

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: P163297

Luminaire Tested: **LDRC-SL2-E02-E-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163297
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-SL2-E02-E-HSS
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.1 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

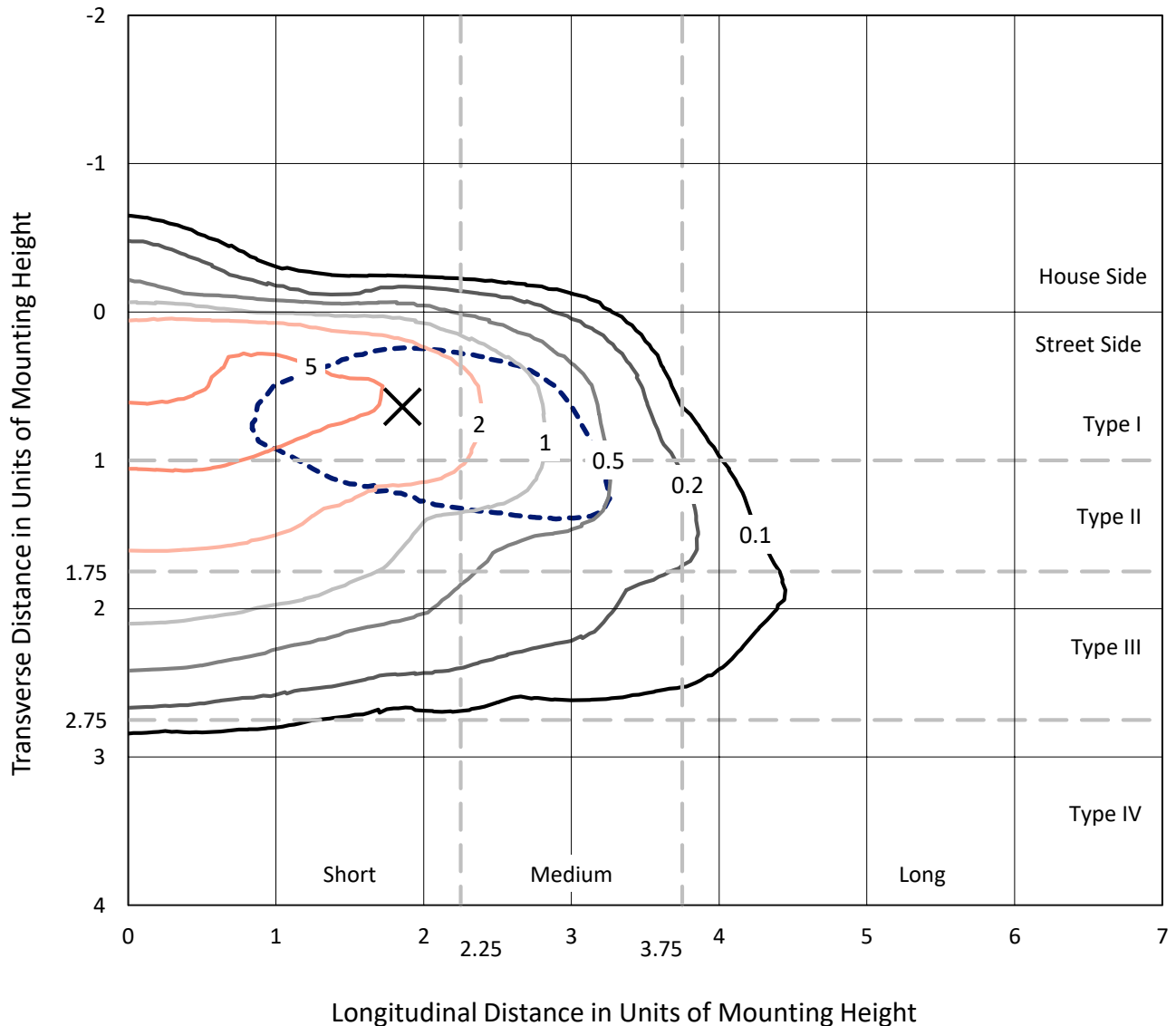
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P163297
 CATALOG NUMBER: LDRC-SL2-E02-E-HSS

