

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: P159748

Luminaire Tested: **VST-E03-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159748
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E03-LED-E-U-T4-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7536.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

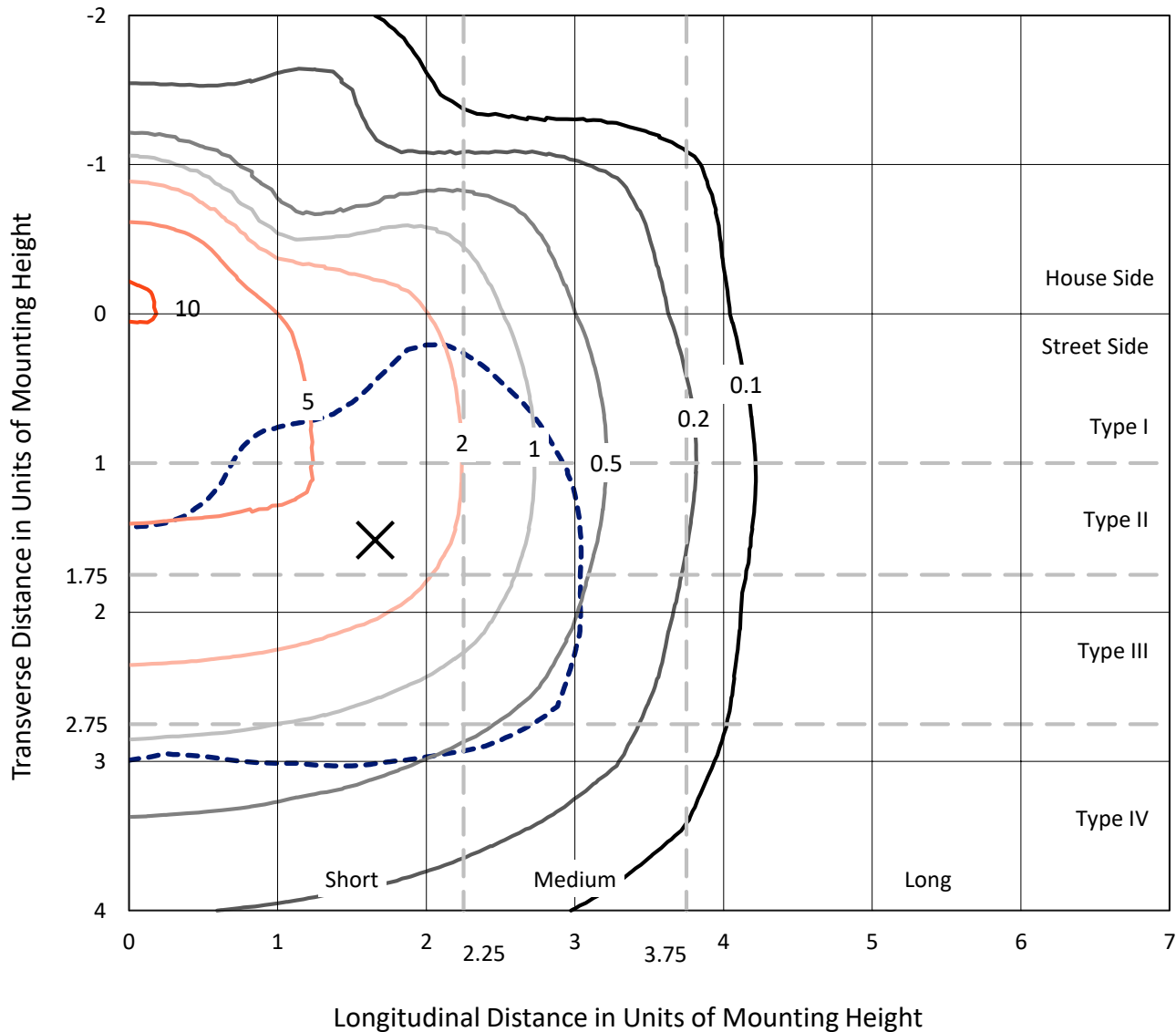
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

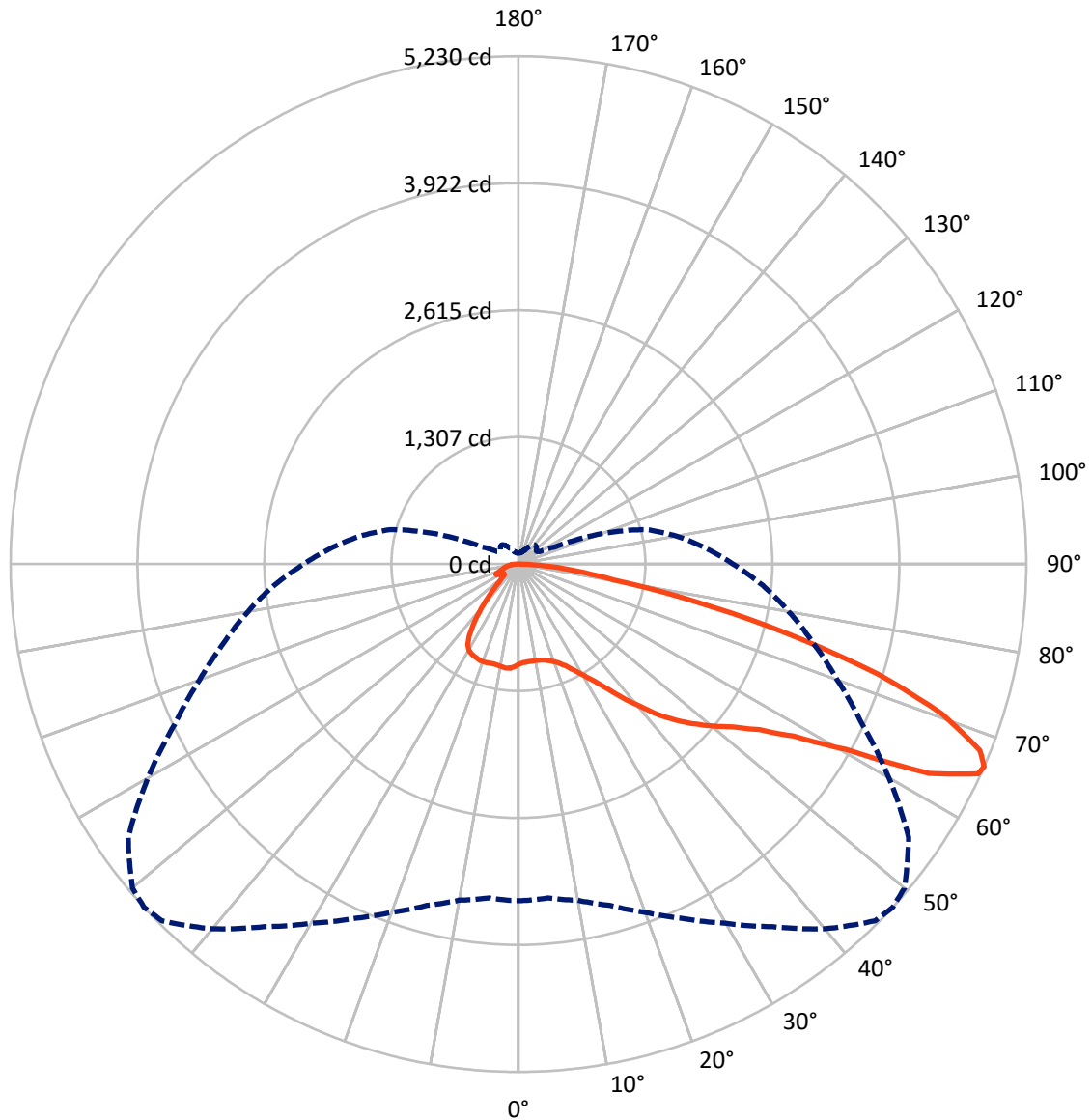


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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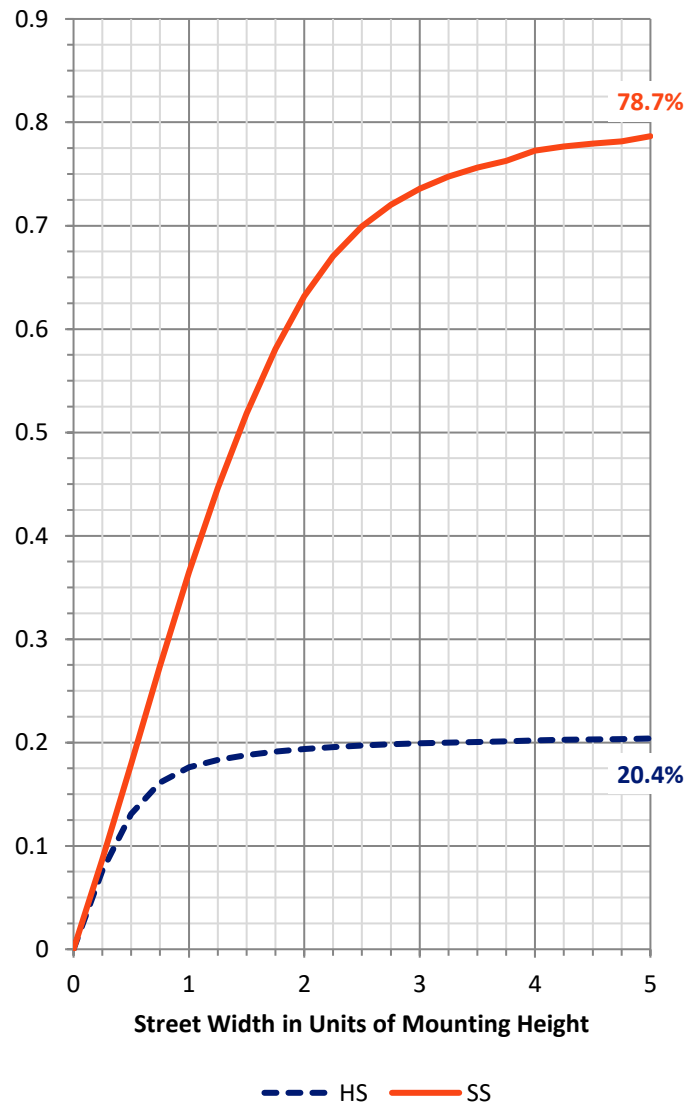
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1560.3 | 0.0 | 1560.3 |
| | % Fixture | 20.7 | 0.0 | 20.7 |
| Street Side | Lumens | 5975.8 | 0.0 | 5975.8 |
| | % Fixture | 79.3 | 0.0 | 79.3 |
| Total | Lumens | 7536.1 | 0.0 | 7536.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.4 | 1.3 |
| 10°-20° | 298.0 | 4.0 |
| 20°-30° | 508.5 | 6.7 |
| 30°-40° | 767.4 | 10.2 |
| 40°-50° | 997.5 | 13.2 |
| 50°-60° | 1368.5 | 18.2 |
| 60°-70° | 2105.1 | 27.9 |
| 70°-80° | 1216.9 | 16.1 |
| 80°-90° | 174.8 | 2.3 |
| 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° | 7536.1 | 100.0 |
| 0°-180° | 7536.1 | 100.0 |



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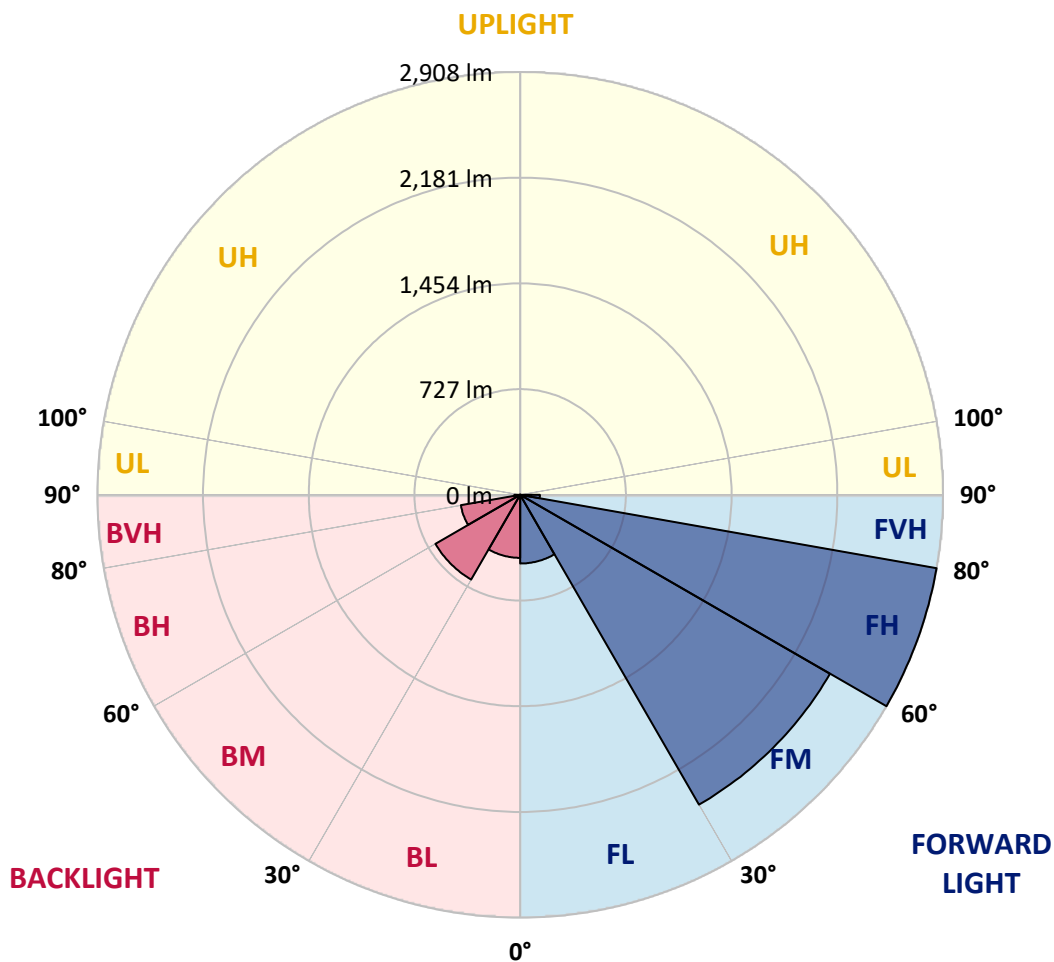
CATALOG NUMBER: VST-E03-LED-E-U-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 472.4 | 6.3 | | | |
| FM | (30°-60°) | 2460.2 | 32.6 | | | |
| FH | (60°-80°) | 2907.9 | 38.6 | | | G2/5000 |
| FVH | (80°-90°) | 135.3 | 1.8 | | | G2/225 |
| BL | (0°-30°) | 433.5 | 5.8 | B1/500 | | |
| BM | (30°-60°) | 673.2 | 8.9 | B1/1000 | | |
