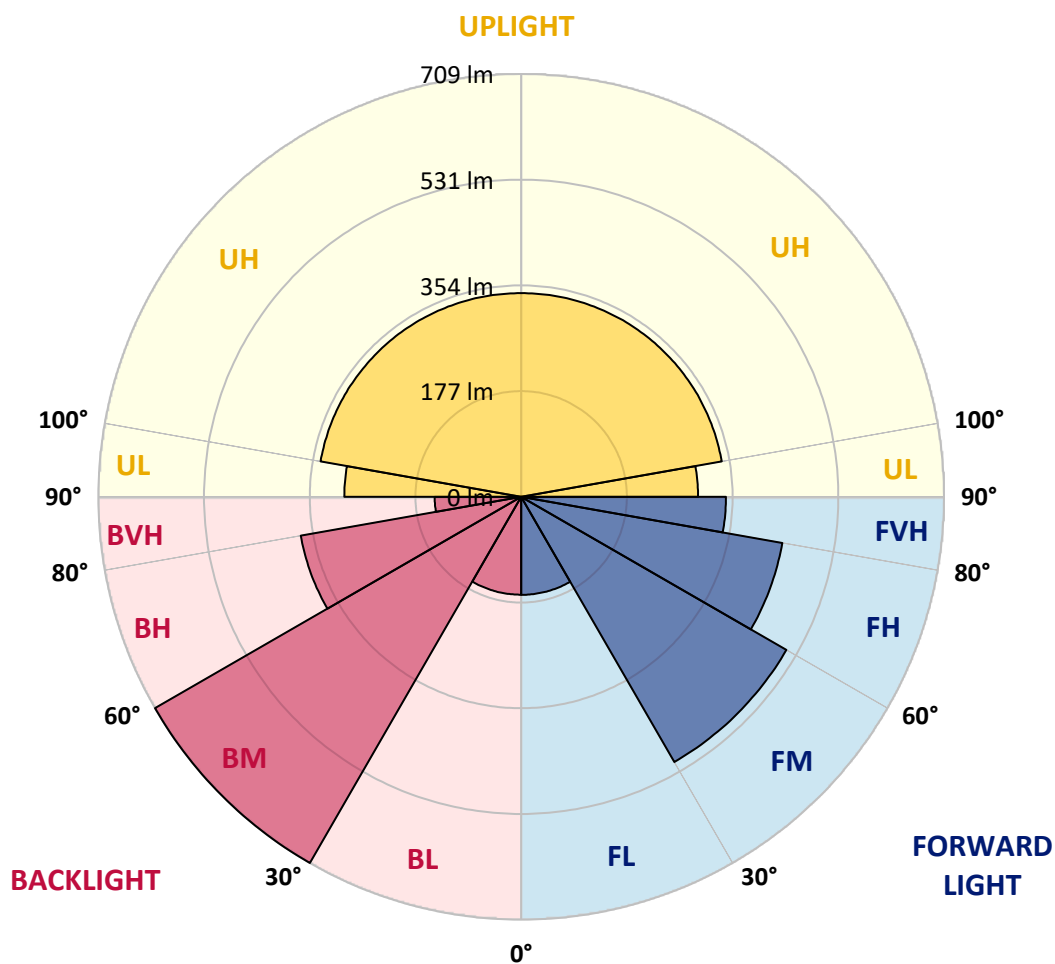
CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 164.3  | 4.6       |                         |        |        |
| FM   | (30°-60°)   | 513.2  | 14.2      |                         |        |        |
| FH   | (60°-80°)   | 444.4  | 12.3      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 343.1  | 9.5       |                         |        | G3/500 |
| BL   | (0°-30°)    | 164.1  | 4.6       | B1/500                  |        |        |
| BM   | (30°-60°)   | 708.6  | 19.7      | B1/1000                 |        |        |
| BH   | (60°-80°)   | 375.0  | 10.4      | B1/500                  |        | G1/500 |
| BVH  | (80°-90°)   | 145.0  | 4.0       |                         |        | G2/225 |
| UL   | (90°-100°)  | 296.4  | 8.2       |                         | U3/500 |        |
| UH   | (100°-180°) | 341.4  | 9.5       |                         | U3/500 |        |

