

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: P95408

Luminaire Tested: **VFS-K-B20-7-LED-E1-TS-SG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95408  
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22798)  
Test Lab: INNOVATION CENTER  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VFS-K-B20-7-LED-E1-TS-SG  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
TIGHT SPOT WITH SOFTENING GLASS DISTRIBUTION  
WITH 20 LED'S, 700mA DRIVE CURRENT  
Light Source: -  
Ballast/Driver: -

**Summary**

|                   |                                 |                      |                 |
|-------------------|---------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                             | NEMA Type:           | 3H x 3V         |
| Luminaire Lumens: | 3516.4 lumens                   | Max Intensity:       | 24846.8 candela |
| Efficiency:       | N/A                             | Max Intensity Angle: | 0°H x 0°V       |
| Efficacy:         | 72.4 lumens/watt                |                      |                 |
| Luminous Opening: | (L: 0.83 ' x W: 0 ' x H: 0.5 ') |                      |                 |
| Beam Angle (50%): | 17°H x 17.9°V                   | Field Angle (10%):   | 36.5°H x 38.1°V |
| Beam Lumens:      | 1337.7 lumens                   | Field Lumens:        | 2722.1 lumens   |
| Beam Efficiency:  | 38.0%                           | Field Efficiency:    | 77.4%           |

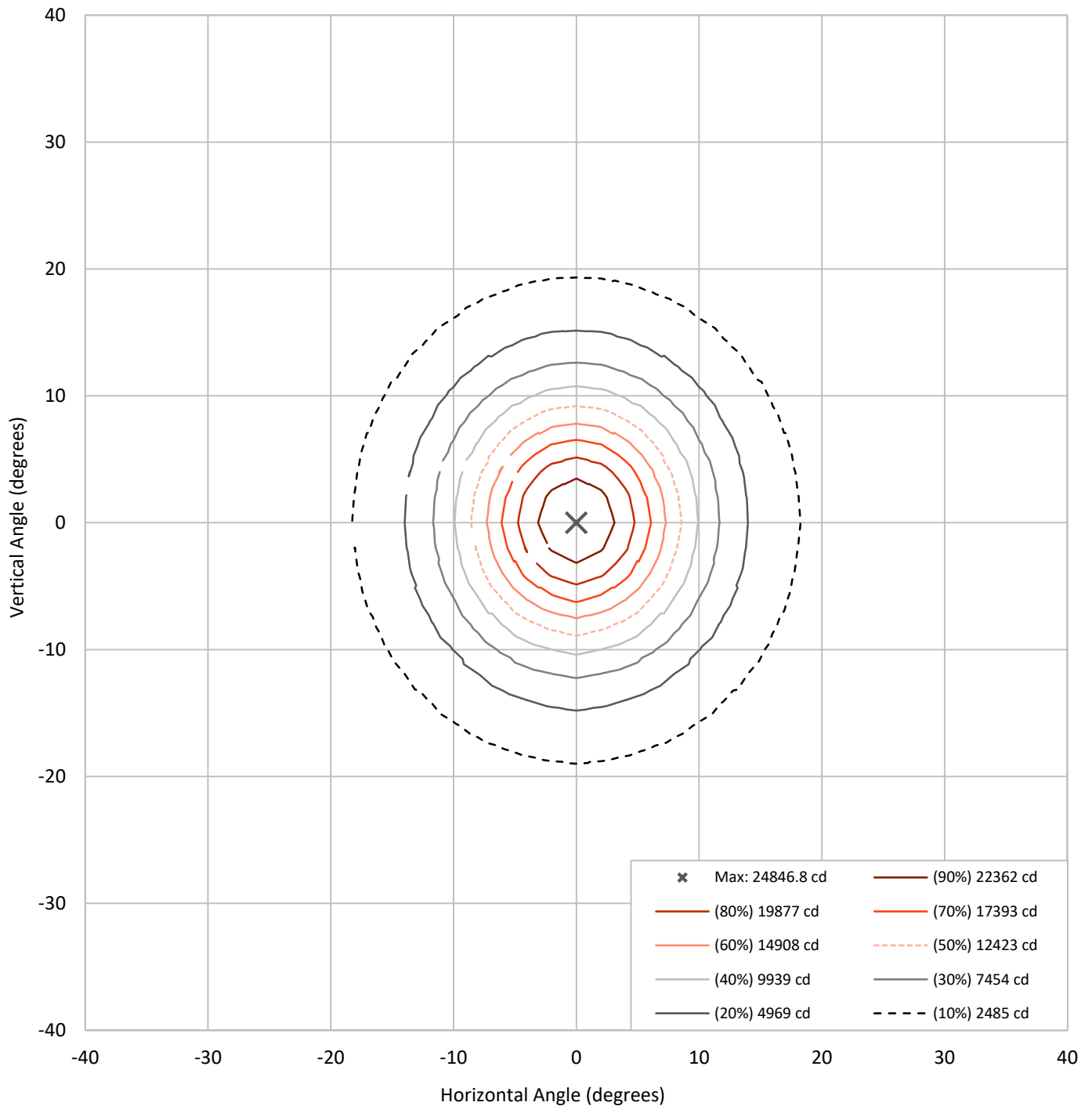
Input Watts (W): 48.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot





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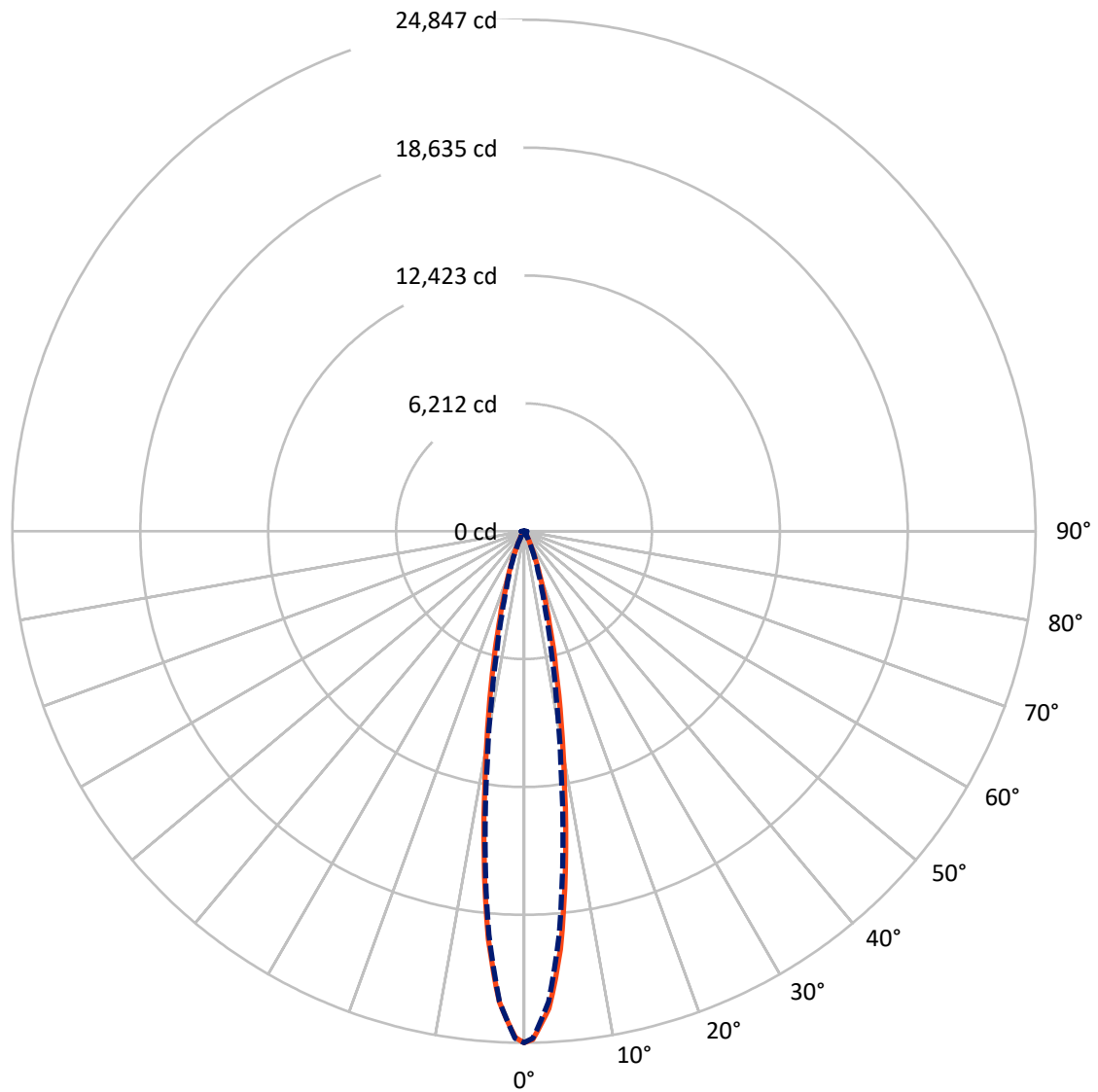
### Lumen Table

