

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: NEORAY

Report Number: CRT2202031552-001

Luminaire Tested: **GUV-W-8**

Issue Date: 04/01/2022



**Test Information**

Test Method: LM-79-08  
Report Number: CRT2202031552-001  
The data set was measured in RADIOMETRIC UNITS.  
Test Lab: Intertek Cortland  
Issue Date: 04/01/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEORAY  
Catalog Number: GUV-W-8  
Description: Define Upper Air 8' Wall Mount Fixture  
Light Source: (2) 36W T8  
Ballast/Driver: -

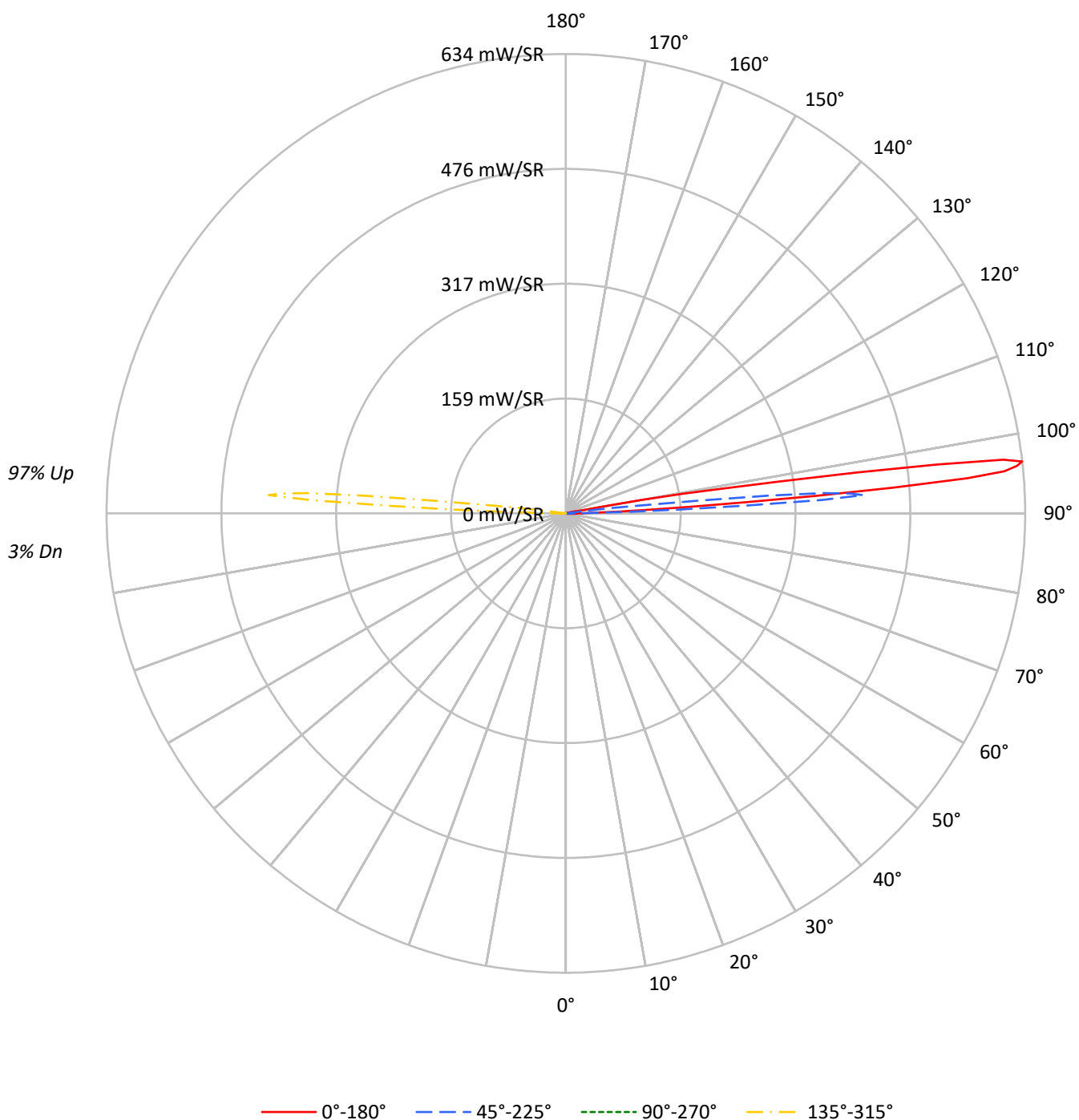
**Summary**

Output per Lamp: N/A  
Luminaire UV Output: 83.2 mW  
Efficiency: N/A  
UV Efficacy: 1.7 UV mW/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 8' x L: 0.5' x H: 0')  
CIE Type: Indirect

