

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: P250219

Luminaire Tested: **LD8B90D010 ER8B90835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250219
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: LD8B90D010 ER8B90835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9610.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

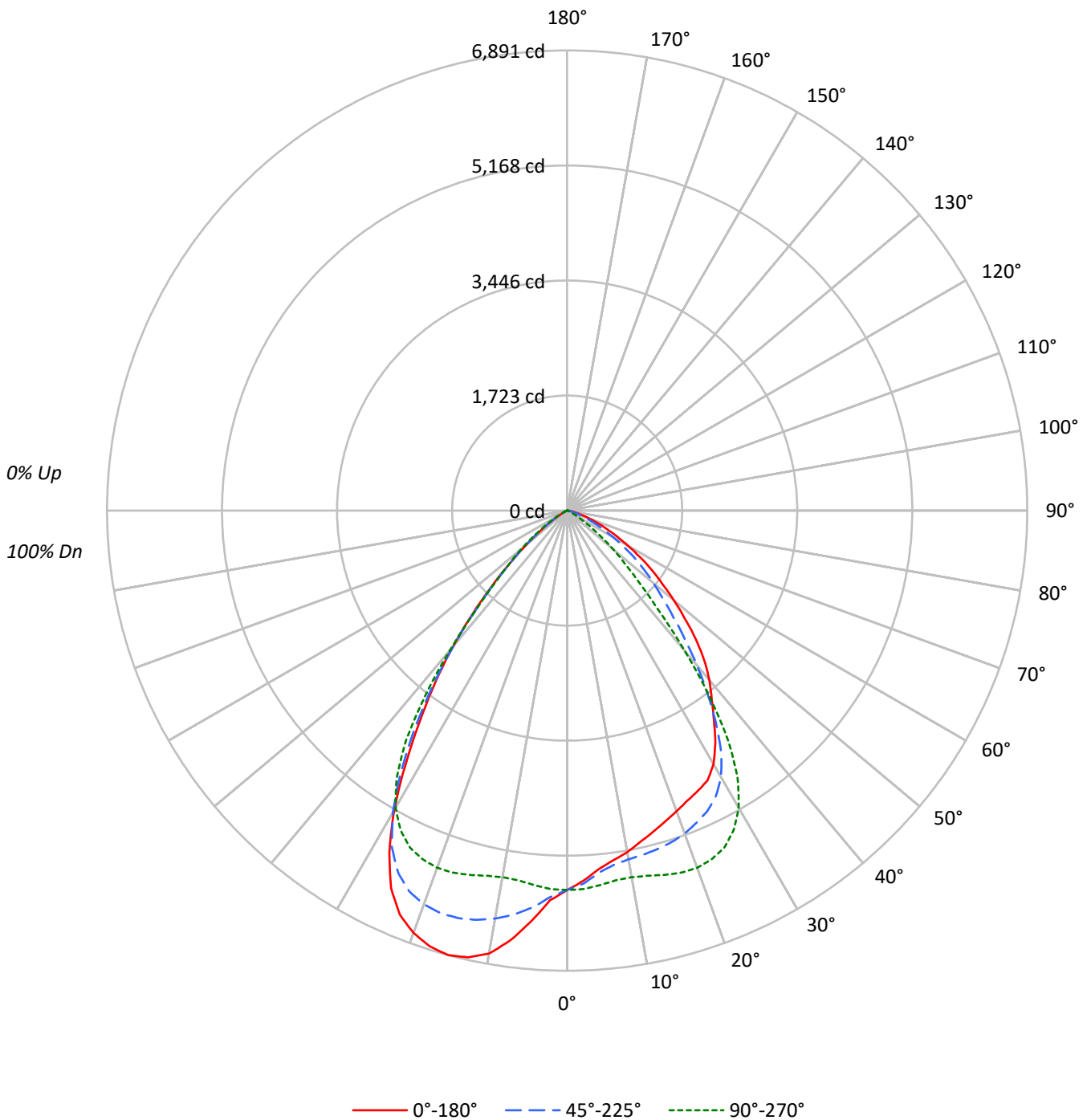
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250219

