

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: PORTFOLIO

Report Number: P249766

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12020.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

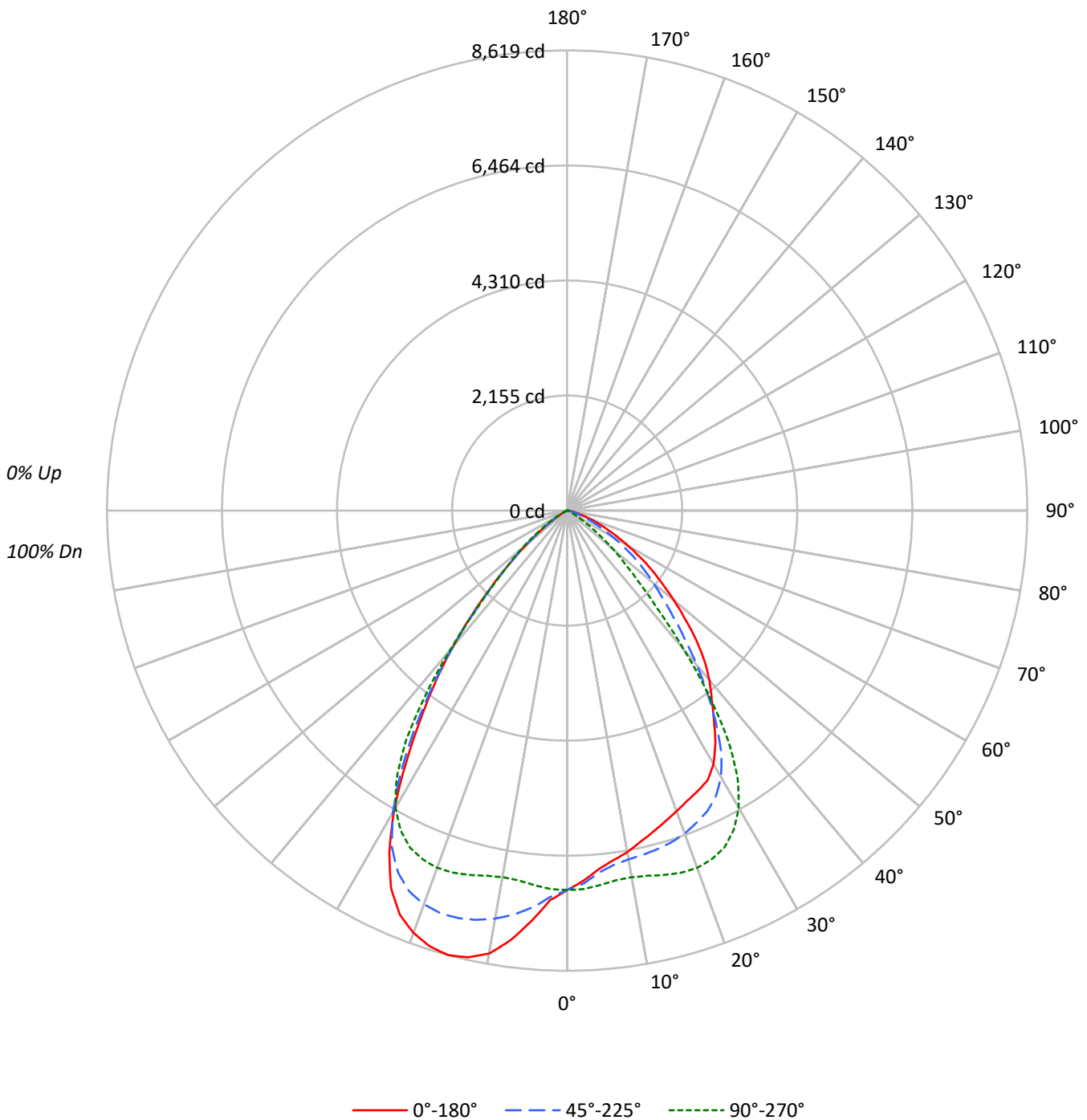
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249766

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P249766

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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 | 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 | | | | | 100 | | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 83 | 82 | | | | | 82 | | | |
| 3 | 98 | 90 | 84 | 80 | 96 | 89 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | | | 73 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 81 | 75 | 70 | 79 | 74 | 70 | 77 | 72 | 69 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 63 | 73 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 60 | | | | | 60 | | | |
| 6 | 80 | 70 | 63 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 54 | | | | | 54 | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 9 | 67 | 55 | 48 | 44 | 66 | 55 | 48 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 42 | | | | | 42 | | | |
| 10 | 63 | 52 | 45 | 40 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 49 | 43 | 40 | 38 | | | | | 38 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 219169 | 219169 | 219169 |
| 5° | 208801 | 217948 | 238925 |
| 10° | 203415 | 218285 | 263732 |
| 15° | 198801 | 225521 | 275141 |
| 20° | 196613 | 233668 | 276174 |
| 25° | 197074 | 236968 | 265442 |
| 30° | 195246 | 228834 | 230842 |
| 35° | 180414 | 198039 | 180662 |
| 40° | 166716 | 137302 | 133965 |
| 45° | 148454 | 82849 | 85596 |
| 50° | 124912 | 53375 | 48438 |
| 55° | 103921 | 29278 | 22144 |
| 60° | 81112 | 12698 | 6963 |
| 65° | 59860 | 6304 | 3393 |
| 70° | 41627 | 3895 | 1488 |
| 75° | 25330 | 798 | 0 |
| 80° | 18273 | 1190 | 0 |
| 85° | 11746 | 1168 | 0 |



TEST NUMBER: P249766

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 683.3 | 5.7 |
| 10°-20° | 2044.9 | 17.0 |
| 20°-30° | 3131.6 | 26.1 |
| 30°-40° | 3070.0 | 25.5 |
| 40°-50° | 1848.8 | 15.4 |
| 50°-60° | 850.9 | 7.1 |
