

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: INVUE

Report Number: P147710

Luminaire Tested: **VXS-E04-LED-E1-5WQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147710  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E04-LED-E1-5WQ  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12735.2 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 97.2  
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: 25 FT



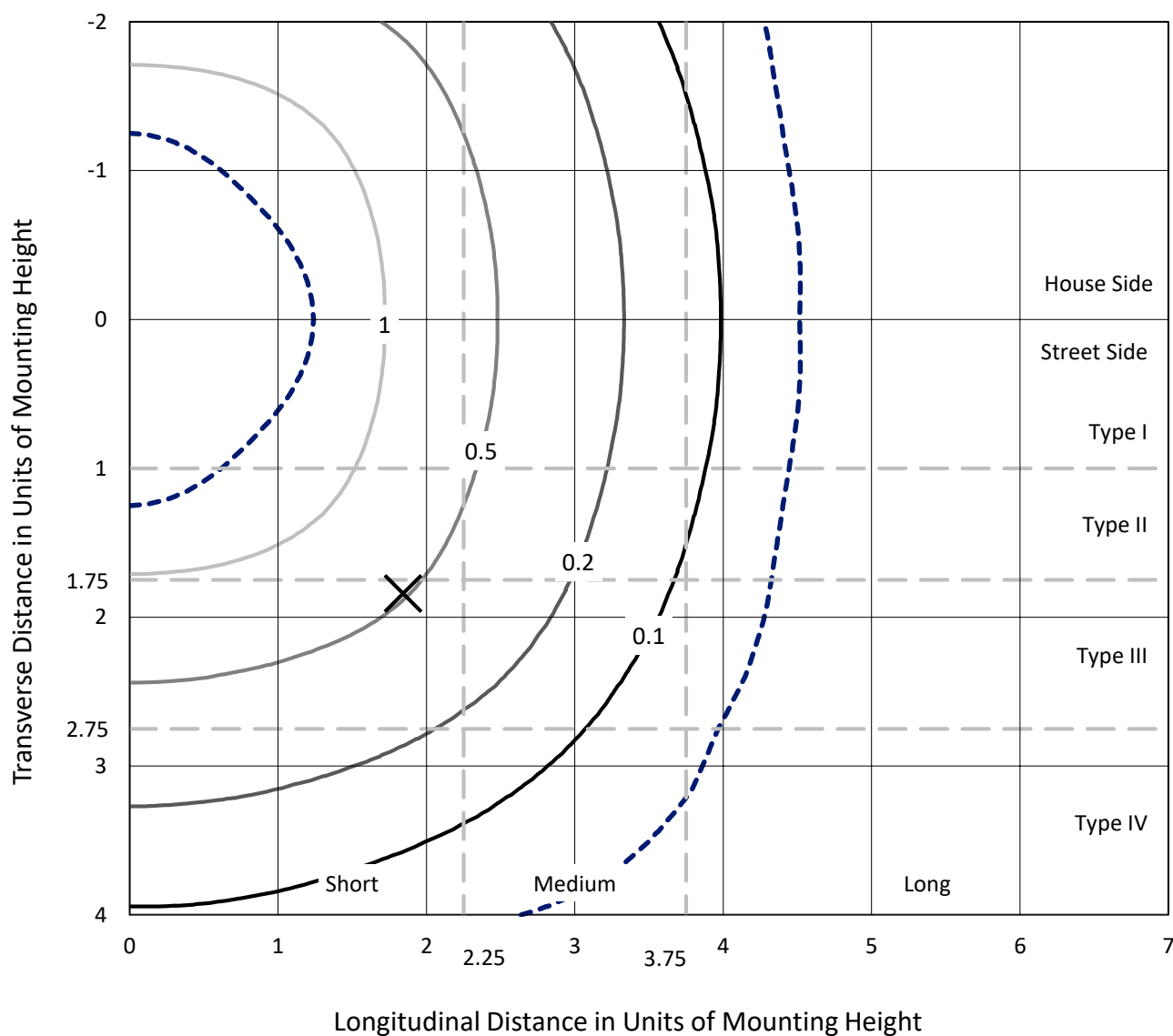
REPORT NUMBER: P147710

CATALOG NUMBER: VXS-E04-LED-E1-5WQ

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

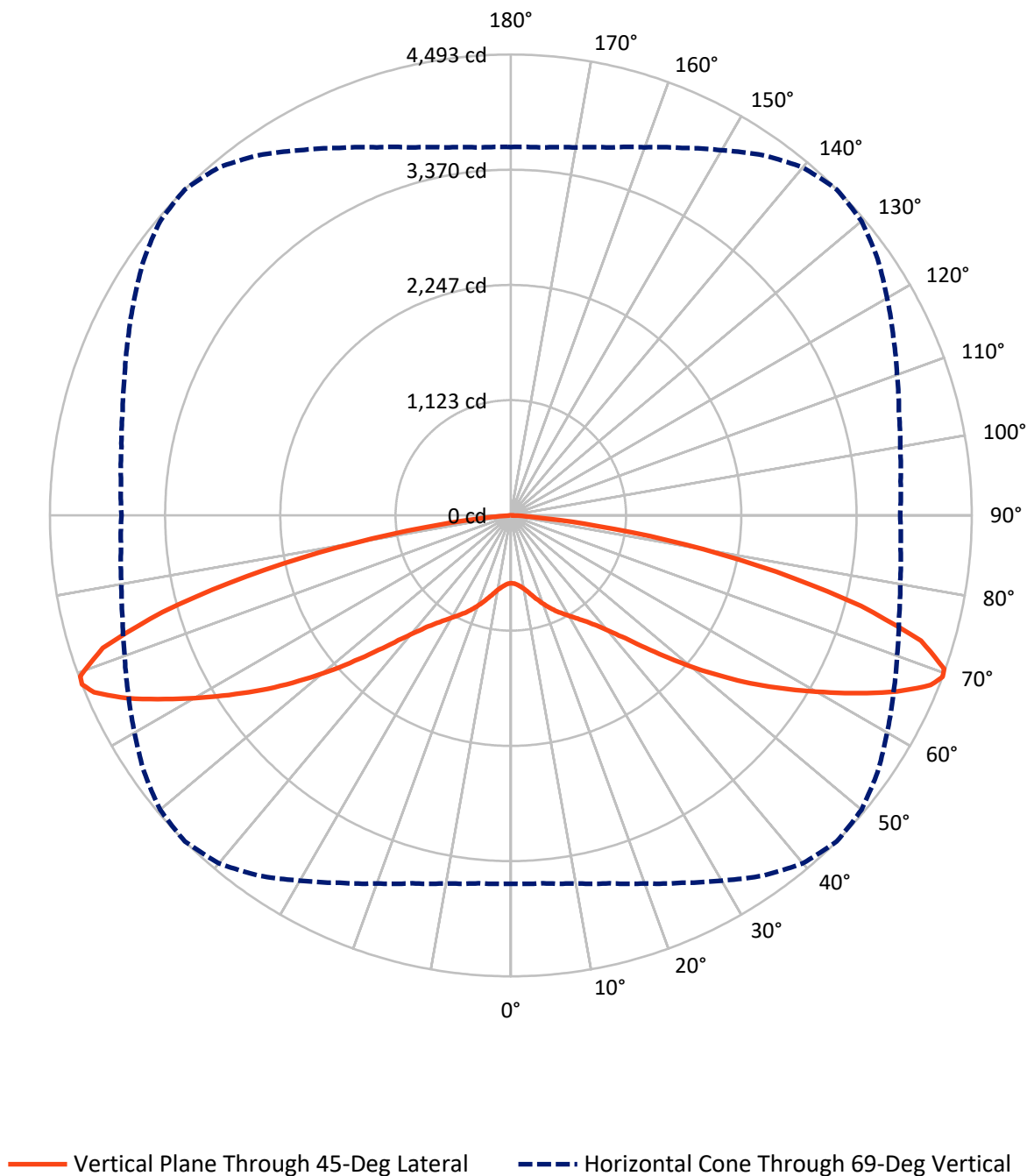


Based on 20 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P147710

CATALOG NUMBER: VXS-E04-LED-E1-5WQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P147710

