

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: P249321

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12222.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

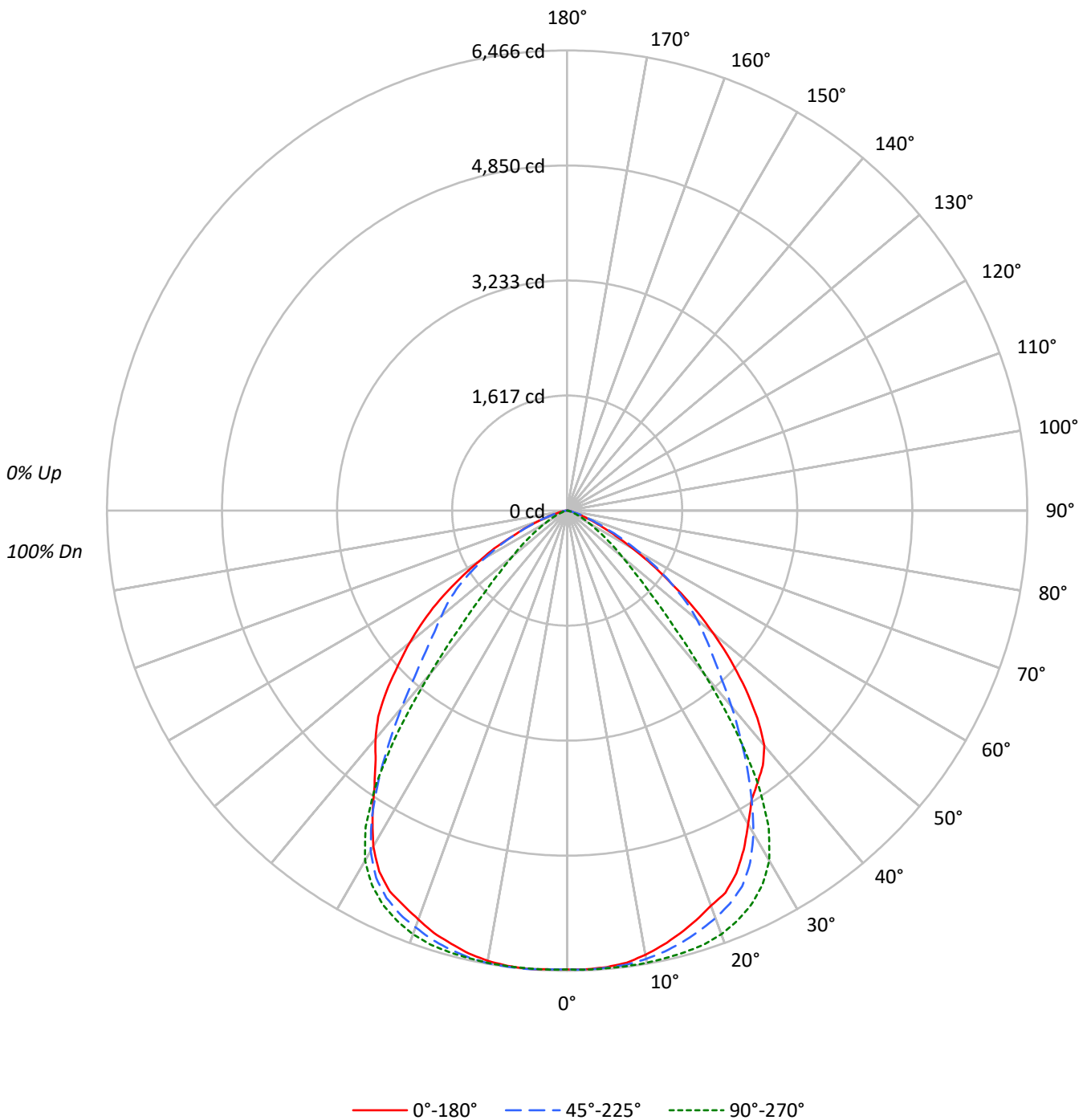
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249321

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P249321

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBDW0GPH

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 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 90 | | | | | 90 | | | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | | | 55 | | | |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 | | | | | 50 | | | |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 198851 | 198851 | 198851 |
| 5° | 199289 | 199824 | 200041 |
| 10° | 198449 | 202025 | 201158 |
| 15° | 196250 | 204981 | 201115 |
| 20° | 193893 | 207862 | 200593 |
| 25° | 191375 | 208102 | 200800 |
| 30° | 181053 | 202250 | 193992 |
| 35° | 175648 | 175776 | 177602 |
| 40° | 173470 | 120943 | 168596 |
| 45° | 154573 | 72605 | 156683 |
| 50° | 128524 | 48323 | 138488 |
| 55° | 96394 | 33311 | 117420 |
| 60° | 65324 | 22202 | 88593 |
| 65° | 39401 | 14396 | 60867 |
| 70° | 21846 | 7808 | 37443 |
| 75° | 9901 | 3300 | 19384 |
| 80° | 8595 | 3694 | 13514 |
| 85° | 9800 | 4883 | 13480 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 615.4 | 5.0 |
| 10°-20° | 1787.3 | 14.6 |
| 20°-30° | 2712.8 | 22.2 |
| 30°-40° | 2849.2 | 23.3 |
| 40°-50° | 2136.1 | 17.5 |
| 50°-60° | 1370.6 | 11.2 |
| 60°-70° | 586.3 | 4.8 |
| 70°-80° | 138.5 | 1.1 |
| 80°-90° | 25.8 | 0.2 |
| 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° | 5115.5 | 41.9 |
| 0°-40° | 7964.7 | 65.2 |
| 0°-60° | 11471.4 | 93.9 |
| 0°-90° | 12222.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12222.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 6449 | 6449 | 6449 | 6449 | 6449 | |
| 5° | 6438 | 6449 | 6456 | 6466 | 6462 | 612 |
| 15° | 6147 | 6276 | 6421 | 6379 | 6300 | 1734 |
| 25° | 5625 | 5822 | 6116 | 6006 | 5902 | 2570 |
| 35° | 4666 | 4406 | 4669 | 4614 | 4718 | 2928 |
| 45° | 3544 | 2897 | 1665 | 2814 | 3593 | 2714 |
