

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: P163534

Luminaire Tested: **LDRL-SL3-F03-E-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-F03-E-7060-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4273.8 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

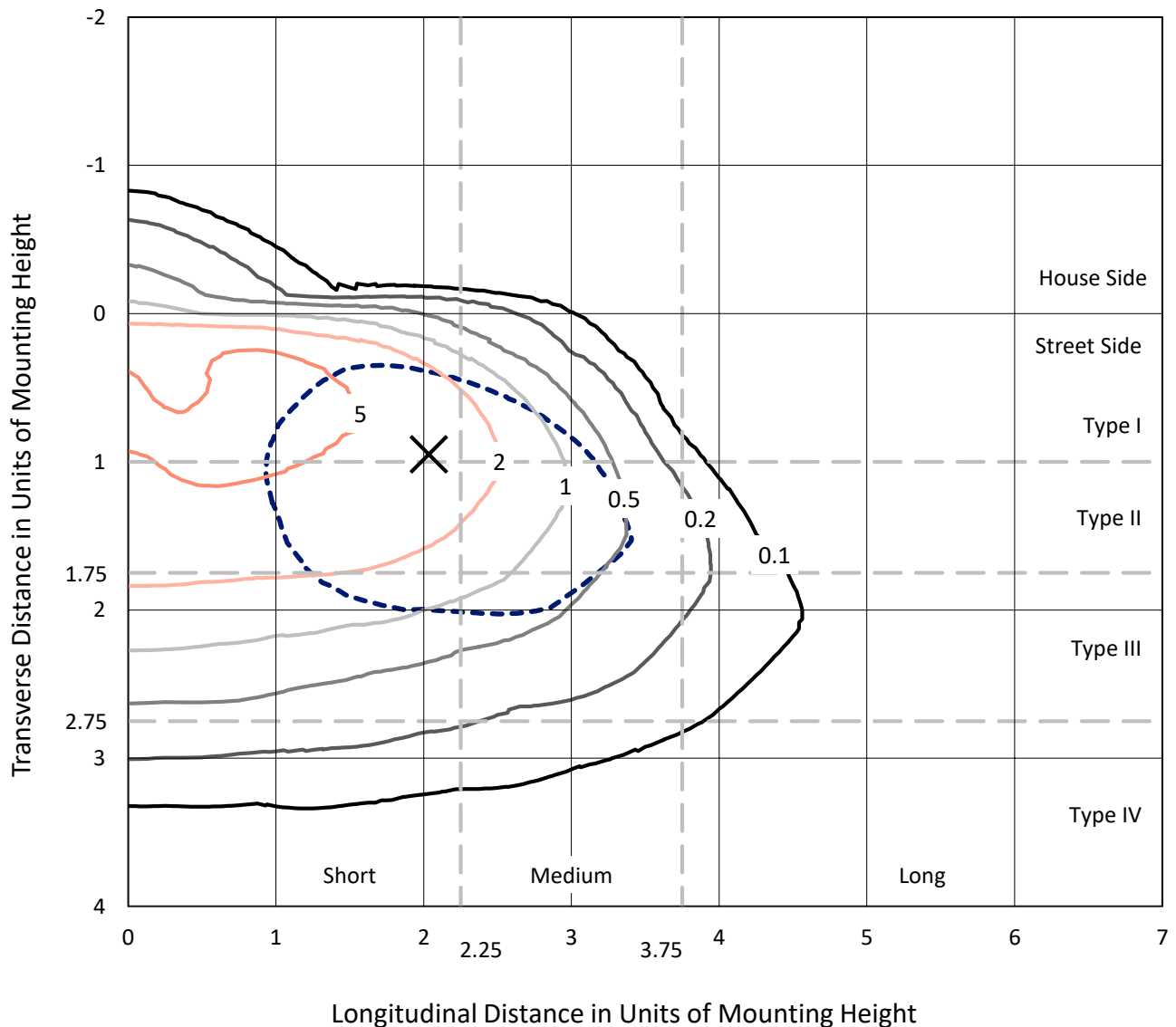


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

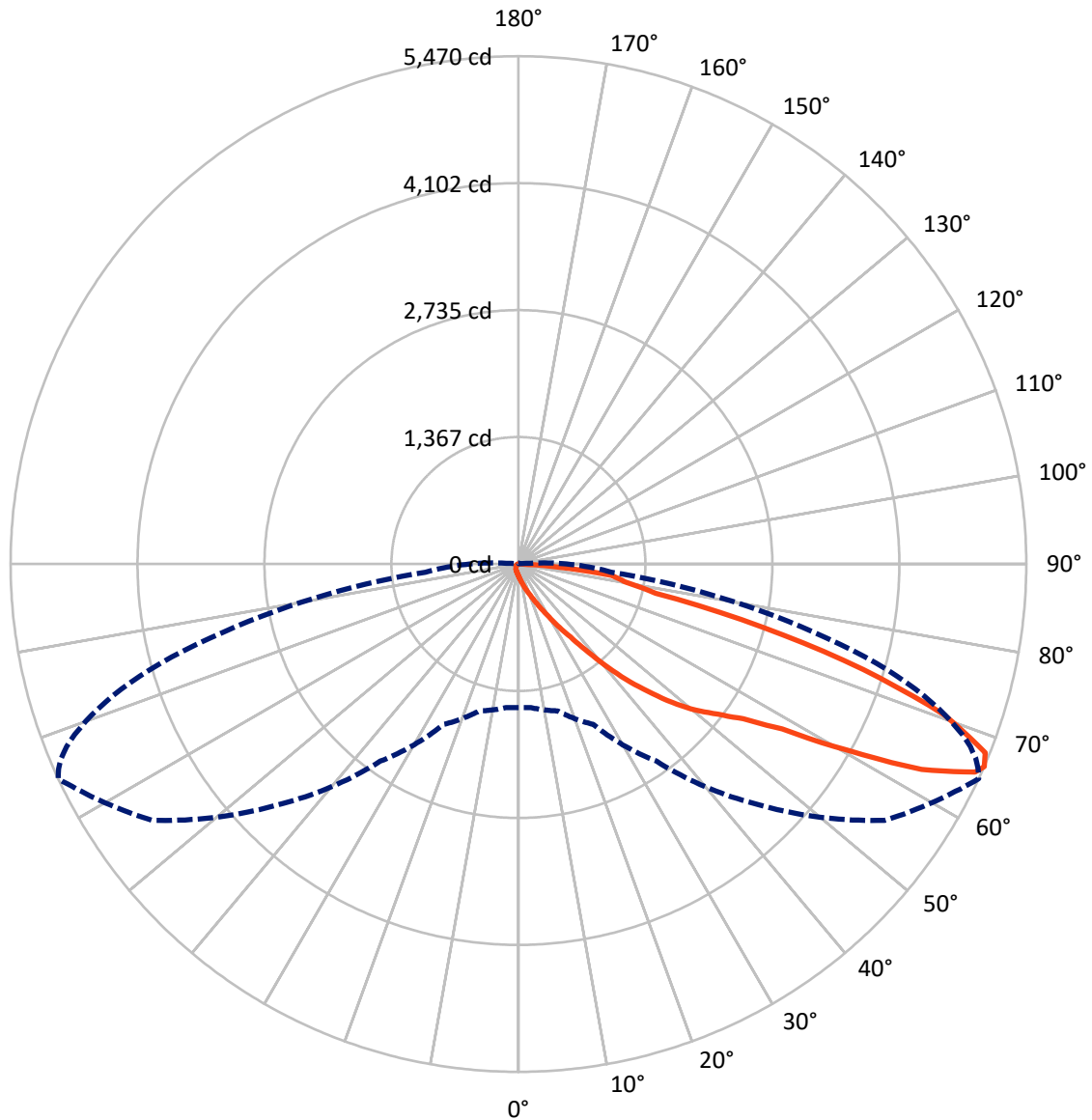


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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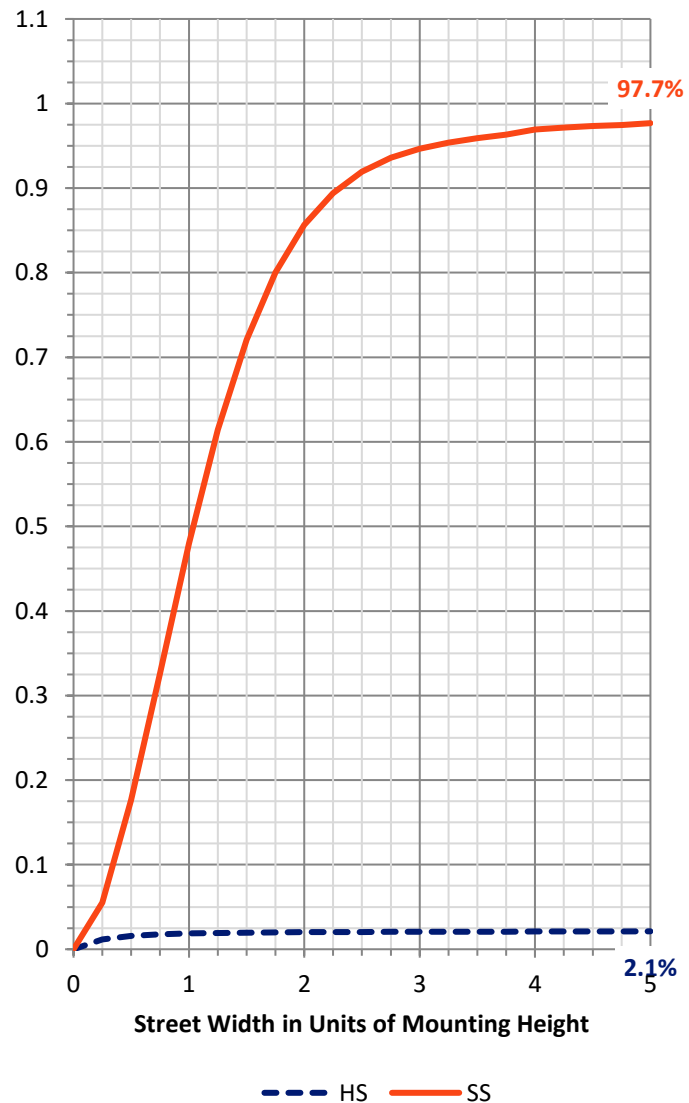
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 92.6 | 0.0 | 92.6 |
| | % Fixture | 2.2 | 0.0 | 2.2 |
| Street Side | Lumens | 4181.2 | 0.0 | 4181.2 |
| | % Fixture | 97.8 | 0.0 | 97.8 |
| Total | Lumens | 4273.8 | 0.0 | 4273.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 14.4 | 0.3 |
| 10°-20° | 61.2 | 1.4 |
| 20°-30° | 132.1 | 3.1 |
| 30°-40° | 282.0 | 6.6 |
| 40°-50° | 623.7 | 14.6 |
| 50°-60° | 1057.0 | 24.7 |
| 60°-70° | 1410.5 | 33.0 |
| 70°-80° | 621.3 | 14.5 |
| 80°-90° | 71.6 | 1.7 |
| 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° | 4273.8 | 100.0 |
| 0°-180° | 4273.8 | 100.0 |



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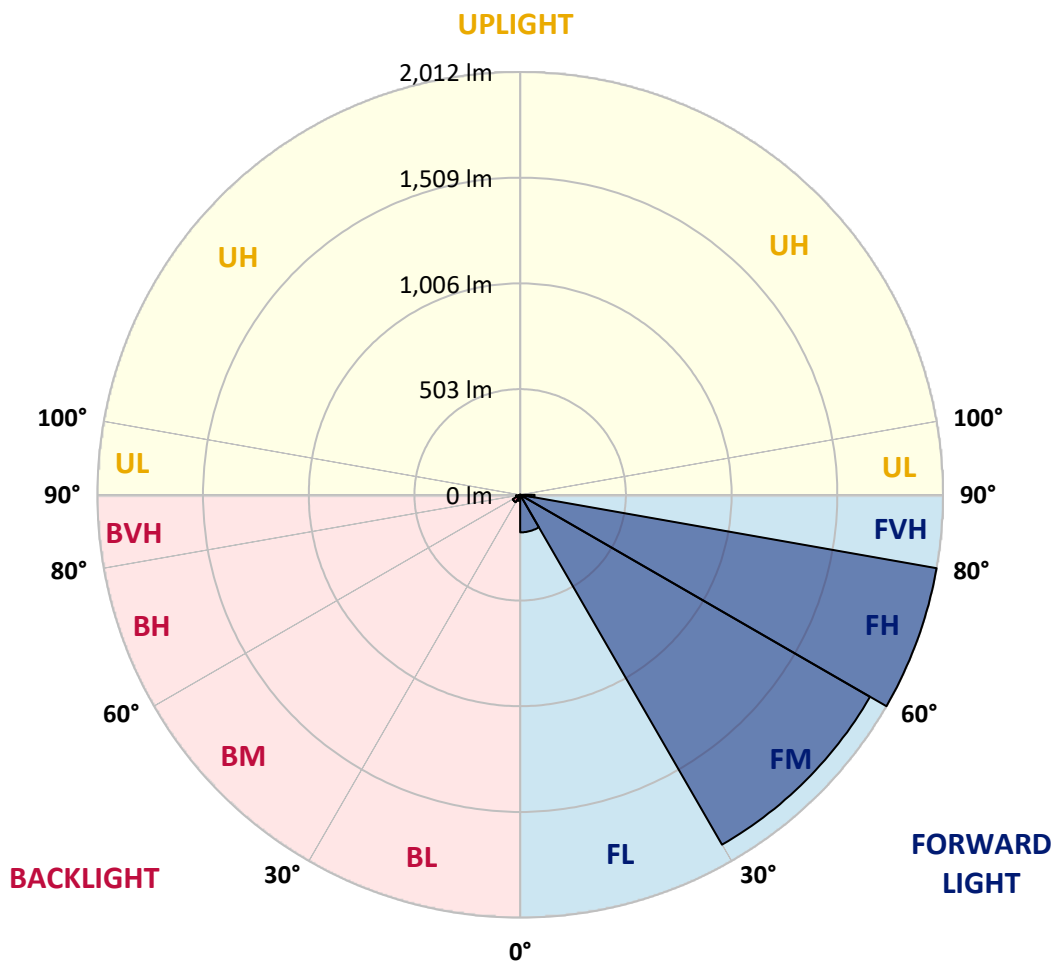
CATALOG NUMBER: LDRL-SL3-F03-E-7060-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 178.5 | 4.2 | | | |
| FM | (30°-60°) | 1922.1 | 45.0 | | | |
| FH | (60°-80°) | 2011.9 | 47.1 | | | G2/5000 |
| FVH | (80°-90°) | 68.7 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 29.2 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 40.7 | 1.0 | B0/220 | | |
| BH | (60°-80°) | 19.9 | 0.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.8 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 |
