

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 20051

Luminaire Tested: **608-18-CF2/27**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 20051
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 608-18-CF2/27
Description: INTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: TWO GE 27 WATT CPFL LAMPS

F27BX/SPX41. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

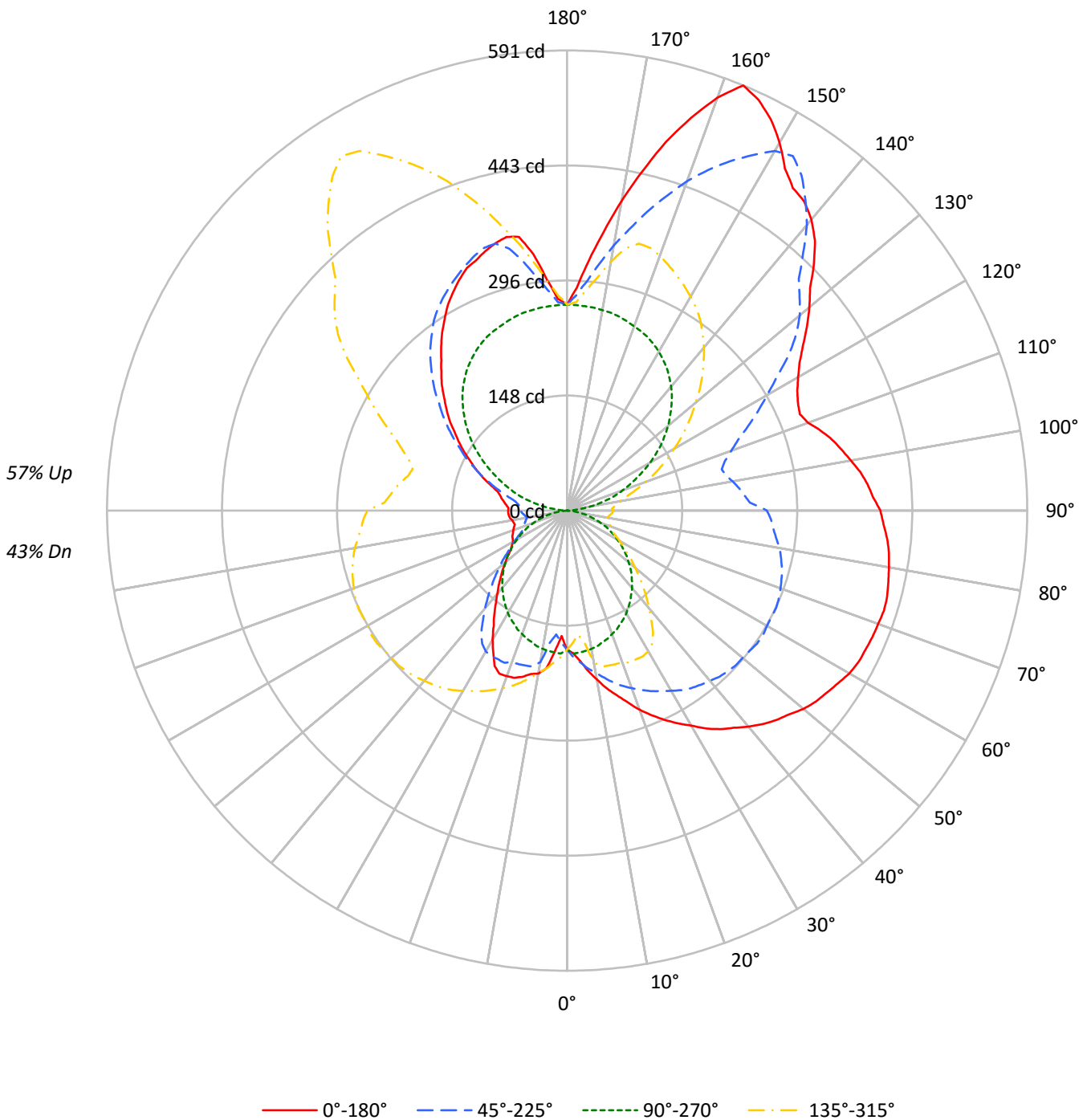
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 2631.3 lumens
Efficiency: 73.1%
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.99 / 1.26 / 1.86
Luminous Opening: Rectangular w/ Sides (W: 0.35' x L: 1.44' x H: 0.62')
CIE Type: General Diffuse

