

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: P157786

Luminaire Tested: **VST-F04-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157786
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F04-LED-E-U-5XQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10715.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

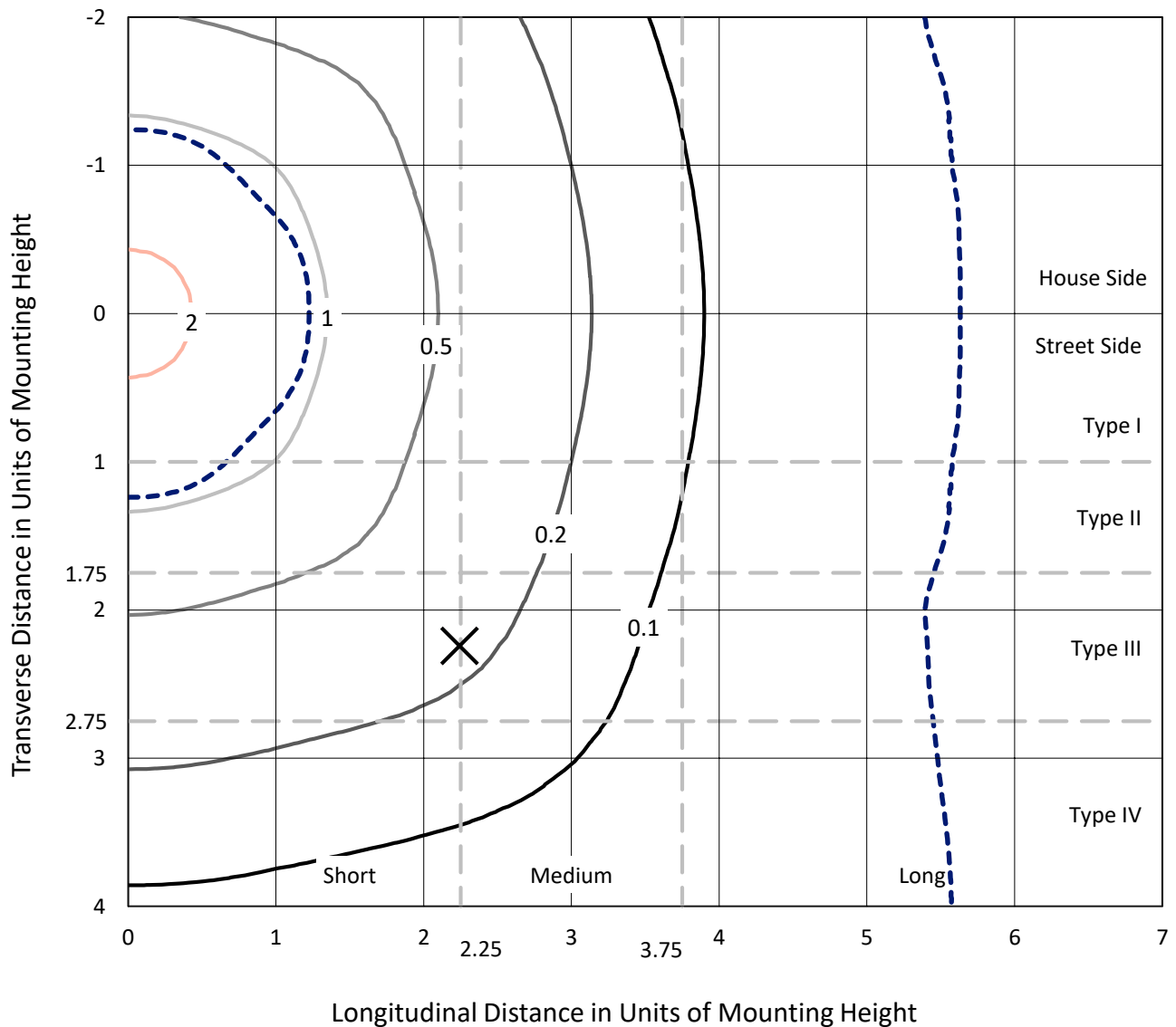
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

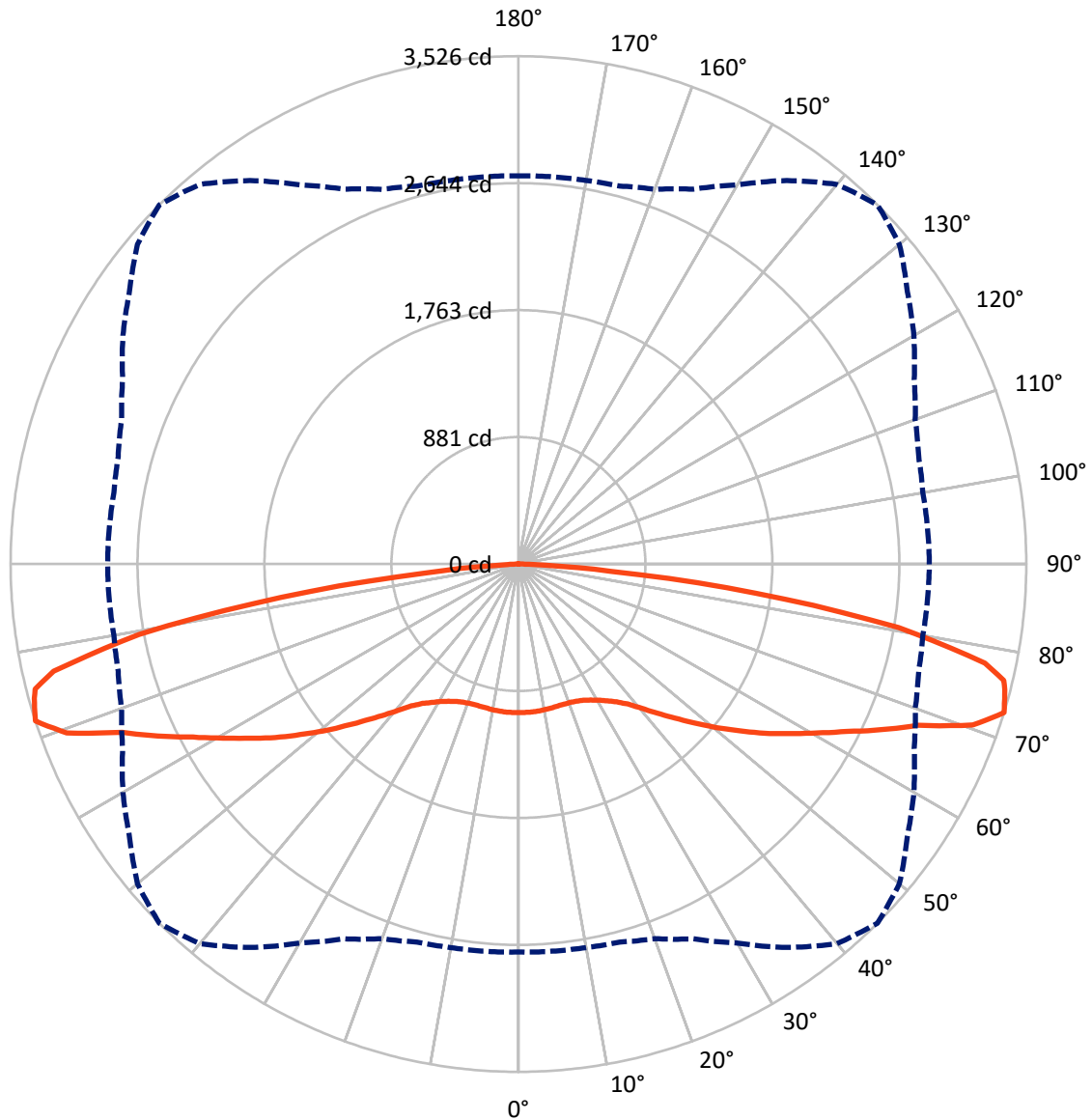


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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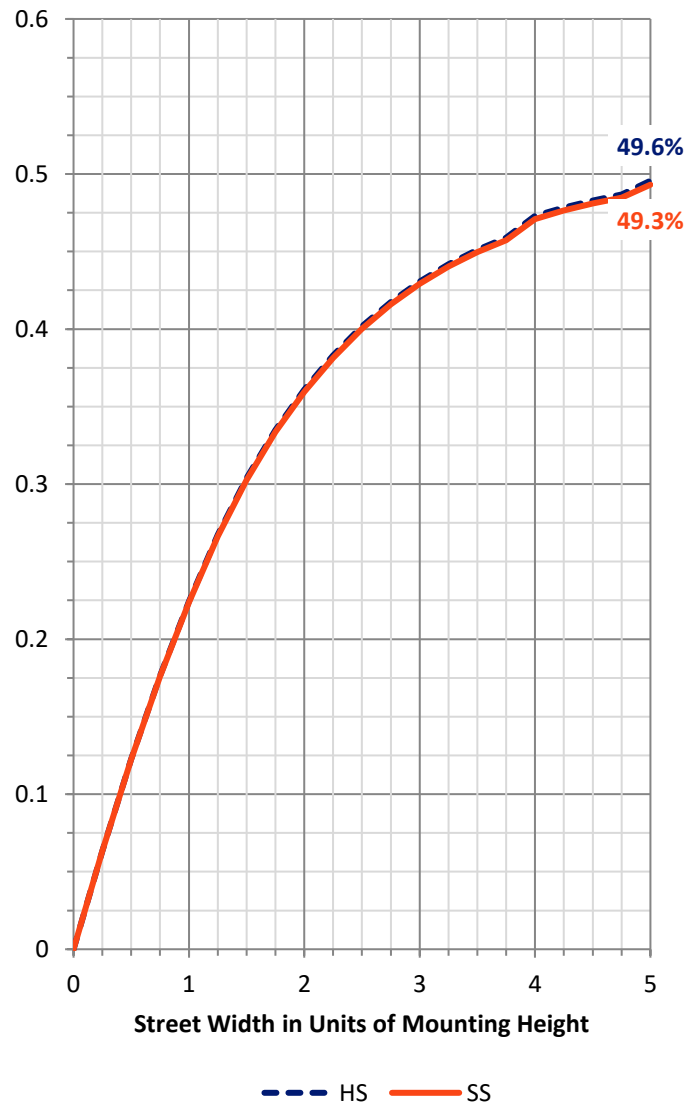
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5355.3 | 2.7 | 5358.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5355.3 | 2.7 | 5358.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10710.6 | 5.4 | 10715.9 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 98.4 | 0.9 |
| 10°-20° | 290.6 | 2.7 |
| 20°-30° | 486.0 | 4.5 |
| 30°-40° | 738.7 | 6.9 |
| 40°-50° | 1170.0 | 10.9 |
| 50°-60° | 1789.7 | 16.7 |
| 60°-70° | 2561.3 | 23.9 |
| 70°-80° | 2930.7 | 27.3 |
| 80°-90° | 645.0 | 6.0 |
| 90°-100° | 0.6 | 0.0 |
| 100°-110° | 1.1 | 0.0 |
| 110°-120° | 0.8 | 0.0 |
| 120°-130° | 0.9 | 0.0 |
| 130°-140° | 0.8 | 0.0 |
| 140°-150° | 0.6 | 0.0 |
| 150°-160° | 0.4 | 0.0 |
| 160°-170° | 0.2 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 10710.6 | 99.9 |
| 0°-180° | 10715.9 | 100.0 |



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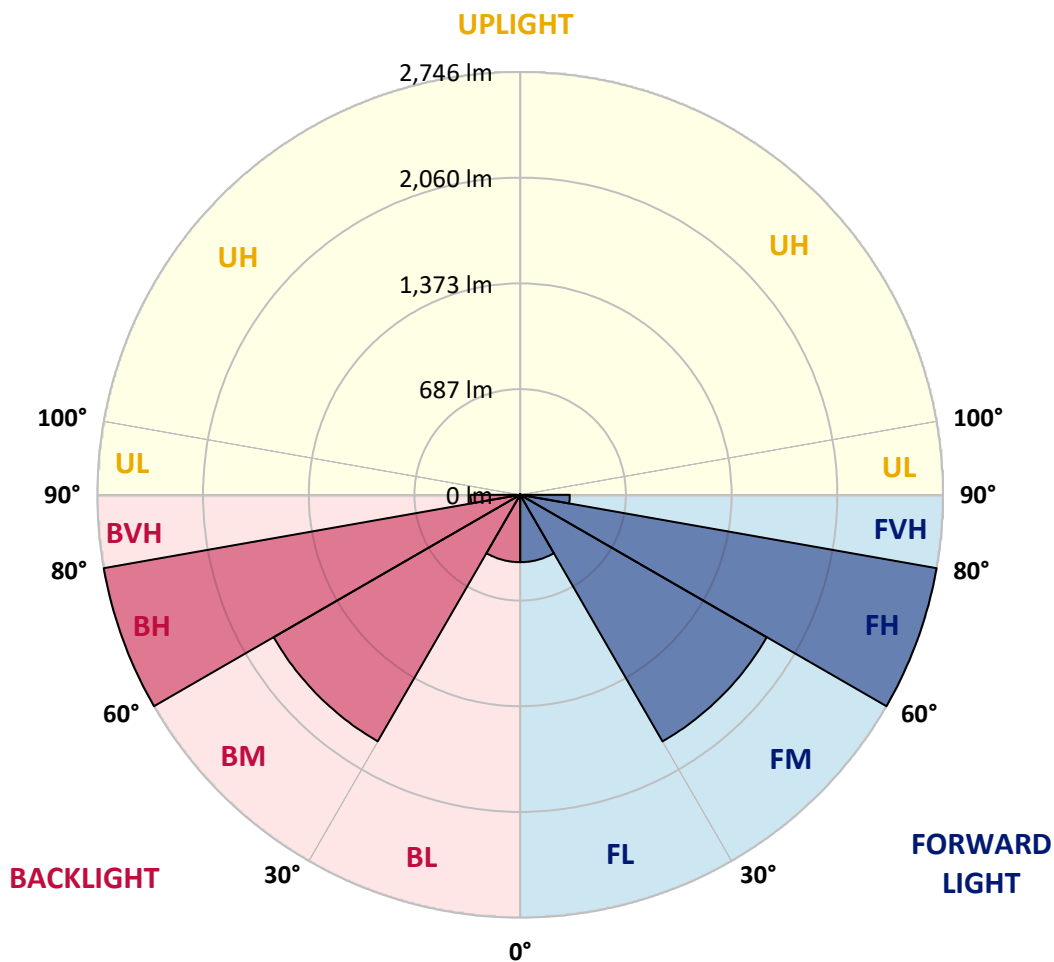
CATALOG NUMBER: VST-F04-LED-E-U-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 437.5 | 4.1 | | | |
| FM | (30°-60°) | 1849.2 | 17.3 | | | |
| FH | (60°-80°) | 2746.0 | 25.6 | | | G2/5000 |
| FVH | (80°-90°) | 322.5 | 3.0 | | | G3/500 |
| BL | (0°-30°) | 437.5 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 1849.2 | 17.3 | B2/2500 | | |
| BH | (60°-80°) | 2746.0 | 25.6 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 322.5 | 3.0 | | | G3/500 |
| UL | (90°-100°) | 0.6 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 2.7 | 0.0 | | U1/10 | |

BUG Rating: B4-U1-G3

Type V Short





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CATALOG NUMBER: VST-F04-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 |
| 2.5° | 1032.1 | 1030.7 | 1031.4 | 1032.8 | 1032.1 | 1032.1 | 1031.4 | 1031.4 | 1032.8 | 1031.4 | 1032.1 |
| 5° | 1032.8 | 1031.4 | 1032.1 | 1032.8 | 1032.1 | 1032.8 | 1032.1 | 1032.1 | 1032.1 | 1031.4 | 1032.8 |
| 7.5° | 1030.0 | 1030.0 | 1030.7 | 1030.7 | 1030.0 | 1030.7 | 1030.7 | 1030.7 | 1030.0 | 1030.0 | 1031.4 |
| 10° | 1028.7 | 1028.0 | 1028.0 | 1028.7 | 1028.0 | 1028.0 | 1028.7 | 1028.7 | 1027.3 | 1027.3 | 1028.7 |
| 12.5° | 1026.7 | 1026.0 | 1026.0 | 1026.0 | 1025.3 | 1025.3 | 1026.0 | 1026.0 | 1025.3 | 1024.6 | 1026.7 |
| 15° | 1025.3 | 1024.6 | 1024.6 | 1024.6 | 1023.3 | 1023.9 | 1023.9 | 1023.9 | 1023.3 | 1022.6 | 1024.6 |
| 17.5° | 1024.6 | 1023.9 | 1023.9 | 1023.9 | 1023.3 | 1023.3 | 1023.3 | 1023.3 | 1022.6 | 1022.6 | 1023.9 |
| 20° | 1026.0 | 1026.0 | 1026.0 | 1026.0 | 1025.3 | 1025.3 | 1025.3 | 1026.0 | 1026.0 | 1026.0 | 1027.3 |
| 22.5° | 1029.4 | 1029.4 | 1030.0 | 1030.7 | 1030.7 | 1032.1 | 1032.8 | 1033.4 | 1033.4 | 1034.1 | 1035.5 |
| 25° | 1038.2 | 1038.2 | 1038.9 | 1039.5 | 1041.6 | 1042.9 | 1045.6 | 1047.0 | 1047.7 | 1047.7 | 1048.3 |
| 27.5° | 1054.4 | 1055.1 | 1056.5 | 1057.8 | 1060.5 | 1062.6 | 1065.3 | 1068.0 | 1068.7 | 1069.3 | 1070.0 |
| 30° | 1074.8 | 1075.4 | 1078.2 | 1079.5 | 1082.9 | 1087.0 | 1090.4 | 1093.1 | 1095.1 | 1096.5 | 1095.8 |
| 32.5° | 1103.9 | 1105.3 | 1108.7 | 1110.7 | 1115.4 | 1119.5 | 1124.2 | 1128.3 | 1130.3 | 1132.4 | 1131.7 |
| 35° | 1144.6 | 1148.0 | 1151.3 | 1153.4 | 1158.1 | 1161.5 | 1167.6 | 1171.7 | 1175.7 | 1174.4 | 1175.1 |
| 37.5° | 1204.9 | 1207.6 | 1208.3 | 1209.6 | 1214.4 | 1217.1 | 1223.9 | 1229.3 | 1231.3 | 1232.7 | 1233.3 |
| 40° | 1286.2 | 1286.2 | 1289.6 | 1286.9 | 1293.0 | 1293.7 | 1301.8 | 1309.2 | 1311.3 | 1316.7 | 1312.6 |
| 42.5° | 1381.1 | 1380.4 | 1382.4 | 1380.4 | 1380.4 | 1387.2 | 1393.9 | 1407.5 | 1408.9 | 1415.6 | 1411.6 |
| 45° | 1484.1 | 1484.1 | 1482.0 | 1482.7 | 1484.1 | 1491.5 | 1499.7 | 1514.6 | 1521.3 | 1525.4 | 1522.7 |
| 47.5° | 1595.9 | 1593.2 | 1592.5 | 1591.8 | 1595.9 | 1604.0 | 1616.2 | 1630.5 | 1647.4 | 1648.7 | 1647.4 |
| 50° | 1709.1 | 1708.4 | 1703.6 | 1707.7 | 1710.4 | 1714.5 | 1737.5 | 1756.5 | 1774.1 | 1785.0 | 1781.6 |
| 52.5° | 1828.3 | 1822.2 | 1822.2 | 1822.2 | 1829.0 | 1841.9 | 1862.2 | 1888.0 | 1911.7 | 1923.2 | 1921.2 |
| 55° | 1949.0 | 1946.9 | 1940.8 | 1938.1 | 1946.9 | 1965.2 | 1994.4 | 2025.5 | 2056.7 | 2074.3 | 2067.5 |
| 57.5° | 2059.4 | 2056.0 | 2056.7 | 2057.4 | 2067.5 | 2091.9 | 2125.8 | 2167.2 | 2201.0 | 2220.0 | 2215.3 |
| 60° | 2146.2 | 2142.1 | 2149.5 | 2151.6 | 2169.9 | 2210.5 | 2264.7 | 2316.9 | 2361.6 | 2380.6 | 2373.2 |
| 62.5° | 2244.4 | 2241.7 | 2246.4 | 2245.8 | 2265.4 | 2310.8 | 2383.3 | 2466.7 | 2534.5 | 2558.8 | 2548.0 |
| 65° | 2403.0 | 2394.9 | 2392.8 | 2385.4 | 2398.2 | 2433.5 | 2506.0 | 2602.9 | 2711.3 | 2773.7 | 2758.8 |
| 67.5° | 2592.7 | 2590.7 | 2583.9 | 2579.9 | 2584.6 | 2628.6 | 2698.4 | 2792.0 | 2902.4 | 2988.5 | 3007.5 |
| 70° | 2718.1 | 2720.8 | 2727.6 | 2737.7 | 2777.1 | 2862.4 | 2989.8 | 3131.5 | 3283.3 | 3347.6 | 3336.1 |
| 72.5° | 2694.4 | 2698.4 | 2703.9 | 2716.7 | 2768.2 | 2870.6 | 3038.6 | 3250.1 | 3440.5 | 3525.9 | 3452.7 |
| 75° | 2578.5 | 2581.9 | 2594.1 | 2613.7 | 2676.8 | 2800.8 | 2981.7 | 3206.0 | 3402.5 | 3487.9 | 3411.3 |
| 76° | 2471.4 | 2482.3 | 2504.6 | 2527.7 | 2603.6 | 2738.4 | 2931.6 | 3170.8 | 3378.8 | 3465.6 | 3391.7 |
| 77.5° | 2228.8 | 2238.3 | 2256.6 | 2296.6 | 2382.7 | 2555.5 | 2781.1 | 3016.3 | 3233.1 | 3311.0 | 3248.7 |
| 80° | 1677.2 | 1685.3 | 1702.3 | 1750.4 | 1824.9 | 1932.0 | 2106.8 | 2336.6 | 2574.4 | 2676.8 | 2636.1 |
| 82.5° | 708.2 | 717.6 | 784.7 | 854.5 | 936.5 | 1052.4 | 1166.3 | 1369.6 | 1544.4 | 1660.9 | 1598.6 |
| 85° | 77.9 | 96.2 | 118.6 | 161.3 | 197.9 | 263.6 | 328.0 | 451.3 | 570.6 | 643.1 | 568.6 |
| 87.5° | 13.6 | 15.6 | 22.4 | 28.5 | 31.9 | 36.6 | 44.0 | 61.7 | 84.0 | 72.5 | 73.9 |
| 90° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 100° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 102.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 105° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 107.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 1.4 | 0.7 |



REPORT NUMBER: P157786

CATALOG NUMBER: VST-F04-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 112.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 115° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 117.5° | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 120° | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 122.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 125° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 127.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 130° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 132.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 135° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 137.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 140° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 142.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.7 |
| 147.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 150° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 |
| 155° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.7 |
| 157.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 160° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 165° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 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-F04-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 | 1031.4 |
| 2.5° | 1031.4 | 1031.4 | 1032.8 | 1032.1 | 1032.1 | 1032.8 | 1034.1 | 1033.4 |
| 5° | 1032.1 | 1032.8 | 1031.4 | 1032.1 | 1032.8 | 1032.8 | 1033.4 | 1032.8 |
| 7.5° | 1030.7 | 1030.7 | 1030.7 | 1031.4 | 1032.1 | 1031.4 | 1032.1 | 1032.1 |
| 10° | 1028.0 | 1028.7 | 1028.0 | 1029.4 | 1030.0 | 1030.0 | 1030.7 | 1030.7 |
| 12.5° | 1026.0 | 1026.0 | 1026.0 | 1027.3 | 1028.0 | 1028.0 | 1028.7 | 1028.0 |
| 15° | 1023.9 | 1023.9 | 1023.3 | 1024.6 | 1026.0 | 1026.0 | 1026.7 | 1026.7 |
| 17.5° | 1023.3 | 1023.3 | 1022.6 | 1023.9 | 1025.3 | 1025.3 | 1026.0 | 1026.0 |
| 20° | 1025.3 | 1026.0 | 1024.6 | 1026.0 | 1027.3 | 1028.0 | 1028.0 | 1028.0 |
| 22.5° | 1033.4 | 1032.8 | 1030.7 | 1031.4 | 1032.1 | 1032.1 | 1032.1 | 1032.1 |
| 25° | 1045.6 | 1044.3 | 1042.2 | 1041.6 | 1040.9 | 1040.2 | 1040.2 | 1040.2 |
| 27.5° | 1066.6 | 1064.6 | 1061.2 | 1060.5 | 1059.9 | 1058.5 | 1058.5 | 1058.5 |
| 30° | 1091.7 | 1089.0 | 1084.9 | 1083.6 | 1081.5 | 1080.2 | 1079.5 | 1078.8 |
| 32.5° | 1127.6 | 1122.2 | 1117.5 | 1114.1 | 1112.0 | 1108.0 | 1107.3 | 1105.9 |
| 35° | 1169.0 | 1164.9 | 1158.1 | 1156.1 | 1152.7 | 1150.7 | 1150.0 | 1146.6 |
| 37.5° | 1225.9 | 1221.1 | 1215.0 | 1213.7 | 1213.0 | 1211.0 | 1211.0 | 1210.3 |
| 40° | 1305.2 | 1300.4 | 1295.0 | 1289.6 | 1290.9 | 1291.6 | 1291.6 | 1288.9 |
| 42.5° | 1402.1 | 1394.6 | 1383.8 | 1387.2 | 1385.1 | 1382.4 | 1387.8 | 1384.5 |
| 45° | 1512.5 | 1502.4 | 1494.2 | 1490.9 | 1490.9 | 1487.5 | 1492.9 | 1492.9 |
| 47.5° | 1635.2 | 1618.9 | 1604.0 | 1604.7 | 1599.3 | 1600.6 | 1604.0 | 1608.8 |
| 50° | 1764.6 | 1742.9 | 1728.7 | 1721.9 | 1716.5 | 1718.5 | 1724.6 | 1726.0 |
| 52.5° | 1898.8 | 1872.4 | 1853.4 | 1843.2 | 1836.5 | 1839.2 | 1843.9 | 1848.0 |
| 55° | 2038.4 | 2009.3 | 1980.8 | 1970.0 | 1961.8 | 1967.2 | 1967.9 | 1973.3 |
| 57.5° | 2184.1 | 2144.1 | 2110.9 | 2094.6 | 2086.5 | 2091.9 | 2096.0 | 2101.4 |
| 60° | 2331.2 | 2285.1 | 2245.8 | 2226.8 | 2215.3 | 2222.7 | 2232.2 | 2234.9 |
| 62.5° | 2501.9 | 2438.2 | 2394.2 | 2367.1 | 2361.6 | 2369.1 | 2371.8 | 2379.9 |
| 65° | 2703.9 | 2627.3 | 2566.3 | 2533.1 | 2531.7 | 2535.8 | 2541.9 | 2543.9 |
| 67.5° | 2934.3 | 2848.9 | 2766.9 | 2733.7 | 2720.8 | 2733.0 | 2739.1 | 2747.2 |
| 70° | 3259.5 | 3142.3 | 3023.7 | 2949.9 | 2918.7 | 2909.2 | 2911.9 | 2920.7 |
| 72.5° | 3296.1 | 3170.1 | 3031.9 | 2931.6 | 2876.7 | 2851.6 | 2850.9 | 2852.3 |
| 75° | 3216.2 | 3014.9 | 2917.3 | 2802.1 | 2724.2 | 2683.5 | 2678.1 | 2677.4 |
| 76° | 3176.2 | 2938.3 | 2797.4 | 2705.9 | 2612.4 | 2571.0 | 2564.9 | 2561.6 |
| 77.5° | 3007.5 | 2752.0 | 2539.9 | 2484.3 | 2394.9 | 2342.7 | 2353.5 | 2344.7 |
| 80° | 2411.1 | 2157.7 | 1957.8 | 1801.2 | 1806.0 | 1768.0 | 1752.4 | 1747.7 |
| 82.5° | 1421.1 | 1213.0 | 992.1 | 862.7 | 739.3 | 706.8 | 608.5 | 586.2 |
| 85° | 454.0 | 321.9 | 195.2 | 141.6 | 96.2 | 80.6 | 63.0 | 57.6 |
| 87.5° | 60.3 | 47.4 | 38.6 | 37.3 | 33.9 | 29.1 | 19.0 | 13.6 |
| 90° | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 100° | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 102.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 |
| 105° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 107.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |



REPORT NUMBER: P157786

CATALOG NUMBER: VST-F04-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 112.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 115° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 117.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 120° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 122.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 125° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 127.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 130° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 132.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 135° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 137.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 140° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 142.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 145° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 147.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 150° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 152.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 155° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 157.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 160° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 162.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 165° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)