

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: P141015

Luminaire Tested: **CEM-F04-LED-E-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141015
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33690)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F04-LED-E-U-SL2
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9503.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

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

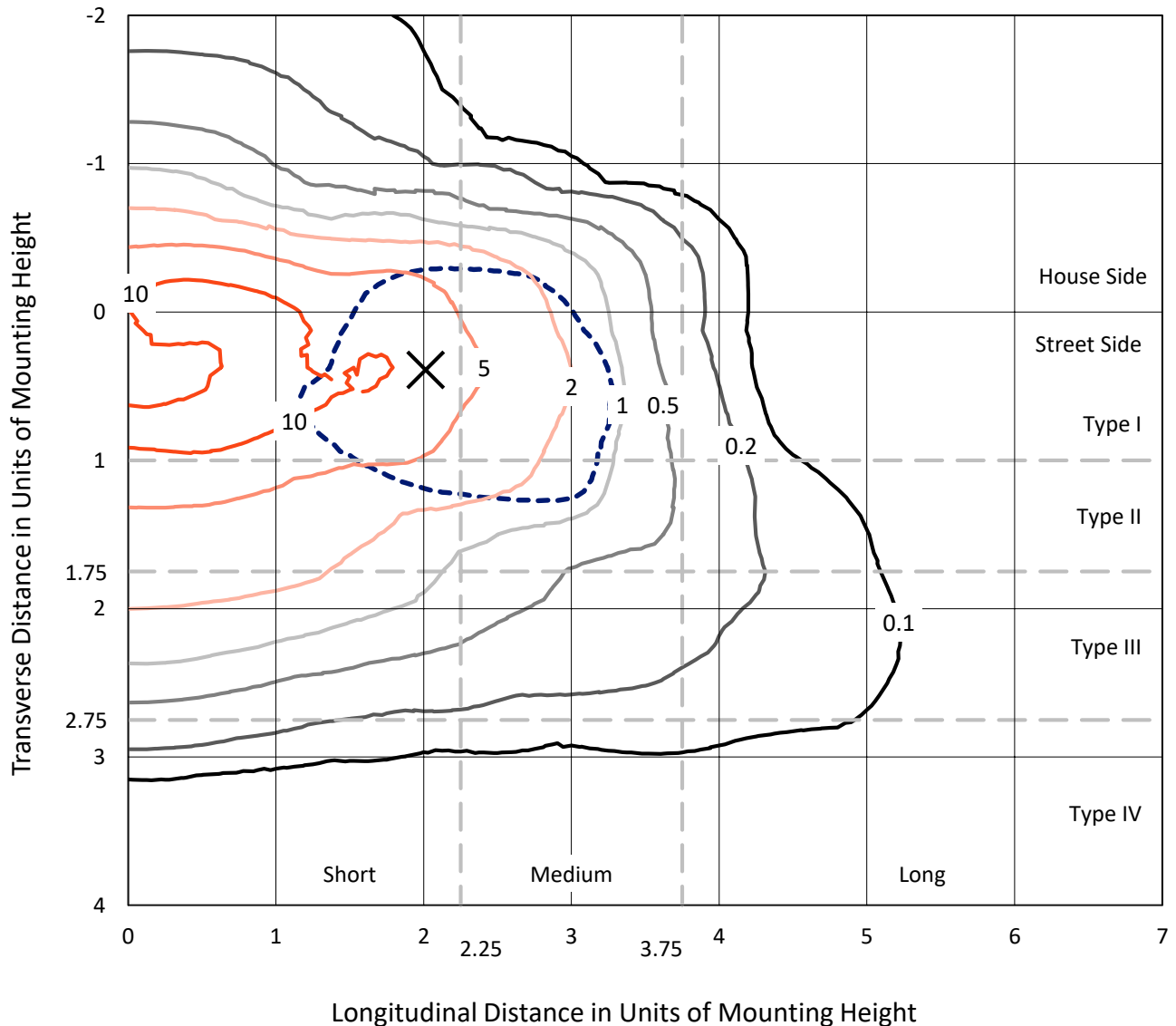


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

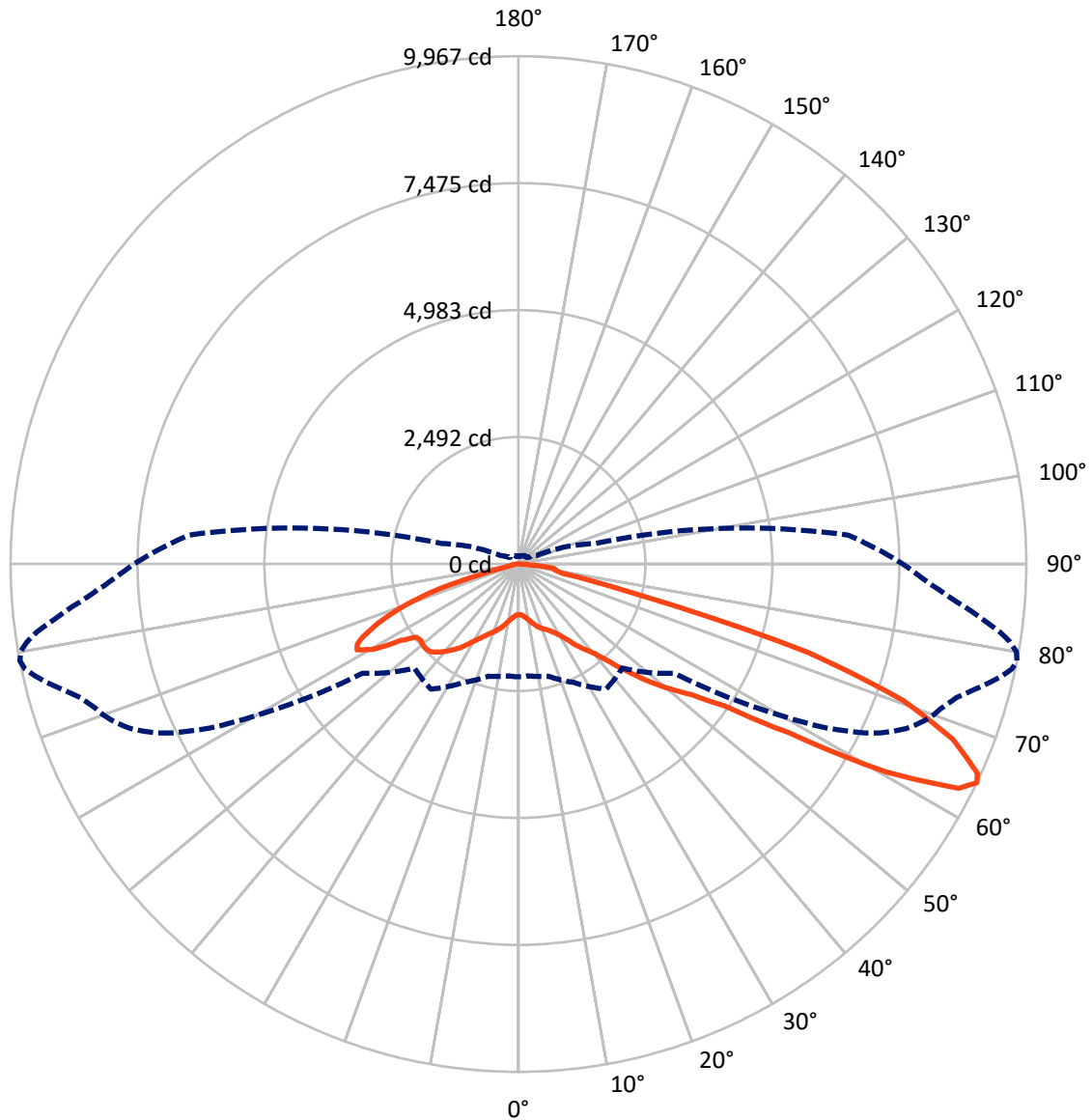


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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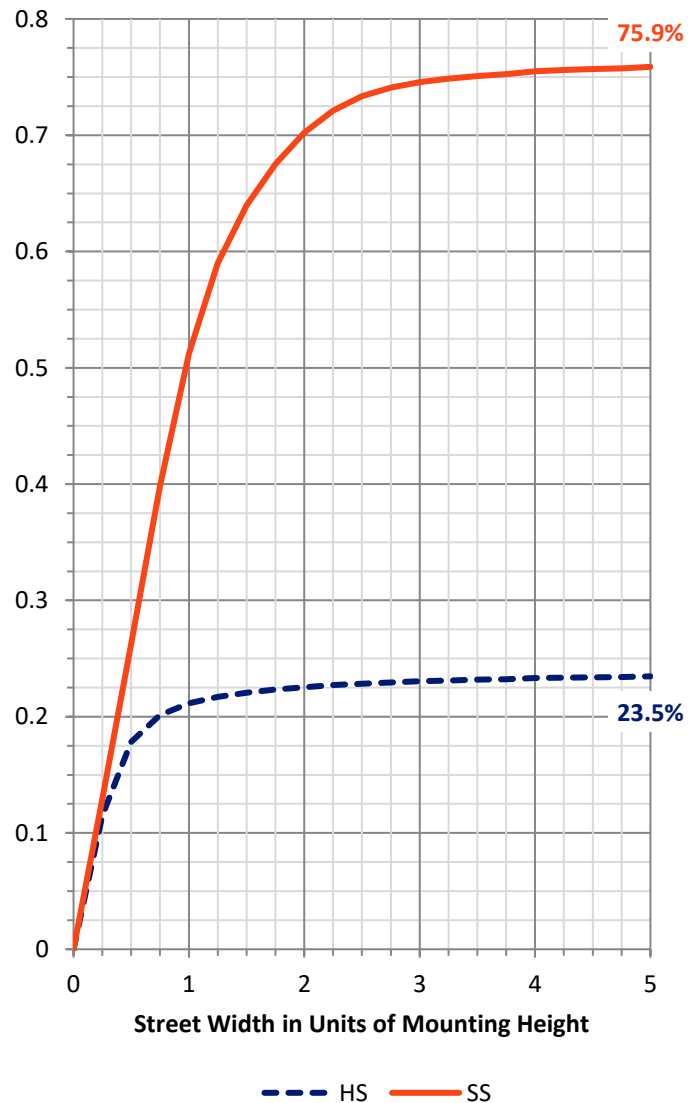
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2265.2 | 0.0 | 2265.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 7237.9 | 0.0 | 7237.9 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 9503.1 | 0.0 | 9503.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.5 | 1.0 |
| 10°-20° | 319.2 | 3.4 |
| 20°-30° | 548.0 | 5.8 |
| 30°-40° | 916.0 | 9.6 |
| 40°-50° | 1569.2 | 16.5 |
| 50°-60° | 2116.7 | 22.3 |
| 60°-70° | 2677.6 | 28.2 |
| 70°-80° | 1068.4 | 11.2 |
| 80°-90° | 189.5 | 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° | 9503.1 | 100.0 |
| 0°-180° | 9503.1 | 100.0 |



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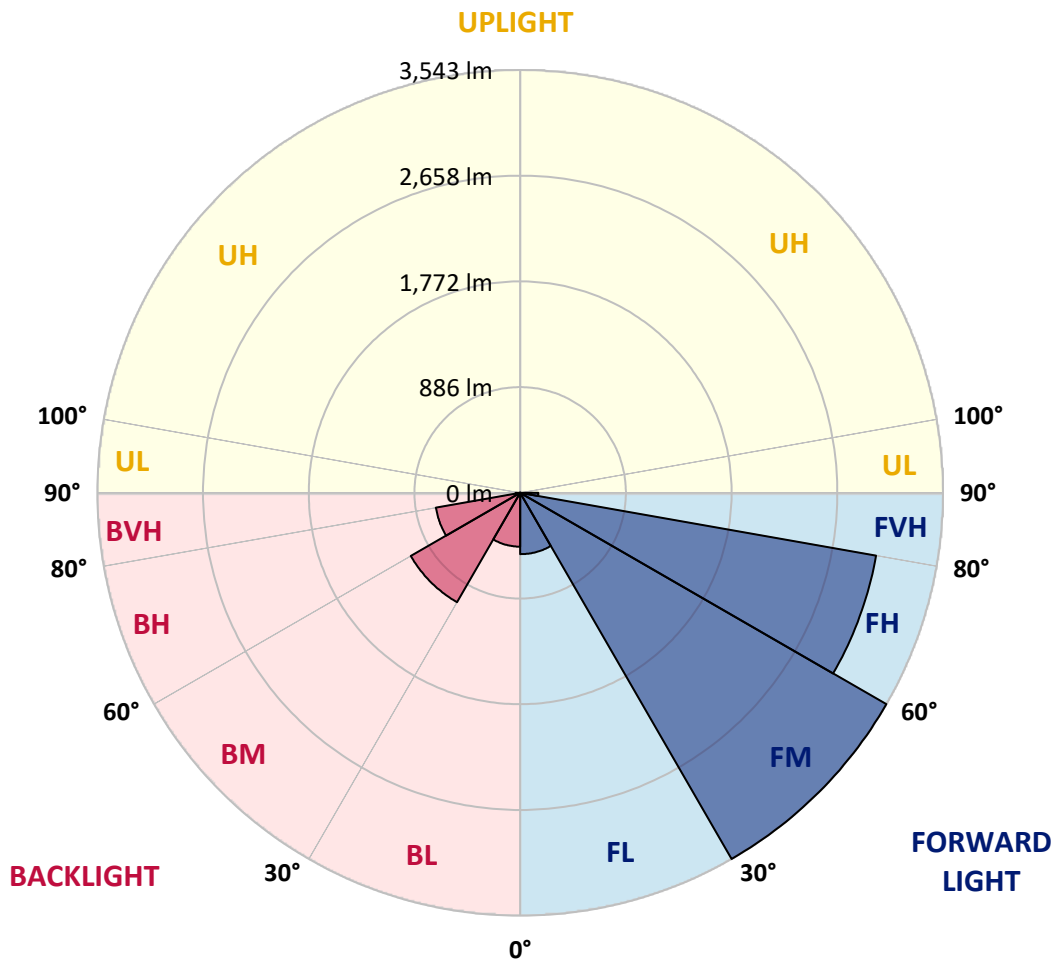
CATALOG NUMBER: CEM-F04-LED-E-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 514.3 | 5.4 | | | |
| FM (30°-60°) | 3543.4 | 37.3 | | | |
| FH (60°-80°) | 3028.4 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 151.8 | 1.6 | | | G2/225 |
| BL (0°-30°) | 451.4 | 4.7 | B1/500 | | |
| BM (30°-60°) | 1058.5 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 717.5 | 7.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 37.7 | 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-G2

Type II Short





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CATALOG NUMBER: CEM-F04-LED-E-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 |
| 2.5° | 989.5 | 990.6 | 989.5 | 992.8 | 995.0 | 998.3 | 998.3 | 998.3 | 998.3 | 998.3 | 998.3 |
| 5° | 988.4 | 989.5 | 988.4 | 993.9 | 999.4 | 1006.0 | 1012.6 | 1014.8 | 1014.8 | 1015.9 | 1017.0 |
| 7.5° | 998.3 | 999.4 | 998.3 | 1004.9 | 1012.6 | 1023.7 | 1035.8 | 1042.4 | 1043.5 | 1044.6 | 1046.8 |
