

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: STREETWORKS

Report Number: P146576

Luminaire Tested: **RDG-F04-LED-E-U-T2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146576  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-F04-LED-E-U-T2-7050  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (28) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10160.1 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.2  
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: 28.75 FT



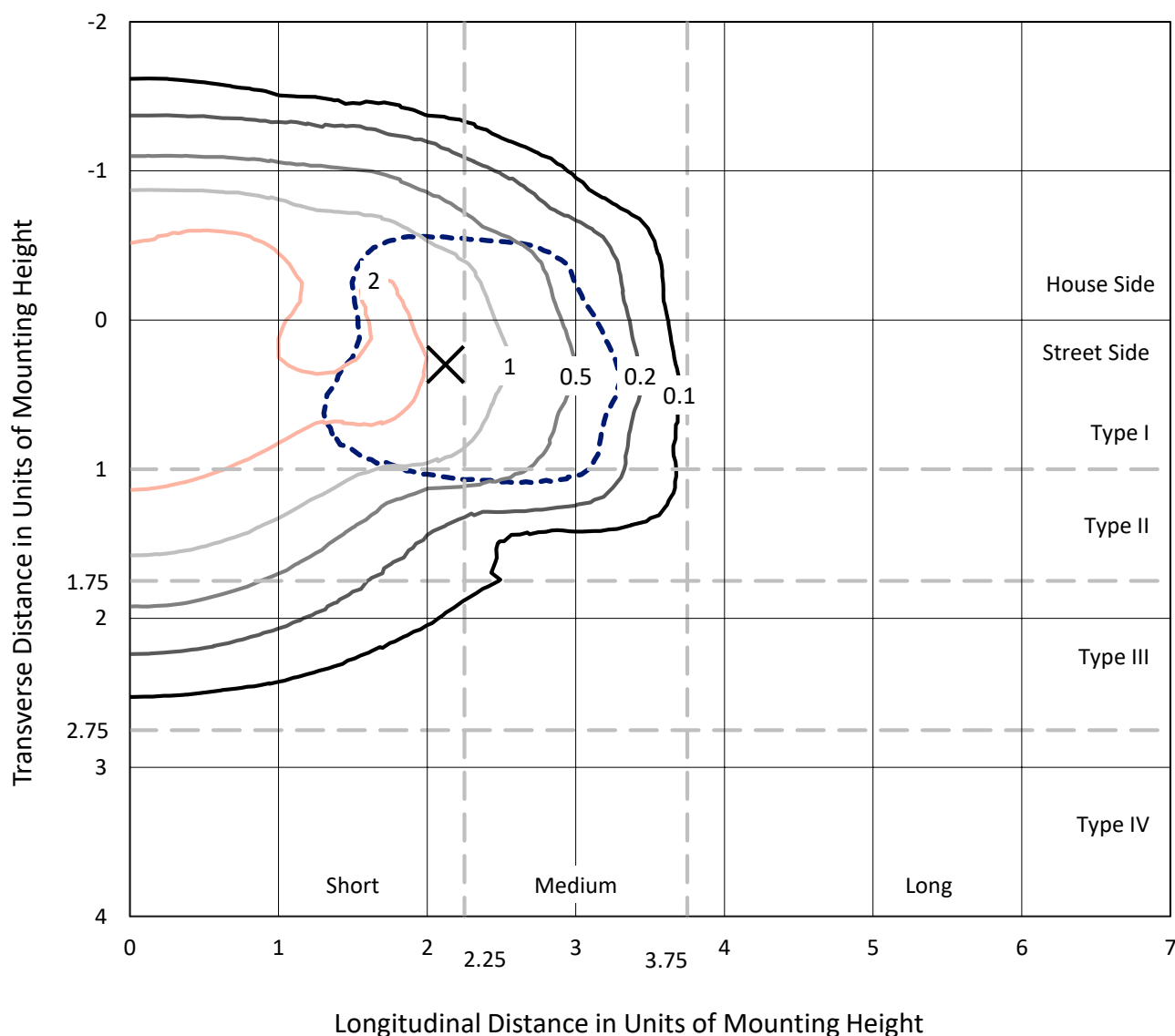
REPORT NUMBER: P146576

CATALOG NUMBER: RDG-F04-LED-E-U-T2-7050

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

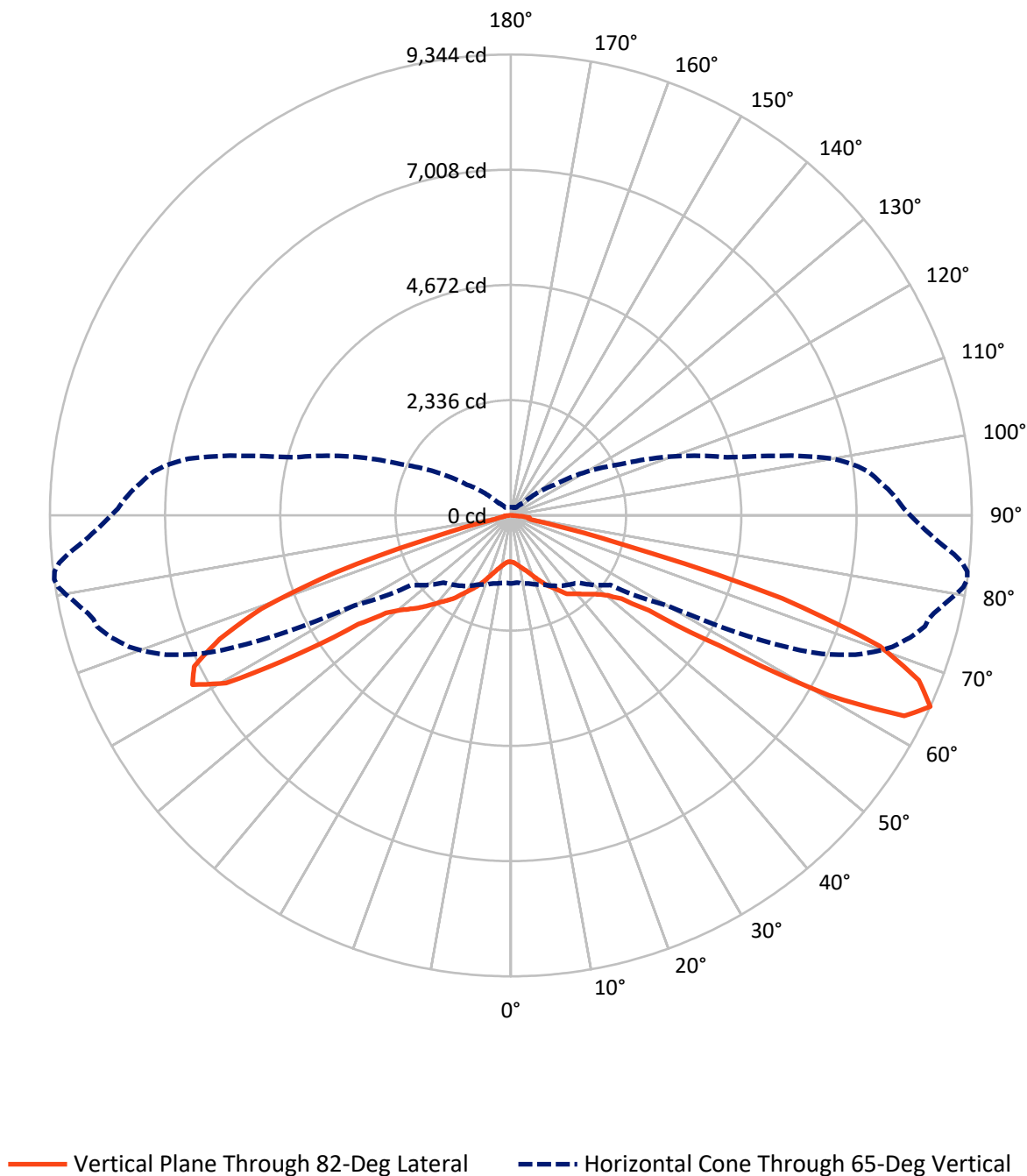


Based on 20 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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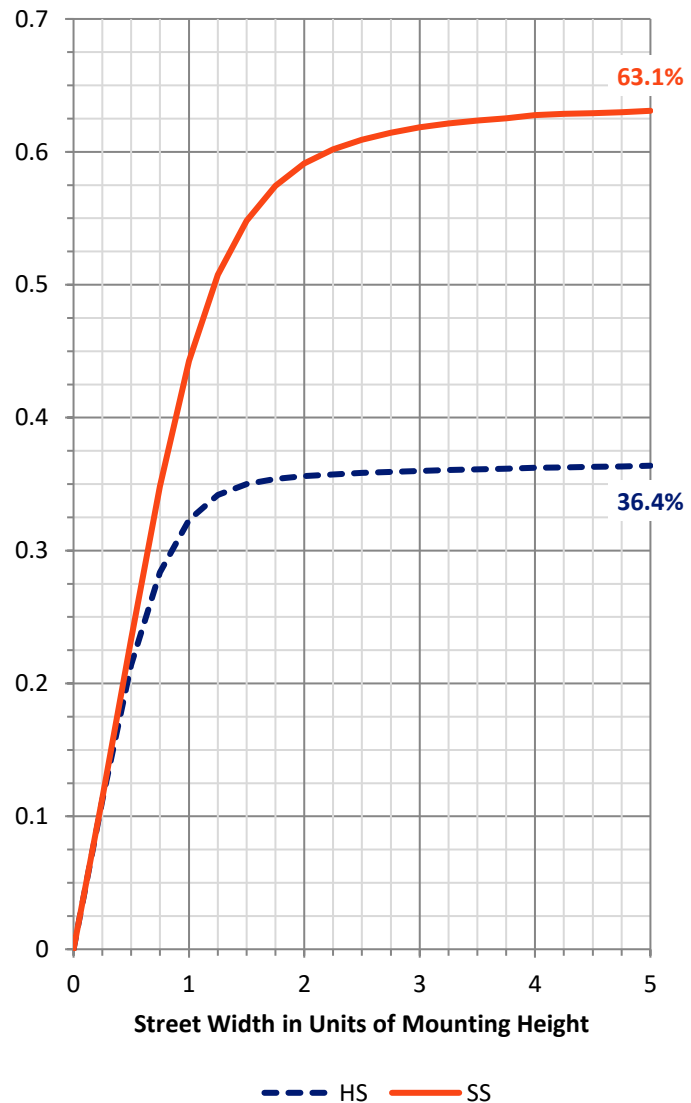
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3740.0   | 0.0    | 3740.0  |
|                    | % Fixture | 36.8     | 0.0    | 36.8    |
| <b>Street Side</b> | Lumens    | 6420.1   | 0.0    | 6420.1  |
|                    | % Fixture | 63.2     | 0.0    | 63.2    |
| <b>Total</b>       | Lumens    | 10160.1  | 0.0    | 10160.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 95.5    | 0.9       |
| 10°-20°   | 336.5   | 3.3       |
| 20°-30°   | 667.4   | 6.6       |
| 30°-40°   | 1138.7  | 11.2      |
| 40°-50°   | 1707.5  | 16.8      |
| 50°-60°   | 2376.8  | 23.4      |
| 60°-70°   | 2730.6  | 26.9      |
| 70°-80°   | 942.3   | 9.3       |
| 80°-90°   | 164.8   | 1.6       |
| 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°    | 10160.1 | 100.0     |
| 0°-180°   | 10160.1 | 100.0     |

**Coefficient of Utilization**



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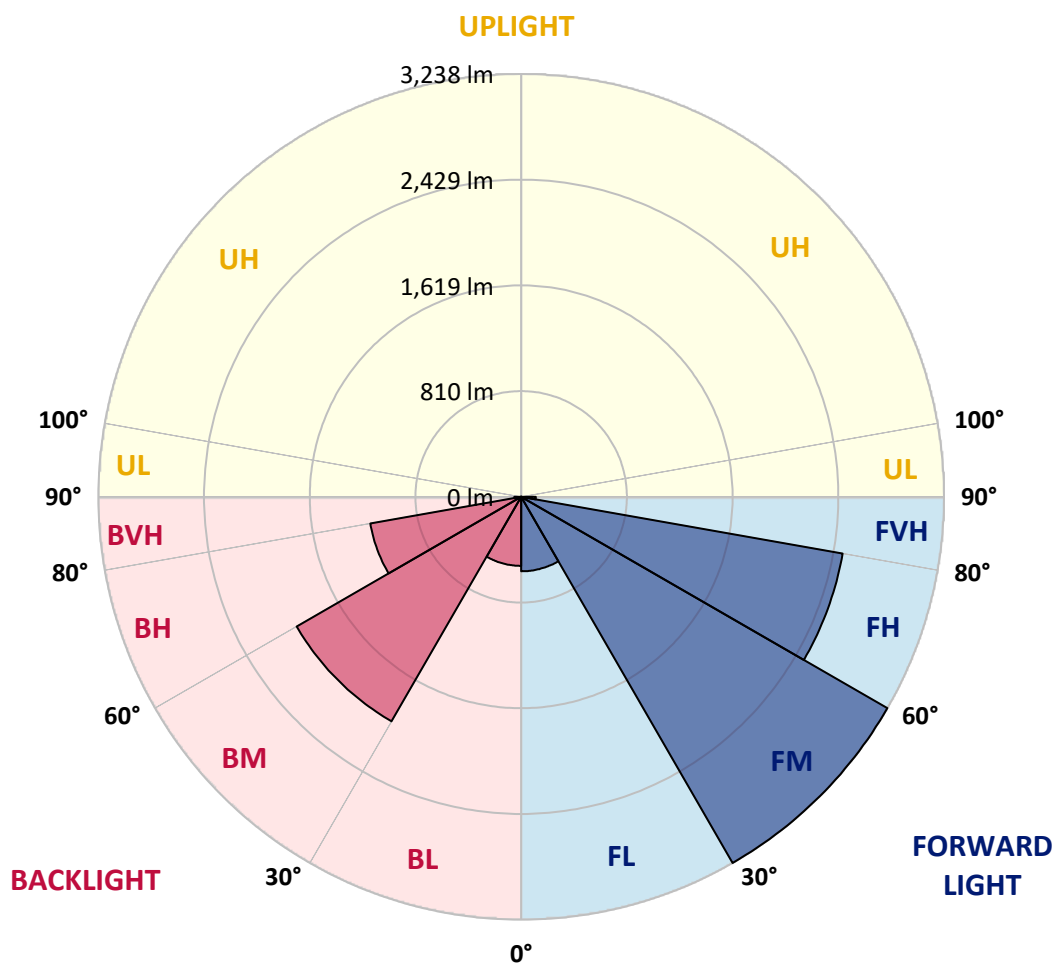
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 570.3  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 3238.1 | 31.9      |                         |      |         |
| FH   | (60°-80°)   | 2499.7 | 24.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 111.9  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 529.0  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1984.9 | 19.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1173.2 | 11.5      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 52.9   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  |
| 2.5°  | 993.5  | 992.8  | 992.1  | 989.4  | 988.0  | 982.6  | 977.2  | 973.8  | 971.1  | 972.4  | 968.4  |
| 5°    | 1051.1 | 1051.1 | 1048.3 | 1045.0 | 1040.9 | 1033.4 | 1019.9 | 1013.1 | 1011.7 | 1011.7 | 1007.0 |
| 7.5°  | 1110.0 | 1114.1 | 1106.6 | 1103.9 | 1097.1 | 1085.6 | 1070.0 | 1061.2 | 1058.5 | 1058.5 | 1054.4 |
| 10°   | 1184.6 | 1182.5 | 1174.4 | 1169.0 | 1155.4 | 1139.8 | 1118.8 | 1108.7 | 1104.6 | 1108.0 | 1101.2 |
| 12.5° | 1263.2 | 1262.5 | 1250.3 | 1240.1 | 1221.1 | 1196.1 | 1168.3 | 1154.7 | 1152.0 | 1152.0 | 1148.0 |
| 15°   | 1343.1 | 1343.8 | 1330.2 | 1311.3 | 1281.5 | 1247.6 | 1216.4 | 1203.5 | 1200.1 | 1198.8 | 1194.0 |
