

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: P165338

Luminaire Tested: **VST-E12-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165338
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E12-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (252) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21093.9 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G4

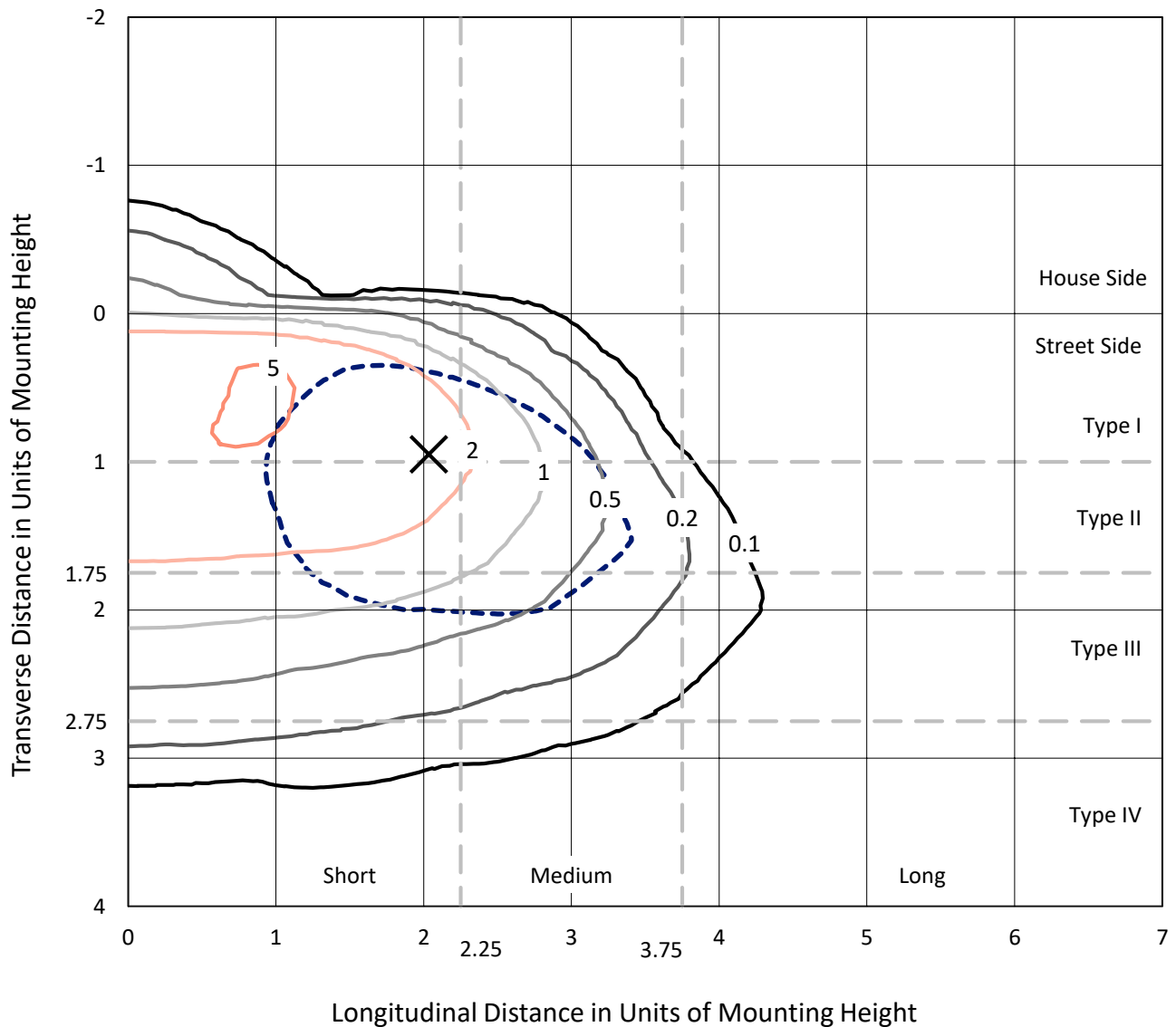
Input Watts (W): 291.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P165338
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Iso-Footcandle Lines of Horizontal Illumination

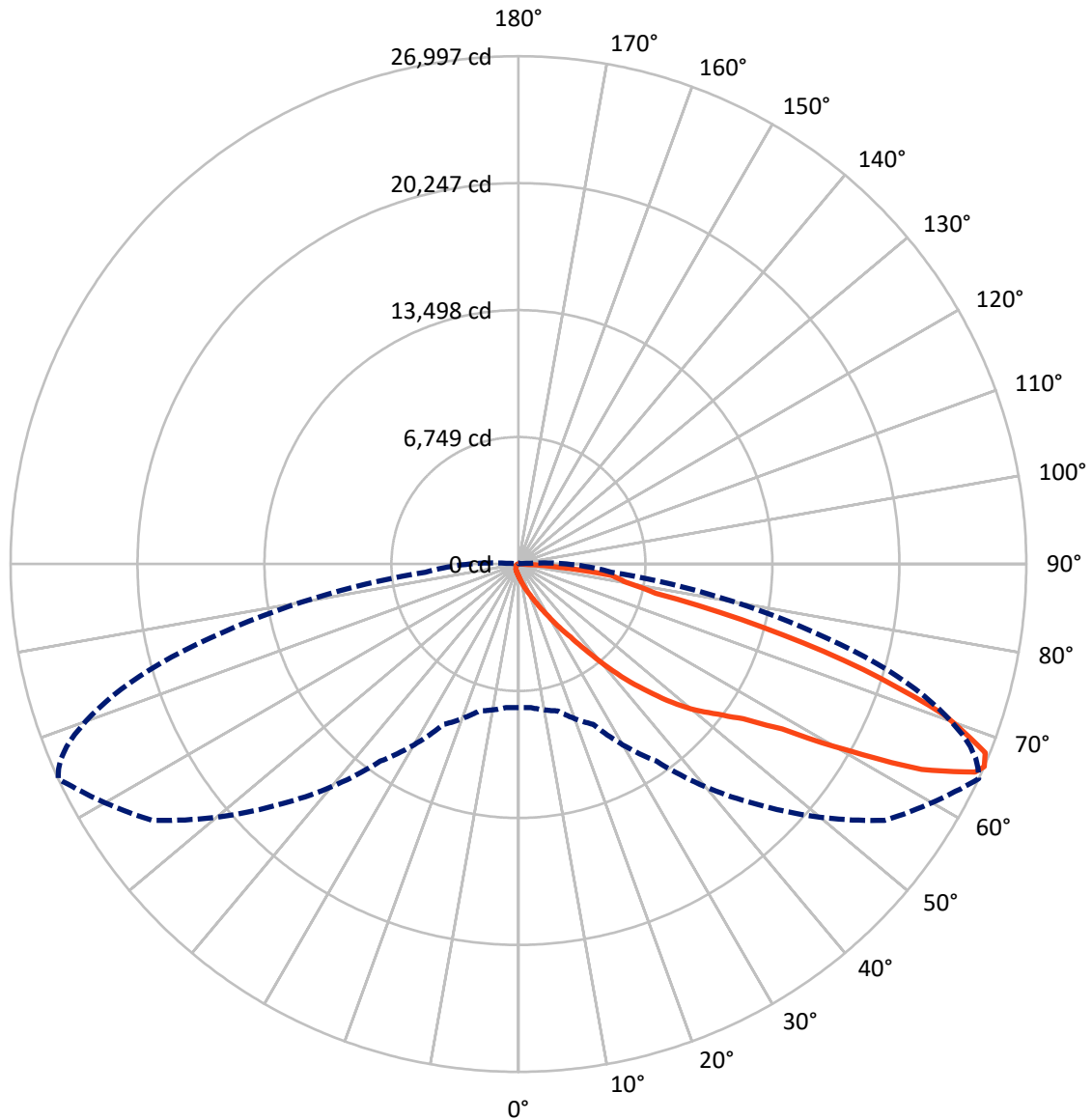
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 457.1 | 0.0 | 457.1 |
| | % Fixture | 2.2 | 0.0 | 2.2 |
| Street Side | Lumens | 20636.8 | 0.0 | 20636.8 |
| | % Fixture | 97.8 | 0.0 | 97.8 |
| Total | Lumens | 21093.9 | 0.0 | 21093.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 71.3 | 0.3 |
| 10°-20° | 302.2 | 1.4 |
| 20°-30° | 651.8 | 3.1 |
| 30°-40° | 1392.0 | 6.6 |
| 40°-50° | 3078.4 | 14.6 |
| 50°-60° | 5216.9 | 24.7 |
| 60°-70° | 6961.5 | 33.0 |
| 70°-80° | 3066.5 | 14.5 |
| 80°-90° | 353.2 | 1.7 |
| 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° | 21093.9 | 100.0 |
| 0°-180° | 21093.9 | 100.0 |



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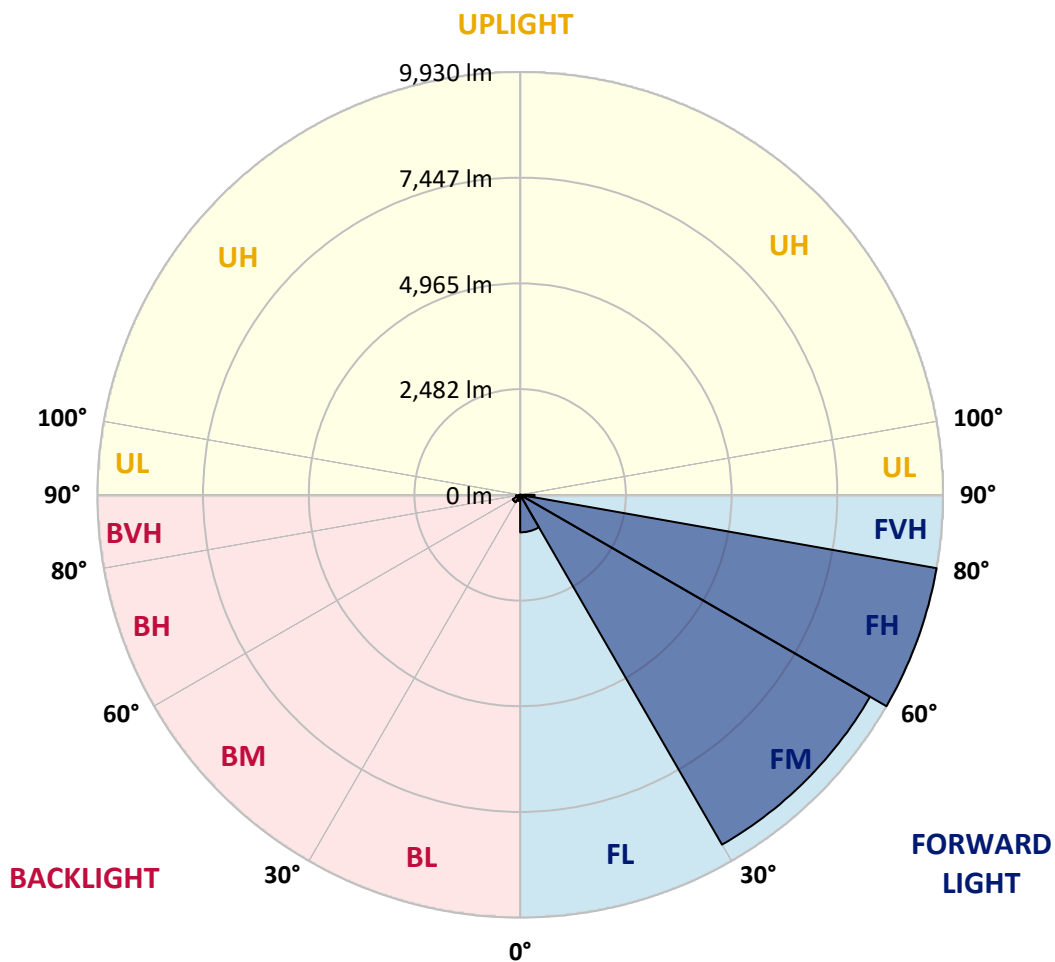
CATALOG NUMBER: VST-E12-LED-E-U-SL3-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 881.1 | 4.2 | | | |
| FM | (30°-60°) | 9486.6 | 45.0 | | | |
| FH | (60°-80°) | 9929.9 | 47.1 | | | G4/12000 |
| FVH | (80°-90°) | 339.1 | 1.6 | | | G3/500 |
| BL | (0°-30°) | 144.2 | 0.7 | B1/500 | | |
| BM | (30°-60°) | 200.7 | 1.0 | B0/220 | | |
| BH | (60°-80°) | 98.1 | 0.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 14.1 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 |
| 2.5° | 803.1 | 798.9 | 782.6 | 782.6 | 758.3 | 742.2 | 721.8 | 701.6 | 701.6 | 697.4 | 693.5 |
