

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: P141163

Luminaire Tested: **CEM-F03-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141163
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F03-LED-E-U-SL3-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6048.8 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

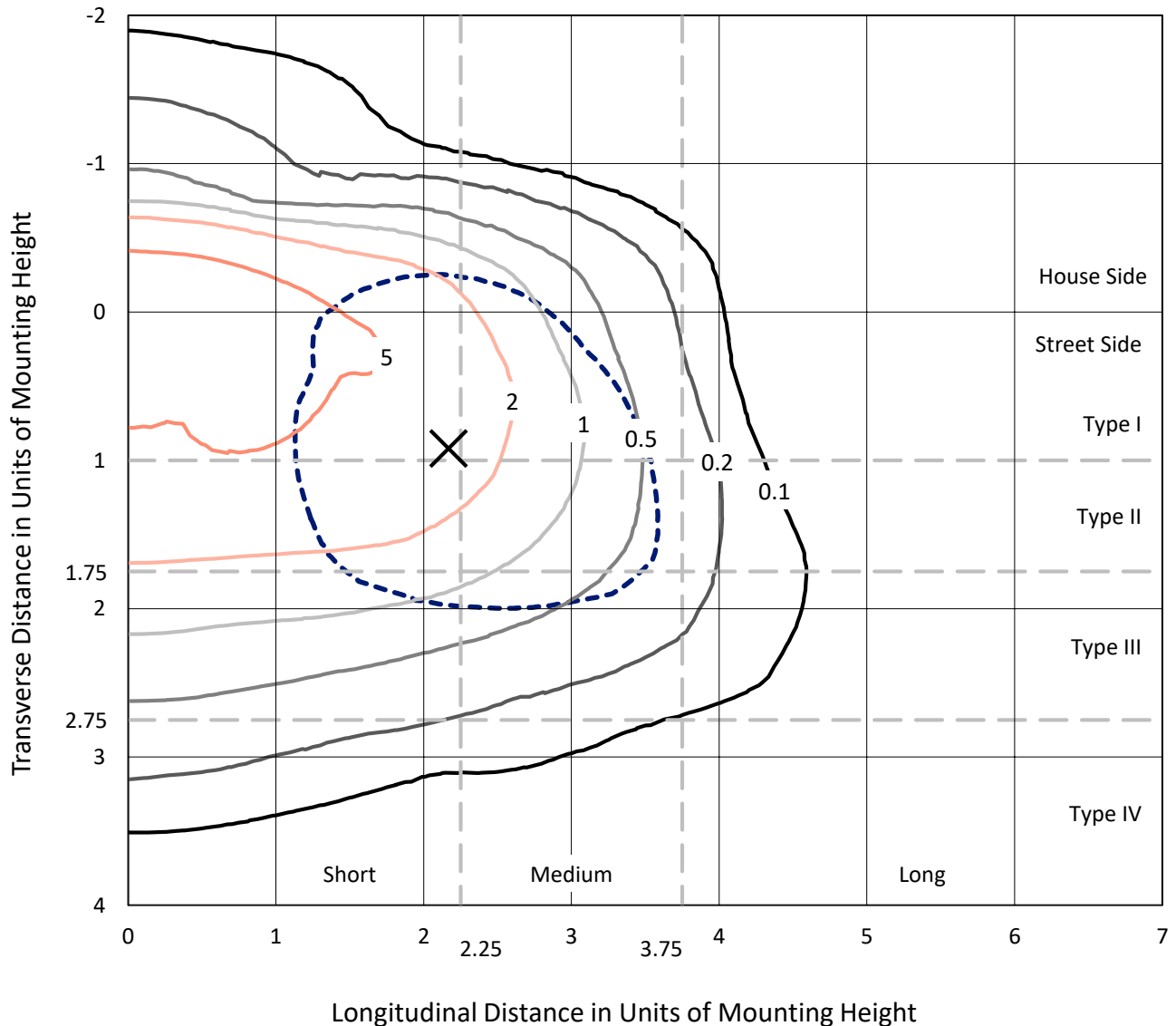
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

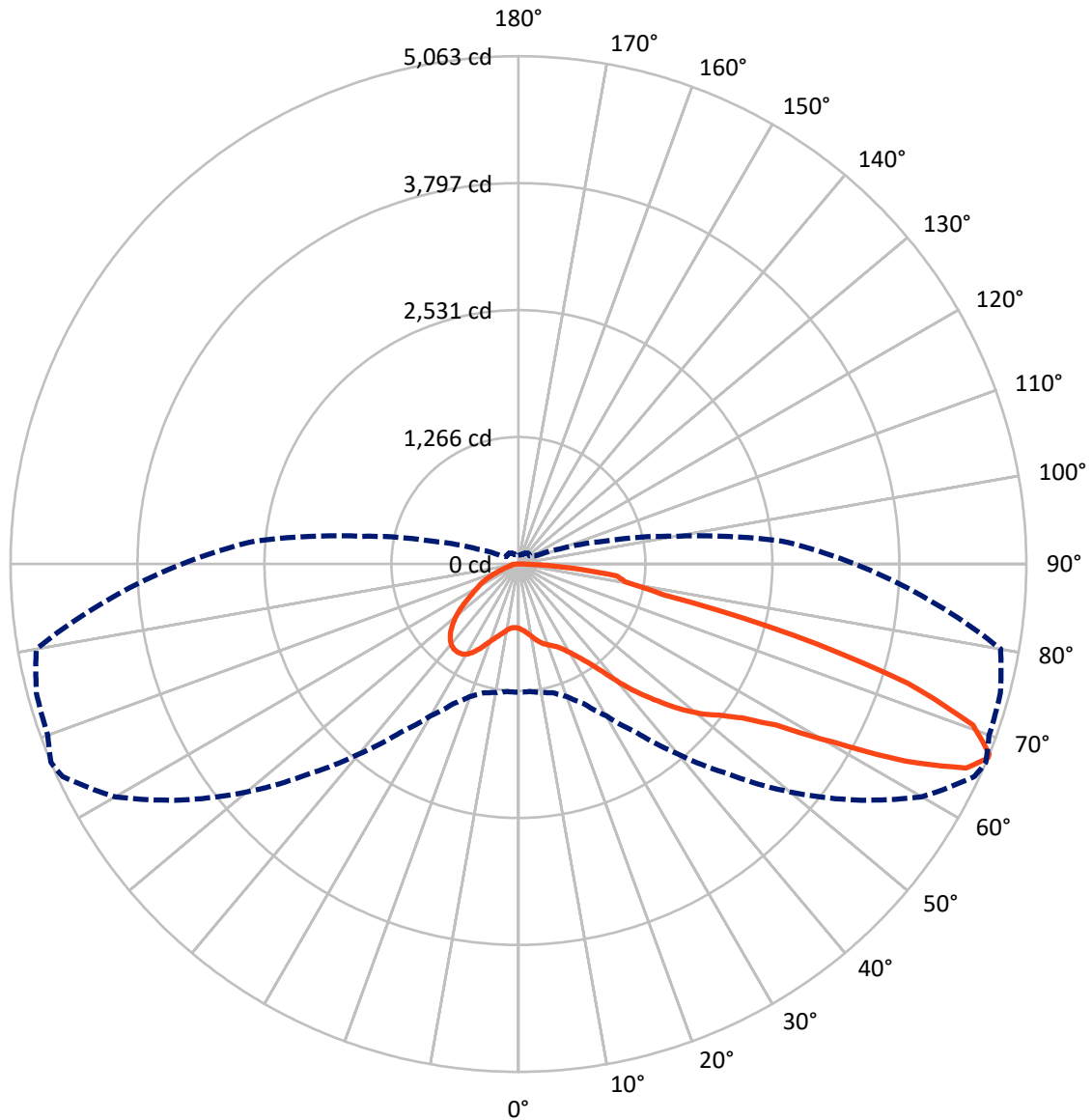
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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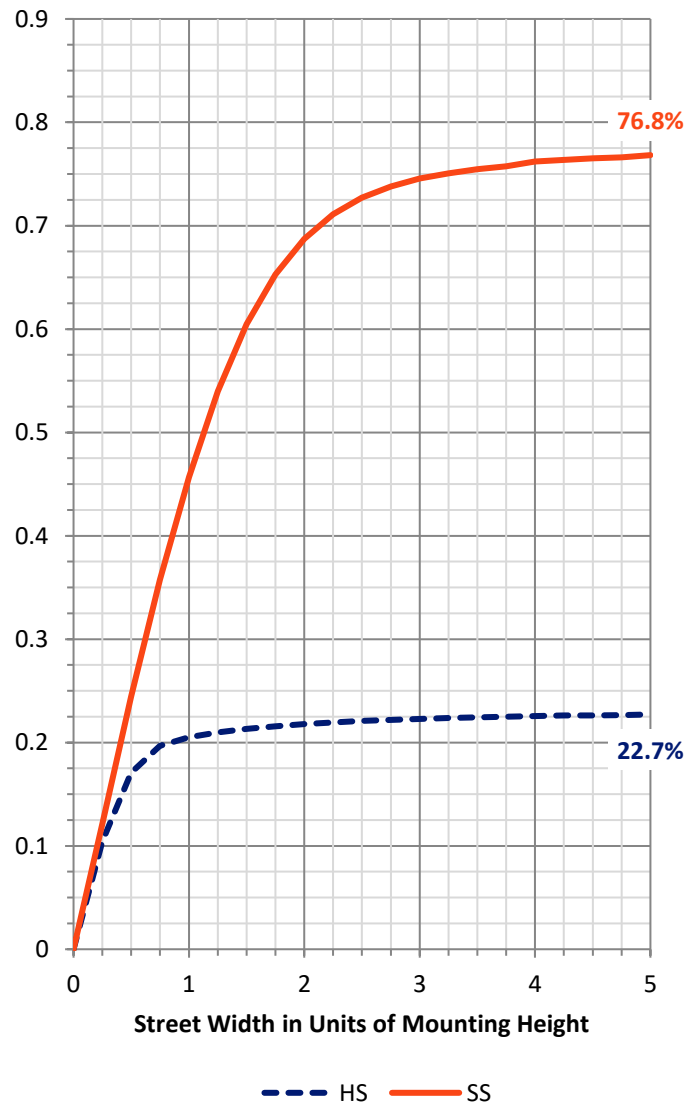
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1391.6 | 0.0 | 1391.6 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 4657.3 | 0.0 | 4657.3 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 6048.8 | 0.0 | 6048.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.3 | 1.1 |
| 10°-20° | 222.4 | 3.7 |
| 20°-30° | 395.9 | 6.5 |
| 30°-40° | 569.2 | 9.4 |
| 40°-50° | 867.5 | 14.3 |
| 50°-60° | 1267.2 | 20.9 |
| 60°-70° | 1707.4 | 28.2 |
| 70°-80° | 838.3 | 13.9 |
| 80°-90° | 116.6 | 1.9 |
| 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° | 6048.8 | 100.0 |
| 0°-180° | 6048.8 | 100.0 |



REPORT NUMBER: P141163

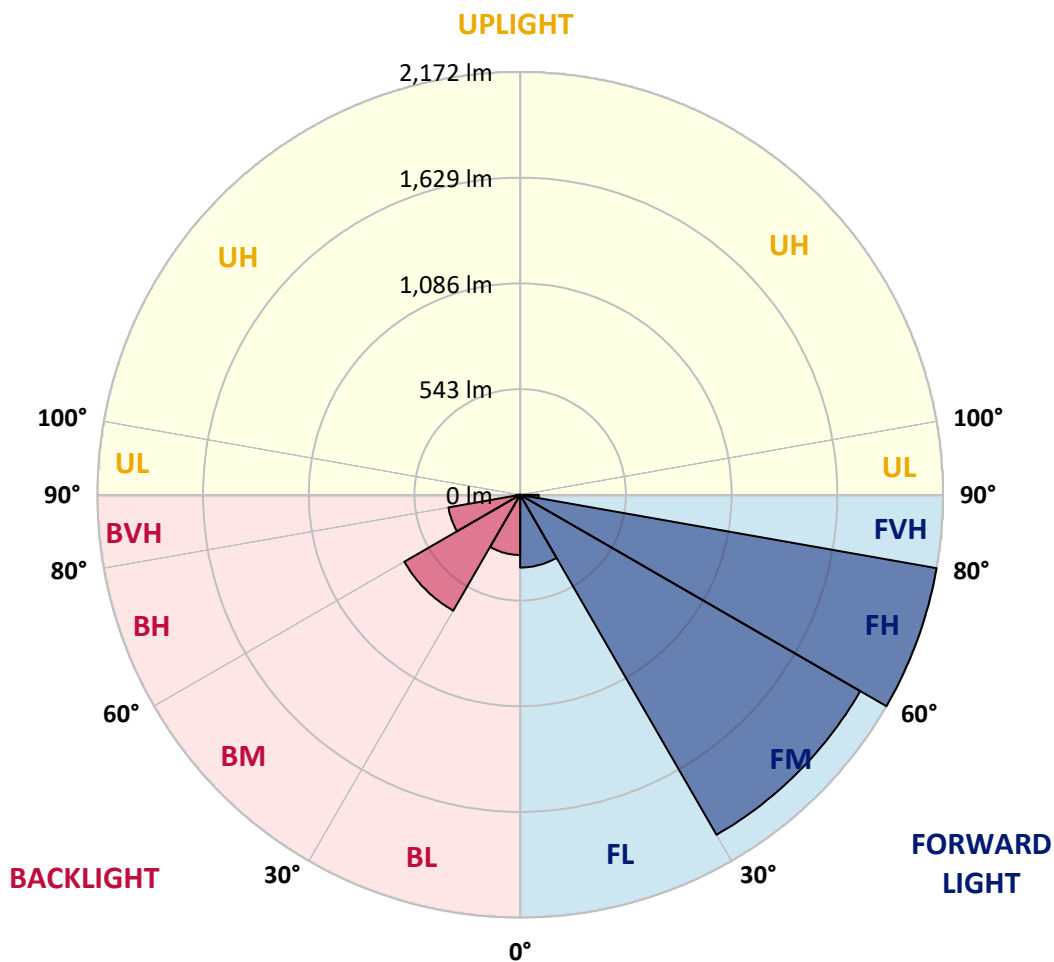
CATALOG NUMBER: CEM-F03-LED-E-U-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 373.6 | 6.2 | | | |
| FM | (30°-60°) | 2016.5 | 33.3 | | | |
| FH | (60°-80°) | 2171.5 | 35.9 | | | G2/5000 |
| FVH | (80°-90°) | 95.6 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 309.0 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 687.3 | 11.4 | B1/1000 | | |
| BH | (60°-80°) | 374.2 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P141163

CATALOG NUMBER: CEM-F03-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 |