| 55° | 1793 | 1793 | 620 | 1869 | 2184 | 1626 |
| 65° | 540 | 637 | 197 | 820 | 834 | 576 |
| 75° | 83 | 97 | 28 | 166 | 163 | 121 |
| 85° | 28 | 17 | 14 | 28 | 38 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249321

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 |
| 2.5° | 6452.0 | 6459.0 | 6455.5 | 6455.5 | 6452.0 | 6455.5 | 6455.5 | 6462.5 | 6462.5 | 6455.5 | 6452.0 |
| 5° | 6438.2 | 6445.1 | 6445.1 | 6438.2 | 6438.2 | 6455.5 | 6445.1 | 6452.0 | 6452.0 | 6448.6 | 6448.6 |
| 7.5° | 6407.1 | 6407.1 | 6420.9 | 6410.5 | 6410.5 | 6420.9 | 6417.4 | 6424.3 | 6431.3 | 6434.8 | 6434.8 |
| 10° | 6337.8 | 6344.7 | 6348.2 | 6348.2 | 6351.7 | 6362.0 | 6369.0 | 6382.8 | 6389.7 | 6396.6 | 6400.1 |
| 12.5° | 6251.3 | 6261.6 | 6265.1 | 6261.6 | 6272.1 | 6285.9 | 6303.2 | 6320.5 | 6330.9 | 6344.7 | 6355.1 |
| 15° | 6147.4 | 6147.4 | 6154.3 | 6164.8 | 6171.7 | 6192.4 | 6209.7 | 6230.5 | 6258.2 | 6275.5 | 6292.8 |
| 17.5° | 6033.2 | 6040.2 | 6050.5 | 6050.5 | 6064.4 | 6098.9 | 6109.4 | 6140.5 | 6171.7 | 6189.0 | 6223.6 |
| 20° | 5908.6 | 5915.5 | 5925.9 | 5932.9 | 5950.1 | 5977.8 | 5998.6 | 6026.3 | 6060.9 | 6092.1 | 6126.6 |
| 22.5° | 5811.7 | 5797.9 | 5804.7 | 5811.7 | 5829.0 | 5853.2 | 5877.5 | 5912.0 | 5946.7 | 5977.8 | 6012.5 |
| 25° | 5624.7 | 5628.2 | 5638.6 | 5645.5 | 5666.3 | 5687.1 | 5714.8 | 5756.3 | 5787.4 | 5822.1 | 5860.1 |
| 27.5° | 5372.1 | 5375.6 | 5392.8 | 5392.8 | 5410.1 | 5444.8 | 5462.0 | 5496.7 | 5538.3 | 5572.8 | 5617.9 |
| 30° | 5084.8 | 5091.7 | 5091.7 | 5105.6 | 5115.9 | 5133.3 | 5150.5 | 5185.2 | 5205.9 | 5237.1 | 5299.4 |
| 32.5° | 4821.8 | 4828.6 | 4825.1 | 4821.8 | 4811.3 | 4807.9 | 4804.4 | 4811.3 | 4818.3 | 4828.6 | 4852.8 |
| 35° | 4666.0 | 4648.6 | 4634.8 | 4610.6 | 4582.9 | 4548.3 | 4517.1 | 4475.6 | 4437.5 | 4406.3 | 4371.8 |
| 37.5° | 4517.1 | 4513.6 | 4492.9 | 4458.2 | 4402.9 | 4340.6 | 4267.9 | 4177.9 | 4087.9 | 3991.0 | 3897.6 |
| 40° | 4309.4 | 4299.0 | 4281.7 | 4233.3 | 4171.0 | 4094.8 | 3997.9 | 3887.1 | 3741.7 | 3592.9 | 3440.6 |
| 42.5° | 3956.3 | 3959.8 | 3939.1 | 3901.0 | 3842.2 | 3769.4 | 3669.1 | 3547.9 | 3392.2 | 3215.6 | 3018.3 |
| 45° | 3544.5 | 3544.5 | 3537.5 | 3506.4 | 3464.9 | 3406.0 | 3329.9 | 3229.5 | 3077.2 | 2897.2 | 2686.0 |
| 47.5° | 3115.2 | 3118.7 | 3108.3 | 3101.4 | 3084.1 | 3046.0 | 2990.7 | 2914.5 | 2807.2 | 2634.1 | 2422.9 |
| 50° | 2679.1 | 2679.1 | 2696.4 | 2693.0 | 2693.0 | 2679.1 | 2654.9 | 2609.9 | 2516.4 | 2378.0 | 2180.7 |
| 52.5° | 2243.0 | 2249.9 | 2260.3 | 2274.1 | 2291.4 | 2319.1 | 2291.4 | 2270.7 | 2211.8 | 2104.5 | 1934.9 |
| 55° | 1793.0 | 1799.9 | 1817.2 | 1841.4 | 1862.3 | 1890.0 | 1896.8 | 1896.8 | 1865.7 | 1793.0 | 1664.9 |
| 57.5° | 1408.8 | 1398.4 | 1412.3 | 1433.0 | 1460.7 | 1488.4 | 1509.2 | 1533.4 | 1529.9 | 1481.5 | 1377.6 |
| 60° | 1059.2 | 1062.7 | 1073.0 | 1093.8 | 1114.6 | 1138.8 | 1166.5 | 1187.3 | 1197.7 | 1173.4 | 1107.6 |
| 62.5° | 771.9 | 771.9 | 785.7 | 806.5 | 816.9 | 851.5 | 868.8 | 879.2 | 889.5 | 886.1 | 844.6 |
| 65° | 540.0 | 546.9 | 553.8 | 564.2 | 574.6 | 595.3 | 605.7 | 626.5 | 633.4 | 636.9 | 605.7 |
| 67.5° | 380.8 | 370.4 | 377.3 | 384.2 | 394.6 | 408.5 | 429.2 | 429.2 | 439.6 | 439.6 | 418.8 |
| 70° | 242.3 | 242.3 | 245.8 | 256.1 | 263.1 | 266.5 | 273.5 | 280.3 | 290.8 | 287.3 | 287.3 |
| 72.5° | 162.7 | 159.2 | 162.7 | 166.2 | 169.6 | 180.0 | 180.0 | 183.4 | 190.4 | 193.9 | 180.0 |
| 75° | 83.1 | 86.6 | 93.4 | 90.0 | 100.4 | 93.4 | 96.9 | 107.3 | 103.8 | 96.9 | 96.9 |
| 77.5° | 69.2 | 69.2 | 69.2 | 65.8 | 72.7 | 72.7 | 69.2 | 76.1 | 72.7 | 72.7 | 69.2 |
| 80° | 48.4 | 51.9 | 48.4 | 45.0 | 48.4 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 41.5 |
| 82.5° | 38.1 | 31.2 | 34.6 | 31.2 | 34.6 | 34.6 | 31.2 | 27.7 | 27.7 | 31.2 | 27.7 |
| 85° | 27.7 | 20.8 | 24.2 | 24.2 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 17.3 | 17.3 |
| 87.5° | 17.3 | 10.4 | 10.4 | 10.4 | 13.8 | 13.8 | 13.8 | 10.4 | 13.8 | 13.8 | 6.9 |
| 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: P249321

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 |
| 2.5° | 6459.0 | 6455.5 | 6462.5 | 6459.0 | 6459.0 | 6455.5 | 6459.0 | 6455.5 | 6462.5 | 6448.6 | 6452.0 |
| 5° | 6459.0 | 6452.0 | 6455.5 | 6459.0 | 6462.5 | 6455.5 | 6455.5 | 6455.5 | 6462.5 | 6455.5 | 6459.0 |
| 7.5° | 6445.1 | 6441.6 | 6452.0 | 6459.0 | 6455.5 | 6452.0 | 6459.0 | 6455.5 | 6462.5 | 6459.0 | 6465.8 |
