

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: P158639

Luminaire Tested: **VST-E02-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158639
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E02-LED-E-U-SL4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5299.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

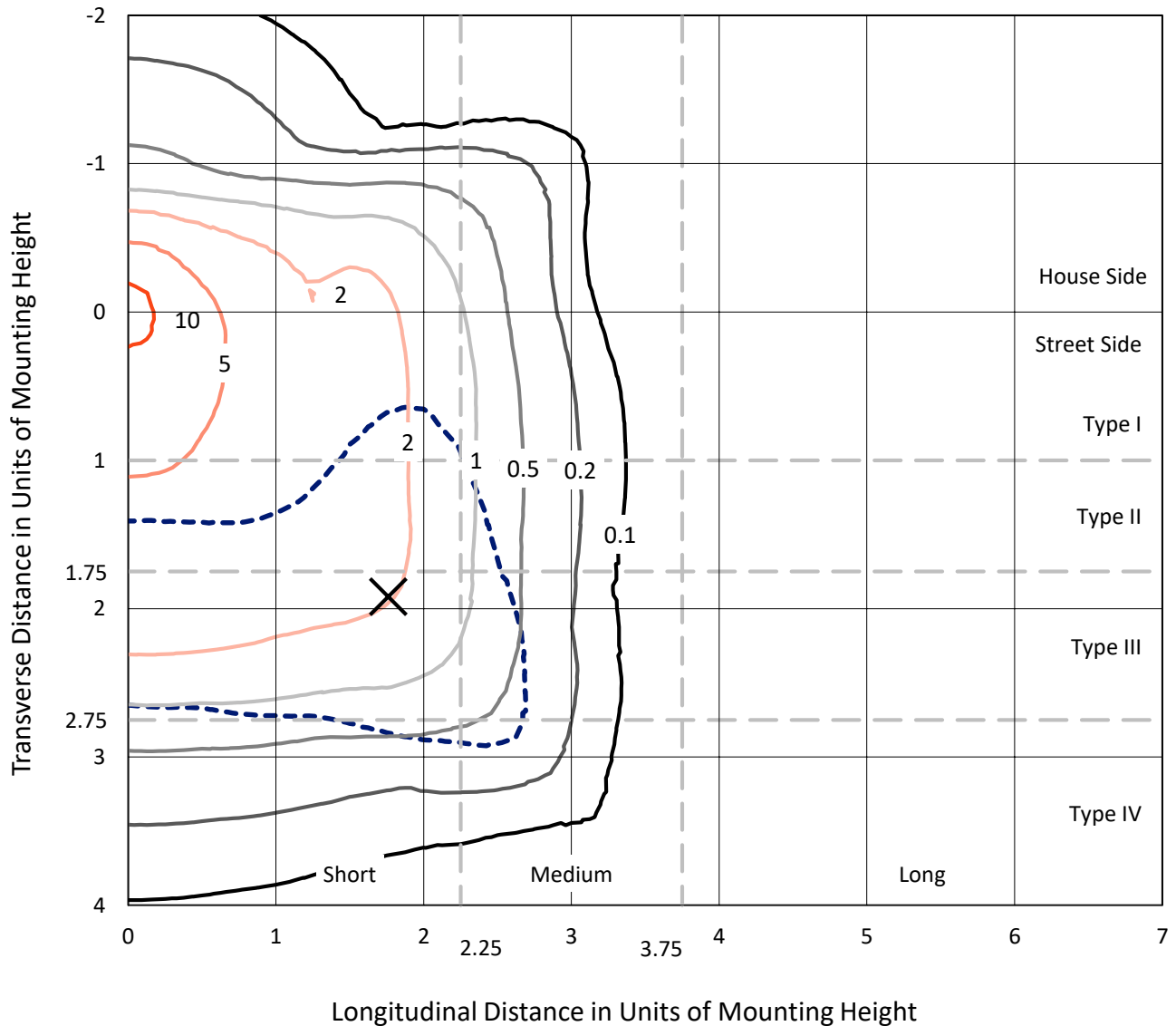
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P158639
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Iso-Footcandle Lines of Horizontal Illumination

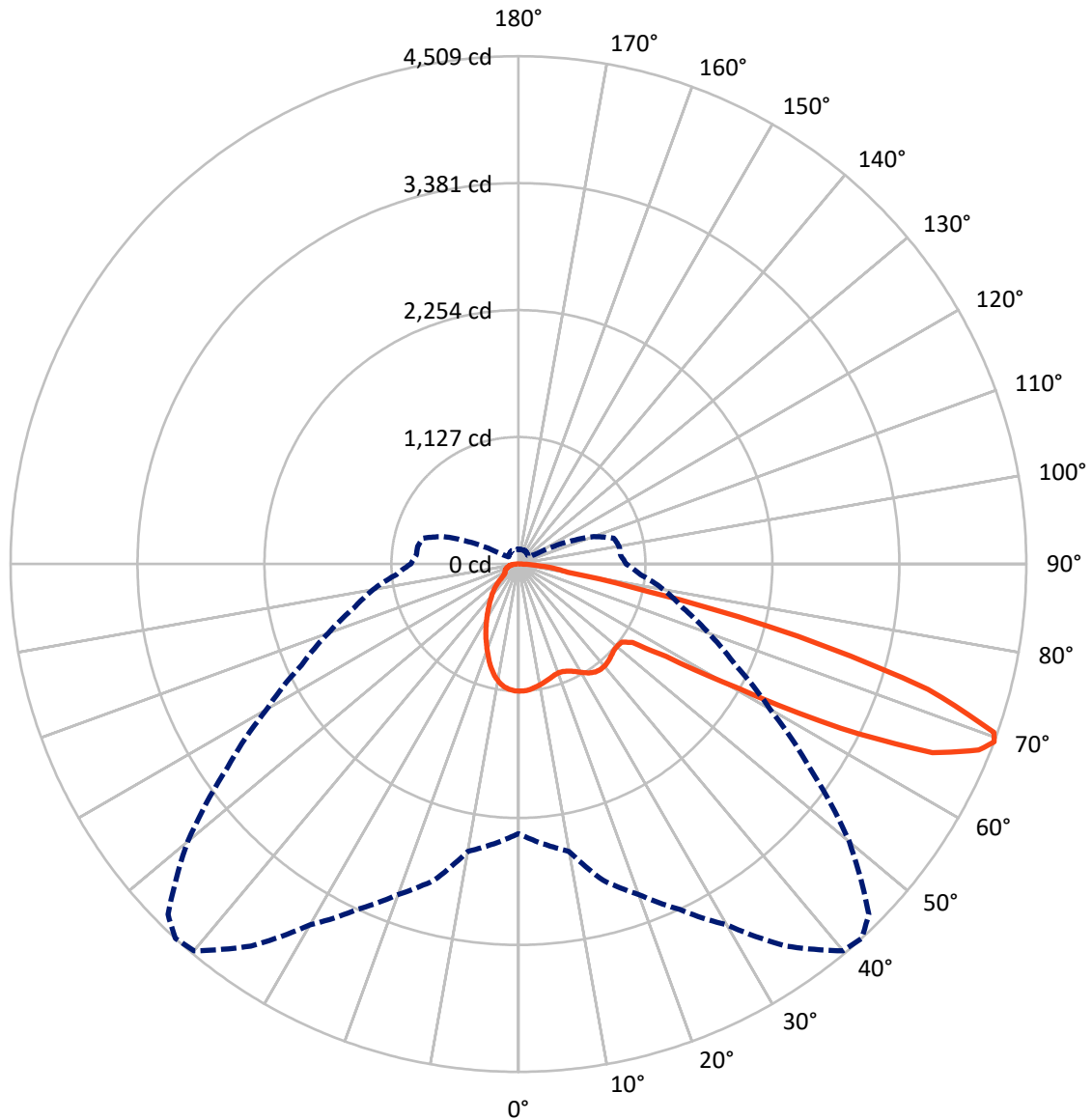
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1178.1 | 0.0 | 1178.1 |
| | % Fixture | 22.2 | 0.0 | 22.2 |
| Street Side | Lumens | 4121.1 | 0.0 | 4121.1 |
| | % Fixture | 77.8 | 0.0 | 77.8 |
| Total | Lumens | 5299.1 | 0.0 | 5299.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.1 | 2.0 |
| 10°-20° | 283.1 | 5.3 |
| 20°-30° | 412.9 | 7.8 |
| 30°-40° | 526.3 | 9.9 |
| 40°-50° | 612.4 | 11.6 |
| 50°-60° | 931.7 | 17.6 |
| 60°-70° | 1645.9 | 31.1 |
| 70°-80° | 679.2 | 12.8 |
| 80°-90° | 102.6 | 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° | 5299.1 | 100.0 |
| 0°-180° | 5299.1 | 100.0 |



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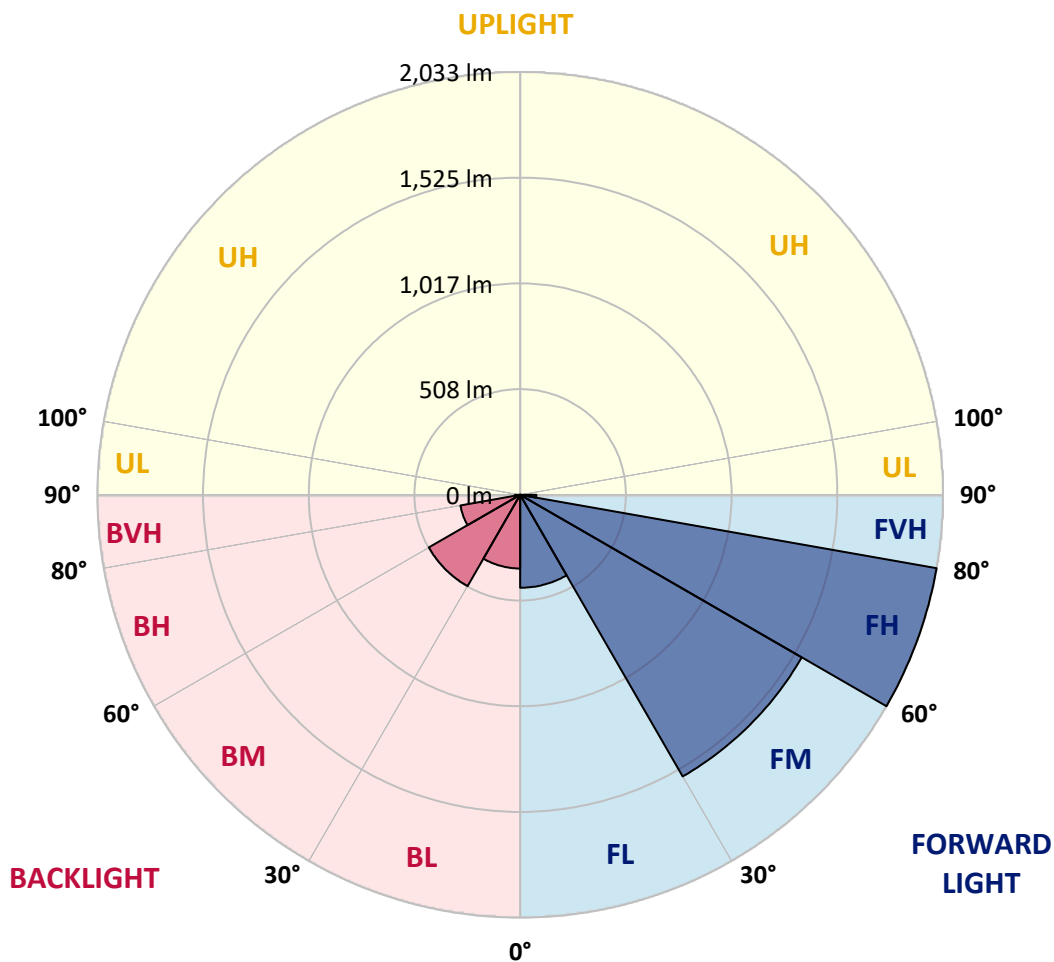
CATALOG NUMBER: VST-E02-LED-E-U-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 446.8 | 8.4 | | | |
| FM | (30°-60°) | 1563.4 | 29.5 | | | |
| FH | (60°-80°) | 2033.3 | 38.4 | | | G2/5000 |
| FVH | (80°-90°) | 77.6 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 354.2 | 6.7 | B1/500 | | |
| BM | (30°-60°) | 507.1 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 291.8 | 5.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 25.0 | 0.5 | | | 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 IV Short