| 2.5° | 162.7 | 161.9 | 158.6 | 158.6 | 153.6 | 150.3 | 146.3 | 142.2 | 142.2 | 141.3 | 140.5 |
| 5° | 215.3 | 210.4 | 209.5 | 200.5 | 193.1 | 182.4 | 172.5 | 159.4 | 157.8 | 156.1 | 155.3 |
| 7.5° | 273.6 | 272.8 | 265.4 | 254.7 | 239.9 | 220.2 | 200.5 | 179.1 | 175.9 | 174.2 | 170.9 |
| 10° | 349.2 | 345.1 | 335.2 | 317.1 | 295.0 | 268.7 | 236.6 | 202.9 | 198.8 | 195.6 | 193.9 |
| 12.5° | 421.5 | 414.1 | 408.4 | 385.4 | 357.4 | 318.8 | 280.2 | 231.7 | 228.4 | 224.3 | 217.7 |
| 15° | 488.9 | 482.3 | 472.5 | 452.7 | 421.5 | 373.1 | 327.8 | 268.7 | 260.5 | 254.7 | 249.8 |
| 17.5° | 541.5 | 537.4 | 525.9 | 503.7 | 470.0 | 427.3 | 373.1 | 306.5 | 299.9 | 292.5 | 283.4 |
| 20° | 591.6 | 585.9 | 567.8 | 537.4 | 501.2 | 468.3 | 426.4 | 355.8 | 346.7 | 337.7 | 327.8 |
| 22.5° | 639.3 | 633.5 | 603.9 | 553.8 | 515.2 | 501.2 | 486.4 | 411.6 | 397.7 | 390.3 | 380.4 |
| 25° | 705.8 | 693.5 | 647.5 | 567.8 | 516.0 | 526.7 | 552.2 | 484.0 | 470.8 | 460.1 | 444.5 |
| 27.5° | 795.4 | 778.9 | 706.6 | 588.3 | 519.3 | 554.6 | 627.7 | 571.9 | 557.9 | 545.6 | 528.3 |
| 30° | 896.4 | 885.7 | 799.5 | 637.6 | 543.1 | 595.7 | 712.4 | 683.6 | 667.2 | 652.4 | 631.9 |
| 32.5° | 998.3 | 983.5 | 898.1 | 731.3 | 607.2 | 675.4 | 818.4 | 813.4 | 792.1 | 778.1 | 755.9 |
| 35° | 1087.8 | 1080.5 | 1017.2 | 884.9 | 753.5 | 815.1 | 959.7 | 965.5 | 946.6 | 931.8 | 907.1 |
| 37.5° | 1148.7 | 1148.7 | 1136.3 | 1050.1 | 986.0 | 1032.0 | 1167.6 | 1168.4 | 1149.5 | 1115.8 | 1103.5 |
| 40° | 1179.9 | 1188.9 | 1233.3 | 1249.7 | 1246.5 | 1305.6 | 1440.4 | 1425.6 | 1410.0 | 1392.7 | 1351.6 |
| 42.5° | 1244.0 | 1252.2 | 1346.7 | 1460.1 | 1534.0 | 1612.1 | 1704.9 | 1700.0 | 1681.1 | 1649.9 | 1612.1 |
| 45° | 1352.4 | 1363.1 | 1475.7 | 1655.6 | 1807.6 | 1918.6 | 1977.7 | 1954.7 | 1935.8 | 1906.2 | 1886.5 |
| 47.5° | 1490.5 | 1511.0 | 1638.4 | 1861.0 | 2044.3 | 2227.5 | 2289.1 | 2228.4 | 2211.9 | 2188.9 | 2156.8 |
| 50° | 1637.6 | 1657.3 | 1792.8 | 2047.6 | 2254.6 | 2473.2 | 2575.9 | 2473.2 | 2449.3 | 2442.0 | 2405.8 |
| 52.5° | 1764.9 | 1781.3 | 1912.0 | 2191.4 | 2415.7 | 2672.0 | 2821.6 | 2686.0 | 2668.7 | 2644.1 | 2617.8 |
| 55° | 1840.5 | 1853.7 | 1976.1 | 2260.4 | 2525.0 | 2851.2 | 3059.0 | 2939.9 | 2914.4 | 2904.6 | 2866.8 |
| 57.5° | 1866.0 | 1879.1 | 1989.2 | 2269.4 | 2584.1 | 3014.7 | 3347.4 | 3351.5 | 3321.1 | 3285.8 | 3274.3 |
| 60° | 1866.0 | 1880.8 | 1973.6 | 2247.2 | 2641.6 | 3188.8 | 3731.9 | 4074.6 | 4008.8 | 4002.3 | 3960.4 |
| 62.5° | 1788.7 | 1802.7 | 1896.4 | 2179.1 | 2718.9 | 3423.8 | 4267.7 | 4872.4 | 4853.5 | 4810.8 | 4741.8 |
| 65° | 1621.2 | 1629.3 | 1721.4 | 2004.8 | 2689.3 | 3640.0 | 4731.9 | 5403.2 | 5372.8 | 5289.0 | 5200.3 |
| 66° | 1545.5 | 1552.1 | 1638.4 | 1905.4 | 2592.3 | 3669.5 | 4814.1 | 5469.7 | 5419.6 | 5349.0 | 5248.8 |
| 67.5° | 1436.3 | 1447.7 | 1508.6 | 1720.6 | 2359.8 | 3566.8 | 4762.3 | 5422.9 | 5379.4 | 5293.9 | 5193.7 |
| 70° | 958.9 | 950.7 | 1165.1 | 1320.4 | 1797.8 | 2906.2 | 4272.6 | 4869.1 | 4870.0 | 4829.7 | 4789.5 |
| 72.5° | 455.2 | 460.1 | 522.6 | 812.6 | 1176.6 | 1941.5 | 3400.8 | 3886.5 | 3942.3 | 3870.0 | 3819.9 |
| 75° | 327.0 | 334.4 | 372.2 | 497.1 | 701.7 | 1165.1 | 2204.5 | 2718.0 | 2719.7 | 2591.5 | 2477.3 |
| 77.5° | 95.3 | 99.4 | 139.7 | 306.5 | 525.9 | 786.3 | 1266.2 | 1511.0 | 1475.7 | 1383.6 | 1297.4 |
| 80° | 39.4 | 39.4 | 41.1 | 97.8 | 211.2 | 534.1 | 885.7 | 1163.5 | 1159.4 | 1124.0 | 1073.1 |
| 82.5° | 14.8 | 15.6 | 19.7 | 40.3 | 50.1 | 131.5 | 590.8 | 1009.8 | 1007.3 | 957.2 | 921.1 |
| 85° | 1.6 | 1.6 | 4.9 | 17.2 | 18.9 | 24.6 | 118.3 | 445.3 | 442.9 | 445.3 | 390.3 |
| 87.5° | 0.0 | 0.0 | 0.8 | 1.6 | 2.4 | 3.3 | 4.9 | 17.2 | 18.9 | 18.1 | 16.4 |
| 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: LDRL-SL3-F03-E-7060-HSS

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 |
| 2.5° | 140.5 | 138.9 | 138.9 | 138.0 | 138.0 | 138.0 | 137.2 | 136.4 | 136.4 | 135.5 | 134.7 |
| 5° | 153.6 | 152.0 | 151.2 | 149.5 | 148.7 | 147.9 | 146.3 | 145.4 | 143.8 | 143.0 | 142.2 |
| 7.5° | 169.2 | 166.0 | 165.1 | 162.7 | 160.2 | 158.6 | 156.9 | 154.5 | 152.8 | 149.5 | 148.7 |
| 10° | 189.0 | 184.8 | 181.6 | 178.3 | 175.9 | 171.7 | 169.2 | 166.0 | 162.7 | 160.2 | 157.8 |
| 12.5° | 214.4 | 208.7 | 203.8 | 200.5 | 194.7 | 189.8 | 184.8 | 182.4 | 175.9 | 172.5 | 168.4 |
| 15° | 242.4 | 235.8 | 230.1 | 223.5 | 219.4 | 211.2 | 204.6 | 197.2 | 193.9 | 188.2 | 181.6 |
| 17.5° | 278.5 | 267.8 | 258.8 | 252.2 | 244.0 | 235.8 | 228.4 | 221.0 | 211.2 | 204.6 | 196.4 |
| 20° | 317.1 | 308.1 | 295.8 | 284.3 | 274.5 | 264.6 | 253.9 | 244.0 | 235.0 | 224.3 | 214.4 |
| 22.5° | 366.4 | 353.3 | 338.5 | 327.0 | 313.9 | 303.2 | 288.4 | 275.3 | 260.5 | 246.5 | 235.0 |
| 25° | 428.9 | 411.6 | 397.7 | 381.2 | 365.6 | 349.2 | 331.1 | 314.7 | 295.8 | 282.6 | 262.9 |
| 27.5° | 506.2 | 489.7 | 470.8 | 449.4 | 433.8 | 409.2 | 385.4 | 364.8 | 342.6 | 322.1 | 299.9 |
| 30° | 604.8 | 580.9 | 561.2 | 540.7 | 509.4 | 485.6 | 457.7 | 429.7 | 399.3 | 378.8 | 345.1 |
| 32.5° | 723.1 | 697.6 | 668.0 | 638.4 | 609.7 | 576.0 | 541.5 | 507.0 | 473.3 | 435.5 | 401.0 |
| 35° | 867.7 | 837.3 | 803.6 | 771.5 | 727.1 | 691.0 | 647.5 | 599.8 | 562.0 | 518.5 | 474.9 |
| 37.5° | 1059.1 | 1009.0 | 979.4 | 945.7 | 885.7 | 836.4 | 788.0 | 740.3 | 673.8 | 627.7 | 566.1 |
| 40° | 1299.0 | 1269.4 | 1221.0 | 1166.7 | 1112.5 | 1047.6 | 981.9 | 918.6 | 841.3 | 777.3 | 705.8 |
| 42.5° | 1580.8 | 1537.3 | 1488.0 | 1410.0 | 1354.9 | 1278.5 | 1203.7 | 1119.9 | 1025.4 | 943.3 | 859.4 |
| 45° | 1845.4 | 1793.6 | 1755.9 | 1677.8 | 1620.3 | 1529.9 | 1439.6 | 1350.8 | 1241.5 | 1135.5 | 1038.5 |
| 47.5° | 2131.4 | 2088.6 | 2026.2 | 1962.9 | 1904.6 | 1802.7 | 1704.9 | 1597.3 | 1482.2 | 1356.6 | 1230.8 |
| 50° | 2382.8 | 2349.1 | 2306.4 | 2230.0 | 2165.1 | 2079.6 | 1964.6 | 1847.1 | 1701.7 | 1576.8 | 1433.8 |
| 52.5° | 2596.4 | 2570.1 | 2510.2 | 2455.9 | 2397.6 | 2317.1 | 2214.4 | 2101.8 | 1944.9 | 1807.6 | 1644.9 |
| 55° | 2848.7 | 2829.8 | 2777.2 | 2743.5 | 2691.7 | 2614.5 | 2518.4 | 2414.0 | 2248.1 | 2098.5 | 1914.5 |
| 57.5° | 3262.0 | 3247.2 | 3201.2 | 3187.2 | 3136.3 | 3068.9 | 2950.6 | 2838.8 | 2644.9 | 2459.2 | 2248.9 |
| 60° | 3946.4 | 3916.8 | 3849.5 | 3814.9 | 3707.3 | 3616.9 | 3463.3 | 3309.6 | 3075.4 | 2838.8 | 2585.7 |
| 62.5° | 4679.3 | 4596.3 | 4468.1 | 4358.1 | 4205.2 | 4048.3 | 3842.9 | 3607.9 | 3333.4 | 3052.5 | 2761.6 |
| 65° | 5074.5 | 4933.2 | 4771.4 | 4596.3 | 4398.3 | 4167.4 | 3908.6 | 3626.8 | 3331.8 | 3035.2 | 2727.9 |
| 66° | 5119.7 | 4960.3 | 4788.6 | 4593.9 | 4373.7 | 4128.0 | 3865.1 | 3569.3 | 3262.8 | 2973.6 | 2666.3 |
| 67.5° | 5063.0 | 4896.2 | 4714.6 | 4498.6 | 4260.3 | 4005.6 | 3729.5 | 3422.2 | 3127.2 | 2833.9 | 2534.8 |
| 70° | 4666.2 | 4500.2 | 4338.3 | 4110.7 | 3856.9 | 3600.5 | 3339.2 | 2995.8 | 2716.4 | 2446.9 | 2180.7 |
| 72.5° | 3726.2 | 3613.6 | 3453.4 | 3258.7 | 3011.4 | 2710.6 | 2492.9 | 2185.6 | 1943.2 | 1681.9 | 1475.7 |
| 75° | 2328.6 | 2170.0 | 1972.0 | 1723.8 | 1534.9 | 1290.8 | 1163.5 | 930.1 | 792.1 | 671.3 | 554.6 |
| 77.5° | 1190.6 | 1071.4 | 932.6 | 792.9 | 659.0 | 525.9 | 406.7 | 287.6 | 193.9 | 134.7 | 100.2 |
| 80° | 983.5 | 878.3 | 763.3 | 636.0 | 517.6 | 401.8 | 289.2 | 197.2 | 125.7 | 82.2 | 64.1 |
| 82.5° | 812.6 | 723.9 | 621.2 | 502.9 | 400.1 | 315.5 | 219.4 | 143.0 | 88.7 | 57.5 | 45.2 |
| 85° | 345.9 | 313.9 | 242.4 | 192.3 | 144.6 | 106.8 | 74.8 | 50.1 | 35.3 | 28.8 | 26.3 |
| 87.5° | 14.8 | 16.4 | 15.6 | 12.3 | 9.0 | 9.0 | 8.2 | 6.6 | 6.6 | 6.6 | 6.6 |
| 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: LDRL-SL3-F03-E-7060-HSS

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 95° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 |
| 2.5° | 134.7 | 133.9 | 133.1 | 133.1 | 132.3 | 131.5 | 126.6 | 122.4 | 117.5 | 114.2 | 110.9 |
| 5° | 140.5 | 139.7 | 138.0 | 137.2 | 135.5 | 134.7 | 124.1 | 115.0 | 107.6 | 101.9 | 97.8 |
| 7.5° | 146.3 | 145.4 | 143.0 | 140.5 | 139.7 | 138.0 | 120.8 | 109.3 | 99.4 | 92.9 | 88.7 |
| 10° | 153.6 | 151.2 | 148.7 | 145.4 | 143.0 | 140.5 | 117.5 | 102.7 | 92.0 | 86.2 | 82.2 |
| 12.5° | 164.3 | 160.2 | 156.1 | 152.0 | 148.7 | 144.6 | 115.8 | 97.0 | 86.2 | 79.7 | 75.6 |
| 15° | 176.7 | 170.9 | 166.0 | 161.1 | 155.3 | 151.2 | 112.6 | 92.0 | 81.3 | 74.8 | 69.8 |
| 17.5° | 188.2 | 181.6 | 174.2 | 166.8 | 161.1 | 155.3 | 109.3 | 87.1 | 76.4 | 69.8 | 64.9 |
| 20° | 204.6 | 194.7 | 185.7 | 176.7 | 168.4 | 161.1 | 104.3 | 82.2 | 72.3 | 64.9 | 60.0 |
| 22.5° | 222.7 | 211.2 | 199.6 | 187.3 | 176.7 | 166.8 | 100.2 | 78.1 | 68.2 | 60.8 | 55.0 |
| 25° | 245.7 | 231.7 | 216.1 | 200.5 | 188.2 | 175.0 | 96.1 | 73.9 | 64.1 | 56.7 | 50.9 |
| 27.5° | 277.7 | 258.0 | 240.8 | 221.0 | 202.1 | 187.3 | 92.9 | 70.6 | 60.0 | 52.6 | 46.8 |
| 30° | 321.3 | 292.5 | 265.4 | 244.0 | 221.8 | 200.5 | 89.6 | 66.5 | 56.7 | 48.5 | 41.9 |
| 32.5° | 369.7 | 336.1 | 304.8 | 272.8 | 244.9 | 220.2 | 86.2 | 63.3 | 52.6 | 44.4 | 38.6 |
| 35° | 429.7 | 387.0 | 345.1 | 308.1 | 274.5 | 241.6 | 83.0 | 60.0 | 49.3 | 40.3 | 34.5 |
| 37.5° | 516.0 | 462.6 | 407.6 | 359.9 | 316.3 | 272.8 | 80.5 | 56.7 | 45.2 | 36.1 | 30.4 |
| 40° | 634.3 | 565.3 | 497.9 | 433.0 | 376.3 | 322.1 | 77.3 | 53.4 | 41.9 | 32.9 | 27.1 |
| 42.5° | 762.5 | 678.7 | 590.0 | 516.8 | 438.8 | 370.6 | 73.9 | 50.1 | 38.6 | 29.6 | 23.8 |
| 45° | 921.9 | 817.6 | 709.9 | 610.5 | 515.2 | 427.3 | 70.6 | 46.8 | 34.5 | 26.3 | 20.5 |
| 47.5° | 1096.1 | 963.0 | 841.3 | 716.5 | 603.1 | 497.9 | 66.5 | 44.4 | 31.2 | 23.0 | 18.1 |
| 50° | 1275.2 | 1134.7 | 981.1 | 838.9 | 704.2 | 568.6 | 62.5 | 40.3 | 28.0 | 20.5 | 14.8 |
| 52.5° | 1468.3 | 1302.3 | 1145.4 | 968.7 | 811.8 | 661.4 | 58.3 | 36.9 | 25.5 | 18.1 | 12.3 |
| 55° | 1714.0 | 1528.3 | 1344.2 | 1146.2 | 957.2 | 769.1 | 54.2 | 32.9 | 22.2 | 15.6 | 9.9 |
| 57.5° | 2022.9 | 1802.7 | 1576.8 | 1353.3 | 1124.0 | 910.4 | 50.9 | 28.8 | 18.9 | 13.2 | 8.2 |
| 60° | 2314.6 | 2057.4 | 1783.8 | 1526.6 | 1267.8 | 1018.8 | 46.0 | 25.5 | 16.4 | 10.7 | 8.2 |
| 62.5° | 2465.8 | 2172.4 | 1877.5 | 1594.0 | 1317.9 | 1057.5 | 41.1 | 21.3 | 14.0 | 9.0 | 7.4 |
| 65° | 2428.8 | 2129.8 | 1843.8 | 1557.9 | 1287.5 | 1032.8 | 36.1 | 18.9 | 12.3 | 8.2 | 7.4 |
| 66° | 2375.4 | 2079.6 | 1792.0 | 1520.1 | 1262.1 | 1006.5 | 33.7 | 18.1 | 11.5 | 8.2 | 6.6 |
| 67.5° | 2258.7 | 1972.8 | 1698.4 | 1445.3 | 1192.2 | 956.4 | 30.4 | 16.4 | 10.7 | 7.4 | 6.6 |
| 70° | 1929.2 | 1669.6 | 1450.2 | 1225.1 | 1018.8 | 806.0 | 24.6 | 14.0 | 9.0 | 6.6 | 6.6 |
| 72.5° | 1276.9 | 1100.2 | 953.9 | 820.8 | 686.1 | 532.4 | 20.5 | 11.5 | 7.4 | 6.6 | 5.7 |
| 75° | 481.5 | 435.5 | 373.9 | 336.1 | 293.3 | 257.2 | 16.4 | 7.4 | 5.7 | 5.7 | 5.7 |
| 77.5° | 85.4 | 78.9 | 69.8 | 64.1 | 59.2 | 54.2 | 13.2 | 4.9 | 4.9 | 5.7 | 5.7 |
| 80° | 57.5 | 53.4 | 48.5 | 44.4 | 41.1 | 36.9 | 9.0 | 4.1 | 4.9 | 4.9 | 5.7 |
| 82.5° | 41.1 | 38.6 | 36.1 | 32.9 | 30.4 | 27.1 | 5.7 | 4.1 | 4.9 | 4.9 | 4.9 |
| 85° | 24.6 | 23.0 | 21.3 | 19.7 | 17.2 | 16.4 | 4.1 | 4.1 | 4.1 | 4.9 | 4.9 |
