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: PORTFOLIO

Report Number: P1317214

Luminaire Tested: LDSQA3D05R409827DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**COOPER** Lighting Solutions

### Test Information

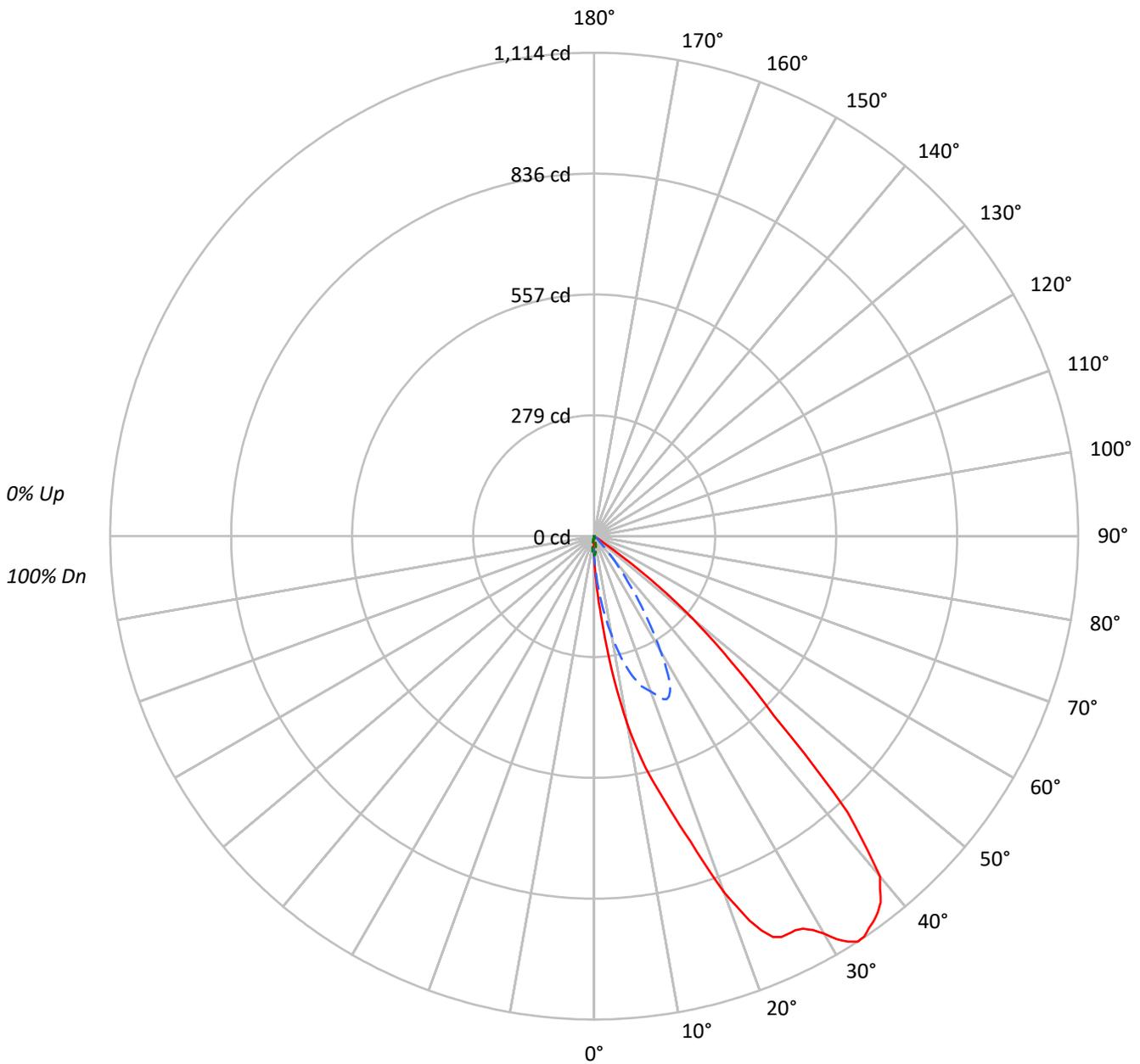| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1317214 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/29/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | PORTFOLIO |
| Catalog Number: | LDSQA3D05R409827DE010 3LSQCA30R 1MB |
| Description: | 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM |
| Light Source: | - |
| Ballast/Driver: | - |

### Summary

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 374.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 51.9 lumens/watt |
| Spacing Criteria (0/90/45): | 2.56 / 0.36 / 1.23 |
| Luminous Opening: | Rectangular (W 0.25' x L: 0.25' x H: 0') |
| CIE Type: | Direct |

| | |
|---|---|
| Input Watts (W): | 7.2 |
| 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: | 24 FT |

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## Luminous Intensity Polar Plot



*0% Up*

*100% Dn*

| ——— 0°-180° | – – – 45°-225° | ------- 90°-270° |

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## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 83 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 81 | 77 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 59 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 |
| 8 | 70 | 59 | 51 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 54 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 45 | 42 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|---|---|---|---|---|---|
| 0° | 7526 | 7526 | 7526 | 7526 | 7526 |
| 5° | 31983 | 21800 | 6604 | 1193 | 588 |
| 10° | 76860 | 40537 | 4092 | 122 | 0 |
| 15° | 113112 | 58892 | 1712 | 0 | 0 |
| 20° | 159890 | 69810 | 623 | 0 | 0 |
| 25° | 193675 | 77493 | 0 | 0 | 0 |
| 30° | 210280 | 60614 | 0 | 0 | 0 |
| 35° | 231879 | 35489 | 0 | 0 | 0 |
| 40° | 230149 | 14411 | 0 | 0 | 0 |
| 45° | 142531 | 4189 | 0 | 0 | 0 |
| 50° | 79361 | 80 | 0 | 0 | 0 |
| 55° | 7747 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 103 | 0 | 0 |
| 65° | 0 | 0 | 122 | 0 | 0 |
| 70° | 0 | 151 | 352 | 0 | 0 |
| 75° | 0 | 200 | 466 | 0 | 0 |
| 80° | 0 | 298 | 694 | 0 | 0 |
| 85° | 0 | 593 | 1383 | 0 | 0 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
Vertical Angle: 45°
Luminance: 143189 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 8.2 | 2.2 |
| 10°-20° | 48.2 | 12.9 |
| 20°-30° | 110.0 | 29.4 |
| 30°-40° | 129.9 | 34.7 |
| 40°-50° | 69.4 | 18.6 |
| 50°-60° | 7.5 | 2.0 |
| 60°-70° | 0.1 | 0.0 |
| 70°-80° | 0.3 | 0.1 |
| 80°-90° | 0.2 | 0.1 |
| 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°-30° | 166.4 | 44.5 |
| 0°-40° | 296.4 | 79.3 |
| 0°-60° | 373.3 | 99.8 |
| 0°-90° | 374.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 374.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 45° | 90° | 135° | 180° | Flux |
|---|---|---|---|---|---|---|
| 0° | 44 | 44 | 44 | 44 | 44 | |
| 5° | 185 | 126 | 38 | 7 | 3 | 26 |
| 15° | 634 | 330 | 10 | 0 | 0 | 188 |
| 25° | 1019 | 408 | 0 | 0 | 0 | 463 |
| 35° | 1103 | 169 | 0 | 0 | 0 | 681 |
| 45° | 585 | 17 | 0 | 0 | 0 | 483 |
| 55° | 26 | 0 | 0 | 0 | 0 | 72 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 1 | 0 | 0 | 0 |
| 85° | 0 | 0 | 1 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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## CANDELA DISTRIBUTION (FULL):

