

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: LUMARK

Report Number: P145123

Luminaire Tested: **LDRL-SL3-F01-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145123
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-F01-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2068.4 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

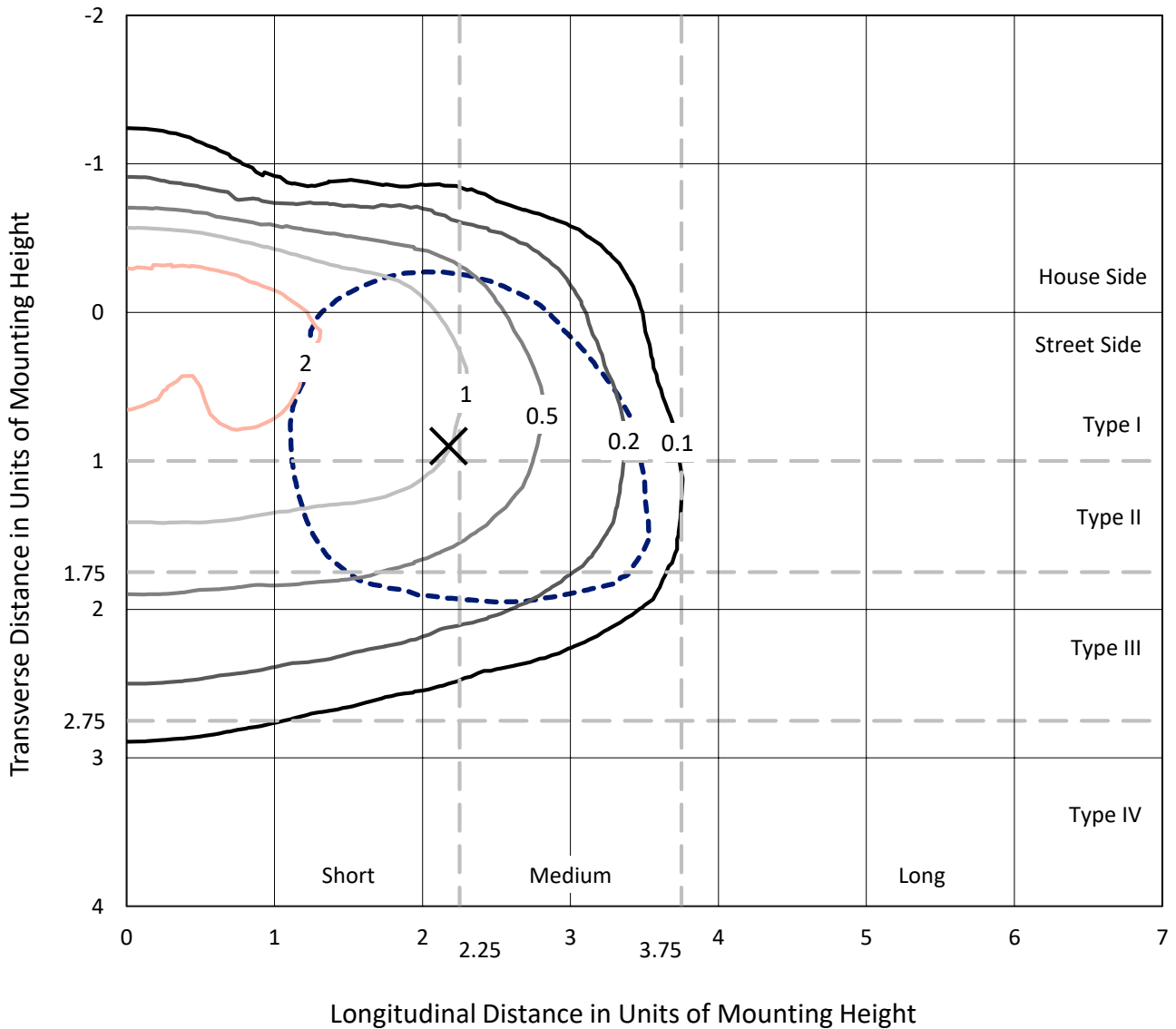
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: LDRL-SL3-F01-E-8030

Iso-Footcandle Lines of Horizontal Illumination

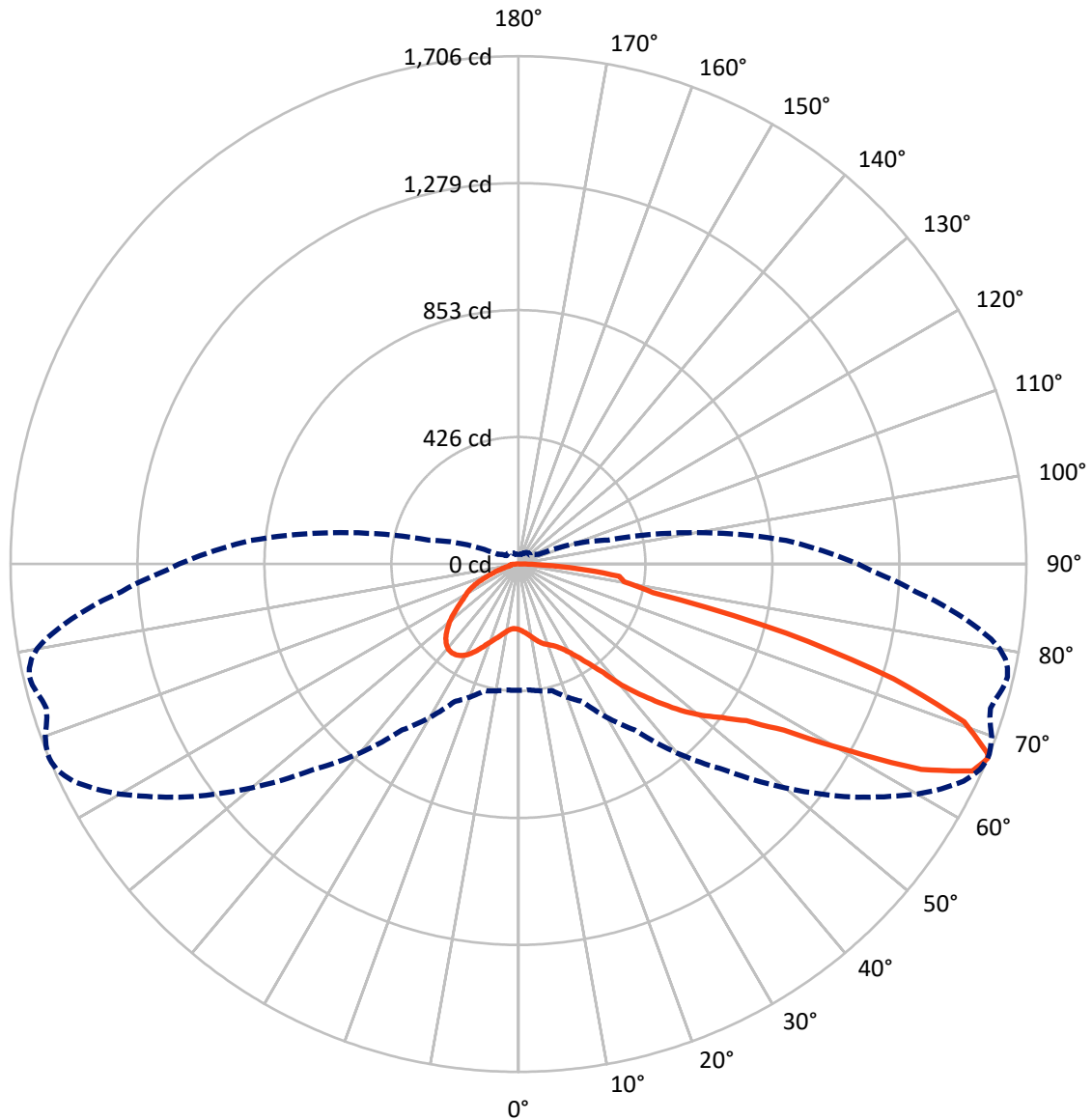
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 489.8 | 0.0 | 489.8 |
| | % Fixture | 23.7 | 0.0 | 23.7 |
| Street Side | Lumens | 1578.6 | 0.0 | 1578.6 |
| | % Fixture | 76.3 | 0.0 | 76.3 |
| Total | Lumens | 2068.4 | 0.0 | 2068.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 22.0 | 1.1 |
| 10°-20° | 75.2 | 3.6 |
| 20°-30° | 133.9 | 6.5 |
| 30°-40° | 195.0 | 9.4 |
| 40°-50° | 300.5 | 14.5 |
| 50°-60° | 440.0 | 21.3 |
| 60°-70° | 584.3 | 28.3 |
| 70°-80° | 275.4 | 13.3 |
| 80°-90° | 42.1 | 2.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 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° | 2068.4 | 100.0 |
| 0°-180° | 2068.4 | 100.0 |



REPORT NUMBER: P145123

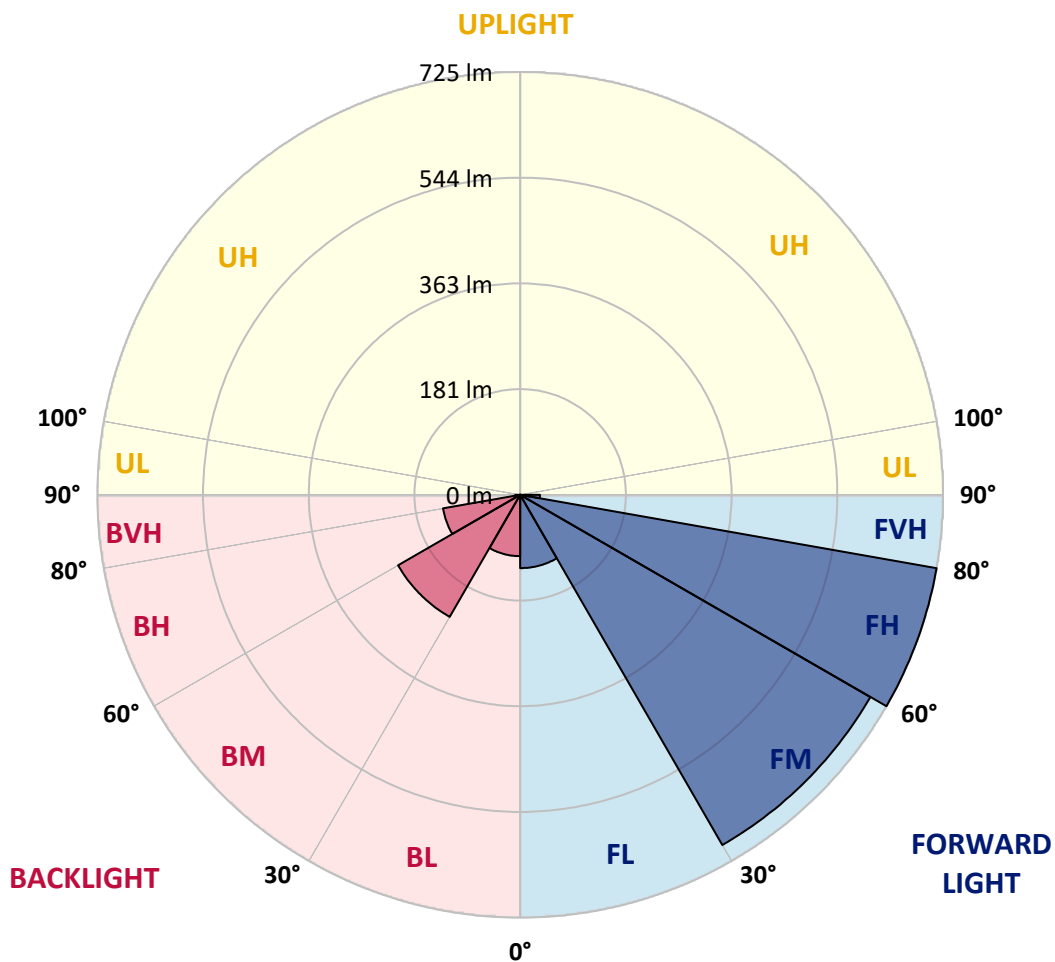
CATALOG NUMBER: LDRL-SL3-F01-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 125.7 | 6.1 | | | |
| FM | (30°-60°) | 693.6 | 33.5 | | | |
| FH | (60°-80°) | 725.3 | 35.1 | | | G1/1800 |
| FVH | (80°-90°) | 33.9 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 105.3 | 5.1 | B0/110 | | |
| BM | (30°-60°) | 241.9 | 11.7 | B1/1000 | | |
| BH | (60°-80°) | 134.5 | 6.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.2 | 0.4 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P145123
 CATALOG NUMBER: LDRL-SL3-F01-E-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 |
| 2.5° | 231.0 | 230.1 | 230.2 | 230.6 | 229.2 | 228.5 | 227.0 | 226.0 | 225.9 | 225.7 | 225.2 |
| 5° | 244.6 | 243.6 | 244.0 | 242.9 | 240.2 | 238.4 | 235.2 | 233.5 | 233.3 | 233.0 | 232.3 |
| 7.5° | 258.6 | 257.4 | 256.0 | 254.7 | 251.8 | 248.9 | 244.7 | 242.2 | 241.9 | 241.5 | 241.1 |
| 10° | 275.3 | 273.5 | 272.4 | 268.5 | 263.5 | 259.5 | 255.3 | 252.6 | 252.5 | 252.1 | 251.2 |