| 5° | 1062.4 | 1038.3 | 1034.1 | 989.5 | 953.0 | 900.3 | 851.6 | 786.8 | 778.7 | 770.6 | 766.4 |
| 7.5° | 1350.5 | 1346.3 | 1309.9 | 1257.2 | 1184.3 | 1086.8 | 989.5 | 884.1 | 867.8 | 859.7 | 843.5 |
| 10° | 1723.6 | 1703.2 | 1654.7 | 1565.3 | 1455.9 | 1326.1 | 1168.0 | 1001.6 | 981.4 | 965.1 | 957.0 |
| 12.5° | 2080.4 | 2044.0 | 2015.4 | 1901.9 | 1764.0 | 1573.4 | 1382.8 | 1143.7 | 1127.4 | 1107.2 | 1074.7 |
| 15° | 2412.9 | 2380.4 | 2331.9 | 2234.6 | 2080.4 | 1841.1 | 1618.2 | 1326.1 | 1285.5 | 1257.2 | 1232.8 |
| 17.5° | 2672.5 | 2652.3 | 2595.4 | 2486.0 | 2319.6 | 2108.8 | 1841.1 | 1512.6 | 1480.3 | 1443.6 | 1399.0 |
| 20° | 2920.0 | 2891.4 | 2802.3 | 2652.3 | 2473.7 | 2311.4 | 2104.8 | 1755.9 | 1711.3 | 1666.7 | 1618.2 |
| 22.5° | 3155.2 | 3126.6 | 2980.8 | 2733.3 | 2542.7 | 2473.7 | 2400.8 | 2031.7 | 1962.7 | 1926.3 | 1877.5 |
| 25° | 3483.7 | 3422.8 | 3195.5 | 2802.3 | 2546.9 | 2599.6 | 2725.2 | 2388.5 | 2323.8 | 2271.1 | 2194.0 |
| 27.5° | 3925.7 | 3844.4 | 3487.6 | 2903.7 | 2562.9 | 2737.5 | 3098.3 | 2822.4 | 2753.5 | 2692.7 | 2607.7 |
| 30° | 4424.4 | 4371.7 | 3945.9 | 3147.0 | 2680.6 | 2940.2 | 3515.9 | 3374.1 | 3293.1 | 3219.9 | 3118.7 |
| 32.5° | 4927.3 | 4854.4 | 4432.5 | 3609.3 | 2996.8 | 3333.4 | 4039.2 | 4014.9 | 3909.5 | 3840.5 | 3730.9 |
| 35° | 5369.3 | 5332.9 | 5020.6 | 4367.5 | 3718.9 | 4023.0 | 4736.7 | 4765.0 | 4671.9 | 4598.8 | 4477.1 |
| 37.5° | 5669.5 | 5669.5 | 5608.7 | 5182.7 | 4866.4 | 5093.5 | 5762.6 | 5766.8 | 5673.5 | 5507.2 | 5446.4 |
| 40° | 5823.4 | 5868.0 | 6087.2 | 6168.2 | 6152.0 | 6444.0 | 7109.2 | 7036.0 | 6959.0 | 6873.8 | 6671.1 |
| 42.5° | 6139.9 | 6180.3 | 6646.7 | 7206.5 | 7571.4 | 7956.6 | 8414.9 | 8390.5 | 8297.4 | 8143.3 | 7956.6 |
| 45° | 6675.3 | 6728.0 | 7283.5 | 8171.6 | 8921.7 | 9469.4 | 9761.2 | 9647.7 | 9554.4 | 9408.6 | 9311.0 |
| 47.5° | 7356.4 | 7457.9 | 8086.4 | 9185.4 | 10089.7 | 10994.0 | 11298.2 | 10998.2 | 10917.2 | 10803.4 | 10645.3 |
| 50° | 8082.4 | 8179.7 | 8848.8 | 10106.0 | 11128.0 | 12206.6 | 12713.7 | 12206.6 | 12089.2 | 12052.5 | 11874.2 |
| 52.5° | 8710.9 | 8792.2 | 9436.9 | 10815.7 | 11922.7 | 13188.0 | 13926.1 | 13257.0 | 13171.7 | 13050.1 | 12920.3 |
| 55° | 9084.0 | 9149.0 | 9753.1 | 11156.3 | 12462.3 | 14072.1 | 15098.3 | 14510.2 | 14384.4 | 14335.8 | 14149.2 |
| 57.5° | 9209.8 | 9274.6 | 9818.1 | 11200.9 | 12754.1 | 14879.1 | 16521.7 | 16541.9 | 16391.9 | 16217.6 | 16160.7 |
| 60° | 9209.8 | 9282.7 | 9741.0 | 11091.5 | 13038.0 | 15738.8 | 18419.4 | 20110.5 | 19786.2 | 19753.7 | 19546.8 |
| 62.5° | 8828.6 | 8897.6 | 9359.8 | 10754.9 | 13419.2 | 16898.7 | 21063.6 | 24048.3 | 23955.2 | 23744.2 | 23403.6 |
| 65° | 8001.2 | 8041.8 | 8495.9 | 9895.2 | 13273.2 | 17965.3 | 23354.8 | 26668.1 | 26518.1 | 26104.4 | 25666.5 |
| 66° | 7628.1 | 7660.6 | 8086.4 | 9404.4 | 12794.7 | 18111.3 | 23760.4 | 26996.6 | 26749.3 | 26400.4 | 25905.6 |
| 67.5° | 7088.7 | 7145.6 | 7445.6 | 8492.0 | 11647.1 | 17604.3 | 23505.0 | 26765.6 | 26550.6 | 26128.7 | 25634.0 |
| 70° | 4732.7 | 4692.1 | 5750.5 | 6516.9 | 8873.2 | 14344.0 | 21087.9 | 24032.0 | 24036.2 | 23837.5 | 23638.8 |
| 72.5° | 2246.7 | 2271.1 | 2579.1 | 4010.7 | 5807.2 | 9582.9 | 16785.2 | 19181.9 | 19457.7 | 19100.8 | 18853.3 |
| 75° | 1614.0 | 1650.5 | 1837.1 | 2453.5 | 3463.2 | 5750.5 | 10880.5 | 13415.1 | 13423.2 | 12790.5 | 12227.1 |
| 77.5° | 470.4 | 490.8 | 689.3 | 1512.6 | 2595.4 | 3880.9 | 6249.2 | 7457.9 | 7283.5 | 6829.2 | 6403.4 |
| 80° | 194.5 | 194.5 | 202.7 | 482.7 | 1042.2 | 2636.0 | 4371.7 | 5742.4 | 5722.2 | 5547.9 | 5296.4 |
| 82.5° | 72.9 | 77.1 | 97.3 | 198.7 | 247.5 | 648.9 | 2915.8 | 4984.2 | 4971.9 | 4724.6 | 4546.1 |
| 85° | 8.1 | 8.1 | 24.4 | 85.2 | 93.3 | 121.7 | 583.9 | 2197.9 | 2185.9 | 2197.9 | 1926.3 |
| 87.5° | 0.0 | 0.0 | 3.9 | 8.1 | 12.1 | 16.3 | 24.4 | 85.2 | 93.3 | 89.1 | 81.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 |