| 17.5° | 1404.1 | 1410.9 | 1397.3 | 1372.9 | 1336.3 | 1299.1 | 1265.9 | 1253.0 | 1252.3 | 1251.0 | 1245.5 |
| 20°   | 1438.7 | 1440.0 | 1432.6 | 1415.0 | 1382.4 | 1346.5 | 1323.5 | 1317.4 | 1316.7 | 1317.4 | 1318.7 |
| 22.5° | 1437.3 | 1439.4 | 1436.6 | 1429.9 | 1408.9 | 1389.2 | 1386.5 | 1389.9 | 1391.9 | 1389.9 | 1394.6 |
| 25°   | 1426.5 | 1429.2 | 1429.2 | 1432.6 | 1427.2 | 1433.9 | 1455.6 | 1465.1 | 1465.8 | 1467.1 | 1477.3 |
| 27.5° | 1450.2 | 1452.9 | 1452.2 | 1458.3 | 1463.1 | 1486.8 | 1526.1 | 1543.0 | 1545.1 | 1549.8 | 1559.3 |
| 30°   | 1560.0 | 1560.7 | 1548.5 | 1547.8 | 1552.5 | 1571.5 | 1611.5 | 1631.1 | 1629.1 | 1638.6 | 1644.7 |
| 32.5° | 1733.5 | 1738.9 | 1726.7 | 1713.8 | 1711.8 | 1714.5 | 1721.9 | 1735.5 | 1733.5 | 1738.2 | 1746.3 |
| 35°   | 1931.3 | 1932.0 | 1925.2 | 1932.7 | 1936.8 | 1918.5 | 1883.2 | 1879.8 | 1869.0 | 1871.0 | 1873.7 |
| 37.5° | 2112.9 | 2117.7 | 2130.6 | 2178.0 | 2205.1 | 2160.4 | 2091.3 | 2047.9 | 2041.1 | 2037.7 | 2014.0 |
| 40°   | 2283.0 | 2306.8 | 2337.9 | 2399.6 | 2436.9 | 2453.1 | 2354.9 | 2267.5 | 2243.7 | 2234.2 | 2197.0 |
| 42.5° | 2482.3 | 2494.5 | 2531.1 | 2601.5 | 2651.0 | 2724.9 | 2659.1 | 2562.9 | 2535.1 | 2494.5 | 2447.7 |
| 45°   | 2651.0 | 2659.1 | 2682.2 | 2741.8 | 2845.5 | 2968.8 | 2976.3 | 2909.2 | 2887.5 | 2846.9 | 2778.4 |
| 47.5° | 2764.2 | 2763.5 | 2780.4 | 2838.7 | 2973.6 | 3162.0 | 3273.8 | 3271.1 | 3246.0 | 3231.8 | 3173.5 |
| 50°   | 2808.2 | 2807.5 | 2818.4 | 2883.4 | 3030.5 | 3277.2 | 3523.8 | 3608.5 | 3607.9 | 3613.3 | 3583.5 |
| 52.5° | 2816.4 | 2815.7 | 2817.0 | 2869.2 | 3019.0 | 3317.1 | 3704.1 | 3904.0 | 3933.1 | 3969.7 | 4002.9 |
| 55°   | 2755.4 | 2762.1 | 2777.1 | 2831.9 | 2975.6 | 3300.9 | 3837.6 | 4181.2 | 4251.0 | 4325.5 | 4446.1 |
| 57.5° | 2614.4 | 2627.3 | 2678.8 | 2777.1 | 2929.5 | 3260.9 | 3930.4 | 4524.1 | 4665.7 | 4846.0 | 5172.6 |
| 60°   | 2412.5 | 2424.0 | 2495.1 | 2625.3 | 2795.3 | 3086.7 | 3822.7 | 4667.7 | 4936.8 | 5249.8 | 5919.4 |
| 62.5° | 2055.3 | 2087.9 | 2125.8 | 2218.0 | 2396.2 | 2630.7 | 3338.8 | 4425.1 | 4841.9 | 5301.3 | 6223.0 |
| 65°   | 1380.4 | 1366.8 | 1429.9 | 1547.1 | 1742.9 | 1925.2 | 2459.9 | 3649.9 | 4177.1 | 4809.4 | 5949.9 |
| 67.5° | 854.5  | 856.6  | 899.3  | 1013.8 | 1161.5 | 1303.1 | 1559.3 | 2326.4 | 2794.0 | 3395.1 | 4766.7 |
| 70°   | 706.1  | 714.3  | 748.8  | 855.2  | 981.3  | 1141.2 | 1157.4 | 1233.3 | 1442.7 | 1733.5 | 2944.4 |
| 72.5° | 560.4  | 563.8  | 599.1  | 687.8  | 866.1  | 1085.6 | 1374.3 | 937.2  | 920.9  | 965.0  | 1493.6 |
| 75°   | 347.6  | 350.4  | 368.0  | 424.9  | 561.8  | 845.7  | 1513.2 | 1077.5 | 1009.7 | 952.8  | 962.3  |
| 77.5° | 179.6  | 185.0  | 194.5  | 220.2  | 294.8  | 472.3  | 1191.3 | 1366.2 | 1288.9 | 1211.7 | 1060.5 |
| 80°   | 101.6  | 101.6  | 110.5  | 116.6  | 139.6  | 192.5  | 605.8  | 1478.7 | 1615.5 | 1648.7 | 1480.7 |
| 82.5° | 45.4   | 50.8   | 68.4   | 73.2   | 80.0   | 88.1   | 200.6  | 888.4  | 1232.7 | 1539.6 | 1902.9 |
| 85°   | 27.1   | 26.4   | 43.4   | 47.4   | 49.5   | 42.0   | 75.2   | 362.5  | 576.0  | 843.0  | 1261.1 |
| 87.5° | 10.8   | 11.5   | 18.3   | 19.7   | 23.0   | 16.9   | 28.5   | 77.9   | 114.5  | 166.0  | 234.5  |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  |
| 2.5°  | 967.7  | 967.7  | 967.0  | 966.3  | 965.7  | 963.6  | 963.0  | 961.6  | 960.9  | 958.9  | 958.2  |
| 5°    | 1006.3 | 1004.3 | 1003.6 | 1002.3 | 1001.6 | 998.9  | 998.9  | 996.2  | 994.1  | 991.4  | 990.7  |
| 7.5°  | 1052.4 | 1049.7 | 1047.7 | 1046.3 | 1045.6 | 1040.9 | 1040.9 | 1036.8 | 1036.1 | 1032.8 | 1031.4 |
| 10°   | 1099.2 | 1097.1 | 1094.4 | 1093.1 | 1092.4 | 1089.7 | 1087.0 | 1084.3 | 1082.2 | 1080.2 | 1077.5 |
| 12.5° | 1145.9 | 1141.9 | 1140.5 | 1138.5 | 1137.1 | 1135.1 | 1134.4 | 1128.3 | 1128.3 | 1126.3 | 1123.6 |
| 15°   | 1191.3 | 1190.6 | 1185.9 | 1185.2 | 1183.9 | 1184.6 | 1180.5 | 1181.2 | 1179.1 | 1175.7 | 1174.4 |
| 17.5° | 1246.9 | 1242.2 | 1244.2 | 1240.8 | 1241.5 | 1240.1 | 1238.8 | 1238.1 | 1239.4 | 1238.8 | 1240.1 |
| 20°   | 1316.0 | 1314.7 | 1316.7 | 1312.0 | 1316.7 | 1317.4 | 1316.0 | 1319.4 | 1318.0 | 1319.4 | 1315.3 |
| 22.5° | 1398.0 | 1393.3 | 1393.3 | 1396.7 | 1398.7 | 1404.8 | 1401.4 | 1404.1 | 1406.8 | 1408.9 | 1406.1 |
| 25°   | 1480.7 | 1479.3 | 1482.0 | 1484.8 | 1488.8 | 1494.2 | 1492.9 | 1493.6 | 1499.0 | 1502.4 | 1503.1 |
| 27.5° | 1564.7 | 1564.7 | 1572.9 | 1572.9 | 1578.3 | 1584.4 | 1586.4 | 1589.1 | 1593.2 | 1597.9 | 1597.9 |
| 30°   | 1651.5 | 1651.5 | 1658.9 | 1665.7 | 1668.4 | 1675.9 | 1679.9 | 1684.0 | 1691.4 | 1692.8 | 1698.9 |
| 32.5° | 1750.4 | 1752.4 | 1759.9 | 1764.0 | 1770.0 | 1778.9 | 1780.2 | 1785.0 | 1793.8 | 1796.5 | 1801.2 |
| 35°   | 1879.2 | 1872.4 | 1879.2 | 1886.6 | 1890.0 | 1887.3 | 1902.2 | 1908.3 | 1914.4 | 1917.8 | 1923.9 |
| 37.5° | 2012.0 | 2000.5 | 2001.1 | 1999.8 | 1991.6 | 1996.4 | 1996.4 | 1995.0 | 1999.1 | 1998.4 | 2001.1 |
| 40°   | 2180.0 | 2159.7 | 2153.6 | 2140.7 | 2123.1 | 2113.6 | 2103.5 | 2102.1 | 2091.9 | 2096.0 | 2088.5 |
| 42.5° | 2410.4 | 2379.9 | 2363.7 | 2323.7 | 2302.0 | 2276.3 | 2251.2 | 2229.5 | 2218.0 | 2205.1 | 2195.6 |
| 45°   | 2726.9 | 2691.0 | 2651.7 | 2587.3 | 2550.0 | 2498.5 | 2465.3 | 2415.9 | 2382.7 | 2354.9 | 2335.2 |
| 47.5° | 3124.0 | 3063.7 | 3031.9 | 2971.5 | 2906.5 | 2828.6 | 2757.4 | 2688.3 | 2632.0 | 2571.0 | 2522.9 |
| 50°   | 3585.5 | 3510.3 | 3485.2 | 3405.2 | 3368.7 | 3281.2 | 3205.3 | 3119.9 | 3031.9 | 2939.7 | 2851.6 |
| 52.5° | 3994.1 | 3985.3 | 3995.5 | 3942.0 | 3940.6 | 3896.5 | 3812.5 | 3712.9 | 3630.9 | 3538.1 | 3422.2 |
| 55°   | 4484.1 | 4571.5 | 4590.5 | 4583.0 | 4623.0 | 4621.6 | 4613.5 | 4603.3 | 4538.3 | 4406.8 | 4366.8 |
| 57.5° | 5348.8 | 5447.0 | 5592.1 | 5657.8 | 5802.8 | 5819.7 | 5953.9 | 5901.7 | 6001.4 | 5974.3 | 5992.6 |
| 60°   | 6229.1 | 6530.6 | 6805.7 | 7015.1 | 7218.4 | 7403.4 | 7629.8 | 7726.7 | 7799.2 | 7912.4 | 8031.6 |
| 62.5° | 6622.8 | 7002.9 | 7330.9 | 7629.1 | 7881.9 | 8116.3 | 8310.8 | 8495.2 | 8640.2 | 8770.3 | 8870.6 |
| 65°   | 6463.5 | 6904.7 | 7224.5 | 7535.6 | 7771.4 | 7989.6 | 8182.8 | 8321.0 | 8465.3 | 8583.2 | 8689.6 |