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

Type IV Short





REPORT NUMBER: P212579

CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-800

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 1°     | 5°     | 15°    | 25°    | 35°   | 45°   | 55°   | 65°   | 75°   | 85°    |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 475.7  | 475.7  | 475.7  | 475.7  | 475.7  | 475.7 | 475.7 | 475.7 | 475.7 | 475.7 | 475.7  |
| 2.5°   | 481.9  | 480.9  | 478.8  | 481.9  | 485.0  | 508.6 | 524.0 | 522.0 | 503.5 | 495.3 | 489.1  |
| 5°     | 513.8  | 506.6  | 501.4  | 509.7  | 509.7  | 552.8 | 574.4 | 542.5 | 536.4 | 551.8 | 535.3  |
| 7.5°   | 460.3  | 458.3  | 456.2  | 465.5  | 482.9  | 559.0 | 571.3 | 644.3 | 665.8 | 640.2 | 637.1  |
| 10°    | 393.5  | 396.6  | 393.5  | 442.9  | 511.7  | 564.1 | 495.3 | 513.8 | 547.7 | 559.0 | 504.5  |
| 12.5°  | 351.4  | 355.5  | 359.6  | 391.5  | 410.0  | 393.5 | 425.4 | 437.7 | 459.3 | 456.2 | 433.6  |
| 15°    | 335.0  | 339.1  | 337.0  | 322.6  | 343.2  | 373.0 | 398.7 | 423.3 | 448.0 | 424.4 | 424.4  |
| 17.5°  | 309.3  | 300.0  | 298.0  | 283.6  | 319.6  | 360.7 | 407.9 | 441.8 | 435.7 | 471.6 | 503.5  |
| 20°    | 270.2  | 267.2  | 267.2  | 274.4  | 305.2  | 355.5 | 440.8 | 516.9 | 568.2 | 528.2 | 479.9  |
| 22.5°  | 260.0  | 258.9  | 263.0  | 275.4  | 305.2  | 330.9 | 368.9 | 401.8 | 406.9 | 402.8 | 401.8  |
| 25°    | 253.8  | 253.8  | 257.9  | 272.3  | 283.6  | 303.1 | 349.4 | 378.1 | 380.2 | 400.7 | 400.7  |
| 27.5°  | 250.7  | 247.6  | 247.6  | 262.0  | 277.4  | 307.2 | 331.9 | 358.6 | 372.0 | 413.1 | 480.9  |
| 30°    | 244.6  | 243.5  | 244.6  | 258.9  | 282.6  | 302.1 | 333.9 | 356.6 | 376.1 | 417.2 | 436.7  |
| 32.5°  | 247.6  | 249.7  | 246.6  | 256.9  | 275.4  | 302.1 | 339.1 | 375.1 | 389.4 | 461.4 | 495.3  |
| 35°    | 255.9  | 255.9  | 251.7  | 256.9  | 271.3  | 298.0 | 343.2 | 397.7 | 424.4 | 517.9 | 568.2  |
| 37.5°  | 260.0  | 263.0  | 262.0  | 270.2  | 285.7  | 307.2 | 345.3 | 417.2 | 471.6 | 558.0 | 651.5  |
| 40°    | 275.4  | 275.4  | 276.4  | 290.8  | 302.1  | 316.5 | 346.3 | 427.5 | 533.3 | 606.2 | 756.3  |
| 42.5°  | 297.0  | 300.0  | 295.9  | 294.9  | 304.2  | 323.7 | 346.3 | 423.3 | 609.3 | 679.2 | 878.5  |
| 45°    | 314.4  | 318.5  | 315.5  | 322.6  | 321.6  | 337.0 | 346.3 | 414.1 | 631.9 | 759.4 | 986.4  |
| 47.5°  | 354.5  | 350.4  | 354.5  | 356.6  | 347.3  | 353.5 | 358.6 | 412.0 | 626.8 | 853.9 | 1046.0 |
| 50°    | 370.9  | 372.0  | 368.9  | 362.7  | 360.7  | 354.5 | 359.6 | 397.7 | 609.3 | 917.6 | 1084.1 |
