

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: P143734

Luminaire Tested: **LDRV-5MQ-F02-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143734
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRV-5MQ-F02-E-7030
Description: RIDGEVIEW LED AREA/SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4686.3 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

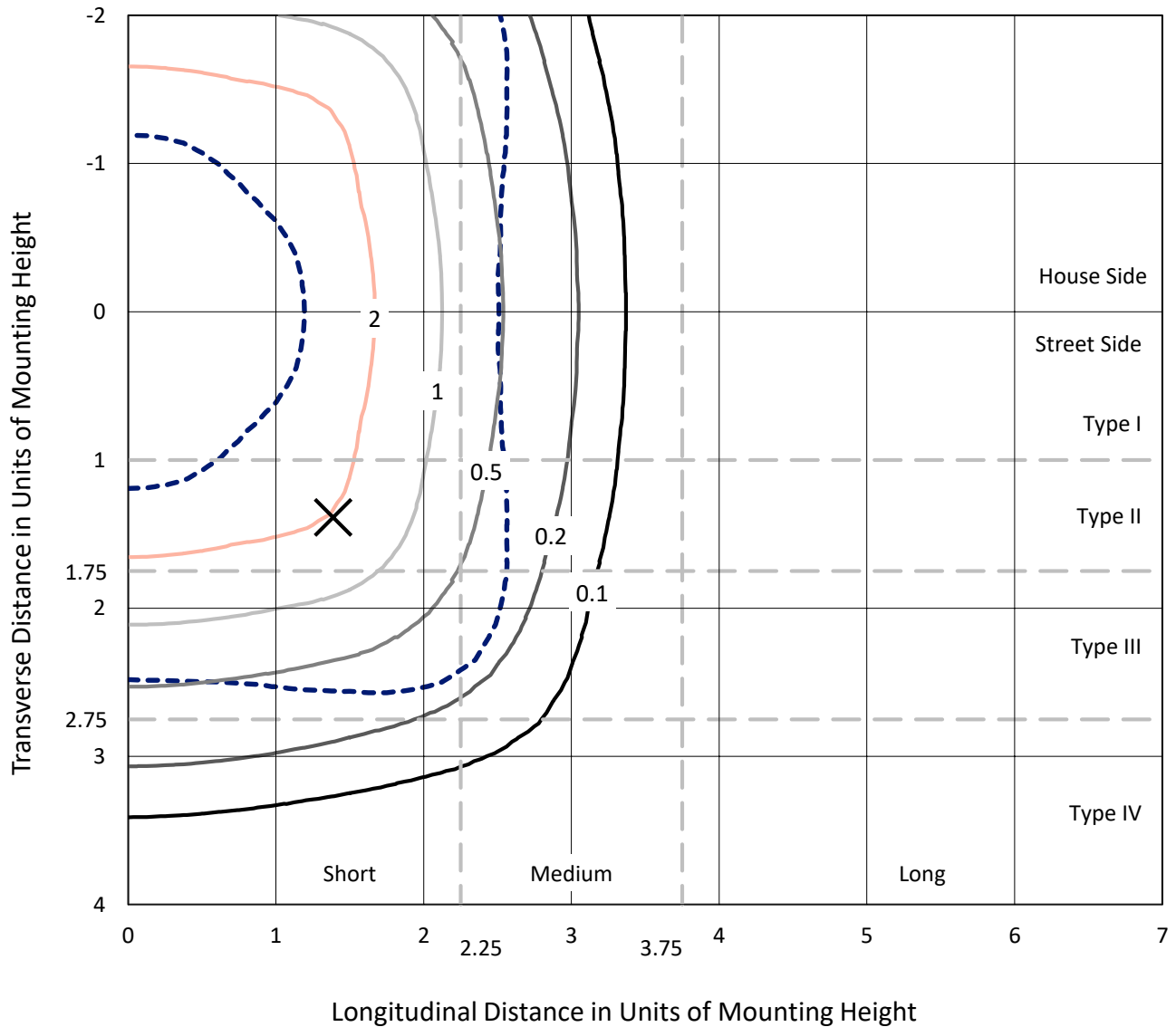
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

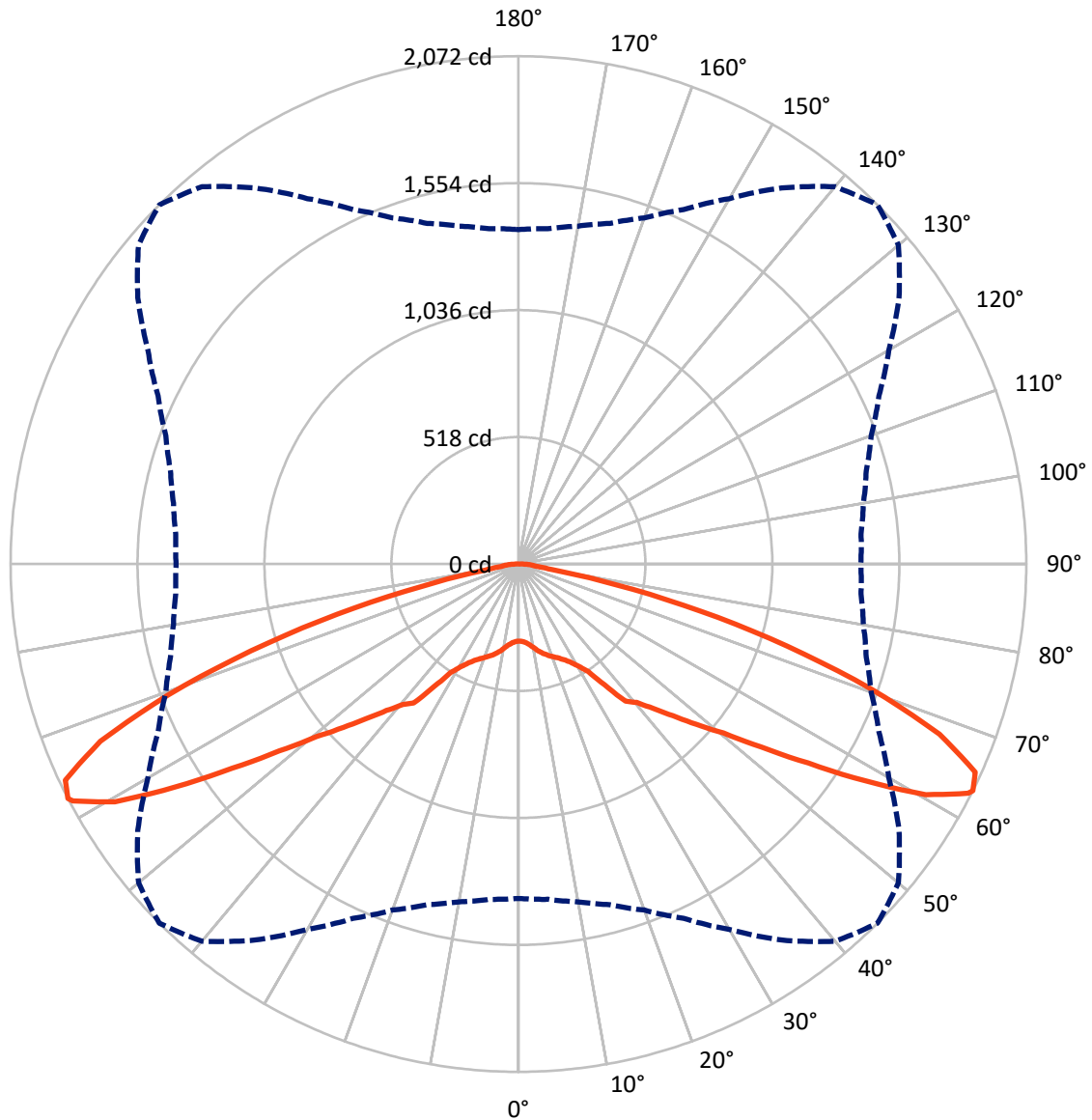
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2343.2 | 0.0 | 2343.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2343.2 | 0.0 | 2343.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4686.3 | 0.0 | 4686.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.7 | 0.7 |
| 10°-20° | 108.2 | 2.3 |
| 20°-30° | 206.6 | 4.4 |
| 30°-40° | 393.7 | 8.4 |
| 40°-50° | 677.9 | 14.5 |
| 50°-60° | 1211.4 | 25.8 |
| 60°-70° | 1475.5 | 31.5 |
| 70°-80° | 525.6 | 11.2 |
| 80°-90° | 55.7 | 1.2 |
| 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° | 4686.3 | 100.0 |
| 0°-180° | 4686.3 | 100.0 |



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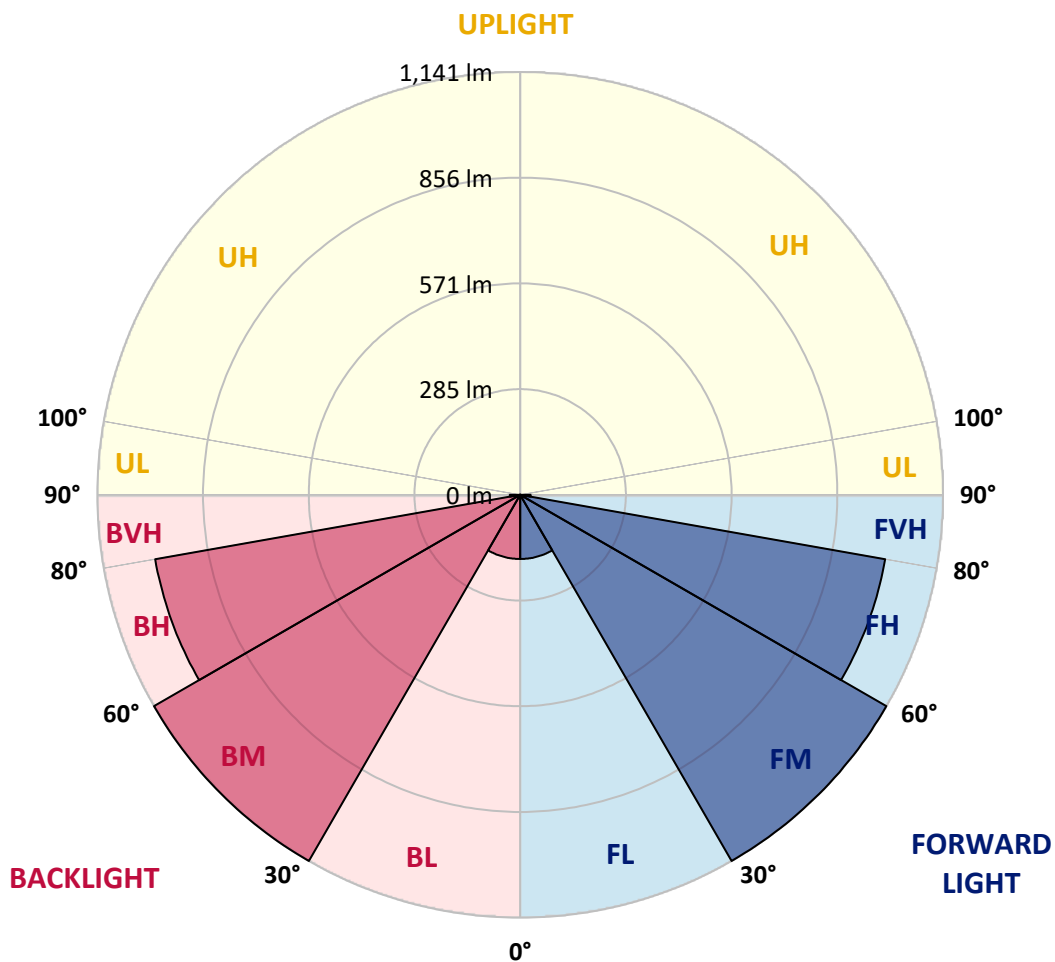
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 173.3 | 3.7 | | | |
| FM (30°-60°) | 1141.5 | 24.4 | | | |