| 12.5° | 294.2 | 292.2 | 290.1 | 285.0 | 277.2 | 271.2 | 266.3 | 264.8 | 263.5 | 263.6 | 262.8 |
| 15° | 312.8 | 310.7 | 308.0 | 301.4 | 291.1 | 282.2 | 275.9 | 273.7 | 273.8 | 273.1 | 273.5 |
| 17.5° | 328.6 | 326.8 | 322.7 | 314.4 | 302.4 | 290.1 | 282.2 | 281.2 | 281.5 | 281.3 | 281.8 |
| 20° | 338.9 | 337.8 | 331.6 | 321.6 | 308.1 | 294.6 | 286.5 | 286.5 | 286.6 | 287.2 | 288.2 |
| 22.5° | 345.2 | 343.5 | 335.4 | 321.3 | 308.0 | 296.7 | 290.4 | 291.8 | 292.6 | 293.0 | 294.6 |
| 25° | 348.6 | 346.6 | 335.5 | 316.9 | 303.2 | 298.2 | 296.3 | 299.7 | 301.1 | 301.8 | 304.3 |
| 27.5° | 348.6 | 346.1 | 333.7 | 311.3 | 297.8 | 302.8 | 307.4 | 313.4 | 314.4 | 316.5 | 319.4 |
| 30° | 344.7 | 342.8 | 330.9 | 307.1 | 296.4 | 311.4 | 325.4 | 332.2 | 334.6 | 336.9 | 340.7 |
| 32.5° | 340.6 | 338.9 | 329.6 | 309.4 | 304.2 | 329.6 | 352.8 | 362.2 | 363.6 | 365.5 | 369.4 |
| 35° | 340.3 | 339.7 | 335.7 | 323.6 | 327.7 | 362.7 | 394.2 | 400.6 | 404.5 | 405.5 | 407.2 |
| 37.5° | 343.2 | 344.3 | 347.8 | 346.6 | 361.6 | 412.0 | 448.4 | 461.2 | 464.3 | 462.6 | 464.2 |
| 40° | 350.0 | 352.8 | 365.8 | 381.8 | 413.3 | 471.7 | 522.3 | 537.0 | 540.4 | 539.4 | 539.0 |
| 42.5° | 371.6 | 375.4 | 394.5 | 428.8 | 467.1 | 533.4 | 590.8 | 606.7 | 607.8 | 608.4 | 604.8 |
| 45° | 405.5 | 407.6 | 433.0 | 476.7 | 525.3 | 599.9 | 659.3 | 676.9 | 676.3 | 673.5 | 670.8 |
| 47.5° | 444.0 | 448.3 | 478.7 | 531.6 | 585.5 | 661.3 | 728.5 | 745.8 | 747.3 | 744.8 | 739.9 |
| 50° | 478.9 | 482.3 | 516.6 | 579.4 | 638.6 | 712.5 | 786.9 | 804.3 | 804.0 | 805.4 | 806.8 |
| 52.5° | 506.5 | 509.6 | 542.2 | 611.3 | 677.6 | 755.4 | 830.9 | 852.4 | 855.7 | 858.0 | 860.7 |
| 55° | 520.7 | 523.9 | 554.0 | 624.6 | 701.3 | 797.3 | 881.8 | 912.6 | 918.3 | 923.3 | 927.9 |
| 57.5° | 521.0 | 525.2 | 552.8 | 623.6 | 713.6 | 834.8 | 949.1 | 1004.4 | 1012.5 | 1025.3 | 1041.1 |
| 60° | 512.5 | 518.4 | 543.2 | 614.5 | 727.7 | 882.3 | 1060.0 | 1165.9 | 1181.8 | 1204.2 | 1224.4 |
| 62.5° | 490.4 | 496.2 | 518.4 | 591.5 | 744.1 | 943.2 | 1220.3 | 1375.5 | 1409.4 | 1434.2 | 1474.2 |
| 65° | 455.4 | 461.0 | 479.6 | 553.5 | 731.0 | 991.3 | 1339.7 | 1525.9 | 1560.4 | 1591.5 | 1638.4 |
| 67° | 424.2 | 424.7 | 440.5 | 509.9 | 680.0 | 976.4 | 1363.7 | 1545.9 | 1577.8 | 1609.3 | 1663.8 |
