

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: P146618

Luminaire Tested: **LDRL-T3-E05-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146618  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33695)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-T3-E05-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12600 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

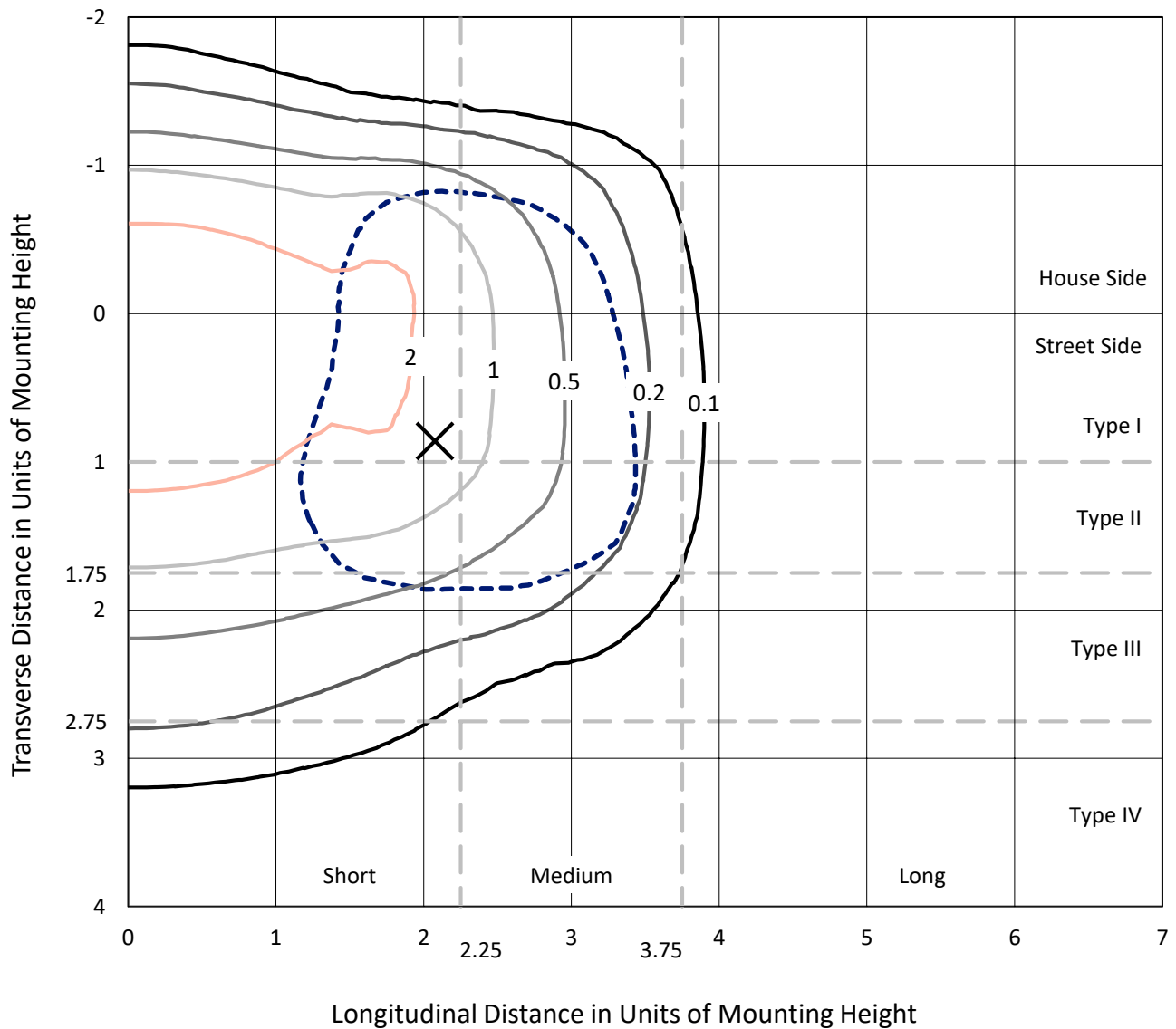
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

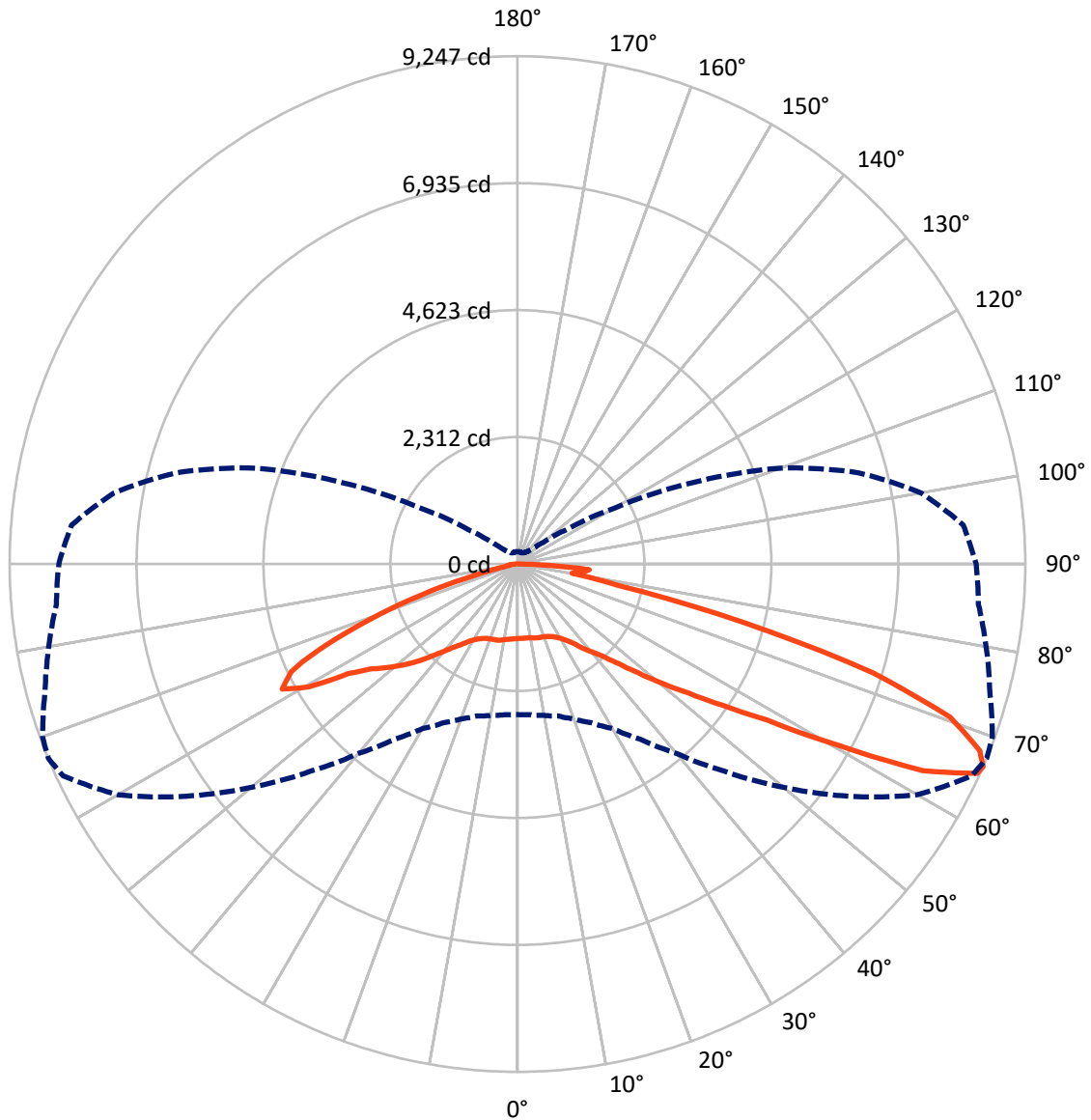
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: LDRL-T3-E05-E-8030

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4280.6   | 0.0    | 4280.6  |
|                    | % Fixture | 34.0     | 0.0    | 34.0    |
| <b>Street Side</b> | Lumens    | 8319.3   | 0.0    | 8319.3  |
|                    | % Fixture | 66.0     | 0.0    | 66.0    |
| <b>Total</b>       | Lumens    | 12600.0  | 0.0    | 12600.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 130.3   | 1.0       |
| 10°-20°   | 386.1   | 3.1       |
| 20°-30°   | 663.7   | 5.3       |
| 30°-40°   | 1067.4  | 8.5       |
| 40°-50°   | 1759.4  | 14.0      |
| 50°-60°   | 2757.8  | 21.9      |
| 60°-70°   | 3816.6  | 30.3      |
| 70°-80°   | 1727.2  | 13.7      |
| 80°-90°   | 291.4   | 2.3       |
| 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°    | 12600.0 | 100.0     |
| 0°-180°   | 12600.0 | 100.0     |



REPORT NUMBER: P146618

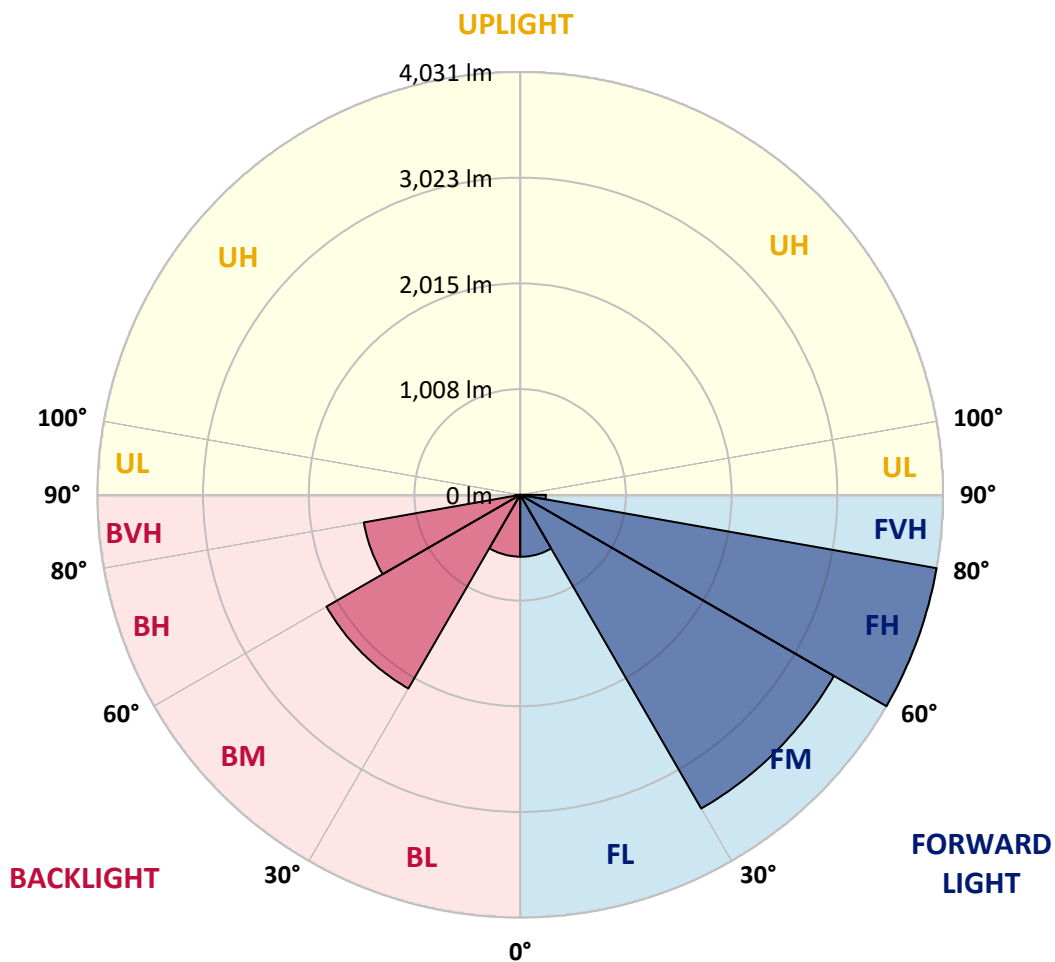
CATALOG NUMBER: LDRL-T3-E05-E-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 591.0  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 3452.9 | 27.4      |                         |      |         |
