

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P622021

Luminaire Tested: VLT-WB-M-075U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622021  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/28/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-WB-M-075U-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

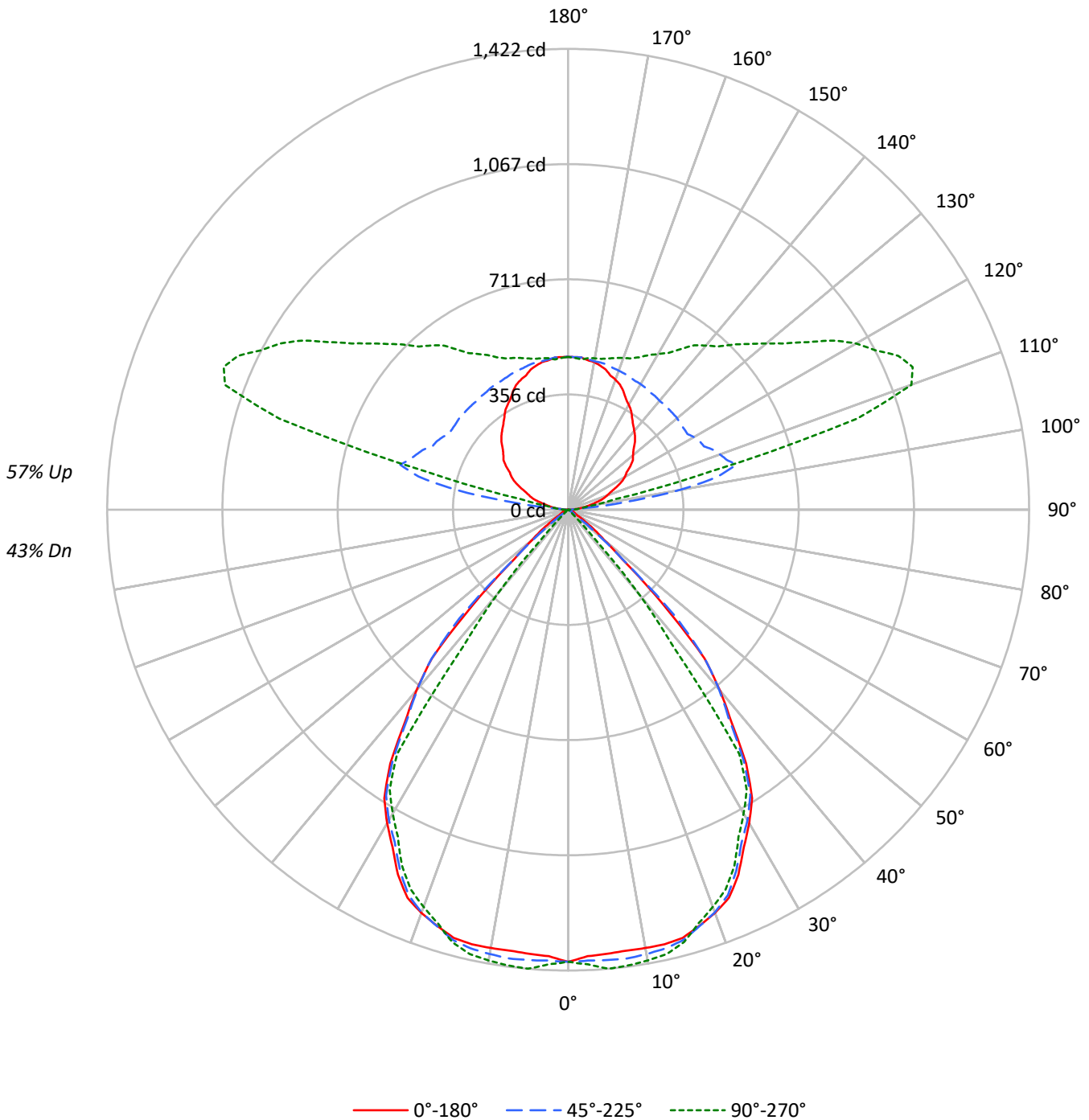
Lumens per Lamp: N/A  
Luminaire Lumens: 4468.3 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42  
Input Voltage (V): 120  
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: 24 FT