Input Watts (W): 47.61  
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: 6.8 FT

TEST NUMBER: CRT2202031552-001  
CATALOG NUMBER: GUV-W-8

### Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80 |    |    |    | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 96 | 96 | 96 | 96 | 83 | 83 | 83 | 83 | 57 | 57 | 57 | 35 | 35 | 35 | 13 | 13 | 13 |
| 1   | 86 | 82 | 78 | 74 | 74 | 70 | 67 | 64 | 48 | 46 | 45 | 28 | 27 | 26 | 10 | 10 | 9  |
| 2   | 78 | 71 | 65 | 60 | 67 | 61 | 56 | 52 | 42 | 39 | 36 | 25 | 23 | 21 | 9  | 8  | 7  |
| 3   | 71 | 62 | 55 | 50 | 61 | 54 | 48 | 43 | 37 | 33 | 30 | 22 | 20 | 18 | 8  | 7  | 6  |
| 4   | 65 | 55 | 47 | 42 | 55 | 47 | 41 | 36 | 33 | 29 | 26 | 19 | 17 | 15 | 7  | 6  | 5  |
| 5   | 59 | 49 | 41 | 35 | 51 | 42 | 35 | 31 | 29 | 25 | 22 | 17 | 15 | 13 | 6  | 5  | 4  |
| 6   | 55 | 43 | 36 | 30 | 46 | 37 | 31 | 26 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  |
| 7   | 50 | 39 | 31 | 26 | 43 | 33 | 27 | 23 | 23 | 19 | 16 | 14 | 11 | 10 | 5  | 4  | 3  |
| 8   | 46 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 8  | 4  | 4  | 3  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 21 | 17 | 19 | 15 | 12 | 11 | 9  | 7  | 4  | 3  | 2  |
| 10  | 40 | 29 | 22 | 17 | 34 | 25 | 19 | 15 | 17 | 13 | 11 | 10 | 8  | 6  | 4  | 3  | 2  |

**AVERAGE LUMINANCE (mW/SR/sqm):**

|     | 0°  | 90° | 180° | 270° |
|-----|-----|-----|------|------|
| 0°  | 0   | 0   | 0    | 0    |
| 5°  | 0   | 0   | 0    | 0    |
| 10° | 0   | 0   | 0    | 0    |
| 15° | 0   | 0   | 0    | 0    |
| 20° | 0   | 0   | 0    | 0    |
| 25° | 0   | 0   | 0    | 0    |
| 30° | 0   | 0   | 0    | 0    |
| 35° | 0   | 0   | 0    | 0    |
| 40° | 0   | 0   | 0    | 0    |
| 45° | 0   | 0   | 0    | 0    |
| 50° | 0   | 0   | 0    | 0    |
| 55° | 0   | 0   | 0    | 0    |
| 60° | 0   | 0   | 0    | 0    |
| 65° | 3   | 0   | 0    | 0    |
| 70° | 8   | 0   | 0    | 0    |
| 75° | 26  | 0   | 0    | 0    |
| 80° | 62  | 0   | 0    | 0    |
| 85° | 216 | 0   | 0    | 0    |



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**ZONAL OUTPUT:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.1    | 0.1       |
| 70°-80°   | 0.5    | 0.6       |
| 80°-90°   | 2.3    | 2.8       |
| 90°-100°  | 78.9   | 94.8      |
| 100°-110° | 1.4    | 1.7       |
| 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°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.9    | 3.5       |
| 90°-120°  | 80.3   | 96.5      |
| 90°-150°  | 80.3   | 96.5      |
| 90°-180°  | 80.0   | 96.2      |
| 0°-180°   | 83.2   | 100.0     |