| 87.5° | 6.6 | 5.7 | 6.6 | 6.6 | 4.9 | 5.7 | 3.3 | 3.3 | 3.3 | 4.1 | 4.1 |
| 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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| 0° | 129.0 | 129.0 | 129.0 | 129.0 | 129.0 |
| 2.5° | 109.3 | 109.3 | 107.6 | 110.1 | 110.1 |
| 5° | 94.5 | 94.5 | 93.7 | 94.5 | 94.5 |
| 7.5° | 86.2 | 85.4 | 85.4 | 85.4 | 86.2 |
| 10° | 78.9 | 78.1 | 78.1 | 78.1 | 78.1 |
| 12.5° | 72.3 | 71.5 | 70.6 | 71.5 | 71.5 |
| 15° | 66.5 | 64.9 | 64.9 | 64.9 | 64.9 |
| 17.5° | 61.6 | 60.0 | 59.2 | 59.2 | 59.2 |
| 20° | 56.7 | 54.2 | 54.2 | 54.2 | 54.2 |
| 22.5° | 51.7 | 49.3 | 49.3 | 49.3 | 49.3 |
| 25° | 46.8 | 44.4 | 44.4 | 44.4 | 44.4 |
| 27.5° | 42.7 | 40.3 | 40.3 | 40.3 | 40.3 |
| 30° | 37.8 | 36.1 | 36.1 | 36.9 | 36.1 |
| 32.5° | 34.5 | 32.0 | 32.0 | 32.9 | 32.9 |
| 35° | 30.4 | 28.8 | 28.8 | 28.8 | 28.8 |
| 37.5° | 26.3 | 24.6 | 24.6 | 24.6 | 24.6 |
| 40° | 23.0 | 21.3 | 20.5 | 21.3 | 21.3 |
| 42.5° | 19.7 | 18.1 | 17.2 | 17.2 | 17.2 |
| 45° | 17.2 | 14.8 | 14.0 | 14.8 | 14.8 |
| 47.5° | 14.0 | 12.3 | 12.3 | 13.2 | 13.2 |
| 50° | 10.7 | 10.7 | 11.5 | 13.2 | 13.2 |
| 52.5° | 9.9 | 9.9 | 11.5 | 13.2 | 13.2 |
| 55° | 9.0 | 9.9 | 11.5 | 12.3 | 13.2 |
| 57.5° | 8.2 | 9.9 | 11.5 | 12.3 | 12.3 |
| 60° | 8.2 | 9.0 | 10.7 | 12.3 | 12.3 |
| 62.5° | 7.4 | 8.2 | 9.9 | 11.5 | 11.5 |
| 65° | 7.4 | 8.2 | 9.9 | 11.5 | 11.5 |
| 66° | 7.4 | 8.2 | 9.9 | 11.5 | 11.5 |
| 67.5° | 7.4 | 8.2 | 9.9 | 11.5 | 11.5 |
| 70° | 7.4 | 8.2 | 9.9 | 10.7 | 10.7 |
| 72.5° | 6.6 | 7.4 | 9.0 | 10.7 | 10.7 |
| 75° | 6.6 | 7.4 | 9.0 | 10.7 | 10.7 |
| 77.5° | 6.6 | 7.4 | 9.0 | 10.7 | 10.7 |
| 80° | 6.6 | 7.4 | 9.0 | 9.9 | 10.7 |
| 82.5° | 5.7 | 7.4 | 8.2 | 9.9 | 9.9 |
| 85° | 5.7 | 6.6 | 8.2 | 9.0 | 9.9 |
| 87.5° | 4.9 | 5.7 | 6.6 | 8.2 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)