

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: P95388

Luminaire Tested: **VFS-K-B20-3-LED-E1-NSR**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95388  
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22802)  
Test Lab: INNOVATION CENTER  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VFS-K-B20-3-LED-E1-NSR  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
NARROW SYMMETRIC ROUND DISTRIBUTION  
WITH 20 LED'S, 350mA DRIVE CURRENT  
Light Source: -  
Ballast/Driver: -

**Summary**

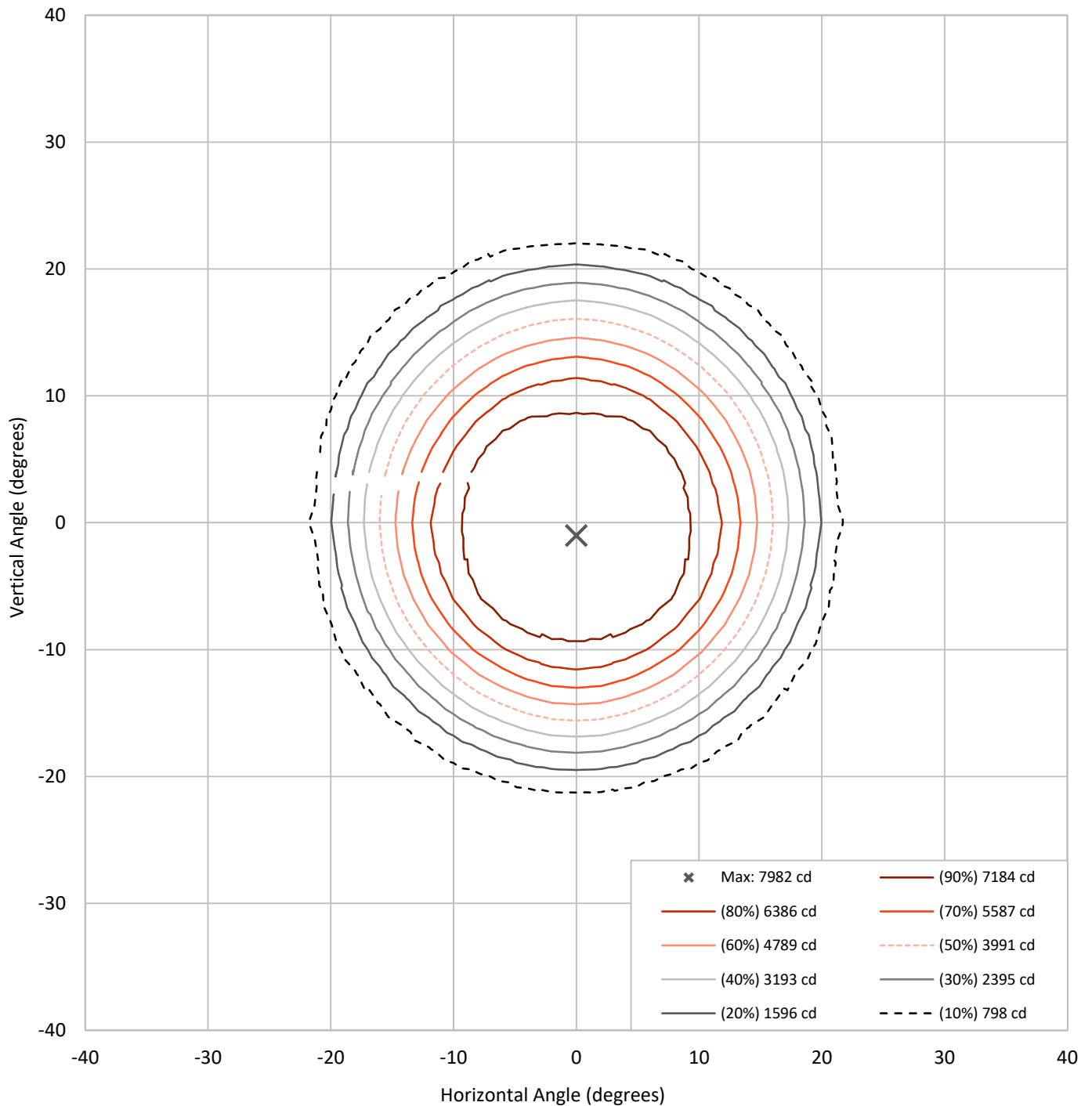
|                                   |                                 |                      |                 |
|-----------------------------------|---------------------------------|----------------------|-----------------|
| Lumens per Lamp:                  | N/A                             | NEMA Type:           | 3H x 3V         |
| Luminaire Lumens:                 | 2112.4 lumens                   | Max Intensity:       | 7982 candela    |
| Efficiency:                       | N/A                             | Max Intensity Angle: | 0°H x -1°V      |
| Efficacy:                         | 88.4 lumens/watt                |                      |                 |
| Luminous Opening:                 | (L: 0.83 ' x W: 0 ' x H: 0.5 ') |                      |                 |
| Beam Angle (50%):                 | 32°H x 31.7°V                   | Field Angle (10%):   | 42.5°H x 43.3°V |
| Beam Lumens:                      | 1498.1 lumens                   | Field Lumens:        | 1960.3 lumens   |
| Beam Efficiency:                  | 70.9%                           | Field Efficiency:    | 92.8%           |
| Input Watts (W):                  | 23.9                            |                      |                 |