| FH   | (60°-80°)   | 4030.6 | 32.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 244.9  | 1.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 589.0  | 4.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2131.8 | 16.9      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1513.3 | 12.0      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 46.5   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





REPORT NUMBER: P146618

CATALOG NUMBER: LDRL-T3-E05-E-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 |
| 2.5°  | 1354.6 | 1353.8 | 1352.9 | 1352.9 | 1352.1 | 1352.9 | 1353.8 | 1354.6 | 1353.8 | 1354.6 | 1353.8 |
| 5°    | 1352.1 | 1352.1 | 1351.2 | 1351.2 | 1351.2 | 1351.2 | 1352.1 | 1352.9 | 1352.1 | 1353.8 | 1352.1 |
| 7.5°  | 1341.1 | 1346.2 | 1344.5 | 1346.2 | 1347.9 | 1349.5 | 1350.4 | 1352.1 | 1354.6 | 1356.3 | 1354.6 |
| 10°   | 1326.8 | 1329.3 | 1330.1 | 1331.8 | 1335.2 | 1339.4 | 1342.8 | 1347.0 | 1352.9 | 1354.6 | 1356.3 |
| 12.5° | 1300.6 | 1304.0 | 1306.5 | 1309.9 | 1314.9 | 1321.7 | 1327.6 | 1334.3 | 1344.5 | 1351.2 | 1357.1 |
| 15°   | 1281.2 | 1285.4 | 1286.2 | 1290.5 | 1295.5 | 1303.1 | 1310.7 | 1320.8 | 1334.3 | 1346.2 | 1358.0 |
| 17.5° | 1293.8 | 1295.5 | 1293.8 | 1293.8 | 1295.5 | 1298.9 | 1304.8 | 1313.2 | 1327.6 | 1341.9 | 1356.3 |
| 20°   | 1331.8 | 1331.8 | 1330.1 | 1329.3 | 1327.6 | 1324.2 | 1323.4 | 1322.5 | 1331.8 | 1342.8 | 1355.4 |
| 22.5° | 1368.1 | 1368.1 | 1367.3 | 1370.6 | 1369.8 | 1369.8 | 1367.3 | 1363.0 | 1358.8 | 1357.1 | 1365.6 |
| 25°   | 1390.9 | 1394.3 | 1396.0 | 1401.0 | 1404.4 | 1409.5 | 1411.2 | 1410.3 | 1404.4 | 1394.3 | 1391.7 |
| 27.5° | 1428.0 | 1430.6 | 1432.3 | 1438.2 | 1444.9 | 1450.8 | 1456.7 | 1464.3 | 1464.3 | 1455.0 | 1442.4 |
| 30°   | 1499.8 | 1496.4 | 1498.1 | 1499.8 | 1505.7 | 1514.1 | 1521.7 | 1531.8 | 1536.9 | 1533.5 | 1516.7 |