| 10° | 1029.2 | 1027.0 | 1022.6 | 1029.2 | 1036.9 | 1053.4 | 1067.7 | 1078.7 | 1082.0 | 1083.1 | 1087.5 |
| 12.5° | 1069.9 | 1068.8 | 1061.1 | 1057.8 | 1062.2 | 1080.9 | 1107.3 | 1122.7 | 1126.0 | 1127.1 | 1131.5 |
| 15° | 1100.7 | 1097.4 | 1090.8 | 1086.4 | 1094.1 | 1113.9 | 1149.1 | 1168.9 | 1175.5 | 1176.6 | 1184.4 |
| 17.5° | 1120.5 | 1118.3 | 1107.3 | 1104.0 | 1116.1 | 1146.9 | 1191.0 | 1215.2 | 1219.6 | 1222.9 | 1231.7 |
| 20° | 1153.5 | 1146.9 | 1130.4 | 1116.1 | 1126.0 | 1173.3 | 1225.1 | 1250.4 | 1257.0 | 1260.3 | 1268.0 |
| 22.5° | 1197.6 | 1192.1 | 1172.2 | 1135.9 | 1135.9 | 1188.8 | 1255.9 | 1284.5 | 1290.0 | 1296.6 | 1305.4 |
| 25° | 1273.5 | 1269.1 | 1230.6 | 1168.9 | 1153.5 | 1204.2 | 1284.5 | 1323.0 | 1328.5 | 1336.2 | 1349.5 |
| 27.5° | 1351.7 | 1346.2 | 1303.2 | 1220.7 | 1184.4 | 1232.8 | 1326.3 | 1372.6 | 1380.3 | 1389.1 | 1404.5 |
| 30° | 1451.8 | 1441.9 | 1399.0 | 1303.2 | 1244.9 | 1279.0 | 1392.4 | 1450.7 | 1459.5 | 1470.5 | 1491.4 |
| 32.5° | 1676.4 | 1680.8 | 1602.6 | 1501.4 | 1399.0 | 1384.7 | 1494.8 | 1566.3 | 1579.5 | 1593.8 | 1622.4 |
| 35° | 2041.8 | 2024.2 | 1995.6 | 1892.1 | 1778.7 | 1666.5 | 1694.0 | 1771.0 | 1785.3 | 1789.7 | 1801.8 |
| 37.5° | 2275.1 | 2285.1 | 2308.2 | 2308.2 | 2223.4 | 2176.1 | 2097.9 | 2060.5 | 2063.8 | 2068.2 | 2058.3 |
| 40° | 2405.0 | 2425.9 | 2505.2 | 2612.0 | 2689.0 | 2731.9 | 2718.7 | 2543.7 | 2522.8 | 2495.3 | 2407.2 |
| 42.5° | 2498.6 | 2519.5 | 2654.9 | 2859.6 | 3051.1 | 3203.0 | 3286.7 | 3149.1 | 3133.7 | 3067.7 | 2962.0 |
| 45° | 2555.8 | 2572.3 | 2735.2 | 3025.8 | 3315.3 | 3574.0 | 3802.9 | 3754.5 | 3750.1 | 3693.9 | 3555.3 |
| 47.5° | 2544.8 | 2559.1 | 2728.6 | 3078.7 | 3458.4 | 3809.5 | 4163.9 | 4252.0 | 4256.4 | 4242.1 | 4157.3 |
| 50° | 2381.9 | 2416.0 | 2584.4 | 2962.0 | 3379.1 | 3900.9 | 4397.3 | 4627.3 | 4633.9 | 4647.2 | 4614.1 |
| 52.5° | 2236.6 | 2263.0 | 2413.8 | 2751.7 | 3152.4 | 3810.6 | 4537.1 | 4902.5 | 4958.7 | 4990.6 | 5052.2 |
| 55° | 2177.2 | 2192.6 | 2308.2 | 2595.5 | 2965.3 | 3569.6 | 4584.4 | 5101.7 | 5201.9 | 5262.4 | 5403.3 |
| 57.5° | 2166.2 | 2178.3 | 2267.4 | 2486.5 | 2840.9 | 3320.8 | 4569.0 | 5369.2 | 5527.7 | 5642.2 | 5915.2 |
| 60° | 2239.9 | 2250.9 | 2313.7 | 2497.5 | 2755.1 | 3139.2 | 4428.1 | 5721.4 | 5943.8 | 6252.0 | 6692.3 |
| 62.5° | 2295.0 | 2300.5 | 2377.5 | 2635.1 | 2849.7 | 2962.0 | 4069.3 | 5968.0 | 6363.1 | 6755.0 | 7409.9 |
| 64° | 2214.6 | 2203.6 | 2279.5 | 2563.5 | 2996.1 | 2886.0 | 3736.9 | 5955.9 | 6419.3 | 6854.1 | 7562.9 |
| 65° | 2096.8 | 2104.5 | 2172.8 | 2423.7 | 2970.8 | 2882.7 | 3518.9 | 5823.8 | 6304.8 | 6766.0 | 7491.4 |
| 67.5° | 1629.0 | 1658.8 | 1677.5 | 1907.5 | 2433.6 | 2976.3 | 2946.6 | 4982.9 | 5466.1 | 5906.4 | 6763.8 |
| 70° | 876.2 | 872.9 | 914.7 | 1096.3 | 1692.9 | 2526.1 | 2528.3 | 3512.3 | 4047.3 | 4594.3 | 5447.4 |
| 72.5° | 322.5 | 339.0 | 372.0 | 500.8 | 879.5 | 1822.8 | 2317.0 | 2435.8 | 2674.7 | 3109.5 | 4024.2 |
| 75° | 184.9 | 187.1 | 193.7 | 235.5 | 423.8 | 1006.0 | 2153.0 | 2155.2 | 2172.8 | 2244.3 | 2741.8 |
| 77.5° | 144.2 | 139.8 | 143.1 | 153.0 | 231.1 | 529.4 | 1727.0 | 2047.3 | 2045.1 | 2034.1 | 2106.7 |
| 80° | 107.9 | 112.3 | 118.9 | 118.9 | 143.1 | 284.0 | 981.8 | 1821.7 | 1883.3 | 1929.5 | 1955.9 |
| 82.5° | 87.0 | 90.3 | 106.8 | 106.8 | 104.6 | 160.7 | 463.4 | 1349.5 | 1543.2 | 1668.7 | 1863.5 |
| 85° | 56.1 | 59.4 | 90.3 | 89.2 | 84.8 | 94.7 | 242.2 | 452.4 | 487.6 | 594.4 | 845.3 |
| 87.5° | 15.4 | 18.7 | 41.8 | 36.3 | 44.0 | 35.2 | 90.3 | 137.6 | 169.5 | 191.5 | 241.1 |
| 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: CEM-F04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 |
| 2.5° | 998.3 | 998.3 | 998.3 | 999.4 | 999.4 | 999.4 | 999.4 | 999.4 | 1000.5 | 998.3 | 998.3 |
| 5° | 1018.1 | 1017.0 | 1018.1 | 1018.1 | 1021.4 | 1020.3 | 1021.4 | 1021.4 | 1020.3 | 1022.6 | 1022.6 |
| 7.5° | 1050.1 | 1047.9 | 1050.1 | 1051.2 | 1052.3 | 1056.7 | 1056.7 | 1058.9 | 1060.0 | 1061.1 | 1058.9 |
| 10° | 1088.6 | 1091.9 | 1093.0 | 1093.0 | 1098.5 | 1100.7 | 1100.7 | 1104.0 | 1107.3 | 1109.5 | 1108.4 |
| 12.5° | 1135.9 | 1138.1 | 1139.2 | 1145.8 | 1146.9 | 1150.2 | 1155.7 | 1159.0 | 1159.0 | 1164.5 | 1167.8 |
| 15° | 1188.8 | 1191.0 | 1197.6 | 1199.8 | 1204.2 | 1209.7 | 1213.0 | 1216.3 | 1216.3 | 1226.2 | 1229.5 |
| 17.5° | 1233.9 | 1238.3 | 1242.7 | 1246.0 | 1253.7 | 1259.2 | 1264.7 | 1268.0 | 1273.5 | 1277.9 | 1285.6 |
| 20° | 1272.4 | 1277.9 | 1283.4 | 1290.0 | 1295.5 | 1301.0 | 1307.6 | 1312.0 | 1318.6 | 1325.2 | 1332.9 |
| 22.5° | 1309.8 | 1316.4 | 1323.0 | 1328.5 | 1336.2 | 1341.8 | 1347.3 | 1355.0 | 1359.4 | 1366.0 | 1374.8 |
| 25° | 1350.6 | 1361.6 | 1368.2 | 1375.9 | 1383.6 | 1391.3 | 1397.9 | 1404.5 | 1411.1 | 1419.9 | 1428.7 |
| 27.5° | 1415.5 | 1421.0 | 1429.8 | 1434.2 | 1447.4 | 1456.2 | 1465.0 | 1466.1 | 1474.9 | 1491.4 | 1493.6 |