REPORT NUMBER: P158639

CATALOG NUMBER: VST-E02-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 42.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 |
| 2.5° | 1124.9 | 1128.9 | 1127.5 | 1127.5 | 1128.5 | 1126.7 | 1126.7 | 1127.5 | 1125.6 | 1126.7 | 1126.3 |
| 5° | 1120.9 | 1123.1 | 1122.3 | 1122.3 | 1122.3 | 1120.9 | 1120.1 | 1119.8 | 1117.2 | 1117.2 | 1116.1 |
| 7.5° | 1112.1 | 1112.8 | 1113.9 | 1112.5 | 1112.1 | 1111.7 | 1109.2 | 1107.7 | 1104.8 | 1102.3 | 1103.0 |
| 10° | 1100.4 | 1100.0 | 1101.8 | 1100.8 | 1099.3 | 1098.2 | 1096.0 | 1093.4 | 1090.2 | 1086.9 | 1086.5 |
| 12.5° | 1087.3 | 1086.9 | 1088.3 | 1087.6 | 1086.5 | 1084.3 | 1082.5 | 1078.1 | 1073.0 | 1069.0 | 1068.6 |
| 15° | 1078.9 | 1077.8 | 1079.2 | 1077.8 | 1075.9 | 1073.8 | 1070.5 | 1064.9 | 1055.8 | 1051.8 | 1048.5 |
| 17.5° | 1086.9 | 1085.0 | 1085.8 | 1084.0 | 1081.4 | 1075.6 | 1067.9 | 1056.2 | 1043.0 | 1036.1 | 1031.0 |
| 20° | 1115.0 | 1111.7 | 1112.5 | 1110.7 | 1104.8 | 1097.1 | 1082.5 | 1062.1 | 1039.7 | 1028.5 | 1020.4 |
| 22.5° | 1155.2 | 1152.7 | 1153.7 | 1151.9 | 1146.1 | 1134.4 | 1112.5 | 1083.2 | 1051.4 | 1035.0 | 1022.2 |
| 25° | 1216.2 | 1218.4 | 1219.1 | 1210.7 | 1207.4 | 1185.9 | 1155.6 | 1115.0 | 1072.6 | 1053.3 | 1035.7 |
| 27.5° | 1284.9 | 1284.9 | 1288.2 | 1284.9 | 1278.3 | 1253.1 | 1210.4 | 1161.4 | 1107.0 | 1080.7 | 1059.5 |
| 30° | 1351.7 | 1351.0 | 1357.3 | 1356.5 | 1345.9 | 1317.4 | 1268.8 | 1209.3 | 1147.1 | 1117.6 | 1090.6 |
| 32.5° | 1422.7 | 1424.8 | 1428.8 | 1427.4 | 1413.5 | 1374.1 | 1315.6 | 1250.9 | 1185.5 | 1153.0 | 1122.7 |
| 35° | 1499.3 | 1500.5 | 1501.9 | 1501.2 | 1473.1 | 1423.4 | 1349.9 | 1277.6 | 1209.7 | 1177.5 | 1146.1 |
| 37.5° | 1576.1 | 1575.0 | 1573.1 | 1557.4 | 1525.3 | 1456.3 | 1370.8 | 1292.9 | 1221.7 | 1187.0 | 1154.5 |