| 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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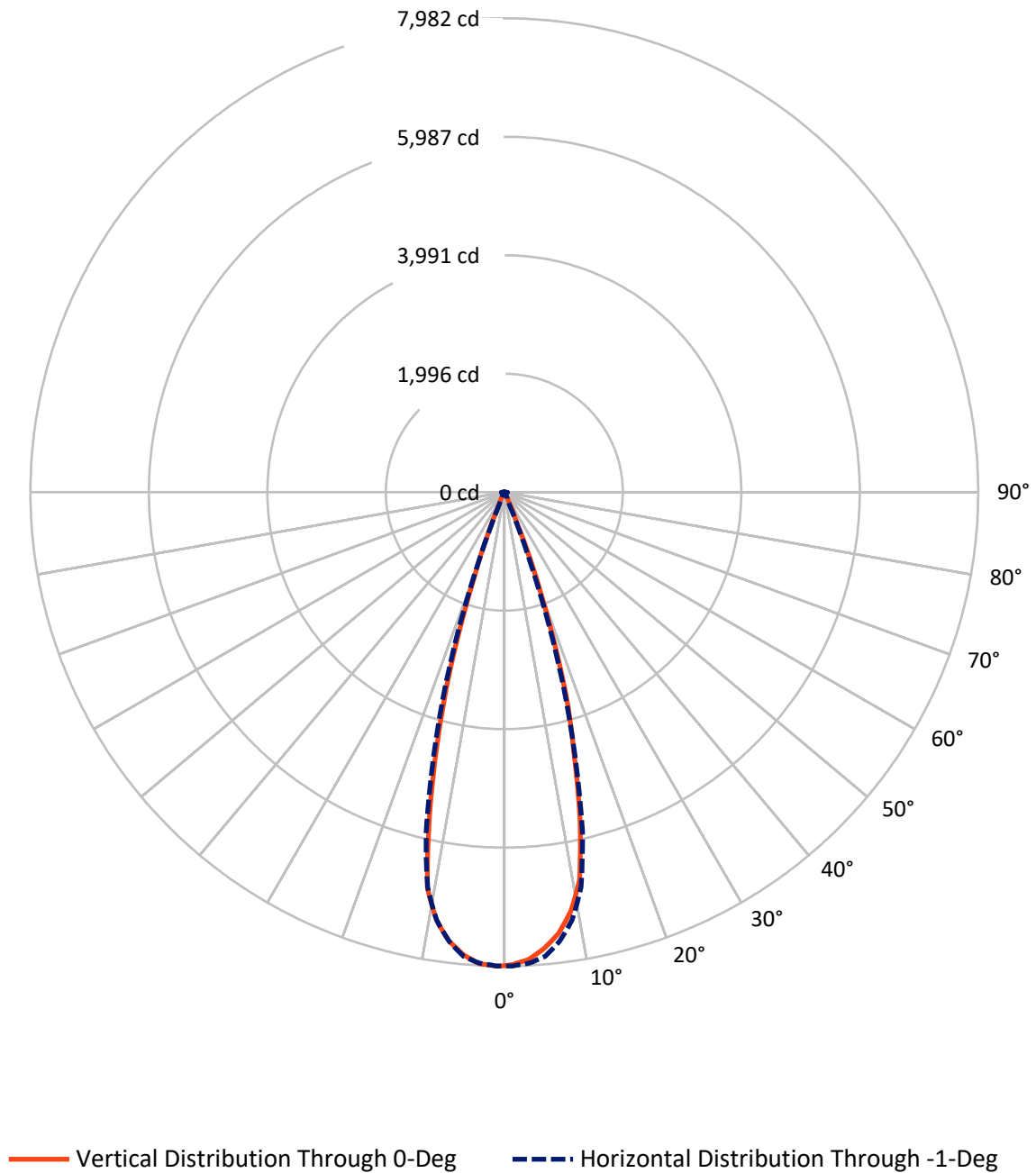
### Lumen Table

|     |     |     |     |     |     |     |       |       |       |       |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|----|----|----|
| 90  |     |     |     |     |     |     |       |       |       |       |     |     |     |     |     |     |    |    |    |
| 80  | 0.9 | 2.6 |     | 2.8 |     | 1.8 |       | 0.7   |       | 1.8   |     | 2.8 |     | 2.6 |     | 0.9 |    |    |    |
| 70  |     |     |     |     |     |     |       |       |       |       |     |     |     |     |     |     |    |    |    |
| 60  | 1.0 | 0.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.3   | 0.2   | 0.2   | 0.3   | 0.2 | 0.2 | 0.3 | 0.5 | 0.5 | 1.0 |    |    |    |
| 50  |     | 0.4 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3   | 0.2   | 0.2   | 0.3   | 0.2 | 0.2 | 0.1 | 0.2 | 0.4 |     |    |    |    |
| 40  | 0.9 | 0.3 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3   | 0.3   | 0.3   | 0.3   | 0.3 | 0.2 | 0.1 | 0.1 | 0.3 | 0.9 |    |    |    |
| 30  |     | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4   | 0.5   | 0.5   | 0.4   | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 |     |    |    |    |
| 20  | 0.7 | 0.1 | 0.0 | 0.1 | 0.2 | 0.4 | 2.3   | 10.1  | 10.1  | 2.3   | 0.4 | 0.2 | 0.1 | 0.0 | 0.1 | 0.7 |    |    |    |
| 10  |     | 0.1 | 0.0 | 0.0 | 0.2 | 1.8 | 39.5  | 119.0 | 119.0 | 39.5  | 1.8 | 0.2 | 0.0 | 0.0 | 0.1 |     |    |    |    |
| 0   | 0.6 | 0.0 | 0.0 | 0.0 | 0.1 | 6.4 | 115.8 | 222.3 | 222.3 | 115.8 | 6.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 |    |    |    |
| -10 |     | 0.0 | 0.0 | 0.0 | 0.1 | 5.9 | 113.6 | 224.9 | 224.9 | 113.6 | 5.9 | 0.1 | 0.0 | 0.0 | 0.0 |     |    |    |    |