TEST NUMBER: P622021  
CATALOG NUMBER: VLT-WB-M-075U-050D-930-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P622021

CATALOG NUMBER: VLT-WB-M-075U-050D-930-UNV-STD-W-4

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

|     |     |     |     |     |    |    |    |    |    |    |    |  |    |    |    |  |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|--|----|----|----|--|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |  | 20 |    |    |  | 20 |    |    |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |  | 30 |    |    |  | 10 | 0  |    |    |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |  |    |    |    |  |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 |  | 64 | 64 | 64 |  | 50 | 50 | 50 | 43 |
| 1   | 98  | 94  | 91  | 88  | 90 | 87 | 84 | 82 | 72 | 71 | 69 |  | 59 | 58 | 57 |  | 47 | 46 | 46 | 40 |
| 2   | 91  | 85  | 80  | 75  | 83 | 78 | 74 | 70 | 66 | 63 | 60 |  | 54 | 52 | 51 |  | 44 | 42 | 41 | 37 |
| 3   | 84  | 76  | 70  | 65  | 77 | 70 | 65 | 61 | 60 | 56 | 53 |  | 50 | 47 | 45 |  | 40 | 39 | 38 | 33 |
| 4   | 78  | 69  | 62  | 57  | 72 | 64 | 58 | 54 | 54 | 50 | 47 |  | 46 | 43 | 40 |  | 38 | 36 | 34 | 31 |
| 5   | 72  | 62  | 55  | 50  | 67 | 58 | 52 | 47 | 50 | 45 | 42 |  | 42 | 39 | 36 |  | 35 | 33 | 31 | 28 |
| 6   | 67  | 57  | 50  | 45  | 62 | 53 | 47 | 42 | 46 | 41 | 38 |  | 39 | 36 | 33 |  | 32 | 30 | 29 | 26 |
| 7   | 63  | 52  | 45  | 40  | 58 | 49 | 42 | 38 | 42 | 37 | 34 |  | 36 | 33 | 30 |  | 30 | 28 | 26 | 24 |
| 8   | 59  | 48  | 41  | 36  | 54 | 45 | 39 | 34 | 39 | 34 | 31 |  | 33 | 30 | 27 |  | 28 | 26 | 24 | 22 |
| 9   | 55  | 44  | 37  | 33  | 51 | 41 | 35 | 31 | 36 | 31 | 28 |  | 31 | 28 | 25 |  | 26 | 24 | 22 | 20 |
| 10  | 51  | 41  | 34  | 30  | 48 | 38 | 32 | 28 | 33 | 29 | 26 |  | 29 | 26 | 23 |  | 25 | 22 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10010 | 10010 | 10010 |
| 5°  | 9907  | 10049 | 10241 |
| 10° | 10007 | 10144 | 10295 |
| 15° | 10159 | 10210 | 10261 |
| 20° | 10110 | 10095 | 9959  |
| 25° | 9834  | 9717  | 9600  |
| 30° | 9252  | 9162  | 8966  |
| 35° | 8381  | 8259  | 8060  |
| 40° | 6816  | 6770  | 3200  |
| 45° | 4218  | 4809  | 220   |
| 50° | 1609  | 1289  | 132   |
| 55° | 791   | 235   | 49    |
| 60° | 383   | 113   | 14    |
| 65° | 351   | 17    | 17    |
| 70° | 332   | 21    | 21    |
| 75° | 327   | 28    | 28    |
| 80° | 326   | 41    | 0     |
| 85° | 321   | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 4809 cd/sqm