| 30° | 1500.3 | 1510.2 | 1515.7 | 1531.1 | 1533.3 | 1536.6 | 1550.9 | 1560.8 | 1571.8 | 1585.0 | 1590.5 |
| 32.5° | 1627.9 | 1636.7 | 1644.4 | 1648.8 | 1661.0 | 1680.8 | 1683.0 | 1691.8 | 1710.5 | 1713.8 | 1733.6 |
| 35° | 1815.1 | 1817.3 | 1829.4 | 1836.0 | 1851.4 | 1862.4 | 1867.9 | 1875.6 | 1885.5 | 1908.6 | 1914.1 |
| 37.5° | 2039.6 | 2058.3 | 2042.9 | 2027.5 | 2055.0 | 2051.7 | 2058.3 | 2049.5 | 2075.9 | 2077.0 | 2086.9 |
| 40° | 2388.5 | 2380.8 | 2347.8 | 2312.6 | 2296.1 | 2286.2 | 2266.3 | 2261.9 | 2276.2 | 2269.6 | 2272.9 |
| 42.5° | 2902.5 | 2829.9 | 2773.8 | 2731.9 | 2680.2 | 2624.1 | 2592.1 | 2543.7 | 2543.7 | 2529.4 | 2542.6 |
| 45° | 3506.8 | 3425.4 | 3320.8 | 3221.7 | 3157.9 | 3084.2 | 3008.2 | 2957.6 | 2905.8 | 2867.3 | 2901.4 |
| 47.5° | 4102.3 | 4047.3 | 3930.6 | 3839.2 | 3711.6 | 3601.5 | 3481.5 | 3376.9 | 3315.3 | 3270.2 | 3276.8 |
| 50° | 4619.6 | 4569.0 | 4508.5 | 4385.2 | 4288.3 | 4176.1 | 4049.5 | 3911.9 | 3778.7 | 3724.8 | 3678.5 |
| 52.5° | 5055.5 | 5037.9 | 4986.2 | 4928.9 | 4849.7 | 4729.7 | 4649.4 | 4518.4 | 4361.0 | 4247.6 | 4199.2 |
| 55° | 5440.8 | 5471.6 | 5499.1 | 5487.0 | 5458.4 | 5443.0 | 5343.9 | 5254.7 | 5148.0 | 5115.0 | 5014.8 |
| 57.5° | 6047.2 | 6136.4 | 6242.1 | 6300.4 | 6357.6 | 6488.6 | 6520.5 | 6486.4 | 6499.6 | 6490.8 | 6438.0 |
| 60° | 6905.8 | 7121.5 | 7306.4 | 7453.9 | 7611.3 | 7764.3 | 7944.9 | 8063.7 | 8113.3 | 8304.8 | 8301.5 |
| 62.5° | 7642.2 | 7929.4 | 8166.1 | 8343.3 | 8527.1 | 8665.8 | 8782.5 | 8901.4 | 9046.7 | 9185.3 | 9360.4 |
| 64° | 7842.5 | 8068.1 | 8260.8 | 8419.3 | 8551.3 | 8664.7 | 8753.9 | 8862.8 | 8982.8 | 9162.2 | 9355.9 |
| 65° | 7739.0 | 7993.3 | 8133.1 | 8276.2 | 8395.0 | 8483.1 | 8574.5 | 8673.5 | 8825.4 | 8967.4 | 9174.3 |
| 67.5° | 7035.7 | 7228.3 | 7430.8 | 7564.0 | 7678.5 | 7730.2 | 7816.1 | 7898.6 | 7983.4 | 8126.5 | 8385.1 |
| 70° | 5932.8 | 6148.5 | 6440.2 | 6565.7 | 6684.6 | 6703.3 | 6783.6 | 6845.3 | 6901.4 | 7091.8 | 7219.5 |
| 72.5° | 4451.2 | 4869.5 | 5155.7 | 5375.8 | 5400.0 | 5493.6 | 5526.6 | 5551.9 | 5615.8 | 5651.0 | 5689.5 |
| 75° | 3067.7 | 3444.1 | 3687.3 | 3771.0 | 3873.4 | 3823.8 | 3766.6 | 3565.2 | 3566.3 | 3395.7 | 3201.9 |
| 77.5° | 2158.5 | 2216.8 | 2219.0 | 2220.1 | 2084.7 | 2005.5 | 1915.2 | 1799.6 | 1754.5 | 1664.3 | 1541.0 |
| 80° | 1957.0 | 1950.4 | 1909.7 | 1860.2 | 1786.4 | 1680.8 | 1571.8 | 1495.9 | 1436.4 | 1369.3 | 1281.2 |