| -20 | 0.7 | 0.1 | 0.0 | 0.0 | 0.1 | 1.5 | 33.4  | 111.9 | 111.9 | 33.4  | 1.5 | 0.1 | 0.0 | 0.0 | 0.1 | 0.7 |    |    |    |
| -30 |     | 0.1 | 0.0 | 0.1 | 0.2 | 0.3 | 1.6   | 6.8   | 6.8   | 1.6   | 0.3 | 0.2 | 0.1 | 0.0 | 0.1 |     |    |    |    |
| -40 | 0.9 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4   | 0.4   | 0.4   | 0.4   | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.9 |    |    |    |
| -50 |     | 0.3 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3   | 0.3   | 0.3   | 0.3   | 0.3 | 0.2 | 0.1 | 0.1 | 0.3 |     |    |    |    |
| -60 | 1.0 | 0.4 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3   | 0.2   | 0.2   | 0.3   | 0.2 | 0.2 | 0.1 | 0.2 | 0.4 | 1.0 |    |    |    |
| -70 |     | 0.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.3   | 0.2   | 0.2   | 0.3   | 0.2 | 0.2 | 0.3 | 0.5 | 0.5 |     |    |    |    |
| -80 |     |     |     |     |     |     |       |       |       |       |     |     |     |     |     |     |    |    |    |
| -90 | 0.9 | 2.6 |     | 2.8 |     | 1.8 |       | 0.7   |       | 1.8   |     | 2.8 |     | 2.6 |     | 0.9 |    |    |    |
|     | -90 | -80 | -70 | -60 | -50 | -40 | -30   | -20   | -10   | 0     | 10  | 20  | 30  | 40  | 50  | 60  | 70 | 80 | 90 |

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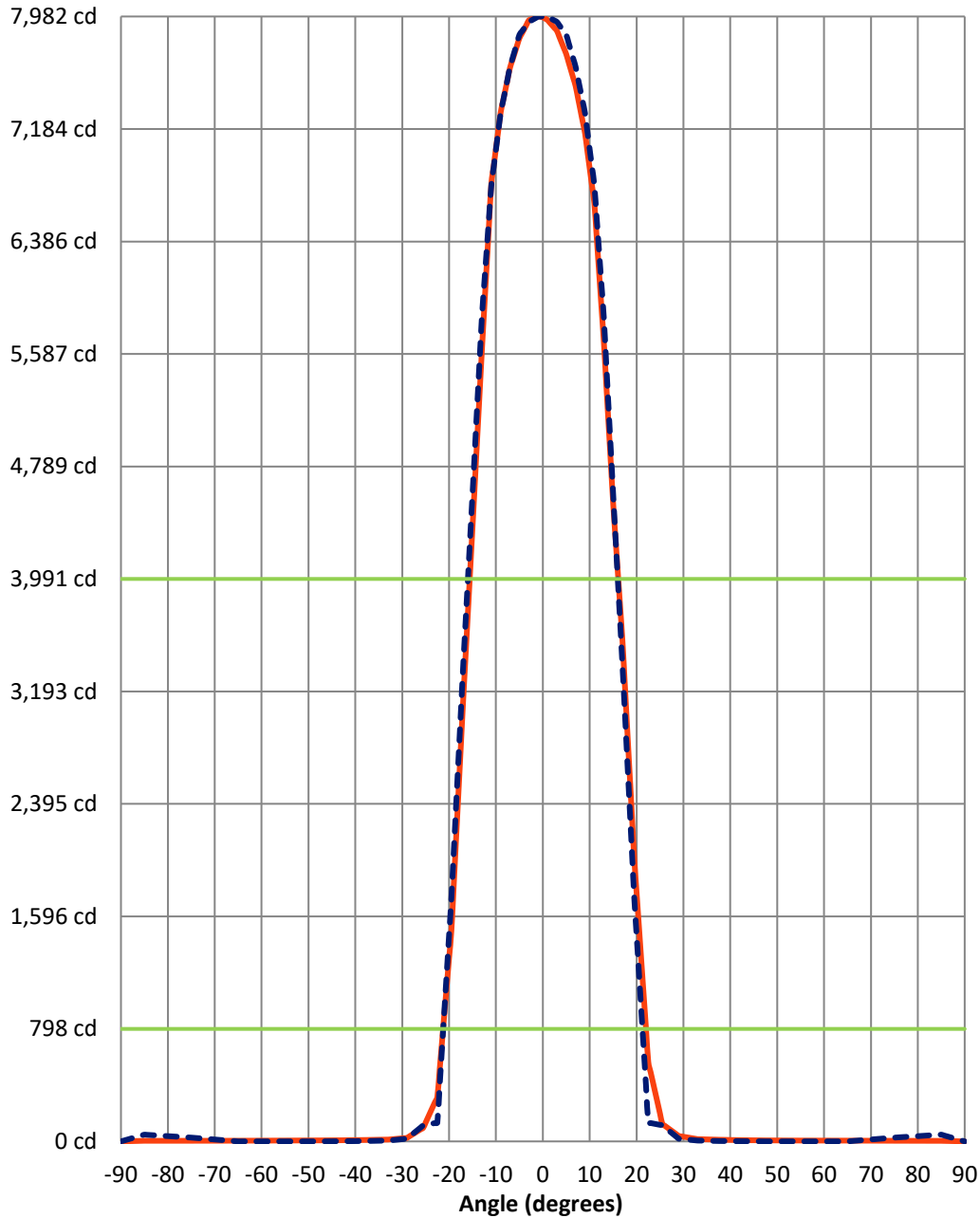
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 32°  
V Angle: 31.7°  
Lumens: 1498.1  
Efficiency: 70.9%

**Field:**  
H Angle: 42.5°  
V Angle: 43.3°  
Lumens: 1960.3  
Efficiency: 92.8%

**Spill:**  
Lumens: 152.2  
Efficiency: 7.2%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through -1-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°    | 3.8    | 5.9    | 8.6    | 6.4    | 5.9    | 5.4    | 7.0    | 14.0   | 22.0   | 30.1   | 36.5   |
