

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: P145176

Luminaire Tested: **LDRL-SL3-F06-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145176  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-SL3-F06-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15088.3 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

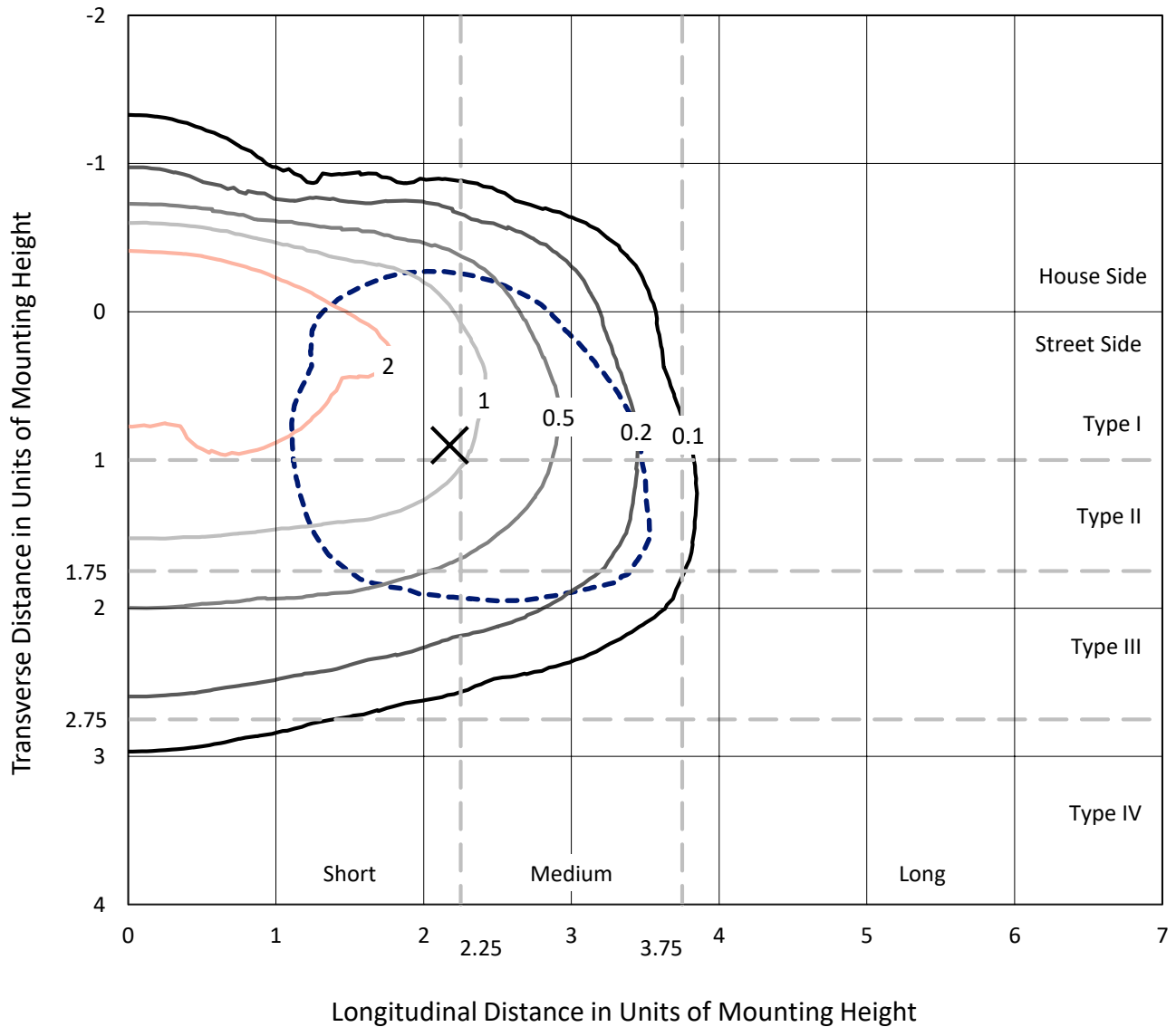
Input Watts (W): 156.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P145176  
 CATALOG NUMBER: LDRL-SL3-F06-E-7050