|     |     |     |     |     |     |      |       |       |       |       |      |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|----|----|----|
| 90  | 2.7 | 5.9 |     | 5.5 |     | 3.4  |       | 2.0   |       | 3.4   |      | 5.5 |     | 5.9 |     | 2.7 |    |    |    |
| 80  | 2.4 | 0.9 | 0.8 | 0.6 | 0.8 | 0.8  | 1.0   | 1.0   | 1.0   | 1.0   | 0.8  | 0.8 | 0.6 | 0.8 | 0.9 | 2.4 |    |    |    |
| 70  | 2.4 | 0.7 | 0.5 | 0.6 | 0.9 | 1.1  | 1.2   | 1.2   | 1.2   | 1.2   | 1.1  | 0.9 | 0.6 | 0.5 | 0.7 | 2.4 |    |    |    |
| 60  |     | 0.4 | 0.4 | 0.6 | 0.9 | 1.1  | 1.4   | 1.5   | 1.5   | 1.4   | 1.1  | 0.9 | 0.6 | 0.4 | 0.4 |     |    |    |    |
| 50  | 1.7 | 0.3 | 0.3 | 0.6 | 0.9 | 1.5  | 2.6   | 4.1   | 4.1   | 2.6   | 1.5  | 0.9 | 0.6 | 0.3 | 0.3 | 1.7 |    |    |    |
| 40  |     | 0.2 | 0.3 | 0.6 | 1.1 | 3.3  | 12.4  | 26.9  | 26.9  | 12.4  | 3.3  | 1.1 | 0.6 | 0.3 | 0.2 |     |    |    |    |
| 30  | 1.3 | 0.2 | 0.3 | 0.7 | 1.8 | 10.7 | 52.3  | 139.0 | 139.0 | 52.3  | 10.7 | 1.8 | 0.7 | 0.3 | 0.2 | 1.3 |    |    |    |
| 20  |     | 0.2 | 0.4 | 0.9 | 2.7 | 21.3 | 119.0 | 448.9 | 448.9 | 119.0 | 21.3 | 2.7 | 0.9 | 0.4 | 0.2 |     |    |    |    |
| 10  | 1.2 | 0.2 | 0.4 | 0.8 | 2.6 | 20.9 | 116.1 | 434.4 | 434.4 | 116.1 | 20.9 | 2.6 | 0.8 | 0.4 | 0.2 | 1.2 |    |    |    |
| 0   |     | 0.2 | 0.3 | 0.7 | 1.8 | 10.3 | 49.9  | 129.3 | 129.3 | 49.9  | 10.3 | 1.8 | 0.7 | 0.3 | 0.2 |     |    |    |    |
| -10 | 1.4 | 0.3 | 0.4 | 0.7 | 1.2 | 3.3  | 11.9  | 25.3  | 25.3  | 11.9  | 3.3  | 1.2 | 0.7 | 0.4 | 0.3 | 1.4 |    |    |    |
| -20 |     | 0.3 | 0.3 | 0.6 | 0.8 | 1.3  | 2.4   | 3.8   | 3.8   | 2.4   | 1.3  | 0.8 | 0.6 | 0.3 | 0.3 |     |    |    |    |
| -30 | 1.6 | 0.4 | 0.3 | 0.4 | 0.6 | 0.8  | 1.2   | 1.2   | 1.2   | 1.2   | 0.8  | 0.6 | 0.4 | 0.3 | 0.4 | 1.6 |    |    |    |
| -40 |     | 0.7 | 0.6 | 0.7 | 0.9 | 1.0  | 1.2   | 1.2   | 1.2   | 1.2   | 1.0  | 0.9 | 0.7 | 0.6 | 0.7 |     |    |    |    |
| -50 | 2.4 | 1.0 | 0.8 | 0.6 | 0.6 | 0.8  | 0.9   | 0.8   | 0.8   | 0.9   | 0.8  | 0.6 | 0.6 | 0.8 | 1.0 | 2.4 |    |    |    |
| -60 |     | 2.7 | 6.0 |     | 5.8 |      | 3.1   |       | 1.8   |       | 3.1  |     | 5.8 |     | 6.0 |     |    |    |    |
| -70 | 2.7 | 6.0 |     | 5.8 |     | 3.1  |       | 1.8   |       | 3.1   |      | 5.8 |     | 6.0 |     | 2.7 |    |    |    |
| -80 | 2.7 | 6.0 |     | 5.8 |     | 3.1  |       | 1.8   |       | 3.1   |      | 5.8 |     | 6.0 |     | 2.7 |    |    |    |
| -90 | 2.7 | 6.0 |     | 5.8 |     | 3.1  |       | 1.8   |       | 3.1   |      | 5.8 |     | 6.0 |     | 2.7 |    |    |    |
|     | -90 | -80 | -70 | -60 | -50 | -40  | -30   | -20   | -10   | 0     | 10   | 20  | 30  | 40  | 50  | 60  | 70 | 80 | 90 |