| 75°    | 4.3    | 4.8    | 6.4    | 8.6    | 9.1    | 8.6    | 8.1    | 7.0    | 7.0    | 6.4    | 5.9    |
| 65°    | 5.4    | 5.4    | 5.9    | 7.0    | 8.6    | 9.7    | 9.7    | 9.7    | 9.1    | 8.6    | 8.1    |
| 55°    | 5.9    | 5.9    | 6.4    | 7.0    | 8.1    | 9.1    | 10.2   | 10.7   | 10.7   | 10.2   | 10.2   |
| 47.5°  | 7.0    | 7.0    | 7.5    | 8.1    | 8.6    | 9.7    | 10.2   | 10.7   | 11.3   | 11.3   | 11.3   |
| 42.5°  | 8.6    | 8.6    | 9.1    | 9.1    | 9.7    | 10.7   | 11.3   | 11.3   | 11.8   | 11.8   | 11.8   |
| 37.5°  | 11.8   | 11.3   | 11.8   | 11.8   | 12.4   | 12.4   | 12.9   | 12.9   | 12.9   | 12.4   | 12.4   |
| 33°    | 16.1   | 16.1   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.0   | 14.5   | 14.0   | 12.9   |
| 29°    | 38.7   | 39.2   | 36.5   | 34.4   | 30.1   | 26.3   | 22.6   | 20.4   | 18.3   | 16.6   | 15.0   |
| 25.5°  | 123.5  | 124.1  | 124.1  | 123.0  | 107.9  | 85.9   | 61.2   | 45.1   | 33.3   | 25.2   | 18.8   |
| 22.5°  | 564.4  | 571.9  | 497.3  | 441.4  | 341.0  | 267.4  | 169.2  | 116.5  | 87.0   | 59.6   | 33.3   |
| 19.5°  | 2008.0 | 2008.5 | 1836.7 | 1668.0 | 1328.6 | 974.7  | 635.3  | 373.8  | 220.2  | 120.3  | 74.6   |
| 17°    | 3546.0 | 3552.0 | 3343.0 | 3097.1 | 2643.3 | 2115.4 | 1552.6 | 1002.6 | 563.9  | 292.1  | 117.1  |
| 15°    | 4527.8 | 4538.0 | 4358.6 | 4148.6 | 3698.0 | 3137.9 | 2466.6 | 1750.7 | 1080.5 | 569.3  | 128.4  |
| 13°    | 5679.2 | 5675.9 | 5402.6 | 5128.7 | 4667.9 | 4096.0 | 3374.2 | 2565.4 | 1738.4 | 994.1  | 276.6  |
| 11°    | 6652.8 | 6645.8 | 6461.6 | 6152.3 | 5601.3 | 4996.6 | 4262.5 | 3381.7 | 2446.2 | 1503.2 | 612.8  |
| 9°     | 7152.8 | 7161.4 | 7101.2 | 6961.6 | 6428.9 | 5760.2 | 5040.1 | 4137.9 | 3125.5 | 2049.9 | 908.7  |