Input Watts (W): 38
Input Voltage (V): NR
Input Current (A_{in}): 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: 20051
CATALOG NUMBER: 608-18-CF2/27

Luminous Intensity Polar Plot





TEST NUMBER: 20051
 CATALOG NUMBER: 608-18-CF2/27

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 | 77 | 77 | 77 | 77 | 71 | 71 | 71 | 71 | 58 | 58 | 58 | 47 | 47 | 47 | 36 | 36 | 36 | 32 |
| 1 | 68 | 64 | 61 | 57 | 62 | 59 | 55 | 53 | 48 | 45 | 43 | 38 | 36 | 35 | 29 | 28 | 27 | 22 |
| 2 | 61 | 55 | 50 | 45 | 56 | 50 | 45 | 42 | 41 | 37 | 34 | 32 | 30 | 27 | 24 | 23 | 21 | 17 |
| 3 | 55 | 48 | 42 | 37 | 50 | 43 | 38 | 34 | 35 | 31 | 28 | 28 | 25 | 22 | 21 | 19 | 17 | 14 |
| 4 | 50 | 42 | 35 | 30 | 46 | 38 | 32 | 28 | 31 | 27 | 23 | 24 | 21 | 19 | 18 | 16 | 14 | 11 |
| 5 | 46 | 37 | 30 | 26 | 42 | 34 | 28 | 24 | 27 | 23 | 20 | 22 | 18 | 16 | 16 | 14 | 12 | 9 |
| 6 | 42 | 33 | 27 | 22 | 38 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | 15 | 12 | 10 | 8 |
| 7 | 39 | 29 | 23 | 19 | 35 | 27 | 21 | 18 | 22 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9 | 7 |
| 8 | 36 | 27 | 21 | 17 | 33 | 24 | 19 | 15 | 20 | 16 | 13 | 16 | 13 | 10 | 12 | 10 | 8 | 6 |
| 9 | 33 | 24 | 18 | 15 | 30 | 22 | 17 | 13 | 18 | 14 | 11 | 15 | 11 | 9 | 11 | 9 | 7 | 5 |
| 10 | 31 | 22 | 17 | 13 | 28 | 20 | 15 | 12 | 17 | 13 | 10 | 13 | 10 | 8 | 10 | 8 | 6 | 5 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|------|------|------|
| 0° | 3814 | 3814 | 3814 | 3814 |
| 5° | 4008 | 3393 | 3742 | 3393 |
| 10° | 4440 | 2981 | 4285 | 2981 |
| 15° | 4863 | 2622 | 4379 | 2622 |
| 20° | 5350 | 2333 | 4446 | 2333 |
| 25° | 5823 | 2075 | 4323 | 2075 |
| 30° | 6299 | 1854 | 3780 | 1854 |
| 35° | 6865 | 1644 | 3269 | 1644 |
| 40° | 7418 | 1454 | 2855 | 1454 |
| 45° | 8029 | 1274 | 2542 | 1274 |
| 50° | 8702 | 1100 | 2277 | 1100 |
| 55° | 9393 | 935 | 2041 | 935 |
| 60° | 10240 | 777 | 1962 | 777 |
| 65° | 11109 | 633 | 2042 | 633 |
| 70° | 12163 | 482 | 2105 | 482 |
| 75° | 13472 | 339 | 2200 | 339 |
| 80° | 14994 | 180 | 2555 | 180 |
| 85° | 17075 | 31 | 3104 | 31 |