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250219

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WH

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° | 175224 | 175224 | 175224 |
| 5° | 166935 | 174250 | 191021 |
| 10° | 162631 | 174521 | 210855 |
| 15° | 158944 | 180304 | 219976 |
| 20° | 157192 | 186818 | 220801 |
| 25° | 157562 | 189456 | 212222 |
| 30° | 156100 | 182951 | 184560 |
| 35° | 144241 | 158331 | 144437 |
| 40° | 133289 | 109773 | 107104 |
| 45° | 118691 | 66238 | 68436 |
| 50° | 99870 | 42677 | 38728 |
| 55° | 83083 | 23408 | 17704 |
| 60° | 64849 | 10151 | 5569 |
| 65° | 47858 | 5042 | 2714 |
| 70° | 33278 | 3110 | 1190 |
| 75° | 20254 | 643 | 0 |
| 80° | 14615 | 959 | 0 |
| 85° | 9411 | 920 | 0 |



TEST NUMBER: P250219

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 546.3 | 5.7 |
| 10°-20° | 1634.9 | 17.0 |
| 20°-30° | 2503.7 | 26.1 |
| 30°-40° | 2454.5 | 25.5 |
| 40°-50° | 1478.1 | 15.4 |
| 50°-60° | 680.3 | 7.1 |
| 60°-70° | 239.0 | 2.5 |
| 70°-80° | 62.5 | 0.7 |
| 80°-90° | 10.6 | 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° | 4684.9 | 48.8 |
| 0°-40° | 7139.4 | 74.3 |
| 0°-60° | 9297.9 | 96.8 |
| 0°-90° | 9610.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9610.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 5682 | 5682 | 5682 | 5682 | 5682 | |
| 5° | 5393 | 5444 | 5629 | 5967 | 6171 | 509 |
| 15° | 4979 | 5247 | 5648 | 6317 | 6891 | 1407 |
| 25° | 4631 | 4966 | 5568 | 5988 | 6237 | 2133 |
| 35° | 3832 | 3885 | 4206 | 3964 | 3837 | 2400 |
| 45° | 2722 | 2241 | 1519 | 1530 | 1569 | 2087 |
| 55° | 1545 | 1224 | 435 | 342 | 329 | 1379 |
| 65° | 656 | 454 | 69 | 34 | 37 | 668 |
| 75° | 170 | 98 | 5 | 0 | 0 | 206 |
| 85° | 27 | 13 | 3 | 0 | 0 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P250219