| 67.5° | 413.2 | 416.2 | 428.5 | 495.4 | 660.6 | 965.4 | 1354.2 | 1535.0 | 1566.0 | 1599.6 | 1655.2 |
| 70° | 334.0 | 334.9 | 346.7 | 395.2 | 524.2 | 800.4 | 1216.4 | 1396.4 | 1417.6 | 1466.8 | 1521.4 |
| 72.5° | 203.7 | 202.3 | 206.1 | 242.0 | 345.0 | 554.3 | 973.9 | 1149.6 | 1178.6 | 1220.5 | 1257.5 |
| 75° | 112.2 | 118.9 | 123.5 | 148.4 | 193.8 | 325.9 | 663.2 | 831.8 | 874.3 | 899.2 | 906.6 |
| 77.5° | 68.6 | 68.0 | 70.1 | 95.7 | 159.0 | 223.0 | 366.3 | 488.0 | 511.7 | 518.8 | 491.3 |
| 80° | 32.6 | 33.9 | 33.4 | 39.4 | 77.1 | 188.1 | 256.1 | 313.4 | 325.4 | 332.2 | 341.1 |
| 82.5° | 17.8 | 18.5 | 21.0 | 23.5 | 30.4 | 81.0 | 221.0 | 289.0 | 297.1 | 308.8 | 321.9 |
| 85° | 11.1 | 11.7 | 16.2 | 17.0 | 18.7 | 24.9 | 92.1 | 168.9 | 175.7 | 199.0 | 206.4 |
| 87.5° | 4.6 | 5.0 | 8.8 | 7.9 | 9.5 | 8.8 | 27.9 | 42.9 | 45.6 | 48.5 | 53.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P145123

CATALOG NUMBER: LDRL-SL3-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 67.5° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 |
| 2.5° | 225.3 | 225.2 | 224.6 | 224.5 | 224.8 | 224.8 | 224.5 | 224.1 | 223.9 | 223.8 | 223.5 |
| 5° | 232.0 | 231.7 | 231.3 | 231.0 | 230.9 | 230.9 | 230.5 | 230.1 | 229.6 | 229.1 | 228.9 |
| 7.5° | 240.0 | 240.0 | 239.8 | 239.4 | 239.0 | 238.4 | 238.0 | 237.6 | 237.2 | 236.9 | 236.5 |
| 10° | 250.4 | 251.0 | 250.0 | 249.7 | 249.6 | 248.7 | 248.6 | 248.2 | 247.9 | 247.2 | 247.2 |
| 12.5° | 262.8 | 262.3 | 262.1 | 261.6 | 261.6 | 261.1 | 261.0 | 260.9 | 260.6 | 260.0 | 259.9 |
| 15° | 273.1 | 273.1 | 273.0 | 272.7 | 273.0 | 272.7 | 272.3 | 272.6 | 272.1 | 272.3 | 271.9 |
| 17.5° | 281.5 | 282.0 | 281.9 | 282.0 | 281.9 | 281.9 | 282.2 | 282.2 | 282.5 | 281.9 | 282.0 |
| 20° | 288.4 | 289.3 | 289.7 | 289.4 | 289.7 | 289.8 | 290.5 | 290.8 | 291.2 | 291.5 | 291.5 |
| 22.5° | 295.7 | 296.8 | 297.6 | 297.6 | 298.2 | 298.8 | 300.0 | 300.3 | 301.3 | 301.1 | 301.8 |
| 25° | 305.9 | 307.7 | 308.2 | 309.1 | 309.8 | 310.7 | 312.3 | 313.0 | 313.4 | 314.4 | 315.5 |
| 27.5° | 321.5 | 323.7 | 324.1 | 325.1 | 326.9 | 327.5 | 329.1 | 329.8 | 331.4 | 333.5 | 333.9 |
| 30° | 342.8 | 345.6 | 345.7 | 346.8 | 348.9 | 349.6 | 351.0 | 352.8 | 354.1 | 356.2 | 356.3 |