| 40° | 1644.8 | 1638.5 | 1632.7 | 1608.2 | 1558.9 | 1474.9 | 1378.8 | 1296.6 | 1220.6 | 1184.8 | 1153.0 |
| 42.5° | 1682.4 | 1675.4 | 1663.4 | 1632.7 | 1572.8 | 1476.7 | 1373.3 | 1285.6 | 1209.3 | 1173.8 | 1142.4 |
| 45° | 1689.4 | 1684.2 | 1672.5 | 1638.2 | 1569.5 | 1465.0 | 1356.5 | 1267.7 | 1192.5 | 1157.0 | 1127.5 |
| 47.5° | 1672.9 | 1668.9 | 1657.6 | 1623.6 | 1555.3 | 1447.5 | 1337.2 | 1248.7 | 1176.0 | 1142.8 | 1114.3 |
| 50° | 1647.7 | 1644.1 | 1635.2 | 1604.2 | 1539.2 | 1435.4 | 1327.3 | 1238.9 | 1170.5 | 1140.2 | 1113.9 |
| 52.5° | 1688.6 | 1691.5 | 1666.0 | 1632.0 | 1556.3 | 1446.0 | 1338.2 | 1249.1 | 1180.4 | 1150.4 | 1123.1 |
| 55° | 2324.6 | 2320.6 | 2166.8 | 2037.8 | 1807.3 | 1598.3 | 1442.3 | 1330.2 | 1256.8 | 1226.8 | 1201.3 |
| 57.5° | 3020.6 | 3006.7 | 2943.5 | 2823.0 | 2575.3 | 2244.7 | 1944.0 | 1688.2 | 1587.4 | 1544.3 | 1547.2 |
| 60° | 3247.9 | 3253.0 | 3239.5 | 3196.7 | 3107.9 | 2935.9 | 2707.2 | 2515.0 | 2325.8 | 2233.3 | 2243.9 |
| 62.5° | 3373.9 | 3383.0 | 3394.7 | 3385.3 | 3356.4 | 3316.6 | 3287.7 | 3305.2 | 3278.9 | 3212.5 | 3159.5 |
| 65° | 3391.4 | 3410.1 | 3448.8 | 3479.5 | 3494.5 | 3532.1 | 3620.5 | 3832.4 | 4026.1 | 4038.8 | 3945.7 |
| 67.5° | 3044.4 | 3095.9 | 3179.9 | 3322.0 | 3443.7 | 3577.4 | 3790.7 | 4113.0 | 4398.7 | 4408.2 | 4321.3 |
| 69° | 2393.7 | 2492.7 | 2591.0 | 2908.5 | 3122.2 | 3384.1 | 3699.8 | 4140.1 | 4482.4 | 4508.6 | 4399.1 |
| 70° | 1918.0 | 1976.9 | 2061.6 | 2380.6 | 2699.9 | 3033.8 | 3491.2 | 4050.9 | 4425.0 | 4478.0 | 4357.0 |
| 72.5° | 1151.6 | 1174.2 | 1203.4 | 1317.8 | 1482.2 | 1779.6 | 2386.0 | 3302.7 | 3732.7 | 3803.6 | 3649.7 |
| 75° | 744.5 | 743.1 | 745.7 | 777.4 | 787.0 | 844.0 | 1035.0 | 1699.2 | 2435.0 | 2563.6 | 2379.5 |
| 77.5° | 560.8 | 565.9 | 557.9 | 560.8 | 558.2 | 573.6 | 579.4 | 608.3 | 961.2 | 1184.0 | 1058.8 |