| 10° | 6417.4 | 6420.9 | 6427.8 | 6438.2 | 6441.6 | 6445.1 | 6452.0 | 6452.0 | 6462.5 | 6448.6 | 6455.5 |
| 12.5° | 6375.9 | 6389.7 | 6407.1 | 6413.9 | 6427.8 | 6427.8 | 6434.8 | 6438.2 | 6445.1 | 6441.6 | 6452.0 |
| 15° | 6324.0 | 6341.3 | 6362.0 | 6379.4 | 6396.6 | 6407.1 | 6417.4 | 6420.9 | 6431.3 | 6420.9 | 6424.3 |
| 17.5° | 6261.6 | 6282.4 | 6313.6 | 6334.3 | 6362.0 | 6372.4 | 6386.2 | 6393.2 | 6403.6 | 6396.6 | 6400.1 |
| 20° | 6175.1 | 6199.4 | 6234.0 | 6265.1 | 6282.4 | 6306.6 | 6324.0 | 6334.3 | 6341.3 | 6334.3 | 6337.8 |
| 22.5° | 6054.0 | 6088.6 | 6133.6 | 6157.8 | 6192.4 | 6213.2 | 6216.7 | 6240.9 | 6258.2 | 6240.9 | 6247.8 |
| 25° | 5912.0 | 5946.7 | 5981.3 | 6033.2 | 6064.4 | 6088.6 | 6112.8 | 6116.3 | 6133.6 | 6130.1 | 6126.6 |
| 27.5° | 5676.7 | 5721.7 | 5780.5 | 5822.1 | 5863.6 | 5901.7 | 5929.4 | 5936.3 | 5953.6 | 5946.7 | 5950.1 |
| 30° | 5354.7 | 5403.3 | 5458.7 | 5524.4 | 5583.2 | 5621.3 | 5655.9 | 5680.1 | 5697.4 | 5687.1 | 5683.6 |
| 32.5° | 4897.9 | 4946.3 | 5005.2 | 5070.9 | 5140.2 | 5195.5 | 5237.1 | 5268.3 | 5289.0 | 5282.1 | 5264.8 |
| 35° | 4375.2 | 4389.0 | 4427.2 | 4479.1 | 4537.9 | 4596.7 | 4634.8 | 4669.4 | 4693.6 | 4700.6 | 4700.6 |
| 37.5° | 3838.7 | 3793.7 | 3766.0 | 3766.0 | 3800.6 | 3824.8 | 3859.5 | 3880.2 | 3918.3 | 3932.1 | 3942.5 |
| 40° | 3319.4 | 3215.6 | 3118.7 | 3046.0 | 2997.6 | 2994.1 | 2994.1 | 3004.5 | 3039.1 | 3084.1 | 3125.7 |
| 42.5° | 2855.7 | 2689.5 | 2540.7 | 2405.7 | 2308.8 | 2253.4 | 2229.2 | 2232.6 | 2260.3 | 2301.8 | 2371.0 |
| 45° | 2485.3 | 2277.6 | 2090.7 | 1928.0 | 1796.5 | 1709.9 | 1668.4 | 1664.9 | 1685.7 | 1734.1 | 1810.3 |
| 47.5° | 2198.0 | 1976.4 | 1765.3 | 1578.4 | 1436.5 | 1343.0 | 1294.6 | 1280.8 | 1294.6 | 1339.5 | 1429.6 |
| 50° | 1959.2 | 1730.7 | 1512.6 | 1318.8 | 1166.5 | 1069.6 | 1024.6 | 1007.3 | 1024.6 | 1062.7 | 1152.6 |
| 52.5° | 1737.6 | 1502.2 | 1298.0 | 1111.1 | 948.4 | 865.3 | 816.9 | 806.5 | 816.9 | 861.9 | 934.6 |
| 55° | 1481.5 | 1280.8 | 1079.9 | 893.0 | 751.2 | 668.1 | 630.0 | 619.6 | 630.0 | 671.5 | 747.7 |
| 57.5° | 1228.8 | 1055.7 | 879.2 | 709.6 | 588.5 | 515.7 | 481.1 | 467.3 | 491.5 | 519.2 | 609.2 |