|  | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 |
| 2.5° | 102.0 | 99.9 | 101.3 | 98.5 | 98.5 | 92.3 | 92.7 | 87.5 | 79.9 | 61.0 | 43.4 |
| 5° | 185.0 | 193.2 | 186.7 | 178.1 | 173.2 | 167.0 | 158.8 | 150.2 | 126.1 | 76.1 | 38.2 |
| 7.5° | 309.6 | 309.0 | 297.9 | 288.6 | 278.0 | 261.4 | 245.9 | 224.9 | 179.4 | 87.1 | 31.7 |
| 10° | 439.5 | 437.1 | 424.7 | 416.8 | 396.4 | 372.7 | 341.0 | 307.2 | 231.8 | 90.9 | 23.4 |
| 12.5° | 547.6 | 544.5 | 534.2 | 520.8 | 498.4 | 468.4 | 434.3 | 389.9 | 286.9 | 86.8 | 15.2 |
| 15° | 634.4 | 633.8 | 623.8 | 605.5 | 582.1 | 552.8 | 514.2 | 460.9 | 330.3 | 76.1 | 9.6 |
| 17.5° | 737.4 | 741.6 | 723.7 | 704.0 | 670.3 | 629.3 | 582.1 | 521.1 | 362.3 | 63.0 | 6.2 |
| 20° | 872.4 | 866.6 | 850.1 | 821.5 | 789.1 | 739.8 | 673.0 | 585.9 | 380.9 | 48.9 | 3.4 |
| 21° | 913.8 | 911.4 | 894.1 | 867.6 | 831.8 | 781.9 | 713.0 | 618.9 | 389.6 | 43.7 | 2.8 |
| 22° | 955.8 | 951.7 | 938.2 | 912.4 | 878.6 | 822.2 | 746.4 | 653.0 | 400.6 | 38.2 | 1.7 |
| 23° | 987.1 | 985.4 | 975.1 | 949.6 | 914.8 | 860.0 | 782.6 | 684.7 | 408.2 | 33.1 | 1.0 |
| 24° | 1011.3 | 1009.2 | 998.9 | 979.6 | 949.6 | 892.4 | 819.1 | 718.8 | 411.3 | 28.6 | 0.3 |
| 25° | 1019.2 | 1020.2 | 1014.0 | 998.9 | 973.7 | 916.5 | 846.3 | 745.7 | 407.8 | 24.5 | 0.0 |
| 26° | 1019.5 | 1022.6 | 1018.1 | 1009.5 | 988.9 | 935.8 | 871.8 | 761.5 | 398.9 | 20.7 | 0.0 |
| 27° | 1019.5 | 1022.6 | 1018.1 | 1011.6 | 991.3 | 946.8 | 885.5 | 763.3 | 385.1 | 17.6 | 0.0 |
| 28° | 1024.3 | 1026.1 | 1020.2 | 1012.3 | 990.2 | 950.3 | 889.3 | 752.9 | 363.0 | 15.2 | 0.0 |
| 29° | 1037.8 | 1036.1 | 1026.4 | 1015.7 | 989.2 | 950.3 | 878.0 | 733.3 | 335.5 | 12.7 | 0.0 |
| 30° | 1057.4 | 1057.4 | 1042.3 | 1025.4 | 994.0 | 949.9 | 859.7 | 697.8 | 304.8 | 10.3 | 0.0 |
| 31° | 1083.9 | 1081.5 | 1066.4 | 1041.2 | 1004.4 | 949.9 | 832.8 | 658.6 | 276.6 | 9.0 | 0.0 |
| 32° | 1101.8 | 1100.5 | 1086.0 | 1056.4 | 1021.2 | 949.9 | 803.9 | 615.2 | 245.9 | 7.2 | 0.0 |
| 33° | 1114.2 | 1111.5 | 1095.0 | 1064.3 | 1031.6 | 945.1 | 771.5 | 568.7 | 218.4 | 5.9 | 0.0 |
| 34° | 1112.5 | 1111.8 | 1094.6 | 1062.9 | 1029.5 | 925.1 | 734.0 | 517.0 | 192.9 | 4.8 | 0.0 |
| 35° | 1102.9 | 1102.9 | 1081.9 | 1049.1 | 1014.7 | 895.9 | 696.8 | 472.9 | 168.8 | 3.4 | 0.0 |
| 36° | 1095.6 | 1092.9 | 1069.1 | 1032.6 | 989.9 | 849.7 | 641.7 | 428.5 | 142.9 | 2.8 | 0.0 |
| 37° | 1085.0 | 1079.8 | 1053.3 | 1014.0 | 954.8 | 799.8 | 583.8 | 388.9 | 120.9 | 1.7 | 0.0 |
| 38° | 1071.2 | 1063.3 | 1030.9 | 992.3 | 916.2 | 742.3 | 524.9 | 344.4 | 100.6 | 1.0 | 0.0 |
| 39° | 1046.0 | 1039.5 | 1006.1 | 964.4 | 870.0 | 681.6 | 467.7 | 302.8 | 81.3 | 0.3 | 0.0 |
| 40° | 1023.7 | 1012.3 | 974.4 | 926.5 | 816.0 | 613.1 | 410.9 | 261.8 | 64.1 | 0.0 | 0.0 |
| 42.5° | 863.1 | 851.1 | 842.5 | 795.0 | 649.9 | 440.2 | 286.9 | 167.7 | 33.4 | 0.0 | 0.0 |
| 45° | 585.2 | 587.9 | 561.1 | 529.0 | 428.8 | 286.9 | 179.4 | 93.3 | 17.2 | 0.0 | 0.0 |
| 47.5° | 426.8 | 419.5 | 383.0 | 322.4 | 251.4 | 167.7 | 93.7 | 45.1 | 6.9 | 0.0 | 0.0 |
| 50° | 296.2 | 282.4 | 249.4 | 203.9 | 136.7 | 79.9 | 41.3 | 21.0 | 0.3 | 0.0 | 0.0 |
| 52.5° | 160.9 | 151.2 | 128.1 | 93.0 | 56.8 | 30.7 | 16.5 | 8.6 | 0.0 | 0.0 | 0.0 |
| 55° | 25.8 | 17.9 | 18.6 | 15.8 | 12.4 | 9.0 | 5.2 | 1.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 0.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 0.7 |