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 |
| 2.5° | 5549.6 | 5555.0 | 5555.0 | 5555.0 | 5565.6 | 5568.3 | 5565.6 | 5568.3 | 5573.6 | 5592.1 | 5600.1 |
| 5° | 5393.0 | 5385.0 | 5390.4 | 5387.6 | 5401.0 | 5409.0 | 5403.6 | 5411.6 | 5430.2 | 5443.5 | 5456.7 |
| 7.5° | 5281.5 | 5281.5 | 5281.5 | 5286.8 | 5294.7 | 5310.7 | 5308.1 | 5313.3 | 5331.9 | 5350.5 | 5369.1 |
| 10° | 5193.9 | 5191.2 | 5191.2 | 5204.5 | 5215.1 | 5233.6 | 5239.0 | 5255.0 | 5278.8 | 5302.7 | 5323.9 |
| 12.5° | 5079.6 | 5082.4 | 5095.6 | 5108.9 | 5132.8 | 5161.9 | 5177.9 | 5199.2 | 5236.4 | 5276.2 | 5300.1 |
| 15° | 4978.8 | 4981.4 | 4992.1 | 5018.5 | 5047.8 | 5082.4 | 5116.8 | 5151.3 | 5196.5 | 5247.0 | 5289.5 |
| 17.5° | 4880.5 | 4883.1 | 4891.1 | 4920.4 | 4957.6 | 5002.7 | 5042.5 | 5087.6 | 5146.1 | 5204.5 | 5257.6 |
| 20° | 4790.2 | 4787.6 | 4800.8 | 4827.4 | 4875.3 | 4917.7 | 4957.6 | 5010.7 | 5074.4 | 5146.1 | 5207.1 |
| 22.5° | 4702.6 | 4702.6 | 4715.9 | 4742.5 | 4785.0 | 4827.4 | 4869.9 | 4925.6 | 4989.4 | 5058.4 | 5130.1 |
| 25° | 4630.9 | 4628.3 | 4646.8 | 4660.2 | 4692.0 | 4734.5 | 4779.6 | 4824.8 | 4888.5 | 4965.5 | 5034.5 |
| 27.5° | 4553.9 | 4551.3 | 4553.9 | 4569.9 | 4599.1 | 4630.9 | 4665.4 | 4705.3 | 4758.4 | 4822.1 | 4888.5 |
| 30° | 4384.0 | 4386.6 | 4386.6 | 4399.9 | 4415.9 | 4450.3 | 4468.9 | 4508.8 | 4556.6 | 4609.7 | 4668.1 |
| 32.5° | 4131.7 | 4134.3 | 4134.3 | 4139.7 | 4152.9 | 4168.9 | 4184.8 | 4214.0 | 4251.2 | 4296.3 | 4349.4 |
| 35° | 3831.7 | 3831.7 | 3829.0 | 3831.7 | 3839.7 | 3839.7 | 3852.9 | 3839.7 | 3858.3 | 3884.8 | 3924.6 |
| 37.5° | 3555.5 | 3550.2 | 3544.9 | 3539.6 | 3531.6 | 3518.4 | 3499.8 | 3467.9 | 3459.9 | 3449.3 | 3451.9 |
| 40° | 3311.2 | 3308.6 | 3292.7 | 3279.3 | 3252.8 | 3221.0 | 3175.8 | 3120.1 | 3074.9 | 3021.8 | 2976.7 |
| 42.5° | 3040.4 | 3037.7 | 3024.4 | 3000.5 | 2971.3 | 2923.6 | 2851.9 | 2777.5 | 2687.3 | 2607.6 | 2525.3 |