### Iso-Footcandle Lines of Horizontal Illumination

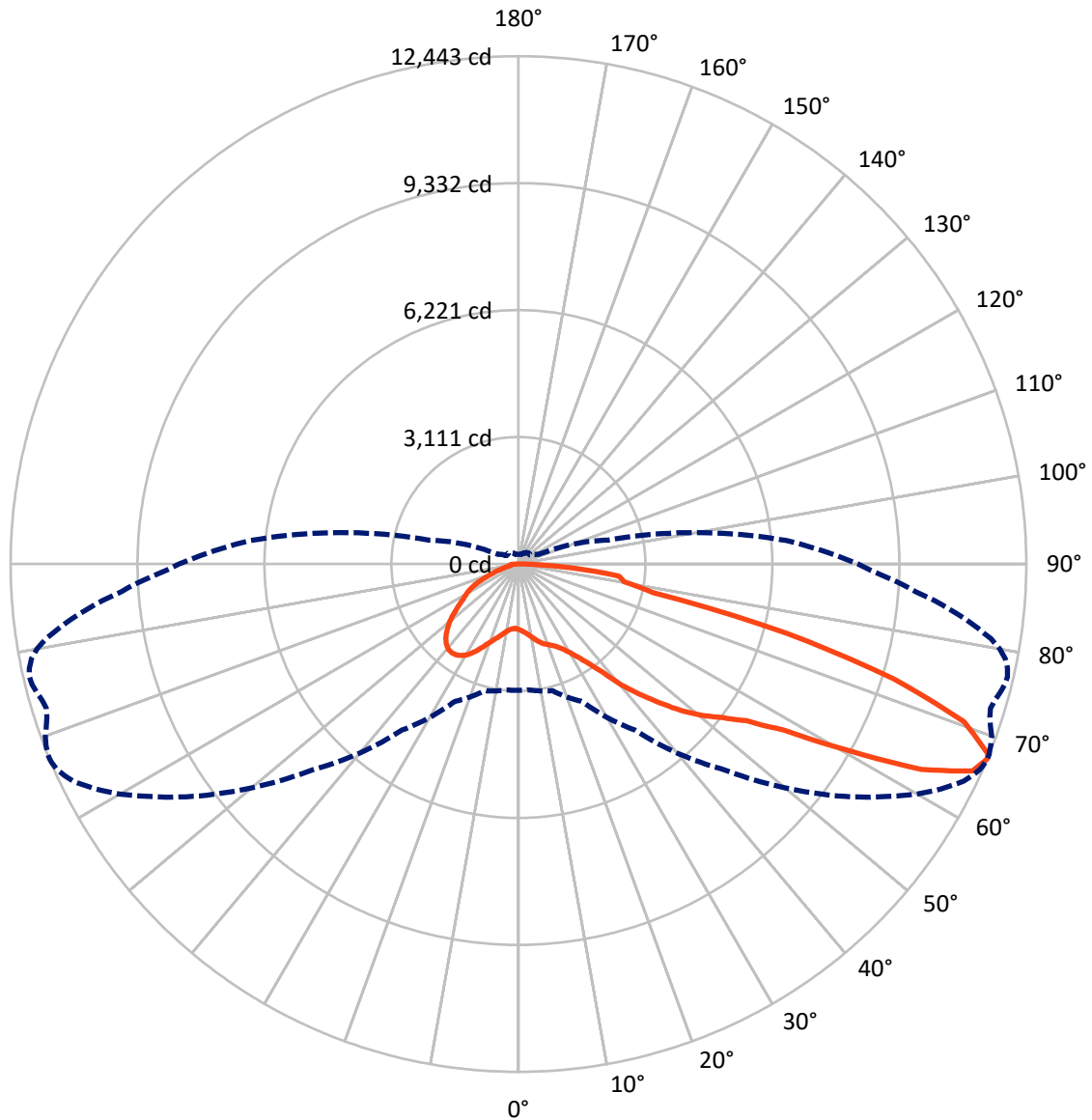
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P145176  
CATALOG NUMBER: LDRL-SL3-F06-E-7050

### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P145176

CATALOG NUMBER: LDRL-SL3-F06-E-7050

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3572.8   | 0.0    | 3572.8  |
|                    | % Fixture | 23.7     | 0.0    | 23.7    |
| <b>Street Side</b> | Lumens    | 11515.4  | 0.0    | 11515.4 |
|                    | % Fixture | 76.3     | 0.0    | 76.3    |
| <b>Total</b>       | Lumens    | 15088.3  | 0.0    | 15088.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 160.2   | 1.1       |
| 10°-20°   | 548.6   | 3.6       |
| 20°-30°   | 976.5   | 6.5       |
| 30°-40°   | 1422.5  | 9.4       |
| 40°-50°   | 2191.8  | 14.5      |
| 50°-60°   | 3209.9  | 21.3      |
| 60°-70°   | 4262.4  | 28.3      |
| 70°-80°   | 2009.2  | 13.3      |
| 80°-90°   | 307.2   | 2.0       |
| 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°    | 15088.3 | 100.0     |
| 0°-180°   | 15088.3 | 100.0     |