Iso-Footcandle Lines of Horizontal Illumination

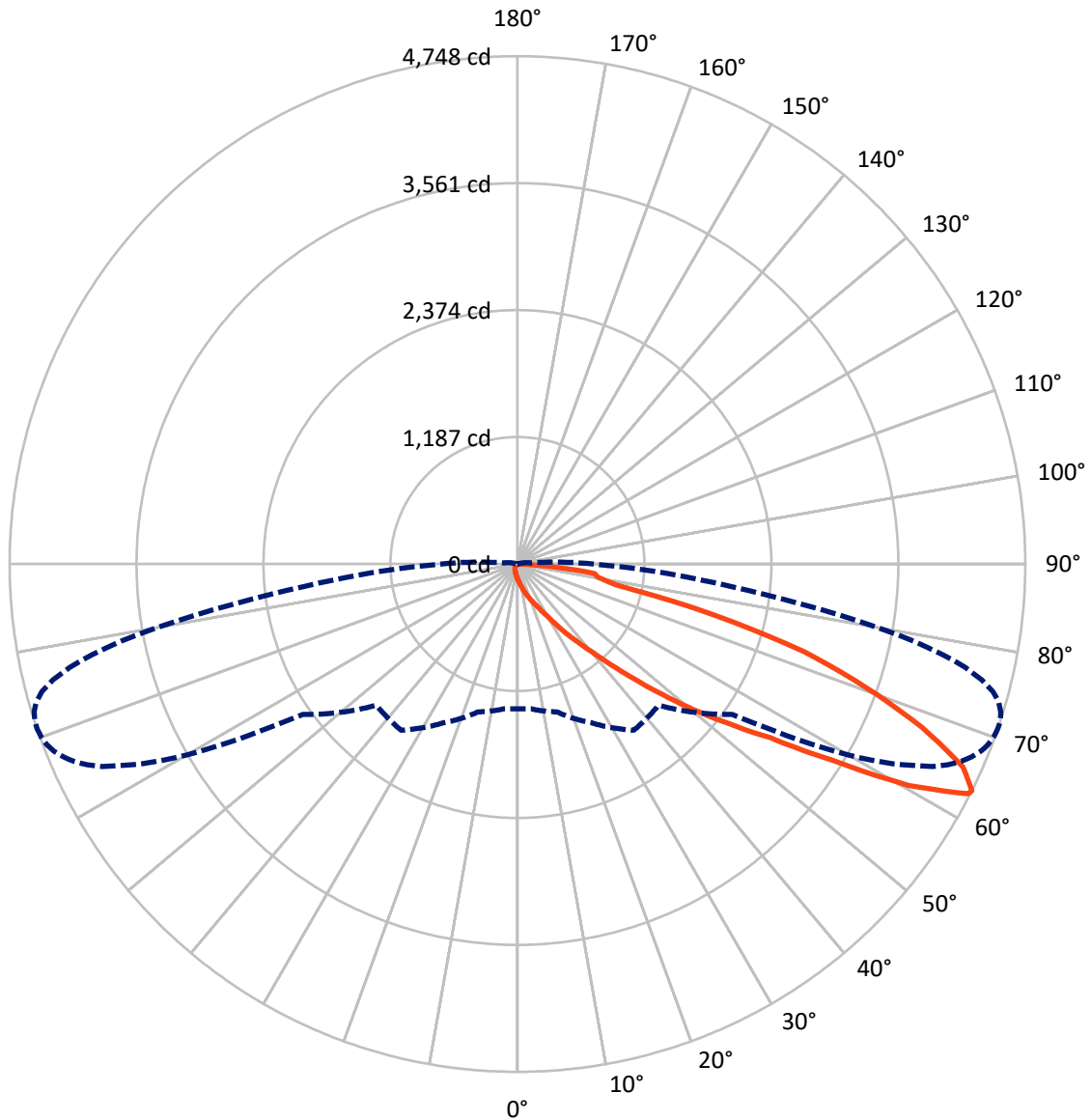
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P163297
CATALOG NUMBER: LDRC-SL2-E02-E-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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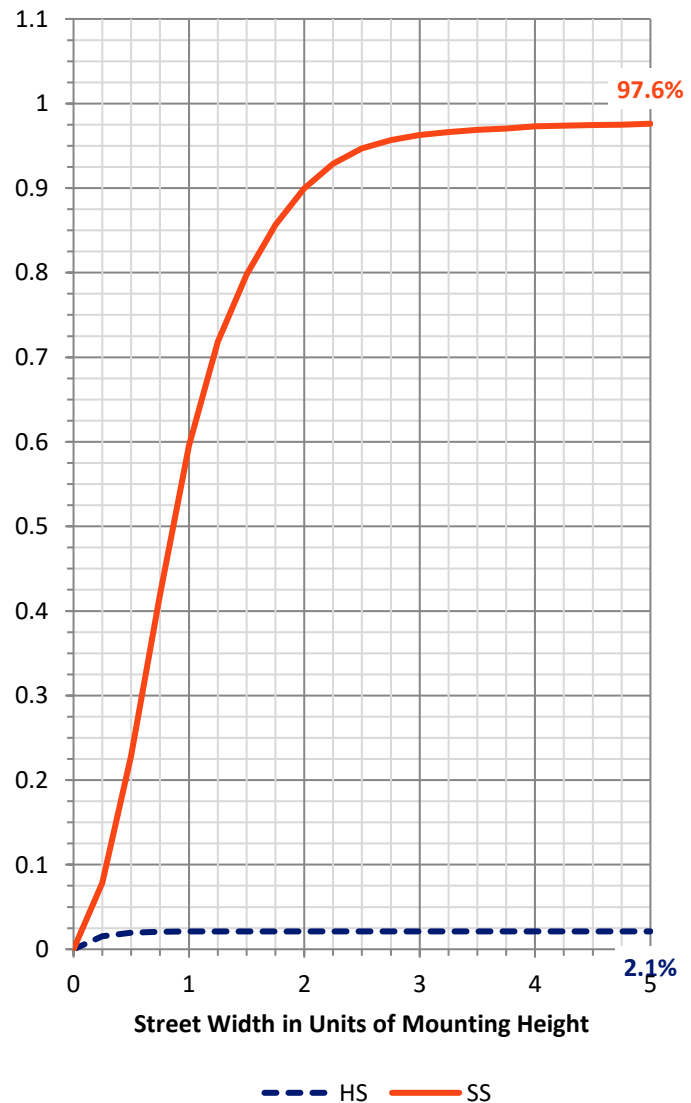
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 75.5 | 0.0 | 75.5 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 3481.6 | 0.0 | 3481.6 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 3557.1 | 0.0 | 3557.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 15.1 | 0.4 |
| 10°-20° | 58.5 | 1.6 |
| 20°-30° | 118.8 | 3.3 |
| 30°-40° | 290.2 | 8.2 |
| 40°-50° | 649.1 | 18.2 |
| 50°-60° | 912.7 | 25.7 |
| 60°-70° | 1073.3 | 30.2 |
| 70°-80° | 387.6 | 10.9 |
| 80°-90° | 51.8 | 1.5 |
| 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° | 3557.1 | 100.0 |
| 0°-180° | 3557.1 | 100.0 |