| FH (60°-80°) | 1000.5 | 21.4 | | | G1/1800 |
| FVH (80°-90°) | 27.9 | 0.6 | | | G1/100 |
| BL (0°-30°) | 173.3 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1141.5 | 24.4 | B2/2500 | | |
| BH (60°-80°) | 1000.5 | 21.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 27.9 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 |
| 2.5° | 317.0 | 316.7 | 317.0 | 316.4 | 316.4 | 316.1 | 316.1 | 316.1 | 315.5 | 316.1 | 315.5 |
| 5° | 323.6 | 323.3 | 323.6 | 323.0 | 323.0 | 322.4 | 322.4 | 322.4 | 321.8 | 322.4 | 322.1 |
| 7.5° | 335.1 | 335.7 | 335.1 | 334.5 | 334.5 | 333.9 | 333.6 | 333.6 | 333.3 | 333.0 | 333.6 |
| 10° | 351.1 | 351.7 | 350.8 | 350.2 | 349.9 | 349.6 | 348.9 | 348.6 | 348.6 | 347.4 | 347.7 |
| 12.5° | 367.9 | 367.9 | 367.0 | 366.7 | 366.7 | 366.1 | 364.9 | 364.6 | 364.6 | 364.0 | 363.4 |
| 15° | 383.0 | 383.0 | 382.4 | 381.2 | 381.5 | 380.6 | 379.7 | 379.1 | 379.1 | 378.5 | 377.9 |
| 17.5° | 396.9 | 396.9 | 396.0 | 394.8 | 394.2 | 393.9 | 392.7 | 392.1 | 392.1 | 391.5 | 390.9 |
| 20° | 410.8 | 411.4 | 409.9 | 408.7 | 407.5 | 406.3 | 405.0 | 404.4 | 403.5 | 403.8 | 403.5 |
| 22.5° | 427.4 | 427.7 | 425.3 | 423.7 | 421.3 | 419.8 | 418.0 | 417.4 | 416.2 | 416.2 | 416.8 |
| 25° | 448.5 | 448.2 | 445.5 | 442.7 | 440.0 | 437.0 | 434.3 | 433.7 | 432.5 | 432.2 | 432.5 |
| 27.5° | 476.2 | 475.9 | 472.6 | 469.0 | 465.4 | 460.8 | 457.5 | 455.7 | 454.8 | 453.6 | 454.2 |