REPORT NUMBER: P145176

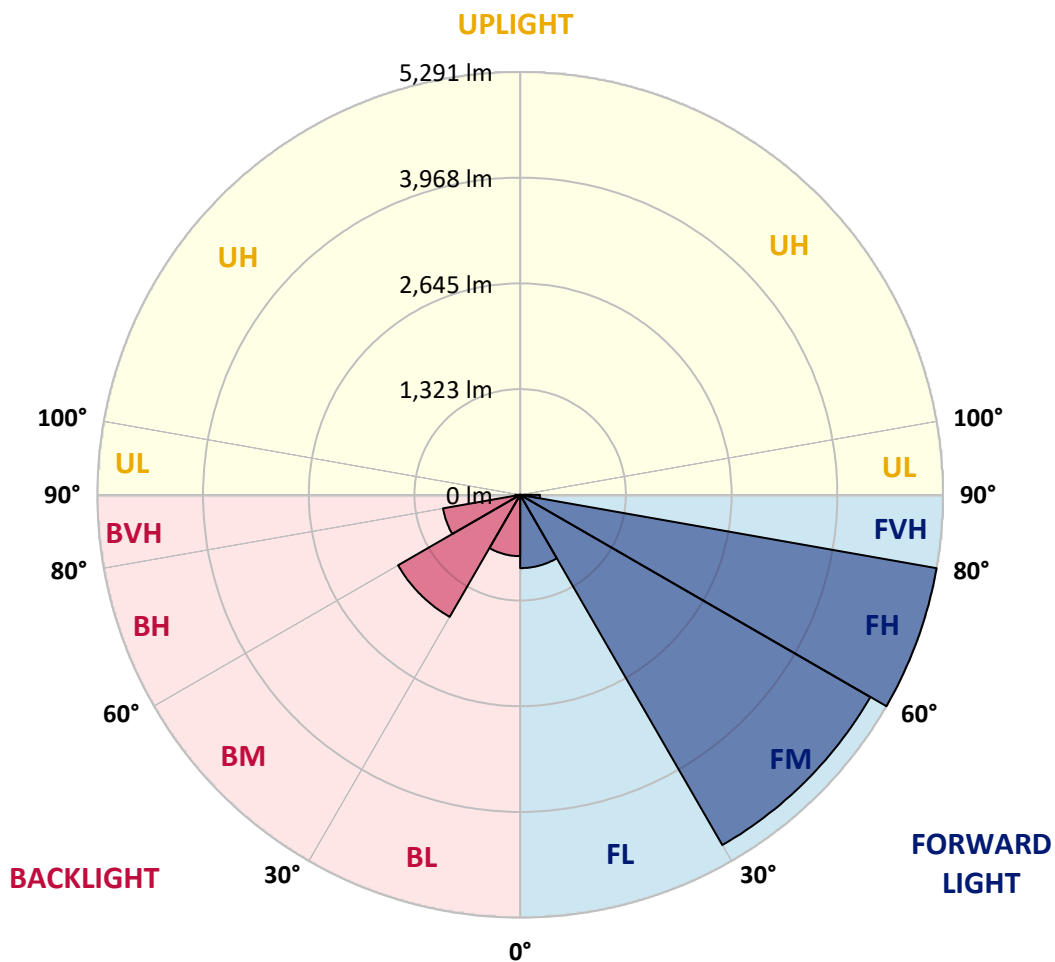
CATALOG NUMBER: LDRL-SL3-F06-E-7050

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 917.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 5059.9 | 33.5      |                         |      |         |
| FH (60°-80°)   | 5290.8 | 35.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 247.5  | 1.6       |                         |      | G3/500  |
| BL (0°-30°)    | 768.1  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1764.3 | 11.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 980.9  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 59.6   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P145176  
 CATALOG NUMBER: LDRL-SL3-F06-E-7050

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°     | 61°     | 62°     | 64°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0  | 1605.0  | 1605.0  | 1605.0  |
| 2.5°  | 1685.3 | 1678.2 | 1679.2 | 1682.3 | 1672.1 | 1667.0 | 1655.9 | 1648.7  | 1647.7  | 1646.7  | 1642.6  |
| 5°    | 1783.9 | 1776.8 | 1779.9 | 1771.7 | 1752.4 | 1739.2 | 1715.8 | 1703.6  | 1701.6  | 1699.6  | 1694.5  |
| 7.5°  | 1886.6 | 1877.5 | 1867.3 | 1858.1 | 1836.8 | 1815.5 | 1785.0 | 1766.7  | 1764.6  | 1761.6  | 1758.5  |
| 10°   | 2008.6 | 1995.4 | 1987.2 | 1958.8 | 1922.2 | 1892.7 | 1862.2 | 1842.9  | 1841.9  | 1838.8  | 1832.7  |
| 12.5° | 2145.8 | 2131.6 | 2116.3 | 2078.7 | 2021.8 | 1978.1 | 1942.5 | 1931.3  | 1922.2  | 1923.2  | 1917.1  |
| 15°   | 2282.0 | 2266.8 | 2246.4 | 2198.7 | 2123.4 | 2058.4 | 2012.7 | 1996.4  | 1997.4  | 1992.3  | 1995.4  |
| 17.5° | 2396.9 | 2383.7 | 2354.2 | 2293.2 | 2205.8 | 2116.3 | 2058.4 | 2051.3  | 2053.3  | 2052.3  | 2055.3  |
| 20°   | 2472.1 | 2464.0 | 2419.2 | 2346.1 | 2247.5 | 2148.9 | 2089.9 | 2089.9  | 2090.9  | 2095.0  | 2102.1  |
| 22.5° | 2517.8 | 2505.6 | 2446.7 | 2344.0 | 2246.4 | 2164.1 | 2118.4 | 2128.5  | 2134.6  | 2137.7  | 2148.9  |
| 25°   | 2543.3 | 2528.0 | 2447.7 | 2311.5 | 2211.9 | 2175.3 | 2161.1 | 2186.5  | 2196.6  | 2201.7  | 2220.0  |
| 27.5° | 2543.3 | 2525.0 | 2434.5 | 2270.8 | 2172.2 | 2208.8 | 2242.4 | 2286.1  | 2293.2  | 2308.5  | 2329.8  |
| 30°   | 2514.8 | 2500.6 | 2414.2 | 2240.3 | 2162.1 | 2271.9 | 2373.5 | 2423.3  | 2440.6  | 2457.9  | 2485.3  |
| 32.5° | 2484.3 | 2472.1 | 2404.0 | 2256.6 | 2219.0 | 2404.0 | 2573.8 | 2641.9  | 2652.0  | 2666.3  | 2694.7  |
| 35°   | 2482.3 | 2478.2 | 2448.7 | 2360.3 | 2390.8 | 2645.9 | 2875.7 | 2922.4  | 2950.9  | 2958.0  | 2970.2  |