| 7°     | 7487.4 | 7493.3 | 7483.1 | 7493.8 | 7132.9 | 6434.8 | 5652.3 | 4759.2 | 3703.4 | 2554.7 | 1213.2 |
| 5°     | 7714.5 | 7729.0 | 7756.9 | 7776.3 | 7551.8 | 6994.4 | 6170.5 | 5237.2 | 4169.5 | 2977.9 | 1471.5 |
| 3°     | 7881.0 | 7885.8 | 7875.1 | 7809.0 | 7601.2 | 7244.1 | 6577.6 | 5605.0 | 4476.2 | 3271.1 | 1677.7 |
| 1°     | 7956.7 | 7955.1 | 7913.8 | 7815.5 | 7608.7 | 7282.2 | 6766.1 | 5837.6 | 4602.9 | 3394.6 | 1801.8 |
| 0°     | 7976.6 | 7973.4 | 7924.0 | 7827.8 | 7615.2 | 7292.9 | 6789.7 | 5879.5 | 4616.4 | 3400.5 | 1794.2 |
| -1°    | 7982.0 | 7980.9 | 7943.8 | 7852.0 | 7624.8 | 7296.2 | 6780.6 | 5852.6 | 4594.9 | 3368.8 | 1730.3 |
| -3°    | 7954.0 | 7951.9 | 7976.6 | 7908.4 | 7642.6 | 7268.8 | 6660.9 | 5626.0 | 4442.9 | 3187.3 | 1574.1 |
| -5°    | 7827.8 | 7828.4 | 7888.0 | 7915.4 | 7627.0 | 7105.5 | 6274.7 | 5240.4 | 4092.2 | 2819.4 | 1334.5 |
| -7°    | 7618.9 | 7615.2 | 7637.2 | 7613.6 | 7229.6 | 6557.7 | 5704.4 | 4718.9 | 3546.0 | 2329.1 | 1058.0 |
| -9°    | 7300.5 | 7292.4 | 7297.2 | 7022.3 | 6496.5 | 5846.7 | 5005.7 | 3970.3 | 2858.1 | 1788.9 | 756.1  |
| -11°   | 6790.3 | 6786.0 | 6570.1 | 6142.1 | 5637.8 | 4982.1 | 4054.6 | 3079.4 | 2135.3 | 1254.5 | 483.9  |
| -13°   | 5613.6 | 5640.5 | 5424.6 | 5033.1 | 4536.9 | 3861.8 | 3036.9 | 2225.5 | 1425.3 | 775.5  | 131.6  |
| -15°   | 4358.6 | 4379.5 | 4200.2 | 3840.3 | 3371.0 | 2781.8 | 2068.7 | 1395.8 | 812.0  | 414.6  | 123.5  |
| -17°   | 3124.5 | 3140.0 | 2956.9 | 2604.6 | 2178.2 | 1710.5 | 1171.3 | 719.6  | 390.4  | 179.4  | 104.7  |
| -19.5° | 1497.8 | 1516.6 | 1386.1 | 1164.8 | 911.4  | 663.8  | 413.5  | 250.8  | 128.9  | 101.0  | 53.7   |
| -22.5° | 316.3  | 324.4  | 299.7  | 257.8  | 220.2  | 184.7  | 114.4  | 89.1   | 63.9   | 41.4   | 24.7   |