REPORT NUMBER: P163297

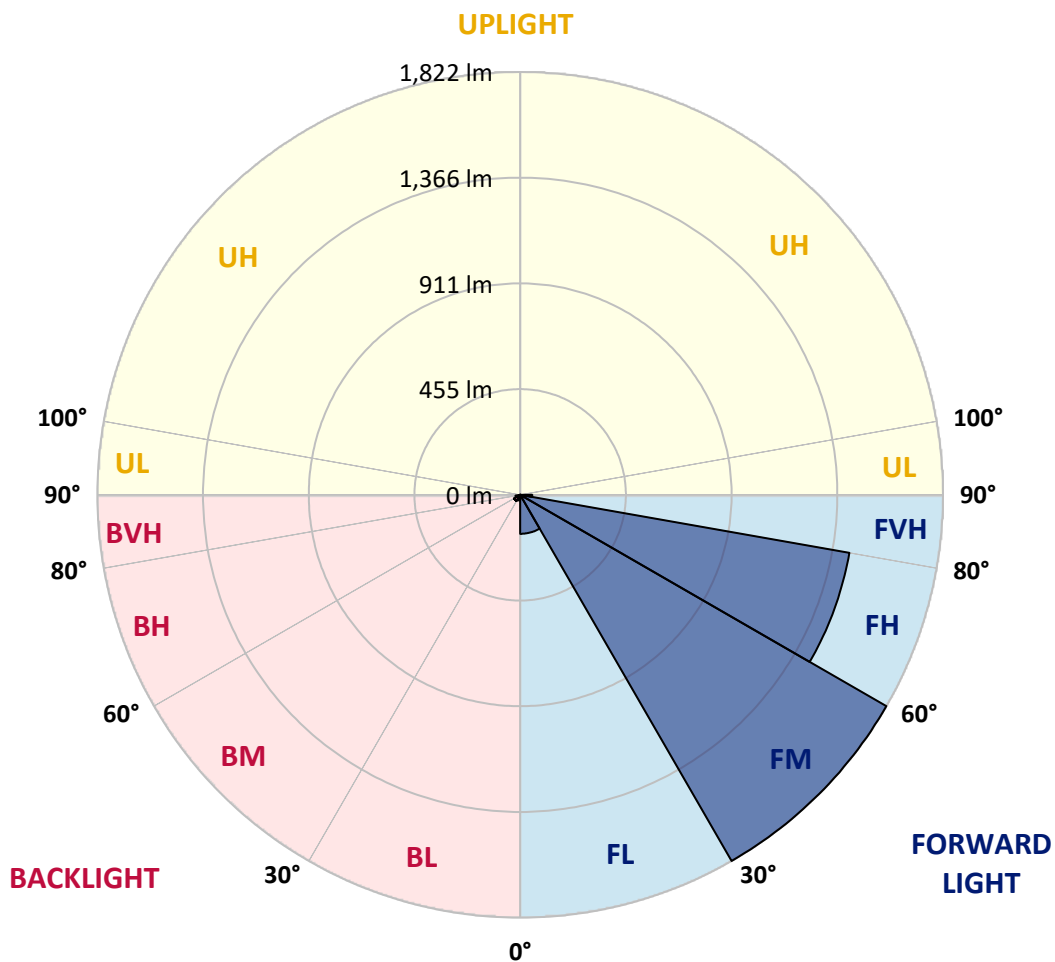
CATALOG NUMBER: LDRC-SL2-E02-E-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 168.1 | 4.7 | | | |
| FM | (30°-60°) | 1821.6 | 51.2 | | | |
| FH | (60°-80°) | 1440.1 | 40.5 | | | G1/1800 |
| FVH | (80°-90°) | 51.7 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 24.3 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 30.4 | 0.9 | B0/220 | | |
| BH | (60°-80°) | 20.7 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.1 | 0.0 | | | 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 II Short