| 37.5° | 2503.6 | 2511.7 | 2537.2 | 2528.0 | 2637.8 | 3005.8 | 3271.1 | 3364.6  | 3386.9  | 3374.7  | 3385.9  |
| 40°   | 2553.4 | 2573.8 | 2668.3 | 2785.2 | 3014.9 | 3440.8 | 3809.8 | 3917.6  | 3942.0  | 3934.8  | 3931.8  |
| 42.5° | 2711.0 | 2738.4 | 2877.7 | 3127.7 | 3407.3 | 3891.1 | 4309.9 | 4425.8  | 4433.9  | 4438.0  | 4411.6  |
| 45°   | 2958.0 | 2973.2 | 3158.2 | 3477.4 | 3832.2 | 4376.0 | 4809.0 | 4938.1  | 4933.0  | 4912.7  | 4893.4  |
| 47.5° | 3238.5 | 3270.1 | 3491.6 | 3877.9 | 4271.3 | 4824.3 | 5314.2 | 5440.3  | 5451.4  | 5433.1  | 5397.6  |
| 50°   | 3493.7 | 3518.1 | 3768.1 | 4226.6 | 4658.6 | 5197.3 | 5740.1 | 5867.2  | 5865.2  | 5875.3  | 5885.5  |
| 52.5° | 3694.9 | 3717.3 | 3955.2 | 4459.3 | 4943.2 | 5510.4 | 6061.3 | 6217.9  | 6242.3  | 6258.5  | 6278.9  |
| 55°   | 3798.6 | 3822.0 | 4041.6 | 4555.9 | 5116.0 | 5816.4 | 6432.4 | 6657.0  | 6698.7  | 6735.3  | 6768.8  |
| 57.5° | 3800.7 | 3831.2 | 4032.4 | 4548.8 | 5205.4 | 6089.8 | 6923.3 | 7326.9  | 7385.8  | 7479.3  | 7594.2  |
| 60°   | 3738.7 | 3781.3 | 3962.3 | 4482.7 | 5308.1 | 6436.4 | 7732.4 | 8505.0  | 8620.9  | 8784.5  | 8931.9  |
| 62.5° | 3577.0 | 3619.7 | 3781.3 | 4315.0 | 5428.1 | 6880.6 | 8901.4 | 10033.8 | 10280.8 | 10461.7 | 10753.5 |
| 65°   | 3321.9 | 3362.6 | 3498.8 | 4037.5 | 5332.5 | 7231.3 | 9772.5 | 11130.6 | 11382.7 | 11609.3 | 11951.9 |
| 67°   | 3094.2 | 3098.3 | 3213.1 | 3719.3 | 4960.5 | 7122.6 | 9947.4 | 11276.9 | 11509.7 | 11739.5 | 12136.9 |
| 67.5° | 3013.9 | 3036.3 | 3125.7 | 3613.6 | 4819.2 | 7042.2 | 9878.3 | 11197.7 | 11423.3 | 11668.3 | 12073.9 |
| 70°   | 2436.5 | 2442.6 | 2529.0 | 2882.8 | 3824.0 | 5838.7 | 8872.9 | 10186.3 | 10340.8 | 10699.6 | 11098.0 |
| 72.5° | 1486.1 | 1475.9 | 1503.4 | 1765.6 | 2516.8 | 4043.6 | 7104.3 | 8386.0  | 8597.5  | 8903.4  | 9172.8  |
| 75°   | 818.3  | 867.1  | 900.6  | 1082.6 | 1413.9 | 2377.6 | 4837.5 | 6067.4  | 6377.5  | 6559.4  | 6613.3  |
| 77.5° | 500.1  | 496.0  | 511.3  | 698.3  | 1159.8 | 1626.4 | 2672.4 | 3559.8  | 3732.6  | 3784.4  | 3584.1  |
| 80°   | 237.9  | 247.0  | 244.0  | 287.7  | 562.1  | 1372.3 | 1868.3 | 2286.1  | 2373.5  | 2423.3  | 2488.4  |
| 82.5° | 130.1  | 135.2  | 153.5  | 171.8  | 221.6  | 590.6  | 1612.2 | 2108.2  | 2167.2  | 2252.5  | 2348.1  |
| 85°   | 81.3   | 85.4   | 117.9  | 124.0  | 136.2  | 182.0  | 671.9  | 1232.0  | 1281.8  | 1451.5  | 1505.4  |
| 87.5° | 33.5   | 36.6   | 64.0   | 57.9   | 69.1   | 64.0   | 203.3  | 313.1   | 332.4   | 353.7   | 392.4   |
| 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: P145176  
 CATALOG NUMBER: LDRL-SL3-F06-E-7050