| 82.5° | 1888.8 | 1904.2 | 1874.5 | 1832.7 | 1789.7 | 1685.2 | 1559.7 | 1440.8 | 1342.9 | 1236.1 | 1128.2 |
| 85° | 920.2 | 946.6 | 1032.5 | 1088.6 | 1101.8 | 1036.9 | 947.7 | 839.8 | 736.4 | 619.7 | 565.8 |
| 87.5° | 276.3 | 296.1 | 302.7 | 321.4 | 344.5 | 313.7 | 276.3 | 247.7 | 199.2 | 172.8 | 135.4 |
| 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° | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 |
| 2.5° | 998.3 | 999.4 | 999.4 | 998.3 | 999.4 | 999.4 | 1000.5 | 999.4 | 999.4 | 999.4 | 998.3 |
| 5° | 1020.3 | 1024.8 | 1023.7 | 1023.7 | 1025.9 | 1025.9 | 1024.8 | 1027.0 | 1025.9 | 1025.9 | 1024.8 |
| 7.5° | 1062.2 | 1062.2 | 1065.5 | 1066.6 | 1064.4 | 1064.4 | 1066.6 | 1067.7 | 1069.9 | 1071.0 | 1071.0 |
| 10° | 1110.6 | 1116.1 | 1116.1 | 1117.2 | 1118.3 | 1121.6 | 1122.7 | 1122.7 | 1124.9 | 1124.9 | 1127.1 |
| 12.5° | 1170.0 | 1172.2 | 1174.4 | 1180.0 | 1181.1 | 1181.1 | 1186.6 | 1185.5 | 1185.5 | 1191.0 | 1192.1 |
| 15° | 1233.9 | 1237.2 | 1242.7 | 1244.9 | 1247.1 | 1252.6 | 1255.9 | 1259.2 | 1258.1 | 1265.8 | 1268.0 |
| 17.5° | 1290.0 | 1293.3 | 1299.9 | 1305.4 | 1308.7 | 1312.0 | 1314.2 | 1318.6 | 1325.2 | 1330.7 | 1331.8 |
| 20° | 1335.1 | 1339.6 | 1347.3 | 1353.9 | 1359.4 | 1362.7 | 1371.5 | 1375.9 | 1378.1 | 1382.5 | 1388.0 |
| 22.5° | 1379.2 | 1386.9 | 1394.6 | 1396.8 | 1408.9 | 1412.2 | 1418.8 | 1425.4 | 1429.8 | 1439.7 | 1443.0 |
| 25° | 1434.2 | 1440.8 | 1450.7 | 1457.3 | 1465.0 | 1471.6 | 1478.2 | 1483.7 | 1493.6 | 1502.5 | 1506.9 |
| 27.5° | 1506.9 | 1512.4 | 1520.1 | 1532.2 | 1538.8 | 1543.2 | 1555.3 | 1566.3 | 1570.7 | 1579.5 | 1587.2 |
| 30° | 1602.6 | 1608.1 | 1619.1 | 1631.2 | 1636.7 | 1651.0 | 1659.9 | 1667.6 | 1676.4 | 1688.5 | 1699.5 |
| 32.5° | 1742.4 | 1749.0 | 1758.9 | 1774.3 | 1774.3 | 1784.2 | 1802.9 | 1819.5 | 1826.1 | 1840.4 | 1848.1 |
| 35° | 1926.2 | 1927.3 | 1938.3 | 1961.4 | 1968.1 | 1965.9 | 1983.5 | 1998.9 | 2003.3 | 2025.3 | 2039.6 |
| 37.5° | 2104.5 | 2107.8 | 2121.0 | 2129.9 | 2142.0 | 2150.8 | 2162.9 | 2186.0 | 2186.0 | 2217.9 | 2231.1 |
| 40° | 2289.5 | 2306.0 | 2308.2 | 2310.4 | 2330.2 | 2365.4 | 2377.5 | 2400.6 | 2421.5 | 2452.4 | 2466.7 |
| 42.5° | 2558.0 | 2575.6 | 2596.6 | 2620.8 | 2650.5 | 2670.3 | 2693.4 | 2726.4 | 2735.2 | 2773.8 | 2783.7 |
| 45° | 2925.7 | 2946.6 | 3002.7 | 3008.2 | 3061.0 | 3087.5 | 3126.0 | 3170.0 | 3181.0 | 3206.3 | 3193.1 |
| 47.5° | 3292.2 | 3316.4 | 3378.0 | 3441.9 | 3490.3 | 3536.5 | 3547.6 | 3566.3 | 3582.8 | 3567.4 | 3571.8 |
| 50° | 3698.4 | 3733.6 | 3791.9 | 3848.0 | 3884.4 | 3937.2 | 3937.2 | 3941.6 | 3926.2 | 3900.9 | 3860.2 |
| 52.5° | 4173.9 | 4179.4 | 4216.8 | 4260.8 | 4293.8 | 4304.8 | 4304.8 | 4279.5 | 4242.1 | 4201.4 | 4122.1 |
| 55° | 4967.5 | 4906.9 | 4917.9 | 4917.9 | 4893.7 | 4873.9 | 4858.5 | 4796.9 | 4723.1 | 4649.4 | 4576.7 |
| 57.5° | 6397.3 | 6454.5 | 6283.9 | 6237.7 | 6239.9 | 6089.1 | 6027.4 | 5921.8 | 5842.5 | 5710.4 | 5599.3 |
| 60° | 8436.9 | 8397.2 | 8341.1 | 8288.3 | 8292.7 | 8093.4 | 7953.7 | 7796.3 | 7658.7 | 7368.1 | 7244.8 |
| 62.5° | 9516.7 | 9657.5 | 9737.9 | 9697.2 | 9603.6 | 9479.2 | 9250.3 | 9011.4 | 8769.3 | 8522.7 | 8301.5 |
| 64° | 9556.3 | 9742.3 | 9900.8 | 9966.8 | 9922.8 | 9765.4 | 9532.1 | 9234.9 | 8946.5 | 8655.9 | 8388.4 |
| 65° | 9364.8 | 9600.3 | 9805.0 | 9897.5 | 9899.7 | 9761.0 | 9527.7 | 9228.3 | 8920.1 | 8583.3 | 8304.8 |
| 67.5° | 8570.0 | 8840.8 | 9042.2 | 9197.4 | 9330.6 | 9260.2 | 9098.4 | 8780.3 | 8488.6 | 8106.7 | 7801.8 |
| 70° | 7378.0 | 7545.3 | 7772.0 | 7998.8 | 8105.6 | 8122.1 | 8061.5 | 7900.8 | 7559.6 | 7249.2 | 6856.3 |
| 72.5° | 5686.2 | 5946.0 | 5812.8 | 5952.6 | 6041.7 | 5954.8 | 5965.8 | 5691.7 | 5581.6 | 5308.7 | 5032.4 |
| 75° | 3011.5 | 3020.3 | 2963.1 | 2547.0 | 2495.3 | 2304.9 | 2516.2 | 2138.7 | 2009.9 | 1891.0 | 1738.0 |
| 77.5° | 1396.8 | 1216.3 | 1047.9 | 875.1 | 715.5 | 626.3 | 488.7 | 430.4 | 387.4 | 341.2 | 351.1 |
| 80° | 1167.8 | 1029.2 | 881.7 | 730.9 | 614.2 | 496.4 | 398.5 | 309.3 | 247.7 | 208.0 | 189.3 |
| 82.5° | 1033.6 | 911.4 | 809.0 | 716.6 | 632.9 | 517.3 | 424.9 | 328.0 | 252.1 | 190.4 | 147.5 |
| 85° | 466.7 | 365.4 | 332.4 | 262.0 | 222.3 | 189.3 | 150.8 | 124.4 | 102.4 | 87.0 | 68.2 |
| 87.5° | 109.0 | 74.8 | 63.8 | 60.5 | 52.8 | 49.5 | 41.8 | 44.0 | 36.3 | 28.6 | 29.7 |
| 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: P141015

CATALOG NUMBER: CEM-F04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 | 993.9 |
| 2.5° | 998.3 | 998.3 | 999.4 | 999.4 | 1000.5 | 1002.7 | 1006.0 | 1002.7 | 1002.7 | 1002.7 | 1003.8 |
| 5° | 1027.0 | 1028.1 | 1027.0 | 1027.0 | 1029.2 | 1032.5 | 1033.6 | 1027.0 | 1023.7 | 1020.3 | 1015.9 |
| 7.5° | 1068.8 | 1073.2 | 1072.1 | 1072.1 | 1074.3 | 1074.3 | 1072.1 | 1062.2 | 1052.3 | 1036.9 | 1023.7 |
| 10° | 1127.1 | 1129.3 | 1129.3 | 1129.3 | 1132.6 | 1134.8 | 1124.9 | 1102.9 | 1076.5 | 1049.0 | 1024.8 |
| 12.5° | 1196.5 | 1195.4 | 1198.7 | 1202.0 | 1199.8 | 1199.8 | 1181.1 | 1146.9 | 1104.0 | 1058.9 | 1017.0 |
| 15° | 1269.1 | 1270.2 | 1270.2 | 1275.7 | 1276.8 | 1272.4 | 1242.7 | 1189.9 | 1123.8 | 1055.6 | 988.4 |
| 17.5° | 1337.4 | 1339.6 | 1340.7 | 1345.1 | 1350.6 | 1338.5 | 1295.5 | 1224.0 | 1127.1 | 1024.8 | 934.5 |
| 20° | 1394.6 | 1397.9 | 1401.2 | 1404.5 | 1410.0 | 1401.2 | 1344.0 | 1240.5 | 1109.5 | 975.2 | 871.8 |
| 22.5° | 1446.3 | 1451.8 | 1454.0 | 1459.5 | 1468.3 | 1457.3 | 1388.0 | 1240.5 | 1069.9 | 921.3 | 801.3 |
| 25° | 1509.1 | 1515.7 | 1526.7 | 1528.9 | 1544.3 | 1532.2 | 1423.2 | 1231.7 | 1024.8 | 853.0 | 725.4 |
| 27.5° | 1591.6 | 1598.2 | 1608.1 | 1613.6 | 1632.3 | 1615.8 | 1449.6 | 1208.6 | 968.6 | 779.3 | 651.6 |
| 30° | 1700.6 | 1707.2 | 1719.3 | 1724.8 | 1758.9 | 1703.9 | 1467.2 | 1173.3 | 903.7 | 693.4 | 566.9 |
| 32.5° | 1852.5 | 1870.1 | 1869.0 | 1883.3 | 1914.1 | 1801.8 | 1474.9 | 1123.8 | 822.2 | 606.5 | 487.6 |
| 35° | 2051.7 | 2063.8 | 2074.8 | 2094.6 | 2108.9 | 1906.4 | 1469.4 | 1058.9 | 721.0 | 516.2 | 418.3 |
| 37.5° | 2243.2 | 2264.1 | 2271.8 | 2285.1 | 2281.8 | 1976.9 | 1447.4 | 957.6 | 610.9 | 435.9 | 370.9 |
| 40° | 2482.1 | 2494.2 | 2518.4 | 2530.5 | 2472.2 | 2044.0 | 1395.7 | 822.2 | 500.8 | 383.0 | 340.1 |
| 42.5° | 2800.2 | 2815.6 | 2803.5 | 2800.2 | 2687.9 | 2081.4 | 1296.6 | 686.8 | 419.4 | 344.5 | 314.8 |
| 45° | 3186.5 | 3193.1 | 3156.8 | 3132.6 | 2936.7 | 2078.1 | 1152.4 | 559.2 | 363.2 | 315.9 | 292.8 |
| 47.5° | 3535.4 | 3522.2 | 3474.9 | 3438.6 | 3152.4 | 2001.1 | 971.9 | 461.2 | 333.5 | 292.8 | 275.2 |
| 50° | 3823.8 | 3765.5 | 3714.9 | 3668.6 | 3325.2 | 1883.3 | 799.1 | 388.5 | 304.9 | 274.1 | 257.6 |
| 52.5° | 4084.7 | 4005.4 | 3946.0 | 3867.9 | 3482.6 | 1728.1 | 661.5 | 339.0 | 276.3 | 255.4 | 238.9 |
| 55° | 4471.0 | 4378.6 | 4302.6 | 4225.6 | 3761.1 | 1607.0 | 572.4 | 301.6 | 247.7 | 235.5 | 220.1 |
| 57.5° | 5579.4 | 5331.8 | 5264.6 | 5195.3 | 4507.4 | 1580.6 | 520.6 | 271.9 | 225.6 | 216.8 | 206.9 |
| 60° | 7095.1 | 6934.4 | 6826.5 | 6657.0 | 5746.8 | 1665.4 | 482.1 | 249.9 | 210.2 | 204.7 | 195.9 |
| 62.5° | 8083.5 | 7889.8 | 7711.5 | 7538.7 | 6474.3 | 1663.2 | 434.8 | 235.5 | 201.4 | 200.3 | 187.1 |
| 64° | 8146.3 | 7929.4 | 7730.2 | 7544.2 | 6497.4 | 1554.2 | 391.8 | 225.6 | 201.4 | 201.4 | 181.6 |