REPORT NUMBER: P163297

CATALOG NUMBER: LDRC-SL2-E02-E-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 |
| 2.5° | 178.5 | 180.4 | 179.1 | 175.9 | 172.0 | 166.8 | 162.3 | 162.3 | 161.7 | 159.7 | 160.4 |
| 5° | 234.1 | 234.7 | 232.2 | 224.4 | 217.3 | 206.3 | 194.0 | 192.7 | 191.4 | 189.5 | 188.8 |
| 7.5° | 288.4 | 291.0 | 288.4 | 280.0 | 265.8 | 249.0 | 229.6 | 227.6 | 223.8 | 223.8 | 221.2 |
| 10° | 344.0 | 344.0 | 341.4 | 331.7 | 318.8 | 294.9 | 270.3 | 267.1 | 262.6 | 261.2 | 257.4 |
| 12.5° | 383.5 | 383.5 | 382.2 | 377.0 | 366.6 | 345.3 | 315.6 | 312.3 | 306.5 | 304.6 | 300.0 |
| 15° | 399.0 | 399.0 | 399.6 | 404.2 | 404.8 | 395.1 | 364.1 | 361.5 | 355.7 | 350.5 | 348.6 |
| 17.5° | 408.7 | 408.0 | 408.0 | 414.5 | 426.2 | 432.6 | 412.6 | 410.0 | 403.5 | 400.9 | 394.5 |
| 20° | 430.0 | 428.7 | 424.8 | 424.8 | 435.8 | 458.5 | 458.5 | 457.8 | 450.7 | 448.8 | 445.6 |
| 22.5° | 461.7 | 460.4 | 448.8 | 439.1 | 444.2 | 472.7 | 499.2 | 497.9 | 495.4 | 492.8 | 490.8 |
| 25° | 513.4 | 508.9 | 488.9 | 460.4 | 455.9 | 486.3 | 530.3 | 533.5 | 535.4 | 535.4 | 536.7 |
| 27.5° | 591.7 | 585.9 | 550.3 | 497.3 | 477.2 | 508.3 | 564.5 | 571.0 | 576.8 | 578.1 | 583.9 |
| 30° | 700.3 | 690.0 | 638.9 | 561.3 | 515.4 | 540.6 | 615.0 | 622.1 | 630.5 | 633.1 | 642.1 |
| 32.5° | 878.8 | 873.0 | 823.8 | 707.4 | 609.2 | 604.0 | 685.4 | 694.5 | 705.5 | 710.0 | 721.0 |
| 35° | 1150.4 | 1151.7 | 1111.6 | 1006.8 | 871.0 | 799.9 | 811.6 | 819.3 | 823.2 | 836.8 | 842.6 |
| 37.5° | 1334.7 | 1337.9 | 1347.0 | 1305.6 | 1208.6 | 1136.2 | 1045.0 | 1053.4 | 1033.4 | 1035.3 | 1036.0 |
| 40° | 1435.6 | 1445.9 | 1499.0 | 1539.0 | 1531.3 | 1489.2 | 1416.2 | 1420.7 | 1383.2 | 1374.8 | 1334.0 |
| 42.5° | 1502.8 | 1516.4 | 1601.1 | 1725.3 | 1788.7 | 1826.8 | 1810.0 | 1808.1 | 1779.0 | 1768.0 | 1733.7 |
| 45° | 1544.9 | 1557.2 | 1663.8 | 1846.9 | 1993.0 | 2104.2 | 2150.2 | 2155.3 | 2130.8 | 2119.8 | 2091.3 |
| 47.5° | 1542.9 | 1557.2 | 1671.6 | 1892.1 | 2107.5 | 2285.3 | 2414.6 | 2421.1 | 2436.0 | 2426.3 | 2428.2 |
| 50° | 1457.6 | 1471.2 | 1586.2 | 1815.2 | 2073.8 | 2368.1 | 2604.8 | 2625.4 | 2649.4 | 2665.5 | 2673.3 |
| 52.5° | 1354.1 | 1363.8 | 1466.0 | 1683.2 | 1930.3 | 2333.8 | 2717.3 | 2752.8 | 2788.4 | 2818.8 | 2840.1 |
| 55° | 1316.0 | 1327.0 | 1407.1 | 1587.6 | 1815.2 | 2190.2 | 2769.6 | 2822.0 | 2872.5 | 2922.2 | 2963.0 |
| 57.5° | 1336.0 | 1346.4 | 1403.9 | 1542.3 | 1746.6 | 2038.9 | 2784.5 | 2866.0 | 2948.8 | 3029.6 | 3109.8 |
| 60° | 1409.7 | 1420.7 | 1469.8 | 1584.3 | 1728.5 | 1951.6 | 2726.3 | 2861.5 | 2999.2 | 3140.2 | 3272.8 |
| 62.5° | 1380.6 | 1385.2 | 1457.6 | 1658.0 | 1857.8 | 1877.2 | 2514.9 | 2703.7 | 2913.8 | 3131.1 | 3345.2 |
| 63° | 1352.8 | 1358.0 | 1431.7 | 1638.0 | 1897.3 | 1866.3 | 2449.6 | 2648.7 | 2870.5 | 3104.6 | 3337.4 |
| 65° | 1226.7 | 1227.4 | 1283.6 | 1446.6 | 1853.3 | 1885.7 | 2158.6 | 2348.7 | 2603.4 | 2884.1 | 3178.3 |
| 67.5° | 915.7 | 911.2 | 965.5 | 1089.6 | 1455.0 | 1886.3 | 1852.7 | 1959.4 | 2136.6 | 2385.5 | 2649.4 |
| 70° | 324.6 | 317.5 | 405.4 | 577.5 | 906.6 | 1542.9 | 1592.1 | 1599.2 | 1648.3 | 1782.8 | 1948.4 |
| 72.5° | 105.4 | 107.4 | 129.3 | 211.4 | 417.8 | 1038.5 | 1441.4 | 1419.4 | 1406.5 | 1405.8 | 1427.8 |
| 75° | 42.0 | 42.7 | 51.7 | 93.8 | 187.5 | 500.5 | 1262.3 | 1274.6 | 1279.1 | 1285.6 | 1292.7 |
| 77.5° | 20.0 | 22.0 | 29.1 | 52.4 | 93.1 | 247.7 | 903.4 | 1007.5 | 1067.0 | 1112.9 | 1140.7 |
| 80° | 7.1 | 8.4 | 16.2 | 32.3 | 43.3 | 113.8 | 476.0 | 574.2 | 661.5 | 774.0 | 871.0 |
| 82.5° | 0.0 | 0.0 | 3.2 | 22.6 | 23.9 | 45.9 | 195.3 | 228.9 | 261.9 | 339.5 | 435.8 |
| 85° | 0.0 | 0.0 | 0.0 | 6.5 | 7.1 | 7.8 | 66.0 | 79.5 | 89.2 | 104.1 | 120.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.9 | 3.9 | 9.7 | 14.9 |
| 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: P163297

CATALOG NUMBER: LDRC-SL2-E02-E-HSS

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 |
| 2.5° | 159.1 | 158.4 | 158.4 | 157.1 | 156.5 | 155.2 | 154.6 | 152.6 | 152.0 | 152.0 | 152.0 |
| 5° | 188.2 | 185.6 | 184.3 | 181.1 | 179.1 | 178.5 | 175.2 | 174.0 | 172.0 | 172.6 | 169.4 |
| 7.5° | 220.5 | 216.0 | 214.0 | 209.5 | 208.2 | 203.7 | 202.4 | 199.2 | 197.2 | 193.4 | 192.0 |
| 10° | 256.1 | 250.2 | 247.0 | 239.9 | 238.0 | 234.7 | 230.8 | 227.0 | 223.8 | 219.9 | 217.9 |
| 12.5° | 296.8 | 291.6 | 289.0 | 279.4 | 274.8 | 270.3 | 265.1 | 260.0 | 254.8 | 251.6 | 247.0 |
| 15° | 344.7 | 336.3 | 333.7 | 324.6 | 316.9 | 311.0 | 303.9 | 297.5 | 293.6 | 287.1 | 282.6 |
| 17.5° | 391.9 | 383.5 | 381.5 | 368.0 | 359.6 | 355.7 | 347.9 | 339.5 | 332.4 | 325.9 | 318.8 |
| 20° | 439.1 | 433.3 | 428.1 | 415.2 | 406.1 | 399.6 | 389.3 | 380.9 | 375.1 | 366.0 | 357.0 |
| 22.5° | 486.3 | 480.5 | 476.6 | 463.0 | 454.6 | 445.6 | 436.5 | 427.4 | 419.0 | 408.0 | 397.7 |
| 25° | 534.8 | 530.9 | 529.0 | 516.7 | 508.9 | 500.5 | 491.5 | 481.1 | 470.8 | 458.5 | 447.5 |
| 27.5° | 585.2 | 586.5 | 582.6 | 580.0 | 571.6 | 565.8 | 551.6 | 544.5 | 536.7 | 521.8 | 508.3 |
| 30° | 649.2 | 653.1 | 651.8 | 653.8 | 648.6 | 644.7 | 633.7 | 624.7 | 615.6 | 601.4 | 585.9 |
| 32.5° | 730.1 | 735.2 | 737.8 | 745.0 | 742.4 | 741.1 | 737.8 | 724.9 | 718.4 | 693.9 | 687.4 |
| 35° | 854.9 | 852.3 | 863.3 | 869.1 | 866.5 | 865.2 | 861.4 | 854.2 | 846.5 | 829.0 | 812.8 |
| 37.5° | 1017.2 | 1019.8 | 1023.7 | 1012.0 | 1004.3 | 1003.6 | 992.0 | 984.9 | 973.9 | 954.5 | 935.1 |
| 40° | 1314.6 | 1298.5 | 1280.4 | 1231.2 | 1209.9 | 1197.6 | 1163.4 | 1153.6 | 1134.9 | 1108.4 | 1088.3 |
| 42.5° | 1701.4 | 1685.2 | 1630.9 | 1548.8 | 1504.8 | 1444.0 | 1416.2 | 1381.9 | 1355.4 | 1312.1 | 1288.8 |
| 45° | 2085.5 | 2038.9 | 2032.4 | 1936.8 | 1882.4 | 1802.2 | 1752.4 | 1694.9 | 1634.8 | 1577.8 | 1536.5 |
| 47.5° | 2409.4 | 2399.1 | 2367.4 | 2309.2 | 2258.8 | 2191.5 | 2127.5 | 2038.9 | 1976.8 | 1896.0 | 1821.6 |
| 50° | 2668.8 | 2668.1 | 2656.5 | 2622.8 | 2580.8 | 2526.5 | 2470.2 | 2395.2 | 2324.8 | 2225.8 | 2146.3 |
| 52.5° | 2862.8 | 2873.1 | 2877.0 | 2866.6 | 2850.5 | 2802.6 | 2774.2 | 2711.4 | 2652.0 | 2567.9 | 2481.9 |
| 55° | 3005.0 | 3043.2 | 3062.6 | 3084.6 | 3080.0 | 3063.2 | 3061.9 | 3021.2 | 2994.0 | 2927.4 | 2866.6 |
| 57.5° | 3180.9 | 3243.6 | 3303.8 | 3410.5 | 3414.4 | 3451.9 | 3471.3 | 3490.7 | 3495.8 | 3469.3 | 3449.3 |
| 60° | 3404.7 | 3532.7 | 3646.5 | 3869.6 | 3927.8 | 4019.6 | 4079.1 | 4143.8 | 4198.8 | 4203.3 | 4202.0 |
| 62.5° | 3562.4 | 3759.7 | 3943.3 | 4274.4 | 4387.6 | 4493.6 | 4573.2 | 4635.9 | 4674.0 | 4712.8 | 4731.0 |
| 63° | 3567.0 | 3783.0 | 3978.2 | 4319.7 | 4438.7 | 4539.6 | 4615.2 | 4673.4 | 4713.5 | 4736.8 | 4748.4 |
| 65° | 3457.7 | 3719.6 | 3952.4 | 4292.5 | 4404.4 | 4505.9 | 4545.4 | 4583.5 | 4602.9 | 4612.0 | 4577.7 |
| 67.5° | 2930.7 | 3186.8 | 3458.3 | 3838.6 | 3934.3 | 4055.8 | 4088.2 | 4107.6 | 4116.6 | 4114.7 | 4085.6 |
| 70° | 2191.5 | 2406.2 | 2708.2 | 3142.8 | 3269.5 | 3388.5 | 3462.2 | 3493.9 | 3504.2 | 3501.0 | 3457.7 |
| 72.5° | 1530.0 | 1656.1 | 1905.1 | 2388.8 | 2561.4 | 2714.0 | 2805.2 | 2852.4 | 2862.1 | 2842.7 | 2802.6 |
| 75° | 1284.9 | 1291.4 | 1347.6 | 1612.1 | 1773.8 | 1936.8 | 2039.6 | 2069.3 | 2049.9 | 1991.1 | 1888.9 |
| 77.5° | 1147.2 | 1161.4 | 1161.4 | 1200.8 | 1232.5 | 1277.8 | 1287.5 | 1215.1 | 1131.0 | 1022.4 | 934.4 |
| 80° | 962.2 | 1012.0 | 1047.0 | 1076.0 | 1079.3 | 1070.2 | 1046.3 | 1005.6 | 940.9 | 858.1 | 766.3 |
| 82.5° | 584.6 | 682.9 | 723.0 | 873.0 | 946.7 | 996.5 | 992.6 | 938.3 | 889.2 | 803.2 | 724.9 |
| 85° | 147.4 | 159.1 | 172.6 | 224.4 | 251.6 | 307.2 | 342.1 | 358.2 | 364.1 | 334.3 | 302.6 |
| 87.5° | 14.2 | 9.7 | 16.2 | 12.3 | 17.4 | 12.9 | 17.4 | 16.2 | 20.0 | 21.3 | 23.3 |
| 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: P163297