**CANDELA DISTRIBUTION (continued):**

|       | 65°     | 66°     | 67°     | 67.5°   | 68°     | 69°     | 70°     | 71°     | 72°     | 73°     | 74°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  |
| 2.5°  | 1643.7  | 1642.6  | 1638.6  | 1637.6  | 1639.6  | 1639.6  | 1637.6  | 1634.5  | 1633.5  | 1632.5  | 1630.5  |
| 5°    | 1692.5  | 1690.4  | 1687.4  | 1685.3  | 1684.3  | 1684.3  | 1681.3  | 1678.2  | 1675.2  | 1671.1  | 1670.1  |
| 7.5°  | 1750.4  | 1750.4  | 1749.4  | 1746.3  | 1743.3  | 1739.2  | 1736.2  | 1733.1  | 1730.1  | 1728.0  | 1725.0  |
| 10°   | 1826.6  | 1830.7  | 1823.6  | 1821.6  | 1820.5  | 1814.4  | 1813.4  | 1810.4  | 1808.3  | 1803.3  | 1803.3  |
| 12.5° | 1917.1  | 1913.0  | 1912.0  | 1908.0  | 1908.0  | 1904.9  | 1903.9  | 1902.9  | 1900.8  | 1896.8  | 1895.8  |
| 15°   | 1992.3  | 1992.3  | 1991.3  | 1989.3  | 1991.3  | 1989.3  | 1986.2  | 1988.3  | 1985.2  | 1986.2  | 1983.2  |
| 17.5° | 2053.3  | 2057.4  | 2056.4  | 2057.4  | 2056.4  | 2056.4  | 2058.4  | 2058.4  | 2060.4  | 2056.4  | 2057.4  |
| 20°   | 2104.1  | 2110.2  | 2113.3  | 2111.3  | 2113.3  | 2114.3  | 2119.4  | 2121.4  | 2124.5  | 2126.5  | 2126.5  |
| 22.5° | 2157.0  | 2165.1  | 2171.2  | 2171.2  | 2175.3  | 2179.4  | 2188.5  | 2190.5  | 2197.7  | 2196.6  | 2201.7  |
| 25°   | 2231.2  | 2244.4  | 2248.5  | 2254.6  | 2259.7  | 2266.8  | 2278.0  | 2283.0  | 2286.1  | 2293.2  | 2301.3  |
| 27.5° | 2345.0  | 2361.3  | 2364.4  | 2371.5  | 2384.7  | 2388.8  | 2401.0  | 2406.0  | 2417.2  | 2432.5  | 2435.5  |
| 30°   | 2500.6  | 2520.9  | 2521.9  | 2530.0  | 2545.3  | 2550.4  | 2560.5  | 2573.8  | 2582.9  | 2598.2  | 2599.2  |
| 32.5° | 2712.0  | 2732.3  | 2729.3  | 2744.5  | 2743.5  | 2758.8  | 2755.7  | 2776.0  | 2784.2  | 2792.3  | 2814.7  |
| 35°   | 2993.6  | 2991.5  | 3006.8  | 3011.9  | 3008.8  | 3021.0  | 3019.0  | 3028.1  | 3036.3  | 3036.3  | 3060.7  |
| 37.5° | 3399.1  | 3396.1  | 3394.1  | 3372.7  | 3367.6  | 3368.7  | 3364.6  | 3372.7  | 3359.5  | 3359.5  | 3385.9  |
| 40°   | 3943.0  | 3924.7  | 3910.4  | 3896.2  | 3882.0  | 3862.7  | 3846.4  | 3842.3  | 3820.0  | 3819.0  | 3808.8  |
| 42.5° | 4415.6  | 4398.4  | 4388.2  | 4360.7  | 4346.5  | 4343.5  | 4303.8  | 4292.6  | 4286.5  | 4290.6  | 4280.4  |
| 45°   | 4911.7  | 4893.4  | 4854.8  | 4842.6  | 4838.5  | 4817.1  | 4811.1  | 4783.6  | 4775.5  | 4789.7  | 4784.6  |
| 47.5° | 5423.0  | 5396.5  | 5375.2  | 5361.0  | 5355.9  | 5337.6  | 5311.2  | 5333.5  | 5322.3  | 5314.2  | 5299.0  |
| 50°   | 5882.4  | 5853.0  | 5853.0  | 5827.5  | 5831.6  | 5819.4  | 5792.0  | 5798.1  | 5766.6  | 5778.7  | 5770.6  |
| 52.5° | 6267.7  | 6269.7  | 6279.9  | 6251.4  | 6256.5  | 6256.5  | 6247.4  | 6217.9  | 6226.0  | 6221.9  | 6241.3  |
| 55°   | 6757.6  | 6791.2  | 6772.9  | 6778.0  | 6784.1  | 6812.5  | 6832.9  | 6815.6  | 6787.1  | 6809.5  | 6871.5  |
| 57.5° | 7614.5  | 7645.0  | 7663.3  | 7677.6  | 7700.9  | 7714.1  | 7823.9  | 7839.2  | 7806.6  | 7873.7  | 8012.0  |
| 60°   | 9104.7  | 9141.3  | 9196.2  | 9268.4  | 9283.6  | 9376.1  | 9433.0  | 9500.1  | 9524.5  | 9582.5  | 9730.9  |
| 62.5° | 10896.8 | 10979.1 | 10989.3 | 11080.8 | 11151.9 | 11065.5 | 11087.9 | 11170.2 | 11076.7 | 11204.8 | 11210.9 |
| 65°   | 12069.8 | 12189.8 | 12193.8 | 12227.4 | 12253.8 | 12172.5 | 12135.9 | 12099.3 | 12010.9 | 12005.8 | 12094.2 |
| 67°   | 12271.1 | 12380.9 | 12426.6 | 12442.9 | 12438.8 | 12397.1 | 12337.1 | 12231.4 | 12146.0 | 12097.3 | 12133.8 |
| 67.5° | 12214.2 | 12321.9 | 12385.9 | 12401.2 | 12402.2 | 12361.5 | 12306.7 | 12191.8 | 12111.5 | 12056.6 | 12095.2 |
| 70°   | 11279.0 | 11531.1 | 11640.9 | 11583.9 | 11616.5 | 11616.5 | 11614.4 | 11508.7 | 11469.1 | 11416.2 | 11395.9 |
| 72.5° | 9378.1  | 9553.0  | 9692.2  | 9618.0  | 9627.2  | 9696.3  | 9680.0  | 9691.2  | 9577.4  | 9565.2  | 9377.1  |
| 75°   | 6718.0  | 6773.9  | 6727.1  | 6780.0  | 6495.4  | 6393.7  | 6220.9  | 5968.8  | 5902.8  | 5798.1  | 5485.0  |
| 77.5° | 3568.9  | 3505.9  | 3380.8  | 3370.7  | 3253.8  | 3163.3  | 3051.5  | 2978.3  | 2793.3  | 2690.7  | 2455.8  |
| 80°   | 2520.9  | 2551.4  | 2599.2  | 2627.6  | 2654.1  | 2674.4  | 2632.7  | 2515.8  | 2361.3  | 2188.5  | 2024.8  |
| 82.5° | 2408.1  | 2449.7  | 2478.2  | 2492.4  | 2482.3  | 2449.7  | 2354.2  | 2242.4  | 2036.0  | 1886.6  | 1709.7  |
| 85°   | 1518.6  | 1552.2  | 1494.2  | 1482.0  | 1507.5  | 1302.1  | 1189.3  | 1097.8  | 889.4   | 827.4   | 730.9   |
| 87.5° | 407.6   | 430.0   | 431.0   | 417.8   | 409.6   | 360.9   | 319.2   | 282.6   | 233.8   | 219.6   | 177.9   |
| 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: P145176  
 CATALOG NUMBER: LDRL-SL3-F06-E-7050