| 32.5° | 371.8 | 374.6 | 374.1 | 376.2 | 376.1 | 378.2 | 377.8 | 380.6 | 381.7 | 382.8 | 385.9 |
| 35° | 410.4 | 410.1 | 412.2 | 412.9 | 412.5 | 414.1 | 413.9 | 415.1 | 416.2 | 416.2 | 419.6 |
| 37.5° | 466.0 | 465.6 | 465.3 | 462.4 | 461.7 | 461.8 | 461.2 | 462.4 | 460.5 | 460.5 | 464.2 |
| 40° | 540.5 | 538.0 | 536.1 | 534.1 | 532.2 | 529.5 | 527.3 | 526.7 | 523.7 | 523.5 | 522.1 |
| 42.5° | 605.3 | 603.0 | 601.6 | 597.8 | 595.8 | 595.4 | 590.0 | 588.5 | 587.6 | 588.2 | 586.8 |
| 45° | 673.3 | 670.8 | 665.5 | 663.8 | 663.3 | 660.4 | 659.5 | 655.8 | 654.7 | 656.6 | 655.9 |
| 47.5° | 743.4 | 739.8 | 736.9 | 734.9 | 734.2 | 731.7 | 728.1 | 731.2 | 729.6 | 728.5 | 726.4 |
| 50° | 806.4 | 802.4 | 802.4 | 798.9 | 799.4 | 797.8 | 794.0 | 794.8 | 790.5 | 792.2 | 791.1 |
| 52.5° | 859.2 | 859.5 | 860.9 | 857.0 | 857.7 | 857.7 | 856.4 | 852.4 | 853.5 | 852.9 | 855.6 |
| 55° | 926.4 | 931.0 | 928.5 | 929.2 | 930.0 | 933.9 | 936.7 | 934.3 | 930.4 | 933.5 | 942.0 |
| 57.5° | 1043.8 | 1048.0 | 1050.5 | 1052.5 | 1055.7 | 1057.5 | 1072.6 | 1074.6 | 1070.2 | 1079.4 | 1098.3 |
| 60° | 1248.1 | 1253.1 | 1260.7 | 1270.6 | 1272.7 | 1285.3 | 1293.1 | 1302.3 | 1305.7 | 1313.6 | 1334.0 |
| 62.5° | 1493.8 | 1505.1 | 1506.5 | 1519.0 | 1528.8 | 1516.9 | 1520.0 | 1531.3 | 1518.5 | 1536.0 | 1536.9 |
| 65° | 1654.6 | 1671.1 | 1671.6 | 1676.2 | 1679.8 | 1668.7 | 1663.7 | 1658.6 | 1646.5 | 1645.8 | 1658.0 |
| 67° | 1682.2 | 1697.2 | 1703.5 | 1705.7 | 1705.2 | 1699.5 | 1691.3 | 1676.8 | 1665.1 | 1658.4 | 1663.4 |
| 67.5° | 1674.4 | 1689.2 | 1697.9 | 1700.0 | 1700.2 | 1694.6 | 1687.1 | 1671.3 | 1660.3 | 1652.8 | 1658.1 |
| 70° | 1546.2 | 1580.8 | 1595.8 | 1588.0 | 1592.5 | 1592.5 | 1592.2 | 1577.7 | 1572.3 | 1565.0 | 1562.2 |
| 72.5° | 1285.6 | 1309.6 | 1328.7 | 1318.5 | 1319.8 | 1329.2 | 1327.0 | 1328.5 | 1312.9 | 1311.3 | 1285.5 |
| 75° | 920.9 | 928.6 | 922.2 | 929.4 | 890.4 | 876.5 | 852.8 | 818.2 | 809.2 | 794.8 | 751.9 |
| 77.5° | 489.2 | 480.6 | 463.5 | 462.1 | 446.1 | 433.6 | 418.3 | 408.3 | 382.9 | 368.9 | 336.7 |
| 80° | 345.6 | 349.8 | 356.3 | 360.2 | 363.8 | 366.6 | 360.9 | 344.9 | 323.7 | 300.0 | 277.6 |
| 82.5° | 330.1 | 335.8 | 339.7 | 341.7 | 340.3 | 335.8 | 322.7 | 307.4 | 279.1 | 258.6 | 234.4 |
| 85° | 208.2 | 212.8 | 204.8 | 203.2 | 206.7 | 178.5 | 163.0 | 150.5 | 121.9 | 113.4 | 100.2 |
| 87.5° | 55.9 | 58.9 | 59.1 | 57.3 | 56.2 | 49.5 | 43.8 | 38.7 | 32.0 | 30.1 | 24.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P145123
 CATALOG NUMBER: LDRL-SL3-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 |
| 2.5° | 223.5 | 223.4 | 223.4 | 223.0 | 222.7 | 222.5 | 222.4 | 222.0 | 221.7 | 221.7 | 221.6 |
| 5° | 228.8 | 228.5 | 228.1 | 228.0 | 227.4 | 227.1 | 226.6 | 226.3 | 225.9 | 225.6 | 225.5 |
| 7.5° | 236.3 | 235.6 | 234.8 | 234.9 | 234.1 | 233.7 | 233.4 | 232.8 | 232.4 | 232.0 | 231.9 |
| 10° | 246.4 | 246.2 | 245.4 | 245.7 | 244.1 | 244.8 | 243.4 | 243.6 | 242.7 | 241.9 | 241.8 |
| 12.5° | 259.2 | 259.0 | 258.2 | 257.2 | 257.0 | 257.1 | 256.3 | 256.4 | 255.4 | 255.1 | 254.9 |
| 15° | 271.4 | 271.2 | 270.8 | 270.1 | 269.6 | 269.5 | 269.2 | 268.9 | 268.1 | 268.1 | 267.1 |
| 17.5° | 282.0 | 282.2 | 281.6 | 281.1 | 280.8 | 280.4 | 280.2 | 280.2 | 279.5 | 278.8 | 279.0 |
| 20° | 291.4 | 291.7 | 291.7 | 291.2 | 291.4 | 291.1 | 291.0 | 291.2 | 290.5 | 290.3 | 289.8 |
| 22.5° | 301.8 | 301.8 | 302.0 | 302.2 | 302.7 | 302.8 | 302.8 | 302.5 | 302.1 | 302.0 | 301.1 |
| 25° | 316.3 | 315.8 | 316.5 | 316.7 | 316.7 | 317.4 | 317.2 | 317.3 | 317.4 | 317.0 | 316.6 |
| 27.5° | 334.6 | 334.0 | 335.4 | 336.4 | 336.2 | 336.7 | 337.5 | 336.5 | 337.1 | 337.5 | 336.5 |
| 30° | 357.0 | 358.4 | 359.4 | 360.1 | 359.8 | 361.0 | 361.5 | 361.3 | 360.9 | 361.6 | 361.6 |
| 32.5° | 385.6 | 384.9 | 387.4 | 388.9 | 389.1 | 388.8 | 389.5 | 390.3 | 389.6 | 390.7 | 390.2 |
| 35° | 419.6 | 420.0 | 420.5 | 422.2 | 422.9 | 421.8 | 422.9 | 423.9 | 423.6 | 423.8 | 424.3 |
| 37.5° | 463.5 | 464.2 | 463.6 | 463.7 | 463.5 | 468.8 | 469.6 | 470.4 | 469.5 | 468.6 | 471.1 |
| 40° | 524.4 | 524.4 | 524.2 | 526.0 | 523.0 | 526.3 | 525.3 | 527.7 | 530.2 | 528.8 | 532.6 |
| 42.5° | 584.3 | 587.6 | 587.9 | 585.3 | 587.5 | 591.1 | 591.1 | 592.6 | 594.9 | 592.6 | 596.3 |
| 45° | 653.0 | 657.2 | 656.5 | 660.9 | 657.6 | 661.8 | 662.5 | 660.5 | 665.4 | 665.9 | 664.5 |
| 47.5° | 727.9 | 728.8 | 728.9 | 730.5 | 731.2 | 734.5 | 734.4 | 738.0 | 736.9 | 731.3 | 733.2 |
| 50° | 792.2 | 794.3 | 795.4 | 796.4 | 799.9 | 802.2 | 805.4 | 806.0 | 805.1 | 803.5 | 801.9 |
| 52.5° | 856.4 | 861.4 | 864.6 | 873.3 | 878.7 | 883.0 | 888.3 | 890.3 | 889.3 | 888.9 | 882.8 |
| 55° | 942.4 | 954.4 | 972.9 | 984.9 | 998.0 | 1005.7 | 1011.8 | 1014.9 | 1012.6 | 1013.8 | 1001.1 |
| 57.5° | 1104.3 | 1132.5 | 1148.6 | 1169.1 | 1192.3 | 1201.9 | 1204.5 | 1215.4 | 1203.4 | 1191.4 | 1181.8 |
| 60° | 1345.0 | 1370.9 | 1400.3 | 1421.3 | 1429.1 | 1455.8 | 1443.2 | 1429.1 | 1416.3 | 1391.5 | 1363.5 |
| 62.5° | 1562.2 | 1595.7 | 1610.7 | 1630.4 | 1625.1 | 1622.8 | 1614.5 | 1592.0 | 1564.6 | 1527.7 | 1490.3 |
| 65° | 1669.4 | 1688.2 | 1697.5 | 1703.9 | 1697.9 | 1682.5 | 1654.9 | 1621.7 | 1582.4 | 1534.6 | 1485.6 |
| 67° | 1673.7 | 1682.3 | 1685.4 | 1679.3 | 1665.9 | 1641.8 | 1607.0 | 1560.0 | 1511.6 | 1456.9 | 1401.7 |
| 67.5° | 1666.6 | 1672.3 | 1673.8 | 1664.2 | 1648.3 | 1622.3 | 1585.1 | 1534.9 | 1483.5 | 1426.6 | 1371.2 |
| 70° | 1569.6 | 1565.4 | 1551.9 | 1538.7 | 1489.1 | 1454.1 | 1389.3 | 1335.8 | 1264.4 | 1212.2 | 1153.0 |
| 72.5° | 1275.2 | 1256.1 | 1243.0 | 1184.5 | 1124.5 | 1089.8 | 1020.2 | 956.2 | 891.1 | 841.4 | 805.0 |
| 75° | 715.8 | 701.9 | 665.5 | 634.6 | 585.1 | 539.8 | 507.4 | 466.7 | 427.7 | 404.5 | 387.5 |
| 77.5° | 323.4 | 283.6 | 256.1 | 221.4 | 178.9 | 143.8 | 106.7 | 98.7 | 84.2 | 80.5 | 72.6 |
| 80° | 252.4 | 223.8 | 187.8 | 148.1 | 104.5 | 70.2 | 51.6 | 43.8 | 41.1 | 39.4 | 38.6 |
| 82.5° | 210.6 | 173.5 | 146.0 | 103.7 | 66.3 | 44.6 | 33.6 | 30.4 | 28.4 | 27.0 | 25.8 |
| 85° | 90.0 | 71.2 | 58.7 | 41.9 | 29.8 | 23.5 | 20.6 | 18.8 | 17.0 | 15.5 | 14.5 |
| 87.5° | 21.0 | 16.2 | 14.8 | 12.5 | 11.8 | 11.7 | 11.6 | 11.0 | 10.3 | 9.5 | 8.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P145123

CATALOG NUMBER: LDRL-SL3-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 |
| 2.5° | 221.4 | 221.3 | 221.0 | 220.6 | 220.6 | 220.0 | 218.2 | 217.0 | 215.6 | 214.7 | 213.9 |
| 5° | 225.2 | 225.0 | 224.3 | 223.9 | 223.7 | 222.5 | 219.5 | 217.1 | 214.6 | 212.8 | 211.4 |
| 7.5° | 231.5 | 231.0 | 230.5 | 230.2 | 229.4 | 228.0 | 223.5 | 220.2 | 216.5 | 213.6 | 211.3 |
| 10° | 241.6 | 240.9 | 240.1 | 239.3 | 239.5 | 237.3 | 232.2 | 227.3 | 222.0 | 217.4 | 214.2 |
| 12.5° | 254.0 | 254.0 | 253.6 | 253.1 | 252.1 | 249.6 | 242.6 | 236.9 | 230.5 | 224.8 | 222.4 |
| 15° | 267.1 | 266.4 | 265.7 | 264.9 | 264.8 | 261.4 | 255.1 | 248.6 | 241.9 | 237.0 | 234.2 |
| 17.5° | 277.9 | 278.1 | 277.2 | 276.9 | 276.6 | 273.3 | 266.6 | 260.7 | 255.8 | 250.7 | 246.2 |
| 20° | 289.3 | 288.7 | 288.4 | 288.0 | 287.9 | 285.1 | 279.8 | 276.2 | 271.9 | 264.1 | 252.4 |
| 22.5° | 301.5 | 300.9 | 301.1 | 300.3 | 300.2 | 298.2 | 294.3 | 293.2 | 286.8 | 270.3 | 250.0 |
| 25° | 317.4 | 316.2 | 316.6 | 316.6 | 316.7 | 314.9 | 314.5 | 312.6 | 296.4 | 268.8 | 240.5 |
| 27.5° | 336.4 | 336.9 | 336.9 | 336.8 | 335.8 | 336.4 | 338.3 | 331.6 | 299.7 | 260.7 | 226.3 |
| 30° | 361.0 | 361.3 | 361.6 | 362.6 | 360.5 | 364.1 | 366.5 | 345.2 | 297.2 | 249.6 | 208.5 |
| 32.5° | 391.0 | 389.9 | 390.5 | 391.0 | 391.7 | 395.5 | 394.1 | 352.0 | 289.8 | 234.4 | 186.3 |
| 35° | 424.0 | 426.1 | 426.7 | 427.9 | 429.3 | 435.0 | 419.0 | 353.4 | 278.6 | 214.0 | 158.0 |
| 37.5° | 473.2 | 476.6 | 476.6 | 481.0 | 478.4 | 485.3 | 441.3 | 350.0 | 261.4 | 185.7 | 126.1 |
| 40° | 535.2 | 536.8 | 538.3 | 538.9 | 537.5 | 536.6 | 455.9 | 341.8 | 237.3 | 150.2 | 92.2 |
| 42.5° | 598.5 | 597.9 | 598.1 | 599.1 | 595.3 | 579.5 | 465.0 | 327.5 | 207.3 | 112.2 | 66.2 |
| 45° | 666.6 | 664.3 | 663.6 | 661.6 | 658.3 | 625.1 | 470.2 | 307.3 | 167.9 | 78.9 | 52.0 |
| 47.5° | 733.0 | 730.0 | 725.6 | 720.1 | 713.7 | 661.8 | 469.6 | 281.1 | 128.8 | 56.4 | 45.8 |
| 50° | 801.0 | 795.8 | 786.2 | 780.9 | 770.0 | 698.1 | 466.4 | 251.9 | 92.7 | 46.7 | 42.9 |
| 52.5° | 878.7 | 869.5 | 860.6 | 850.0 | 832.0 | 742.9 | 461.5 | 219.2 | 67.6 | 42.8 | 41.0 |
| 55° | 994.7 | 979.6 | 965.0 | 943.0 | 925.5 | 802.8 | 453.3 | 183.9 | 53.4 | 41.2 | 39.9 |
| 57.5° | 1154.5 | 1128.9 | 1110.3 | 1080.6 | 1052.8 | 885.7 | 444.5 | 151.9 | 47.7 | 40.8 | 39.3 |
| 60° | 1334.4 | 1295.8 | 1261.2 | 1224.7 | 1193.0 | 989.2 | 439.9 | 126.8 | 46.4 | 41.2 | 39.4 |
| 62.5° | 1447.3 | 1401.7 | 1358.5 | 1313.9 | 1268.2 | 1038.7 | 420.0 | 109.5 | 47.0 | 43.1 | 40.6 |
| 65° | 1433.0 | 1382.7 | 1335.8 | 1281.4 | 1238.4 | 992.0 | 369.3 | 92.7 | 47.9 | 46.3 | 43.6 |
| 67° | 1337.2 | 1288.4 | 1234.9 | 1181.7 | 1139.9 | 903.2 | 311.7 | 78.0 | 49.1 | 49.9 | 47.0 |
| 67.5° | 1311.5 | 1256.6 | 1202.7 | 1153.8 | 1108.5 | 875.8 | 296.7 | 74.4 | 49.3 | 50.9 | 48.1 |
| 70° | 1093.7 | 1050.3 | 987.1 | 950.9 | 918.2 | 710.0 | 221.3 | 57.8 | 50.2 | 55.2 | 53.4 |