| 45° | 2721.7 | 2729.7 | 2711.1 | 2684.5 | 2650.0 | 2604.9 | 2525.3 | 2434.9 | 2344.6 | 2241.1 | 2137.5 |
| 47.5° | 2389.8 | 2387.1 | 2373.9 | 2358.0 | 2328.8 | 2283.6 | 2230.5 | 2132.3 | 2036.6 | 1941.1 | 1834.9 |
| 50° | 2081.8 | 2071.2 | 2065.8 | 2050.0 | 2031.4 | 1994.2 | 1938.4 | 1858.7 | 1773.8 | 1683.5 | 1585.2 |
| 52.5° | 1789.7 | 1789.7 | 1776.4 | 1765.8 | 1749.8 | 1720.6 | 1672.9 | 1609.2 | 1537.5 | 1452.4 | 1348.9 |
| 55° | 1545.4 | 1540.1 | 1526.9 | 1513.5 | 1497.6 | 1479.0 | 1436.6 | 1383.5 | 1306.4 | 1224.1 | 1133.8 |
| 57.5° | 1285.2 | 1282.5 | 1277.2 | 1261.3 | 1253.3 | 1234.7 | 1187.0 | 1133.8 | 1067.5 | 995.8 | 921.4 |
| 60° | 1051.5 | 1040.9 | 1030.2 | 1019.6 | 1006.4 | 987.8 | 955.9 | 910.8 | 855.0 | 791.3 | 717.0 |
| 62.5° | 841.8 | 857.6 | 825.8 | 825.8 | 799.3 | 783.3 | 754.1 | 727.6 | 669.1 | 610.7 | 547.0 |
| 65° | 655.9 | 655.9 | 642.6 | 632.0 | 616.0 | 597.4 | 568.2 | 541.7 | 499.2 | 454.0 | 408.9 |
| 67.5° | 501.9 | 499.2 | 485.9 | 475.3 | 462.0 | 451.4 | 430.2 | 398.3 | 366.5 | 329.3 | 292.0 |
| 70° | 369.1 | 366.5 | 363.7 | 345.2 | 334.6 | 321.3 | 305.4 | 284.2 | 260.2 | 233.7 | 199.1 |
| 72.5° | 265.5 | 265.5 | 257.6 | 249.6 | 239.0 | 228.3 | 212.5 | 199.1 | 177.9 | 159.4 | 135.4 |
| 75° | 170.0 | 167.3 | 167.3 | 154.0 | 154.0 | 138.0 | 127.4 | 119.5 | 108.9 | 98.3 | 77.1 |
| 77.5° | 122.2 | 119.5 | 116.8 | 111.5 | 106.2 | 100.9 | 92.9 | 82.3 | 74.3 | 63.7 | 55.7 |
| 80° | 82.3 | 77.1 | 74.3 | 74.3 | 66.3 | 63.7 | 66.3 | 50.5 | 47.8 | 39.8 | 34.5 |
| 82.5° | 50.5 | 50.5 | 47.8 | 47.8 | 45.1 | 42.5 | 34.5 | 34.5 | 31.9 | 29.2 | 23.9 |
| 85° | 26.6 | 34.5 | 23.9 | 26.6 | 23.9 | 26.6 | 23.9 | 18.6 | 16.0 | 13.2 | 13.2 |
| 87.5° | 16.0 | 10.6 | 10.6 | 16.0 | 13.2 | 10.6 | 10.6 | 10.6 | 8.0 | 5.4 | 5.4 |
| 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: P250219