| 80° | 495.1 | 497.6 | 497.9 | 496.5 | 478.6 | 477.1 | 486.7 | 470.2 | 436.9 | 443.5 | 424.9 |
| 82.5° | 282.4 | 282.1 | 285.4 | 310.2 | 320.4 | 354.0 | 367.9 | 375.5 | 346.7 | 325.1 | 294.1 |
| 85° | 183.1 | 184.5 | 188.2 | 195.8 | 188.2 | 191.1 | 187.8 | 194.3 | 178.3 | 165.5 | 148.0 |
| 87.5° | 74.9 | 74.9 | 79.6 | 86.6 | 80.8 | 79.3 | 68.0 | 67.2 | 57.0 | 51.5 | 40.2 |
| 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: VST-E02-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 |
| 2.5° | 1124.2 | 1126.3 | 1125.2 | 1126.7 | 1125.6 | 1125.6 | 1124.2 | 1123.8 | 1124.9 | 1123.4 | 1123.8 |
| 5° | 1114.3 | 1114.7 | 1112.8 | 1113.5 | 1111.4 | 1110.7 | 1109.5 | 1106.6 | 1108.4 | 1106.6 | 1107.4 |
| 7.5° | 1100.0 | 1099.0 | 1096.4 | 1092.7 | 1090.2 | 1089.1 | 1086.9 | 1082.9 | 1083.6 | 1080.3 | 1082.2 |
| 10° | 1081.8 | 1078.1 | 1073.8 | 1068.2 | 1064.6 | 1061.3 | 1056.5 | 1051.8 | 1049.3 | 1046.3 | 1046.0 |
| 12.5° | 1061.3 | 1056.9 | 1051.1 | 1042.7 | 1034.6 | 1029.2 | 1021.9 | 1013.5 | 1010.9 | 1006.1 | 1003.6 |
| 15° | 1039.0 | 1032.1 | 1025.2 | 1015.6 | 1006.9 | 998.5 | 988.6 | 978.0 | 971.1 | 963.8 | 958.3 |
| 17.5° | 1018.9 | 1010.9 | 1001.8 | 992.6 | 983.2 | 972.9 | 960.5 | 947.3 | 937.1 | 923.6 | 912.6 |
| 20° | 1003.2 | 993.0 | 983.9 | 974.3 | 963.8 | 951.4 | 936.4 | 919.6 | 902.4 | 887.4 | 874.6 |
| 22.5° | 997.0 | 980.9 | 970.0 | 960.5 | 949.9 | 935.3 | 917.0 | 897.3 | 876.5 | 855.6 | 838.8 |
| 25° | 1002.1 | 978.4 | 961.2 | 949.9 | 940.7 | 925.8 | 905.3 | 881.2 | 857.1 | 832.3 | 809.6 |
| 27.5° | 1017.1 | 986.8 | 961.9 | 944.0 | 933.4 | 918.5 | 896.9 | 871.3 | 842.8 | 815.1 | 787.3 |
| 30° | 1040.5 | 1001.0 | 969.6 | 944.4 | 928.0 | 910.8 | 888.1 | 858.5 | 829.7 | 797.9 | 767.6 |
| 32.5° | 1063.1 | 1016.0 | 978.4 | 945.8 | 920.6 | 898.4 | 873.2 | 844.0 | 812.9 | 779.6 | 748.2 |