| 65° | 8042.8 | 7824.9 | 7619.0 | 7425.3 | 6365.3 | 1470.5 | 363.2 | 221.2 | 204.7 | 203.6 | 178.3 |
| 67.5° | 7515.6 | 7296.5 | 7065.4 | 6857.4 | 5806.2 | 1152.4 | 287.3 | 213.5 | 222.3 | 214.6 | 175.0 |
| 70° | 6583.3 | 6334.5 | 6160.6 | 6010.9 | 4984.0 | 804.6 | 227.8 | 217.9 | 243.3 | 227.8 | 183.8 |
| 72.5° | 4771.5 | 4569.0 | 4566.8 | 4397.3 | 3773.2 | 510.7 | 183.8 | 216.8 | 242.2 | 225.6 | 190.4 |
| 75° | 1853.6 | 1589.4 | 1580.6 | 1640.0 | 1604.8 | 276.3 | 158.5 | 191.5 | 198.1 | 188.2 | 168.4 |
| 77.5° | 317.0 | 311.5 | 308.2 | 324.7 | 357.7 | 153.0 | 145.3 | 162.9 | 147.5 | 133.2 | 139.8 |
| 80° | 176.1 | 168.4 | 166.2 | 166.2 | 156.3 | 125.5 | 128.8 | 129.9 | 106.8 | 99.1 | 115.6 |
| 82.5° | 122.2 | 113.4 | 109.0 | 105.7 | 102.4 | 112.3 | 114.5 | 102.4 | 77.0 | 75.9 | 107.9 |
| 85° | 59.4 | 56.1 | 55.0 | 55.0 | 62.7 | 105.7 | 94.7 | 79.3 | 51.7 | 51.7 | 116.7 |
| 87.5° | 25.3 | 25.3 | 22.0 | 22.0 | 34.1 | 67.1 | 42.9 | 33.0 | 20.9 | 24.2 | 47.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: CEM-F04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|--------|--------|--------|
| 0° | 993.9 | 993.9 | 993.9 |
| 2.5° | 1002.7 | 1004.9 | 1003.8 |
| 5° | 1010.4 | 1010.4 | 1008.2 |
| 7.5° | 1009.3 | 1004.9 | 1002.7 |
| 10° | 1002.7 | 990.6 | 989.5 |
| 12.5° | 985.1 | 965.3 | 959.8 |
| 15° | 934.5 | 908.1 | 901.5 |
| 17.5° | 870.7 | 839.8 | 831.0 |
| 20° | 798.0 | 762.8 | 750.7 |
| 22.5° | 727.6 | 686.8 | 674.7 |
| 25° | 650.5 | 609.8 | 603.2 |
| 27.5° | 565.8 | 527.2 | 517.3 |
| 30° | 487.6 | 454.6 | 446.9 |
| 32.5° | 417.2 | 394.1 | 394.1 |
| 35° | 370.9 | 351.1 | 351.1 |
| 37.5° | 334.6 | 325.8 | 324.7 |
| 40° | 310.4 | 302.7 | 301.6 |
| 42.5° | 291.7 | 282.9 | 281.8 |
| 45° | 271.9 | 263.1 | 263.1 |
| 47.5° | 253.2 | 243.3 | 244.4 |
| 50° | 234.4 | 226.7 | 226.7 |
| 52.5° | 219.0 | 211.3 | 210.2 |
| 55° | 204.7 | 197.0 | 195.9 |
| 57.5° | 191.5 | 182.7 | 181.6 |
| 60° | 178.3 | 169.5 | 167.3 |
| 62.5° | 167.3 | 157.4 | 155.2 |
| 64° | 160.7 | 150.8 | 148.6 |
| 65° | 157.4 | 146.4 | 145.3 |
| 67.5° | 154.1 | 139.8 | 138.7 |
| 70° | 166.2 | 137.6 | 132.1 |
| 72.5° | 167.3 | 134.3 | 127.7 |
| 75° | 158.5 | 127.7 | 122.2 |
| 77.5° | 139.8 | 116.7 | 110.1 |
| 80° | 134.3 | 91.4 | 80.4 |
| 82.5° | 123.3 | 74.8 | 62.7 |
| 85° | 101.3 | 48.4 | 45.1 |
| 87.5° | 58.3 | 31.9 | 23.1 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)