| 67.5° | 5381.3 | 5968.8 | 6386.3 | 6739.3 | 7035.5 | 7284.2 | 7484.8 | 7675.2 | 7777.5 | 7906.3 | 7963.9 |
| 70°   | 3564.5 | 4318.1 | 4908.3 | 5385.4 | 5855.0 | 6136.9 | 6374.8 | 6596.3 | 6712.9 | 6817.3 | 6881.6 |
| 72.5° | 1957.8 | 2472.8 | 3103.0 | 3670.2 | 4121.5 | 4491.5 | 4768.7 | 4978.8 | 5098.7 | 5188.2 | 5095.3 |
| 75°   | 1109.3 | 1363.5 | 1671.8 | 1985.5 | 2327.8 | 2588.7 | 2661.9 | 2751.3 | 2772.3 | 2726.2 | 2607.0 |
| 77.5° | 1019.9 | 1019.9 | 1020.6 | 1013.1 | 1028.0 | 1046.3 | 1035.5 | 1017.2 | 934.5  | 916.2  | 890.4  |
| 80°   | 1326.2 | 1181.8 | 1027.3 | 843.7  | 687.8  | 580.1  | 546.9  | 549.6  | 576.0  | 627.5  | 684.4  |
| 82.5° | 1879.8 | 1737.5 | 1514.6 | 1234.7 | 982.6  | 771.2  | 632.3  | 568.6  | 567.9  | 619.4  | 693.2  |
| 85°   | 1370.9 | 1382.4 | 1333.0 | 1179.1 | 940.6  | 740.7  | 598.4  | 459.5  | 414.7  | 414.7  | 409.3  |
| 87.5° | 239.9  | 247.3  | 213.5  | 191.1  | 133.5  | 94.2   | 84.7   | 74.5   | 73.9   | 76.6   | 70.5   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  |
| 2.5°  | 958.2  | 956.9  | 955.5  | 954.8  | 954.8  | 953.5  | 953.5  | 952.1  | 952.8  | 952.1  | 950.1  |
| 5°    | 989.4  | 988.7  | 986.7  | 983.3  | 982.6  | 979.9  | 980.6  | 977.9  | 977.9  | 976.5  | 973.1  |
| 7.5°  | 1028.7 | 1027.3 | 1026.0 | 1023.3 | 1020.6 | 1020.6 | 1015.8 | 1015.8 | 1012.4 | 1011.1 | 1008.4 |
| 10°   | 1075.4 | 1071.4 | 1069.3 | 1066.6 | 1066.0 | 1065.3 | 1060.5 | 1060.5 | 1056.5 | 1055.8 | 1053.8 |
| 12.5° | 1121.5 | 1118.8 | 1116.8 | 1115.4 | 1112.0 | 1111.4 | 1109.3 | 1107.3 | 1105.3 | 1103.9 | 1103.2 |
| 15°   | 1171.7 | 1170.3 | 1168.3 | 1168.3 | 1168.3 | 1164.9 | 1162.9 | 1161.5 | 1161.5 | 1159.5 | 1160.8 |
| 17.5° | 1236.7 | 1238.8 | 1236.1 | 1234.7 | 1232.7 | 1236.1 | 1232.7 | 1232.7 | 1234.7 | 1234.7 | 1230.0 |
| 20°   | 1317.4 | 1320.1 | 1317.4 | 1318.0 | 1316.7 | 1317.4 | 1318.0 | 1319.4 | 1322.1 | 1317.4 | 1318.0 |
| 22.5° | 1406.8 | 1407.5 | 1409.5 | 1407.5 | 1410.9 | 1408.9 | 1412.9 | 1416.3 | 1415.6 | 1414.3 | 1415.0 |
| 25°   | 1504.4 | 1502.4 | 1503.1 | 1509.1 | 1513.9 | 1512.5 | 1513.2 | 1518.6 | 1517.3 | 1515.9 | 1516.6 |
| 27.5° | 1603.3 | 1602.0 | 1604.0 | 1609.4 | 1614.9 | 1614.2 | 1612.8 | 1616.9 | 1616.9 | 1613.5 | 1614.9 |
| 30°   | 1701.6 | 1703.6 | 1707.0 | 1707.0 | 1709.7 | 1712.4 | 1710.4 | 1715.2 | 1715.8 | 1713.1 | 1716.5 |
| 32.5° | 1805.3 | 1809.4 | 1808.0 | 1817.5 | 1817.5 | 1818.2 | 1820.2 | 1819.5 | 1826.3 | 1820.9 | 1822.9 |
| 35°   | 1930.0 | 1931.3 | 1939.5 | 1946.2 | 1950.3 | 1953.7 | 1953.7 | 1955.7 | 1959.1 | 1956.4 | 1960.5 |
| 37.5° | 2005.9 | 2008.6 | 2011.3 | 2015.4 | 2015.4 | 2015.4 | 2018.8 | 2019.4 | 2021.5 | 2020.8 | 2022.1 |
| 40°   | 2089.2 | 2089.9 | 2090.6 | 2091.3 | 2094.0 | 2095.3 | 2091.9 | 2096.7 | 2093.3 | 2094.6 | 2096.7 |
| 42.5° | 2190.2 | 2180.7 | 2182.1 | 2180.0 | 2184.8 | 2178.7 | 2180.0 | 2185.5 | 2182.7 | 2186.8 | 2186.8 |
| 45°   | 2307.4 | 2296.6 | 2287.1 | 2281.7 | 2281.7 | 2273.6 | 2274.9 | 2276.9 | 2280.3 | 2285.7 | 2295.2 |