TEST NUMBER: 20051
 CATALOG NUMBER: 608-18-CF2/27

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 18.0 | 0.7 | 0.5 |
| 10°-20° | 59.6 | 2.3 | 1.7 |
| 20°-30° | 103.3 | 3.9 | 2.9 |
| 30°-40° | 136.8 | 5.2 | 3.8 |
| 40°-50° | 158.5 | 6.0 | 4.4 |
| 50°-60° | 168.2 | 6.4 | 4.7 |
| 60°-70° | 169.3 | 6.4 | 4.7 |
| 70°-80° | 165.7 | 6.3 | 4.6 |
| 80°-90° | 159.0 | 6.0 | 4.4 |
| 90°-100° | 147.5 | 5.6 | 4.1 |
| 100°-110° | 155.2 | 5.9 | 4.3 |
| 110°-120° | 187.3 | 7.1 | 5.2 |
| 120°-130° | 225.2 | 8.6 | 6.3 |
| 130°-140° | 241.5 | 9.2 | 6.7 |
| 140°-150° | 227.2 | 8.6 | 6.3 |
| 150°-160° | 178.5 | 6.8 | 5.0 |
| 160°-170° | 101.7 | 3.9 | 2.8 |
| 170°-180° | 28.8 | 1.1 | 0.8 |
| 0°-30° | 180.9 | 6.9 | 5.0 |
| 0°-40° | 317.7 | 12.1 | 8.8 |
| 0°-60° | 644.4 | 24.5 | 17.9 |
| 0°-90° | 1138.4 | 43.3 | 31.6 |
| 90°-120° | 490.0 | 18.6 | 13.6 |
| 90°-150° | 1183.9 | 45.0 | 32.9 |
| 90°-180° | 1493.0 | 56.7 | 41.5 |
| 0°-180° | 2631.3 | 100.0 | 73.1 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 179 | 179 | 179 | 179 | 179 | |
| 5° | 194 | 183 | 181 | 183 | 194 | 19 |
| 15° | 245 | 175 | 221 | 175 | 245 | 70 |
| 25° | 297 | 161 | 220 | 161 | 297 | 138 |
| 35° | 343 | 141 | 163 | 141 | 343 | 215 |
| 45° | 380 | 117 | 120 | 117 | 380 | 294 |
| 55° | 407 | 89 | 88 | 89 | 407 | 366 |
| 65° | 423 | 60 | 78 | 60 | 423 | 420 |
| 75° | 426 | 31 | 70 | 31 | 426 | 449 |
| 85° | 413 | 3 | 75 | 3 | 413 | 338 |
| 90° | 402 | 0 | 76 | 0 | 402 | 220 |
| 95° | 387 | 11 | 78 | 11 | 387 | 313 |
| 105° | 352 | 53 | 92 | 53 | 352 | 372 |
| 115° | 327 | 98 | 131 | 98 | 327 | 327 |
| 125° | 370 | 147 | 177 | 147 | 370 | 333 |
| 135° | 448 | 189 | 227 | 189 | 448 | 346 |
| 145° | 506 | 223 | 280 | 223 | 506 | 320 |
| 155° | 582 | 245 | 327 | 245 | 582 | 265 |
| 165° | 490 | 258 | 356 | 258 | 490 | 140 |
| 175° | 323 | 264 | 298 | 264 | 323 | 33 |
| 180° | 265 | 265 | 265 | 265 | 265 | |