| 2.5° | 675.1 | 671.7 | 674.4 | 673.7 | 671.7 | 668.9 | 670.3 | 668.2 | 666.8 | 664.7 | 662.6 |
| 5° | 719.0 | 716.9 | 715.5 | 713.5 | 712.1 | 710.0 | 708.6 | 705.1 | 700.2 | 696.7 | 693.9 |
| 7.5° | 762.2 | 761.5 | 759.4 | 756.7 | 751.1 | 749.7 | 744.8 | 741.3 | 737.1 | 730.2 | 724.6 |
| 10° | 813.1 | 812.4 | 808.9 | 804.7 | 798.5 | 792.2 | 786.6 | 778.3 | 769.9 | 763.6 | 758.7 |
| 12.5° | 874.4 | 870.9 | 864.0 | 858.4 | 851.4 | 841.7 | 832.6 | 822.8 | 811.0 | 801.2 | 795.7 |
| 15° | 935.7 | 931.5 | 926.0 | 918.3 | 907.8 | 894.6 | 881.4 | 866.7 | 848.6 | 836.1 | 828.4 |
| 17.5° | 985.9 | 983.1 | 976.8 | 966.4 | 955.9 | 939.9 | 922.5 | 902.3 | 880.0 | 861.2 | 849.3 |
| 20° | 1022.1 | 1019.3 | 1009.6 | 997.0 | 983.1 | 965.0 | 946.2 | 923.9 | 897.4 | 874.4 | 861.2 |
| 22.5° | 1037.4 | 1033.3 | 1022.1 | 1005.4 | 986.6 | 964.3 | 944.1 | 925.3 | 900.9 | 883.5 | 869.5 |
| 25° | 1042.3 | 1037.4 | 1022.8 | 1001.9 | 977.5 | 949.0 | 926.0 | 911.3 | 896.7 | 890.4 | 885.6 |
| 27.5° | 1039.5 | 1035.3 | 1019.3 | 993.5 | 960.8 | 927.4 | 903.0 | 892.5 | 893.2 | 905.1 | 910.6 |
| 30° | 1029.8 | 1024.9 | 1010.3 | 981.7 | 946.9 | 910.6 | 889.0 | 885.6 | 901.6 | 931.5 | 953.8 |
| 32.5° | 1013.8 | 1010.3 | 998.4 | 974.0 | 942.7 | 911.3 | 896.0 | 903.7 | 931.5 | 978.2 | 1016.5 |
| 35° | 1009.6 | 1008.9 | 1003.3 | 990.1 | 967.1 | 946.9 | 940.6 | 962.2 | 1008.2 | 1072.3 | 1121.0 |
| 37.5° | 1008.9 | 1012.4 | 1015.1 | 1015.1 | 1010.3 | 1008.9 | 1027.7 | 1057.6 | 1125.9 | 1206.0 | 1285.5 |
| 40° | 1022.8 | 1029.1 | 1043.0 | 1061.1 | 1078.5 | 1103.6 | 1141.9 | 1198.4 | 1269.5 | 1367.0 | 1465.9 |
| 42.5° | 1066.0 | 1079.9 | 1103.6 | 1135.0 | 1180.3 | 1227.0 | 1289.0 | 1359.3 | 1450.6 | 1548.8 | 1647.1 |
| 45° | 1150.3 | 1170.5 | 1187.9 | 1237.4 | 1297.3 | 1352.4 | 1433.2 | 1525.9 | 1626.2 | 1749.5 | 1855.4 |
| 47.5° | 1261.8 | 1276.4 | 1312.6 | 1364.9 | 1438.1 | 1516.8 | 1594.8 | 1675.6 | 1796.2 | 1925.1 | 2053.3 |