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 |
| 2.5° | 5594.9 | 5613.4 | 5610.7 | 5634.7 | 5642.6 | 5661.2 | 5661.2 | 5674.4 | 5682.4 | 5701.0 | 5717.0 |
| 5° | 5462.1 | 5491.3 | 5499.2 | 5528.4 | 5552.4 | 5581.5 | 5600.1 | 5629.3 | 5655.9 | 5695.7 | 5732.9 |
| 7.5° | 5379.8 | 5403.6 | 5419.6 | 5454.1 | 5480.7 | 5512.5 | 5544.4 | 5584.2 | 5621.3 | 5669.2 | 5722.3 |
| 10° | 5339.9 | 5371.8 | 5395.6 | 5430.2 | 5462.1 | 5496.6 | 5528.4 | 5573.6 | 5616.1 | 5677.2 | 5735.5 |
| 12.5° | 5329.3 | 5366.4 | 5395.6 | 5443.5 | 5475.3 | 5512.5 | 5549.6 | 5600.1 | 5645.3 | 5709.0 | 5775.4 |
| 15° | 5329.3 | 5379.8 | 5419.6 | 5472.7 | 5509.8 | 5557.6 | 5597.5 | 5647.9 | 5698.4 | 5764.7 | 5828.4 |
| 17.5° | 5318.7 | 5379.8 | 5430.2 | 5491.3 | 5539.0 | 5586.9 | 5637.3 | 5685.1 | 5738.2 | 5802.0 | 5873.6 |
| 20° | 5276.2 | 5353.2 | 5414.2 | 5485.9 | 5536.4 | 5589.5 | 5640.0 | 5693.0 | 5748.9 | 5815.2 | 5876.3 |
| 22.5° | 5201.8 | 5292.1 | 5361.2 | 5438.1 | 5496.6 | 5549.6 | 5600.1 | 5653.2 | 5714.3 | 5778.0 | 5841.8 |
| 25° | 5103.6 | 5188.5 | 5262.9 | 5342.5 | 5401.0 | 5459.3 | 5507.2 | 5568.3 | 5624.0 | 5685.1 | 5735.5 |
| 27.5° | 4954.8 | 5045.1 | 5116.8 | 5199.2 | 5252.2 | 5308.1 | 5347.9 | 5398.4 | 5451.5 | 5501.9 | 5541.7 |
| 30° | 4731.9 | 4814.2 | 4888.5 | 4962.8 | 5015.9 | 5055.8 | 5098.2 | 5138.1 | 5172.7 | 5207.1 | 5241.6 |
| 32.5° | 4405.2 | 4479.6 | 4551.3 | 4620.3 | 4662.8 | 4697.3 | 4729.1 | 4753.1 | 4771.6 | 4790.2 | 4792.9 |
| 35° | 3956.5 | 4017.5 | 4062.6 | 4123.7 | 4163.6 | 4195.4 | 4195.4 | 4206.0 | 4203.4 | 4195.4 | 4187.5 |
| 37.5° | 3454.6 | 3478.5 | 3497.0 | 3521.0 | 3523.6 | 3523.6 | 3507.7 | 3494.4 | 3473.2 | 3467.9 | 3451.9 |
| 40° | 2931.5 | 2899.6 | 2875.7 | 2843.9 | 2825.3 | 2785.4 | 2751.0 | 2727.0 | 2692.5 | 2687.3 | 2681.9 |
| 42.5° | 2434.9 | 2360.6 | 2294.2 | 2238.5 | 2174.8 | 2118.9 | 2068.5 | 2031.4 | 2004.8 | 2002.1 | 2004.8 |
| 45° | 2031.4 | 1946.3 | 1848.1 | 1771.1 | 1699.4 | 1630.4 | 1564.0 | 1518.9 | 1495.0 | 1489.6 | 1495.0 |
| 47.5° | 1726.0 | 1627.7 | 1532.1 | 1444.5 | 1367.5 | 1290.5 | 1224.1 | 1163.0 | 1133.8 | 1125.9 | 1123.2 |
| 50° | 1484.4 | 1383.5 | 1282.5 | 1192.2 | 1107.3 | 1030.2 | 947.9 | 889.6 | 852.4 | 839.1 | 828.5 |
| 52.5° | 1248.1 | 1157.8 | 1054.2 | 961.3 | 876.2 | 785.9 | 701.0 | 634.6 | 597.4 | 581.6 | 570.9 |
| 55° | 1040.9 | 950.7 | 855.0 | 764.7 | 674.5 | 584.2 | 499.2 | 435.4 | 395.7 | 377.1 | 363.7 |
| 57.5° | 831.1 | 746.2 | 663.9 | 573.6 | 499.2 | 411.6 | 326.6 | 270.8 | 236.3 | 215.1 | 204.5 |
| 60° | 642.6 | 576.2 | 504.5 | 430.2 | 358.5 | 286.8 | 217.7 | 164.6 | 138.0 | 122.2 | 108.9 |
| 62.5° | 485.9 | 430.2 | 382.3 | 318.6 | 262.9 | 201.8 | 148.8 | 106.2 | 82.3 | 69.1 | 63.7 |
| 65° | 350.5 | 308.0 | 265.5 | 225.7 | 185.9 | 140.8 | 100.9 | 69.1 | 47.8 | 39.8 | 37.2 |
| 67.5° | 249.6 | 215.1 | 183.2 | 156.6 | 127.4 | 100.9 | 71.7 | 47.8 | 37.2 | 31.9 | 29.2 |
| 70° | 175.2 | 148.8 | 127.4 | 103.6 | 84.9 | 66.3 | 55.7 | 34.5 | 21.2 | 23.9 | 18.6 |
| 72.5° | 116.8 | 98.3 | 87.7 | 71.7 | 58.4 | 47.8 | 34.5 | 23.9 | 23.9 | 18.6 | 16.0 |
| 75° | 63.7 | 58.4 | 45.1 | 34.5 | 29.2 | 26.6 | 10.6 | 5.4 | 2.6 | 8.0 | 2.6 |
| 77.5° | 45.1 | 39.8 | 34.5 | 29.2 | 23.9 | 18.6 | 10.6 | 10.6 | 8.0 | 10.6 | 5.4 |
| 80° | 29.2 | 23.9 | 21.2 | 21.2 | 13.2 | 8.0 | 5.4 | 5.4 | 8.0 | 2.6 | 2.6 |
| 82.5° | 18.6 | 16.0 | 13.2 | 13.2 | 13.2 | 8.0 | 8.0 | 8.0 | 8.0 | 5.4 | 5.4 |
| 85° | 10.6 | 8.0 | 5.4 | 5.4 | 2.6 | 5.4 | 0.0 | 2.6 | 2.6 | 0.0 | 0.0 |
| 87.5° | 5.4 | 2.6 | 2.6 | 2.6 | 2.6 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 | 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: P250219