| 47.5° | 2480.9 | 2443.6 | 2425.3 | 2406.4 | 2396.9 | 2386.7 | 2390.1 | 2390.8 | 2392.1 | 2401.0 | 2424.7 |
| 50°   | 2764.9 | 2702.5 | 2654.4 | 2596.8 | 2575.1 | 2557.5 | 2547.3 | 2548.0 | 2548.0 | 2566.3 | 2590.0 |
| 52.5° | 3313.8 | 3197.9 | 3083.4 | 2983.1 | 2897.0 | 2855.7 | 2807.5 | 2795.3 | 2796.0 | 2811.6 | 2827.9 |
| 55°   | 4261.8 | 4102.6 | 3981.3 | 3758.3 | 3690.5 | 3500.1 | 3399.8 | 3342.2 | 3297.5 | 3319.2 | 3342.9 |
| 57.5° | 5962.7 | 5815.7 | 5719.5 | 5453.1 | 5210.5 | 5141.4 | 4976.7 | 4843.2 | 4788.3 | 4724.6 | 4728.7 |
| 60°   | 8049.3 | 7973.4 | 7949.0 | 7793.1 | 7705.7 | 7433.9 | 7412.3 | 7243.5 | 7084.3 | 6946.7 | 7002.9 |
| 62.5° | 8947.8 | 8983.1 | 9011.5 | 9066.4 | 9087.4 | 9061.7 | 8952.6 | 8878.0 | 8747.2 | 8567.0 | 8456.5 |
| 65°   | 8720.8 | 8801.5 | 8922.8 | 9037.3 | 9174.2 | 9288.0 | 9344.3 | 9322.6 | 9204.7 | 9019.0 | 8787.2 |
| 67.5° | 8005.2 | 8087.2 | 8191.6 | 8336.6 | 8546.0 | 8767.6 | 8922.1 | 9020.3 | 8926.8 | 8759.4 | 8523.6 |
| 70°   | 6878.3 | 6958.2 | 6961.6 | 7164.2 | 7389.9 | 7669.1 | 7942.9 | 8045.9 | 7939.5 | 7827.7 | 7630.5 |
| 72.5° | 5151.6 | 5103.5 | 5148.2 | 5185.5 | 5314.2 | 5490.4 | 5756.0 | 5744.5 | 5581.9 | 5495.1 | 5192.2 |
| 75°   | 2421.3 | 2388.8 | 2341.3 | 2310.1 | 2280.3 | 2218.0 | 2247.8 | 2120.4 | 2076.4 | 2094.0 | 1832.4 |
| 77.5° | 870.8  | 826.1  | 754.2  | 684.4  | 596.3  | 494.0  | 416.8  | 365.9  | 340.9  | 341.5  | 326.0  |
| 80°   | 730.5  | 752.2  | 742.0  | 672.9  | 574.0  | 466.9  | 349.7  | 265.0  | 226.3  | 210.1  | 199.9  |
| 82.5° | 792.2  | 901.3  | 955.5  | 912.8  | 771.2  | 593.6  | 382.2  | 231.1  | 169.4  | 145.0  | 138.9  |
| 85°   | 439.1  | 439.8  | 426.2  | 407.3  | 361.2  | 248.0  | 165.3  | 109.8  | 88.1   | 78.6   | 75.9   |
| 87.5° | 74.5   | 71.2   | 71.2   | 66.4   | 58.3   | 56.9   | 50.8   | 48.1   | 42.7   | 39.3   | 37.9   |
| 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: P146576

CATALOG NUMBER: RDG-F04-LED-E-U-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    | 97°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  |
| 2.5°  | 948.0  | 946.7  | 946.0  | 945.3  | 945.3  | 944.7  | 944.7  | 943.3  | 941.9  | 941.3  | 940.6  |
| 5°    | 969.7  | 968.4  | 967.0  | 965.7  | 965.7  | 964.3  | 963.0  | 961.6  | 959.6  | 956.2  | 955.5  |
| 7.5°  | 1006.3 | 1003.6 | 1003.6 | 998.9  | 998.9  | 996.2  | 994.1  | 994.1  | 991.4  | 986.0  | 985.3  |
| 10°   | 1051.7 | 1047.0 | 1045.0 | 1042.2 | 1040.9 | 1038.2 | 1038.2 | 1035.5 | 1034.1 | 1032.1 | 1025.3 |
| 12.5° | 1100.5 | 1097.1 | 1095.8 | 1092.4 | 1090.4 | 1090.4 | 1089.0 | 1084.3 | 1087.6 | 1082.9 | 1079.5 |
| 15°   | 1159.5 | 1158.8 | 1152.7 | 1154.7 | 1154.1 | 1153.4 | 1154.1 | 1150.0 | 1149.3 | 1149.3 | 1145.2 |
| 17.5° | 1233.3 | 1227.9 | 1228.6 | 1228.6 | 1230.0 | 1230.0 | 1224.5 | 1227.2 | 1227.9 | 1226.6 | 1225.2 |
| 20°   | 1320.1 | 1318.0 | 1320.1 | 1316.0 | 1320.1 | 1320.1 | 1322.8 | 1322.1 | 1322.8 | 1324.1 | 1324.1 |
| 22.5° | 1412.9 | 1418.3 | 1419.0 | 1420.4 | 1415.6 | 1423.8 | 1423.8 | 1425.1 | 1428.5 | 1428.5 | 1429.9 |