| 2.5° | 693.5 | 685.4 | 685.4 | 681.4 | 681.4 | 681.4 | 677.2 | 673.3 | 673.3 | 669.1 | 665.2 |
| 5° | 758.3 | 750.1 | 746.2 | 738.1 | 734.1 | 729.9 | 721.8 | 717.9 | 709.7 | 705.6 | 701.6 |
| 7.5° | 835.3 | 819.1 | 815.1 | 803.1 | 790.8 | 782.6 | 774.5 | 762.4 | 754.3 | 738.1 | 734.1 |
| 10° | 932.9 | 912.4 | 896.2 | 879.9 | 867.8 | 847.6 | 835.3 | 819.1 | 803.1 | 790.8 | 778.7 |
| 12.5° | 1058.4 | 1030.1 | 1005.7 | 989.5 | 961.2 | 936.8 | 912.4 | 900.3 | 867.8 | 851.6 | 831.4 |
| 15° | 1196.4 | 1163.8 | 1135.5 | 1103.0 | 1082.8 | 1042.2 | 1009.7 | 973.2 | 957.0 | 928.7 | 896.2 |
| 17.5° | 1374.7 | 1322.0 | 1277.4 | 1245.1 | 1204.5 | 1163.8 | 1127.4 | 1091.0 | 1042.2 | 1009.7 | 969.3 |
| 20° | 1565.3 | 1520.7 | 1459.9 | 1403.2 | 1354.5 | 1305.9 | 1253.0 | 1204.5 | 1159.9 | 1107.2 | 1058.4 |
| 22.5° | 1808.8 | 1743.8 | 1670.9 | 1614.0 | 1549.3 | 1496.6 | 1423.4 | 1358.6 | 1285.5 | 1216.6 | 1159.9 |
| 25° | 2116.9 | 2031.7 | 1962.7 | 1881.7 | 1804.6 | 1723.6 | 1634.2 | 1553.2 | 1459.9 | 1395.1 | 1297.8 |
| 27.5° | 2498.1 | 2417.1 | 2323.8 | 2218.4 | 2141.3 | 2019.6 | 1901.9 | 1800.7 | 1691.1 | 1589.6 | 1480.3 |
| 30° | 2984.7 | 2867.3 | 2769.7 | 2668.5 | 2514.4 | 2396.7 | 2258.7 | 2121.1 | 1970.9 | 1869.6 | 1703.2 |
| 32.5° | 3568.6 | 3443.0 | 3297.0 | 3151.0 | 3009.1 | 2842.9 | 2672.5 | 2502.1 | 2335.8 | 2149.4 | 1979.0 |
| 35° | 4282.6 | 4132.3 | 3966.1 | 3808.0 | 3589.1 | 3410.5 | 3195.5 | 2960.4 | 2773.9 | 2558.9 | 2344.0 |
| 37.5° | 5227.5 | 4980.0 | 4833.9 | 4667.7 | 4371.7 | 4128.4 | 3889.0 | 3653.8 | 3325.3 | 3098.3 | 2794.1 |
| 40° | 6411.5 | 6265.5 | 6026.4 | 5758.7 | 5491.0 | 5170.6 | 4846.3 | 4534.0 | 4152.8 | 3836.3 | 3483.7 |
| 42.5° | 7802.4 | 7587.7 | 7344.4 | 6959.0 | 6687.3 | 6310.1 | 5941.2 | 5527.4 | 5061.0 | 4655.6 | 4241.9 |
| 45° | 9108.4 | 8853.0 | 8666.3 | 8281.2 | 7997.2 | 7551.0 | 7105.0 | 6667.1 | 6127.6 | 5604.5 | 5126.0 |