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### Luminous Intensity Polar Plot

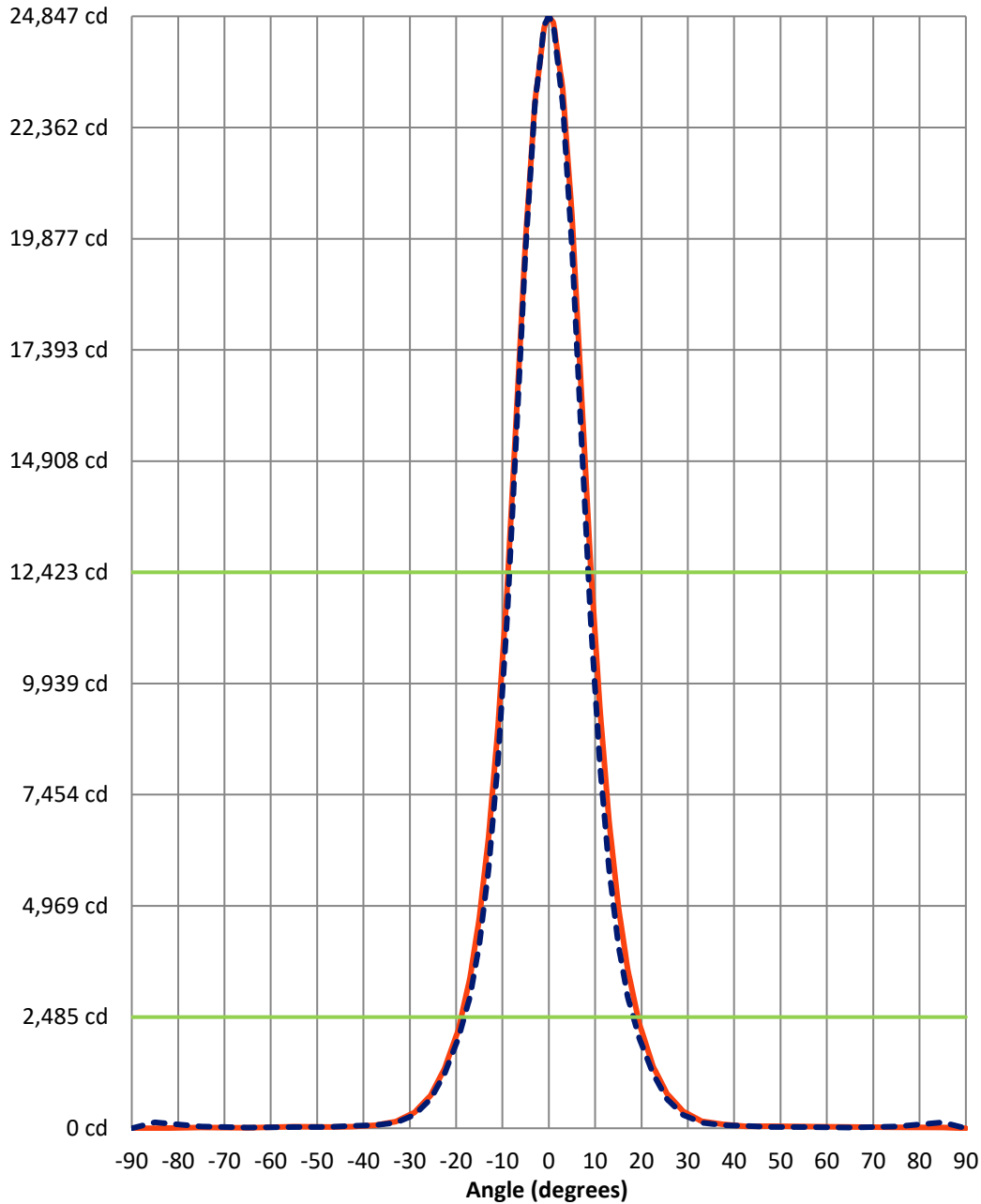


— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 17°  
V Angle: 17.9°  
Lumens: 1337.7  
Efficiency: 38.0%