**CANDELA DISTRIBUTION (continued):**

|       | 75°     | 76°     | 77°     | 78°     | 79°     | 80°     | 81°     | 82°     | 83°     | 84°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  | 1605.0  |
| 2.5°  | 1630.5  | 1629.4  | 1629.4  | 1626.4  | 1624.4  | 1623.3  | 1622.3  | 1619.3  | 1617.2  | 1617.2  | 1616.2  |
| 5°    | 1669.1  | 1667.0  | 1664.0  | 1663.0  | 1658.9  | 1656.9  | 1652.8  | 1650.8  | 1647.7  | 1645.7  | 1644.7  |
| 7.5°  | 1724.0  | 1718.9  | 1712.8  | 1713.8  | 1707.7  | 1704.7  | 1702.6  | 1698.6  | 1695.5  | 1692.5  | 1691.4  |
| 10°   | 1797.2  | 1796.1  | 1790.0  | 1792.1  | 1780.9  | 1786.0  | 1775.8  | 1776.8  | 1770.7  | 1764.6  | 1763.6  |
| 12.5° | 1890.7  | 1889.7  | 1883.6  | 1876.4  | 1874.4  | 1875.4  | 1869.3  | 1870.3  | 1863.2  | 1861.2  | 1859.2  |
| 15°   | 1980.1  | 1978.1  | 1975.0  | 1970.0  | 1966.9  | 1965.9  | 1963.9  | 1961.8  | 1955.7  | 1955.7  | 1948.6  |
| 17.5° | 2057.4  | 2058.4  | 2054.3  | 2050.3  | 2048.2  | 2045.2  | 2044.2  | 2044.2  | 2039.1  | 2034.0  | 2035.0  |
| 20°   | 2125.5  | 2127.5  | 2127.5  | 2124.5  | 2125.5  | 2123.4  | 2122.4  | 2124.5  | 2119.4  | 2117.4  | 2114.3  |
| 22.5° | 2201.7  | 2201.7  | 2202.7  | 2204.8  | 2207.8  | 2208.8  | 2208.8  | 2206.8  | 2203.8  | 2202.7  | 2196.6  |
| 25°   | 2307.4  | 2303.4  | 2308.5  | 2310.5  | 2310.5  | 2315.6  | 2313.5  | 2314.5  | 2315.6  | 2312.5  | 2309.5  |
| 27.5° | 2440.6  | 2436.5  | 2446.7  | 2453.8  | 2452.8  | 2455.8  | 2461.9  | 2454.8  | 2458.9  | 2461.9  | 2454.8  |
| 30°   | 2604.2  | 2614.4  | 2621.5  | 2626.6  | 2624.6  | 2633.7  | 2636.8  | 2635.8  | 2632.7  | 2637.8  | 2637.8  |
| 32.5° | 2812.6  | 2807.5  | 2825.8  | 2837.0  | 2838.0  | 2836.0  | 2841.1  | 2847.2  | 2842.1  | 2850.2  | 2846.2  |
| 35°   | 3060.7  | 3063.7  | 3067.8  | 3080.0  | 3085.0  | 3076.9  | 3085.0  | 3092.2  | 3090.1  | 3091.1  | 3095.2  |
| 37.5° | 3380.8  | 3385.9  | 3381.9  | 3382.9  | 3380.8  | 3419.5  | 3425.6  | 3431.7  | 3424.6  | 3418.5  | 3436.8  |
| 40°   | 3825.1  | 3825.1  | 3824.0  | 3837.3  | 3814.9  | 3839.3  | 3832.2  | 3849.5  | 3867.7  | 3857.6  | 3885.0  |
| 42.5° | 4262.1  | 4286.5  | 4288.6  | 4269.3  | 4285.5  | 4312.0  | 4312.0  | 4323.1  | 4339.4  | 4323.1  | 4349.6  |
| 45°   | 4763.3  | 4793.8  | 4788.7  | 4821.2  | 4796.8  | 4827.3  | 4832.4  | 4818.2  | 4853.7  | 4857.8  | 4847.6  |
| 47.5° | 5310.1  | 5316.2  | 5317.3  | 5328.4  | 5333.5  | 5357.9  | 5356.9  | 5383.3  | 5375.2  | 5334.5  | 5348.8  |
| 50°   | 5778.7  | 5794.0  | 5802.1  | 5809.2  | 5834.7  | 5851.9  | 5875.3  | 5879.4  | 5873.3  | 5861.1  | 5849.9  |
| 52.5° | 6247.4  | 6283.9  | 6307.3  | 6370.3  | 6410.0  | 6441.5  | 6480.1  | 6494.4  | 6487.2  | 6484.2  | 6439.5  |
| 55°   | 6874.5  | 6961.9  | 7097.1  | 7184.6  | 7280.1  | 7336.0  | 7380.7  | 7403.1  | 7386.8  | 7395.0  | 7302.5  |
| 57.5° | 8055.7  | 8261.0  | 8378.9  | 8528.4  | 8697.1  | 8767.2  | 8786.5  | 8865.8  | 8778.4  | 8691.0  | 8620.9  |
| 60°   | 9811.2  | 10000.2 | 10214.7 | 10368.2 | 10425.1 | 10619.3 | 10527.8 | 10425.1 | 10331.6 | 10150.7 | 9946.4  |
| 62.5° | 11395.9 | 11639.8 | 11749.6 | 11892.9 | 11854.3 | 11838.1 | 11777.1 | 11613.4 | 11413.2 | 11143.8 | 10871.4 |
| 65°   | 12177.6 | 12314.8 | 12382.9 | 12429.6 | 12385.9 | 12273.1 | 12071.8 | 11829.9 | 11543.3 | 11194.6 | 10836.8 |
| 67°   | 12209.1 | 12272.1 | 12294.5 | 12249.7 | 12152.1 | 11976.3 | 11722.2 | 11379.6 | 11026.9 | 10627.4 | 10224.9 |
| 67.5° | 12157.2 | 12198.9 | 12210.1 | 12139.9 | 12024.1 | 11834.0 | 11562.6 | 11196.6 | 10821.6 | 10406.8 | 10002.3 |
| 70°   | 11449.8 | 11419.3 | 11320.7 | 11224.1 | 10862.2 | 10607.1 | 10134.4 | 9744.1  | 9223.6  | 8842.5  | 8410.4  |
| 72.5° | 9301.9  | 9162.6  | 9067.1  | 8640.2  | 8203.1  | 7950.0  | 7441.7  | 6975.2  | 6500.5  | 6137.6  | 5872.3  |
| 75°   | 5221.7  | 5120.1  | 4854.8  | 4629.1  | 4268.2  | 3937.9  | 3701.0  | 3404.2  | 3119.6  | 2950.9  | 2826.9  |
| 77.5° | 2359.3  | 2068.6  | 1868.3  | 1615.2  | 1305.2  | 1049.0  | 778.6   | 719.7   | 614.0   | 587.5   | 529.6   |
| 80°   | 1840.9  | 1632.5  | 1370.2  | 1080.5  | 762.4   | 512.3   | 376.1   | 319.2   | 299.9   | 287.7   | 281.6   |
| 82.5° | 1535.9  | 1265.5  | 1065.3  | 756.3   | 483.8   | 325.3   | 245.0   | 221.6   | 207.4   | 197.2   | 188.1   |
| 85°   | 656.7   | 519.4   | 427.9   | 306.0   | 217.5   | 171.8   | 150.4   | 137.2   | 124.0   | 112.8   | 105.7   |
| 87.5° | 153.5   | 117.9   | 107.7   | 91.5    | 86.4    | 85.4    | 84.4    | 80.3    | 75.2    | 69.1    | 62.0    |
| 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: P145176  
 CATALOG NUMBER: LDRL-SL3-F06-E-7050