| 32.5° | 1566.4 | 1569.8 | 1571.5 | 1576.6 | 1582.5 | 1595.1 | 1604.4 | 1616.2 | 1627.2 | 1628.9 | 1620.5 |
| 35°   | 1664.4 | 1662.7 | 1660.1 | 1677.9 | 1684.6 | 1699.0 | 1709.9 | 1726.8 | 1735.2 | 1742.8 | 1737.8 |
| 37.5° | 1818.8 | 1813.7 | 1810.4 | 1815.4 | 1824.7 | 1834.0 | 1850.0 | 1862.7 | 1877.0 | 1894.8 | 1888.9 |
| 40°   | 2037.4 | 2047.5 | 2033.2 | 2039.9 | 2047.5 | 2026.4 | 2040.8 | 2052.6 | 2077.1 | 2077.9 | 2077.1 |
| 42.5° | 2321.8 | 2329.4 | 2326.0 | 2330.3 | 2316.8 | 2310.0 | 2304.1 | 2310.0 | 2340.4 | 2336.2 | 2315.9 |
| 45°   | 2606.2 | 2617.2 | 2614.7 | 2616.4 | 2642.5 | 2631.6 | 2640.8 | 2642.5 | 2673.8 | 2665.3 | 2650.1 |
| 47.5° | 2849.3 | 2867.9 | 2872.1 | 2887.3 | 2922.7 | 2951.4 | 2991.1 | 3020.6 | 3035.8 | 3046.0 | 3057.8 |
| 50°   | 3041.7 | 3055.2 | 3078.9 | 3116.9 | 3168.3 | 3218.1 | 3307.6 | 3365.8 | 3419.0 | 3456.1 | 3494.1 |
| 52.5° | 3169.2 | 3184.4 | 3220.7 | 3278.1 | 3352.3 | 3443.5 | 3548.1 | 3669.7 | 3781.9 | 3847.8 | 3904.3 |
| 55°   | 3221.5 | 3236.7 | 3281.4 | 3356.6 | 3455.3 | 3571.8 | 3722.0 | 3893.3 | 4042.7 | 4193.8 | 4280.7 |
| 57.5° | 3191.1 | 3208.0 | 3259.5 | 3343.9 | 3462.9 | 3615.7 | 3802.2 | 4012.3 | 4230.9 | 4459.6 | 4634.4 |
| 60°   | 3101.7 | 3116.9 | 3175.1 | 3262.9 | 3398.8 | 3570.9 | 3794.6 | 4057.9 | 4365.1 | 4704.4 | 5036.1 |
| 62.5° | 2978.4 | 3001.2 | 3052.7 | 3142.2 | 3277.2 | 3465.4 | 3720.3 | 4063.0 | 4503.5 | 5050.4 | 5696.1 |
| 65°   | 2821.5 | 2838.3 | 2883.9 | 2954.8 | 3103.4 | 3300.0 | 3569.2 | 3988.7 | 4564.3 | 5339.9 | 6261.6 |
| 66°   | 2740.4 | 2756.5 | 2798.7 | 2865.3 | 3001.2 | 3190.3 | 3459.5 | 3889.1 | 4496.8 | 5338.2 | 6321.5 |
| 67.5° | 2597.8 | 2605.4 | 2635.8 | 2701.6 | 2790.2 | 2959.9 | 3209.7 | 3612.3 | 4210.7 | 5112.9 | 6154.4 |
| 70°   | 2179.2 | 2190.2 | 2219.7 | 2253.5 | 2286.4 | 2347.1 | 2521.8 | 2787.7 | 3266.2 | 4131.3 | 5124.7 |