| -25.5° | 97.2   | 98.8   | 93.4   | 82.7   | 68.7   | 55.9   | 38.7   | 30.6   | 24.2   | 19.3   | 16.1   |
| -29°   | 24.7   | 25.2   | 24.7   | 23.1   | 20.9   | 19.9   | 18.3   | 16.6   | 15.6   | 14.5   | 13.4   |
| -33°   | 12.9   | 12.9   | 12.9   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 12.9   | 12.4   |
| -37.5° | 10.2   | 10.2   | 10.2   | 10.7   | 10.7   | 11.3   | 11.8   | 12.4   | 12.4   | 12.4   | 12.4   |
| -42.5° | 8.1    | 8.1    | 8.6    | 8.6    | 9.7    | 10.2   | 10.7   | 11.3   | 11.8   | 11.8   | 11.8   |
| -47.5° | 7.0    | 7.0    | 7.0    | 7.5    | 8.6    | 9.7    | 10.2   | 10.7   | 11.3   | 11.3   | 11.3   |
| -55°   | 5.9    | 5.9    | 6.4    | 7.0    | 8.1    | 9.1    | 9.7    | 10.2   | 10.7   | 10.2   | 10.2   |
| -65°   | 4.8    | 5.4    | 5.9    | 7.0    | 8.6    | 9.7    | 9.7    | 9.7    | 9.1    | 8.6    | 8.1    |
| -75°   | 4.3    | 4.8    | 6.4    | 8.6    | 9.1    | 8.6    | 8.1    | 7.0    | 7.0    | 6.4    | 5.9    |
| -85°   | 4.3    | 5.9    | 8.6    | 6.4    | 5.9    | 5.4    | 7.0    | 14.0   | 22.0   | 30.1   | 36.5   |
| -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):**

|        | 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°    | 42.4  | 46.7  | 48.9 | 49.9 | 51.0  | 52.1  | 52.6  | 53.2 | 53.2 | 53.7 | 53.7 |
| 75°    | 5.9   | 5.4   | 5.4  | 11.8 | 19.9  | 30.1  | 37.6  | 46.7 | 50.5 | 52.6 | 53.7 |
| 65°    | 7.5   | 7.0   | 6.4  | 5.9  | 5.4   | 5.9   | 12.4  | 27.4 | 44.0 | 51.0 | 53.2 |
| 55°    | 9.1   | 8.1   | 7.5  | 6.4  | 5.9   | 5.4   | 4.8   | 10.7 | 32.2 | 48.3 | 53.2 |
| 47.5°  | 10.2  | 9.7   | 8.6  | 7.0  | 6.4   | 5.4   | 4.8   | 4.3  | 23.1 | 46.2 | 53.2 |
| 42.5°  | 10.7  | 10.2  | 8.6  | 7.5  | 6.4   | 5.4   | 4.8   | 4.3  | 17.7 | 43.5 | 52.6 |
| 37.5°  | 11.3  | 10.2  | 9.1  | 7.5  | 6.4   | 5.4   | 4.8   | 3.8  | 12.9 | 41.4 | 52.6 |