| 60° | 993.4 | 855.0 | 706.1 | 557.3 | 456.9 | 391.1 | 363.4 | 360.0 | 366.9 | 401.5 | 463.8 |
| 62.5° | 778.9 | 664.6 | 546.9 | 425.8 | 342.7 | 315.0 | 280.3 | 276.9 | 283.8 | 304.6 | 353.1 |
| 65° | 560.8 | 488.1 | 398.1 | 311.5 | 245.8 | 207.7 | 193.9 | 197.3 | 204.2 | 218.1 | 263.1 |
| 67.5° | 391.1 | 339.2 | 276.9 | 218.1 | 169.6 | 152.3 | 138.5 | 135.0 | 138.5 | 162.7 | 186.9 |
| 70° | 263.1 | 231.9 | 186.9 | 166.2 | 117.7 | 93.4 | 96.9 | 86.6 | 100.4 | 100.4 | 121.1 |
| 72.5° | 173.0 | 152.3 | 124.6 | 96.9 | 83.1 | 65.8 | 65.8 | 62.3 | 69.2 | 72.7 | 90.0 |
| 75° | 90.0 | 69.2 | 69.2 | 48.4 | 34.6 | 17.3 | 31.2 | 27.7 | 24.2 | 27.7 | 34.6 |
| 77.5° | 62.3 | 51.9 | 48.4 | 38.1 | 34.6 | 27.7 | 27.7 | 27.7 | 27.7 | 31.2 | 34.6 |
| 80° | 38.1 | 38.1 | 27.7 | 24.2 | 20.8 | 17.3 | 20.8 | 20.8 | 20.8 | 20.8 | 24.2 |
| 82.5° | 24.2 | 20.8 | 20.8 | 17.3 | 17.3 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 20.8 |
| 85° | 20.8 | 13.8 | 13.8 | 10.4 | 13.8 | 24.2 | 10.4 | 13.8 | 13.8 | 13.8 | 10.4 |
| 87.5° | 6.9 | 10.4 | 10.4 | 10.4 | 6.9 | 3.5 | 6.9 | 10.4 | 10.4 | 17.3 | 13.8 |
| 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: P249321

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 | 6448.6 |
| 2.5° | 6459.0 | 6462.5 | 6462.5 | 6459.0 | 6459.0 | 6452.0 | 6465.8 | 6455.5 | 6459.0 | 6472.8 | 6462.5 |
| 5° | 6465.8 | 6469.3 | 6469.3 | 6465.8 | 6465.8 | 6465.8 | 6469.3 | 6469.3 | 6465.8 | 6462.5 | 6469.3 |
| 7.5° | 6479.7 | 6476.3 | 6476.3 | 6469.3 | 6469.3 | 6462.5 | 6469.3 | 6459.0 | 6465.8 | 6459.0 | 6469.3 |
| 10° | 6462.5 | 6465.8 | 6462.5 | 6459.0 | 6459.0 | 6455.5 | 6455.5 | 6445.1 | 6448.6 | 6438.2 | 6445.1 |
| 12.5° | 6452.0 | 6448.6 | 6448.6 | 6441.6 | 6434.8 | 6427.8 | 6424.3 | 6413.9 | 6413.9 | 6389.7 | 6400.1 |
| 15° | 6424.3 | 6427.8 | 6417.4 | 6403.6 | 6396.6 | 6379.4 | 6372.4 | 6358.5 | 6344.7 | 6327.5 | 6330.9 |
| 17.5° | 6400.1 | 6389.7 | 6375.9 | 6362.0 | 6334.3 | 6320.5 | 6306.6 | 6285.9 | 6278.9 | 6258.2 | 6251.3 |
| 20° | 6327.5 | 6320.5 | 6303.2 | 6278.9 | 6261.6 | 6230.5 | 6216.7 | 6195.9 | 6178.6 | 6157.8 | 6147.4 |
| 22.5° | 6234.0 | 6227.0 | 6206.3 | 6182.0 | 6154.3 | 6140.5 | 6126.6 | 6088.6 | 6071.3 | 6050.5 | 6047.0 |