| 72.5° | 1507.4 | 1524.2 | 1556.3 | 1618.8 | 1670.3 | 1747.1 | 1815.4 | 1904.0 | 2062.7 | 2663.6 | 3666.3 |
| 75°   | 1089.6 | 1095.5 | 1142.8 | 1252.5 | 1356.3 | 1509.9 | 1645.8 | 1688.8 | 1634.8 | 1625.5 | 2153.9 |
| 77.5° | 649.9  | 658.3  | 726.7  | 837.2  | 945.3  | 1153.7 | 1432.3 | 1647.5 | 1766.5 | 1724.3 | 1630.6 |
| 80°   | 273.5  | 285.3  | 325.8  | 354.5  | 443.9  | 618.6  | 893.8  | 1231.4 | 1545.3 | 1738.6 | 1694.7 |
| 82.5° | 87.8   | 102.1  | 120.7  | 146.0  | 172.2  | 230.4  | 357.0  | 534.2  | 844.0  | 1258.4 | 1547.0 |
| 85°   | 32.1   | 32.9   | 45.6   | 63.3   | 70.1   | 81.0   | 103.8  | 160.4  | 285.3  | 471.8  | 877.8  |
| 87.5° | 12.7   | 15.2   | 17.7   | 24.5   | 25.3   | 26.2   | 29.5   | 38.0   | 37.1   | 32.1   | 166.3  |
| 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: P146618

CATALOG NUMBER: LDRL-T3-E05-E-8030

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 |
| 2.5°  | 1354.6 | 1356.3 | 1355.4 | 1356.3 | 1356.3 | 1354.6 | 1354.6 | 1358.0 | 1355.4 | 1357.1 | 1357.1 |
| 5°    | 1353.8 | 1355.4 | 1354.6 | 1356.3 | 1356.3 | 1355.4 | 1355.4 | 1360.5 | 1359.7 | 1362.2 | 1363.9 |
| 7.5°  | 1357.1 | 1358.0 | 1357.1 | 1357.1 | 1359.7 | 1358.8 | 1359.7 | 1361.4 | 1365.6 | 1369.8 | 1373.2 |
| 10°   | 1361.4 | 1363.0 | 1365.6 | 1366.4 | 1369.8 | 1369.0 | 1371.5 | 1374.0 | 1378.2 | 1382.5 | 1386.7 |
| 12.5° | 1367.3 | 1372.3 | 1379.9 | 1381.6 | 1385.0 | 1387.5 | 1391.7 | 1394.3 | 1397.6 | 1404.4 | 1409.5 |
| 15°   | 1372.3 | 1381.6 | 1390.9 | 1394.3 | 1397.6 | 1401.0 | 1405.2 | 1407.8 | 1413.7 | 1419.6 | 1425.5 |
| 17.5° | 1374.0 | 1385.0 | 1396.8 | 1401.0 | 1404.4 | 1410.3 | 1415.4 | 1420.4 | 1427.2 | 1434.8 | 1441.5 |