| 60°-70° | 298.9 | 2.5 |
| 70°-80° | 78.2 | 0.7 |
| 80°-90° | 13.3 | 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° | 5859.8 | 48.8 |
| 0°-40° | 8929.9 | 74.3 |
| 0°-60° | 11629.6 | 96.8 |
| 0°-90° | 12020.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12020.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 7108 | 7108 | 7108 | 7108 | 7108 | |
| 5° | 6746 | 6809 | 7041 | 7463 | 7719 | 637 |
| 15° | 6227 | 6563 | 7064 | 7901 | 8619 | 1759 |
| 25° | 5792 | 6211 | 6965 | 7489 | 7802 | 2668 |
| 35° | 4793 | 4859 | 5261 | 4959 | 4799 | 3002 |
| 45° | 3404 | 2803 | 1900 | 1913 | 1963 | 2610 |
| 55° | 1933 | 1531 | 545 | 428 | 412 | 1725 |
| 65° | 820 | 568 | 86 | 43 | 46 | 836 |
| 75° | 213 | 123 | 7 | 0 | 0 | 258 |
| 85° | 33 | 16 | 3 | 0 | 0 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249766

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 |
| 2.5° | 6941.4 | 6948.1 | 6948.1 | 6948.1 | 6961.3 | 6964.7 | 6961.3 | 6964.7 | 6971.3 | 6994.5 | 7004.5 |
| 5° | 6745.5 | 6735.5 | 6742.2 | 6738.8 | 6755.4 | 6765.4 | 6758.7 | 6768.7 | 6791.9 | 6808.6 | 6825.2 |
| 7.5° | 6606.0 | 6606.0 | 6606.0 | 6612.6 | 6622.6 | 6642.5 | 6639.2 | 6645.8 | 6669.0 | 6692.3 | 6715.5 |
| 10° | 6496.4 | 6493.1 | 6493.1 | 6509.6 | 6522.9 | 6546.1 | 6552.8 | 6572.8 | 6602.6 | 6632.5 | 6659.1 |
| 12.5° | 6353.5 | 6356.9 | 6373.5 | 6390.2 | 6420.0 | 6456.5 | 6476.4 | 6503.1 | 6549.6 | 6599.3 | 6629.3 |
| 15° | 6227.3 | 6230.6 | 6244.0 | 6277.1 | 6313.7 | 6356.9 | 6400.0 | 6443.2 | 6499.7 | 6562.8 | 6616.0 |
| 17.5° | 6104.4 | 6107.7 | 6117.7 | 6154.3 | 6200.8 | 6257.3 | 6307.0 | 6363.5 | 6436.6 | 6509.6 | 6576.1 |
| 20° | 5991.5 | 5988.2 | 6004.8 | 6038.0 | 6097.9 | 6150.9 | 6200.8 | 6267.3 | 6347.0 | 6436.6 | 6512.9 |
| 22.5° | 5881.9 | 5881.9 | 5898.6 | 5931.8 | 5985.0 | 6038.0 | 6091.2 | 6160.9 | 6240.6 | 6327.0 | 6416.7 |
| 25° | 5792.2 | 5788.9 | 5812.2 | 5828.8 | 5868.6 | 5921.8 | 5978.3 | 6034.7 | 6114.4 | 6210.8 | 6297.1 |
| 27.5° | 5696.0 | 5692.7 | 5696.0 | 5715.9 | 5752.4 | 5792.2 | 5835.4 | 5885.3 | 5951.7 | 6031.4 | 6114.4 |
| 30° | 5483.4 | 5486.7 | 5486.7 | 5503.4 | 5523.3 | 5566.4 | 5589.6 | 5639.5 | 5699.2 | 5765.7 | 5838.8 |