| 25° | 6116.3 | 6105.9 | 6085.1 | 6057.4 | 6043.6 | 6005.5 | 5991.6 | 5963.9 | 5957.1 | 5936.3 | 5932.9 |
| 27.5° | 5936.3 | 5922.4 | 5898.2 | 5863.6 | 5839.4 | 5815.1 | 5801.3 | 5780.5 | 5773.6 | 5752.8 | 5749.4 |
| 30° | 5666.3 | 5649.0 | 5600.5 | 5586.7 | 5545.1 | 5520.9 | 5520.9 | 5493.2 | 5496.7 | 5482.9 | 5482.9 |
| 32.5° | 5240.6 | 5212.9 | 5174.8 | 5147.1 | 5119.4 | 5105.6 | 5105.6 | 5095.1 | 5102.1 | 5102.1 | 5109.0 |
| 35° | 4676.3 | 4638.3 | 4617.5 | 4600.2 | 4600.2 | 4614.0 | 4655.6 | 4666.0 | 4686.7 | 4704.0 | 4717.9 |
| 37.5° | 3952.9 | 3949.5 | 3973.7 | 3994.5 | 4046.4 | 4105.2 | 4177.9 | 4240.2 | 4299.0 | 4340.6 | 4382.1 |
| 40° | 3170.6 | 3257.2 | 3326.4 | 3423.4 | 3502.9 | 3617.1 | 3748.7 | 3856.0 | 3956.3 | 4029.1 | 4105.2 |
| 42.5° | 2474.9 | 2585.6 | 2731.1 | 2872.9 | 3014.9 | 3170.6 | 3343.7 | 3492.6 | 3624.1 | 3724.4 | 3804.1 |
| 45° | 1928.0 | 2080.3 | 2256.9 | 2436.8 | 2620.3 | 2814.1 | 2994.1 | 3146.4 | 3284.9 | 3388.7 | 3468.3 |
| 47.5° | 1554.1 | 1720.3 | 1921.0 | 2118.4 | 2326.1 | 2530.3 | 2731.1 | 2862.6 | 2976.8 | 3059.9 | 3132.6 |
| 50° | 1284.1 | 1460.7 | 1671.9 | 1896.8 | 2104.5 | 2308.8 | 2481.8 | 2609.9 | 2703.4 | 2776.0 | 2821.0 |
| 52.5° | 1073.0 | 1259.9 | 1485.0 | 1709.9 | 1917.6 | 2104.5 | 2260.3 | 2357.2 | 2433.4 | 2485.3 | 2526.8 |
| 55° | 886.1 | 1066.1 | 1277.3 | 1488.4 | 1692.6 | 1869.1 | 1997.2 | 2069.9 | 2128.7 | 2159.9 | 2184.1 |
| 57.5° | 723.5 | 889.5 | 1083.4 | 1277.3 | 1453.8 | 1599.2 | 1699.6 | 1772.2 | 1799.9 | 1824.2 | 1820.7 |
| 60° | 567.7 | 723.5 | 900.0 | 1066.1 | 1218.4 | 1336.1 | 1408.8 | 1450.3 | 1471.1 | 1481.5 | 1474.5 |
| 62.5° | 446.5 | 588.5 | 723.5 | 868.8 | 979.6 | 1079.9 | 1149.2 | 1149.2 | 1159.6 | 1163.0 | 1173.4 |
| 65° | 332.3 | 439.6 | 557.3 | 664.6 | 754.5 | 820.4 | 858.5 | 868.8 | 882.7 | 879.2 | 872.3 |
| 67.5° | 245.8 | 325.4 | 411.9 | 491.5 | 553.8 | 595.3 | 623.0 | 647.3 | 643.8 | 636.9 | 633.4 |
| 70° | 169.6 | 221.6 | 297.7 | 346.1 | 391.1 | 432.7 | 439.6 | 443.0 | 446.5 | 450.0 | 443.0 |
| 72.5° | 117.7 | 155.8 | 197.3 | 238.8 | 266.5 | 283.8 | 301.2 | 304.6 | 304.6 | 304.6 | 301.2 |
| 75° | 58.9 | 79.6 | 117.7 | 135.0 | 159.2 | 166.2 | 180.0 | 180.0 | 190.4 | 176.5 | 173.0 |
