

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: SHAPER

Report Number: P368723

Luminaire Tested: **673-16-L3/827**

Issue Date: 11/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-721-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 11/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 673-16-L3/827  
Description: 16" 673 SERIES LUMINOUS WALL SCONCE  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

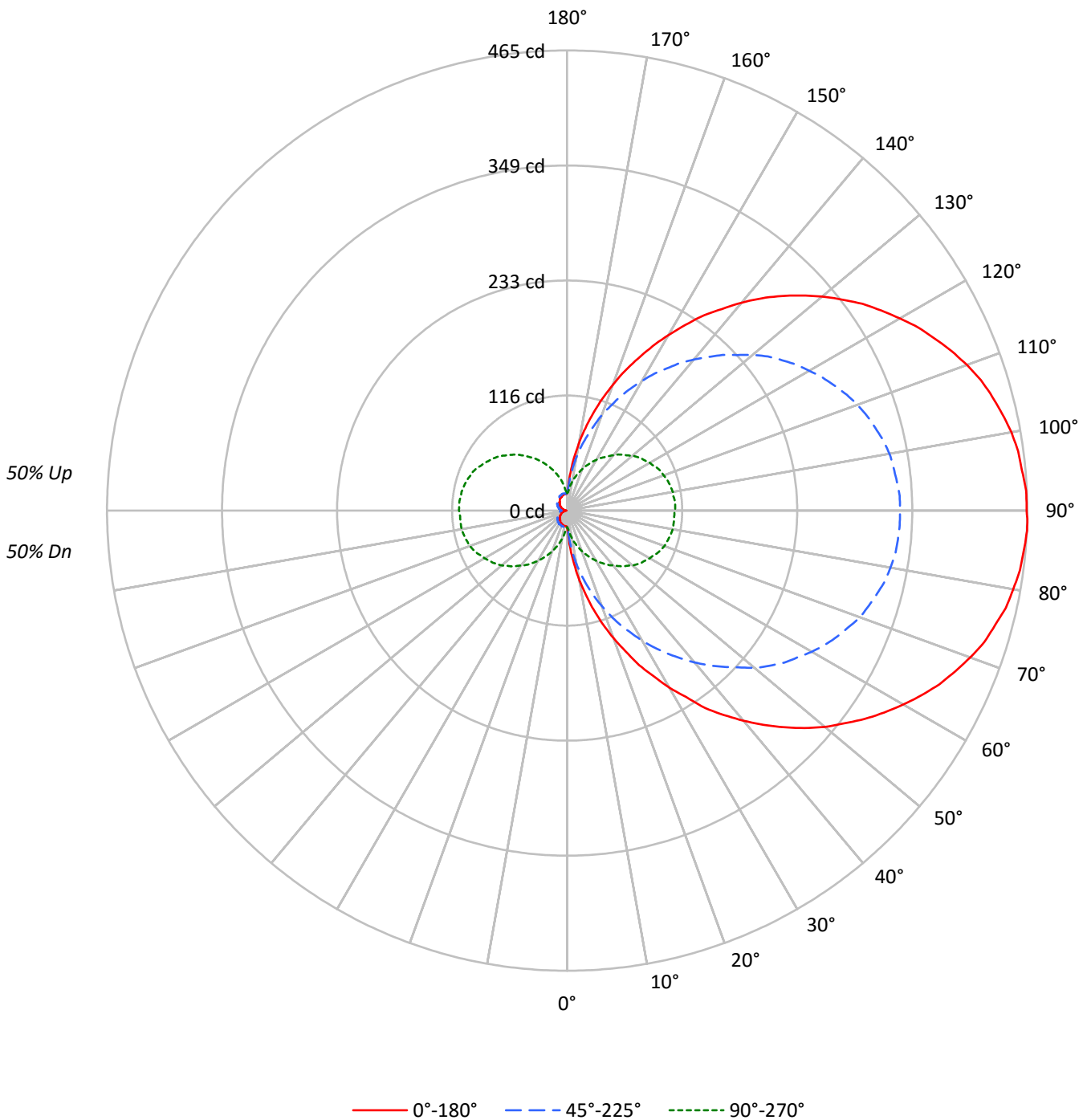
Lumens per Lamp: N/A  
Luminaire Lumens: 1686.8 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 5.61 / 4.11 / 4.63  
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.25' x H: 1.33')  
CIE Type: General Diffuse

Input Watts (W): 22.5  
Input Voltage (V): 120  
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: 25 FT



TEST NUMBER: P368723  
CATALOG NUMBER: 673-16-L3/827

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1   | 92  | 85  | 79  | 74  | 84 | 78 | 73 | 68 | 65 | 60 | 57 | 52 | 49 | 46 | 41 | 38 | 36 | 31 |
| 2   | 82  | 71  | 63  | 56  | 74 | 65 | 58 | 51 | 53 | 48 | 43 | 43 | 38 | 34 | 33 | 29 | 26 | 21 |
| 3   | 73  | 61  | 52  | 44  | 66 | 56 | 47 | 40 | 45 | 39 | 33 | 36 | 31 | 27 | 27 | 23 | 20 | 15 |
| 4   | 66  | 53  | 43  | 36  | 60 | 48 | 39 | 33 | 39 | 32 | 27 | 31 | 26 | 21 | 23 | 19 | 16 | 12 |
| 5   | 60  | 46  | 37  | 29  | 54 | 42 | 33 | 27 | 34 | 27 | 22 | 27 | 22 | 17 | 20 | 16 | 13 | 9  |
| 6   | 55  | 41  | 31  | 25  | 50 | 37 | 29 | 23 | 30 | 24 | 19 | 24 | 19 | 15 | 18 | 14 | 11 | 7  |
| 7   | 51  | 37  | 27  | 21  | 46 | 33 | 25 | 19 | 27 | 21 | 16 | 22 | 16 | 12 | 16 | 12 | 9  | 6  |
| 8   | 47  | 33  | 24  | 18  | 42 | 30 | 22 | 17 | 25 | 18 | 14 | 19 | 14 | 11 | 15 | 11 | 8  | 5  |
| 9   | 43  | 30  | 21  | 16  | 39 | 27 | 20 | 14 | 22 | 16 | 12 | 18 | 13 | 9  | 13 | 9  | 7  | 4  |
| 10  | 40  | 27  | 19  | 14  | 37 | 25 | 18 | 13 | 20 | 14 | 10 | 16 | 11 | 8  | 12 | 9  | 6  | 4  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 1015 | 1015 | 1015 |
| 5°  | 1656 | 1116 | 657  |
| 10° | 2271 | 1330 | 503  |
| 15° | 2689 | 1510 | 409  |
| 20° | 3015 | 1674 | 325  |
| 25° | 3316 | 1822 | 267  |
| 30° | 3555 | 1964 | 239  |
| 35° | 3820 | 2106 | 188  |
| 40° | 4016 | 2224 | 174  |
| 45° | 4201 | 2377 | 151  |
| 50° | 4372 | 2513 | 120  |
| 55° | 4514 | 2635 | 102  |
| 60° | 4655 | 2751 | 88   |