| 32.5° | 5167.9 | 5171.2 | 5171.2 | 5177.9 | 5194.4 | 5214.4 | 5234.3 | 5270.8 | 5317.3 | 5373.8 | 5440.2 |
| 35° | 4792.6 | 4792.6 | 4789.2 | 4792.6 | 4802.6 | 4802.6 | 4819.1 | 4802.6 | 4825.8 | 4859.1 | 4908.8 |
| 37.5° | 4447.2 | 4440.5 | 4433.9 | 4427.2 | 4417.2 | 4400.7 | 4377.4 | 4337.5 | 4327.5 | 4314.3 | 4317.6 |
| 40° | 4141.6 | 4138.3 | 4118.4 | 4101.7 | 4068.5 | 4028.7 | 3972.2 | 3902.5 | 3846.1 | 3779.6 | 3723.2 |
| 42.5° | 3802.9 | 3799.5 | 3782.9 | 3753.0 | 3716.5 | 3656.7 | 3567.1 | 3474.1 | 3361.2 | 3261.5 | 3158.6 |
| 45° | 3404.2 | 3414.2 | 3391.0 | 3357.8 | 3314.6 | 3258.1 | 3158.6 | 3045.5 | 2932.6 | 2803.1 | 2673.5 |
| 47.5° | 2989.1 | 2985.8 | 2969.2 | 2949.3 | 2912.8 | 2856.3 | 2789.9 | 2667.0 | 2547.4 | 2427.9 | 2295.0 |
| 50° | 2603.8 | 2590.6 | 2583.9 | 2564.0 | 2540.8 | 2494.3 | 2424.5 | 2324.8 | 2218.6 | 2105.7 | 1982.8 |
| 52.5° | 2238.6 | 2238.6 | 2221.9 | 2208.6 | 2188.7 | 2152.2 | 2092.4 | 2012.7 | 1923.0 | 1816.7 | 1687.2 |
| 55° | 1933.0 | 1926.3 | 1909.8 | 1893.1 | 1873.1 | 1849.9 | 1796.9 | 1730.4 | 1634.0 | 1531.1 | 1418.2 |
| 57.5° | 1607.5 | 1604.1 | 1597.5 | 1577.6 | 1567.6 | 1544.4 | 1484.6 | 1418.2 | 1335.2 | 1245.5 | 1152.4 |
| 60° | 1315.2 | 1302.0 | 1288.6 | 1275.3 | 1258.8 | 1235.5 | 1195.6 | 1139.2 | 1069.4 | 989.7 | 896.8 |
| 62.5° | 1052.9 | 1072.7 | 1032.9 | 1032.9 | 999.7 | 979.8 | 943.3 | 910.0 | 836.9 | 763.9 | 684.2 |
| 65° | 820.4 | 820.4 | 803.7 | 790.4 | 770.5 | 747.2 | 710.7 | 677.5 | 624.3 | 567.9 | 511.4 |
| 67.5° | 627.8 | 624.3 | 607.8 | 594.5 | 577.9 | 564.6 | 538.1 | 498.2 | 458.4 | 411.9 | 365.3 |
| 70° | 461.7 | 458.4 | 455.0 | 431.7 | 418.5 | 401.9 | 382.0 | 355.4 | 325.5 | 292.3 | 249.1 |
| 72.5° | 332.1 | 332.1 | 322.2 | 312.2 | 299.0 | 285.6 | 265.8 | 249.1 | 222.6 | 199.3 | 169.4 |
| 75° | 212.6 | 209.3 | 209.3 | 192.6 | 192.6 | 172.7 | 159.4 | 149.4 | 136.2 | 122.9 | 96.4 |
| 77.5° | 152.8 | 149.4 | 146.1 | 139.4 | 132.9 | 126.2 | 116.2 | 102.9 | 93.0 | 79.7 | 69.7 |
| 80° | 102.9 | 96.4 | 93.0 | 93.0 | 83.0 | 79.7 | 83.0 | 63.2 | 59.7 | 49.8 | 43.2 |
| 82.5° | 63.2 | 63.2 | 59.7 | 59.7 | 56.5 | 53.2 | 43.2 | 43.2 | 39.9 | 36.5 | 29.9 |
| 85° | 33.2 | 43.2 | 29.9 | 33.2 | 29.9 | 33.2 | 29.9 | 23.2 | 20.0 | 16.5 | 16.5 |