TEST NUMBER: P622021

CATALOG NUMBER: VLT-WB-M-075U-050D-930-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.2  | 3.0       |
| 10°-20°   | 386.5  | 8.6       |
| 20°-30°   | 561.9  | 12.6      |
| 30°-40°   | 559.2  | 12.5      |
| 40°-50°   | 245.9  | 5.5       |
| 50°-60°   | 36.3   | 0.8       |
| 60°-70°   | 8.3    | 0.2       |
| 70°-80°   | 3.1    | 0.1       |
| 80°-90°   | 1.8    | 0.0       |
| 90°-100°  | 57.9   | 1.3       |
| 100°-110° | 413.0  | 9.2       |
| 110°-120° | 560.7  | 12.5      |
| 120°-130° | 456.3  | 10.2      |
| 130°-140° | 367.0  | 8.2       |
| 140°-150° | 289.3  | 6.5       |
| 150°-160° | 211.6  | 4.7       |
| 160°-170° | 131.4  | 2.9       |
| 170°-180° | 44.8   | 1.0       |
| 0°-30°    | 1081.6 | 24.2      |
| 0°-40°    | 1640.8 | 36.7      |
| 0°-60°    | 1923.0 | 43.0      |
| 0°-90°    | 1936.2 | 43.3      |
| 90°-120°  | 1031.6 | 23.1      |
| 90°-150°  | 2144.3 | 48.0      |
| 90°-180°  | 2532.0 | 56.7      |
| 0°-180°   | 4468.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1395 | 1395  | 1395 | 1395  | 1395 |      |
| 5°   | 1375 | 1399  | 1395 | 1398  | 1422 | 131  |
| 15°  | 1367 | 1396  | 1374 | 1361  | 1381 | 384  |
| 25°  | 1242 | 1265  | 1227 | 1195  | 1212 | 568  |
| 35°  | 957  | 954   | 943  | 923   | 920  | 586  |
| 45°  | 416  | 473   | 474  | 31    | 22   | 322  |
| 55°  | 63   | 68    | 19   | 7     | 4    | 64   |
| 65°  | 21   | 18    | 1    | 1     | 1    | 21   |
| 75°  | 12   | 2     | 1    | 1     | 1    | 12   |
| 85°  | 4    | 0     | 0    | 0     | 0    | 4    |
| 90°  | 0    | 3     | 6    | 9     | 9    | 1    |
| 95°  | 24   | 44    | 24   | 27    | 33   | 27   |
| 105° | 92   | 141   | 537  | 686   | 454  | 97   |
| 115° | 163  | 198   | 462  | 961   | 1124 | 162  |
| 125° | 234  | 266   | 436  | 762   | 901  | 208  |
| 135° | 290  | 322   | 439  | 628   | 720  | 224  |
| 145° | 344  | 373   | 442  | 547   | 605  | 216  |
| 155° | 403  | 418   | 451  | 496   | 519  | 185  |
| 165° | 448  | 454   | 462  | 474   | 483  | 126  |
| 175° | 471  | 474   | 471  | 468   | 465  | 45   |
| 180° | 471  | 471   | 471  | 471   | 471  |      |