| 20°   | 1374.9 | 1390.1 | 1405.2 | 1410.3 | 1417.9 | 1426.3 | 1434.8 | 1439.0 | 1448.3 | 1457.6 | 1463.5 |
| 22.5° | 1382.5 | 1401.0 | 1422.1 | 1431.4 | 1439.0 | 1454.2 | 1465.2 | 1471.9 | 1482.9 | 1490.5 | 1493.0 |
| 25°   | 1403.6 | 1423.0 | 1448.3 | 1462.6 | 1475.3 | 1497.2 | 1510.7 | 1523.4 | 1529.3 | 1539.4 | 1536.9 |
| 27.5° | 1441.5 | 1456.7 | 1489.6 | 1509.1 | 1525.1 | 1553.8 | 1580.0 | 1591.8 | 1601.1 | 1606.1 | 1600.2 |
| 30°   | 1506.5 | 1512.4 | 1548.7 | 1572.4 | 1599.4 | 1644.1 | 1672.8 | 1688.0 | 1699.8 | 1700.6 | 1685.4 |
| 32.5° | 1603.6 | 1594.3 | 1626.4 | 1660.1 | 1695.6 | 1749.6 | 1788.4 | 1804.5 | 1813.7 | 1814.6 | 1780.8 |
| 35°   | 1735.2 | 1719.2 | 1746.2 | 1779.1 | 1823.0 | 1893.9 | 1942.9 | 1961.4 | 1975.8 | 1969.0 | 1919.2 |
| 37.5° | 1901.5 | 1900.7 | 1913.3 | 1955.5 | 2005.3 | 2096.5 | 2148.0 | 2158.1 | 2157.2 | 2137.0 | 2061.9 |
| 40°   | 2086.3 | 2071.2 | 2072.8 | 2103.2 | 2160.6 | 2280.5 | 2352.2 | 2369.1 | 2363.2 | 2333.6 | 2235.7 |
| 42.5° | 2319.3 | 2312.5 | 2289.7 | 2305.8 | 2359.0 | 2505.0 | 2591.9 | 2608.8 | 2613.8 | 2564.9 | 2449.3 |
| 45°   | 2645.9 | 2640.0 | 2589.4 | 2592.7 | 2631.6 | 2785.2 | 2875.5 | 2903.3 | 2904.2 | 2857.8 | 2707.5 |
| 47.5° | 3041.7 | 3036.7 | 2977.6 | 2960.7 | 2980.1 | 3116.9 | 3229.1 | 3235.0 | 3236.7 | 3172.6 | 3016.4 |
| 50°   | 3490.7 | 3476.4 | 3431.7 | 3413.9 | 3391.2 | 3542.2 | 3632.5 | 3631.7 | 3622.4 | 3551.5 | 3376.0 |
| 52.5° | 3924.6 | 3956.6 | 3939.7 | 3905.1 | 3906.0 | 4014.9 | 4100.1 | 4052.8 | 4058.8 | 3991.2 | 3789.5 |
| 55°   | 4387.9 | 4469.8 | 4531.4 | 4544.0 | 4538.1 | 4593.8 | 4641.1 | 4556.7 | 4525.5 | 4514.5 | 4300.1 |
| 57.5° | 4880.0 | 5089.3 | 5279.2 | 5358.5 | 5328.1 | 5430.2 | 5472.4 | 5384.7 | 5386.4 | 5472.4 | 5287.6 |
| 60°   | 5537.4 | 6065.8 | 6544.3 | 6692.8 | 6762.1 | 6930.9 | 6855.7 | 6850.7 | 6983.2 | 7094.6 | 6751.9 |