| 65° | 4800 | 2884 | 75   |
| 70° | 4924 | 3015 | 64   |
| 75° | 5029 | 3120 | 42   |
| 80° | 5129 | 3250 | 31   |
| 85° | 5215 | 3358 | 21   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.7    | 0.2       |
| 10°-20°   | 13.9   | 0.8       |
| 20°-30°   | 33.6   | 2.0       |
| 30°-40°   | 60.6   | 3.6       |
| 40°-50°   | 92.6   | 5.5       |
| 50°-60°   | 125.2  | 7.4       |
| 60°-70°   | 154.4  | 9.2       |
| 70°-80°   | 175.9  | 10.4      |
| 80°-90°   | 186.3  | 11.0      |
| 90°-100°  | 185.9  | 11.0      |
| 100°-110° | 175.0  | 10.4      |
| 110°-120° | 153.3  | 9.1       |
| 120°-130° | 124.4  | 7.4       |
| 130°-140° | 92.2   | 5.5       |
| 140°-150° | 60.5   | 3.6       |
| 150°-160° | 33.6   | 2.0       |
| 160°-170° | 13.9   | 0.8       |
| 170°-180° | 2.7    | 0.2       |
| 0°-30°    | 50.1   | 3.0       |
| 0°-40°    | 110.8  | 6.6       |
| 0°-60°    | 328.6  | 19.5      |
| 0°-90°    | 845.2  | 50.1      |
| 90°-120°  | 514.2  | 30.5      |
| 90°-150°  | 791.3  | 46.9      |
| 90°-180°  | 842.0  | 49.9      |
| 0°-180°   | 1686.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 17  | 17  | 17  | 17   | 17   |      |
| 5°   | 40  | 32  | 21  | 17   | 16   | 5    |
| 15°  | 104 | 79  | 36  | 17   | 16   | 30   |
| 25°  | 172 | 128 | 51  | 16   | 14   | 80   |
| 35°  | 244 | 176 | 66  | 15   | 12   | 153  |
| 45°  | 310 | 223 | 80  | 14   | 11   | 240  |
| 55°  | 367 | 268 | 92  | 12   | 8    | 329  |
| 65°  | 415 | 301 | 101 | 10   | 6    | 411  |
| 75°  | 448 | 324 | 107 | 8    | 4    | 473  |
| 85°  | 463 | 336 | 108 | 6    | 2    | 378  |
| 90°  | 464 | 336 | 109 | 6    | 1    | 255  |
| 95°  | 462 | 334 | 109 | 6    | 2    | 376  |
| 105° | 445 | 322 | 107 | 8    | 4    | 470  |
| 115° | 410 | 298 | 101 | 10   | 6    | 407  |
| 125° | 364 | 265 | 92  | 12   | 8    | 326  |
| 135° | 307 | 222 | 80  | 14   | 11   | 238  |
| 145° | 241 | 175 | 66  | 16   | 13   | 152  |
| 155° | 170 | 127 | 52  | 17   | 15   | 80   |
| 165° | 102 | 78  | 37  | 18   | 16   | 30   |
| 175° | 39  | 32  | 21  | 17   | 17   | 5    |
| 180° | 18  | 18  | 18  | 18   | 18   |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  |
| 2.5°   | 24.1  | 22.2  | 22.2  | 22.2  | 20.4  | 20.4  | 20.4  | 19.5  | 18.5  | 18.5  | 17.6  |
| 5°     | 39.8  | 38.9  | 38.0  | 37.1  | 34.3  | 31.5  | 29.7  | 26.9  | 25.0  | 22.2  | 21.3  |