| 47.5° | 10519.7 | 10308.7 | 10000.6 | 9688.3 | 9400.4 | 8897.6 | 8414.9 | 7883.7 | 7315.8 | 6695.5 | 6074.9 |
| 50° | 11760.6 | 11594.4 | 11383.4 | 11006.3 | 10685.9 | 10264.1 | 9696.5 | 9116.5 | 8398.6 | 7782.2 | 7076.7 |
| 52.5° | 12814.9 | 12685.1 | 12389.1 | 12121.4 | 11833.5 | 11436.1 | 10929.3 | 10373.7 | 9599.2 | 8921.7 | 8118.9 |
| 55° | 14060.0 | 13966.7 | 13707.1 | 13540.9 | 13285.5 | 12904.3 | 12429.7 | 11914.8 | 11095.5 | 10357.4 | 9449.0 |
| 57.5° | 16099.8 | 16026.9 | 15799.6 | 15730.7 | 15479.3 | 15146.8 | 14562.9 | 14011.3 | 13054.3 | 12137.7 | 11099.7 |
| 60° | 19477.9 | 19332.1 | 18999.4 | 18829.2 | 18297.8 | 17851.8 | 17093.5 | 16335.0 | 15179.3 | 14011.3 | 12762.2 |
| 62.5° | 23095.3 | 22685.7 | 22053.1 | 21509.8 | 20755.5 | 19980.7 | 18966.9 | 17807.2 | 16452.7 | 15065.8 | 13630.0 |
| 65° | 25045.9 | 24348.5 | 23549.6 | 22685.7 | 21708.5 | 20568.8 | 19291.4 | 17900.5 | 16444.6 | 14980.6 | 13463.8 |
| 66° | 25269.0 | 24482.2 | 23634.8 | 22673.6 | 21586.9 | 20374.3 | 19076.4 | 17616.6 | 16103.8 | 14676.4 | 13159.7 |
| 67.5° | 24989.3 | 24166.0 | 23269.9 | 22203.3 | 21027.1 | 19769.9 | 18407.3 | 16890.6 | 15434.7 | 13986.9 | 12510.8 |
| 70° | 23030.5 | 22211.2 | 21412.3 | 20289.1 | 19035.8 | 17770.8 | 16481.1 | 14786.0 | 13407.2 | 12076.9 | 10763.0 |
| 72.5° | 18391.1 | 17835.5 | 17044.8 | 16083.6 | 14862.9 | 13378.6 | 12303.9 | 10787.4 | 9591.0 | 8301.4 | 7283.5 |
| 75° | 11493.0 | 10710.3 | 9732.9 | 8508.2 | 7575.4 | 6370.9 | 5742.4 | 4590.6 | 3909.5 | 3313.3 | 2737.5 |
| 77.5° | 5876.1 | 5288.3 | 4602.9 | 3913.4 | 3252.4 | 2595.4 | 2007.3 | 1419.5 | 957.0 | 665.2 | 494.7 |
| 80° | 4854.4 | 4335.3 | 3767.4 | 3138.9 | 2555.0 | 1983.2 | 1427.6 | 973.2 | 620.6 | 405.6 | 316.2 |
| 82.5° | 4010.7 | 3572.8 | 3065.8 | 2481.9 | 1975.0 | 1557.4 | 1082.8 | 705.6 | 437.9 | 283.9 | 223.1 |
| 85° | 1707.4 | 1549.3 | 1196.4 | 948.9 | 713.7 | 527.3 | 369.2 | 247.5 | 174.4 | 141.8 | 129.8 |