| 25°   | 1525.4 | 1522.7 | 1519.3 | 1524.1 | 1525.4 | 1530.8 | 1532.2 | 1532.2 | 1537.6 | 1537.6 | 1539.6 |
| 27.5° | 1618.9 | 1621.6 | 1621.0 | 1623.7 | 1622.3 | 1629.8 | 1632.5 | 1640.6 | 1638.6 | 1642.6 | 1648.1 |
| 30°   | 1715.2 | 1720.6 | 1717.9 | 1718.5 | 1721.9 | 1726.7 | 1732.1 | 1740.2 | 1741.6 | 1752.4 | 1755.1 |
| 32.5° | 1826.3 | 1830.4 | 1833.7 | 1835.1 | 1835.1 | 1843.2 | 1852.0 | 1854.8 | 1869.0 | 1877.1 | 1886.6 |
| 35°   | 1967.2 | 1967.9 | 1970.0 | 1972.0 | 1970.6 | 1979.4 | 1988.3 | 1991.0 | 2005.9 | 2007.9 | 2027.6 |
| 37.5° | 2026.9 | 2028.2 | 2036.4 | 2040.4 | 2043.1 | 2054.0 | 2070.3 | 2082.5 | 2098.7 | 2114.3 | 2136.7 |
| 40°   | 2101.4 | 2109.6 | 2117.0 | 2123.1 | 2133.3 | 2148.2 | 2173.3 | 2185.5 | 2209.9 | 2239.0 | 2260.7 |
| 42.5° | 2195.6 | 2210.5 | 2215.9 | 2227.5 | 2252.5 | 2270.8 | 2295.9 | 2322.3 | 2354.9 | 2390.1 | 2415.9 |
| 45°   | 2307.4 | 2321.7 | 2342.0 | 2354.9 | 2384.0 | 2413.1 | 2453.1 | 2476.2 | 2509.4 | 2550.0 | 2578.5 |
| 47.5° | 2443.0 | 2462.6 | 2482.9 | 2509.4 | 2543.9 | 2574.4 | 2614.4 | 2644.2 | 2677.4 | 2710.6 | 2741.8 |
| 50°   | 2611.7 | 2640.8 | 2667.9 | 2695.7 | 2741.8 | 2767.6 | 2806.9 | 2838.0 | 2869.2 | 2902.4 | 2930.9 |
| 52.5° | 2838.7 | 2882.8 | 2917.3 | 2936.3 | 2998.6 | 3024.4 | 3072.5 | 3094.2 | 3119.9 | 3149.8 | 3186.4 |
| 55°   | 3334.1 | 3402.5 | 3460.8 | 3494.7 | 3589.6 | 3623.5 | 3685.8 | 3717.6 | 3700.0 | 3738.0 | 3803.7 |
| 57.5° | 4766.7 | 4850.7 | 4920.5 | 4966.6 | 5063.5 | 5110.9 | 5114.3 | 5233.6 | 5163.1 | 5232.9 | 5243.1 |
| 60°   | 6853.2 | 6919.6 | 6902.6 | 6903.3 | 6872.8 | 6828.8 | 6913.5 | 6784.7 | 6838.9 | 6842.3 | 6721.0 |
| 62.5° | 8252.5 | 8150.9 | 8103.5 | 8024.9 | 7933.4 | 7862.9 | 7814.8 | 7711.1 | 7628.4 | 7562.7 | 7434.6 |
| 65°   | 8581.9 | 8405.7 | 8249.8 | 8102.8 | 7967.9 | 7874.4 | 7772.8 | 7661.6 | 7532.2 | 7423.1 | 7298.4 |
| 67.5° | 8263.4 | 8016.7 | 7785.6 | 7591.8 | 7407.5 | 7284.2 | 7137.1 | 7031.4 | 6868.8 | 6725.1 | 6630.2 |
| 70°   | 7339.7 | 6998.2 | 6728.5 | 6604.5 | 6421.5 | 6156.5 | 6016.3 | 5884.1 | 5784.5 | 5654.4 | 5596.8 |
| 72.5° | 5148.9 | 4727.4 | 4519.3 | 4527.4 | 4341.8 | 4152.0 | 4156.8 | 4076.1 | 3947.4 | 3943.3 | 3923.7 |
| 75°   | 1892.0 | 1721.3 | 1601.3 | 1606.7 | 1537.6 | 1463.7 | 1484.1 | 1505.8 | 1463.7 | 1549.1 | 1417.0 |
| 77.5° | 300.9  | 292.7  | 290.0  | 283.9  | 269.0  | 279.9  | 272.4  | 286.7  | 288.7  | 304.3  | 305.6  |
| 80°   | 191.8  | 183.6  | 181.6  | 178.2  | 177.5  | 177.5  | 176.2  | 176.2  | 176.2  | 176.9  | 175.5  |
| 82.5° | 128.1  | 123.3  | 122.7  | 120.6  | 124.0  | 124.7  | 125.4  | 130.8  | 135.5  | 136.9  | 142.3  |
| 85°   | 69.8   | 66.4   | 66.4   | 65.1   | 67.8   | 68.4   | 74.5   | 82.0   | 91.5   | 95.6   | 104.4  |
| 87.5° | 35.2   | 37.3   | 36.6   | 37.9   | 40.0   | 44.7   | 49.5   | 54.2   | 59.6   | 67.1   | 73.2   |
| 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: RDG-F04-LED-E-U-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°   | 125°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  |