| 7.5°   | 54.7  | 54.7  | 52.8  | 51.0  | 47.3  | 43.6  | 38.9  | 35.2  | 30.6  | 26.9  | 25.0  |
| 10°    | 71.4  | 69.5  | 67.6  | 65.8  | 60.2  | 55.6  | 49.1  | 43.6  | 37.1  | 31.5  | 28.7  |
| 12.5°  | 87.1  | 86.2  | 83.4  | 79.7  | 74.1  | 66.7  | 58.4  | 51.0  | 42.6  | 35.2  | 32.4  |
| 15°    | 103.8 | 102.9 | 100.1 | 95.4  | 88.0  | 78.8  | 68.6  | 59.3  | 49.1  | 40.8  | 36.1  |
| 17.5°  | 120.5 | 119.5 | 115.8 | 110.3 | 101.9 | 90.8  | 78.8  | 66.7  | 55.6  | 44.5  | 39.8  |
| 20°    | 137.1 | 136.2 | 132.5 | 125.1 | 114.9 | 102.9 | 89.0  | 75.1  | 61.2  | 49.1  | 43.6  |
| 22.5°  | 153.8 | 152.9 | 149.2 | 139.9 | 128.8 | 114.9 | 99.2  | 83.4  | 67.6  | 53.7  | 47.3  |
| 25°    | 172.4 | 170.5 | 165.9 | 156.6 | 143.6 | 127.9 | 109.3 | 91.7  | 74.1  | 58.4  | 51.0  |
| 27.5°  | 188.1 | 188.1 | 182.6 | 171.4 | 156.6 | 139.0 | 120.5 | 100.1 | 80.6  | 63.0  | 54.7  |
| 30°    | 206.6 | 205.7 | 199.2 | 187.2 | 171.4 | 152.0 | 130.7 | 108.4 | 87.1  | 66.7  | 58.4  |
| 32.5°  | 223.3 | 222.4 | 215.9 | 202.0 | 185.3 | 164.0 | 140.9 | 116.8 | 92.7  | 71.4  | 62.1  |
| 35°    | 243.7 | 241.9 | 232.6 | 217.8 | 199.2 | 176.1 | 151.0 | 124.2 | 99.2  | 76.0  | 65.8  |
| 37.5°  | 260.4 | 259.5 | 251.1 | 233.5 | 213.1 | 188.1 | 161.2 | 132.5 | 105.6 | 80.6  | 69.5  |
| 40°    | 277.1 | 275.2 | 266.9 | 250.2 | 227.0 | 200.2 | 170.5 | 139.9 | 111.2 | 84.3  | 72.3  |
| 42.5°  | 293.8 | 292.8 | 283.6 | 266.0 | 242.8 | 212.2 | 180.7 | 148.3 | 116.8 | 89.0  | 76.0  |
| 45°    | 309.5 | 308.6 | 298.4 | 279.9 | 255.8 | 223.3 | 190.0 | 155.7 | 123.2 | 92.7  | 79.7  |
| 47.5°  | 325.3 | 323.4 | 314.1 | 294.7 | 267.8 | 234.4 | 199.2 | 163.1 | 128.8 | 96.4  | 82.5  |
| 50°    | 340.1 | 338.2 | 329.0 | 308.6 | 280.8 | 247.4 | 208.5 | 170.5 | 134.4 | 100.1 | 86.2  |
| 52.5°  | 353.1 | 353.1 | 341.9 | 320.6 | 291.9 | 257.6 | 216.8 | 177.0 | 139.0 | 103.8 | 89.0  |
| 55°    | 367.0 | 367.0 | 355.8 | 333.6 | 303.9 | 267.8 | 225.2 | 183.5 | 143.6 | 107.5 | 91.7  |
| 57.5°  | 379.9 | 378.1 | 367.9 | 344.7 | 314.1 | 276.1 | 232.6 | 189.0 | 148.3 | 110.3 | 93.6  |
| 60°    | 392.0 | 391.0 | 379.9 | 355.8 | 324.3 | 285.4 | 240.9 | 195.5 | 152.0 | 114.0 | 96.4  |
| 62.5°  | 404.0 | 402.2 | 390.1 | 366.0 | 333.6 | 293.8 | 248.3 | 201.1 | 156.6 | 116.8 | 98.2  |