| 87.5° | 72.9 | 81.0 | 77.1 | 60.8 | 44.6 | 44.6 | 40.6 | 32.5 | 32.5 | 32.5 | 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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CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 95° | 105° | 115° | 125° | 135° |
|-------|---------|---------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 |
| 2.5° | 665.2 | 661.0 | 657.0 | 657.0 | 652.8 | 648.9 | 624.5 | 604.3 | 580.0 | 563.7 | 547.4 |
| 5° | 693.5 | 689.3 | 681.4 | 677.2 | 669.1 | 665.2 | 612.5 | 567.6 | 531.2 | 502.9 | 482.7 |
| 7.5° | 721.8 | 717.9 | 705.6 | 693.5 | 689.3 | 681.4 | 596.2 | 539.3 | 490.8 | 458.3 | 437.9 |
| 10° | 758.3 | 746.2 | 734.1 | 717.9 | 705.6 | 693.5 | 580.0 | 506.8 | 454.1 | 425.8 | 405.6 |
| 12.5° | 811.0 | 790.8 | 770.6 | 750.1 | 734.1 | 713.7 | 571.8 | 478.5 | 425.8 | 393.3 | 373.1 |
| 15° | 872.0 | 843.5 | 819.1 | 794.9 | 766.4 | 746.2 | 555.6 | 454.1 | 401.4 | 369.2 | 344.8 |
| 17.5° | 928.7 | 896.2 | 859.7 | 823.3 | 794.9 | 766.4 | 539.3 | 430.0 | 377.0 | 344.8 | 320.4 |
| 20° | 1009.7 | 961.2 | 916.6 | 872.0 | 831.4 | 794.9 | 514.9 | 405.6 | 356.8 | 320.4 | 296.0 |
| 22.5° | 1099.1 | 1042.2 | 985.6 | 924.7 | 872.0 | 823.3 | 494.7 | 385.2 | 336.6 | 300.2 | 271.6 |
| 25° | 1212.6 | 1143.7 | 1066.6 | 989.5 | 928.7 | 863.9 | 474.6 | 365.0 | 316.2 | 279.8 | 251.4 |
| 27.5° | 1370.7 | 1273.4 | 1188.2 | 1091.0 | 997.6 | 924.7 | 458.3 | 348.7 | 296.0 | 259.6 | 231.2 |
| 30° | 1585.7 | 1443.6 | 1309.9 | 1204.5 | 1094.9 | 989.5 | 442.0 | 328.5 | 279.8 | 239.4 | 206.9 |
| 32.5° | 1824.8 | 1658.6 | 1504.4 | 1346.3 | 1208.4 | 1086.8 | 425.8 | 312.3 | 259.6 | 218.9 | 190.6 |
| 35° | 2121.1 | 1910.0 | 1703.2 | 1520.7 | 1354.5 | 1192.2 | 409.5 | 296.0 | 243.3 | 198.7 | 170.4 |
| 37.5° | 2546.9 | 2283.1 | 2011.5 | 1776.3 | 1561.3 | 1346.3 | 397.5 | 279.8 | 223.1 | 178.5 | 150.0 |
| 40° | 3130.8 | 2790.2 | 2457.5 | 2137.1 | 1857.3 | 1589.6 | 381.2 | 263.5 | 206.9 | 162.3 | 133.7 |