| BH | (60°-80°) | 414.1 | 5.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 39.5 | 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





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CATALOG NUMBER: VST-E03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 |
| 2.5° | 1004.7 | 1005.2 | 1005.7 | 1005.7 | 1007.2 | 1007.2 | 1009.7 | 1011.2 | 1011.8 | 1014.8 | 1016.8 |
| 5° | 986.0 | 985.4 | 986.0 | 986.9 | 989.5 | 991.5 | 996.6 | 1000.1 | 1003.1 | 1008.2 | 1010.8 |
| 7.5° | 977.8 | 978.8 | 979.9 | 980.4 | 982.4 | 987.5 | 992.0 | 995.6 | 1001.6 | 1007.7 | 1010.3 |
| 10° | 988.5 | 990.0 | 988.5 | 989.5 | 989.5 | 994.1 | 996.1 | 998.6 | 1003.1 | 1008.7 | 1010.3 |
| 12.5° | 1013.3 | 1016.3 | 1013.3 | 1010.8 | 1008.7 | 1012.8 | 1011.8 | 1009.7 | 1012.3 | 1013.8 | 1013.8 |
| 15° | 1054.3 | 1054.3 | 1052.3 | 1048.7 | 1043.7 | 1044.2 | 1039.6 | 1035.1 | 1033.0 | 1029.5 | 1027.0 |
| 17.5° | 1094.3 | 1093.3 | 1088.8 | 1084.2 | 1080.7 | 1079.1 | 1072.6 | 1066.4 | 1059.4 | 1053.8 | 1047.7 |
| 20° | 1133.3 | 1137.4 | 1131.8 | 1125.2 | 1119.7 | 1116.1 | 1111.0 | 1098.9 | 1090.3 | 1081.1 | 1075.1 |
| 22.5° | 1200.7 | 1197.1 | 1191.1 | 1181.4 | 1175.8 | 1169.8 | 1159.1 | 1146.0 | 1132.8 | 1121.6 | 1114.1 |
| 25° | 1270.0 | 1266.5 | 1257.9 | 1250.8 | 1242.7 | 1237.6 | 1226.0 | 1209.8 | 1197.1 | 1179.9 | 1169.8 |
| 27.5° | 1344.5 | 1341.4 | 1331.3 | 1325.8 | 1320.2 | 1314.1 | 1304.0 | 1287.2 | 1275.6 | 1255.9 | 1245.2 |
| 30° | 1428.5 | 1428.1 | 1414.4 | 1413.4 | 1405.3 | 1398.7 | 1391.6 | 1377.4 | 1365.7 | 1346.0 | 1333.3 |
| 32.5° | 1518.2 | 1516.1 | 1506.5 | 1503.5 | 1509.1 | 1504.5 | 1494.4 | 1479.7 | 1464.5 | 1452.8 | 1438.7 |
| 35° | 1645.8 | 1642.3 | 1636.7 | 1639.2 | 1642.7 | 1655.4 | 1639.7 | 1627.0 | 1608.8 | 1593.6 | 1573.9 |
| 37.5° | 1739.0 | 1733.9 | 1740.5 | 1754.6 | 1774.9 | 1784.5 | 1798.2 | 1798.7 | 1790.1 | 1769.8 | 1752.7 |
| 40° | 1824.5 | 1822.5 | 1837.7 | 1857.5 | 1894.9 | 1922.3 | 1948.1 | 1960.7 | 1963.8 | 1950.7 | 1924.8 |
| 42.5° | 1897.0 | 1903.0 | 1923.3 | 1953.7 | 2006.3 | 2047.9 | 2096.0 | 2125.9 | 2144.6 | 2137.5 | 2125.9 |
| 45° | 1983.1 | 1986.1 | 2010.9 | 2049.4 | 2099.5 | 2168.4 | 2231.7 | 2282.3 | 2315.2 | 2314.7 | 2301.5 |
| 47.5° | 2090.9 | 2091.4 | 2112.7 | 2157.7 | 2211.4 | 2281.3 | 2361.3 | 2428.7 | 2472.2 | 2474.2 | 2464.1 |
| 50° | 2219.0 | 2218.0 | 2241.3 | 2283.8 | 2341.1 | 2408.4 | 2493.5 | 2577.5 | 2638.3 | 2638.3 | 2623.6 |
| 52.5° | 2384.1 | 2382.1 | 2394.7 | 2432.2 | 2487.4 | 2558.3 | 2642.9 | 2740.1 | 2806.0 | 2820.1 | 2788.2 |
| 55° | 2604.4 | 2607.4 | 2610.5 | 2643.4 | 2690.5 | 2746.7 | 2843.9 | 2933.5 | 3021.7 | 3029.8 | 3011.0 |
| 57.5° | 2859.1 | 2849.0 | 2870.8 | 2924.4 | 2978.1 | 3048.5 | 3117.4 | 3223.2 | 3327.5 | 3345.2 | 3342.7 |
| 60° | 3257.1 | 3244.0 | 3266.2 | 3334.6 | 3393.8 | 3504.8 | 3622.7 | 3759.5 | 3883.0 | 3919.5 | 3875.5 |
| 62.5° | 3623.3 | 3639.5 | 3669.8 | 3749.3 | 3835.4 | 3983.3 | 4160.5 | 4395.0 | 4629.5 | 4757.1 | 4748.0 |
| 65° | 3590.3 | 3575.2 | 3633.4 | 3741.7 | 3897.7 | 4086.1 | 4306.4 | 4588.9 | 4926.7 | 5182.9 | 5205.7 |
| 66° | 3468.3 | 3452.6 | 3515.4 | 3639.5 | 3817.7 | 4027.4 | 4271.9 | 4559.6 | 4904.9 | 5194.6 | 5229.5 |
| 67.5° | 3266.8 | 3251.0 | 3322.0 | 3434.9 | 3618.7 | 3882.5 | 4146.8 | 4461.4 | 4820.3 | 5097.9 | 5126.2 |
| 70° | 2877.8 | 2856.6 | 2911.7 | 3039.4 | 3188.3 | 3443.5 | 3695.2 | 4028.3 | 4397.0 | 4618.8 | 4629.5 |
| 72.5° | 2437.8 | 2388.2 | 2446.9 | 2545.1 | 2651.5 | 2862.7 | 3081.9 | 3309.8 | 3603.5 | 3808.6 | 3867.4 |
| 75° | 1768.9 | 1794.7 | 1811.9 | 1876.7 | 1947.1 | 2121.8 | 2250.4 | 2441.3 | 2668.7 | 2817.1 | 2864.2 |
| 77.5° | 938.3 | 977.3 | 1001.6 | 1066.4 | 1183.0 | 1316.1 | 1455.4 | 1573.4 | 1722.8 | 1805.8 | 1863.5 |
| 80° | 526.7 | 554.0 | 593.5 | 644.6 | 701.3 | 803.6 | 886.2 | 947.0 | 968.2 | 982.9 | 996.1 |
| 82.5° | 289.7 | 359.0 | 417.8 | 453.2 | 486.7 | 527.6 | 576.8 | 627.4 | 643.6 | 619.3 | 606.7 |
| 85° | 45.1 | 66.4 | 202.1 | 246.6 | 268.4 | 299.8 | 335.2 | 372.7 | 373.2 | 321.1 | 350.4 |
| 87.5° | 12.7 | 14.2 | 28.9 | 43.6 | 42.5 | 34.4 | 42.5 | 77.5 | 45.6 | 22.8 | 26.3 |
| 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-E03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 |
| 2.5° | 1017.8 | 1018.9 | 1021.4 | 1023.9 | 1026.5 | 1029.0 | 1030.5 | 1033.0 | 1035.1 | 1038.1 | 1041.7 |
| 5° | 1013.8 | 1016.3 | 1020.9 | 1026.5 | 1031.5 | 1036.1 | 1039.6 | 1044.7 | 1049.2 | 1053.3 | 1059.4 |
| 7.5° | 1013.8 | 1018.9 | 1026.5 | 1032.5 | 1037.1 | 1042.7 | 1048.3 | 1053.3 | 1058.3 | 1062.4 | 1066.4 |
| 10° | 1014.3 | 1019.4 | 1027.0 | 1034.0 | 1039.1 | 1045.2 | 1049.8 | 1054.3 | 1059.9 | 1062.4 | 1067.5 |
| 12.5° | 1016.3 | 1018.4 | 1023.9 | 1031.0 | 1037.1 | 1043.2 | 1047.7 | 1052.3 | 1058.3 | 1059.4 | 1062.9 |
| 15° | 1026.5 | 1023.4 | 1024.9 | 1030.0 | 1036.6 | 1041.7 | 1046.7 | 1050.2 | 1054.3 | 1053.3 | 1056.4 |
| 17.5° | 1045.2 | 1037.6 | 1034.6 | 1035.1 | 1038.1 | 1041.7 | 1043.7 | 1044.2 | 1044.7 | 1040.2 | 1040.6 |
| 20° | 1070.5 | 1059.9 | 1052.8 | 1049.2 | 1045.2 | 1041.7 | 1036.1 | 1029.5 | 1023.4 | 1014.3 | 1013.3 |
| 22.5° | 1108.5 | 1092.8 | 1085.2 | 1075.6 | 1063.4 | 1048.3 | 1034.6 | 1018.4 | 1005.2 | 991.5 | 986.5 |
| 25° | 1163.7 | 1147.5 | 1139.4 | 1124.2 | 1102.4 | 1080.7 | 1060.9 | 1039.1 | 1019.9 | 1003.7 | 996.1 |
| 27.5° | 1237.6 | 1221.4 | 1212.8 | 1197.1 | 1170.3 | 1148.5 | 1121.2 | 1097.9 | 1074.5 | 1050.8 | 1041.1 |
| 30° | 1327.3 | 1313.1 | 1303.4 | 1290.8 | 1267.5 | 1243.7 | 1211.8 | 1175.8 | 1138.9 | 1100.9 | 1082.2 |
| 32.5° | 1433.1 | 1417.4 | 1410.3 | 1395.6 | 1371.3 | 1346.5 | 1311.1 | 1265.0 | 1203.2 | 1143.4 | 1106.0 |
| 35° | 1565.3 | 1547.5 | 1539.4 | 1520.2 | 1491.8 | 1455.4 | 1417.4 | 1355.6 | 1272.1 | 1189.0 | 1127.8 |
| 37.5° | 1742.0 | 1702.5 | 1675.7 | 1631.6 | 1586.0 | 1534.9 | 1480.7 | 1417.4 | 1318.7 | 1215.8 | 1130.8 |
| 40° | 1898.5 | 1858.4 | 1806.8 | 1743.5 | 1672.6 | 1602.2 | 1540.4 | 1468.6 | 1361.2 | 1235.1 | 1121.2 |
| 42.5° | 2092.9 | 2022.1 | 1939.5 | 1853.9 | 1759.7 | 1673.1 | 1599.7 | 1515.1 | 1390.1 | 1240.1 | 1094.3 |
| 45° | 2270.7 | 2186.1 | 2075.7 | 1961.8 | 1844.8 | 1735.9 | 1653.4 | 1559.2 | 1414.9 | 1240.1 | 1061.9 |
| 47.5° | 2432.7 | 2331.4 | 2199.3 | 2057.5 | 1921.3 | 1802.3 | 1708.6 | 1604.3 | 1449.8 | 1255.9 | 1052.3 |
| 50° | 2582.6 | 2466.1 | 2315.8 | 2151.2 | 1998.2 | 1871.1 | 1770.4 | 1662.0 | 1503.0 | 1296.4 | 1075.6 |
| 52.5° | 2740.6 | 2617.0 | 2433.7 | 2259.0 | 2090.4 | 1954.2 | 1846.8 | 1733.4 | 1571.8 | 1360.2 | 1116.6 |
| 55° | 2947.7 | 2802.9 | 2594.8 | 2402.3 | 2217.0 | 2066.6 | 1944.5 | 1819.0 | 1647.3 | 1432.1 | 1166.8 |
| 57.5° | 3274.3 | 3064.2 | 2856.1 | 2605.9 | 2431.2 | 2233.2 | 2099.5 | 1955.2 | 1769.8 | 1525.7 | 1242.2 |
| 60° | 3846.1 | 3587.8 | 3337.6 | 3050.0 | 2834.3 | 2627.2 | 2425.1 | 2236.7 | 2013.4 | 1737.4 | 1407.8 |
| 62.5° | 4662.4 | 4400.0 | 4007.1 | 3655.1 | 3329.5 | 3055.1 | 2791.7 | 2552.2 | 2265.6 | 1963.8 | 1611.8 |
| 65° | 5150.0 | 4849.7 | 4381.3 | 3908.3 | 3512.9 | 3172.6 | 2871.2 | 2578.1 | 2268.7 | 1974.4 | 1673.6 |
| 66° | 5189.0 | 4904.9 | 4404.6 | 3904.8 | 3494.1 | 3141.2 | 2827.7 | 2524.4 | 2207.4 | 1925.8 | 1653.4 |
| 67.5° | 5116.6 | 4872.0 | 4357.0 | 3835.9 | 3416.2 | 3034.8 | 2712.8 | 2394.7 | 2076.2 | 1815.4 | 1586.0 |
| 70° | 4605.7 | 4428.9 | 3987.4 | 3499.2 | 3080.4 | 2744.2 | 2404.4 | 2098.5 | 1796.7 | 1577.4 | 1407.3 |
| 72.5° | 3775.7 | 3551.9 | 3242.9 | 2914.8 | 2585.2 | 2286.9 | 1978.0 | 1717.7 | 1464.5 | 1305.0 | 1184.5 |
| 75° | 2773.5 | 2572.0 | 2231.7 | 2027.1 | 1809.4 | 1622.0 | 1413.8 | 1167.2 | 987.5 | 907.4 | 878.1 |
| 77.5° | 1758.2 | 1539.4 | 1252.3 | 1026.5 | 882.7 | 758.6 | 598.1 | 475.5 | 380.8 | 396.5 | 439.0 |
| 80° | 888.2 | 765.2 | 572.8 | 452.2 | 391.0 | 325.1 | 257.2 | 194.9 | 142.3 | 162.5 | 183.8 |
| 82.5° | 570.2 | 476.0 | 379.3 | 298.8 | 252.2 | 222.3 | 177.7 | 129.1 | 96.2 | 108.4 | 132.7 |
| 85° | 343.3 | 290.2 | 231.4 | 189.4 | 164.6 | 137.2 | 100.8 | 71.4 | 70.9 | 76.0 | 93.7 |
| 87.5° | 52.1 | 74.5 | 43.0 | 46.1 | 48.6 | 52.1 | 46.1 | 39.0 | 33.9 | 44.0 | 55.7 |
| 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-E03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 | 1031.0 |
| 2.5° | 1045.2 | 1046.2 | 1048.3 | 1050.8 | 1050.2 | 1053.8 | 1055.8 | 1053.8 | 1058.3 | 1058.3 | 1060.9 |
| 5° | 1064.5 | 1066.0 | 1069.5 | 1072.0 | 1073.0 | 1076.1 | 1077.1 | 1076.6 | 1077.6 | 1078.1 | 1079.1 |
| 7.5° | 1070.0 | 1074.1 | 1075.6 | 1077.1 | 1077.6 | 1078.6 | 1078.6 | 1077.6 | 1077.6 | 1077.1 | 1078.1 |
| 10° | 1068.5 | 1070.0 | 1071.0 | 1070.5 | 1070.5 | 1069.5 | 1069.0 | 1068.5 | 1068.5 | 1067.5 | 1069.0 |
| 12.5° | 1063.4 | 1063.4 | 1063.4 | 1062.4 | 1062.4 | 1061.9 | 1061.9 | 1061.9 | 1062.9 | 1063.4 | 1066.0 |
| 15° | 1053.3 | 1053.3 | 1054.3 | 1053.8 | 1055.3 | 1057.9 | 1060.9 | 1062.9 | 1065.5 | 1066.0 | 1067.5 |
| 17.5° | 1037.6 | 1038.1 | 1041.1 | 1047.7 | 1054.3 | 1061.9 | 1067.5 | 1069.0 | 1067.0 | 1061.9 | 1058.3 |
| 20° | 1010.3 | 1016.8 | 1029.0 | 1044.7 | 1059.4 | 1069.0 | 1071.5 | 1065.5 | 1055.8 | 1042.7 | 1035.6 |
| 22.5° | 986.0 | 999.1 | 1020.9 | 1046.7 | 1064.9 | 1071.5 | 1063.9 | 1049.8 | 1032.5 | 1017.4 | 1006.7 |
| 25° | 995.6 | 1010.8 | 1033.6 | 1055.8 | 1067.5 | 1063.9 | 1048.7 | 1028.5 | 1010.3 | 992.5 | 975.3 |
| 27.5° | 1036.1 | 1051.3 | 1067.5 | 1074.1 | 1070.0 | 1056.8 | 1035.6 | 1013.8 | 989.5 | 964.2 | 942.9 |
| 30° | 1074.5 | 1083.2 | 1084.2 | 1077.6 | 1062.9 | 1041.7 | 1016.8 | 991.5 | 960.7 | 930.2 | 903.4 |
| 32.5° | 1086.7 | 1076.6 | 1058.3 | 1039.6 | 1019.4 | 997.6 | 968.8 | 935.3 | 902.4 | 868.0 | 838.1 |
| 35° | 1083.2 | 1042.1 | 997.1 | 957.1 | 932.8 | 908.0 | 881.6 | 837.1 | 800.1 | 770.8 | 751.5 |
| 37.5° | 1051.3 | 976.3 | 907.0 | 848.7 | 810.7 | 781.4 | 742.4 | 705.4 | 673.5 | 660.4 | 644.6 |
| 40° | 1006.7 | 892.3 | 796.1 | 714.5 | 675.0 | 637.6 | 594.0 | 565.6 | 556.5 | 544.4 | 544.9 |
| 42.5° | 942.9 | 794.0 | 670.0 | 576.3 | 533.2 | 492.2 | 461.3 | 444.6 | 445.1 | 435.0 | 437.0 |
| 45° | 875.6 | 695.3 | 539.3 | 446.2 | 403.6 | 368.6 | 351.4 | 346.4 | 346.9 | 347.4 | 344.3 |
| 47.5° | 834.5 | 618.3 | 432.5 | 338.3 | 300.8 | 281.0 | 271.9 | 269.4 | 269.9 | 270.4 | 266.9 |
| 50° | 828.5 | 578.3 | 361.1 | 258.8 | 234.5 | 223.3 | 218.8 | 216.2 | 216.2 | 214.2 | 211.1 |
| 52.5° | 845.7 | 568.2 | 326.1 | 224.3 | 201.1 | 190.9 | 187.4 | 185.3 | 182.3 | 178.3 | 172.7 |
| 55° | 873.0 | 577.3 | 315.5 | 212.7 | 189.9 | 179.8 | 175.2 | 174.2 | 169.1 | 161.5 | 152.4 |
| 57.5° | 923.6 | 610.2 | 322.6 | 215.7 | 191.9 | 182.8 | 179.8 | 178.7 | 171.7 | 160.0 | 148.4 |
| 60° | 1069.0 | 705.9 | 358.0 | 232.9 | 206.6 | 199.0 | 199.0 | 197.5 | 187.9 | 171.2 | 154.4 |
| 62.5° | 1269.5 | 846.2 | 406.1 | 256.7 | 226.9 | 225.8 | 234.5 | 235.0 | 217.7 | 190.9 | 164.6 |
| 65° | 1366.3 | 912.0 | 422.8 | 261.8 | 232.4 | 244.1 | 261.3 | 261.3 | 237.0 | 200.0 | 166.1 |
| 66° | 1366.7 | 910.5 | 417.8 | 255.7 | 226.4 | 241.6 | 259.3 | 259.3 | 233.9 | 197.5 | 163.6 |
| 67.5° | 1331.8 | 882.1 | 401.0 | 244.6 | 212.7 | 226.9 | 242.6 | 242.0 | 219.2 | 187.4 | 156.5 |
| 70° | 1194.6 | 780.4 | 353.5 | 226.4 | 196.5 | 197.0 | 202.6 | 199.0 | 183.8 | 162.1 | 142.3 |
| 72.5° | 1030.0 | 652.7 | 306.4 | 214.7 | 183.8 | 174.2 | 169.6 | 166.6 | 157.0 | 143.8 | 131.6 |
| 75° | 790.0 | 506.9 | 266.9 | 204.1 | 172.7 | 155.9 | 149.9 | 147.4 | 140.8 | 133.2 | 123.5 |
| 77.5° | 484.1 | 347.4 | 226.4 | 186.8 | 160.0 | 144.8 | 138.2 | 133.2 | 126.6 | 119.5 | 112.9 |
| 80° | 208.6 | 209.6 | 181.3 | 158.5 | 139.3 | 121.6 | 112.9 | 106.9 | 103.3 | 100.8 | 97.2 |
| 82.5° | 145.9 | 150.4 | 138.2 | 123.1 | 106.3 | 93.7 | 86.1 | 84.5 | 85.1 | 85.1 | 84.1 |
| 85° | 109.4 | 107.3 | 96.7 | 88.1 | 80.5 | 72.4 | 66.4 | 65.8 | 67.9 | 67.9 | 66.4 |
| 87.5° | 63.3 | 63.8 | 54.7 | 51.1 | 53.2 | 45.6 | 41.5 | 42.1 | 47.1 | 46.6 | 45.6 |
| 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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