| 65°    | 415.1 | 413.3 | 401.2 | 376.2 | 341.9 | 301.2 | 254.8 | 205.7 | 160.3 | 118.6 | 101.0 |
| 67.5°  | 424.4 | 422.6 | 410.5 | 384.6 | 350.3 | 307.7 | 260.4 | 210.4 | 164.0 | 121.4 | 102.9 |
| 70°    | 433.7 | 431.8 | 418.8 | 392.9 | 357.7 | 315.1 | 266.0 | 215.0 | 166.8 | 123.2 | 104.7 |
| 72.5°  | 442.0 | 440.2 | 426.3 | 400.3 | 364.2 | 319.7 | 270.6 | 218.7 | 169.6 | 125.1 | 105.6 |
| 75°    | 447.6 | 446.6 | 432.7 | 406.8 | 369.7 | 324.3 | 275.2 | 221.5 | 171.4 | 127.0 | 106.6 |
| 77.5°  | 454.1 | 452.2 | 438.3 | 411.4 | 374.4 | 329.0 | 278.0 | 223.3 | 173.3 | 127.9 | 107.5 |
| 80°    | 457.8 | 456.8 | 442.9 | 416.1 | 378.1 | 331.7 | 280.8 | 226.1 | 175.1 | 128.8 | 108.4 |
| 82.5°  | 461.5 | 459.6 | 445.7 | 417.9 | 380.9 | 334.5 | 282.6 | 227.0 | 176.1 | 129.7 | 108.4 |
| 85°    | 463.3 | 462.4 | 447.6 | 420.7 | 381.8 | 335.5 | 283.6 | 228.0 | 176.1 | 129.7 | 108.4 |
| 87.5°  | 465.2 | 463.3 | 449.4 | 421.6 | 383.6 | 336.4 | 284.5 | 228.0 | 177.0 | 129.7 | 108.4 |
| 89°    | 465.2 | 463.3 | 449.4 | 421.6 | 383.6 | 336.4 | 284.5 | 228.9 | 177.0 | 129.7 | 108.4 |
| 90°    | 464.3 | 462.4 | 448.5 | 421.6 | 382.7 | 336.4 | 284.5 | 228.9 | 177.0 | 129.7 | 109.3 |
| 92.5°  | 464.3 | 461.5 | 447.6 | 420.7 | 382.7 | 336.4 | 284.5 | 228.0 | 177.0 | 129.7 | 109.3 |
| 95°    | 461.5 | 460.5 | 446.6 | 418.8 | 381.8 | 334.5 | 283.6 | 228.0 | 177.0 | 129.7 | 109.3 |
| 97.5°  | 459.6 | 457.8 | 442.9 | 417.0 | 379.0 | 332.7 | 281.7 | 227.0 | 176.1 | 129.7 | 108.4 |
| 100°   | 455.9 | 454.1 | 440.2 | 413.3 | 376.2 | 330.8 | 279.9 | 225.2 | 175.1 | 128.8 | 108.4 |
| 102.5° | 450.4 | 448.5 | 434.6 | 408.7 | 371.6 | 327.1 | 277.1 | 223.3 | 173.3 | 127.9 | 107.5 |
| 105°   | 444.8 | 442.9 | 430.0 | 404.0 | 367.0 | 322.5 | 273.4 | 220.5 | 171.4 | 127.0 | 106.6 |
| 107.5° | 438.3 | 436.5 | 422.6 | 397.5 | 361.4 | 317.8 | 269.7 | 217.8 | 168.7 | 125.1 | 105.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 430.0 | 428.1 | 415.1 | 390.1 | 354.9 | 312.3 | 265.0 | 214.1 | 166.8 | 123.2 | 103.8 |
| 112.5° | 420.7 | 418.8 | 406.8 | 381.8 | 347.5 | 305.8 | 259.5 | 209.4 | 163.1 | 121.4 | 102.9 |
| 115°   | 410.5 | 408.7 | 396.6 | 371.6 | 339.2 | 298.4 | 253.0 | 204.8 | 159.4 | 118.6 | 101.0 |
| 117.5° | 400.3 | 399.4 | 386.4 | 363.3 | 330.8 | 291.0 | 247.4 | 200.2 | 155.7 | 115.8 | 98.2  |
| 120°   | 388.3 | 387.3 | 375.3 | 352.1 | 321.6 | 282.6 | 238.2 | 194.6 | 152.0 | 114.0 | 96.4  |