| 35° | 1079.2 | 1025.9 | 981.7 | 942.6 | 909.4 | 881.6 | 854.5 | 825.3 | 795.0 | 761.0 | 728.9 |
| 37.5° | 1086.9 | 1031.3 | 982.0 | 933.8 | 894.4 | 863.6 | 834.8 | 805.9 | 777.4 | 745.3 | 715.0 |
| 40° | 1086.5 | 1031.0 | 976.9 | 922.5 | 876.5 | 844.0 | 815.5 | 787.3 | 760.6 | 732.5 | 705.1 |
| 42.5° | 1078.5 | 1025.2 | 969.6 | 911.5 | 863.6 | 827.5 | 797.9 | 770.9 | 748.2 | 723.4 | 700.4 |
| 45° | 1066.1 | 1015.3 | 961.9 | 906.4 | 860.0 | 823.9 | 792.4 | 766.1 | 746.0 | 723.4 | 703.6 |
| 47.5° | 1056.5 | 1009.8 | 963.1 | 915.5 | 871.3 | 833.7 | 800.5 | 771.6 | 754.4 | 736.1 | 722.3 |
| 50° | 1058.0 | 1012.4 | 966.7 | 921.0 | 879.4 | 841.4 | 809.2 | 782.9 | 770.5 | 765.8 | 762.5 |
| 52.5° | 1065.7 | 1016.4 | 977.6 | 950.2 | 936.0 | 907.5 | 888.5 | 872.0 | 881.2 | 863.3 | 842.1 |
| 55° | 1163.6 | 1147.6 | 1185.2 | 1220.6 | 1265.5 | 1282.3 | 1266.2 | 1263.4 | 1277.9 | 1217.3 | 1078.1 |
| 57.5° | 1568.0 | 1609.7 | 1667.8 | 1698.5 | 1735.7 | 1725.8 | 1688.6 | 1657.6 | 1621.0 | 1550.2 | 1376.6 |
| 60° | 2256.0 | 2224.6 | 2198.3 | 2124.1 | 2063.5 | 1992.5 | 1913.6 | 1846.1 | 1781.4 | 1679.5 | 1491.7 |
| 62.5° | 2964.7 | 2746.6 | 2564.3 | 2388.2 | 2246.5 | 2128.9 | 2014.5 | 1912.9 | 1815.0 | 1672.9 | 1470.8 |
| 65° | 3577.8 | 3118.6 | 2776.2 | 2517.9 | 2310.8 | 2132.1 | 1985.3 | 1844.9 | 1720.4 | 1553.8 | 1354.0 |
| 67.5° | 3853.3 | 3277.9 | 2779.9 | 2409.8 | 2123.0 | 1880.4 | 1690.4 | 1478.5 | 1339.0 | 1232.3 | 1119.8 |
| 69° | 3832.8 | 3156.2 | 2581.5 | 2125.9 | 1796.4 | 1513.6 | 1309.7 | 1088.7 | 955.0 | 909.7 | 907.1 |
| 70° | 3735.6 | 2950.1 | 2349.8 | 1895.4 | 1518.4 | 1237.4 | 1042.0 | 843.6 | 719.0 | 688.0 | 743.1 |
| 72.5° | 3049.9 | 2084.6 | 1472.7 | 1124.5 | 864.8 | 683.6 | 557.5 | 442.4 | 353.3 | 306.2 | 316.4 |
| 75° | 1722.6 | 965.2 | 624.0 | 471.7 | 398.6 | 329.5 | 282.8 | 241.1 | 218.1 | 177.2 | 140.3 |
| 77.5° | 626.2 | 414.3 | 329.5 | 284.9 | 202.0 | 139.2 | 116.5 | 101.9 | 92.5 | 92.5 | 88.0 |
| 80° | 396.0 | 312.0 | 217.7 | 149.0 | 110.3 | 96.1 | 84.0 | 73.8 | 68.0 | 66.5 | 68.0 |
| 82.5° | 247.3 | 191.1 | 122.0 | 93.5 | 78.5 | 70.5 | 61.4 | 53.7 | 49.0 | 47.9 | 50.0 |
| 85° | 122.0 | 94.6 | 74.2 | 66.1 | 62.1 | 57.7 | 50.8 | 43.5 | 42.0 | 44.9 | 52.6 |
| 87.5° | 36.5 | 32.5 | 26.6 | 27.8 | 29.2 | 28.5 | 22.7 | 19.7 | 18.7 | 24.5 | 38.3 |
| 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: VST-E02-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 | 1128.5 |
| 2.5° | 1124.5 | 1124.2 | 1124.9 | 1123.8 | 1124.5 | 1124.9 | 1124.2 | 1127.5 | 1125.2 | 1125.6 | 1127.1 |
| 5° | 1108.1 | 1107.4 | 1110.2 | 1109.5 | 1111.0 | 1112.5 | 1111.7 | 1116.5 | 1114.7 | 1116.1 | 1119.1 |
| 7.5° | 1080.7 | 1082.2 | 1082.5 | 1082.5 | 1085.4 | 1090.2 | 1091.3 | 1094.2 | 1094.2 | 1098.2 | 1101.1 |
| 10° | 1044.1 | 1044.5 | 1046.7 | 1046.3 | 1050.0 | 1055.1 | 1055.8 | 1060.9 | 1062.8 | 1069.4 | 1073.3 |
| 12.5° | 1001.8 | 1000.0 | 999.6 | 999.2 | 1004.0 | 1009.4 | 1010.2 | 1018.9 | 1022.6 | 1028.5 | 1035.0 |
| 15° | 954.2 | 949.5 | 948.1 | 951.0 | 949.9 | 953.2 | 956.5 | 961.2 | 966.3 | 978.0 | 983.9 |
| 17.5° | 907.9 | 898.4 | 895.8 | 892.5 | 889.3 | 889.3 | 890.7 | 896.5 | 907.1 | 913.4 | 926.5 |
| 20° | 860.4 | 849.1 | 839.9 | 831.1 | 823.5 | 820.6 | 820.9 | 828.2 | 835.9 | 846.1 | 858.5 |
| 22.5° | 820.6 | 803.4 | 787.7 | 776.0 | 760.3 | 759.9 | 757.7 | 759.9 | 768.3 | 770.9 | 777.8 |
| 25° | 786.2 | 763.2 | 742.0 | 723.0 | 707.6 | 699.6 | 697.4 | 696.7 | 692.7 | 691.6 | 686.5 |
| 27.5° | 759.5 | 731.8 | 704.4 | 681.4 | 662.3 | 651.4 | 637.5 | 627.7 | 613.4 | 609.8 | 600.6 |
| 30° | 737.6 | 707.6 | 677.7 | 647.8 | 626.2 | 606.5 | 583.1 | 565.9 | 544.0 | 529.7 | 517.3 |
| 32.5° | 716.5 | 686.1 | 655.8 | 626.2 | 592.9 | 562.3 | 531.5 | 504.9 | 480.4 | 458.5 | 440.2 |
| 35° | 698.9 | 670.0 | 639.4 | 603.5 | 561.2 | 517.0 | 480.1 | 449.8 | 416.1 | 393.1 | 370.1 |
| 37.5° | 687.6 | 661.3 | 630.6 | 581.3 | 526.8 | 479.3 | 437.3 | 400.4 | 366.1 | 331.4 | 305.4 |
| 40° | 682.4 | 659.5 | 621.1 | 560.8 | 496.9 | 444.2 | 397.9 | 356.9 | 313.1 | 274.0 | 246.2 |
| 42.5° | 682.1 | 658.7 | 607.9 | 538.1 | 472.0 | 414.7 | 363.1 | 314.2 | 265.6 | 225.4 | 198.0 |
| 45° | 688.7 | 657.6 | 594.1 | 519.1 | 450.1 | 390.2 | 328.8 | 269.3 | 214.8 | 184.9 | 170.2 |
| 47.5° | 706.2 | 659.5 | 582.7 | 501.6 | 429.3 | 360.6 | 289.3 | 220.0 | 175.0 | 161.1 | 161.1 |
| 50° | 737.6 | 670.0 | 579.8 | 489.2 | 408.5 | 326.2 | 241.1 | 177.5 | 154.9 | 154.9 | 159.3 |
| 52.5° | 785.8 | 692.3 | 584.9 | 480.4 | 382.5 | 280.9 | 190.0 | 153.1 | 148.7 | 152.7 | 158.6 |
| 55° | 896.9 | 731.8 | 591.8 | 465.4 | 343.1 | 222.8 | 156.7 | 144.7 | 146.5 | 151.3 | 156.7 |
| 57.5° | 1100.8 | 816.2 | 599.2 | 432.5 | 279.5 | 171.7 | 142.1 | 141.4 | 144.7 | 149.0 | 153.8 |
| 60° | 1234.9 | 923.6 | 617.8 | 382.9 | 211.6 | 141.8 | 134.8 | 139.2 | 143.2 | 146.9 | 150.5 |
| 62.5° | 1234.9 | 953.9 | 631.7 | 327.4 | 158.9 | 128.9 | 130.1 | 137.0 | 141.8 | 143.6 | 145.8 |
| 65° | 1156.0 | 898.4 | 584.5 | 266.7 | 129.4 | 121.7 | 125.7 | 132.6 | 137.0 | 138.5 | 140.3 |
| 67.5° | 1010.2 | 793.5 | 492.5 | 200.9 | 115.4 | 115.4 | 120.5 | 125.7 | 129.4 | 132.2 | 135.2 |
| 69° | 878.3 | 712.0 | 433.7 | 170.2 | 110.0 | 110.7 | 115.8 | 120.2 | 124.6 | 128.2 | 131.9 |
| 70° | 783.3 | 651.1 | 392.8 | 154.6 | 106.7 | 107.0 | 112.1 | 116.9 | 120.9 | 124.9 | 129.4 |
| 72.5° | 419.4 | 449.8 | 298.5 | 126.8 | 98.3 | 99.4 | 104.1 | 108.5 | 112.1 | 116.2 | 120.2 |