| 30° | 510.3 | 510.9 | 507.0 | 502.8 | 498.2 | 492.8 | 488.6 | 486.2 | 484.4 | 483.2 | 483.8 |
| 32.5° | 579.7 | 579.1 | 573.0 | 564.0 | 554.3 | 541.7 | 531.4 | 527.2 | 523.9 | 522.7 | 523.6 |
| 35° | 649.3 | 648.7 | 646.3 | 643.6 | 641.2 | 633.1 | 625.5 | 616.8 | 609.5 | 605.0 | 606.2 |
| 37.5° | 682.2 | 682.2 | 680.4 | 679.8 | 679.8 | 684.6 | 690.7 | 701.5 | 710.0 | 710.6 | 707.8 |
| 40° | 733.5 | 733.5 | 730.5 | 729.0 | 728.1 | 729.6 | 733.5 | 737.4 | 741.6 | 742.5 | 739.5 |
| 42.5° | 793.8 | 791.1 | 789.0 | 786.0 | 785.7 | 787.2 | 791.4 | 796.2 | 800.4 | 804.1 | 797.7 |
| 45° | 858.9 | 856.5 | 854.4 | 852.6 | 853.8 | 857.7 | 863.5 | 871.9 | 877.9 | 883.4 | 878.3 |
| 47.5° | 931.6 | 926.5 | 928.6 | 926.8 | 929.8 | 937.7 | 947.9 | 960.6 | 966.9 | 976.6 | 968.4 |
| 50° | 1022.1 | 1023.3 | 1022.1 | 1022.1 | 1025.7 | 1036.0 | 1051.1 | 1068.3 | 1079.1 | 1084.5 | 1079.7 |
| 52.5° | 1156.6 | 1153.0 | 1144.9 | 1147.3 | 1152.1 | 1168.4 | 1188.0 | 1212.1 | 1226.0 | 1239.0 | 1223.9 |
| 55° | 1303.8 | 1304.4 | 1303.2 | 1306.5 | 1315.9 | 1332.5 | 1357.2 | 1393.7 | 1411.2 | 1433.8 | 1415.7 |
| 57.5° | 1425.7 | 1429.9 | 1437.1 | 1447.1 | 1467.3 | 1495.0 | 1543.6 | 1599.4 | 1645.8 | 1670.2 | 1641.9 |
| 60° | 1465.2 | 1469.4 | 1486.9 | 1514.6 | 1552.6 | 1609.3 | 1688.0 | 1783.6 | 1867.2 | 1910.6 | 1873.5 |
| 62.5° | 1389.2 | 1397.0 | 1422.9 | 1461.2 | 1524.0 | 1612.6 | 1729.7 | 1871.1 | 1999.9 | 2059.3 | 2014.4 |
| 63° | 1364.4 | 1373.2 | 1399.7 | 1438.6 | 1502.6 | 1595.1 | 1721.5 | 1872.9 | 2009.2 | 2072.0 | 2023.4 |
| 65° | 1254.6 | 1260.4 | 1288.4 | 1332.8 | 1403.9 | 1500.4 | 1641.0 | 1820.1 | 1975.5 | 2048.1 | 1996.6 |
| 67.5° | 1081.8 | 1089.4 | 1115.0 | 1153.3 | 1222.4 | 1324.6 | 1462.7 | 1641.3 | 1794.2 | 1852.4 | 1808.4 |
| 70° | 867.7 | 876.1 | 897.3 | 932.8 | 987.1 | 1081.8 | 1200.1 | 1366.8 | 1481.7 | 1527.3 | 1480.2 |
| 72.5° | 609.8 | 613.4 | 628.8 | 666.2 | 706.9 | 782.3 | 876.1 | 1005.8 | 1116.2 | 1146.1 | 1100.8 |
| 75° | 258.2 | 258.5 | 278.7 | 302.5 | 353.5 | 428.6 | 510.3 | 621.9 | 721.1 | 767.6 | 710.3 |
| 77.5° | 82.6 | 83.5 | 89.3 | 98.0 | 114.9 | 148.4 | 208.7 | 269.9 | 361.0 | 405.0 | 351.4 |
| 80° | 69.1 | 70.3 | 72.7 | 74.5 | 75.7 | 77.5 | 84.4 | 94.1 | 118.5 | 137.8 | 111.3 |
| 82.5° | 59.4 | 61.5 | 67.0 | 69.1 | 70.3 | 70.9 | 71.8 | 71.5 | 70.0 | 69.4 | 69.7 |
| 85° | 45.2 | 50.4 | 56.4 | 61.2 | 61.8 | 62.1 | 63.9 | 64.5 | 59.7 | 54.9 | 59.7 |
| 87.5° | 19.6 | 25.3 | 38.9 | 43.1 | 42.2 | 39.2 | 41.9 | 44.3 | 40.4 | 29.6 | 39.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDRV-5MQ-F02-E-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 | 314.6 |
| 2.5° | 315.8 | 316.4 | 316.4 | 316.4 | 316.4 | 316.7 | 317.0 | 316.7 |
| 5° | 322.4 | 323.0 | 322.7 | 323.0 | 323.0 | 323.3 | 323.6 | 323.3 |
| 7.5° | 333.9 | 333.9 | 333.9 | 334.5 | 334.5 | 335.1 | 335.1 | 335.1 |
| 10° | 348.0 | 347.7 | 347.7 | 348.3 | 348.9 | 349.2 | 349.9 | 349.6 |
| 12.5° | 363.4 | 362.8 | 363.1 | 363.7 | 364.3 | 364.6 | 365.2 | 364.9 |
| 15° | 377.3 | 377.0 | 377.0 | 377.9 | 378.2 | 378.5 | 379.7 | 379.7 |
| 17.5° | 390.6 | 390.6 | 390.6 | 391.8 | 392.1 | 393.3 | 394.2 | 394.2 |
| 20° | 403.8 | 403.8 | 403.8 | 405.0 | 406.0 | 407.8 | 409.6 | 409.3 |
| 22.5° | 417.4 | 417.7 | 418.3 | 419.5 | 421.6 | 424.3 | 425.9 | 425.9 |
| 25° | 434.3 | 435.5 | 436.7 | 438.5 | 441.5 | 445.2 | 447.6 | 448.5 |
| 27.5° | 456.0 | 458.7 | 461.7 | 464.5 | 467.8 | 472.3 | 475.6 | 476.2 |
| 30° | 485.6 | 489.5 | 494.3 | 497.9 | 502.2 | 507.3 | 511.2 | 513.3 |
| 32.5° | 527.5 | 537.1 | 543.5 | 556.4 | 564.3 | 573.0 | 580.3 | 583.3 |
| 35° | 613.8 | 623.4 | 631.8 | 640.6 | 642.4 | 645.4 | 649.3 | 650.2 |
| 37.5° | 699.1 | 691.3 | 683.7 | 683.4 | 681.3 | 681.9 | 683.1 | 684.6 |
| 40° | 736.2 | 733.8 | 729.9 | 731.4 | 731.7 | 731.7 | 734.1 | 734.4 |
| 42.5° | 795.9 | 790.2 | 785.7 | 789.3 | 789.9 | 790.5 | 792.9 | 795.6 |
| 45° | 871.9 | 863.2 | 857.4 | 855.3 | 857.4 | 856.8 | 860.2 | 860.8 |
| 47.5° | 958.8 | 947.3 | 934.3 | 930.1 | 928.9 | 926.2 | 931.9 | 931.3 |