| 2.5°  | 939.2  | 938.6  | 938.6  | 937.2  | 937.2  | 936.5  | 935.2  | 933.8  | 927.7  | 920.3  | 915.5  |
| 5°    | 953.5  | 952.1  | 951.4  | 950.1  | 948.0  | 948.0  | 946.0  | 943.3  | 931.8  | 919.6  | 912.1  |
| 7.5°  | 982.6  | 981.9  | 979.9  | 977.2  | 974.5  | 971.8  | 970.4  | 969.1  | 951.4  | 939.9  | 934.5  |
| 10°   | 1024.6 | 1023.9 | 1019.2 | 1018.5 | 1014.5 | 1015.1 | 1011.7 | 1009.0 | 997.5  | 984.6  | 977.2  |
| 12.5° | 1078.2 | 1080.9 | 1078.2 | 1072.1 | 1073.4 | 1071.4 | 1068.0 | 1064.6 | 1054.4 | 1044.3 | 1032.8 |
| 15°   | 1144.6 | 1141.2 | 1138.5 | 1143.9 | 1139.1 | 1138.5 | 1140.5 | 1141.2 | 1129.0 | 1118.1 | 1101.9 |
| 17.5° | 1227.2 | 1227.2 | 1225.9 | 1227.2 | 1224.5 | 1226.6 | 1225.2 | 1226.6 | 1221.1 | 1206.2 | 1182.5 |
| 20°   | 1321.4 | 1326.9 | 1326.9 | 1324.8 | 1324.1 | 1328.2 | 1330.2 | 1322.8 | 1324.1 | 1311.3 | 1268.6 |
| 22.5° | 1431.2 | 1435.3 | 1436.6 | 1434.6 | 1435.3 | 1440.7 | 1444.1 | 1438.7 | 1450.9 | 1429.9 | 1364.1 |
| 25°   | 1544.4 | 1550.5 | 1547.8 | 1548.5 | 1553.9 | 1560.0 | 1566.1 | 1560.7 | 1584.4 | 1551.8 | 1465.8 |
| 27.5° | 1656.2 | 1661.6 | 1660.3 | 1664.3 | 1673.1 | 1681.3 | 1688.1 | 1686.0 | 1725.3 | 1682.6 | 1572.9 |
| 30°   | 1761.9 | 1774.8 | 1777.5 | 1782.2 | 1793.1 | 1806.6 | 1817.5 | 1816.8 | 1867.6 | 1810.0 | 1660.3 |
| 32.5° | 1892.0 | 1906.3 | 1911.7 | 1921.8 | 1942.9 | 1952.3 | 1965.9 | 1967.2 | 2018.1 | 1921.8 | 1734.1 |
| 35°   | 2042.5 | 2056.7 | 2068.2 | 2075.7 | 2099.4 | 2110.9 | 2124.5 | 2130.6 | 2164.4 | 2026.2 | 1785.6 |
| 37.5° | 2159.0 | 2171.2 | 2193.6 | 2209.2 | 2230.2 | 2253.2 | 2268.8 | 2276.3 | 2295.2 | 2115.7 | 1809.4 |
| 40°   | 2286.4 | 2312.9 | 2334.5 | 2358.3 | 2381.3 | 2399.6 | 2413.8 | 2425.3 | 2417.9 | 2190.2 | 1799.2 |
| 42.5° | 2447.7 | 2475.5 | 2504.6 | 2525.0 | 2537.2 | 2561.6 | 2568.3 | 2576.5 | 2515.5 | 2224.1 | 1753.1 |
| 45°   | 2615.8 | 2638.1 | 2662.5 | 2677.4 | 2693.7 | 2705.9 | 2707.9 | 2708.6 | 2588.0 | 2204.4 | 1669.8 |
| 47.5° | 2777.7 | 2796.7 | 2813.6 | 2821.8 | 2829.9 | 2830.6 | 2827.2 | 2821.8 | 2626.6 | 2138.0 | 1569.5 |
| 50°   | 2955.3 | 2966.8 | 2974.3 | 2974.9 | 2982.4 | 2968.2 | 2958.7 | 2933.6 | 2622.5 | 2036.4 | 1463.7 |
| 52.5° | 3210.8 | 3208.0 | 3198.6 | 3197.9 | 3174.2 | 3147.1 | 3129.4 | 3093.5 | 2594.8 | 1926.6 | 1341.8 |
| 55°   | 3797.6 | 3771.9 | 3801.7 | 3725.8 | 3662.8 | 3620.7 | 3521.1 | 3448.6 | 2622.5 | 1824.3 | 1201.5 |
| 57.5° | 5207.8 | 5119.7 | 5129.2 | 5006.6 | 4872.4 | 4621.0 | 4472.6 | 4272.0 | 2840.8 | 1767.3 | 1024.6 |
| 60°   | 6695.3 | 6550.3 | 6413.4 | 6195.8 | 5910.6 | 5591.4 | 5304.0 | 4990.3 | 3057.6 | 1697.5 | 836.2  |
| 62.5° | 7309.2 | 7122.2 | 6884.4 | 6577.4 | 6210.8 | 5815.0 | 5417.9 | 5060.1 | 2938.3 | 1487.5 | 602.4  |
| 65°   | 7111.4 | 6887.7 | 6634.3 | 6233.8 | 5817.7 | 5357.6 | 4922.5 | 4544.4 | 2447.0 | 1087.6 | 363.9  |
| 67.5° | 6408.6 | 6216.2 | 5903.8 | 5525.6 | 5010.6 | 4549.1 | 4118.8 | 3769.1 | 1803.9 | 672.2  | 208.7  |