**INTENSITY DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 0   | 0   | 0    | 0    | 0    |      |
| 5°   | 0   | 0   | 0    | 0    | 0    | 0    |
| 15°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 25°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 35°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 45°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 55°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 65°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 75°  | 2   | 0   | 0    | 0    | 2    | 3    |
| 85°  | 7   | 0   | 0    | 0    | 7    | 6    |
| 90°  | 17  | 0   | 0    | 0    | 17   | 18   |
| 95°  | 557 | 0   | 0    | 0    | 557  | 325  |
| 105° | 1   | 0   | 0    | 0    | 1    | 11   |
| 115° | 0   | 0   | 0    | 0    | 0    | 0    |
| 125° | 0   | 0   | 0    | 0    | 0    | 0    |
| 135° | 0   | 0   | 0    | 0    | 0    | 0    |
| 145° | 0   | 0   | 0    | 0    | 0    | 0    |
| 155° | 0   | 0   | 0    | 0    | 0    | 0    |
| 165° | 0   | 0   | 0    | 0    | 0    | 0    |
| 175° | 0   | 0   | 0    | 0    | 0    | 0    |
| 180° | 0   | 0   | 0    | 0    | 0    |      |



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**INTENSITY DISTRIBUTION (FULL):**

|        | 0°  | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0°     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 10°    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 20°    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 30°    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 40°    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 50°    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 60°    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 70°    | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 80°    | 4   | 4   | 2   | 1   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 85°    | 7   | 6   | 4   | 2   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 90°    | 17  | 18  | 16  | 11  | 5   | 2   | 0   | 0    | 0    | 0    | 0    |
| 90.5°  | 22  | 24  | 22  | 18  | 14  | 15  | 0   | 0    | 0    | 0    | 0    |
| 91°    | 30  | 34  | 36  | 41  | 52  | 48  | 0   | 0    | 0    | 0    | 0    |
| 91.5°  | 45  | 58  | 71  | 89  | 118 | 47  | 0   | 0    | 0    | 0    | 0    |
| 92°    | 75  | 97  | 120 | 159 | 200 | 16  | 0   | 0    | 0    | 0    | 0    |
| 92.5°  | 115 | 146 | 188 | 248 | 241 | 1   | 0   | 0    | 0    | 0    | 0    |
| 93°    | 170 | 215 | 276 | 354 | 209 | 0   | 0   | 0    | 0    | 0    | 0    |
| 93.5°  | 248 | 305 | 380 | 411 | 147 | 0   | 0   | 0    | 0    | 0    | 0    |
| 94°    | 346 | 411 | 488 | 394 | 71  | 0   | 0   | 0    | 0    | 0    | 0    |
| 94.5°  | 453 | 522 | 527 | 357 | 31  | 0   | 0   | 0    | 0    | 0    | 0    |
| 95°    | 557 | 587 | 516 | 281 | 11  | 0   | 0   | 0    | 0    | 0    | 0    |
| 95.5°  | 608 | 594 | 492 | 182 | 3   | 0   | 0   | 0    | 0    | 0    | 0    |
| 96°    | 626 | 591 | 434 | 101 | 2   | 0   | 0   | 0    | 0    | 0    | 0    |
| 96.5°  | 634 | 567 | 333 | 65  | 2   | 0   | 0   | 0    | 0    | 0    | 0    |
| 97°    | 608 | 485 | 224 | 32  | 2   | 0   | 0   | 0    | 0    | 0    | 0    |
| 97.5°  | 516 | 377 | 148 | 12  | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 98°    | 405 | 266 | 104 | 8   | 1   | 1   | 0   | 0    | 0    | 0    | 0    |
| 98.5°  | 298 | 191 | 63  | 6   | 1   | 1   | 0   | 0    | 0    | 0    | 0    |
| 99°    | 221 | 141 | 27  | 6   | 2   | 1   | 0   | 0    | 0    | 0    | 0    |
| 99.5°  | 163 | 91  | 16  | 5   | 2   | 1   | 0   | 0    | 0    | 0    | 0    |
| 100°   | 106 | 46  | 12  | 4   | 2   | 1   | 0   | 0    | 0    | 0    | 0    |
| 100.5° | 53  | 23  | 10  | 3   | 1   | 1   | 0   | 0    | 0    | 0    | 0    |
| 101°   | 25  | 16  | 9   | 2   | 2   | 1   | 0   | 0    | 0    | 0    | 0    |
| 101.5° | 17  | 13  | 7   | 2   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 102°   | 15  | 12  | 6   | 2   | 1   | 1   | 0   | 0    | 0    | 0    | 0    |
| 102.5° | 13  | 10  | 4   | 2   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 103°   | 11  | 8   | 2   | 2   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 103.5° | 9   | 6   | 2   | 2   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 104°   | 7   | 3   | 1   | 2   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 104.5° | 4   | 1   | 1   | 2   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 105°   | 1   | 0   | 1   | 1   | 1   | 0   | 0   | 0    | 0    | 0    | 0    |
| 110°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 120°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 130°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 140°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |



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CATALOG NUMBER: GUV-W-8

**INTENSITY DISTRIBUTION (continued):**

|      | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 150° | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 160° | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 170° | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| 180° | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    |



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CATALOG NUMBER: GUV-W-8

**INTENSITY DISTRIBUTION (continued):**

|        | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 0°     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 10°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 20°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 30°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 40°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 50°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 60°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 70°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 80°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    |
| 85°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    |
| 90°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 5    | 11   |
| 90.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 15   | 14   | 18   |
| 91°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 48   | 52   | 41   |
| 91.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 47   | 118  | 89   |
| 92°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 16   | 200  | 159  |
| 92.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 241  | 248  |
| 93°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 209  | 354  |
| 93.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 147  | 411  |
| 94°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 71   | 394  |
| 94.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 31   | 357  |
| 95°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 11   | 281  |
| 95.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 182  |
| 96°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 101  |
| 96.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 65   |
| 97°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 32   |
| 97.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 12   |
| 98°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 8    |
| 98.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 6    |
| 99°    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 6    |
| 99.5°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 5    |
| 100°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 4    |
| 100.5° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 3    |
| 101°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 2    |
| 101.5° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    |
| 102°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 2    |
| 102.5° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    |
| 103°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    |
| 103.5° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    |
| 104°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    |
| 104.5° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    |
| 105°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    |
| 110°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 120°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 130°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 140°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



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**INTENSITY DISTRIBUTION (continued):**

|      | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 150° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 160° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 170° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



TEST NUMBER: CRT2202031552-001  
CATALOG NUMBER: GUV-W-8

**INTENSITY DISTRIBUTION (continued):**

|        | 330° | 345° | 360° |
|--------|------|------|------|
| 0°     | 0    | 0    | 0    |
| 10°    | 0    | 0    | 0    |
| 20°    | 0    | 0    | 0    |
| 30°    | 0    | 0    | 0    |
| 40°    | 0    | 0    | 0    |
| 50°    | 0    | 0    | 0    |
| 60°    | 0    | 0    | 0    |
| 70°    | 1    | 1    | 1    |
| 80°    | 2    | 4    | 4    |
| 85°    | 4    | 6    | 7    |
| 90°    | 16   | 18   | 17   |
| 90.5°  | 22   | 24   | 22   |
| 91°    | 36   | 34   | 30   |
| 91.5°  | 71   | 58   | 45   |
| 92°    | 120  | 97   | 75   |
| 92.5°  | 188  | 146  | 115  |
| 93°    | 276  | 215  | 170  |
| 93.5°  | 380  | 305  | 248  |
| 94°    | 488  | 411  | 346  |
| 94.5°  | 527  | 522  | 453  |
| 95°    | 516  | 587  | 557  |
| 95.5°  | 492  | 594  | 608  |
| 96°    | 434  | 591  | 626  |
| 96.5°  | 333  | 567  | 634  |
| 97°    | 224  | 485  | 608  |
| 97.5°  | 148  | 377  | 516  |
| 98°    | 104  | 266  | 405  |
| 98.5°  | 63   | 191  | 298  |
| 99°    | 27   | 141  | 221  |
| 99.5°  | 16   | 91   | 163  |
| 100°   | 12   | 46   | 106  |
| 100.5° | 10   | 23   | 53   |
| 101°   | 9    | 16   | 25   |
| 101.5° | 7    | 13   | 17   |
| 102°   | 6    | 12   | 15   |
| 102.5° | 4    | 10   | 13   |
| 103°   | 2    | 8    | 11   |
| 103.5° | 2    | 6    | 9    |
| 104°   | 1    | 3    | 7    |
| 104.5° | 1    | 1    | 4    |
| 105°   | 1    | 0    | 1    |
| 110°   | 0    | 0    | 0    |
| 120°   | 0    | 0    | 0    |
| 130°   | 0    | 0    | 0    |
| 140°   | 0    | 0    | 0    |



TEST NUMBER: CRT2202031552-001  
CATALOG NUMBER: GUV-W-8

**INTENSITY DISTRIBUTION (continued):**

|      | 330° | 345° | 360° |
|------|------|------|------|
| 150° | 0    | 0    | 0    |
| 160° | 0    | 0    | 0    |
| 170° | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    |

(END OF REPORT)