TEST NUMBER: 20051
 CATALOG NUMBER: 608-18-CF2/27

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 |
| 2.5° | 183.5 | 187.1 | 188.4 | 187.1 | 183.8 | 176.5 | 169.8 | 164.9 | 161.1 | 164.9 | 169.8 |
| 5° | 194.0 | 197.0 | 195.7 | 190.3 | 182.8 | 169.2 | 159.7 | 169.4 | 181.1 | 169.4 | 159.7 |
| 7.5° | 207.9 | 208.5 | 204.4 | 193.6 | 181.8 | 163.0 | 171.1 | 201.9 | 204.1 | 201.9 | 171.1 |
| 10° | 220.3 | 221.2 | 211.7 | 197.6 | 180.4 | 157.6 | 197.6 | 210.9 | 212.6 | 210.9 | 197.6 |
| 12.5° | 233.6 | 232.5 | 219.8 | 200.6 | 178.4 | 156.2 | 205.2 | 212.8 | 214.9 | 212.8 | 205.2 |
| 15° | 245.3 | 243.0 | 228.5 | 203.0 | 174.9 | 167.5 | 206.0 | 214.4 | 220.9 | 214.4 | 206.0 |
| 17.5° | 258.0 | 254.7 | 236.1 | 205.2 | 172.5 | 183.3 | 206.8 | 220.3 | 225.2 | 220.3 | 206.8 |
| 20° | 272.3 | 266.7 | 242.8 | 206.0 | 168.8 | 186.3 | 207.1 | 223.9 | 226.3 | 223.9 | 207.1 |
| 22.5° | 284.5 | 277.4 | 249.4 | 208.7 | 165.7 | 188.4 | 211.4 | 225.5 | 226.9 | 225.5 | 211.4 |
| 25° | 296.7 | 288.1 | 255.8 | 208.7 | 160.8 | 188.9 | 210.6 | 224.4 | 220.3 | 224.4 | 210.6 |
| 27.5° | 308.0 | 298.3 | 261.2 | 210.3 | 156.9 | 185.7 | 210.9 | 213.9 | 205.5 | 213.9 | 210.9 |
| 30° | 318.9 | 308.0 | 267.2 | 210.6 | 152.1 | 183.0 | 208.7 | 198.7 | 191.4 | 198.7 | 208.7 |
| 32.5° | 331.9 | 318.3 | 273.4 | 209.8 | 146.7 | 179.7 | 203.0 | 185.2 | 175.6 | 185.2 | 203.0 |
| 35° | 342.7 | 327.3 | 278.3 | 208.7 | 141.3 | 176.2 | 192.5 | 170.9 | 163.2 | 170.9 | 192.5 |
| 37.5° | 351.6 | 335.6 | 281.9 | 208.5 | 135.1 | 172.2 | 177.6 | 158.1 | 150.5 | 158.1 | 177.6 |
| 40° | 362.2 | 343.3 | 285.3 | 206.2 | 129.7 | 168.9 | 163.8 | 145.9 | 139.4 | 145.9 | 163.8 |
| 42.5° | 371.9 | 351.6 | 289.4 | 204.7 | 123.2 | 165.1 | 150.5 | 134.5 | 130.0 | 134.5 | 150.5 |
| 45° | 380.3 | 358.4 | 291.8 | 202.2 | 116.9 | 159.2 | 137.5 | 124.9 | 120.4 | 124.9 | 137.5 |
| 47.5° | 387.1 | 364.9 | 293.9 | 199.3 | 110.3 | 151.9 | 125.3 | 115.3 | 112.1 | 115.3 | 125.3 |
| 50° | 396.3 | 369.2 | 294.3 | 196.8 | 103.0 | 142.9 | 113.7 | 106.3 | 103.7 | 106.3 | 113.7 |
| 52.5° | 402.8 | 374.7 | 295.6 | 193.0 | 96.8 | 128.1 | 103.7 | 98.6 | 96.1 | 98.6 | 103.7 |