| 122.5° | 376.2 | 375.3 | 364.2 | 341.0 | 311.4 | 274.3 | 231.7 | 189.0 | 147.3 | 110.3 | 93.6  |
| 125°   | 364.2 | 362.3 | 351.2 | 329.9 | 300.2 | 265.0 | 223.3 | 183.5 | 143.6 | 107.5 | 91.7  |
| 127.5° | 350.3 | 349.4 | 338.2 | 317.8 | 290.0 | 255.8 | 215.9 | 177.0 | 138.1 | 103.8 | 89.0  |
| 130°   | 336.4 | 334.5 | 324.3 | 304.9 | 278.0 | 244.6 | 206.6 | 169.6 | 133.4 | 100.1 | 86.2  |
| 132.5° | 321.6 | 320.6 | 311.4 | 292.8 | 266.0 | 232.6 | 199.2 | 163.1 | 127.9 | 97.3  | 82.5  |
| 135°   | 306.7 | 304.9 | 296.5 | 278.9 | 253.9 | 222.4 | 190.0 | 155.7 | 122.3 | 92.7  | 79.7  |
| 137.5° | 291.0 | 290.0 | 280.8 | 264.1 | 240.9 | 210.4 | 179.8 | 148.3 | 116.8 | 89.0  | 76.9  |
| 140°   | 274.3 | 274.3 | 265.0 | 250.2 | 225.2 | 199.2 | 170.5 | 140.9 | 111.2 | 85.3  | 73.2  |
| 142.5° | 256.7 | 256.7 | 248.3 | 231.7 | 212.2 | 188.1 | 160.3 | 132.5 | 104.7 | 80.6  | 69.5  |
| 145°   | 240.9 | 239.1 | 230.7 | 216.8 | 198.3 | 175.1 | 150.1 | 124.2 | 99.2  | 76.0  | 65.8  |
| 147.5° | 222.4 | 221.5 | 215.0 | 202.0 | 184.4 | 164.0 | 140.9 | 116.8 | 93.6  | 72.3  | 63.0  |
| 150°   | 204.8 | 204.8 | 198.3 | 187.2 | 170.5 | 151.0 | 130.7 | 108.4 | 87.1  | 67.6  | 59.3  |
| 152.5° | 187.2 | 187.2 | 180.7 | 170.5 | 156.6 | 139.0 | 119.5 | 100.1 | 80.6  | 63.0  | 55.6  |
| 155°   | 169.6 | 169.6 | 164.0 | 155.7 | 142.7 | 127.0 | 109.3 | 91.7  | 74.1  | 58.4  | 51.9  |
| 157.5° | 152.9 | 152.9 | 148.3 | 140.9 | 128.8 | 114.0 | 99.2  | 83.4  | 68.6  | 53.7  | 48.2  |
| 160°   | 135.3 | 136.2 | 131.6 | 125.1 | 114.9 | 102.9 | 89.0  | 75.1  | 62.1  | 50.0  | 44.5  |
| 162.5° | 118.6 | 118.6 | 114.9 | 109.3 | 101.0 | 89.9  | 78.8  | 66.7  | 55.6  | 45.4  | 40.8  |
| 165°   | 101.9 | 101.9 | 99.2  | 94.5  | 87.1  | 77.8  | 68.6  | 58.4  | 49.1  | 40.8  | 37.1  |
| 167.5° | 85.3  | 85.3  | 83.4  | 79.7  | 73.2  | 66.7  | 59.3  | 51.0  | 43.6  | 36.1  | 33.4  |
| 170°   | 69.5  | 69.5  | 68.6  | 65.8  | 60.2  | 55.6  | 49.1  | 43.6  | 37.1  | 31.5  | 29.7  |
| 172.5° | 53.7  | 54.7  | 52.8  | 51.0  | 47.3  | 43.6  | 39.8  | 35.2  | 31.5  | 27.8  | 25.9  |
| 175°   | 38.9  | 38.9  | 38.0  | 37.1  | 34.3  | 32.4  | 29.7  | 26.9  | 25.0  | 22.2  | 21.3  |
| 177.5° | 23.2  | 23.2  | 23.2  | 23.2  | 22.2  | 21.3  | 21.3  | 20.4  | 19.5  | 18.5  | 18.5  |