CATALOG NUMBER: LDRC-SL2-E02-E-HSS

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 |
| 2.5° | 150.7 | 150.0 | 149.4 | 148.7 | 148.1 | 147.4 | 146.2 | 146.2 | 144.8 | 144.2 | 143.6 |
| 5° | 167.5 | 166.2 | 165.6 | 164.2 | 162.3 | 161.0 | 159.1 | 156.5 | 154.6 | 153.9 | 152.6 |
| 7.5° | 188.8 | 185.6 | 184.3 | 182.4 | 179.8 | 175.9 | 173.3 | 171.4 | 168.1 | 166.2 | 162.3 |
| 10° | 212.8 | 209.5 | 205.6 | 201.8 | 197.9 | 193.4 | 190.1 | 187.5 | 182.4 | 179.8 | 175.2 |
| 12.5° | 243.2 | 237.3 | 232.8 | 227.6 | 222.4 | 217.3 | 213.4 | 205.6 | 201.1 | 195.3 | 191.4 |
| 15° | 274.2 | 269.0 | 263.8 | 257.4 | 249.6 | 241.2 | 237.3 | 230.2 | 224.4 | 215.3 | 210.2 |
| 17.5° | 311.7 | 302.0 | 294.2 | 286.5 | 279.4 | 271.6 | 263.8 | 252.8 | 244.4 | 236.7 | 226.3 |
| 20° | 348.6 | 336.9 | 328.5 | 318.2 | 307.8 | 295.5 | 286.5 | 278.7 | 267.1 | 256.7 | 245.7 |
| 22.5° | 388.0 | 376.4 | 362.8 | 352.4 | 338.2 | 328.5 | 316.2 | 303.3 | 291.6 | 278.1 | 264.5 |
| 25° | 435.8 | 423.6 | 408.0 | 394.5 | 378.3 | 364.7 | 349.8 | 335.0 | 320.8 | 305.2 | 287.8 |
| 27.5° | 494.7 | 481.8 | 465.0 | 448.8 | 427.4 | 410.6 | 396.4 | 376.4 | 358.2 | 338.8 | 318.8 |
| 30° | 569.1 | 554.8 | 534.2 | 510.9 | 489.5 | 470.8 | 450.7 | 424.2 | 404.2 | 380.9 | 355.0 |
| 32.5° | 666.0 | 649.2 | 621.4 | 599.4 | 573.0 | 548.4 | 520.6 | 494.0 | 465.6 | 435.2 | 405.4 |
| 35° | 788.3 | 772.8 | 740.4 | 708.1 | 679.0 | 649.9 | 615.0 | 584.6 | 544.5 | 507.6 | 469.5 |
| 37.5° | 915.0 | 887.2 | 857.5 | 822.6 | 786.3 | 751.4 | 708.7 | 666.7 | 620.8 | 580.7 | 532.8 |
| 40° | 1059.9 | 1026.2 | 1001.7 | 964.2 | 913.1 | 863.3 | 823.8 | 771.5 | 713.9 | 660.2 | 604.0 |
| 42.5° | 1258.4 | 1220.9 | 1176.9 | 1120.0 | 1083.2 | 1025.0 | 973.9 | 911.8 | 836.1 | 776.0 | 708.1 |
| 45° | 1488.0 | 1436.9 | 1394.2 | 1339.2 | 1294.6 | 1222.2 | 1162.7 | 1079.9 | 1004.3 | 925.4 | 842.6 |
| 47.5° | 1749.9 | 1686.5 | 1624.4 | 1570.1 | 1499.0 | 1427.8 | 1352.2 | 1264.2 | 1167.2 | 1080.6 | 982.3 |
| 50° | 2050.6 | 1960.7 | 1874.7 | 1804.8 | 1707.2 | 1625.0 | 1542.9 | 1444.0 | 1336.6 | 1237.1 | 1125.2 |
| 52.5° | 2384.9 | 2280.8 | 2167.0 | 2059.6 | 1946.4 | 1841.0 | 1742.1 | 1628.3 | 1508.6 | 1387.1 | 1262.3 |
| 55° | 2788.4 | 2710.2 | 2576.3 | 2439.8 | 2288.5 | 2147.6 | 2020.2 | 1879.2 | 1733.7 | 1574.0 | 1442.7 |
| 57.5° | 3420.2 | 3382.0 | 3270.2 | 3133.7 | 2936.5 | 2765.1 | 2549.1 | 2376.5 | 2165.7 | 1945.8 | 1776.4 |
| 60° | 4276.4 | 4229.2 | 4166.4 | 4055.8 | 3899.4 | 3666.6 | 3428.6 | 3160.2 | 2839.5 | 2534.9 | 2245.8 |
| 62.5° | 4732.9 | 4716.1 | 4665.0 | 4588.7 | 4442.6 | 4258.9 | 4019.0 | 3724.1 | 3362.0 | 2992.1 | 2623.5 |
| 63° | 4746.5 | 4725.2 | 4681.2 | 4603.6 | 4474.9 | 4297.0 | 4061.7 | 3775.2 | 3420.8 | 3043.8 | 2667.5 |
| 65° | 4562.8 | 4554.4 | 4509.8 | 4425.1 | 4337.2 | 4201.4 | 4019.0 | 3772.6 | 3475.2 | 3118.8 | 2744.4 |
| 67.5° | 4046.8 | 4021.6 | 3953.0 | 3927.2 | 3865.7 | 3771.3 | 3632.3 | 3462.9 | 3250.1 | 2970.1 | 2646.8 |
| 70° | 3422.8 | 3385.3 | 3299.2 | 3253.4 | 3178.3 | 3118.8 | 3034.1 | 2913.2 | 2781.9 | 2586.6 | 2345.4 |
| 72.5° | 2761.2 | 2683.6 | 2604.8 | 2485.1 | 2380.4 | 2274.3 | 2180.5 | 2095.2 | 1951.0 | 1872.1 | 1689.1 |
| 75° | 1793.2 | 1652.2 | 1517.1 | 1336.0 | 1173.0 | 1028.8 | 888.5 | 817.4 | 669.3 | 609.2 | 523.2 |
| 77.5° | 851.0 | 772.1 | 666.0 | 583.9 | 479.2 | 391.2 | 319.4 | 239.9 | 188.2 | 147.4 | 112.5 |
| 80° | 686.8 | 620.2 | 556.1 | 481.8 | 402.9 | 321.4 | 246.4 | 184.3 | 130.6 | 90.5 | 64.0 |
| 82.5° | 612.4 | 540.0 | 461.1 | 410.0 | 356.3 | 291.6 | 239.3 | 195.3 | 144.2 | 105.4 | 71.8 |
| 85° | 238.0 | 200.5 | 154.6 | 126.1 | 98.3 | 80.8 | 73.1 | 50.4 | 39.4 | 31.0 | 23.9 |
| 87.5° | 20.7 | 16.8 | 13.6 | 9.0 | 9.7 | 5.2 | 5.8 | 3.9 | 3.2 | 3.2 | 2.6 |
| 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: P163297