| 33°    | 11.8  | 10.7  | 9.1  | 7.5  | 6.4   | 5.4   | 4.3   | 3.2  | 10.7 | 38.7 | 52.1 |
| 29°    | 12.9  | 11.3  | 9.1  | 7.5  | 6.4   | 4.8   | 3.8   | 2.7  | 8.6  | 36.5 | 51.6 |
| 25.5°  | 14.5  | 11.8  | 9.7  | 7.5  | 5.9   | 4.3   | 3.2   | 2.1  | 6.4  | 34.9 | 51.6 |
| 22.5°  | 18.3  | 13.4  | 10.2 | 7.5  | 5.4   | 3.8   | 2.7   | 1.6  | 4.8  | 33.3 | 51.0 |
| 19.5°  | 27.9  | 15.6  | 10.7 | 7.5  | 4.8   | 3.2   | 2.1   | 1.1  | 3.2  | 31.7 | 50.5 |
| 17°    | 54.8  | 19.3  | 11.3 | 7.0  | 4.3   | 2.7   | 1.6   | 0.5  | 2.1  | 31.1 | 49.9 |
| 15°    | 85.9  | 25.8  | 11.8 | 7.0  | 4.3   | 2.7   | 1.6   | 0.5  | 1.1  | 30.1 | 49.9 |
| 13°    | 116.0 | 38.1  | 12.4 | 7.0  | 3.8   | 2.1   | 1.1   | 0.0  | 0.5  | 29.5 | 49.4 |
| 11°    | 125.7 | 53.7  | 13.4 | 6.4  | 3.2   | 2.1   | 1.1   | 0.0  | 0.0  | 29.0 | 49.4 |
| 9°     | 129.4 | 70.4  | 14.5 | 6.4  | 3.2   | 1.6   | 0.5   | 0.0  | 0.0  | 28.5 | 48.9 |
| 7°     | 132.1 | 86.5  | 15.6 | 5.9  | 2.7   | 1.6   | 0.5   | 0.0  | 0.0  | 27.9 | 48.9 |
| 5°     | 132.6 | 100.4 | 17.2 | 5.9  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 27.4 | 48.3 |
| 3°     | 133.2 | 110.6 | 18.3 | 5.9  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 27.4 | 48.3 |
| 1°     | 133.2 | 116.0 | 19.3 | 5.9  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 26.9 | 48.3 |
| 0°     | 449.5 | 116.0 | 19.3 | 5.9  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 26.9 | 48.3 |
| -1°    | 133.2 | 113.9 | 18.8 | 5.9  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 26.9 | 47.8 |
| -3°    | 132.6 | 106.3 | 17.2 | 5.9  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 26.9 | 48.3 |
| -5°    | 132.1 | 94.5  | 15.6 | 5.4  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 27.4 | 48.3 |