TEST NUMBER: P622021

CATALOG NUMBER: VLT-WB-M-075U-050D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1395.0 | 1395.0 | 1395.0 | 1395.0 | 1395.0 |
| 2.5°   | 1379.2 | 1400.1 | 1392.6 | 1392.1 | 1404.5 |
| 5°     | 1375.3 | 1399.4 | 1395.0 | 1398.5 | 1421.7 |
| 7.5°   | 1372.5 | 1396.8 | 1396.8 | 1395.2 | 1418.3 |
| 10°    | 1373.3 | 1398.4 | 1392.1 | 1389.6 | 1412.8 |
| 12.5°  | 1373.3 | 1399.9 | 1386.5 | 1380.2 | 1404.1 |
| 15°    | 1367.4 | 1396.3 | 1374.3 | 1360.9 | 1381.2 |
| 17.5°  | 1346.0 | 1377.5 | 1347.2 | 1321.2 | 1338.2 |
| 20°    | 1323.9 | 1357.7 | 1322.0 | 1288.7 | 1304.2 |
| 22.5°  | 1296.3 | 1326.2 | 1287.2 | 1252.4 | 1268.6 |
| 25°    | 1242.0 | 1265.2 | 1227.2 | 1195.0 | 1212.4 |
| 27.5°  | 1173.5 | 1186.2 | 1157.9 | 1126.9 | 1138.1 |
| 30°    | 1116.6 | 1126.3 | 1105.7 | 1076.3 | 1082.1 |
| 32.5°  | 1055.8 | 1062.4 | 1045.7 | 1020.2 | 1025.2 |
| 35°    | 956.7  | 953.8  | 942.8  | 923.0  | 920.1  |
| 37.5°  | 827.1  | 822.1  | 815.1  | 738.5  | 529.6  |
| 40°    | 727.6  | 729.6  | 722.7  | 451.6  | 341.6  |
| 42.5°  | 622.6  | 634.5  | 624.7  | 307.5  | 111.8  |
| 45°    | 415.6  | 472.6  | 473.9  | 31.4   | 21.7   |
| 47.5°  | 224.7  | 286.7  | 233.2  | 19.5   | 15.8   |
| 50°    | 144.1  | 179.9  | 115.5  | 14.7   | 11.8   |
| 52.5°  | 103.1  | 120.3  | 45.2   | 11.6   | 8.7    |
| 55°    | 63.2   | 68.0   | 18.8   | 6.8    | 3.9    |
| 57.5°  | 37.7   | 44.9   | 11.8   | 2.5    | 1.0    |
| 60°    | 26.7   | 31.5   | 7.9    | 1.0    | 1.0    |
| 62.5°  | 23.5   | 23.7   | 5.5    | 1.0    | 1.0    |
| 65°    | 20.7   | 17.8   | 1.0    | 1.0    | 1.0    |
| 67.5°  | 18.2   | 13.0   | 1.0    | 1.0    | 1.0    |
| 70°    | 15.8   | 9.0    | 1.0    | 1.0    | 1.0    |
| 72.5°  | 14.2   | 5.9    | 1.0    | 1.0    | 1.0    |
| 75°    | 11.8   | 2.2    | 1.0    | 1.0    | 1.0    |
| 77.5°  | 9.5    | 1.2    | 1.0    | 0.8    | 0.8    |
| 80°    | 7.9    | 1.1    | 1.0    | 0.0    | 0.0    |
| 82.5°  | 6.3    | 1.1    | 0.2    | 0.0    | 0.0    |
| 85°    | 3.9    | 0.1    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 1.6    | 0.6    | 1.2    | 1.8    | 1.8    |
| 90°    | 0.0    | 2.9    | 5.9    | 8.9    | 8.9    |
| 92.5°  | 7.1    | 10.0   | 13.0   | 18.4   | 20.8   |
| 95°    | 23.7   | 44.0   | 23.7   | 26.8   | 32.6   |
| 97.5°  | 42.1   | 84.4   | 174.3  | 51.4   | 44.5   |
| 100°   | 56.3   | 105.6  | 349.8  | 103.0  | 68.2   |
| 102.5° | 70.6   | 122.2  | 473.2  | 271.7  | 148.8  |
| 105°   | 91.9   | 141.2  | 536.6  | 685.5  | 453.6  |
| 107.5° | 113.2  | 150.4  | 512.3  | 997.6  | 934.5  |
| 110°   | 127.5  | 162.3  | 498.1  | 1048.3 | 1126.6 |