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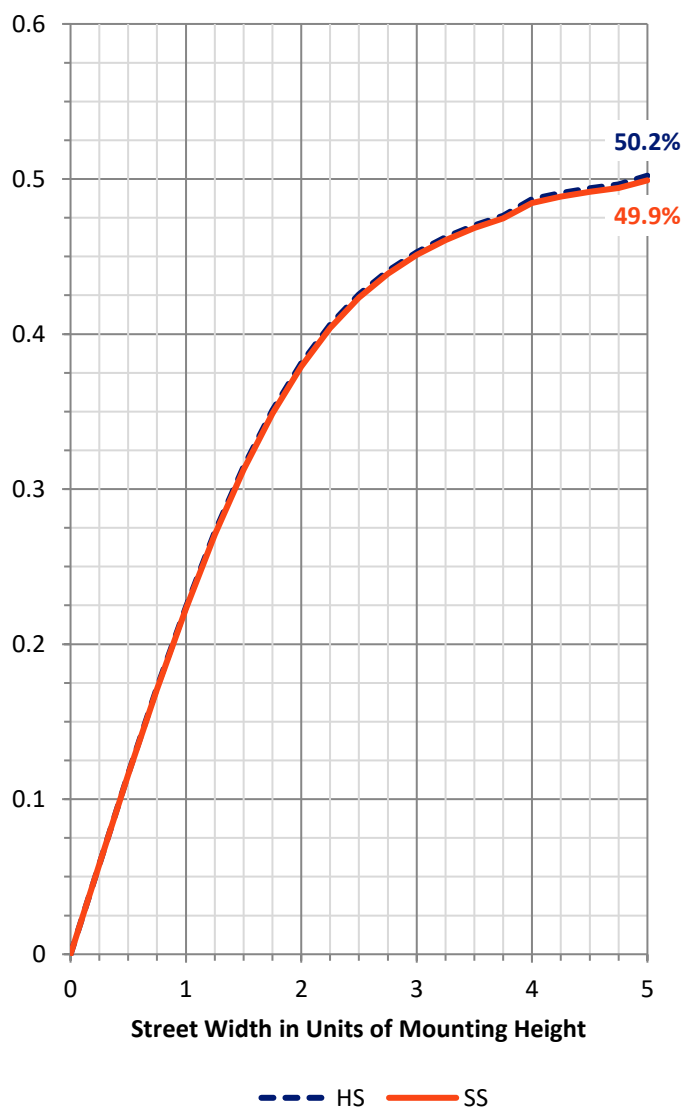
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6367.6   | 0.0    | 6367.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6367.6   | 0.0    | 6367.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12735.2  | 0.0    | 12735.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 66.4    | 0.5       |
| 10°-20°   | 234.5   | 1.8       |
| 20°-30°   | 474.8   | 3.7       |
| 30°-40°   | 796.1   | 6.3       |
| 40°-50°   | 1404.2  | 11.0      |
| 50°-60°   | 2476.3  | 19.4      |
| 60°-70°   | 3780.6  | 29.7      |
| 70°-80°   | 3159.1  | 24.8      |
| 80°-90°   | 343.3   | 2.7       |
| 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°    | 12735.2 | 100.0     |
| 0°-180°   | 12735.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P147710