| 180°   | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  | 17.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|
| 0°     | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 2.5°   | 17.6 | 17.6 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 15.8 | 15.8 | 15.8 |
| 5°     | 20.4 | 18.5 | 17.6 | 16.7 | 16.7 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 |
| 7.5°   | 23.2 | 20.4 | 18.5 | 17.6 | 16.7 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 |
| 10°    | 26.9 | 23.2 | 20.4 | 17.6 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 12.5°  | 29.7 | 25.0 | 21.3 | 18.5 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 15°    | 32.4 | 26.9 | 22.2 | 18.5 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 17.5°  | 35.2 | 28.7 | 23.2 | 18.5 | 16.7 | 15.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 20°    | 38.0 | 29.7 | 23.2 | 19.5 | 16.7 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 22.5°  | 41.7 | 31.5 | 24.1 | 19.5 | 15.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 25°    | 44.5 | 33.4 | 25.0 | 19.5 | 15.8 | 14.8 | 13.9 | 13.9 | 13.9 | 13.9 |
| 27.5°  | 47.3 | 35.2 | 25.9 | 19.5 | 15.8 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 30°    | 50.0 | 37.1 | 26.9 | 20.4 | 15.8 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 32.5°  | 52.8 | 38.9 | 27.8 | 20.4 | 15.8 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 35°    | 56.5 | 39.8 | 28.7 | 20.4 | 14.8 | 13.0 | 13.0 | 13.0 | 12.0 | 12.0 |
| 37.5°  | 59.3 | 41.7 | 28.7 | 20.4 | 14.8 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| 40°    | 62.1 | 43.6 | 29.7 | 20.4 | 14.8 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| 42.5°  | 64.9 | 45.4 | 30.6 | 20.4 | 13.9 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 45°    | 67.6 | 46.3 | 30.6 | 20.4 | 13.9 | 11.1 | 11.1 | 10.2 | 11.1 | 11.1 |
| 47.5°  | 69.5 | 48.2 | 31.5 | 20.4 | 13.0 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 50°    | 72.3 | 49.1 | 32.4 | 20.4 | 13.0 | 10.2 | 9.3  | 9.3  | 9.3  | 9.3  |
| 52.5°  | 74.1 | 50.0 | 32.4 | 20.4 | 12.0 | 9.3  | 9.3  | 9.3  | 9.3  | 9.3  |
| 55°    | 76.9 | 51.9 | 33.4 | 20.4 | 12.0 | 8.3  | 8.3  | 8.3  | 8.3  | 8.3  |
| 57.5°  | 78.8 | 52.8 | 33.4 | 19.5 | 11.1 | 8.3  | 7.4  | 8.3  | 7.4  | 7.4  |
| 60°    | 80.6 | 53.7 | 33.4 | 19.5 | 11.1 | 7.4  | 7.4  | 7.4  | 7.4  | 7.4  |