| 70°   | 5396.2 | 5129.9 | 4862.9 | 4499.7 | 3956.9 | 3521.8 | 3121.3 | 2812.3 | 1144.6 | 332.1  | 153.8  |
| 72.5° | 3724.4 | 3513.7 | 3300.2 | 2974.9 | 2569.7 | 2270.2 | 1925.9 | 1671.8 | 599.1  | 178.9  | 141.6  |
| 75°   | 1450.9 | 1427.8 | 1403.4 | 1255.7 | 1118.1 | 895.9  | 786.8  | 709.5  | 249.4  | 155.2  | 139.6  |
| 77.5° | 318.5  | 337.5  | 348.3  | 330.0  | 314.4  | 280.6  | 268.4  | 239.9  | 166.7  | 159.3  | 138.2  |
| 80°   | 175.5  | 175.5  | 175.5  | 177.5  | 174.2  | 174.2  | 172.1  | 168.7  | 155.9  | 159.3  | 135.5  |
| 82.5° | 143.7  | 145.7  | 148.4  | 149.1  | 148.4  | 149.1  | 147.7  | 147.1  | 152.5  | 159.9  | 128.8  |
| 85°   | 109.8  | 116.6  | 120.6  | 126.0  | 131.5  | 134.9  | 136.2  | 136.9  | 140.3  | 151.8  | 112.5  |
| 87.5° | 77.9   | 83.4   | 92.2   | 93.5   | 99.6   | 107.1  | 109.8  | 113.8  | 111.8  | 115.2  | 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    |



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CATALOG NUMBER: RDG-F04-LED-E-U-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 941.3  | 941.3  | 941.3  | 941.3  | 941.3  |
| 2.5°  | 911.5  | 906.0  | 904.0  | 903.3  | 902.0  |
| 5°    | 906.0  | 902.6  | 899.9  | 897.9  | 899.3  |
| 7.5°  | 930.4  | 928.4  | 923.7  | 922.3  | 924.3  |
| 10°   | 973.8  | 969.1  | 962.3  | 963.0  | 962.3  |
| 12.5° | 1028.0 | 1015.1 | 1004.3 | 999.5  | 996.2  |
| 15°   | 1083.6 | 1058.5 | 1036.1 | 1026.0 | 1021.9 |
| 17.5° | 1145.2 | 1102.6 | 1068.0 | 1049.7 | 1046.3 |
| 20°   | 1210.3 | 1151.3 | 1106.6 | 1084.9 | 1081.5 |
| 22.5° | 1285.5 | 1204.2 | 1147.3 | 1117.5 | 1112.7 |
| 25°   | 1358.7 | 1251.6 | 1175.7 | 1139.1 | 1133.0 |
| 27.5° | 1425.1 | 1287.6 | 1192.7 | 1149.3 | 1143.2 |
| 30°   | 1480.7 | 1316.0 | 1206.9 | 1157.4 | 1150.7 |
| 32.5° | 1517.3 | 1331.6 | 1211.7 | 1158.1 | 1150.0 |
| 35°   | 1528.8 | 1321.4 | 1191.3 | 1129.7 | 1122.9 |
| 37.5° | 1504.4 | 1280.1 | 1137.1 | 1067.3 | 1061.9 |
| 40°   | 1448.8 | 1203.5 | 1051.7 | 979.2  | 972.4  |
| 42.5° | 1362.1 | 1106.6 | 952.8  | 876.2  | 870.1  |
| 45°   | 1265.9 | 1002.9 | 847.8  | 771.2  | 765.1  |
| 47.5° | 1160.8 | 893.2  | 737.3  | 666.8  | 657.3  |
| 50°   | 1045.6 | 773.9  | 624.8  | 555.7  | 546.9  |
| 52.5° | 910.8  | 643.8  | 505.5  | 443.2  | 437.8  |
| 55°   | 752.9  | 513.0  | 402.5  | 357.1  | 351.7  |
| 57.5° | 585.5  | 390.3  | 319.9  | 297.5  | 288.7  |
| 60°   | 424.9  | 296.8  | 254.8  | 244.0  | 239.2  |
| 62.5° | 288.7  | 221.6  | 205.3  | 201.9  | 198.6  |
| 65°   | 195.8  | 173.5  | 168.7  | 169.4  | 167.4  |
| 67.5° | 154.5  | 145.7  | 143.0  | 144.3  | 143.7  |
| 70°   | 135.5  | 128.8  | 128.1  | 129.4  | 128.8  |
| 72.5° | 128.1  | 119.3  | 120.6  | 122.7  | 122.0  |
| 75°   | 124.7  | 115.2  | 117.9  | 119.3  | 115.9  |
| 77.5° | 121.3  | 109.1  | 117.2  | 119.9  | 113.2  |
| 80°   | 116.6  | 103.7  | 122.7  | 121.3  | 108.4  |
| 82.5° | 106.4  | 91.5   | 119.9  | 109.8  | 97.6   |
| 85°   | 86.7   | 68.4   | 134.9  | 96.9   | 71.2   |
| 87.5° | 55.6   | 41.3   | 93.5   | 73.9   | 47.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)