| 42.5° | 3763.4 | 3349.7 | 2911.8 | 2550.8 | 2165.7 | 1829.0 | 365.0 | 247.5 | 190.6 | 146.0 | 117.7 |
| 45° | 4550.2 | 4035.1 | 3503.9 | 3013.1 | 2542.7 | 2108.8 | 348.7 | 231.2 | 170.4 | 129.8 | 101.5 |
| 47.5° | 5410.0 | 4752.9 | 4152.8 | 3536.4 | 2976.6 | 2457.5 | 328.5 | 218.9 | 154.2 | 113.5 | 89.1 |
| 50° | 6294.0 | 5600.6 | 4842.1 | 4140.5 | 3475.5 | 2806.4 | 308.3 | 198.7 | 137.9 | 101.5 | 72.9 |
| 52.5° | 7246.8 | 6427.8 | 5653.3 | 4781.2 | 4006.7 | 3264.5 | 287.9 | 182.5 | 125.6 | 89.1 | 60.8 |
| 55° | 8459.5 | 7543.1 | 6634.6 | 5657.2 | 4724.6 | 3795.9 | 267.7 | 162.3 | 109.6 | 77.1 | 48.8 |
| 57.5° | 9984.3 | 8897.6 | 7782.2 | 6679.2 | 5547.9 | 4493.4 | 251.4 | 141.8 | 93.3 | 64.8 | 40.6 |
| 60° | 11424.0 | 10154.7 | 8804.2 | 7535.0 | 6257.4 | 5028.7 | 227.1 | 125.6 | 81.0 | 52.7 | 40.6 |
| 62.5° | 12170.2 | 10722.4 | 9266.5 | 7867.4 | 6504.9 | 5219.3 | 202.7 | 105.4 | 69.0 | 44.6 | 36.4 |
| 65° | 11987.7 | 10511.6 | 9100.2 | 7688.9 | 6354.9 | 5097.7 | 178.5 | 93.3 | 60.8 | 40.6 | 36.4 |
| 66° | 11724.2 | 10264.1 | 8844.9 | 7502.5 | 6229.0 | 4967.9 | 166.2 | 89.1 | 56.9 | 40.6 | 32.5 |
| 67.5° | 11148.2 | 9736.8 | 8382.4 | 7133.3 | 5884.3 | 4720.4 | 150.0 | 81.0 | 52.7 | 36.4 | 32.5 |
| 70° | 9522.1 | 8240.5 | 7157.7 | 6046.6 | 5028.7 | 3978.4 | 121.7 | 69.0 | 44.6 | 32.5 | 32.5 |
| 72.5° | 6301.9 | 5430.2 | 4708.3 | 4051.3 | 3386.1 | 2627.9 | 101.5 | 56.9 | 36.4 | 32.5 | 28.3 |
| 75° | 2376.5 | 2149.4 | 1845.3 | 1658.6 | 1447.8 | 1269.3 | 81.0 | 36.4 | 28.3 | 28.3 | 28.3 |
| 77.5° | 421.9 | 389.3 | 344.8 | 316.2 | 292.1 | 267.7 | 64.8 | 24.4 | 24.4 | 28.3 | 28.3 |
| 80° | 283.9 | 263.5 | 239.4 | 218.9 | 202.7 | 182.5 | 44.6 | 20.2 | 24.4 | 24.4 | 28.3 |
| 82.5° | 202.7 | 190.6 | 178.5 | 162.3 | 150.0 | 133.7 | 28.3 | 20.2 | 24.4 | 24.4 | 24.4 |
| 85° | 121.7 | 113.5 | 105.4 | 97.3 | 85.2 | 81.0 | 20.2 | 20.2 | 20.2 | 24.4 | 24.4 |
| 87.5° | 32.5 | 28.3 | 32.5 | 32.5 | 24.4 | 28.3 | 16.3 | 16.3 | 16.3 | 20.2 | 20.2 |