| 55° | 407.4 | 380.3 | 297.8 | 188.9 | 88.6 | 112.3 | 93.1 | 89.9 | 88.5 | 89.9 | 93.1 |
| 57.5° | 412.6 | 384.1 | 298.0 | 184.8 | 82.4 | 97.5 | 85.5 | 84.5 | 84.2 | 84.5 | 85.5 |
| 60° | 418.5 | 385.8 | 296.4 | 179.0 | 74.0 | 83.4 | 77.2 | 78.5 | 80.2 | 78.5 | 77.2 |
| 62.5° | 421.8 | 388.0 | 295.8 | 174.9 | 67.4 | 70.1 | 70.4 | 76.8 | 78.7 | 76.8 | 70.4 |
| 65° | 422.8 | 390.9 | 296.2 | 171.1 | 60.1 | 58.4 | 64.2 | 74.0 | 77.7 | 74.0 | 64.2 |
| 67.5° | 424.4 | 391.4 | 294.3 | 166.2 | 53.6 | 47.3 | 61.2 | 73.6 | 75.3 | 73.6 | 61.2 |
| 70° | 425.2 | 391.2 | 291.5 | 161.1 | 45.3 | 38.1 | 58.8 | 72.3 | 73.6 | 72.3 | 58.8 |
| 72.5° | 426.7 | 389.9 | 288.8 | 155.1 | 38.7 | 30.8 | 57.7 | 70.4 | 71.7 | 70.4 | 57.7 |
| 75° | 425.6 | 388.0 | 285.6 | 149.7 | 31.3 | 26.3 | 55.6 | 68.2 | 69.5 | 68.2 | 55.6 |
| 77.5° | 422.6 | 385.8 | 281.3 | 142.9 | 24.1 | 23.1 | 54.1 | 66.9 | 70.6 | 66.9 | 54.1 |
| 80° | 419.6 | 382.5 | 277.0 | 138.0 | 16.2 | 23.1 | 52.2 | 67.6 | 71.5 | 67.6 | 52.2 |
| 82.5° | 416.9 | 378.2 | 270.7 | 132.6 | 8.9 | 21.4 | 54.1 | 70.1 | 74.0 | 70.1 | 54.1 |
| 85° | 412.6 | 373.9 | 265.8 | 127.2 | 2.7 | 23.8 | 56.0 | 71.0 | 75.0 | 71.0 | 56.0 |
| 87.5° | 406.8 | 367.6 | 262.0 | 120.7 | 0.6 | 26.8 | 58.4 | 72.3 | 75.8 | 72.3 | 58.4 |
| 90° | 402.3 | 363.0 | 256.6 | 114.5 | 0.0 | 29.8 | 59.3 | 71.7 | 75.8 | 71.7 | 59.3 |
| 92.5° | 393.1 | 344.3 | 235.0 | 97.7 | 5.5 | 30.0 | 57.7 | 69.5 | 75.3 | 69.5 | 57.7 |
| 95° | 387.4 | 337.9 | 228.0 | 94.5 | 10.7 | 32.3 | 60.9 | 73.1 | 78.3 | 73.1 | 60.9 |
| 97.5° | 379.8 | 330.0 | 222.5 | 90.7 | 19.8 | 39.0 | 63.6 | 75.8 | 81.2 | 75.8 | 63.6 |
| 100° | 370.0 | 323.2 | 215.8 | 94.2 | 30.5 | 48.5 | 67.6 | 79.1 | 85.0 | 79.1 | 67.6 |
| 102.5° | 361.1 | 314.8 | 208.7 | 107.4 | 41.4 | 60.1 | 75.0 | 81.7 | 87.9 | 81.7 | 75.0 |
| 105° | 352.2 | 305.0 | 205.5 | 128.6 | 53.3 | 72.3 | 84.5 | 89.0 | 91.8 | 89.0 | 84.5 |
| 107.5° | 341.4 | 295.4 | 212.6 | 153.8 | 64.9 | 86.9 | 95.6 | 96.9 | 99.6 | 96.9 | 95.6 |
| 110° | 329.4 | 288.3 | 224.1 | 182.7 | 75.7 | 102.3 | 106.9 | 108.0 | 110.2 | 108.0 | 106.9 |