TEST NUMBER: P622021

CATALOG NUMBER: VLT-WB-M-075U-050D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 141.7 | 176.5 | 483.8 | 1018.7 | 1150.3 |
| 115°   | 163.1 | 197.8 | 462.5 | 961.3  | 1123.6 |
| 117.5° | 185.0 | 219.2 | 457.1 | 899.1  | 1066.1 |
| 120°   | 201.6 | 233.5 | 447.7 | 851.8  | 1025.8 |
| 122.5° | 213.5 | 247.7 | 435.8 | 811.2  | 971.2  |
| 125°   | 234.2 | 266.1 | 435.8 | 762.1  | 901.2  |
| 127.5° | 251.4 | 283.9 | 436.4 | 705.1  | 842.5  |
| 130°   | 260.9 | 295.7 | 438.8 | 667.0  | 797.5  |
| 132.5° | 272.7 | 307.5 | 438.8 | 649.9  | 757.2  |
| 135°   | 290.5 | 322.4 | 438.8 | 627.6  | 720.4  |
| 137.5° | 305.4 | 339.6 | 438.8 | 603.0  | 682.5  |
| 140°   | 317.2 | 349.1 | 438.8 | 588.6  | 661.1  |
| 142.5° | 329.1 | 358.6 | 441.1 | 571.9  | 639.8  |
| 145°   | 343.9 | 372.9 | 441.7 | 546.8  | 604.8  |
| 147.5° | 361.7 | 387.2 | 445.3 | 528.7  | 573.4  |
| 150°   | 373.5 | 396.7 | 447.7 | 516.7  | 554.4  |
| 152.5° | 385.4 | 406.3 | 447.7 | 507.1  | 537.8  |
| 155°   | 403.2 | 417.7 | 450.6 | 495.6  | 518.8  |
| 157.5° | 417.4 | 431.3 | 454.2 | 488.4  | 505.2  |
| 160°   | 426.9 | 438.5 | 456.6 | 483.6  | 498.1  |
| 162.5° | 434.0 | 445.6 | 458.9 | 481.1  | 490.9  |
| 165°   | 447.7 | 453.5 | 462.5 | 474.5  | 483.2  |
| 167.5° | 455.4 | 460.6 | 465.4 | 471.5  | 476.7  |
| 170°   | 462.5 | 465.4 | 465.4 | 471.4  | 474.3  |
| 172.5° | 464.9 | 470.1 | 467.8 | 469.1  | 472.0  |
| 175°   | 471.4 | 474.3 | 471.4 | 468.3  | 465.4  |
| 177.5° | 471.4 | 473.7 | 471.4 | 471.3  | 469.0  |
| 180°   | 471.4 | 471.4 | 471.4 | 471.4  | 471.4  |



TEST NUMBER: P622021

CATALOG NUMBER: VLT-WB-M-075U-050D-930-UNV-STD-W-4

**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 0.00             | 0.00 | 0.33 | 0.97 | 2.35 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.30 | 0.77 | 1.34 | 2.74 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.42 | 0.94 | 1.46 | 2.87 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.05             | 0.56 | 1.13 | 1.60 | 3.02 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.13             | 0.61 | 1.21 | 1.67 | 3.08 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.20             | 0.65 | 1.28 | 1.70 | 3.13 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H              | 2H   | 0.00             | 0.00 | 0.05 | 0.57 | 1.97 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.52 | 0.97 | 2.38 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.03 | 0.70 | 1.09 | 2.53 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.20 | 0.93 | 1.28 | 2.72 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.30 | 1.05 | 1.37 | 2.81 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.07             | 0.36 | 1.17 | 1.45 | 2.90 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H              | 4H   | 0.00             | 0.00 | 0.53 | 0.85 | 2.30 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.78 | 1.06 | 2.51 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.05 | 0.93 | 1.15 | 2.61 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.15 | 1.06 | 1.24 | 2.75 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H             | 4H   | 0.00             | 0.00 | 0.47 | 0.76 | 2.21 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.73 | 0.95 | 2.42 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.86 | 1.05 | 2.55 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |