

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: P163860

Luminaire Tested: **LDRC-SL4-F02-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163860
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-SL4-F02-E-8030-HSS
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750.3 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

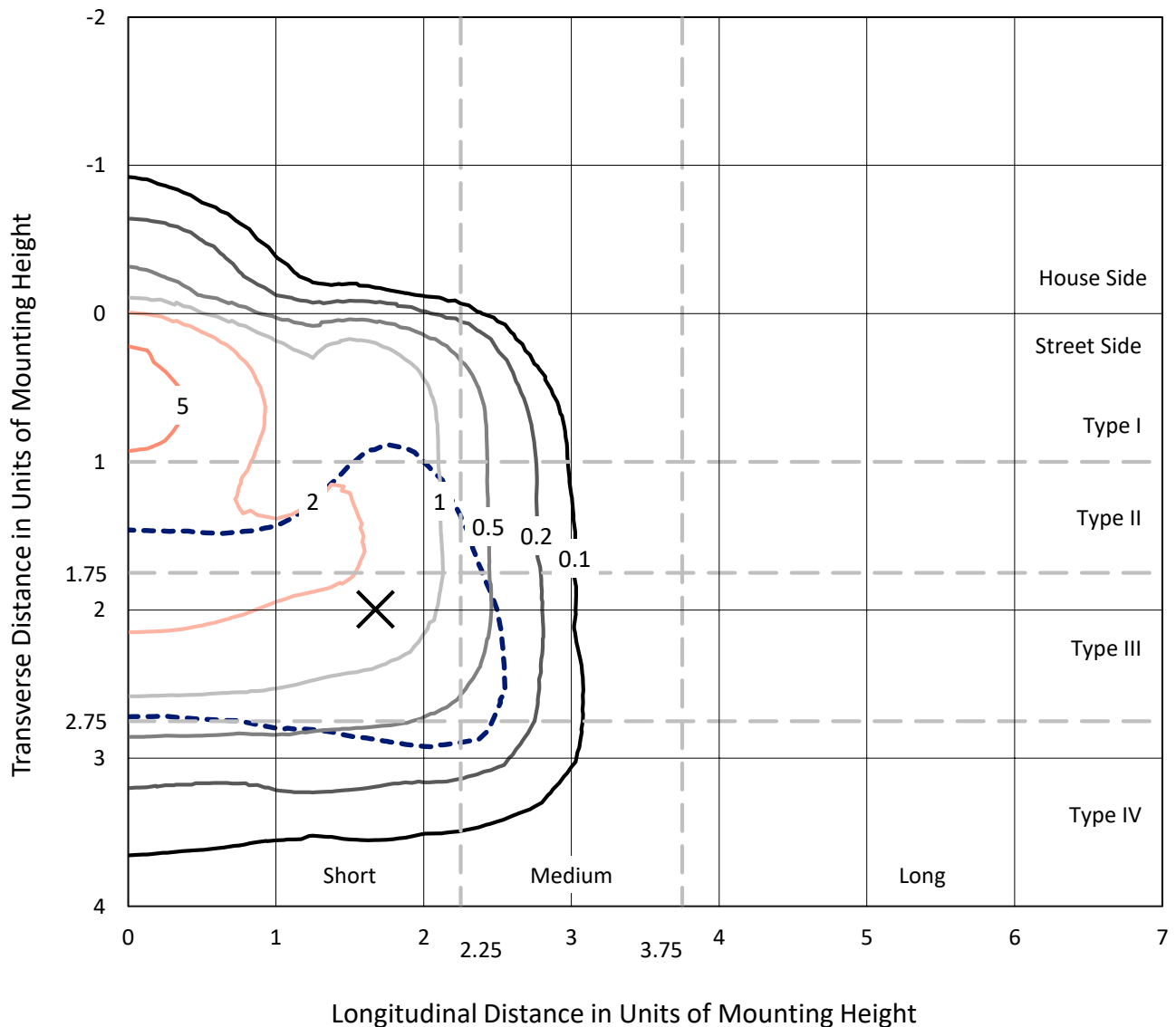
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

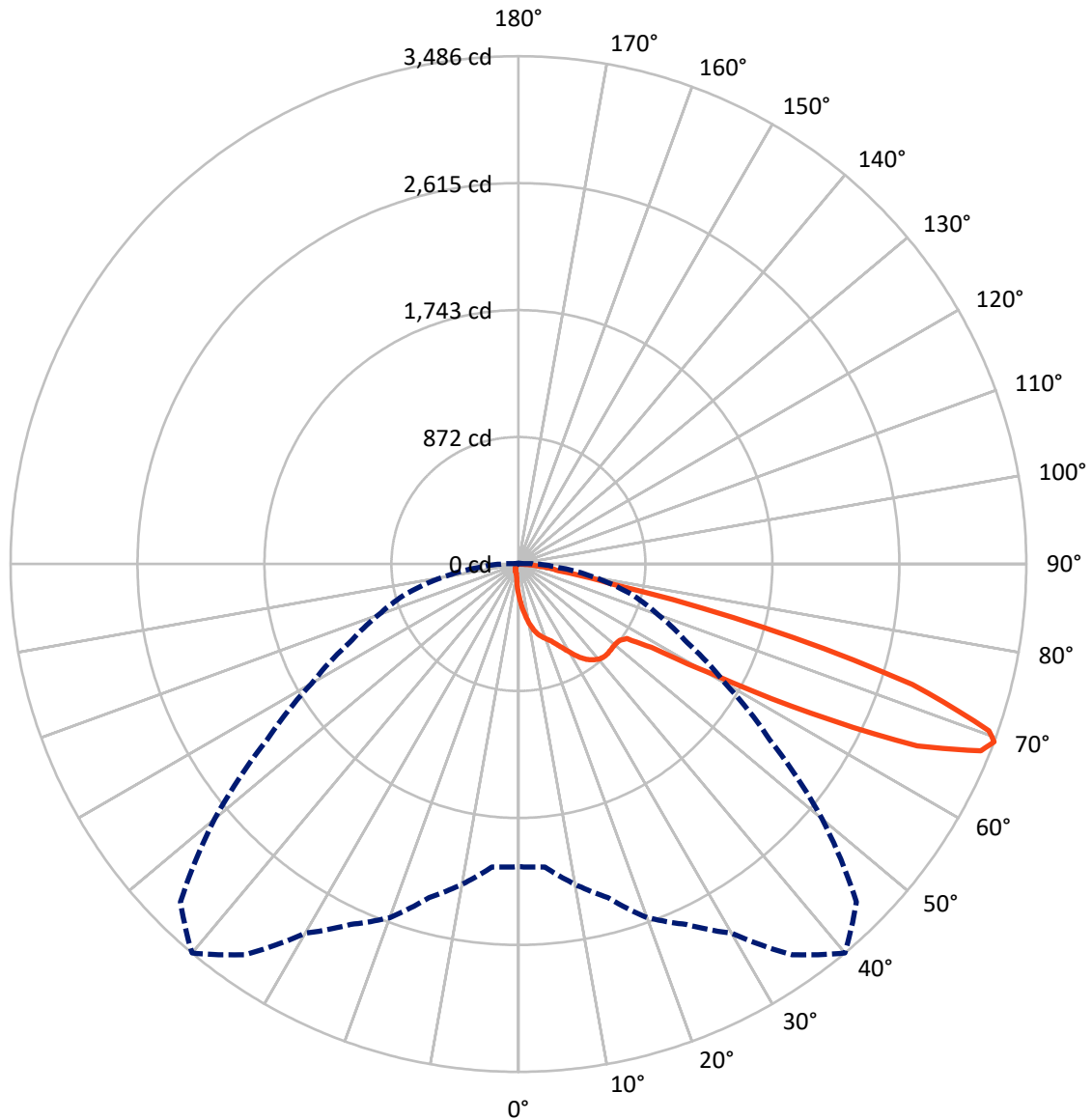


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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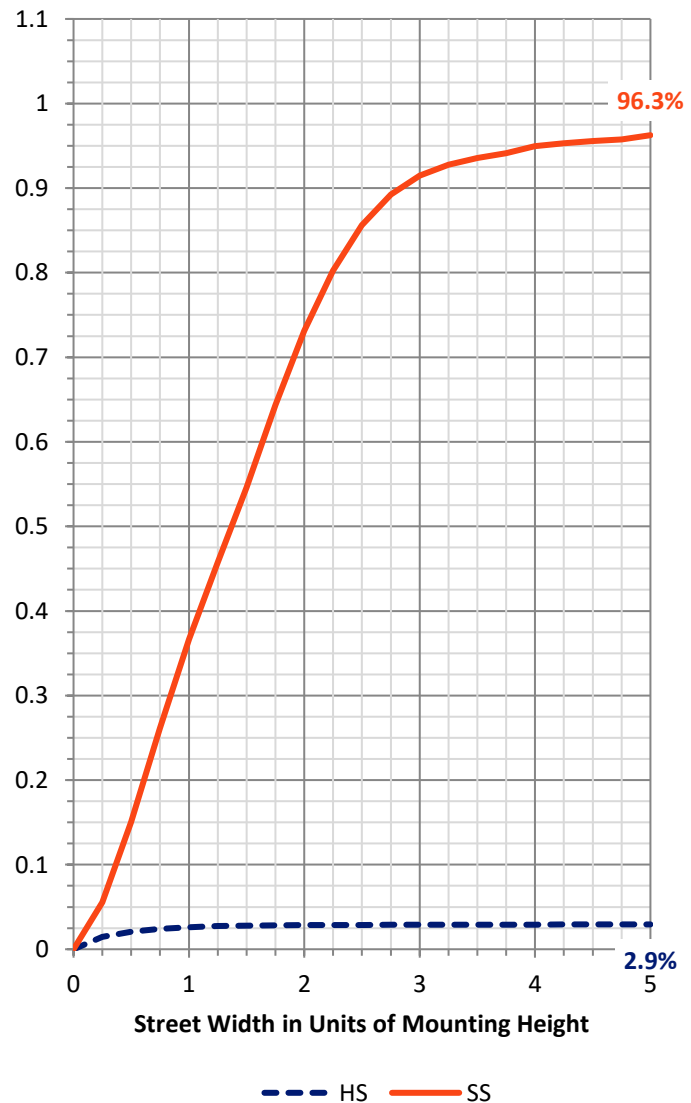
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 81.9 | 0.0 | 81.9 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 2668.4 | 0.0 | 2668.4 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 2750.3 | 0.0 | 2750.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.3 | 0.8 |
| 10°-20° | 73.6 | 2.7 |
| 20°-30° | 140.9 | 5.1 |
| 30°-40° | 234.3 | 8.5 |
| 40°-50° | 317.0 | 11.5 |
| 50°-60° | 495.8 | 18.0 |
| 60°-70° | 1019.3 | 37.1 |
| 70°-80° | 410.2 | 14.9 |
| 80°-90° | 37.9 | 1.4 |
| 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° | 2750.3 | 100.0 |
| 0°-180° | 2750.3 | 100.0 |



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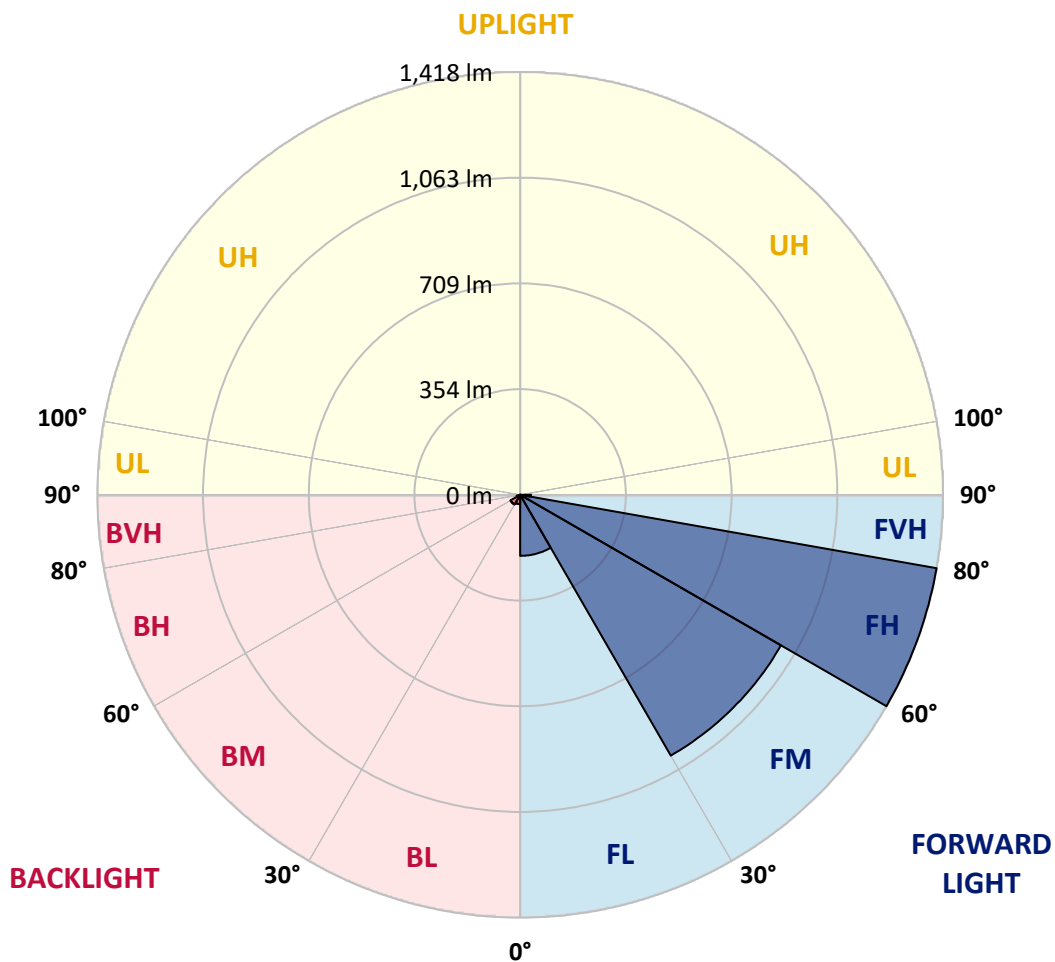
CATALOG NUMBER: LDRC-SL4-F02-E-8030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 204.7 | 7.4 | | | |
| FM | (30°-60°) | 1009.7 | 36.7 | | | |
| FH | (60°-80°) | 1417.5 | 51.5 | | | G1/1800 |
| FVH | (80°-90°) | 36.5 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 31.2 | 1.1 | B0/110 | | |
| BM | (30°-60°) | 37.4 | 1.4 | B0/220 | | |