| 50° | 1373.3 | 1384.4 | 1422.7 | 1484.0 | 1580.2 | 1666.6 | 1755.8 | 1835.9 | 1939.7 | 2076.3 | 2201.7 |
| 52.5° | 1456.2 | 1471.5 | 1504.9 | 1564.9 | 1672.9 | 1771.1 | 1872.8 | 1961.3 | 2078.4 | 2201.0 | 2332.0 |
| 55° | 1513.3 | 1523.1 | 1553.7 | 1612.2 | 1714.0 | 1826.1 | 1941.1 | 2049.8 | 2189.1 | 2327.8 | 2458.1 |
| 57.5° | 1522.4 | 1532.1 | 1560.0 | 1611.5 | 1710.5 | 1828.2 | 1959.9 | 2093.0 | 2261.6 | 2444.8 | 2615.5 |
| 60° | 1511.9 | 1519.6 | 1544.0 | 1586.5 | 1679.8 | 1808.7 | 1965.5 | 2132.7 | 2340.3 | 2576.5 | 2820.4 |
| 62.5° | 1465.2 | 1472.9 | 1495.2 | 1530.0 | 1612.9 | 1752.3 | 1948.8 | 2191.2 | 2452.5 | 2749.3 | 3106.7 |
| 65° | 1377.4 | 1382.3 | 1403.2 | 1431.1 | 1514.7 | 1656.1 | 1872.8 | 2179.4 | 2541.0 | 2945.1 | 3407.7 |
| 67° | 1277.8 | 1275.7 | 1299.4 | 1327.3 | 1403.9 | 1534.2 | 1746.0 | 2047.7 | 2470.6 | 2960.4 | 3533.8 |
| 67.5° | 1247.2 | 1252.7 | 1275.7 | 1295.2 | 1369.8 | 1495.9 | 1698.6 | 1996.8 | 2410.7 | 2925.6 | 3531.8 |
| 70° | 1029.8 | 1040.2 | 1052.8 | 1065.3 | 1130.8 | 1223.5 | 1372.6 | 1661.0 | 1995.5 | 2483.2 | 3206.4 |
| 72.5° | 706.5 | 685.6 | 694.6 | 690.5 | 710.7 | 769.2 | 873.0 | 1126.6 | 1392.1 | 1811.5 | 2380.0 |
| 75° | 358.1 | 381.1 | 378.3 | 395.7 | 424.3 | 461.2 | 509.3 | 604.1 | 812.4 | 1059.0 | 1472.9 |
| 77.5° | 200.7 | 195.1 | 214.6 | 218.8 | 235.5 | 274.5 | 359.5 | 484.2 | 579.7 | 680.7 | 832.6 |
| 80° | 91.3 | 101.0 | 107.3 | 97.5 | 101.0 | 109.4 | 142.1 | 223.0 | 374.8 | 570.6 | 656.3 |
| 82.5° | 50.9 | 54.3 | 63.4 | 64.1 | 66.9 | 69.0 | 74.6 | 86.4 | 116.4 | 235.5 | 463.3 |
| 85° | 32.0 | 33.4 | 42.5 | 46.7 | 48.8 | 48.8 | 48.8 | 51.6 | 59.2 | 69.7 | 119.8 |
| 87.5° | 11.8 | 12.5 | 19.5 | 25.8 | 26.5 | 25.1 | 23.7 | 27.2 | 25.1 | 25.8 | 39.0 |
| 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: P141163