| 62.5°  | 82.5 | 54.7 | 34.3 | 19.5 | 11.1 | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  |
| 65°    | 83.4 | 55.6 | 34.3 | 19.5 | 10.2 | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  |
| 67.5°  | 85.3 | 55.6 | 34.3 | 19.5 | 10.2 | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  |
| 70°    | 86.2 | 56.5 | 34.3 | 19.5 | 9.3  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  |
| 72.5°  | 87.1 | 57.5 | 34.3 | 18.5 | 9.3  | 4.6  | 4.6  | 4.6  | 4.6  | 4.6  |
| 75°    | 88.0 | 57.5 | 34.3 | 18.5 | 8.3  | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
| 77.5°  | 89.0 | 57.5 | 34.3 | 18.5 | 8.3  | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
| 80°    | 89.0 | 57.5 | 34.3 | 17.6 | 7.4  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
| 82.5°  | 89.9 | 57.5 | 33.4 | 17.6 | 7.4  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
| 85°    | 89.9 | 57.5 | 33.4 | 16.7 | 6.5  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 87.5°  | 89.9 | 57.5 | 33.4 | 16.7 | 5.6  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 89°    | 89.9 | 57.5 | 33.4 | 16.7 | 5.6  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 90°    | 89.9 | 57.5 | 33.4 | 16.7 | 5.6  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 92.5°  | 89.9 | 57.5 | 33.4 | 16.7 | 5.6  | 1.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 95°    | 89.9 | 57.5 | 33.4 | 16.7 | 6.5  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
| 97.5°  | 89.9 | 57.5 | 33.4 | 17.6 | 7.4  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
| 100°   | 89.9 | 57.5 | 34.3 | 17.6 | 7.4  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
| 102.5° | 89.0 | 57.5 | 34.3 | 17.6 | 8.3  | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
| 105°   | 88.0 | 57.5 | 34.3 | 18.5 | 8.3  | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
| 107.5° | 87.1 | 57.5 | 34.3 | 18.5 | 9.3  | 4.6  | 4.6  | 4.6  | 4.6  | 4.6  |





TEST NUMBER: P368723  
 CATALOG NUMBER: 673-16-L3/827

**CANDELA DISTRIBUTION (continued):**

|        | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 86.2 | 56.5 | 34.3 | 19.5 | 9.3  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  |
| 112.5° | 85.3 | 56.5 | 34.3 | 19.5 | 10.2 | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  |
| 115°   | 83.4 | 55.6 | 34.3 | 19.5 | 10.2 | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  |