| 50° | 1065.2 | 1046.8 | 1031.2 | 1025.1 | 1022.1 | 1020.6 | 1022.1 | 1022.1 |
| 52.5° | 1200.1 | 1181.7 | 1160.2 | 1153.3 | 1150.9 | 1154.2 | 1149.4 | 1154.5 |
| 55° | 1385.5 | 1355.7 | 1326.4 | 1317.1 | 1315.6 | 1314.1 | 1314.7 | 1316.8 |
| 57.5° | 1594.2 | 1541.2 | 1502.0 | 1479.0 | 1464.3 | 1457.0 | 1449.2 | 1448.0 |
| 60° | 1795.7 | 1699.2 | 1624.7 | 1574.0 | 1538.1 | 1511.0 | 1497.1 | 1492.3 |
| 62.5° | 1892.8 | 1751.7 | 1635.9 | 1549.6 | 1496.2 | 1451.9 | 1427.5 | 1421.1 |
| 63° | 1895.5 | 1745.0 | 1622.3 | 1531.2 | 1469.1 | 1429.3 | 1403.3 | 1396.7 |
| 65° | 1845.2 | 1673.9 | 1530.0 | 1429.9 | 1364.1 | 1322.5 | 1290.5 | 1283.6 |
| 67.5° | 1661.8 | 1495.6 | 1348.4 | 1246.8 | 1175.6 | 1142.1 | 1106.9 | 1106.0 |
| 70° | 1363.8 | 1215.4 | 1091.5 | 998.0 | 938.6 | 905.4 | 869.5 | 870.4 |
| 72.5° | 997.1 | 865.3 | 779.9 | 706.9 | 644.2 | 612.8 | 579.1 | 582.4 |
| 75° | 600.2 | 482.6 | 405.6 | 342.3 | 277.8 | 239.2 | 213.2 | 198.5 |
| 77.5° | 256.7 | 175.5 | 126.1 | 100.1 | 84.4 | 78.1 | 75.1 | 74.2 |
| 80° | 89.3 | 79.0 | 74.5 | 73.3 | 72.4 | 71.2 | 69.1 | 67.0 |
| 82.5° | 72.4 | 72.4 | 70.0 | 69.7 | 67.0 | 64.8 | 59.4 | 56.7 |
| 85° | 64.2 | 63.0 | 60.9 | 60.0 | 59.4 | 54.9 | 48.0 | 44.3 |
| 87.5° | 42.5 | 39.5 | 37.7 | 38.6 | 37.4 | 33.5 | 20.5 | 16.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)