CATALOG NUMBER: CEM-F03-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 |
| 2.5° | 661.2 | 658.4 | 655.6 | 654.9 | 652.8 | 651.4 | 648.0 | 645.2 | 642.4 | 640.3 | 638.2 |
| 5° | 687.7 | 682.1 | 677.2 | 675.1 | 672.3 | 668.9 | 661.9 | 657.0 | 652.8 | 648.7 | 644.5 |
| 7.5° | 717.6 | 710.7 | 703.7 | 700.9 | 696.7 | 690.5 | 682.8 | 677.2 | 670.3 | 664.0 | 658.4 |
| 10° | 751.1 | 743.4 | 737.8 | 735.1 | 731.6 | 722.5 | 717.6 | 707.9 | 700.2 | 691.9 | 684.9 |
| 12.5° | 787.3 | 783.8 | 776.2 | 773.4 | 769.9 | 763.6 | 756.7 | 748.3 | 738.5 | 729.5 | 721.1 |
| 15° | 820.1 | 814.5 | 809.6 | 808.9 | 806.8 | 803.3 | 794.3 | 785.2 | 776.9 | 765.0 | 758.0 |
| 17.5° | 840.3 | 838.2 | 837.5 | 836.8 | 835.4 | 833.3 | 829.1 | 819.4 | 811.7 | 801.9 | 792.2 |
| 20° | 852.8 | 854.9 | 858.4 | 861.2 | 862.6 | 864.0 | 861.9 | 852.1 | 844.4 | 836.1 | 827.7 |
| 22.5° | 866.0 | 871.6 | 880.7 | 884.9 | 889.7 | 896.7 | 895.3 | 889.0 | 884.9 | 875.1 | 868.8 |
| 25° | 884.9 | 896.0 | 911.3 | 916.9 | 926.0 | 935.0 | 937.1 | 933.6 | 929.4 | 922.5 | 922.5 |
| 27.5° | 916.9 | 932.9 | 953.1 | 965.0 | 974.0 | 986.6 | 990.8 | 988.7 | 989.4 | 985.2 | 994.9 |
| 30° | 967.1 | 989.4 | 1016.5 | 1029.1 | 1040.2 | 1054.9 | 1057.6 | 1061.8 | 1059.0 | 1066.7 | 1078.5 |
| 32.5° | 1043.0 | 1070.9 | 1098.8 | 1110.6 | 1120.4 | 1135.7 | 1144.7 | 1141.9 | 1151.7 | 1156.6 | 1173.3 |
| 35° | 1160.1 | 1187.9 | 1209.5 | 1211.6 | 1222.8 | 1231.1 | 1239.5 | 1236.7 | 1263.2 | 1273.6 | 1282.7 |
| 37.5° | 1321.7 | 1345.4 | 1358.6 | 1353.8 | 1340.5 | 1356.5 | 1367.7 | 1384.4 | 1401.1 | 1419.9 | 1386.5 |
| 40° | 1531.4 | 1569.0 | 1563.5 | 1556.5 | 1531.4 | 1534.9 | 1539.8 | 1548.8 | 1576.7 | 1570.4 | 1475.0 |
| 42.5° | 1730.7 | 1769.0 | 1762.7 | 1755.1 | 1721.6 | 1704.2 | 1717.5 | 1733.5 | 1748.8 | 1689.6 | 1547.4 |
| 45° | 1932.0 | 1966.9 | 1936.9 | 1947.4 | 1917.4 | 1909.8 | 1935.5 | 1944.6 | 1927.2 | 1818.5 | 1608.8 |