| 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: P165338

CATALOG NUMBER: VST-E12-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 636.6 | 636.6 | 636.6 | 636.6 | 636.6 |
| 2.5° | 539.3 | 539.3 | 531.2 | 543.5 | 543.5 |
| 5° | 466.4 | 466.4 | 462.2 | 466.4 | 466.4 |
| 7.5° | 425.8 | 421.9 | 421.9 | 421.9 | 425.8 |
| 10° | 389.3 | 385.2 | 385.2 | 385.2 | 385.2 |
| 12.5° | 356.8 | 352.9 | 348.7 | 352.9 | 352.9 |
| 15° | 328.5 | 320.4 | 320.4 | 320.4 | 320.4 |
| 17.5° | 304.1 | 296.0 | 292.1 | 292.1 | 292.1 |
| 20° | 279.8 | 267.7 | 267.7 | 267.7 | 267.7 |
| 22.5° | 255.4 | 243.3 | 243.3 | 243.3 | 243.3 |
| 25° | 231.2 | 218.9 | 218.9 | 218.9 | 218.9 |
| 27.5° | 210.8 | 198.7 | 198.7 | 198.7 | 198.7 |
| 30° | 186.7 | 178.5 | 178.5 | 182.5 | 178.5 |
| 32.5° | 170.4 | 158.1 | 158.1 | 162.3 | 162.3 |
| 35° | 150.0 | 141.8 | 141.8 | 141.8 | 141.8 |
| 37.5° | 129.8 | 121.7 | 121.7 | 121.7 | 121.7 |
| 40° | 113.5 | 105.4 | 101.5 | 105.4 | 105.4 |
| 42.5° | 97.3 | 89.1 | 85.2 | 85.2 | 85.2 |
| 45° | 85.2 | 72.9 | 69.0 | 72.9 | 72.9 |
| 47.5° | 69.0 | 60.8 | 60.8 | 64.8 | 64.8 |
| 50° | 52.7 | 52.7 | 56.9 | 64.8 | 64.8 |
| 52.5° | 48.8 | 48.8 | 56.9 | 64.8 | 64.8 |
| 55° | 44.6 | 48.8 | 56.9 | 60.8 | 64.8 |
| 57.5° | 40.6 | 48.8 | 56.9 | 60.8 | 60.8 |
| 60° | 40.6 | 44.6 | 52.7 | 60.8 | 60.8 |
| 62.5° | 36.4 | 40.6 | 48.8 | 56.9 | 56.9 |
| 65° | 36.4 | 40.6 | 48.8 | 56.9 | 56.9 |
| 66° | 36.4 | 40.6 | 48.8 | 56.9 | 56.9 |
| 67.5° | 36.4 | 40.6 | 48.8 | 56.9 | 56.9 |
| 70° | 36.4 | 40.6 | 48.8 | 52.7 | 52.7 |
| 72.5° | 32.5 | 36.4 | 44.6 | 52.7 | 52.7 |
| 75° | 32.5 | 36.4 | 44.6 | 52.7 | 52.7 |
| 77.5° | 32.5 | 36.4 | 44.6 | 52.7 | 52.7 |
| 80° | 32.5 | 36.4 | 44.6 | 48.8 | 52.7 |
| 82.5° | 28.3 | 36.4 | 40.6 | 48.8 | 48.8 |
| 85° | 28.3 | 32.5 | 40.6 | 44.6 | 48.8 |
| 87.5° | 24.4 | 28.3 | 32.5 | 40.6 | 40.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)