TEST NUMBER: 20051
 CATALOG NUMBER: 608-18-CF2/27

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 323.4 | 292.4 | 237.7 | 205.2 | 86.6 | 118.3 | 120.0 | 118.5 | 120.4 | 118.5 | 120.0 |
| 115° | 327.0 | 301.6 | 256.1 | 222.8 | 98.1 | 134.1 | 132.4 | 130.5 | 131.1 | 130.5 | 132.4 |
| 117.5° | 333.2 | 311.0 | 276.1 | 243.6 | 110.5 | 152.9 | 145.9 | 142.1 | 141.6 | 142.1 | 145.9 |
| 120° | 342.4 | 323.4 | 296.4 | 269.3 | 122.9 | 169.2 | 158.7 | 154.0 | 153.8 | 154.0 | 158.7 |
| 122.5° | 354.0 | 341.6 | 319.1 | 296.9 | 134.7 | 186.3 | 173.0 | 167.0 | 165.1 | 167.0 | 173.0 |
| 125° | 369.6 | 358.7 | 347.1 | 320.6 | 147.2 | 203.0 | 187.1 | 178.4 | 176.7 | 178.4 | 187.1 |
| 127.5° | 388.4 | 378.4 | 370.6 | 344.6 | 157.9 | 218.8 | 201.4 | 192.5 | 190.3 | 192.5 | 201.4 |
| 130° | 406.0 | 395.7 | 389.9 | 359.3 | 169.2 | 232.8 | 214.9 | 204.4 | 202.2 | 204.4 | 214.9 |
| 132.5° | 423.1 | 424.4 | 404.9 | 366.6 | 179.3 | 246.4 | 231.2 | 218.2 | 214.1 | 218.2 | 231.2 |
| 135° | 448.3 | 447.0 | 420.7 | 371.4 | 189.4 | 258.0 | 245.5 | 230.6 | 227.4 | 230.6 | 245.5 |
| 137.5° | 471.0 | 464.8 | 448.8 | 374.3 | 199.1 | 271.0 | 259.6 | 243.0 | 239.1 | 243.0 | 259.6 |
| 140° | 488.1 | 477.6 | 479.1 | 375.2 | 207.9 | 283.2 | 273.4 | 257.5 | 251.5 | 257.5 | 273.4 |
| 142.5° | 500.3 | 484.5 | 502.7 | 374.1 | 215.5 | 293.4 | 285.6 | 272.9 | 265.8 | 272.9 | 285.6 |
| 145° | 505.7 | 505.7 | 525.1 | 370.0 | 223.2 | 304.6 | 298.3 | 286.2 | 279.6 | 286.2 | 298.3 |
| 147.5° | 520.6 | 530.9 | 539.8 | 366.0 | 229.5 | 313.5 | 308.4 | 298.8 | 292.4 | 298.8 | 308.4 |
| 150° | 545.8 | 552.7 | 533.3 | 359.3 | 235.5 | 321.6 | 317.2 | 311.4 | 306.1 | 311.4 | 317.2 |
| 152.5° | 566.6 | 568.3 | 514.4 | 351.9 | 240.7 | 328.1 | 325.4 | 321.6 | 316.7 | 321.6 | 325.4 |
| 155° | 581.8 | 580.7 | 495.1 | 343.5 | 245.4 | 330.5 | 333.2 | 331.3 | 327.3 | 331.3 | 333.2 |
| 157.5° | 591.0 | 561.4 | 473.5 | 335.1 | 248.8 | 327.5 | 340.8 | 336.5 | 337.1 | 336.5 | 340.8 |
| 160° | 564.2 | 533.0 | 450.0 | 326.2 | 251.8 | 320.0 | 348.2 | 344.1 | 342.0 | 344.1 | 348.2 |
| 162.5° | 528.5 | 500.0 | 423.3 | 318.1 | 255.0 | 311.9 | 354.0 | 351.2 | 349.5 | 351.2 | 354.0 |
| 165° | 490.2 | 461.8 | 397.2 | 309.5 | 257.9 | 304.6 | 354.9 | 356.5 | 355.5 | 356.5 | 354.9 |
| 167.5° | 446.1 | 423.7 | 370.3 | 299.2 | 260.2 | 295.6 | 344.8 | 358.4 | 360.0 | 358.4 | 344.8 |
| 170° | 404.2 | 386.9 | 345.7 | 290.0 | 261.5 | 288.8 | 324.5 | 349.5 | 357.0 | 349.5 | 324.5 |
| 172.5° | 361.1 | 349.5 | 320.2 | 281.0 | 262.8 | 281.3 | 302.4 | 318.1 | 332.2 | 318.1 | 302.4 |
| 175° | 323.0 | 314.8 | 296.2 | 274.5 | 263.5 | 273.7 | 284.2 | 291.5 | 297.5 | 291.5 | 284.2 |
| 177.5° | 286.4 | 282.9 | 277.2 | 269.3 | 264.1 | 266.7 | 268.0 | 268.8 | 272.3 | 268.8 | 268.0 |
| 180° | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 |