| 47.5° | 2141.1 | 2178.7 | 2164.1 | 2153.6 | 2132.0 | 2129.9 | 2144.6 | 2158.5 | 2089.5 | 1911.8 | 1654.7 |
| 50° | 2301.3 | 2357.1 | 2349.4 | 2343.1 | 2319.4 | 2316.6 | 2351.5 | 2361.2 | 2237.2 | 2010.8 | 1700.7 |
| 52.5° | 2424.6 | 2497.1 | 2511.0 | 2502.7 | 2497.1 | 2498.5 | 2598.8 | 2584.2 | 2412.8 | 2130.6 | 1754.4 |
| 55° | 2570.3 | 2645.5 | 2696.4 | 2706.8 | 2720.8 | 2741.0 | 2939.5 | 2917.9 | 2655.3 | 2303.4 | 1810.8 |
| 57.5° | 2763.3 | 2902.6 | 2979.2 | 3026.6 | 3064.9 | 3195.9 | 3448.1 | 3365.2 | 2991.1 | 2526.4 | 1877.7 |
| 60° | 3047.5 | 3324.1 | 3483.0 | 3603.5 | 3679.5 | 3908.0 | 4213.9 | 3908.7 | 3381.3 | 2793.9 | 1965.5 |
| 62.5° | 3503.9 | 3955.4 | 4259.1 | 4327.4 | 4359.5 | 4576.9 | 4795.6 | 4324.6 | 3662.7 | 2970.9 | 1979.4 |
| 65° | 3946.3 | 4510.7 | 4865.3 | 4905.0 | 4881.3 | 4939.9 | 5001.2 | 4337.2 | 3597.2 | 2887.3 | 1816.4 |
| 67° | 4102.4 | 4641.7 | 5014.4 | 5062.5 | 4992.8 | 4974.0 | 4880.6 | 4108.6 | 3352.7 | 2630.9 | 1589.3 |
| 67.5° | 4094.0 | 4626.3 | 5013.0 | 5061.8 | 4992.8 | 4962.8 | 4825.6 | 4016.7 | 3256.5 | 2568.2 | 1545.4 |
| 70° | 3773.5 | 4284.9 | 4715.5 | 4806.8 | 4768.5 | 4689.0 | 4323.9 | 3402.2 | 2698.5 | 2106.9 | 1191.4 |
| 72.5° | 3063.5 | 3616.1 | 3957.5 | 4058.5 | 4085.7 | 3881.5 | 3220.3 | 2381.4 | 1945.3 | 1505.6 | 864.0 |
| 75° | 2056.8 | 2605.8 | 2885.2 | 2834.3 | 2669.2 | 2321.5 | 1700.0 | 1256.2 | 1066.0 | 875.8 | 534.4 |
| 77.5° | 1166.3 | 1590.0 | 1568.4 | 1480.6 | 1341.2 | 992.8 | 482.1 | 261.3 | 249.4 | 291.2 | 226.4 |
| 80° | 779.0 | 980.3 | 1047.2 | 1081.3 | 1073.7 | 734.4 | 199.3 | 101.0 | 87.1 | 87.1 | 85.7 |
| 82.5° | 650.1 | 847.2 | 959.4 | 989.4 | 921.8 | 558.1 | 119.1 | 66.2 | 53.0 | 59.2 | 66.2 |
| 85° | 273.8 | 427.1 | 565.1 | 543.5 | 432.0 | 217.4 | 60.6 | 34.8 | 34.8 | 46.0 | 57.8 |
| 87.5° | 66.2 | 98.2 | 138.7 | 134.5 | 108.0 | 50.2 | 30.7 | 21.6 | 21.6 | 35.5 | 50.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 |
| 2.5° | 637.5 | 634.7 | 634.7 | 631.9 | 630.5 | 629.2 | 628.5 | 629.2 | 627.1 | 625.0 | 625.7 |
| 5° | 641.0 | 636.8 | 634.7 | 629.8 | 627.1 | 624.3 | 622.2 | 621.5 | 618.0 | 615.9 | 615.9 |
| 7.5° | 652.8 | 647.3 | 643.1 | 637.5 | 631.9 | 627.8 | 624.3 | 622.2 | 617.3 | 613.8 | 613.1 |
| 10° | 677.2 | 669.6 | 663.3 | 654.9 | 647.3 | 641.7 | 635.4 | 631.9 | 626.4 | 622.9 | 621.5 |
| 12.5° | 713.5 | 702.3 | 692.6 | 680.0 | 671.0 | 662.6 | 659.1 | 653.5 | 651.4 | 649.4 | 650.1 |
| 15° | 747.6 | 734.4 | 725.3 | 715.5 | 705.1 | 700.2 | 693.3 | 692.6 | 693.3 | 689.8 | 689.8 |
| 17.5° | 782.4 | 772.0 | 761.5 | 758.0 | 748.3 | 744.8 | 739.9 | 737.1 | 730.9 | 724.6 | 716.9 |
| 20° | 818.7 | 813.1 | 808.9 | 804.7 | 802.6 | 794.3 | 781.7 | 767.1 | 746.9 | 728.8 | 713.5 |
| 22.5° | 865.3 | 861.9 | 862.6 | 859.1 | 847.9 | 827.0 | 798.5 | 767.8 | 735.1 | 705.8 | 682.8 |
| 25° | 924.6 | 928.1 | 923.9 | 906.5 | 874.4 | 831.9 | 788.0 | 744.8 | 701.6 | 666.8 | 635.4 |
| 27.5° | 999.8 | 997.0 | 977.5 | 932.9 | 877.9 | 817.3 | 760.8 | 709.3 | 657.7 | 617.3 | 578.3 |
| 30° | 1082.0 | 1061.8 | 1011.0 | 941.3 | 864.0 | 790.8 | 721.1 | 661.2 | 601.3 | 553.9 | 510.0 |
| 32.5° | 1164.9 | 1107.1 | 1024.9 | 931.5 | 839.6 | 753.2 | 675.1 | 604.8 | 535.8 | 482.8 | 432.0 |
| 35° | 1227.6 | 1135.0 | 1022.8 | 910.6 | 802.6 | 703.7 | 613.1 | 526.0 | 445.9 | 382.5 | 330.9 |
| 37.5° | 1285.5 | 1150.3 | 1008.9 | 878.6 | 751.8 | 638.2 | 525.3 | 431.3 | 350.5 | 287.1 | 242.5 |
| 40° | 1321.0 | 1148.9 | 981.7 | 825.6 | 681.4 | 542.1 | 419.4 | 322.6 | 251.5 | 204.8 | 180.5 |
| 42.5° | 1341.9 | 1134.3 | 935.0 | 755.3 | 584.6 | 434.1 | 309.4 | 222.3 | 179.1 | 158.9 | 147.7 |
| 45° | 1352.4 | 1102.9 | 877.2 | 661.2 | 467.5 | 310.0 | 213.2 | 160.2 | 142.8 | 137.3 | 134.5 |
| 47.5° | 1346.1 | 1059.0 | 794.3 | 555.3 | 348.4 | 212.5 | 152.6 | 135.2 | 129.6 | 126.8 | 126.1 |
| 50° | 1331.5 | 1001.9 | 707.2 | 440.3 | 247.3 | 152.6 | 128.2 | 123.3 | 121.2 | 120.5 | 119.1 |
| 52.5° | 1310.6 | 934.3 | 607.6 | 341.4 | 175.6 | 126.8 | 119.8 | 117.7 | 116.4 | 114.3 | 113.6 |
| 55° | 1275.7 | 850.7 | 505.8 | 251.5 | 140.7 | 119.8 | 116.4 | 115.7 | 112.9 | 110.8 | 109.4 |
| 57.5° | 1233.9 | 761.5 | 409.7 | 197.2 | 129.6 | 117.1 | 115.0 | 114.3 | 111.5 | 108.7 | 105.9 |
| 60° | 1213.0 | 698.8 | 337.2 | 170.7 | 127.5 | 118.4 | 117.1 | 115.7 | 112.2 | 108.0 | 104.5 |
| 62.5° | 1161.5 | 631.2 | 290.5 | 162.3 | 130.3 | 123.3 | 122.6 | 119.8 | 115.0 | 110.8 | 105.2 |
| 65° | 1028.4 | 535.8 | 247.3 | 154.0 | 134.5 | 131.0 | 132.4 | 128.9 | 123.3 | 116.4 | 107.3 |
| 67° | 868.8 | 435.5 | 209.0 | 147.7 | 139.3 | 141.4 | 143.5 | 141.4 | 132.4 | 121.9 | 110.1 |
| 67.5° | 825.6 | 405.5 | 198.6 | 145.6 | 140.7 | 143.5 | 147.0 | 144.9 | 135.2 | 123.3 | 111.5 |
| 70° | 620.8 | 290.5 | 157.5 | 138.0 | 145.6 | 153.3 | 160.2 | 159.6 | 149.8 | 135.2 | 116.4 |
| 72.5° | 429.2 | 198.6 | 127.5 | 128.9 | 141.4 | 155.4 | 164.4 | 168.6 | 158.9 | 141.4 | 119.1 |
| 75° | 258.5 | 126.8 | 107.3 | 116.4 | 128.9 | 142.8 | 157.5 | 158.9 | 147.7 | 130.3 | 111.5 |
| 77.5° | 126.8 | 91.3 | 88.5 | 92.0 | 103.8 | 115.7 | 121.9 | 114.3 | 107.3 | 95.5 | 88.5 |
| 80° | 76.6 | 71.8 | 70.4 | 78.0 | 85.0 | 82.9 | 78.0 | 71.8 | 68.3 | 65.5 | 62.7 |
| 82.5° | 64.1 | 64.8 | 66.2 | 67.6 | 66.2 | 58.5 | 50.2 | 46.0 | 43.2 | 43.2 | 43.9 |
| 85° | 65.5 | 66.9 | 61.3 | 56.4 | 50.2 | 41.8 | 34.1 | 29.3 | 30.0 | 30.7 | 30.7 |
| 87.5° | 50.9 | 48.8 | 43.2 | 35.5 | 28.6 | 20.9 | 16.7 | 13.9 | 15.3 | 14.6 | 16.0 |
| 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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| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 641.7 | 641.7 | 641.7 | 641.7 | 641.7 |