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Scaled Data Report

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**CANDELA DISTRIBUTION (continued):**

|  | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 0.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 0.7 |
| 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):**

|        | 112.5° | 135° | 157.5° | 180° |
|--------|--------|------|--------|------|
| 0°     | 43.7   | 43.7 | 43.7   | 43.7 |
| 2.5°   | 29.3   | 20.0 | 15.2   | 13.1 |
| 5°     | 16.9   | 6.9  | 3.8    | 3.4  |
| 7.5°   | 8.3    | 2.4  | 1.4    | 1.4  |
| 10°    | 3.4    | 0.7  | 0.0    | 0.0  |
| 12.5°  | 1.0    | 0.0  | 0.0    | 0.0  |
| 15°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 17.5°  | 0.0    | 0.0  | 0.0    | 0.0  |
| 20°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 21°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 22°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 23°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 24°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 25°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 26°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°    | *0.0*  | *0.0*| *0.0*  | *0.0*|
| 34°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5°  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 47.5°  | 0.0    | 0.0  | 0.0    | 0.0  |
| 50°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 52.5°  | 0.0    | 0.0  | 0.0    | 0.0  |
| 55°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 57.5°  | 0.0    | 0.0  | 0.0    | 0.0  |
| 60°    | 0.0    | 0.0  | 0.0    | 0.0  |
| 62.5°  | 0.0    | 0.0  | 0.0    | 0.0  |
| 65°    | 0.3    | 0.0  | 0.0    | 0.0  |
| 67.5°  | 0.3    | 0.0  | 0.0    | 0.0  |
| 70°    | 0.3    | 0.0  | 0.0    | 0.0  |
| 72.5°  | 0.3    | 0.0  | 0.0    | 0.0  |
| 75°    | 0.3    | 0.0  | 0.0    | 0.0  |
| 77.5°  | 0.3    | 0.0  | 0.0    | 0.0  |
| 80°    | 0.3    | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|         | 112.5° | 135° | 157.5° | 180° |
|---------|--------|------|--------|------|
| 82.5°   | 0.3    | 0.0  | 0.0    | 0.0  |
| 85°     | 0.3    | 0.0  | 0.0    | 0.0  |
| 87.5°   | 0.3    | 0.0  | 0.0    | 0.0  |
| 90°     | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)