| 52.5°  | 369.9  | 366.8  | 370.9  | 361.7  | 354.5  | 352.4 | 344.2 | 373.0 | 575.4 | 886.8 | 992.6  |
| 55°    | 368.9  | 364.8  | 357.6  | 345.3  | 332.9  | 330.9 | 326.8 | 346.3 | 496.3 | 742.9 | 871.4  |
| 57.5°  | 331.9  | 331.9  | 327.8  | 327.8  | 317.5  | 307.2 | 307.2 | 301.1 | 415.1 | 602.1 | 749.1  |
| 60°    | 338.1  | 339.1  | 335.0  | 341.1  | 333.9  | 305.2 | 309.3 | 269.2 | 347.3 | 455.2 | 547.7  |
| 62.5°  | 381.2  | 377.1  | 367.9  | 367.9  | 358.6  | 311.3 | 289.8 | 260.0 | 313.4 | 388.4 | 457.3  |
| 65°    | 410.0  | 406.9  | 407.9  | 415.1  | 404.8  | 346.3 | 322.6 | 263.0 | 301.1 | 372.0 | 432.6  |
| 67.5°  | 476.8  | 478.8  | 481.9  | 501.4  | 465.5  | 392.5 | 359.6 | 270.2 | 295.9 | 368.9 | 426.4  |
| 70°    | 592.9  | 569.3  | 551.8  | 508.6  | 494.2  | 405.9 | 368.9 | 277.4 | 291.8 | 368.9 | 422.3  |
| 72.5°  | 578.5  | 585.7  | 576.4  | 592.9  | 588.8  | 473.7 | 379.2 | 288.7 | 288.7 | 362.7 | 421.3  |
| 75°    | 685.4  | 676.1  | 696.7  | 761.4  | 691.5  | 544.6 | 440.8 | 301.1 | 280.5 | 351.4 | 413.1  |
| 77.5°  | 837.4  | 834.4  | 810.7  | 792.2  | 751.1  | 576.4 | 511.7 | 335.0 | 261.0 | 327.8 | 389.4  |
| 80°    | 908.3  | 898.1  | 914.5  | 877.5  | 858.0  | 663.8 | 504.5 | 320.6 | 238.4 | 298.0 | 353.5  |
| 82.5°  | 1034.7 | 1029.6 | 1039.9 | 1138.5 | 978.2  | 760.4 | 554.9 | 327.8 | 223.0 | 266.1 | 313.4  |
| 85°    | 1144.7 | 1149.8 | 1183.7 | 1146.7 | 1062.5 | 830.3 | 586.7 | 342.2 | 214.8 | 236.3 | 276.4  |
| 86°    | 1226.9 | 1237.2 | 1173.4 | 1122.1 | 1056.3 | 838.5 | 620.6 | 311.3 | 210.6 | 225.0 | 262.0  |
| 87.5°  | 1210.4 | 1225.9 | 1203.2 | 1181.7 | 1102.5 | 865.2 | 634.0 | 277.4 | 206.5 | 208.6 | 241.5  |
| 90°    | 1121.0 | 1087.1 | 1124.1 | 1158.0 | 1015.2 | 780.9 | 570.3 | 286.7 | 188.0 | 187.0 | 212.7  |
| 92.5°  | 925.8  | 921.7  | 899.1  | 891.9  | 804.6  | 629.9 | 478.8 | 239.4 | 172.6 | 167.5 | 189.1  |
| 95°    | 548.7  | 515.8  | 498.4  | 586.7  | 533.3  | 485.0 | 352.4 | 223.0 | 155.2 | 150.0 | 166.5  |
| 97.5°  | 307.2  | 297.0  | 285.7  | 325.7  | 339.1  | 304.2 | 228.1 | 163.4 | 137.7 | 137.7 | 150.0  |
| 100°   | 207.6  | 199.3  | 196.3  | 197.3  | 213.7  | 197.3 | 164.4 | 133.6 | 124.3 | 129.5 | 138.7  |
| 102.5° | 161.3  | 160.3  | 157.2  | 159.3  | 162.4  | 152.1 | 137.7 | 126.4 | 122.3 | 129.5 | 134.6  |
| 105°   | 146.9  | 146.9  | 143.9  | 142.8  | 145.9  | 136.7 | 129.5 | 122.3 | 124.3 | 134.6 | 137.7  |
| 107.5° | 137.7  | 138.7  | 134.6  | 134.6  | 134.6  | 129.5 | 123.3 | 120.2 | 128.4 | 141.8 | 144.9  |



REPORT NUMBER: P212579

CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-800

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 1°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 129.5 | 129.5 | 126.4 | 126.4 | 127.4 | 122.3 | 118.2 | 118.2 | 132.6 | 150.0 | 154.1 |
| 112.5° | 121.2 | 122.3 | 119.2 | 119.2 | 119.2 | 115.1 | 113.0 | 117.1 | 137.7 | 160.3 | 166.5 |
| 115°   | 111.0 | 111.0 | 108.9 | 111.0 | 111.0 | 108.9 | 108.9 | 117.1 | 149.0 | 175.7 | 185.0 |
| 117.5° | 98.6  | 98.6  | 97.6  | 100.7 | 101.7 | 102.8 | 105.8 | 118.2 | 161.3 | 193.2 | 207.6 |
| 120°   | 85.3  | 85.3  | 85.3  | 89.4  | 91.5  | 94.5  | 100.7 | 116.1 | 168.5 | 206.5 | 221.9 |
| 122.5° | 70.9  | 70.9  | 70.9  | 74.0  | 77.1  | 83.2  | 91.5  | 107.9 | 161.3 | 199.3 | 216.8 |
| 125°   | 56.5  | 56.5  | 57.5  | 59.6  | 63.7  | 69.9  | 78.1  | 93.5  | 138.7 | 171.6 | 190.1 |
| 127.5° | 45.2  | 45.2  | 45.2  | 47.3  | 50.3  | 56.5  | 63.7  | 77.1  | 108.9 | 136.7 | 154.1 |
| 130°   | 36.0  | 36.0  | 36.0  | 37.0  | 39.0  | 43.2  | 50.3  | 61.7  | 83.2  | 102.8 | 116.1 |
| 132.5° | 28.8  | 27.7  | 28.8  | 28.8  | 30.8  | 33.9  | 38.0  | 45.2  | 58.6  | 73.0  | 83.2  |
| 135°   | 23.6  | 23.6  | 23.6  | 23.6  | 24.7  | 25.7  | 29.8  | 32.9  | 40.1  | 49.3  | 54.5  |
| 137.5° | 18.5  | 18.5  | 18.5  | 18.5  | 19.5  | 19.5  | 21.6  | 24.7  | 27.7  | 33.9  | 39.0  |
| 140°   | 14.4  | 14.4  | 14.4  | 14.4  | 14.4  | 15.4  | 16.4  | 17.5  | 20.6  | 25.7  | 29.8  |
| 142.5° | 11.3  | 11.3  | 11.3  | 11.3  | 11.3  | 11.3  | 12.3  | 13.4  | 15.4  | 18.5  | 21.6  |
| 145°   | 7.2   | 8.2   | 7.2   | 7.2   | 7.2   | 7.2   | 8.2   | 8.2   | 10.3  | 12.3  | 14.4  |
| 147.5° | 4.1   | 5.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 5.1   | 5.1   | 7.2   | 8.2   |
| 150°   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 1.0   | 2.1   | 2.1   | 2.1   | 3.1   | 4.1   |
| 152.5° | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 2.1   | 2.1   |
| 155°   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 0.0   | 1.0   | 1.0   | 2.1   | 2.1   |
| 157.5° | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 2.1   | 2.1   |
| 160°   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 0.0   | 1.0   | 1.0   | 2.1   | 2.1   |
| 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   |





REPORT NUMBER: P212579

CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-800

**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 475.7  | 475.7  | 475.7  | 475.7  | 475.7 | 475.7 | 475.7 | 475.7 | 475.7 | 475.7 | 475.7 |
| 2.5°   | 487.1  | 487.1  | 490.1  | 490.1  | 487.1 | 474.7 | 456.2 | 437.7 | 416.2 | 400.7 | 396.6 |
| 5°     | 524.0  | 507.6  | 490.1  | 461.4  | 436.7 | 431.6 | 394.6 | 360.7 | 341.1 | 326.8 | 324.7 |
| 7.5°   | 637.1  | 616.5  | 545.6  | 526.1  | 493.2 | 452.1 | 348.3 | 314.4 | 301.1 | 295.9 | 294.9 |
| 10°    | 478.8  | 452.1  | 410.0  | 394.6  | 388.4 | 365.8 | 331.9 | 311.3 | 304.2 | 302.1 | 300.0 |
| 12.5°  | 419.2  | 405.9  | 387.4  | 374.0  | 364.8 | 346.3 | 326.8 | 314.4 | 312.4 | 318.5 | 319.6 |
| 15°    | 418.2  | 423.3  | 414.1  | 382.2  | 356.6 | 341.1 | 329.8 | 327.8 | 328.8 | 333.9 | 332.9 |
| 17.5°  | 516.9  | 496.3  | 462.4  | 414.1  | 377.1 | 378.1 | 376.1 | 345.3 | 341.1 | 332.9 | 330.9 |
| 20°    | 461.4  | 440.8  | 436.7  | 407.9  | 397.7 | 364.8 | 372.0 | 358.6 | 351.4 | 342.2 | 339.1 |
| 22.5°  | 399.7  | 390.5  | 373.0  | 365.8  | 362.7 | 373.0 | 373.0 | 361.7 | 357.6 | 353.5 | 352.4 |
| 25°    | 395.6  | 396.6  | 417.2  | 416.2  | 386.4 | 391.5 | 384.3 | 372.0 | 372.0 | 374.0 | 372.0 |
| 27.5°  | 480.9  | 455.2  | 426.4  | 425.4  | 413.1 | 426.4 | 403.8 | 386.4 | 385.3 | 382.2 | 380.2 |
| 30°    | 439.8  | 439.8  | 447.0  | 444.9  | 435.7 | 428.5 | 416.2 | 399.7 | 393.5 | 386.4 | 384.3 |
| 32.5°  | 499.4  | 503.5  | 519.9  | 501.4  | 478.8 | 457.3 | 435.7 | 412.0 | 399.7 | 390.5 | 389.4 |
| 35°    | 551.8  | 560.0  | 606.2  | 568.2  | 538.4 | 492.2 | 459.3 | 424.4 | 405.9 | 397.7 | 395.6 |
| 37.5°  | 619.6  | 626.8  | 703.9  | 643.2  | 596.0 | 530.2 | 485.0 | 438.8 | 415.1 | 403.8 | 402.8 |
| 40°    | 710.0  | 711.1  | 794.3  | 739.8  | 684.3 | 572.3 | 500.4 | 450.1 | 427.5 | 415.1 | 414.1 |
| 42.5°  | 830.3  | 824.1  | 926.8  | 874.4  | 756.3 | 603.2 | 507.6 | 453.1 | 431.6 | 423.3 | 422.3 |
| 45°    | 942.3  | 934.0  | 1018.3 | 996.7  | 788.1 | 622.7 | 516.9 | 463.4 | 438.8 | 431.6 | 429.5 |
| 47.5°  | 1017.3 | 1029.6 | 1090.2 | 1085.1 | 807.6 | 630.9 | 532.3 | 474.7 | 448.0 | 440.8 | 439.8 |
| 50°    | 1095.4 | 1109.7 | 1170.4 | 1079.9 | 820.0 | 637.1 | 543.6 | 482.9 | 452.1 | 443.9 | 441.8 |
| 52.5°  | 1112.8 | 1116.9 | 1158.0 | 1023.4 | 793.3 | 618.6 | 534.3 | 472.7 | 439.8 | 430.5 | 427.5 |
| 55°    | 995.7  | 964.9  | 1099.5 | 885.7  | 723.4 | 564.1 | 500.4 | 442.9 | 410.0 | 402.8 | 398.7 |
| 57.5°  | 825.1  | 777.8  | 884.7  | 732.6  | 617.5 | 502.5 | 444.9 | 398.7 | 367.9 | 359.6 | 355.5 |
| 60°    | 611.4  | 570.3  | 644.3  | 561.0  | 501.4 | 413.1 | 366.8 | 340.1 | 315.5 | 310.3 | 309.3 |
| 62.5°  | 503.5  | 484.0  | 521.0  | 478.8  | 431.6 | 368.9 | 333.9 | 311.3 | 289.8 | 287.7 | 287.7 |
| 65°    | 465.5  | 461.4  | 482.9  | 453.1  | 411.0 | 355.5 | 323.7 | 302.1 | 281.5 | 278.5 | 277.4 |
| 67.5°  | 449.0  | 450.1  | 460.3  | 446.0  | 409.0 | 353.5 | 321.6 | 299.0 | 278.5 | 275.4 | 274.4 |
| 70°    | 443.9  | 443.9  | 443.9  | 446.0  | 412.0 | 353.5 | 321.6 | 300.0 | 277.4 | 273.3 | 272.3 |
| 72.5°  | 440.8  | 440.8  | 433.6  | 441.8  | 409.0 | 351.4 | 321.6 | 299.0 | 276.4 | 271.3 | 270.2 |
| 75°    | 428.5  | 429.5  | 420.3  | 433.6  | 398.7 | 347.3 | 320.6 | 297.0 | 273.3 | 268.2 | 267.2 |
| 77.5°  | 401.8  | 403.8  | 397.7  | 415.1  | 381.2 | 339.1 | 315.5 | 292.8 | 269.2 | 263.0 | 262.0 |
| 80°    | 360.7  | 369.9  | 366.8  | 383.3  | 353.5 | 322.6 | 302.1 | 281.5 | 258.9 | 253.8 | 252.8 |
| 82.5°  | 316.5  | 327.8  | 329.8  | 342.2  | 318.5 | 297.0 | 279.5 | 263.0 | 242.5 | 238.4 | 237.4 |
| 85°    | 278.5  | 288.7  | 292.8  | 303.1  | 283.6 | 269.2 | 256.9 | 243.5 | 227.1 | 223.0 | 221.9 |
| 86°    | 264.1  | 274.4  | 277.4  | 288.7  | 270.2 | 257.9 | 248.7 | 236.3 | 221.9 | 216.8 | 215.8 |
| 87.5°  | 243.5  | 252.8  | 257.9  | 267.2  | 250.7 | 241.5 | 235.3 | 226.1 | 212.7 | 208.6 | 207.6 |
| 90°    | 214.8  | 224.0  | 227.1  | 232.2  | 218.9 | 213.7 | 211.7 | 205.5 | 196.3 | 192.1 | 192.1 |
| 92.5°  | 190.1  | 198.3  | 201.4  | 204.5  | 193.2 | 189.1 | 190.1 | 187.0 | 180.8 | 177.8 | 176.7 |
| 95°    | 167.5  | 174.7  | 176.7  | 179.8  | 170.6 | 169.5 | 174.7 | 173.7 | 168.5 | 165.4 | 164.4 |
| 97.5°  | 151.0  | 156.2  | 158.2  | 159.3  | 154.1 | 156.2 | 161.3 | 162.4 | 159.3 | 156.2 | 155.2 |
| 100°   | 139.7  | 142.8  | 145.9  | 148.0  | 142.8 | 145.9 | 152.1 | 153.1 | 151.0 | 149.0 | 148.0 |
| 102.5° | 135.6  | 137.7  | 142.8  | 144.9  | 138.7 | 139.7 | 144.9 | 146.9 | 144.9 | 142.8 | 142.8 |
| 105°   | 138.7  | 139.7  | 148.0  | 151.0  | 141.8 | 138.7 | 140.8 | 142.8 | 139.7 | 138.7 | 138.7 |
| 107.5° | 145.9  | 146.9  | 158.2  | 161.3  | 151.0 | 142.8 | 140.8 | 140.8 | 138.7 | 136.7 | 136.7 |



REPORT NUMBER: P212579

CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-800

**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 155.2 | 158.2 | 170.6 | 176.7 | 164.4 | 148.0 | 140.8 | 139.7 | 137.7 | 134.6 | 135.6 |
| 112.5° | 168.5 | 170.6 | 185.0 | 193.2 | 178.8 | 153.1 | 140.8 | 137.7 | 134.6 | 132.6 | 133.6 |
| 115°   | 188.0 | 187.0 | 204.5 | 211.7 | 192.1 | 158.2 | 141.8 | 134.6 | 131.5 | 129.5 | 129.5 |
| 117.5° | 210.6 | 208.6 | 226.1 | 226.1 | 202.4 | 162.4 | 141.8 | 131.5 | 127.4 | 125.4 | 125.4 |
| 120°   | 226.1 | 221.9 | 241.5 | 233.3 | 203.5 | 162.4 | 140.8 | 127.4 | 122.3 | 120.2 | 119.2 |
| 122.5° | 223.0 | 218.9 | 241.5 | 223.0 | 188.0 | 150.0 | 131.5 | 120.2 | 114.1 | 112.0 | 111.0 |
| 125°   | 195.2 | 191.1 | 205.5 | 188.0 | 158.2 | 125.4 | 111.0 | 101.7 | 98.6  | 96.6  | 96.6  |
| 127.5° | 158.2 | 155.2 | 158.2 | 146.9 | 124.3 | 100.7 | 89.4  | 83.2  | 81.2  | 80.1  | 80.1  |
| 130°   | 116.1 | 117.1 | 119.2 | 111.0 | 93.5  | 78.1  | 68.8  | 64.7  | 63.7  | 62.7  | 62.7  |
| 132.5° | 84.3  | 84.3  | 86.3  | 81.2  | 67.8  | 58.6  | 53.4  | 50.3  | 50.3  | 49.3  | 49.3  |
| 135°   | 56.5  | 57.5  | 59.6  | 56.5  | 48.3  | 42.1  | 39.0  | 38.0  | 38.0  | 37.0  | 37.0  |
| 137.5° | 40.1  | 42.1  | 43.2  | 40.1  | 36.0  | 31.9  | 28.8  | 27.7  | 28.8  | 27.7  | 27.7  |
| 140°   | 30.8  | 31.9  | 32.9  | 30.8  | 26.7  | 23.6  | 22.6  | 21.6  | 21.6  | 21.6  | 21.6  |
| 142.5° | 23.6  | 23.6  | 24.7  | 22.6  | 19.5  | 17.5  | 16.4  | 16.4  | 16.4  | 16.4  | 16.4  |
| 145°   | 15.4  | 16.4  | 16.4  | 15.4  | 13.4  | 12.3  | 11.3  | 10.3  | 10.3  | 10.3  | 10.3  |
| 147.5° | 8.2   | 9.2   | 10.3  | 9.2   | 8.2   | 7.2   | 6.2   | 6.2   | 5.1   | 5.1   | 5.1   |
| 150°   | 4.1   | 4.1   | 5.1   | 5.1   | 4.1   | 3.1   | 2.1   | 2.1   | 2.1   | 1.0   | 1.0   |
| 152.5° | 2.1   | 2.1   | 3.1   | 3.1   | 2.1   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 155°   | 2.1   | 2.1   | 3.1   | 3.1   | 2.1   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 157.5° | 2.1   | 2.1   | 2.1   | 3.1   | 2.1   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 2.1   | 2.1   | 2.1   | 3.1   | 2.1   | 1.0   | 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)