| 2.5° | 625.7 | 625.0 | 625.7 | 625.7 | 626.4 |
| 5° | 614.5 | 613.1 | 613.1 | 613.8 | 613.8 |
| 7.5° | 611.7 | 610.3 | 610.3 | 611.0 | 610.3 |
| 10° | 621.5 | 620.8 | 622.2 | 621.5 | 621.5 |
| 12.5° | 650.8 | 650.8 | 653.5 | 654.9 | 653.5 |
| 15° | 690.5 | 689.1 | 691.2 | 691.9 | 692.6 |
| 17.5° | 712.8 | 706.5 | 704.4 | 705.8 | 703.0 |
| 20° | 700.2 | 689.8 | 685.6 | 684.9 | 680.0 |
| 22.5° | 664.7 | 649.4 | 643.1 | 640.3 | 634.7 |
| 25° | 614.5 | 596.4 | 588.0 | 581.1 | 577.6 |
| 27.5° | 554.6 | 532.3 | 520.5 | 514.9 | 512.8 |
| 30° | 479.4 | 457.8 | 440.3 | 431.3 | 428.5 |
| 32.5° | 395.7 | 364.4 | 346.3 | 335.1 | 327.5 |
| 35° | 295.4 | 265.5 | 252.2 | 243.9 | 234.1 |
| 37.5° | 214.6 | 196.5 | 185.3 | 179.8 | 177.7 |
| 40° | 165.8 | 156.8 | 151.2 | 150.5 | 149.8 |
| 42.5° | 143.5 | 139.3 | 138.7 | 137.3 | 135.9 |
| 45° | 132.4 | 131.0 | 131.7 | 129.6 | 128.2 |
| 47.5° | 124.7 | 124.0 | 124.0 | 122.6 | 121.9 |
| 50° | 118.4 | 118.4 | 117.7 | 117.1 | 117.1 |
| 52.5° | 112.9 | 113.6 | 113.6 | 112.2 | 112.2 |
| 55° | 108.0 | 108.0 | 108.7 | 108.0 | 108.0 |
| 57.5° | 104.5 | 103.8 | 104.5 | 104.5 | 104.5 |
| 60° | 102.4 | 101.0 | 100.3 | 101.0 | 101.0 |
| 62.5° | 100.3 | 98.2 | 97.5 | 97.5 | 98.2 |
| 65° | 100.3 | 96.8 | 95.5 | 95.5 | 94.8 |
| 67° | 101.0 | 95.5 | 92.7 | 91.3 | 90.6 |
| 67.5° | 101.0 | 94.8 | 91.3 | 90.6 | 89.9 |
| 70° | 101.0 | 92.0 | 87.1 | 83.6 | 83.6 |
| 72.5° | 100.3 | 89.2 | 81.5 | 78.0 | 76.6 |
| 75° | 95.5 | 84.3 | 77.3 | 73.2 | 71.8 |
| 77.5° | 80.1 | 73.2 | 69.7 | 66.2 | 65.5 |
| 80° | 60.6 | 57.1 | 54.3 | 46.7 | 43.2 |
| 82.5° | 43.2 | 41.1 | 36.2 | 33.4 | 31.4 |
| 85° | 30.7 | 28.6 | 26.5 | 23.7 | 23.7 |
| 87.5° | 16.7 | 16.0 | 15.3 | 13.9 | 12.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)