**CANDELA DISTRIBUTION (continued):**

|       | 86°     | 87°     | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1605.0  | 1605.0  | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 | 1605.0 |
| 2.5°  | 1615.2  | 1614.2  | 1612.2 | 1609.1 | 1609.1 | 1605.0 | 1591.8 | 1582.7 | 1572.5 | 1566.4 | 1560.3 |
| 5°    | 1642.6  | 1641.6  | 1636.6 | 1633.5 | 1631.5 | 1623.3 | 1601.0 | 1583.7 | 1565.4 | 1552.2 | 1542.0 |
| 7.5°  | 1688.4  | 1685.3  | 1681.3 | 1679.2 | 1673.1 | 1663.0 | 1630.5 | 1606.1 | 1579.6 | 1558.3 | 1541.0 |
| 10°   | 1762.6  | 1757.5  | 1751.4 | 1745.3 | 1747.3 | 1731.1 | 1693.5 | 1657.9 | 1619.3 | 1585.7 | 1562.3 |
| 12.5° | 1853.1  | 1853.1  | 1850.0 | 1845.9 | 1838.8 | 1820.5 | 1769.7 | 1728.0 | 1681.3 | 1639.6 | 1622.3 |
| 15°   | 1948.6  | 1943.5  | 1938.4 | 1932.3 | 1931.3 | 1906.9 | 1861.2 | 1813.4 | 1764.6 | 1729.1 | 1708.7 |
| 17.5° | 2026.9  | 2028.9  | 2021.8 | 2019.8 | 2017.7 | 1993.3 | 1944.5 | 1901.9 | 1866.3 | 1828.7 | 1796.1 |
| 20°   | 2110.2  | 2106.2  | 2104.1 | 2101.1 | 2100.1 | 2079.7 | 2041.1 | 2014.7 | 1983.2 | 1926.2 | 1840.9 |
| 22.5° | 2199.7  | 2194.6  | 2196.6 | 2190.5 | 2189.5 | 2175.3 | 2146.8 | 2138.7 | 2091.9 | 1972.0 | 1823.6 |
| 25°   | 2315.6  | 2306.4  | 2309.5 | 2309.5 | 2310.5 | 2297.3 | 2294.2 | 2280.0 | 2162.1 | 1960.8 | 1754.5 |
| 27.5° | 2453.8  | 2457.9  | 2457.9 | 2456.9 | 2449.7 | 2453.8 | 2468.0 | 2419.2 | 2186.5 | 1901.9 | 1650.8 |
| 30°   | 2633.7  | 2635.8  | 2637.8 | 2644.9 | 2629.7 | 2656.1 | 2673.4 | 2517.8 | 2168.2 | 1820.5 | 1520.7 |
| 32.5° | 2852.3  | 2844.1  | 2848.2 | 2852.3 | 2857.4 | 2884.8 | 2874.6 | 2567.7 | 2114.3 | 1709.7 | 1359.0 |
| 35°   | 3093.2  | 3108.4  | 3112.5 | 3121.6 | 3131.8 | 3173.5 | 3056.6 | 2577.8 | 2032.0 | 1561.3 | 1152.7 |
| 37.5° | 3452.0  | 3476.4  | 3476.4 | 3508.9 | 3489.6 | 3540.4 | 3219.2 | 2553.4 | 1906.9 | 1355.0 | 919.9  |
| 40°   | 3904.3  | 3915.5  | 3926.7 | 3930.8 | 3920.6 | 3914.5 | 3326.0 | 2493.5 | 1731.1 | 1095.8 | 672.9  |
| 42.5° | 4365.8  | 4361.8  | 4362.8 | 4369.9 | 4342.4 | 4227.6 | 3392.0 | 2388.8 | 1512.5 | 818.3  | 482.8  |
| 45°   | 4862.9  | 4845.6  | 4840.5 | 4826.3 | 4801.9 | 4560.0 | 3429.6 | 2241.4 | 1224.9 | 575.3  | 379.2  |
| 47.5° | 5346.7  | 5325.4  | 5292.9 | 5253.2 | 5206.5 | 4827.3 | 3425.6 | 2050.3 | 939.2  | 411.7  | 334.4  |
| 50°   | 5842.8  | 5805.2  | 5735.0 | 5696.4 | 5617.1 | 5092.6 | 3402.2 | 1837.8 | 676.0  | 340.5  | 313.1  |
| 52.5° | 6410.0  | 6342.9  | 6277.8 | 6200.6 | 6069.5 | 5418.9 | 3366.6 | 1598.9 | 493.0  | 312.1  | 298.8  |
| 55°   | 7255.7  | 7145.9  | 7039.2 | 6878.6 | 6751.5 | 5856.0 | 3306.6 | 1341.8 | 389.3  | 300.9  | 290.7  |
| 57.5° | 8421.6  | 8234.6  | 8099.4 | 7882.9 | 7679.6 | 6460.8 | 3242.6 | 1108.0 | 347.6  | 297.8  | 286.7  |
| 60°   | 9733.9  | 9452.3  | 9200.3 | 8933.9 | 8702.2 | 7216.1 | 3209.1 | 925.0  | 338.5  | 300.9  | 287.7  |
| 62.5° | 10557.3 | 10224.9 | 9909.8 | 9584.5 | 9251.1 | 7576.9 | 3063.7 | 799.0  | 342.6  | 314.1  | 295.8  |
| 65°   | 10453.6 | 10086.6 | 9744.1 | 9347.6 | 9033.6 | 7236.4 | 2693.7 | 676.0  | 349.7  | 337.5  | 318.2  |
| 67°   | 9754.2  | 9398.5  | 9008.1 | 8619.8 | 8314.9 | 6588.9 | 2273.9 | 569.2  | 357.8  | 363.9  | 342.6  |
| 67.5° | 9567.2  | 9166.7  | 8773.3 | 8416.5 | 8086.2 | 6388.6 | 2164.1 | 542.8  | 359.8  | 371.0  | 350.7  |
| 70°   | 7978.4  | 7661.3  | 7200.8 | 6936.5 | 6697.7 | 5179.0 | 1614.2 | 421.8  | 365.9  | 402.5  | 389.3  |
| 72.5° | 5582.6  | 5275.6  | 5034.7 | 4890.3 | 4751.1 | 3763.0 | 1135.4 | 336.5  | 356.8  | 419.8  | 406.6  |
| 75°   | 2819.7  | 2749.6  | 2665.2 | 2618.5 | 2620.5 | 2187.5 | 684.1  | 286.7  | 335.4  | 402.5  | 369.0  |
| 77.5° | 557.0   | 542.8   | 548.9  | 600.7  | 591.6  | 673.9  | 339.5  | 242.9  | 285.6  | 310.0  | 265.3  |
| 80°   | 269.4   | 260.2   | 252.1  | 250.1  | 245.0  | 234.8  | 213.5  | 202.3  | 231.8  | 204.3  | 175.9  |
| 82.5° | 174.8   | 164.7   | 160.6  | 152.5  | 153.5  | 166.7  | 186.0  | 194.1  | 188.1  | 141.3  | 118.9  |
| 85°   | 98.6    | 97.6    | 95.6   | 97.6   | 101.6  | 133.2  | 199.2  | 182.0  | 151.5  | 99.6   | 89.5   |
| 87.5° | 59.0    | 55.9    | 56.9   | 57.9   | 60.0   | 98.6   | 157.6  | 131.1  | 96.6   | 51.8   | 52.9   |
| 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: P145176

CATALOG NUMBER: LDRL-SL3-F06-E-7050

**CANDELA DISTRIBUTION (continued):**

|       | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1605.0 | 1605.0 | 1605.0 | 1605.0 |
| 2.5°  | 1559.3 | 1555.2 | 1555.2 | 1554.2 |
| 5°    | 1533.9 | 1527.8 | 1526.8 | 1526.8 |
| 7.5°  | 1529.8 | 1521.7 | 1520.7 | 1517.6 |
| 10°   | 1548.1 | 1545.1 | 1546.1 | 1543.0 |
| 12.5° | 1606.1 | 1610.1 | 1614.2 | 1614.2 |
| 15°   | 1694.5 | 1691.4 | 1696.5 | 1691.4 |
| 17.5° | 1759.5 | 1733.1 | 1727.0 | 1724.0 |
| 20°   | 1761.6 | 1706.7 | 1688.4 | 1685.3 |
| 22.5° | 1698.6 | 1617.2 | 1586.7 | 1581.7 |
| 25°   | 1591.8 | 1489.2 | 1450.5 | 1446.5 |
| 27.5° | 1457.6 | 1342.8 | 1285.9 | 1283.8 |
| 30°   | 1296.0 | 1159.8 | 1087.6 | 1076.5 |
| 32.5° | 1098.8 | 937.2  | 861.0  | 836.6  |
| 35°   | 871.1  | 705.4  | 634.3  | 632.3  |
| 37.5° | 650.6  | 521.5  | 475.7  | 473.7  |
| 40°   | 476.7  | 409.6  | 392.4  | 389.3  |
| 42.5° | 389.3  | 361.9  | 354.8  | 351.7  |
| 45°   | 348.7  | 337.5  | 333.4  | 330.4  |
| 47.5° | 324.3  | 317.1  | 314.1  | 314.1  |
| 50°   | 304.9  | 302.9  | 300.9  | 300.9  |
| 52.5° | 291.7  | 290.7  | 288.7  | 287.7  |
| 55°   | 280.6  | 276.5  | 277.5  | 276.5  |
| 57.5° | 273.4  | 267.3  | 267.3  | 267.3  |
| 60°   | 269.4  | 258.2  | 258.2  | 259.2  |
| 62.5° | 270.4  | 253.1  | 252.1  | 252.1  |
| 65°   | 278.5  | 250.1  | 244.0  | 245.0  |
| 67°   | 288.7  | 247.0  | 234.8  | 233.8  |
| 67.5° | 291.7  | 245.0  | 231.8  | 230.7  |
| 70°   | 303.9  | 238.9  | 216.5  | 214.5  |
| 72.5° | 306.0  | 229.7  | 201.3  | 199.2  |
| 75°   | 284.6  | 217.5  | 189.1  | 184.0  |
| 77.5° | 221.6  | 187.0  | 170.8  | 170.8  |
| 80°   | 155.5  | 143.3  | 122.0  | 121.0  |
| 82.5° | 113.8  | 107.7  | 89.5   | 87.4   |
| 85°   | 83.4   | 78.3   | 66.1   | 66.1   |
| 87.5° | 51.8   | 49.8   | 42.7   | 40.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)