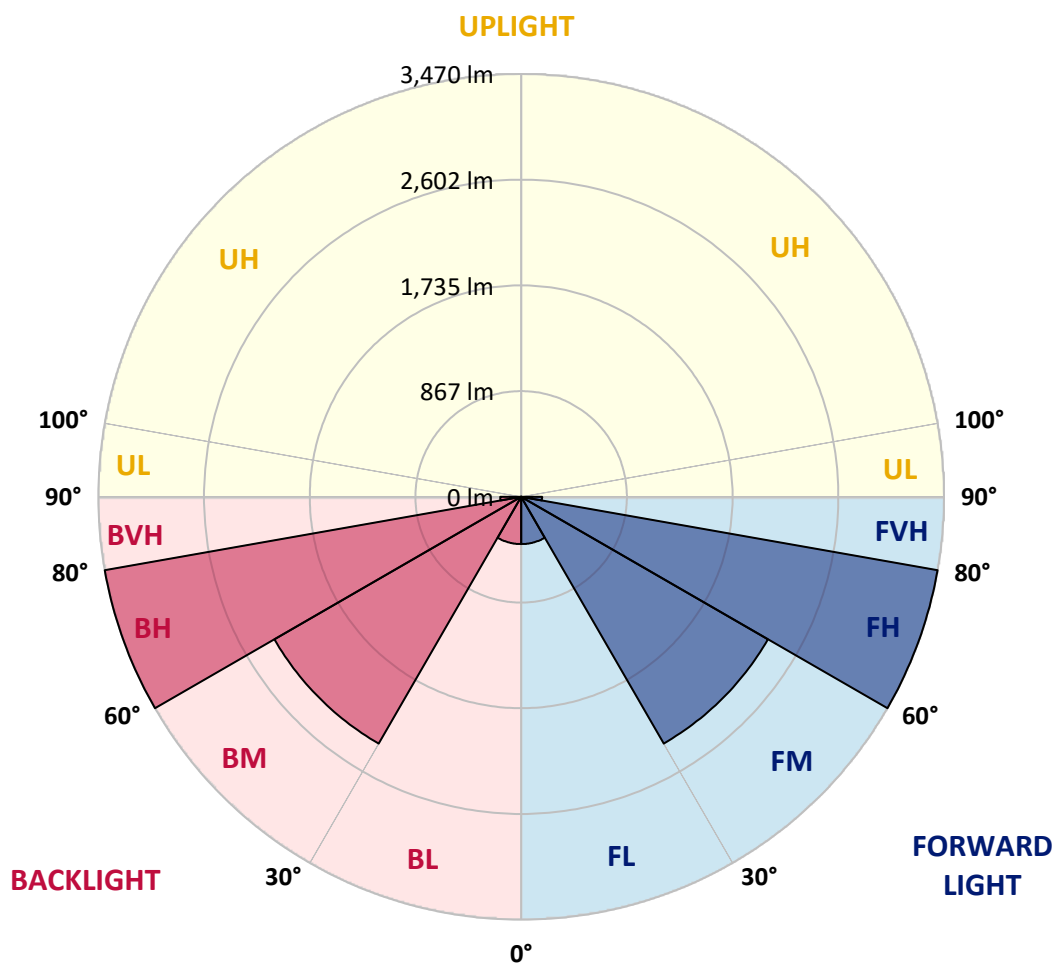
CATALOG NUMBER: VXS-E04-LED-E1-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 387.9  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 2338.3 | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 3469.8 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 171.6  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 387.9  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2338.3 | 18.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3469.8 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 171.6  | 1.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