| 77.5° | 51.9 | 62.3 | 83.1 | 96.9 | 107.3 | 117.7 | 121.1 | 131.5 | 128.1 | 121.1 | 124.6 |
| 80° | 31.2 | 38.1 | 51.9 | 58.9 | 72.7 | 76.1 | 79.6 | 83.1 | 79.6 | 83.1 | 83.1 |
| 82.5° | 24.2 | 27.7 | 34.6 | 34.6 | 45.0 | 45.0 | 48.4 | 48.4 | 51.9 | 51.9 | 51.9 |
| 85° | 13.8 | 24.2 | 20.8 | 41.5 | 27.7 | 27.7 | 34.6 | 41.5 | 34.6 | 34.6 | 41.5 |
| 87.5° | 13.8 | 13.8 | 10.4 | 13.8 | 13.8 | 13.8 | 17.3 | 20.8 | 20.8 | 24.2 | 20.8 |
| 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: P249321

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 6448.6 | 6448.6 | 6448.6 | 6448.6 |
| 2.5° | 6459.0 | 6465.8 | 6455.5 | 6452.0 |
| 5° | 6469.3 | 6469.3 | 6462.5 | 6462.5 |
| 7.5° | 6469.3 | 6469.3 | 6459.0 | 6452.0 |
| 10° | 6441.6 | 6441.6 | 6431.3 | 6424.3 |
| 12.5° | 6389.7 | 6389.7 | 6386.2 | 6375.9 |
| 15° | 6324.0 | 6324.0 | 6310.1 | 6299.8 |
| 17.5° | 6234.0 | 6240.9 | 6223.6 | 6223.6 |
| 20° | 6137.1 | 6133.6 | 6119.8 | 6112.8 |
| 22.5° | 6036.7 | 6029.8 | 6026.3 | 6005.5 |
| 25° | 5929.4 | 5922.4 | 5912.0 | 5901.7 |
| 27.5° | 5745.9 | 5742.5 | 5732.1 | 5718.2 |
| 30° | 5465.5 | 5462.0 | 5448.2 | 5448.2 |
| 32.5° | 5102.1 | 5098.6 | 5084.8 | 5088.3 |
| 35° | 4724.8 | 4738.7 | 4731.7 | 4717.9 |
| 37.5° | 4409.8 | 4420.2 | 4427.2 | 4420.2 |
| 40° | 4146.7 | 4177.9 | 4181.4 | 4188.3 |
| 42.5° | 3866.4 | 3907.9 | 3921.8 | 3928.6 |
| 45° | 3530.6 | 3568.7 | 3599.9 | 3592.9 |
| 47.5° | 3187.9 | 3215.6 | 3243.3 | 3222.5 |
| 50° | 2859.1 | 2876.4 | 2886.8 | 2886.8 |
| 52.5° | 2547.6 | 2547.6 | 2544.1 | 2547.6 |
| 55° | 2191.1 | 2191.1 | 2177.2 | 2184.1 |
| 57.5° | 1817.2 | 1824.2 | 1813.7 | 1796.5 |
| 60° | 1471.1 | 1453.8 | 1446.8 | 1436.5 |
| 62.5° | 1145.7 | 1145.7 | 1121.5 | 1152.6 |
| 65° | 858.5 | 848.0 | 837.6 | 834.2 |
| 67.5° | 623.0 | 619.6 | 609.2 | 605.7 |
| 70° | 439.6 | 425.8 | 422.3 | 415.3 |
| 72.5° | 294.2 | 294.2 | 287.3 | 287.3 |
| 75° | 180.0 | 162.7 | 159.2 | 162.7 |
| 77.5° | 124.6 | 121.1 | 121.1 | 117.7 |
| 80° | 83.1 | 79.6 | 86.6 | 76.1 |
| 82.5° | 51.9 | 55.4 | 51.9 | 55.4 |
| 85° | 34.6 | 41.5 | 38.1 | 38.1 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)