**Field:**  
H Angle: 36.5°  
V Angle: 38.1°  
Lumens: 2722.1  
Efficiency: 77.4%

**Spill:**  
Lumens: 794.3  
Efficiency: 22.6%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

|        | 0°      | 1°      | 3°      | 5°      | 7°      | 9°      | 11°    | 13°    | 15°    | 17°    | 19.5°  |
|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 17.5    | 12.3    | 15.8    | 19.3    | 17.5    | 14.0    | 19.3   | 27.2   | 32.4   | 37.7   | 51.7   |
| 75°    | 21.0    | 19.3    | 19.3    | 17.5    | 17.5    | 22.8    | 24.6   | 21.0   | 19.3   | 22.8   | 22.8   |
| 65°    | 28.9    | 34.2    | 36.0    | 28.9    | 27.2    | 39.5    | 37.7   | 27.2   | 34.2   | 32.4   | 34.2   |
| 55°    | 39.5    | 41.2    | 32.4    | 37.7    | 41.2    | 37.7    | 39.5   | 44.7   | 41.2   | 44.7   | 43.0   |
| 47.5°  | 46.5    | 39.5    | 44.7    | 48.2    | 44.7    | 37.7    | 43.0   | 46.5   | 51.7   | 43.0   | 43.0   |
| 42.5°  | 43.0    | 51.7    | 58.8    | 50.0    | 50.0    | 50.0    | 46.5   | 51.7   | 50.0   | 48.2   | 37.7   |
| 37.5°  | 89.4    | 85.9    | 94.7    | 76.3    | 80.7    | 80.7    | 67.5   | 69.3   | 69.3   | 69.3   | 62.3   |
| 33°    | 157.0   | 155.2   | 162.2   | 153.5   | 139.4   | 128.0   | 110.5  | 94.7   | 89.4   | 78.9   | 67.5   |
| 29°    | 378.0   | 381.5   | 369.2   | 348.2   | 321.0   | 292.9   | 246.4  | 210.5  | 174.5  | 137.7  | 108.7  |
| 25.5°  | 774.4   | 779.6   | 748.9   | 702.4   | 636.7   | 560.4   | 474.4  | 398.1  | 324.5  | 264.0  | 194.7  |
| 22.5°  | 1381.2  | 1391.7  | 1340.0  | 1252.3  | 1131.3  | 990.1   | 840.1  | 679.6  | 545.5  | 424.4  | 298.2  |
| 19.5°  | 2347.6  | 2363.4  | 2269.6  | 2095.9  | 1889.0  | 1657.4  | 1393.5 | 1131.3 | 902.4  | 690.2  | 479.7  |
| 17°    | 3563.9  | 3585.9  | 3414.9  | 3132.5  | 2759.8  | 2380.1  | 1992.4 | 1637.3 | 1305.8 | 998.9  | 676.1  |
| 15°    | 4962.7  | 5009.2  | 4752.2  | 4299.7  | 3719.2  | 3150.0  | 2573.9 | 2078.4 | 1648.7 | 1271.6 | 870.8  |
| 13°    | 6864.8  | 6928.8  | 6530.7  | 5840.5  | 4988.1  | 4134.8  | 3273.7 | 2563.3 | 2021.4 | 1554.0 | 1079.5 |
| 11°    | 9422.9  | 9474.6  | 8857.2  | 7844.4  | 6587.7  | 5367.8  | 4181.3 | 3179.0 | 2459.9 | 1889.0 | 1311.0 |
| 9°     | 12605.3 | 12671.1 | 11729.3 | 10254.2 | 8457.3  | 6730.6  | 5143.3 | 3830.5 | 2877.3 | 2162.6 | 1489.9 |
| 7°     | 16483.2 | 16560.4 | 15222.2 | 13092.1 | 10539.2 | 8208.3  | 6135.2 | 4510.2 | 3296.5 | 2437.1 | 1680.2 |
| 5°     | 20383.1 | 20365.5 | 18765.1 | 16029.0 | 12705.3 | 9636.9  | 7075.3 | 5117.9 | 3682.3 | 2673.8 | 1832.0 |
| 3°     | 23216.5 | 23128.8 | 21405.6 | 18366.1 | 14480.3 | 10776.9 | 7789.1 | 5552.0 | 3963.8 | 2851.0 | 1938.9 |