| BH | (60°-80°) | 11.9 | 0.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.4 | 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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 |
| 2.5° | 277.1 | 273.9 | 270.3 | 270.3 | 265.8 | 265.8 | 263.1 | 255.9 | 255.0 | 251.0 | 246.9 |
| 5° | 353.7 | 351.0 | 346.5 | 342.4 | 338.8 | 332.5 | 328.0 | 319.4 | 310.0 | 301.0 | 292.9 |
| 7.5° | 428.5 | 427.1 | 419.0 | 417.7 | 411.8 | 401.4 | 392.4 | 379.8 | 363.6 | 351.0 | 336.1 |
| 10° | 497.9 | 494.7 | 492.9 | 485.2 | 476.7 | 465.4 | 451.5 | 436.1 | 417.2 | 397.4 | 376.2 |
| 12.5° | 552.8 | 551.0 | 542.9 | 539.7 | 530.7 | 519.5 | 501.9 | 482.1 | 463.2 | 437.5 | 412.7 |
| 15° | 593.8 | 590.7 | 585.3 | 580.3 | 569.5 | 559.6 | 543.4 | 521.7 | 498.8 | 470.8 | 441.1 |
| 17.5° | 628.1 | 622.2 | 620.8 | 613.2 | 601.9 | 590.2 | 572.2 | 552.4 | 525.3 | 497.4 | 465.0 |
| 20° | 674.0 | 665.9 | 663.2 | 651.9 | 638.9 | 622.7 | 601.9 | 577.1 | 548.8 | 518.1 | 484.8 |
| 22.5° | 728.1 | 722.2 | 716.4 | 706.5 | 689.8 | 666.8 | 636.6 | 609.6 | 573.6 | 539.7 | 503.7 |
| 25° | 804.7 | 799.7 | 790.3 | 776.7 | 756.0 | 728.5 | 692.1 | 652.4 | 610.0 | 566.8 | 524.4 |
| 27.5° | 879.0 | 874.5 | 867.8 | 857.4 | 834.0 | 803.8 | 758.7 | 708.3 | 654.7 | 602.4 | 555.5 |
| 30° | 948.9 | 944.8 | 938.1 | 927.7 | 907.0 | 877.2 | 826.3 | 772.2 | 705.6 | 644.7 | 588.4 |
| 32.5° | 1024.1 | 1022.8 | 1015.1 | 1000.2 | 982.2 | 942.1 | 886.7 | 828.6 | 761.0 | 690.7 | 624.9 |
| 35° | 1109.3 | 1098.9 | 1091.7 | 1076.8 | 1046.2 | 1003.4 | 938.5 | 875.0 | 803.8 | 731.7 | 658.2 |
| 37.5° | 1181.4 | 1171.4 | 1162.4 | 1143.5 | 1106.1 | 1051.6 | 978.1 | 908.3 | 834.9 | 761.4 | 686.6 |
| 40° | 1234.1 | 1229.1 | 1218.3 | 1193.5 | 1151.6 | 1086.7 | 1007.4 | 931.3 | 857.4 | 783.5 | 709.6 |
| 42.5° | 1273.3 | 1265.6 | 1253.4 | 1227.8 | 1178.2 | 1104.3 | 1019.2 | 940.8 | 867.8 | 797.0 | 724.5 |
| 45° | 1287.7 | 1281.4 | 1270.1 | 1242.2 | 1188.5 | 1109.3 | 1018.7 | 938.1 | 868.2 | 801.1 | 734.4 |
| 47.5° | 1279.1 | 1272.8 | 1262.9 | 1236.8 | 1184.1 | 1103.4 | 1010.6 | 930.4 | 863.7 | 802.4 | 743.4 |
| 50° | 1250.7 | 1247.1 | 1239.5 | 1217.4 | 1170.1 | 1092.1 | 1003.4 | 926.3 | 862.8 | 809.2 | 756.0 |
| 52.5° | 1248.0 | 1245.8 | 1236.3 | 1214.2 | 1166.0 | 1088.5 | 1002.5 | 928.6 | 870.5 | 817.7 | 765.0 |
| 55° | 1525.1 | 1493.1 | 1421.5 | 1360.7 | 1260.6 | 1141.7 | 1048.0 | 965.1 | 902.9 | 851.6 | 814.6 |
| 57.5° | 2167.6 | 2119.8 | 2025.7 | 1909.9 | 1680.1 | 1454.4 | 1273.7 | 1143.0 | 1078.6 | 1055.2 | 1069.2 |
| 60° | 2468.6 | 2460.0 | 2445.2 | 2390.2 | 2272.6 | 2078.4 | 1862.1 | 1628.3 | 1534.6 | 1526.5 | 1554.9 |
| 62.5° | 2611.4 | 2606.0 | 2610.5 | 2603.7 | 2567.2 | 2510.5 | 2448.3 | 2347.4 | 2254.6 | 2194.6 | 2067.6 |
| 65° | 2677.2 | 2680.8 | 2706.5 | 2726.7 | 2731.2 | 2746.1 | 2791.6 | 2917.3 | 3009.2 | 2854.7 | 2501.9 |
| 67.5° | 2510.0 | 2531.2 | 2590.2 | 2664.1 | 2750.6 | 2834.4 | 2969.6 | 3234.5 | 3423.3 | 3241.7 | 2740.7 |
| 69° | 2077.9 | 2088.3 | 2232.5 | 2371.7 | 2583.0 | 2730.8 | 2926.8 | 3274.2 | 3486.4 | 3281.4 | 2721.8 |
| 70° | 1636.0 | 1645.4 | 1799.9 | 1989.2 | 2346.5 | 2536.6 | 2793.0 | 3207.0 | 3427.4 | 3228.6 | 2624.5 |
| 72.5° | 738.0 | 724.5 | 779.0 | 880.4 | 1268.8 | 1570.6 | 2018.9 | 2598.3 | 2827.7 | 2586.6 | 1963.5 |
| 75° | 515.4 | 509.6 | 515.4 | 515.9 | 576.3 | 743.4 | 938.1 | 1408.4 | 1741.8 | 1503.0 | 938.1 |
| 77.5° | 399.2 | 395.1 | 391.1 | 386.6 | 393.8 | 441.1 | 460.0 | 499.7 | 648.8 | 613.7 | 357.7 |
| 80° | 315.8 | 312.2 | 322.1 | 319.0 | 319.0 | 324.4 | 320.8 | 305.9 | 278.0 | 257.7 | 230.7 |
| 82.5° | 146.9 | 147.8 | 147.8 | 160.4 | 193.3 | 225.7 | 236.1 | 221.2 | 196.5 | 167.2 | 134.7 |
| 85° | 14.0 | 15.8 | 26.6 | 41.0 | 81.5 | 91.9 | 92.4 | 76.6 | 76.6 | 60.4 | 48.7 |
| 87.5° | 0.0 | 0.4 | 0.4 | 0.4 | 4.0 | 11.3 | 9.4 | 2.7 | 1.3 | 1.3 | 2.3 |
| 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: LDRC-SL4-F02-E-8030-HSS

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 |
| 2.5° | 239.7 | 238.3 | 232.9 | 227.5 | 222.6 | 217.2 | 212.2 | 207.3 | 201.9 | 197.8 | 192.8 |
| 5° | 280.3 | 270.3 | 259.1 | 248.3 | 237.4 | 226.2 | 214.5 | 204.1 | 193.3 | 183.4 | 173.9 |
| 7.5° | 321.3 | 301.9 | 286.6 | 267.2 | 249.6 | 232.0 | 215.8 | 199.2 | 183.8 | 169.4 | 155.9 |
| 10° | 355.9 | 332.5 | 308.6 | 283.9 | 258.6 | 235.2 | 212.7 | 192.8 | 172.6 | 155.0 | 138.3 |
| 12.5° | 384.3 | 354.6 | 325.3 | 294.2 | 265.8 | 236.1 | 208.2 | 184.3 | 160.4 | 140.6 | 123.5 |
| 15° | 410.0 | 375.8 | 340.6 | 304.6 | 268.5 | 234.7 | 203.6 | 173.9 | 149.6 | 127.1 | 107.7 |
| 17.5° | 430.7 | 391.5 | 351.9 | 311.3 | 272.6 | 232.9 | 197.8 | 166.7 | 138.3 | 114.9 | 96.0 |
| 20° | 448.8 | 407.8 | 365.0 | 319.4 | 275.3 | 232.5 | 192.8 | 157.7 | 128.4 | 103.6 | 85.1 |
| 22.5° | 465.4 | 424.4 | 378.5 | 329.8 | 279.3 | 232.0 | 188.3 | 150.9 | 119.8 | 95.1 | 76.6 |
| 25° | 484.3 | 441.1 | 392.9 | 340.6 | 286.6 | 233.8 | 185.6 | 145.5 | 112.2 | 87.0 | 69.8 |
| 27.5° | 505.5 | 460.0 | 410.0 | 354.1 | 296.0 | 237.4 | 184.7 | 139.7 | 105.4 | 79.3 | 64.4 |
| 30° | 535.3 | 482.5 | 427.1 | 367.7 | 304.6 | 241.5 | 183.8 | 136.1 | 98.7 | 73.4 | 59.0 |
| 32.5° | 561.4 | 504.6 | 446.1 | 381.6 | 314.0 | 245.6 | 183.4 | 131.1 | 92.4 | 67.6 | 55.0 |
| 35° | 588.9 | 524.9 | 462.3 | 395.1 | 322.1 | 250.0 | 182.9 | 127.5 | 86.5 | 61.7 | 50.9 |
| 37.5° | 612.7 | 542.0 | 474.9 | 406.8 | 331.1 | 254.1 | 183.4 | 124.4 | 81.1 | 56.8 | 47.3 |
| 40° | 633.0 | 559.6 | 488.9 | 417.7 | 340.6 | 260.4 | 183.8 | 121.2 | 75.7 | 52.3 | 44.1 |
| 42.5° | 651.1 | 576.3 | 503.7 | 429.8 | 351.4 | 267.6 | 186.5 | 118.5 | 71.2 | 48.2 | 41.0 |
| 45° | 665.0 | 591.6 | 519.9 | 446.9 | 369.0 | 279.3 | 191.5 | 116.7 | 66.7 | 44.6 | 38.3 |
| 47.5° | 679.4 | 614.1 | 547.4 | 474.0 | 394.7 | 297.8 | 200.0 | 116.2 | 63.1 | 41.9 | 36.0 |
| 50° | 699.2 | 636.6 | 571.7 | 501.5 | 418.1 | 316.7 | 210.4 | 116.7 | 58.6 | 39.2 | 33.8 |
| 52.5° | 713.7 | 659.6 | 603.3 | 549.2 | 474.0 | 374.4 | 250.5 | 124.8 | 56.3 | 37.0 | 31.1 |
| 55° | 798.8 | 789.4 | 790.7 | 799.7 | 741.6 | 637.1 | 419.0 | 180.2 | 66.2 | 41.9 | 30.6 |
| 57.5° | 1126.4 | 1159.7 | 1179.1 | 1178.7 | 1082.7 | 898.0 | 562.7 | 231.6 | 73.9 | 48.7 | 36.5 |
| 60° | 1557.1 | 1531.9 | 1496.3 | 1408.4 | 1280.9 | 1025.0 | 629.4 | 249.2 | 64.0 | 38.7 | 33.3 |
| 62.5° | 1937.8 | 1790.1 | 1658.9 | 1516.5 | 1349.4 | 1069.2 | 642.9 | 247.8 | 55.9 | 29.3 | 23.4 |
| 65° | 2175.3 | 1909.4 | 1697.7 | 1519.2 | 1322.4 | 1032.2 | 608.3 | 227.5 | 47.3 | 23.9 | 19.4 |
| 67.5° | 2232.0 | 1845.0 | 1545.4 | 1317.9 | 1104.7 | 803.3 | 446.5 | 171.2 | 37.0 | 19.8 | 17.1 |
| 69° | 2108.1 | 1640.0 | 1280.5 | 1022.3 | 803.8 | 533.0 | 276.2 | 108.1 | 28.4 | 18.0 | 15.8 |
| 70° | 1939.2 | 1426.4 | 1043.0 | 820.4 | 595.2 | 374.4 | 193.3 | 76.1 | 23.0 | 16.7 | 14.4 |
| 72.5° | 1247.6 | 749.3 | 512.7 | 356.8 | 245.6 | 149.1 | 75.7 | 34.3 | 17.6 | 14.0 | 11.7 |
| 75° | 483.9 | 277.1 | 200.9 | 152.7 | 119.4 | 82.9 | 46.0 | 22.1 | 14.9 | 11.7 | 9.0 |
| 77.5° | 238.3 | 182.5 | 149.1 | 102.3 | 59.5 | 37.0 | 24.8 | 17.1 | 12.2 | 8.6 | 5.9 |
| 80° | 188.3 | 125.2 | 74.8 | 46.4 | 35.1 | 26.6 | 18.9 | 14.0 | 9.0 | 5.4 | 4.0 |
| 82.5° | 96.4 | 52.7 | 38.7 | 31.5 | 26.1 | 20.7 | 15.3 | 9.9 | 5.9 | 3.6 | 3.1 |
| 85° | 30.2 | 22.1 | 19.8 | 19.4 | 18.0 | 14.9 | 10.8 | 6.3 | 3.6 | 2.3 | 2.3 |
| 87.5° | 2.3 | 3.1 | 4.0 | 3.1 | 3.6 | 3.1 | 4.0 | 2.7 | 1.8 | 1.8 | 1.3 |
| 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: LDRC-SL4-F02-E-8030-HSS

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 | 207.7 |
| 2.5° | 189.2 | 183.8 | 178.9 | 175.7 | 169.9 | 167.6 | 165.3 | 164.5 | 160.4 | 161.3 | 157.7 |
| 5° | 165.3 | 155.9 | 148.7 | 141.5 | 134.7 | 129.8 | 125.7 | 120.8 | 116.7 | 114.9 | 111.3 |
| 7.5° | 143.7 | 131.6 | 122.1 | 114.4 | 106.3 | 100.0 | 94.6 | 91.0 | 87.4 | 83.8 | 82.0 |
| 10° | 124.8 | 111.7 | 100.9 | 93.3 | 85.6 | 80.2 | 76.1 | 73.4 | 71.2 | 69.8 | 69.4 |
| 12.5° | 107.2 | 94.6 | 84.7 | 78.0 | 72.1 | 69.4 | 67.6 | 66.2 | 65.8 | 65.3 | 65.3 |
| 15° | 93.7 | 81.1 | 73.4 | 68.5 | 65.8 | 64.4 | 64.0 | 63.1 | 62.2 | 61.7 | 61.7 |
| 17.5° | 81.1 | 71.6 | 66.2 | 63.5 | 62.2 | 61.3 | 60.4 | 59.5 | 58.6 | 58.1 | 58.1 |
| 20° | 72.5 | 64.9 | 62.2 | 60.4 | 59.0 | 58.1 | 56.8 | 55.9 | 55.4 | 55.0 | 54.5 |
| 22.5° | 65.8 | 60.8 | 59.0 | 57.7 | 55.9 | 54.5 | 53.6 | 52.7 | 51.8 | 51.4 | 50.9 |
| 25° | 60.8 | 57.7 | 56.3 | 54.5 | 52.7 | 51.4 | 50.0 | 48.7 | 47.8 | 47.3 | 46.4 |
| 27.5° | 57.2 | 55.0 | 53.2 | 50.9 | 49.1 | 47.8 | 46.4 | 45.1 | 44.1 | 43.3 | 42.8 |
| 30° | 54.1 | 51.8 | 49.6 | 47.8 | 45.5 | 44.1 | 42.4 | 41.0 | 40.6 | 39.7 | 38.7 |
| 32.5° | 50.9 | 48.7 | 46.4 | 44.1 | 41.9 | 40.1 | 39.2 | 37.4 | 36.5 | 36.0 | 35.1 |
| 35° | 47.3 | 45.1 | 42.4 | 40.6 | 38.3 | 36.5 | 35.1 | 33.8 | 32.9 | 32.0 | 31.5 |
| 37.5° | 44.1 | 41.4 | 38.7 | 36.5 | 34.7 | 32.9 | 31.5 | 30.2 | 29.3 | 28.4 | 27.9 |
| 40° | 40.6 | 37.8 | 35.1 | 32.9 | 31.1 | 29.7 | 28.4 | 27.0 | 26.1 | 25.7 | 25.7 |
| 42.5° | 37.4 | 34.3 | 31.5 | 29.7 | 28.4 | 26.6 | 25.2 | 23.9 | 23.4 | 23.0 | 23.4 |
| 45° | 34.3 | 31.1 | 28.8 | 27.0 | 25.7 | 23.9 | 22.5 | 21.6 | 21.2 | 21.6 | 22.1 |
| 47.5° | 31.5 | 28.4 | 26.1 | 24.8 | 23.4 | 22.1 | 20.7 | 19.8 | 19.8 | 20.7 | 21.6 |
| 50° | 28.8 | 25.7 | 23.9 | 23.0 | 21.6 | 20.3 | 18.5 | 18.0 | 18.5 | 19.4 | 20.3 |
| 52.5° | 26.1 | 22.5 | 21.2 | 20.7 | 19.4 | 18.0 | 16.7 | 16.2 | 16.7 | 17.6 | 17.1 |
| 55° | 23.4 | 19.8 | 19.4 | 18.9 | 17.6 | 15.8 | 14.4 | 14.4 | 14.4 | 14.0 | 13.1 |
| 57.5° | 22.5 | 17.6 | 17.1 | 16.7 | 15.3 | 13.5 | 12.6 | 11.7 | 11.3 | 9.9 | 9.4 |
| 60° | 23.4 | 15.8 | 15.8 | 14.9 | 13.5 | 11.7 | 10.4 | 9.0 | 8.1 | 7.2 | 7.2 |
| 62.5° | 18.9 | 14.4 | 14.0 | 13.1 | 11.3 | 9.4 | 8.1 | 6.7 | 6.3 | 5.9 | 5.9 |
| 65° | 15.3 | 13.1 | 12.2 | 10.8 | 9.4 | 7.7 | 6.3 | 5.4 | 5.0 | 5.0 | 5.4 |
| 67.5° | 14.0 | 11.7 | 10.4 | 9.0 | 7.7 | 5.9 | 5.0 | 4.5 | 4.5 | 5.0 | 5.0 |
| 69° | 13.1 | 10.8 | 9.4 | 8.1 | 6.7 | 5.4 | 4.5 | 4.5 | 4.5 | 4.5 | 5.0 |
| 70° | 12.2 | 10.4 | 9.0 | 7.7 | 5.9 | 4.5 | 4.0 | 4.0 | 4.5 | 4.5 | 5.0 |
| 72.5° | 9.4 | 8.1 | 7.7 | 6.3 | 4.5 | 4.0 | 3.6 | 4.0 | 4.0 | 4.5 | 4.5 |
| 75° | 7.2 | 5.9 | 5.9 | 5.0 | 3.6 | 3.1 | 3.1 | 3.6 | 3.6 | 4.0 | 4.0 |
| 77.5° | 5.0 | 4.0 | 4.0 | 3.6 | 3.1 | 2.7 | 2.7 | 3.1 | 3.6 | 3.6 | 4.0 |
| 80° | 3.6 | 3.1 | 2.7 | 3.1 | 2.7 | 2.3 | 2.7 | 3.1 | 3.1 | 3.6 | 3.6 |
| 82.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.3 | 2.3 | 2.7 | 2.7 | 3.1 | 3.6 | 3.6 |
| 85° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.7 | 2.7 | 3.1 | 3.1 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.8 | 1.8 | 2.3 | 2.3 | 2.3 | 2.3 | 2.7 | 2.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 207.7 | 207.7 | 207.7 | 207.7 |
| 2.5° | 156.8 | 156.3 | 154.5 | 155.0 |
| 5° | 109.9 | 107.2 | 109.0 | 108.6 |
| 7.5° | 80.7 | 80.2 | 79.7 | 80.7 |
| 10° | 68.9 | 68.9 | 68.5 | 68.9 |
| 12.5° | 64.9 | 64.9 | 64.9 | 64.9 |
| 15° | 61.7 | 61.7 | 61.3 | 61.3 |
| 17.5° | 58.1 | 58.1 | 58.1 | 57.7 |
| 20° | 54.5 | 54.1 | 54.1 | 54.1 |
| 22.5° | 50.5 | 50.0 | 50.0 | 50.0 |
| 25° | 46.4 | 46.0 | 46.0 | 46.0 |
| 27.5° | 42.4 | 41.9 | 41.4 | 41.4 |
| 30° | 38.3 | 37.8 | 37.4 | 37.4 |
| 32.5° | 34.3 | 33.8 | 33.3 | 33.3 |
| 35° | 30.6 | 30.6 | 30.2 | 29.7 |
| 37.5° | 27.5 | 27.5 | 27.5 | 27.5 |
| 40° | 25.2 | 25.7 | 25.7 | 25.7 |
| 42.5° | 23.9 | 24.3 | 24.8 | 25.2 |
| 45° | 23.0 | 23.9 | 24.3 | 24.3 |
| 47.5° | 22.5 | 23.0 | 23.4 | 23.4 |
| 50° | 20.7 | 20.3 | 20.3 | 20.3 |
| 52.5° | 16.7 | 15.8 | 15.3 | 14.9 |
| 55° | 12.2 | 11.7 | 10.8 | 10.8 |
| 57.5° | 8.6 | 8.6 | 8.1 | 8.1 |
| 60° | 6.7 | 6.7 | 6.3 | 6.7 |
| 62.5° | 5.9 | 5.9 | 5.9 | 5.9 |
| 65° | 5.4 | 5.4 | 5.4 | 5.4 |
| 67.5° | 5.4 | 5.4 | 5.4 | 5.4 |
| 69° | 5.0 | 5.0 | 5.0 | 5.0 |
| 70° | 5.0 | 5.0 | 5.0 | 5.0 |
| 72.5° | 4.5 | 4.5 | 4.5 | 4.5 |
| 75° | 4.0 | 4.5 | 4.5 | 4.5 |
| 77.5° | 4.0 | 4.0 | 4.0 | 4.0 |
| 80° | 3.6 | 3.6 | 4.0 | 4.0 |
| 82.5° | 3.6 | 3.6 | 3.6 | 3.6 |
| 85° | 3.1 | 3.1 | 3.6 | 3.6 |
| 87.5° | 2.7 | 2.7 | 3.1 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)