| -7°    | 131.0 | 78.4  | 14.0 | 5.4  | 2.7   | 1.1   | 0.0   | 0.0  | 0.0  | 27.4 | 48.3 |
| -9°    | 127.8 | 60.7  | 12.9 | 5.4  | 2.7   | 1.6   | 0.5   | 0.0  | 0.0  | 27.9 | 48.3 |
| -11°   | 123.0 | 44.0  | 11.8 | 5.9  | 3.2   | 1.6   | 0.5   | 0.0  | 0.0  | 28.5 | 48.9 |
| -13°   | 104.7 | 30.1  | 10.7 | 5.9  | 3.2   | 2.1   | 1.1   | 0.0  | 0.0  | 29.0 | 48.9 |
| -15°   | 69.3  | 20.9  | 10.2 | 5.9  | 3.2   | 2.1   | 1.1   | 0.0  | 0.5  | 29.5 | 49.4 |
| -17°   | 41.4  | 16.1  | 9.7  | 5.9  | 3.8   | 2.1   | 1.6   | 0.5  | 1.1  | 30.1 | 49.4 |
| -19.5° | 22.0  | 12.9  | 9.1  | 5.9  | 3.8   | 2.7   | 1.6   | 0.5  | 2.1  | 31.1 | 49.9 |
| -22.5° | 15.0  | 11.3  | 8.6  | 6.4  | 4.8   | 3.2   | 2.1   | 1.1  | 3.8  | 32.8 | 50.5 |
| -25.5° | 12.9  | 10.7  | 8.6  | 7.0  | 5.4   | 3.8   | 2.7   | 2.1  | 5.9  | 34.4 | 51.0 |
| -29°   | 11.8  | 10.2  | 8.6  | 7.5  | 5.9   | 4.3   | 3.8   | 2.7  | 8.1  | 36.5 | 51.6 |
| -33°   | 11.8  | 10.7  | 9.1  | 7.5  | 6.4   | 5.4   | 4.3   | 3.2  | 10.7 | 38.7 | 52.1 |
| -37.5° | 11.3  | 10.7  | 9.1  | 8.1  | 6.4   | 5.4   | 4.8   | 4.3  | 14.0 | 41.4 | 52.6 |
| -42.5° | 11.3  | 10.2  | 9.1  | 7.5  | 6.4   | 5.9   | 4.8   | 4.8  | 18.3 | 44.0 | 52.6 |
| -47.5° | 10.7  | 9.7   | 8.6  | 7.5  | 6.4   | 5.9   | 4.8   | 4.8  | 23.6 | 46.7 | 53.2 |
| -55°   | 9.1   | 8.6   | 7.5  | 7.0  | 6.4   | 5.4   | 5.4   | 11.3 | 33.3 | 48.9 | 53.2 |
| -65°   | 7.5   | 7.0   | 6.4  | 5.9  | 5.4   | 5.9   | 12.9  | 27.9 | 44.6 | 51.0 | 53.2 |
| -75°   | 5.9   | 5.4   | 5.9  | 11.8 | 19.9  | 30.6  | 38.1  | 47.3 | 51.0 | 53.2 | 53.7 |
| -85°   | 42.4  | 46.7  | 48.9 | 49.9 | 51.6  | 52.1  | 52.6  | 53.2 | 53.2 | 53.7 | 53.7 |
| -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: P95388

CATALOG NUMBER: VFS-K-B20-3-LED-E1-NSR

**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)