| 1°     | 24693.3 | 24529.3 | 22763.1 | 19570.1 | 15411.6 | 11367.1 | 8154.8 | 5767.7 | 4106.8 | 2937.8 | 2003.0 |
| 0°     | 24846.8 | 24636.3 | 22878.9 | 19656.9 | 15491.4 | 11411.8 | 8165.3 | 5792.3 | 4105.0 | 2945.7 | 2017.9 |
| -1°    | 24589.8 | 24327.6 | 22606.1 | 19393.0 | 15280.9 | 11244.3 | 8079.4 | 5733.5 | 4063.8 | 2916.8 | 1987.2 |
| -3°    | 22916.6 | 22597.4 | 20974.1 | 17919.7 | 14139.1 | 10466.5 | 7617.2 | 5450.3 | 3891.0 | 2816.8 | 1916.1 |
| -5°    | 19869.2 | 19482.4 | 18019.7 | 15380.9 | 12239.7 | 9207.1  | 6837.6 | 4973.2 | 3580.6 | 2618.6 | 1807.4 |
| -7°    | 15923.7 | 15534.4 | 14397.8 | 12427.3 | 10059.5 | 7739.1  | 5874.7 | 4363.7 | 3194.7 | 2374.8 | 1648.7 |
| -9°    | 12048.5 | 11760.0 | 10997.9 | 9649.1  | 7991.7  | 6288.6  | 4868.0 | 3658.7 | 2766.8 | 2099.4 | 1466.3 |
| -11°   | 8916.0  | 8709.0  | 8243.4  | 7317.3  | 6170.3  | 4955.7  | 3922.6 | 3056.2 | 2352.9 | 1800.4 | 1261.1 |
| -13°   | 6504.4  | 6359.7  | 6044.0  | 5424.8  | 4647.0  | 3830.5  | 3111.4 | 2472.1 | 1938.9 | 1497.0 | 1043.6 |
| -15°   | 4698.7  | 4681.2  | 4372.5  | 3989.3  | 3473.6  | 2929.0  | 2449.3 | 1980.2 | 1564.5 | 1214.6 | 826.1  |
| -17°   | 3368.4  | 3293.0  | 3156.2  | 2915.0  | 2588.8  | 2235.4  | 1899.5 | 1552.2 | 1226.0 | 954.1  | 653.3  |
| -19.5° | 2204.7  | 2209.9  | 2094.2  | 1962.6  | 1775.0  | 1561.0  | 1334.7 | 1084.8 | 860.3  | 670.9  | 463.9  |
| -22.5° | 1334.7  | 1333.0  | 1264.6  | 1195.3  | 1072.5  | 945.4   | 819.1  | 669.1  | 538.5  | 428.0  | 306.9  |
| -25.5° | 734.9   | 740.1   | 691.9   | 655.1   | 590.2   | 513.9   | 449.9  | 371.0  | 303.4  | 241.2  | 176.3  |
| -29°   | 353.4   | 362.2   | 344.6   | 322.7   | 301.7   | 267.5   | 233.3  | 191.2  | 167.5  | 134.2  | 100.0  |
| -33°   | 150.0   | 148.2   | 148.2   | 137.7   | 132.4   | 117.5   | 101.7  | 91.2   | 82.4   | 78.9   | 64.0   |
| -37.5° | 67.5    | 71.0    | 76.3    | 64.0    | 74.5    | 72.8    | 62.3   | 57.0   | 58.8   | 60.5   | 62.3   |
| -42.5° | 36.0    | 39.5    | 39.5    | 37.7    | 43.0    | 41.2    | 44.7   | 43.0   | 46.5   | 37.7   | 39.5   |
| -47.5° | 28.9    | 34.2    | 37.7    | 41.2    | 37.7    | 34.2    | 36.0   | 39.5   | 37.7   | 34.2   | 32.4   |
| -55°   | 36.0    | 39.5    | 41.2    | 48.2    | 39.5    | 41.2    | 41.2   | 48.2   | 41.2   | 39.5   | 44.7   |
| -65°   | 10.5    | 12.3    | 28.9    | 24.6    | 28.9    | 30.7    | 30.7   | 28.9   | 30.7   | 32.4   | 24.6   |
| -75°   | 17.5    | 22.8    | 21.0    | 28.9    | 24.6    | 19.3    | 28.9   | 19.3   | 24.6   | 30.7   | 24.6   |
| -85°   | 0.0     | 7.0     | 14.0    | 8.8     | 12.3    | 5.3     | 10.5   | 12.3   | 21.0   | 30.7   | 43.0   |
| -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):**

|        | 22.5°  | 25.5° | 29°   | 33°   | 37.5° | 42.5° | 47.5° | 55°   | 65°   | 75°   | 85°   |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90°    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°    | 64.0   | 69.3  | 80.7  | 103.5 | 114.0 | 129.8 | 134.2 | 144.7 | 155.2 | 160.5 | 178.0 |
| 75°    | 21.0   | 14.0  | 14.0  | 22.8  | 22.8  | 36.0  | 46.5  | 74.5  | 107.0 | 137.7 | 165.7 |
| 65°    | 27.2   | 32.4  | 34.2  | 32.4  | 28.9  | 22.8  | 27.2  | 39.5  | 69.3  | 119.3 | 164.0 |
| 55°    | 41.2   | 41.2  | 37.7  | 36.0  | 37.7  | 32.4  | 28.9  | 24.6  | 46.5  | 100.0 | 164.0 |
| 47.5°  | 43.0   | 39.5  | 39.5  | 41.2  | 36.0  | 28.9  | 24.6  | 24.6  | 37.7  | 87.7  | 151.7 |
| 42.5°  | 43.0   | 36.0  | 37.7  | 34.2  | 32.4  | 37.7  | 27.2  | 22.8  | 21.0  | 71.0  | 144.7 |
| 37.5°  | 62.3   | 55.2  | 51.7  | 46.5  | 37.7  | 36.0  | 32.4  | 21.0  | 24.6  | 71.0  | 150.0 |
| 33°    | 50.0   | 44.7  | 37.7  | 36.0  | 24.6  | 15.8  | 21.0  | 7.0   | 8.8   | 44.7  | 132.4 |
| 29°    | 84.2   | 60.5  | 48.2  | 39.5  | 39.5  | 27.2  | 27.2  | 19.3  | 8.8   | 44.7  | 134.2 |
| 25.5°  | 126.3  | 89.4  | 64.0  | 48.2  | 39.5  | 27.2  | 34.2  | 17.5  | 14.0  | 41.2  | 132.4 |
| 22.5°  | 184.2  | 115.8 | 69.3  | 46.5  | 32.4  | 21.0  | 30.7  | 8.8   | 3.5   | 34.2  | 124.5 |
| 19.5°  | 294.7  | 178.0 | 103.5 | 60.5  | 50.0  | 34.2  | 28.9  | 14.0  | 10.5  | 39.5  | 134.2 |
| 17°    | 403.4  | 229.8 | 117.5 | 71.0  | 50.0  | 32.4  | 24.6  | 12.3  | 7.0   | 36.0  | 130.7 |
| 15°    | 506.9  | 287.6 | 141.2 | 69.3  | 46.5  | 30.7  | 21.0  | 10.5  | 7.0   | 30.7  | 122.8 |
| 13°    | 624.4  | 342.9 | 160.5 | 78.9  | 50.0  | 27.2  | 19.3  | 12.3  | 5.3   | 28.9  | 121.0 |
| 11°    | 786.6  | 431.5 | 214.0 | 112.3 | 76.3  | 51.7  | 46.5  | 32.4  | 21.0  | 48.2  | 137.7 |
| 9°     | 893.6  | 479.7 | 217.5 | 107.0 | 53.5  | 36.0  | 28.9  | 12.3  | 8.8   | 39.5  | 126.3 |
| 7°     | 1011.1 | 534.9 | 246.4 | 107.0 | 65.8  | 41.2  | 27.2  | 21.0  | 10.5  | 36.0  | 129.8 |
| 5°     | 1100.6 | 599.8 | 269.2 | 119.3 | 69.3  | 51.7  | 32.4  | 15.8  | 10.5  | 36.0  | 134.2 |
| 3°     | 1172.5 | 631.4 | 281.5 | 121.0 | 67.5  | 46.5  | 36.0  | 21.0  | 12.3  | 41.2  | 132.4 |
| 1°     | 1211.1 | 653.3 | 296.4 | 126.3 | 67.5  | 48.2  | 32.4  | 21.0  | 17.5  | 44.7  | 134.2 |
| 0°     | 1218.1 | 653.3 | 298.2 | 124.5 | 69.3  | 53.5  | 28.9  | 27.2  | 15.8  | 39.5  | 132.4 |
| -1°    | 1207.6 | 640.2 | 279.7 | 122.8 | 64.0  | 44.7  | 24.6  | 15.8  | 7.0   | 37.7  | 128.0 |
| -3°    | 1157.6 | 620.9 | 279.7 | 124.5 | 69.3  | 46.5  | 30.7  | 15.8  | 8.8   | 37.7  | 129.8 |
| -5°    | 1084.8 | 579.7 | 262.2 | 112.3 | 62.3  | 43.0  | 28.9  | 22.8  | 7.0   | 28.9  | 126.3 |
| -7°    | 986.6  | 526.2 | 241.2 | 103.5 | 64.0  | 44.7  | 24.6  | 24.6  | 10.5  | 30.7  | 126.3 |
| -9°    | 870.8  | 476.2 | 221.0 | 103.5 | 57.0  | 43.0  | 24.6  | 21.0  | 10.5  | 36.0  | 128.0 |
| -11°   | 745.4  | 410.4 | 192.9 | 91.2  | 60.5  | 39.5  | 24.6  | 21.0  | 15.8  | 34.2  | 128.0 |
| -13°   | 613.9  | 333.2 | 158.7 | 78.9  | 44.7  | 32.4  | 17.5  | 10.5  | 5.3   | 32.4  | 124.5 |
| -15°   | 486.7  | 267.5 | 135.9 | 72.8  | 48.2  | 34.2  | 15.8  | 7.0   | 7.0   | 34.2  | 126.3 |
| -17°   | 385.0  | 224.5 | 126.3 | 72.8  | 57.0  | 41.2  | 32.4  | 15.8  | 10.5  | 44.7  | 134.2 |
| -19.5° | 285.0  | 169.3 | 94.7  | 67.5  | 50.0  | 34.2  | 36.0  | 12.3  | 19.3  | 48.2  | 134.2 |
| -22.5° | 201.7  | 135.9 | 93.0  | 74.5  | 57.0  | 50.0  | 39.5  | 34.2  | 28.9  | 64.0  | 142.9 |
| -25.5° | 119.3  | 82.4  | 58.8  | 44.7  | 34.2  | 24.6  | 27.2  | 15.8  | 8.8   | 43.0  | 128.0 |
| -29°   | 80.7   | 62.3  | 51.7  | 36.0  | 27.2  | 21.0  | 22.8  | 14.0  | 12.3  | 44.7  | 132.4 |
| -33°   | 51.7   | 43.0  | 41.2  | 30.7  | 34.2  | 21.0  | 22.8  | 8.8   | 12.3  | 48.2  | 134.2 |
| -37.5° | 51.7   | 44.7  | 39.5  | 36.0  | 30.7  | 36.0  | 27.2  | 22.8  | 21.0  | 60.5  | 137.7 |
| -42.5° | 30.7   | 36.0  | 27.2  | 17.5  | 22.8  | 22.8  | 15.8  | 12.3  | 17.5  | 60.5  | 134.2 |
| -47.5° | 27.2   | 27.2  | 21.0  | 22.8  | 24.6  | 22.8  | 15.8  | 8.8   | 28.9  | 74.5  | 137.7 |
| -55°   | 46.5   | 39.5  | 37.7  | 43.0  | 37.7  | 41.2  | 30.7  | 34.2  | 60.5  | 103.5 | 162.2 |
| -65°   | 24.6   | 28.9  | 30.7  | 22.8  | 19.3  | 12.3  | 27.2  | 37.7  | 74.5  | 117.5 | 158.7 |
| -75°   | 17.5   | 21.0  | 22.8  | 27.2  | 37.7  | 44.7  | 51.7  | 74.5  | 112.3 | 146.5 | 164.0 |
| -85°   | 50.0   | 62.3  | 76.3  | 96.5  | 114.0 | 126.3 | 139.4 | 146.5 | 148.2 | 157.0 | 164.0 |
| -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: P95408