| 62.5° | 6535.0 | 7410.2 | 8174.1 | 8284.6 | 8340.3 | 8378.3 | 8344.5 | 8252.5 | 8389.3 | 8402.8 | 7874.4 |
| 65°   | 7291.2 | 8318.4 | 9056.9 | 9195.3 | 9185.2 | 8991.9 | 8804.5 | 8620.5 | 8618.8 | 8483.8 | 7803.5 |
| 66°   | 7373.1 | 8404.5 | 9124.4 | 9246.8 | 9202.0 | 8904.1 | 8666.1 | 8427.2 | 8350.4 | 8147.9 | 7457.5 |
| 67.5° | 7194.2 | 8254.2 | 8969.1 | 9078.8 | 8983.4 | 8530.2 | 8206.1 | 7882.9 | 7767.2 | 7485.4 | 6781.5 |
| 70°   | 6150.2 | 7242.3 | 8198.5 | 8357.2 | 8244.1 | 7642.3 | 7162.1 | 6806.8 | 6492.0 | 6214.3 | 5633.6 |
| 72.5° | 4768.5 | 5585.5 | 6597.5 | 6762.9 | 6772.2 | 6301.2 | 5760.2 | 5419.3 | 5053.0 | 4774.5 | 4339.0 |
| 75°   | 3127.8 | 3745.6 | 4301.8 | 4246.1 | 4262.2 | 3891.6 | 3569.2 | 3285.7 | 2954.0 | 2734.5 | 2526.9 |
| 77.5° | 1828.1 | 2049.2 | 1998.6 | 1860.2 | 1743.7 | 1370.6 | 980.7  | 673.5  | 587.4  | 612.7  | 691.2  |
| 80°   | 1589.2 | 1465.2 | 1147.0 | 1008.6 | 917.4  | 622.9  | 335.1  | 236.3  | 207.6  | 210.2  | 222.8  |
| 82.5° | 1710.8 | 1774.9 | 1456.7 | 1199.3 | 1045.7 | 733.4  | 394.1  | 196.6  | 141.8  | 165.4  | 182.3  |
| 85°   | 1327.6 | 1689.7 | 1558.0 | 1316.6 | 1107.3 | 779.8  | 402.6  | 124.9  | 84.4   | 113.1  | 142.6  |
| 87.5° | 378.1  | 598.4  | 478.5  | 422.8  | 341.0  | 232.9  | 96.2   | 49.8   | 45.6   | 59.1   | 81.9   |
| 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: P146618

CATALOG NUMBER: LDRL-T3-E05-E-8030

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 | 1356.3 |
| 2.5°  | 1358.0 | 1358.0 | 1360.5 | 1361.4 | 1362.2 | 1362.2 | 1363.9 | 1363.9 | 1364.7 | 1368.1 | 1367.3 |
| 5°    | 1366.4 | 1369.0 | 1372.3 | 1374.0 | 1376.5 | 1377.4 | 1379.9 | 1379.9 | 1382.5 | 1385.0 | 1384.1 |
| 7.5°  | 1376.5 | 1379.1 | 1381.6 | 1384.1 | 1386.7 | 1390.1 | 1389.2 | 1388.4 | 1387.5 | 1385.8 | 1384.1 |