REPORT NUMBER: P147710

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  |
| 2.5°  | 666.6  | 668.0  | 666.6  | 666.6  | 666.6  | 666.6  | 666.6  | 665.3  | 665.3  | 665.3  | 666.6  |
| 5°    | 680.0  | 681.3  | 680.0  | 681.3  | 681.3  | 681.3  | 681.3  | 680.0  | 680.0  | 680.0  | 680.0  |
| 7.5°  | 701.3  | 701.3  | 701.3  | 702.7  | 701.3  | 701.3  | 702.7  | 701.3  | 701.3  | 701.3  | 701.3  |
| 10°   | 732.0  | 730.7  | 730.7  | 730.7  | 730.7  | 730.7  | 732.0  | 732.0  | 732.0  | 730.7  | 730.7  |
| 12.5° | 769.3  | 768.0  | 769.3  | 769.3  | 770.7  | 770.7  | 770.7  | 770.7  | 770.7  | 770.7  | 769.3  |
| 15°   | 814.7  | 814.7  | 814.7  | 816.0  | 818.7  | 818.7  | 817.3  | 818.7  | 818.7  | 818.7  | 818.7  |
| 17.5° | 865.3  | 868.0  | 865.3  | 866.6  | 868.0  | 866.6  | 869.3  | 870.7  | 872.0  | 870.7  | 866.6  |
| 20°   | 917.3  | 918.7  | 918.7  | 918.7  | 918.7  | 921.3  | 922.7  | 922.7  | 926.6  | 925.3  | 924.0  |
| 22.5° | 966.6  | 969.3  | 969.3  | 970.7  | 970.7  | 974.7  | 974.7  | 974.7  | 977.3  | 980.0  | 977.3  |
| 25°   | 1018.7 | 1017.3 | 1017.3 | 1020.0 | 1021.3 | 1026.6 | 1026.6 | 1029.3 | 1033.4 | 1034.7 | 1032.0 |
| 27.5° | 1065.3 | 1064.0 | 1064.0 | 1068.0 | 1069.3 | 1076.0 | 1076.0 | 1081.3 | 1084.0 | 1085.3 | 1082.7 |
| 30°   | 1114.7 | 1114.7 | 1113.4 | 1117.3 | 1121.3 | 1126.6 | 1129.3 | 1134.7 | 1138.7 | 1140.0 | 1137.3 |
| 32.5° | 1173.4 | 1170.7 | 1172.0 | 1174.7 | 1177.3 | 1182.7 | 1186.6 | 1193.4 | 1198.7 | 1200.0 | 1197.3 |
| 35°   | 1240.0 | 1236.0 | 1237.3 | 1240.0 | 1244.0 | 1252.0 | 1258.7 | 1262.7 | 1270.7 | 1273.4 | 1268.0 |
| 37.5° | 1313.4 | 1314.7 | 1313.4 | 1320.0 | 1326.6 | 1336.0 | 1344.0 | 1349.3 | 1357.3 | 1361.3 | 1357.3 |
| 40°   | 1417.3 | 1413.4 | 1417.3 | 1424.0 | 1434.7 | 1446.6 | 1462.7 | 1466.6 | 1474.7 | 1482.7 | 1473.4 |
| 42.5° | 1552.0 | 1549.3 | 1558.7 | 1564.0 | 1576.0 | 1589.3 | 1609.3 | 1620.0 | 1632.0 | 1637.3 | 1629.3 |
| 45°   | 1728.0 | 1728.0 | 1738.7 | 1740.0 | 1758.7 | 1776.0 | 1804.0 | 1817.3 | 1840.0 | 1840.0 | 1840.0 |