CATALOG NUMBER: VFS-K-B20-7-LED-E1-TS-SG

**CANDELA DISTRIBUTION (continued):**

|        | 90° |
|--------|-----|
| 90°    | 0.0 |
| 85°    | 0.0 |
| 75°    | 0.0 |
| 65°    | 0.0 |
| 55°    | 0.0 |
| 47.5°  | 0.0 |
| 42.5°  | 0.0 |
| 37.5°  | 0.0 |
| 33°    | 0.0 |
| 29°    | 0.0 |
| 25.5°  | 0.0 |
| 22.5°  | 0.0 |
| 19.5°  | 0.0 |
| 17°    | 0.0 |
| 15°    | 0.0 |
| 13°    | 0.0 |
| 11°    | 0.0 |
| 9°     | 0.0 |
| 7°     | 0.0 |
| 5°     | 0.0 |
| 3°     | 0.0 |
| 1°     | 0.0 |
| 0°     | 0.0 |
| -1°    | 0.0 |
| -3°    | 0.0 |
| -5°    | 0.0 |
| -7°    | 0.0 |
| -9°    | 0.0 |
| -11°   | 0.0 |
| -13°   | 0.0 |
| -15°   | 0.0 |
| -17°   | 0.0 |
| -19.5° | 0.0 |
| -22.5° | 0.0 |
| -25.5° | 0.0 |
| -29°   | 0.0 |
| -33°   | 0.0 |
| -37.5° | 0.0 |
| -42.5° | 0.0 |
| -47.5° | 0.0 |
| -55°   | 0.0 |
| -65°   | 0.0 |
| -75°   | 0.0 |
| -85°   | 0.0 |
| -90°   | 0.0 |

(END OF REPORT)