TEST NUMBER: 20051
 CATALOG NUMBER: 608-18-CF2/27

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 0° | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 |
| 2.5° | 176.5 | 183.8 | 187.1 | 188.4 | 187.1 | 183.5 |
| 5° | 169.2 | 182.8 | 190.3 | 195.7 | 197.0 | 194.0 |
| 7.5° | 163.0 | 181.8 | 193.6 | 204.4 | 208.5 | 207.9 |
| 10° | 157.6 | 180.4 | 197.6 | 211.7 | 221.2 | 220.3 |
| 12.5° | 156.2 | 178.4 | 200.6 | 219.8 | 232.5 | 233.6 |
| 15° | 167.5 | 174.9 | 203.0 | 228.5 | 243.0 | 245.3 |
| 17.5° | 183.3 | 172.5 | 205.2 | 236.1 | 254.7 | 258.0 |
| 20° | 186.3 | 168.8 | 206.0 | 242.8 | 266.7 | 272.3 |
| 22.5° | 188.4 | 165.7 | 208.7 | 249.4 | 277.4 | 284.5 |
| 25° | 188.9 | 160.8 | 208.7 | 255.8 | 288.1 | 296.7 |
| 27.5° | 185.7 | 156.9 | 210.3 | 261.2 | 298.3 | 308.0 |
| 30° | 183.0 | 152.1 | 210.6 | 267.2 | 308.0 | 318.9 |
| 32.5° | 179.7 | 146.7 | 209.8 | 273.4 | 318.3 | 331.9 |
| 35° | 176.2 | 141.3 | 208.7 | 278.3 | 327.3 | 342.7 |
| 37.5° | 172.2 | 135.1 | 208.5 | 281.9 | 335.6 | 351.6 |
| 40° | 168.9 | 129.7 | 206.2 | 285.3 | 343.3 | 362.2 |
| 42.5° | 165.1 | 123.2 | 204.7 | 289.4 | 351.6 | 371.9 |
| 45° | 159.2 | 116.9 | 202.2 | 291.8 | 358.4 | 380.3 |
| 47.5° | 151.9 | 110.3 | 199.3 | 293.9 | 364.9 | 387.1 |
| 50° | 142.9 | 103.0 | 196.8 | 294.3 | 369.2 | 396.3 |
| 52.5° | 128.1 | 96.8 | 193.0 | 295.6 | 374.7 | 402.8 |
| 55° | 112.3 | 88.6 | 188.9 | 297.8 | 380.3 | 407.4 |
| 57.5° | 97.5 | 82.4 | 184.8 | 298.0 | 384.1 | 412.6 |
| 60° | 83.4 | 74.0 | 179.0 | 296.4 | 385.8 | 418.5 |
| 62.5° | 70.1 | 67.4 | 174.9 | 295.8 | 388.0 | 421.8 |
| 65° | 58.4 | 60.1 | 171.1 | 296.2 | 390.9 | 422.8 |
| 67.5° | 47.3 | 53.6 | 166.2 | 294.3 | 391.4 | 424.4 |
| 70° | 38.1 | 45.3 | 161.1 | 291.5 | 391.2 | 425.2 |
| 72.5° | 30.8 | 38.7 | 155.1 | 288.8 | 389.9 | 426.7 |
| 75° | 26.3 | 31.3 | 149.7 | 285.6 | 388.0 | 425.6 |
| 77.5° | 23.1 | 24.1 | 142.9 | 281.3 | 385.8 | 422.6 |
| 80° | 23.1 | 16.2 | 138.0 | 277.0 | 382.5 | 419.6 |
| 82.5° | 21.4 | 8.9 | 132.6 | 270.7 | 378.2 | 416.9 |
| 85° | 23.8 | 2.7 | 127.2 | 265.8 | 373.9 | 412.6 |
| 87.5° | 26.8 | 0.6 | 120.7 | 262.0 | 367.6 | 406.8 |
| 90° | 29.8 | 0.0 | 114.5 | 256.6 | 363.0 | 402.3 |
| 92.5° | 30.0 | 5.5 | 97.7 | 235.0 | 344.3 | 393.1 |
| 95° | 32.3 | 10.7 | 94.5 | 228.0 | 337.9 | 387.4 |
| 97.5° | 39.0 | 19.8 | 90.7 | 222.5 | 330.0 | 379.8 |
| 100° | 48.5 | 30.5 | 94.2 | 215.8 | 323.2 | 370.0 |
| 102.5° | 60.1 | 41.4 | 107.4 | 208.7 | 314.8 | 361.1 |
| 105° | 72.3 | 53.3 | 128.6 | 205.5 | 305.0 | 352.2 |
| 107.5° | 86.9 | 64.9 | 153.8 | 212.6 | 295.4 | 341.4 |
| 110° | 102.3 | 75.7 | 182.7 | 224.1 | 288.3 | 329.4 |



TEST NUMBER: 20051
 CATALOG NUMBER: 608-18-CF2/27

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 118.3 | 86.6 | 205.2 | 237.7 | 292.4 | 323.4 |
| 115° | 134.1 | 98.1 | 222.8 | 256.1 | 301.6 | 327.0 |
| 117.5° | 152.9 | 110.5 | 243.6 | 276.1 | 311.0 | 333.2 |
| 120° | 169.2 | 122.9 | 269.3 | 296.4 | 323.4 | 342.4 |
| 122.5° | 186.3 | 134.7 | 296.9 | 319.1 | 341.6 | 354.0 |
| 125° | 203.0 | 147.2 | 320.6 | 347.1 | 358.7 | 369.6 |
| 127.5° | 218.8 | 157.9 | 344.6 | 370.6 | 378.4 | 388.4 |
| 130° | 232.8 | 169.2 | 359.3 | 389.9 | 395.7 | 406.0 |
| 132.5° | 246.4 | 179.3 | 366.6 | 404.9 | 424.4 | 423.1 |
| 135° | 258.0 | 189.4 | 371.4 | 420.7 | 447.0 | 448.3 |
| 137.5° | 271.0 | 199.1 | 374.3 | 448.8 | 464.8 | 471.0 |
| 140° | 283.2 | 207.9 | 375.2 | 479.1 | 477.6 | 488.1 |
| 142.5° | 293.4 | 215.5 | 374.1 | 502.7 | 484.5 | 500.3 |
| 145° | 304.6 | 223.2 | 370.0 | 525.1 | 505.7 | 505.7 |
| 147.5° | 313.5 | 229.5 | 366.0 | 539.8 | 530.9 | 520.6 |
| 150° | 321.6 | 235.5 | 359.3 | 533.3 | 552.7 | 545.8 |
| 152.5° | 328.1 | 240.7 | 351.9 | 514.4 | 568.3 | 566.6 |
| 155° | 330.5 | 245.4 | 343.5 | 495.1 | 580.7 | 581.8 |
| 157.5° | 327.5 | 248.8 | 335.1 | 473.5 | 561.4 | 591.0 |
| 160° | 320.0 | 251.8 | 326.2 | 450.0 | 533.0 | 564.2 |
| 162.5° | 311.9 | 255.0 | 318.1 | 423.3 | 500.0 | 528.5 |
| 165° | 304.6 | 257.9 | 309.5 | 397.2 | 461.8 | 490.2 |
| 167.5° | 295.6 | 260.2 | 299.2 | 370.3 | 423.7 | 446.1 |
| 170° | 288.8 | 261.5 | 290.0 | 345.7 | 386.9 | 404.2 |
| 172.5° | 281.3 | 262.8 | 281.0 | 320.2 | 349.5 | 361.1 |
| 175° | 273.7 | 263.5 | 274.5 | 296.2 | 314.8 | 323.0 |
| 177.5° | 266.7 | 264.1 | 269.3 | 277.2 | 282.9 | 286.4 |
| 180° | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 | 264.7 |

(END OF REPORT)