| 47.5° | 1922.7 | 1930.7 | 1937.3 | 1950.7 | 1964.0 | 1996.0 | 2024.0 | 2053.4 | 2074.7 | 2077.3 | 2073.4 |
| 50°   | 2124.0 | 2132.0 | 2152.0 | 2170.7 | 2200.0 | 2240.0 | 2270.7 | 2309.3 | 2328.0 | 2344.0 | 2338.7 |
| 52.5° | 2346.6 | 2348.0 | 2372.0 | 2396.0 | 2438.7 | 2482.7 | 2532.0 | 2572.0 | 2605.3 | 2620.0 | 2608.0 |
| 55°   | 2590.7 | 2593.4 | 2614.7 | 2640.0 | 2688.0 | 2738.7 | 2800.0 | 2841.3 | 2884.0 | 2910.7 | 2890.7 |
| 57.5° | 2854.7 | 2856.0 | 2877.3 | 2908.0 | 2965.3 | 3016.0 | 3074.7 | 3133.4 | 3173.4 | 3197.3 | 3184.0 |
| 60°   | 3146.6 | 3153.4 | 3169.3 | 3208.0 | 3262.7 | 3316.0 | 3374.7 | 3426.6 | 3473.4 | 3498.7 | 3485.3 |
| 62.5° | 3458.7 | 3465.3 | 3488.0 | 3518.7 | 3566.6 | 3625.3 | 3681.3 | 3748.0 | 3786.6 | 3814.7 | 3794.7 |
| 65°   | 3668.0 | 3680.0 | 3716.0 | 3757.3 | 3828.0 | 3904.0 | 3969.3 | 4060.0 | 4106.6 | 4140.0 | 4121.3 |
| 67.5° | 3681.3 | 3688.0 | 3732.0 | 3794.7 | 3889.3 | 4004.0 | 4137.3 | 4278.7 | 4370.7 | 4414.7 | 4382.7 |
| 69°   | 3590.7 | 3600.0 | 3642.7 | 3713.4 | 3818.7 | 3952.0 | 4110.7 | 4286.6 | 4428.0 | 4493.4 | 4462.7 |
| 70°   | 3488.0 | 3508.0 | 3554.7 | 3632.0 | 3734.7 | 3874.7 | 4038.7 | 4226.6 | 4392.0 | 4481.3 | 4458.7 |
| 72.5° | 3272.0 | 3277.3 | 3308.0 | 3369.3 | 3448.0 | 3564.0 | 3718.7 | 3896.0 | 4053.4 | 4181.3 | 4200.0 |
| 75°   | 2904.0 | 2921.3 | 2944.0 | 2985.3 | 3025.3 | 3109.3 | 3213.4 | 3334.7 | 3426.6 | 3525.3 | 3529.3 |
| 77.5° | 2194.7 | 2246.6 | 2264.0 | 2273.4 | 2290.7 | 2357.3 | 2448.0 | 2553.4 | 2629.3 | 2645.3 | 2642.7 |
| 80°   | 985.3  | 1054.7 | 1070.7 | 1146.6 | 1193.4 | 1304.0 | 1442.7 | 1604.0 | 1712.0 | 1724.0 | 1694.7 |
| 82.5° | 193.4  | 206.6  | 241.3  | 301.3  | 410.7  | 476.0  | 566.6  | 680.0  | 784.0  | 844.0  | 808.0  |
| 85°   | 64.0   | 68.0   | 78.7   | 86.6   | 100.0  | 113.4  | 137.3  | 170.7  | 212.0  | 234.7  | 209.3  |
| 87.5° | 25.3   | 25.3   | 29.3   | 32.0   | 34.7   | 34.7   | 34.7   | 32.0   | 30.7   | 25.3   | 22.7   |
| 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: P147710

CATALOG NUMBER: VXS-E04-LED-E1-5WQ

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  | 661.3  |
| 2.5°  | 665.3  | 665.3  | 665.3  | 665.3  | 665.3  | 665.3  | 665.3  | 665.3  |
| 5°    | 680.0  | 678.7  | 678.7  | 677.3  | 677.3  | 677.3  | 677.3  | 677.3  |
| 7.5°  | 700.0  | 698.7  | 697.3  | 698.7  | 697.3  | 697.3  | 697.3  | 697.3  |
| 10°   | 730.7  | 728.0  | 726.6  | 725.3  | 725.3  | 725.3  | 724.0  | 724.0  |
| 12.5° | 766.6  | 766.6  | 765.3  | 764.0  | 761.3  | 762.7  | 761.3  | 758.7  |
| 15°   | 816.0  | 813.4  | 812.0  | 810.7  | 808.0  | 808.0  | 808.0  | 806.6  |
| 17.5° | 865.3  | 862.7  | 862.7  | 858.7  | 857.3  | 857.3  | 857.3  | 858.7  |
| 20°   | 920.0  | 916.0  | 913.4  | 910.7  | 908.0  | 909.3  | 906.6  | 909.3  |
| 22.5° | 974.7  | 969.3  | 966.6  | 962.7  | 958.7  | 958.7  | 957.3  | 954.7  |
| 25°   | 1028.0 | 1021.3 | 1018.7 | 1014.7 | 1009.3 | 1009.3 | 1006.6 | 1004.0 |
| 27.5° | 1078.7 | 1072.0 | 1069.3 | 1061.3 | 1056.0 | 1054.7 | 1052.0 | 1050.7 |
| 30°   | 1134.7 | 1126.6 | 1122.7 | 1114.7 | 1106.6 | 1105.3 | 1101.3 | 1101.3 |
| 32.5° | 1193.4 | 1185.3 | 1182.7 | 1170.7 | 1164.0 | 1164.0 | 1161.3 | 1158.7 |
| 35°   | 1266.6 | 1254.7 | 1252.0 | 1240.0 | 1230.7 | 1230.7 | 1228.0 | 1229.3 |
| 37.5° | 1353.4 | 1344.0 | 1334.7 | 1325.3 | 1314.7 | 1313.4 | 1310.7 | 1308.0 |
| 40°   | 1469.3 | 1458.7 | 1448.0 | 1434.7 | 1425.3 | 1422.7 | 1418.7 | 1417.3 |
| 42.5° | 1624.0 | 1613.4 | 1592.0 | 1581.3 | 1572.0 | 1564.0 | 1562.7 | 1561.3 |
| 45°   | 1821.3 | 1808.0 | 1793.4 | 1773.4 | 1761.3 | 1744.0 | 1741.3 | 1734.7 |
| 47.5° | 2058.7 | 2033.4 | 2008.0 | 1990.7 | 1972.0 | 1952.0 | 1948.0 | 1937.3 |
| 50°   | 2310.7 | 2290.7 | 2248.0 | 2220.0 | 2190.7 | 2170.7 | 2157.3 | 2153.4 |
| 52.5° | 2581.3 | 2544.0 | 2501.3 | 2464.0 | 2421.3 | 2394.7 | 2370.7 | 2364.0 |
| 55°   | 2864.0 | 2810.7 | 2757.3 | 2713.4 | 2670.7 | 2638.7 | 2616.0 | 2605.3 |
| 57.5° | 3146.6 | 3088.0 | 3029.3 | 2981.3 | 2945.3 | 2904.0 | 2881.3 | 2876.0 |
| 60°   | 3441.3 | 3385.3 | 3325.3 | 3277.3 | 3233.4 | 3197.3 | 3184.0 | 3158.7 |
| 62.5° | 3753.4 | 3694.7 | 3638.7 | 3592.0 | 3536.0 | 3510.7 | 3488.0 | 3473.4 |
| 65°   | 4060.0 | 3992.0 | 3921.3 | 3872.0 | 3816.0 | 3780.0 | 3752.0 | 3732.0 |
| 67.5° | 4297.3 | 4194.7 | 4100.0 | 4017.3 | 3941.3 | 3885.3 | 3849.3 | 3830.7 |
| 69°   | 4364.0 | 4236.0 | 4114.7 | 4006.6 | 3917.3 | 3854.7 | 3814.7 | 3796.0 |
| 70°   | 4356.0 | 4214.7 | 4081.3 | 3962.7 | 3865.3 | 3798.7 | 3760.0 | 3725.3 |
| 72.5° | 4109.3 | 3980.0 | 3832.0 | 3702.7 | 3614.7 | 3550.7 | 3512.0 | 3493.4 |
| 75°   | 3506.6 | 3420.0 | 3313.4 | 3213.4 | 3149.3 | 3112.0 | 3064.0 | 3065.3 |
| 77.5° | 2553.4 | 2556.0 | 2484.0 | 2381.3 | 2309.3 | 2296.0 | 2274.7 | 2253.4 |
| 80°   | 1584.0 | 1457.3 | 1374.7 | 1264.0 | 1182.7 | 1112.0 | 1081.3 | 1014.7 |
| 82.5° | 730.7  | 570.7  | 442.7  | 334.7  | 257.3  | 201.3  | 176.0  | 144.0  |
| 85°   | 162.7  | 124.0  | 102.7  | 82.7   | 70.7   | 65.3   | 53.4   | 49.3   |
| 87.5° | 22.7   | 20.0   | 18.7   | 17.3   | 14.7   | 10.7   | 8.0    | 6.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)