| 87.5° | 20.0 | 13.3 | 13.3 | 20.0 | 16.5 | 13.3 | 13.3 | 13.3 | 10.0 | 6.7 | 6.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P249766

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 |
| 2.5° | 6998.0 | 7021.2 | 7017.8 | 7047.7 | 7057.7 | 7080.9 | 7080.9 | 7097.5 | 7107.5 | 7130.7 | 7150.7 |
| 5° | 6831.9 | 6868.4 | 6878.3 | 6914.8 | 6944.8 | 6981.3 | 7004.5 | 7041.0 | 7074.2 | 7124.1 | 7170.6 |
| 7.5° | 6728.9 | 6758.7 | 6778.7 | 6821.9 | 6855.1 | 6894.9 | 6934.8 | 6984.6 | 7031.0 | 7090.9 | 7157.3 |
| 10° | 6679.0 | 6718.9 | 6748.7 | 6791.9 | 6831.9 | 6875.1 | 6914.8 | 6971.3 | 7024.5 | 7100.9 | 7173.9 |
| 12.5° | 6665.8 | 6712.2 | 6748.7 | 6808.6 | 6848.4 | 6894.9 | 6941.4 | 7004.5 | 7061.0 | 7140.7 | 7223.8 |
| 15° | 6665.8 | 6728.9 | 6778.7 | 6845.1 | 6891.6 | 6951.3 | 7001.2 | 7064.3 | 7127.4 | 7210.4 | 7290.1 |
| 17.5° | 6652.5 | 6728.9 | 6791.9 | 6868.4 | 6928.1 | 6988.0 | 7051.0 | 7110.9 | 7177.2 | 7257.0 | 7346.5 |
| 20° | 6599.3 | 6695.7 | 6772.0 | 6861.7 | 6924.8 | 6991.3 | 7054.4 | 7120.7 | 7190.6 | 7273.5 | 7350.0 |
| 22.5° | 6506.4 | 6619.3 | 6705.7 | 6801.9 | 6875.1 | 6941.4 | 7004.5 | 7071.0 | 7147.4 | 7227.1 | 7306.8 |
| 25° | 6383.5 | 6489.7 | 6582.8 | 6682.3 | 6755.4 | 6828.4 | 6888.3 | 6964.7 | 7034.5 | 7110.9 | 7173.9 |
| 27.5° | 6197.4 | 6310.3 | 6400.0 | 6503.1 | 6569.4 | 6639.2 | 6689.0 | 6752.2 | 6818.6 | 6881.6 | 6931.5 |
| 30° | 5918.5 | 6021.5 | 6114.4 | 6207.4 | 6273.8 | 6323.7 | 6376.8 | 6426.7 | 6469.9 | 6512.9 | 6556.1 |
| 32.5° | 5509.9 | 5603.0 | 5692.7 | 5778.9 | 5832.1 | 5875.3 | 5915.1 | 5945.0 | 5968.3 | 5991.5 | 5994.8 |
| 35° | 4948.7 | 5025.0 | 5081.5 | 5157.9 | 5207.8 | 5247.6 | 5247.6 | 5260.8 | 5257.6 | 5247.6 | 5237.6 |
| 37.5° | 4321.0 | 4350.8 | 4374.0 | 4404.0 | 4407.2 | 4407.2 | 4387.4 | 4370.7 | 4344.2 | 4337.5 | 4317.6 |
| 40° | 3666.7 | 3626.8 | 3596.9 | 3557.1 | 3533.8 | 3483.9 | 3440.9 | 3410.9 | 3367.7 | 3361.2 | 3354.5 |
| 42.5° | 3045.5 | 2952.6 | 2869.6 | 2799.9 | 2720.2 | 2650.3 | 2587.3 | 2540.8 | 2507.6 | 2504.2 | 2507.6 |
| 45° | 2540.8 | 2434.5 | 2311.6 | 2215.3 | 2125.6 | 2039.2 | 1956.3 | 1899.8 | 1869.9 | 1863.2 | 1869.9 |