| 117.5° | 82.5 | 54.7 | 34.3 | 19.5 | 11.1 | 7.4  | 6.5  | 6.5  | 6.5  | 6.5  |
| 120°   | 80.6 | 53.7 | 34.3 | 20.4 | 11.1 | 7.4  | 7.4  | 7.4  | 7.4  | 7.4  |
| 122.5° | 78.8 | 52.8 | 33.4 | 20.4 | 12.0 | 8.3  | 8.3  | 8.3  | 8.3  | 8.3  |
| 125°   | 76.9 | 51.9 | 33.4 | 20.4 | 12.0 | 8.3  | 8.3  | 8.3  | 8.3  | 8.3  |
| 127.5° | 74.1 | 51.0 | 32.4 | 20.4 | 13.0 | 9.3  | 9.3  | 9.3  | 9.3  | 9.3  |
| 130°   | 72.3 | 49.1 | 32.4 | 20.4 | 13.0 | 10.2 | 9.3  | 10.2 | 9.3  | 9.3  |
| 132.5° | 69.5 | 48.2 | 31.5 | 20.4 | 13.9 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 135°   | 67.6 | 46.3 | 31.5 | 20.4 | 13.9 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 137.5° | 64.9 | 45.4 | 30.6 | 20.4 | 13.9 | 12.0 | 11.1 | 11.1 | 11.1 | 11.1 |
| 140°   | 62.1 | 43.6 | 29.7 | 20.4 | 14.8 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| 142.5° | 59.3 | 41.7 | 29.7 | 20.4 | 14.8 | 13.0 | 13.0 | 12.0 | 12.0 | 12.0 |
| 145°   | 56.5 | 40.8 | 28.7 | 20.4 | 15.8 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 147.5° | 53.7 | 38.9 | 27.8 | 20.4 | 15.8 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 150°   | 51.0 | 37.1 | 27.8 | 20.4 | 15.8 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 152.5° | 48.2 | 36.1 | 26.9 | 20.4 | 16.7 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 155°   | 45.4 | 34.3 | 25.9 | 20.4 | 16.7 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 157.5° | 41.7 | 32.4 | 25.0 | 20.4 | 16.7 | 15.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 160°   | 38.9 | 30.6 | 24.1 | 19.5 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 162.5° | 36.1 | 28.7 | 23.2 | 19.5 | 17.6 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 165°   | 33.4 | 26.9 | 22.2 | 19.5 | 17.6 | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 |
| 167.5° | 30.6 | 25.0 | 21.3 | 18.5 | 17.6 | 16.7 | 16.7 | 16.7 | 15.8 | 16.7 |
| 170°   | 26.9 | 23.2 | 20.4 | 18.5 | 17.6 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 172.5° | 24.1 | 21.3 | 19.5 | 18.5 | 17.6 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 175°   | 20.4 | 19.5 | 18.5 | 17.6 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 177.5° | 18.5 | 18.5 | 17.6 | 17.6 | 17.6 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 180°   | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |

(END OF REPORT)