| 72.5° | 765.3 | 723.2 | 690.2 | 670.4 | 651.3 | 515.9 | 155.7 | 46.1 | 48.9 | 57.6 | 55.7 |
| 75° | 386.5 | 376.9 | 365.4 | 359.0 | 359.2 | 299.9 | 93.8 | 39.3 | 46.0 | 55.2 | 50.6 |
| 77.5° | 76.4 | 74.4 | 75.2 | 82.4 | 81.1 | 92.4 | 46.5 | 33.3 | 39.2 | 42.5 | 36.4 |
| 80° | 36.9 | 35.7 | 34.6 | 34.3 | 33.6 | 32.2 | 29.3 | 27.7 | 31.8 | 28.0 | 24.1 |
| 82.5° | 24.0 | 22.6 | 22.0 | 20.9 | 21.0 | 22.9 | 25.5 | 26.6 | 25.8 | 19.4 | 16.3 |
| 85° | 13.5 | 13.4 | 13.1 | 13.4 | 13.9 | 18.3 | 27.3 | 24.9 | 20.8 | 13.7 | 12.3 |
| 87.5° | 8.1 | 7.7 | 7.8 | 7.9 | 8.2 | 13.5 | 21.6 | 18.0 | 13.2 | 7.1 | 7.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P145123

CATALOG NUMBER: LDRL-SL3-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 220.0 | 220.0 | 220.0 | 220.0 |
| 2.5° | 213.8 | 213.2 | 213.2 | 213.1 |
| 5° | 210.3 | 209.4 | 209.3 | 209.3 |
| 7.5° | 209.7 | 208.6 | 208.5 | 208.0 |
| 10° | 212.2 | 211.8 | 211.9 | 211.5 |
| 12.5° | 220.2 | 220.7 | 221.3 | 221.3 |
| 15° | 232.3 | 231.9 | 232.6 | 231.9 |
| 17.5° | 241.2 | 237.6 | 236.8 | 236.3 |
| 20° | 241.5 | 234.0 | 231.5 | 231.0 |
| 22.5° | 232.8 | 221.7 | 217.5 | 216.8 |
| 25° | 218.2 | 204.1 | 198.8 | 198.3 |
| 27.5° | 199.8 | 184.1 | 176.3 | 176.0 |
| 30° | 177.7 | 159.0 | 149.1 | 147.6 |
| 32.5° | 150.6 | 128.5 | 118.0 | 114.7 |
| 35° | 119.4 | 96.7 | 87.0 | 86.7 |
| 37.5° | 89.2 | 71.5 | 65.2 | 64.9 |
| 40° | 65.4 | 56.2 | 53.8 | 53.4 |
| 42.5° | 53.4 | 49.6 | 48.6 | 48.2 |
| 45° | 47.8 | 46.3 | 45.7 | 45.3 |
| 47.5° | 44.5 | 43.5 | 43.1 | 43.1 |
| 50° | 41.8 | 41.5 | 41.2 | 41.2 |
| 52.5° | 40.0 | 39.9 | 39.6 | 39.4 |
| 55° | 38.5 | 37.9 | 38.0 | 37.9 |
| 57.5° | 37.5 | 36.6 | 36.6 | 36.6 |
| 60° | 36.9 | 35.4 | 35.4 | 35.5 |
| 62.5° | 37.1 | 34.7 | 34.6 | 34.6 |
| 65° | 38.2 | 34.3 | 33.4 | 33.6 |
| 67° | 39.6 | 33.9 | 32.2 | 32.0 |
| 67.5° | 40.0 | 33.6 | 31.8 | 31.6 |
| 70° | 41.7 | 32.7 | 29.7 | 29.4 |
| 72.5° | 41.9 | 31.5 | 27.6 | 27.3 |
| 75° | 39.0 | 29.8 | 25.9 | 25.2 |
| 77.5° | 30.4 | 25.6 | 23.4 | 23.4 |
| 80° | 21.3 | 19.6 | 16.7 | 16.6 |
| 82.5° | 15.6 | 14.8 | 12.3 | 12.0 |
| 85° | 11.4 | 10.7 | 9.1 | 9.1 |
| 87.5° | 7.1 | 6.8 | 5.9 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)