| 47.5° | 2158.9 | 2036.0 | 1916.3 | 1806.7 | 1710.5 | 1614.1 | 1531.1 | 1454.7 | 1418.2 | 1408.2 | 1404.9 |
| 50° | 1856.6 | 1730.4 | 1604.1 | 1491.2 | 1385.0 | 1288.6 | 1185.6 | 1112.6 | 1066.2 | 1049.5 | 1036.2 |
| 52.5° | 1561.0 | 1448.1 | 1318.5 | 1202.3 | 1096.0 | 983.0 | 876.8 | 793.7 | 747.2 | 727.4 | 714.0 |
| 55° | 1302.0 | 1189.1 | 1069.4 | 956.5 | 843.6 | 730.7 | 624.3 | 544.6 | 494.9 | 471.6 | 455.0 |
| 57.5° | 1039.5 | 933.3 | 830.3 | 717.4 | 624.3 | 514.8 | 408.5 | 338.8 | 295.6 | 269.0 | 255.8 |
| 60° | 803.7 | 720.7 | 631.0 | 538.1 | 448.4 | 358.7 | 272.3 | 205.9 | 172.7 | 152.8 | 136.2 |
| 62.5° | 607.8 | 538.1 | 478.2 | 398.5 | 328.8 | 252.4 | 186.1 | 132.9 | 102.9 | 86.4 | 79.7 |
| 65° | 438.4 | 385.2 | 332.1 | 282.3 | 232.5 | 176.1 | 126.2 | 86.4 | 59.7 | 49.8 | 46.5 |
| 67.5° | 312.2 | 269.0 | 229.1 | 195.9 | 159.4 | 126.2 | 89.7 | 59.7 | 46.5 | 39.9 | 36.5 |
| 70° | 219.1 | 186.1 | 159.4 | 129.6 | 106.2 | 83.0 | 69.7 | 43.2 | 26.5 | 29.9 | 23.2 |
| 72.5° | 146.1 | 122.9 | 109.6 | 89.7 | 73.0 | 59.7 | 43.2 | 29.9 | 29.9 | 23.2 | 20.0 |
| 75° | 79.7 | 73.0 | 56.5 | 43.2 | 36.5 | 33.2 | 13.3 | 6.7 | 3.3 | 10.0 | 3.3 |
| 77.5° | 56.5 | 49.8 | 43.2 | 36.5 | 29.9 | 23.2 | 13.3 | 13.3 | 10.0 | 13.3 | 6.7 |
| 80° | 36.5 | 29.9 | 26.5 | 26.5 | 16.5 | 10.0 | 6.7 | 6.7 | 10.0 | 3.3 | 3.3 |
| 82.5° | 23.2 | 20.0 | 16.5 | 16.5 | 16.5 | 10.0 | 10.0 | 10.0 | 10.0 | 6.7 | 6.7 |
| 85° | 13.3 | 10.0 | 6.7 | 6.7 | 3.3 | 6.7 | 0.0 | 3.3 | 3.3 | 0.0 | 0.0 |
| 87.5° | 6.7 | 3.3 | 3.3 | 3.3 | 3.3 | 0.0 | 0.0 | 3.3 | 0.0 | 3.3 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P249766

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 | 7107.5 |
| 2.5° | 7163.9 | 7177.2 | 7193.8 | 7207.1 | 7237.0 | 7243.6 | 7257.0 | 7270.3 | 7280.2 | 7290.1 | 7293.5 |
| 5° | 7210.4 | 7260.3 | 7306.8 | 7356.5 | 7419.7 | 7462.9 | 7512.6 | 7555.8 | 7599.0 | 7635.5 | 7662.1 |
| 7.5° | 7223.8 | 7300.1 | 7369.9 | 7456.2 | 7549.1 | 7629.0 | 7712.0 | 7794.9 | 7881.3 | 7947.8 | 8004.2 |
| 10° | 7250.3 | 7343.3 | 7432.9 | 7535.9 | 7655.5 | 7761.7 | 7864.7 | 7974.3 | 8083.9 | 8176.9 | 8260.0 |
| 12.5° | 7296.8 | 7399.7 | 7496.1 | 7609.0 | 7731.9 | 7851.4 | 7964.3 | 8087.2 | 8203.6 | 8306.5 | 8399.5 |
| 15° | 7373.2 | 7469.4 | 7562.5 | 7668.8 | 7791.7 | 7901.3 | 8014.2 | 8133.7 | 8250.0 | 8356.3 | 8442.7 |
| 17.5° | 7423.0 | 7512.6 | 7605.6 | 7702.0 | 7804.9 | 7904.6 | 8010.8 | 8117.2 | 8223.4 | 8319.8 | 8399.5 |
| 20° | 7423.0 | 7509.4 | 7579.1 | 7665.5 | 7761.7 | 7848.1 | 7934.5 | 8027.5 | 8120.4 | 8200.1 | 8276.6 |
| 22.5° | 7363.2 | 7446.2 | 7499.4 | 7565.8 | 7648.8 | 7721.9 | 7768.4 | 7871.4 | 7941.1 | 8010.8 | 8067.3 |
| 25° | 7223.8 | 7283.5 | 7326.7 | 7373.2 | 7439.6 | 7489.4 | 7529.3 | 7589.1 | 7658.8 | 7685.4 | 7725.2 |
| 27.5° | 6971.3 | 7014.5 | 7037.7 | 7047.7 | 7080.9 | 7107.5 | 7114.2 | 7140.7 | 7170.6 | 7177.2 | 7193.8 |
| 30° | 6572.8 | 6576.1 | 6566.1 | 6562.8 | 6546.1 | 6526.3 | 6522.9 | 6519.6 | 6506.4 | 6493.1 | 6496.4 |
| 32.5° | 5971.6 | 5955.0 | 5915.1 | 5872.0 | 5828.8 | 5782.4 | 5755.7 | 5722.5 | 5702.5 | 5682.7 | 5659.5 |
| 35° | 5194.4 | 5154.6 | 5098.2 | 5045.0 | 4995.2 | 4958.6 | 4898.8 | 4878.9 | 4859.1 | 4832.4 | 4825.8 |
| 37.5° | 4281.1 | 4257.8 | 4204.6 | 4164.9 | 4138.3 | 4121.7 | 4091.7 | 4071.9 | 4071.9 | 4061.9 | 4055.2 |
| 40° | 3337.8 | 3331.2 | 3311.3 | 3321.3 | 3308.0 | 3314.6 | 3311.3 | 3304.6 | 3321.3 | 3321.3 | 3328.0 |
| 42.5° | 2504.2 | 2507.6 | 2517.6 | 2524.1 | 2544.1 | 2547.4 | 2564.0 | 2564.0 | 2574.0 | 2583.9 | 2590.6 |
| 45° | 1863.2 | 1876.6 | 1876.6 | 1889.8 | 1909.8 | 1913.1 | 1919.6 | 1923.0 | 1929.6 | 1946.3 | 1952.8 |
| 47.5° | 1398.2 | 1401.5 | 1401.5 | 1404.9 | 1411.5 | 1418.2 | 1414.9 | 1418.2 | 1428.2 | 1421.5 | 1428.2 |
| 50° | 1032.9 | 1036.2 | 1026.2 | 1016.3 | 1026.2 | 1026.2 | 1023.0 | 1013.0 | 1023.0 | 1009.7 | 1016.3 |
| 52.5° | 704.2 | 700.8 | 690.8 | 694.2 | 687.5 | 684.2 | 684.2 | 677.5 | 677.5 | 677.5 | 664.3 |
| 55° | 445.1 | 445.1 | 438.4 | 438.4 | 435.1 | 428.4 | 425.2 | 421.7 | 418.5 | 415.2 | 415.2 |
| 57.5° | 249.1 | 252.4 | 242.5 | 239.1 | 242.5 | 239.1 | 232.5 | 232.5 | 232.5 | 222.6 | 229.1 |
| 60° | 136.2 | 132.9 | 129.6 | 126.2 | 122.9 | 126.2 | 126.2 | 119.6 | 119.6 | 119.6 | 122.9 |
| 62.5° | 73.0 | 73.0 | 69.7 | 69.7 | 66.4 | 66.4 | 73.0 | 63.2 | 66.4 | 63.2 | 66.4 |
| 65° | 39.9 | 49.8 | 36.5 | 36.5 | 46.5 | 43.2 | 39.9 | 39.9 | 43.2 | 36.5 | 39.9 |