| 10°   | 1390.9 | 1393.4 | 1396.0 | 1395.1 | 1393.4 | 1391.7 | 1385.0 | 1377.4 | 1374.0 | 1367.3 | 1362.2 |
| 12.5° | 1414.5 | 1417.1 | 1414.5 | 1407.8 | 1398.5 | 1387.5 | 1373.2 | 1360.5 | 1352.9 | 1342.8 | 1336.9 |
| 15°   | 1432.3 | 1434.8 | 1429.7 | 1417.9 | 1402.7 | 1388.4 | 1369.0 | 1352.9 | 1339.4 | 1328.4 | 1320.0 |
| 17.5° | 1445.8 | 1444.1 | 1433.1 | 1419.6 | 1403.6 | 1391.7 | 1374.0 | 1356.3 | 1340.3 | 1325.1 | 1313.2 |
| 20°   | 1465.2 | 1455.9 | 1439.8 | 1423.0 | 1406.9 | 1396.8 | 1382.5 | 1366.4 | 1349.5 | 1327.6 | 1312.4 |
| 22.5° | 1490.5 | 1473.6 | 1452.5 | 1435.6 | 1420.4 | 1410.3 | 1396.0 | 1380.8 | 1364.7 | 1339.4 | 1318.3 |
| 25°   | 1526.8 | 1499.8 | 1475.3 | 1457.6 | 1444.1 | 1433.9 | 1416.2 | 1400.2 | 1382.5 | 1357.1 | 1330.1 |
| 27.5° | 1577.4 | 1538.6 | 1513.3 | 1495.6 | 1482.0 | 1470.2 | 1447.4 | 1428.0 | 1405.2 | 1379.9 | 1347.9 |
| 30°   | 1643.3 | 1596.0 | 1568.1 | 1552.9 | 1538.6 | 1521.7 | 1497.2 | 1468.5 | 1439.0 | 1405.2 | 1370.6 |
| 32.5° | 1725.1 | 1671.9 | 1645.8 | 1630.6 | 1612.0 | 1589.2 | 1557.2 | 1519.2 | 1475.3 | 1430.6 | 1387.5 |
| 35°   | 1841.6 | 1780.8 | 1752.1 | 1726.0 | 1699.0 | 1665.2 | 1617.1 | 1562.2 | 1504.0 | 1445.8 | 1392.6 |
| 37.5° | 1957.2 | 1900.7 | 1865.2 | 1838.2 | 1796.0 | 1741.2 | 1674.5 | 1598.5 | 1520.9 | 1446.6 | 1382.5 |
| 40°   | 2120.9 | 2055.1 | 2013.8 | 1965.7 | 1897.3 | 1812.0 | 1715.0 | 1612.9 | 1516.7 | 1427.2 | 1351.2 |
| 42.5° | 2321.8 | 2246.7 | 2185.1 | 2098.2 | 1991.8 | 1868.6 | 1734.4 | 1604.4 | 1487.1 | 1384.1 | 1300.6 |
| 45°   | 2575.9 | 2478.0 | 2375.0 | 2238.3 | 2075.4 | 1903.2 | 1733.6 | 1574.9 | 1436.5 | 1320.0 | 1237.3 |
| 47.5° | 2872.1 | 2734.5 | 2561.5 | 2353.0 | 2130.2 | 1911.6 | 1706.5 | 1521.7 | 1360.5 | 1232.2 | 1136.9 |
| 50°   | 3176.8 | 2977.6 | 2732.0 | 2441.7 | 2158.1 | 1890.5 | 1646.6 | 1434.8 | 1260.9 | 1114.9 | 1011.9 |
| 52.5° | 3552.4 | 3243.5 | 2886.4 | 2501.6 | 2146.3 | 1828.1 | 1547.0 | 1312.4 | 1126.7 | 984.1  | 865.9  |
| 55°   | 3999.7 | 3549.0 | 3033.3 | 2534.5 | 2093.9 | 1715.8 | 1396.0 | 1152.0 | 957.1  | 827.1  | 720.8  |
| 57.5° | 4739.9 | 4027.5 | 3284.0 | 2583.5 | 1991.0 | 1548.7 | 1212.0 | 959.6  | 776.5  | 665.9  | 580.7  |
| 60°   | 6016.0 | 5009.1 | 3814.0 | 2704.1 | 1848.3 | 1310.7 | 978.2  | 752.0  | 600.9  | 512.3  | 452.4  |
| 62.5° | 6906.4 | 5604.1 | 4099.3 | 2662.8 | 1606.1 | 1032.2 | 723.3  | 537.6  | 438.0  | 379.8  | 339.3  |
| 65°   | 6733.4 | 5369.5 | 3755.8 | 2261.9 | 1258.4 | 730.1  | 481.1  | 363.8  | 307.2  | 270.9  | 250.7  |
| 66°   | 6422.8 | 5110.4 | 3494.1 | 2030.6 | 1091.3 | 608.5  | 396.7  | 301.3  | 264.2  | 238.0  | 224.5  |
| 67.5° | 5856.5 | 4573.6 | 3024.0 | 1629.7 | 817.0  | 449.0  | 301.3  | 234.6  | 214.4  | 200.9  | 191.6  |
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| 72.5° | 3717.8 | 2594.4 | 1204.4 | 465.9  | 231.3  | 167.1  | 146.9  | 140.1  | 136.7  | 135.0  | 135.0  |
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| 77.5° | 807.7  | 509.8  | 241.4  | 171.3  | 140.1  | 123.2  | 115.6  | 113.9  | 115.6  | 115.6  | 115.6  |
| 80°   | 222.8  | 196.6  | 174.7  | 151.9  | 126.6  | 113.9  | 107.2  | 106.3  | 109.7  | 110.6  | 107.2  |
| 82.5° | 173.9  | 163.7  | 149.4  | 135.9  | 115.6  | 103.8  | 100.4  | 102.1  | 103.8  | 101.3  | 96.2   |
| 85°   | 148.5  | 141.8  | 104.7  | 104.7  | 93.7   | 90.3   | 89.5   | 91.2   | 90.3   | 83.6   | 76.8   |
| 87.5° | 84.4   | 74.3   | 56.5   | 61.6   | 65.8   | 67.5   | 56.5   | 60.8   | 59.9   | 53.2   | 49.8   |
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