| 75° | 142.9 | 193.3 | 190.0 | 103.7 | 88.8 | 91.7 | 94.6 | 98.6 | 103.4 | 106.0 | 108.1 |
| 77.5° | 83.6 | 86.6 | 101.2 | 84.4 | 80.0 | 81.5 | 84.8 | 88.0 | 92.0 | 94.6 | 96.4 |
| 80° | 70.1 | 69.8 | 70.1 | 68.7 | 69.8 | 73.1 | 75.2 | 79.6 | 83.3 | 84.0 | 83.6 |
| 82.5° | 57.0 | 59.9 | 60.3 | 59.6 | 62.8 | 65.4 | 67.2 | 69.8 | 69.4 | 70.1 | 71.6 |
| 85° | 50.8 | 50.4 | 53.0 | 53.3 | 53.3 | 51.5 | 51.9 | 51.9 | 51.9 | 53.0 | 53.3 |
| 87.5° | 50.8 | 42.4 | 32.9 | 29.6 | 31.1 | 29.2 | 27.8 | 27.4 | 30.3 | 33.2 | 32.5 |
| 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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| 2.5° | 1127.8 | 1128.9 | 1128.2 | 1128.2 | 1128.9 |
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| 37.5° | 283.1 | 263.8 | 251.3 | 243.3 | 242.2 |
| 40° | 224.0 | 206.0 | 197.3 | 192.9 | 192.2 |
| 42.5° | 182.7 | 175.0 | 172.8 | 172.8 | 172.8 |
| 45° | 166.6 | 166.2 | 168.1 | 169.5 | 169.9 |
| 47.5° | 163.3 | 165.5 | 168.1 | 170.2 | 171.0 |
| 50° | 163.3 | 165.5 | 167.3 | 169.5 | 170.2 |
| 52.5° | 162.6 | 164.4 | 165.1 | 166.6 | 167.3 |
| 55° | 160.4 | 161.5 | 161.5 | 162.2 | 163.0 |
| 57.5° | 156.7 | 157.4 | 156.4 | 157.1 | 158.9 |
| 60° | 153.1 | 153.8 | 152.0 | 153.8 | 154.9 |
| 62.5° | 149.0 | 149.4 | 148.7 | 150.2 | 150.2 |
| 65° | 142.5 | 141.8 | 142.9 | 143.9 | 144.3 |
| 67.5° | 135.9 | 134.1 | 135.2 | 135.5 | 136.3 |
| 69° | 130.8 | 129.7 | 130.1 | 130.8 | 131.5 |
| 70° | 127.1 | 126.4 | 127.1 | 128.2 | 129.4 |
| 72.5° | 118.0 | 118.4 | 120.9 | 123.1 | 125.3 |
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| 82.5° | 69.8 | 68.7 | 68.0 | 67.2 | 66.8 |
| 85° | 50.0 | 49.7 | 46.7 | 44.6 | 44.6 |
| 87.5° | 29.9 | 28.5 | 27.1 | 25.2 | 24.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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