| 67.5° | 43.2 | 29.9 | 26.5 | 29.9 | 26.5 | 26.5 | 26.5 | 33.2 | 29.9 | 23.2 | 29.9 |
| 70° | 20.0 | 23.2 | 23.2 | 16.5 | 26.5 | 13.3 | 23.2 | 13.3 | 20.0 | 16.5 | 20.0 |
| 72.5° | 20.0 | 20.0 | 20.0 | 13.3 | 20.0 | 13.3 | 16.5 | 16.5 | 13.3 | 13.3 | 20.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 6.7 | 6.7 | 3.3 | 3.3 | 3.3 | 3.3 | 6.7 | 6.7 | 6.7 | 0.0 | 3.3 |
| 80° | 6.7 | 6.7 | 0.0 | 3.3 | 0.0 | 0.0 | 3.3 | 0.0 | 3.3 | 0.0 | 6.7 |
| 82.5° | 3.3 | 6.7 | 3.3 | 3.3 | 6.7 | 6.7 | 6.7 | 3.3 | 3.3 | 3.3 | 3.3 |
| 85° | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.0 | 0.0 | 0.0 | 3.3 |
| 87.5° | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P249766

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 7107.5 | 7107.5 | 7107.5 | 7107.5 |
| 2.5° | 7296.8 | 7300.1 | 7306.8 | 7303.5 |
| 5° | 7682.0 | 7708.7 | 7721.9 | 7718.7 |
| 7.5° | 8044.0 | 8090.6 | 8117.2 | 8117.2 |
| 10° | 8323.0 | 8376.2 | 8416.0 | 8422.7 |
| 12.5° | 8472.5 | 8532.3 | 8585.5 | 8572.1 |
| 15° | 8515.7 | 8575.5 | 8628.6 | 8618.6 |
| 17.5° | 8465.9 | 8525.6 | 8565.6 | 8558.9 |
| 20° | 8329.7 | 8379.5 | 8419.4 | 8416.0 |
| 22.5° | 8117.2 | 8160.4 | 8193.6 | 8190.2 |
| 25° | 7758.4 | 7788.4 | 7814.9 | 7801.6 |
| 27.5° | 7207.1 | 7217.1 | 7233.6 | 7213.8 |
| 30° | 6473.1 | 6479.7 | 6486.4 | 6483.1 |
| 32.5° | 5649.5 | 5646.1 | 5639.5 | 5632.8 |
| 35° | 4815.9 | 4815.9 | 4819.1 | 4799.2 |
| 37.5° | 4058.5 | 4055.2 | 4065.2 | 4055.2 |
| 40° | 3334.5 | 3331.2 | 3344.5 | 3328.0 |
| 42.5° | 2600.5 | 2610.5 | 2613.8 | 2613.8 |
| 45° | 1956.3 | 1959.5 | 1962.8 | 1962.8 |
| 47.5° | 1428.2 | 1431.4 | 1448.1 | 1428.2 |
| 50° | 1009.7 | 1013.0 | 1016.3 | 1009.7 |
| 52.5° | 667.5 | 671.0 | 667.5 | 657.6 |
| 55° | 408.5 | 411.9 | 411.9 | 411.9 |
| 57.5° | 219.1 | 222.6 | 222.6 | 219.1 |
| 60° | 119.6 | 116.2 | 119.6 | 112.9 |
| 62.5° | 63.2 | 69.7 | 66.4 | 59.7 |
| 65° | 39.9 | 39.9 | 39.9 | 46.5 |
| 67.5° | 33.2 | 26.5 | 29.9 | 23.2 |
| 70° | 20.0 | 23.2 | 23.2 | 16.5 |
| 72.5° | 16.5 | 16.5 | 16.5 | 20.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 6.7 | 6.7 | 6.7 | 3.3 |
| 80° | 3.3 | 0.0 | 3.3 | 0.0 |
| 82.5° | 3.3 | 3.3 | 6.7 | 3.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)