CATALOG NUMBER: LDRC-SL2-E02-E-HSS

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 |
| 2.5° | 142.9 | 142.3 | 141.6 | 140.3 | 140.3 | 139.0 | 138.4 | 137.7 | 134.5 | 127.4 | 121.6 |
| 5° | 150.0 | 148.7 | 147.4 | 145.5 | 144.2 | 142.3 | 141.0 | 139.0 | 131.9 | 118.3 | 106.7 |
| 7.5° | 160.4 | 157.8 | 155.8 | 152.0 | 150.0 | 147.4 | 145.5 | 142.3 | 130.6 | 109.9 | 93.8 |
| 10° | 172.6 | 168.1 | 164.9 | 160.4 | 156.5 | 153.2 | 150.0 | 145.5 | 129.3 | 100.9 | 82.1 |
| 12.5° | 187.5 | 182.4 | 175.9 | 170.7 | 165.6 | 161.0 | 156.5 | 150.7 | 127.4 | 93.1 | 73.1 |
| 15° | 202.4 | 194.6 | 190.1 | 183.0 | 175.9 | 169.4 | 163.0 | 157.8 | 128.0 | 84.7 | 65.3 |
| 17.5° | 219.2 | 211.4 | 201.8 | 194.0 | 186.2 | 177.8 | 170.1 | 159.7 | 124.8 | 78.2 | 59.5 |
| 20° | 235.4 | 224.4 | 215.3 | 205.6 | 194.6 | 184.3 | 174.6 | 165.6 | 122.2 | 71.8 | 54.3 |
| 22.5° | 252.8 | 239.9 | 228.3 | 216.0 | 202.4 | 190.8 | 179.1 | 167.5 | 117.7 | 66.0 | 49.8 |
| 25° | 274.2 | 259.3 | 242.5 | 227.6 | 213.4 | 199.2 | 184.3 | 170.1 | 113.2 | 60.8 | 46.6 |
| 27.5° | 300.0 | 280.6 | 263.8 | 245.1 | 225.0 | 206.9 | 190.8 | 175.2 | 108.6 | 56.9 | 43.3 |
| 30° | 333.0 | 310.4 | 286.5 | 262.6 | 241.2 | 220.5 | 197.9 | 178.5 | 104.1 | 53.0 | 40.1 |
| 32.5° | 377.0 | 348.6 | 319.4 | 291.6 | 263.2 | 236.7 | 212.8 | 187.5 | 101.5 | 49.8 | 36.8 |
| 35° | 435.2 | 398.4 | 362.8 | 327.8 | 293.6 | 261.2 | 230.2 | 201.8 | 101.5 | 45.9 | 33.0 |
| 37.5° | 490.2 | 447.5 | 402.2 | 358.9 | 318.2 | 280.6 | 243.8 | 209.5 | 96.4 | 42.7 | 29.8 |
| 40° | 549.7 | 498.6 | 445.6 | 394.5 | 345.3 | 298.8 | 256.7 | 217.3 | 91.8 | 38.8 | 26.5 |
| 42.5° | 640.8 | 576.2 | 507.0 | 447.5 | 388.6 | 331.1 | 278.7 | 232.2 | 86.0 | 34.9 | 23.3 |
| 45° | 760.5 | 678.4 | 596.9 | 524.4 | 449.4 | 379.0 | 316.9 | 259.3 | 84.7 | 31.7 | 20.0 |
| 47.5° | 888.5 | 791.5 | 695.8 | 603.3 | 515.4 | 433.3 | 358.9 | 289.7 | 84.7 | 28.4 | 17.4 |
| 50° | 1015.9 | 894.3 | 792.2 | 684.8 | 585.9 | 488.9 | 400.3 | 321.4 | 85.4 | 25.9 | 14.2 |
| 52.5° | 1131.0 | 1001.0 | 886.6 | 762.4 | 653.1 | 540.6 | 444.2 | 352.4 | 84.1 | 22.6 | 11.6 |
| 55° | 1290.7 | 1138.1 | 1005.6 | 868.5 | 740.4 | 613.7 | 504.4 | 399.0 | 84.7 | 20.0 | 9.7 |
| 57.5° | 1585.0 | 1405.8 | 1246.1 | 1066.4 | 918.9 | 755.3 | 622.7 | 494.7 | 92.5 | 16.8 | 7.1 |
| 60° | 2007.2 | 1774.4 | 1550.0 | 1330.8 | 1143.3 | 948.6 | 776.6 | 626.0 | 108.6 | 13.6 | 5.2 |
| 62.5° | 2291.1 | 1986.5 | 1718.8 | 1477.0 | 1259.0 | 1055.4 | 867.8 | 696.4 | 119.6 | 11.0 | 3.2 |
| 63° | 2320.2 | 2005.3 | 1736.3 | 1486.7 | 1264.2 | 1060.5 | 871.7 | 701.6 | 120.3 | 10.4 | 3.2 |
| 65° | 2375.2 | 2037.6 | 1746.0 | 1488.6 | 1259.0 | 1053.4 | 869.1 | 701.0 | 121.6 | 8.4 | 2.6 |
| 67.5° | 2312.4 | 1987.8 | 1689.7 | 1433.0 | 1213.8 | 1011.4 | 836.8 | 675.1 | 120.9 | 5.8 | 1.9 |
| 70° | 2068.0 | 1799.0 | 1537.1 | 1297.8 | 1098.7 | 915.7 | 761.8 | 615.6 | 111.2 | 3.9 | 1.3 |
| 72.5° | 1518.4 | 1335.4 | 1132.3 | 959.6 | 827.7 | 687.4 | 586.5 | 462.4 | 86.0 | 2.6 | 0.6 |
| 75° | 450.1 | 410.0 | 344.7 | 303.9 | 268.4 | 221.8 | 197.2 | 153.9 | 44.0 | 1.3 | 0.0 |
| 77.5° | 89.9 | 81.5 | 73.1 | 66.6 | 62.7 | 53.7 | 51.1 | 42.0 | 18.1 | 0.6 | 0.0 |
| 80° | 47.2 | 38.8 | 33.0 | 29.1 | 25.2 | 20.7 | 17.4 | 14.2 | 3.2 | 0.0 | 0.0 |
| 82.5° | 45.3 | 30.4 | 22.0 | 18.1 | 15.5 | 12.3 | 9.7 | 7.1 | 1.9 | 0.0 | 0.0 |
| 85° | 16.8 | 12.9 | 9.7 | 7.8 | 6.5 | 5.8 | 4.5 | 3.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.6 | 1.9 | 1.9 | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 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: P163297

CATALOG NUMBER: LDRC-SL2-E02-E-HSS

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 | 136.4 |
| 2.5° | 115.8 | 110.6 | 108.0 | 104.8 | 104.8 | 104.1 | 105.4 |
| 5° | 96.4 | 89.2 | 84.1 | 80.2 | 80.8 | 78.9 | 79.5 |
| 7.5° | 81.5 | 74.4 | 69.8 | 67.2 | 66.6 | 66.0 | 66.0 |
| 10° | 70.5 | 64.0 | 60.1 | 58.2 | 57.6 | 57.6 | 57.6 |
| 12.5° | 62.7 | 56.2 | 53.0 | 51.7 | 51.7 | 51.1 | 51.1 |
| 15° | 56.2 | 51.1 | 47.8 | 46.6 | 46.6 | 45.9 | 46.6 |
| 17.5° | 51.1 | 45.9 | 43.3 | 42.0 | 42.0 | 41.4 | 41.4 |
| 20° | 46.6 | 42.0 | 39.4 | 37.5 | 37.5 | 36.8 | 37.5 |
| 22.5° | 42.7 | 38.2 | 34.9 | 33.6 | 33.0 | 32.3 | 33.0 |
| 25° | 38.8 | 34.3 | 31.0 | 29.1 | 28.4 | 28.4 | 27.8 |
| 27.5° | 35.6 | 31.0 | 27.2 | 25.2 | 24.6 | 24.6 | 23.9 |
| 30° | 32.3 | 27.2 | 23.3 | 21.3 | 20.7 | 20.7 | 20.7 |
| 32.5° | 29.1 | 23.3 | 20.0 | 18.1 | 17.4 | 17.4 | 17.4 |
| 35° | 25.9 | 20.0 | 16.8 | 14.9 | 14.2 | 14.2 | 14.2 |
| 37.5° | 22.0 | 16.8 | 12.9 | 11.6 | 11.0 | 10.4 | 10.4 |
| 40° | 18.8 | 12.9 | 9.7 | 8.4 | 7.1 | 7.1 | 7.1 |
| 42.5° | 15.5 | 10.4 | 7.1 | 5.2 | 4.5 | 3.9 | 4.5 |
| 45° | 12.9 | 7.8 | 4.5 | 2.6 | 1.9 | 1.9 | 1.9 |
| 47.5° | 10.4 | 5.2 | 1.9 | 0.6 | 0.6 | 0.6 | 0.6 |
| 50° | 7.8 | 3.2 | 0.6 | 0.0 | 0.0 | 0.6 | 0.6 |
| 52.5° | 5.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 3.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)