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 | 5682.4 |
| 2.5° | 5727.6 | 5738.2 | 5751.5 | 5762.1 | 5786.0 | 5791.3 | 5802.0 | 5812.6 | 5820.6 | 5828.4 | 5831.2 |
| 5° | 5764.7 | 5804.6 | 5841.8 | 5881.6 | 5932.0 | 5966.6 | 6006.4 | 6040.9 | 6075.4 | 6104.6 | 6125.8 |
| 7.5° | 5775.4 | 5836.4 | 5892.3 | 5961.2 | 6035.5 | 6099.4 | 6165.7 | 6232.1 | 6301.1 | 6354.3 | 6399.4 |
| 10° | 5796.6 | 5870.9 | 5942.6 | 6024.9 | 6120.6 | 6205.5 | 6287.8 | 6375.5 | 6463.1 | 6537.4 | 6603.9 |
| 12.5° | 5833.8 | 5916.1 | 5993.1 | 6083.4 | 6181.7 | 6277.2 | 6367.5 | 6465.7 | 6558.7 | 6641.0 | 6715.4 |
| 15° | 5894.9 | 5971.8 | 6046.3 | 6131.2 | 6229.4 | 6317.1 | 6407.4 | 6502.9 | 6595.9 | 6680.8 | 6749.9 |
| 17.5° | 5934.7 | 6006.4 | 6080.7 | 6157.7 | 6240.0 | 6319.7 | 6404.6 | 6489.7 | 6574.6 | 6651.7 | 6715.4 |
| 20° | 5934.7 | 6003.7 | 6059.5 | 6128.6 | 6205.5 | 6274.6 | 6343.7 | 6418.0 | 6492.3 | 6556.0 | 6617.1 |
| 22.5° | 5886.9 | 5953.2 | 5995.8 | 6048.9 | 6115.2 | 6173.7 | 6210.9 | 6293.2 | 6348.9 | 6404.6 | 6449.8 |
| 25° | 5775.4 | 5823.2 | 5857.7 | 5894.9 | 5948.0 | 5987.8 | 6019.7 | 6067.5 | 6123.2 | 6144.5 | 6176.3 |
| 27.5° | 5573.6 | 5608.1 | 5626.7 | 5634.7 | 5661.2 | 5682.4 | 5687.8 | 5709.0 | 5732.9 | 5738.2 | 5751.5 |
| 30° | 5255.0 | 5257.6 | 5249.6 | 5247.0 | 5233.6 | 5217.8 | 5215.1 | 5212.4 | 5201.8 | 5191.2 | 5193.9 |
| 32.5° | 4774.3 | 4761.0 | 4729.1 | 4694.7 | 4660.2 | 4623.0 | 4601.7 | 4575.1 | 4559.2 | 4543.3 | 4524.7 |
| 35° | 4152.9 | 4121.1 | 4076.0 | 4033.5 | 3993.7 | 3964.4 | 3916.6 | 3900.7 | 3884.8 | 3863.5 | 3858.3 |
| 37.5° | 3422.7 | 3404.1 | 3361.6 | 3329.8 | 3308.6 | 3295.3 | 3271.3 | 3255.5 | 3255.5 | 3247.5 | 3242.2 |
| 40° | 2668.6 | 2663.3 | 2647.4 | 2655.3 | 2644.7 | 2650.0 | 2647.4 | 2642.0 | 2655.3 | 2655.3 | 2660.7 |
| 42.5° | 2002.1 | 2004.8 | 2012.8 | 2018.0 | 2034.0 | 2036.6 | 2050.0 | 2050.0 | 2057.9 | 2065.8 | 2071.2 |
| 45° | 1489.6 | 1500.3 | 1500.3 | 1510.9 | 1526.9 | 1529.5 | 1534.7 | 1537.5 | 1542.7 | 1556.0 | 1561.3 |
| 47.5° | 1117.9 | 1120.5 | 1120.5 | 1123.2 | 1128.5 | 1133.8 | 1131.2 | 1133.8 | 1141.8 | 1136.5 | 1141.8 |
| 50° | 825.8 | 828.5 | 820.5 | 812.5 | 820.5 | 820.5 | 817.9 | 809.9 | 817.9 | 807.3 | 812.5 |
| 52.5° | 563.0 | 560.3 | 552.3 | 555.0 | 549.7 | 547.0 | 547.0 | 541.7 | 541.7 | 541.7 | 531.1 |
| 55° | 355.9 | 355.9 | 350.5 | 350.5 | 347.9 | 342.5 | 339.9 | 337.2 | 334.6 | 331.9 | 331.9 |
| 57.5° | 199.1 | 201.8 | 193.9 | 191.2 | 193.9 | 191.2 | 185.9 | 185.9 | 185.9 | 177.9 | 183.2 |
| 60° | 108.9 | 106.2 | 103.6 | 100.9 | 98.3 | 100.9 | 100.9 | 95.6 | 95.6 | 95.6 | 98.3 |
| 62.5° | 58.4 | 58.4 | 55.7 | 55.7 | 53.1 | 53.1 | 58.4 | 50.5 | 53.1 | 50.5 | 53.1 |
| 65° | 31.9 | 39.8 | 29.2 | 29.2 | 37.2 | 34.5 | 31.9 | 31.9 | 34.5 | 29.2 | 31.9 |
| 67.5° | 34.5 | 23.9 | 21.2 | 23.9 | 21.2 | 21.2 | 21.2 | 26.6 | 23.9 | 18.6 | 23.9 |
| 70° | 16.0 | 18.6 | 18.6 | 13.2 | 21.2 | 10.6 | 18.6 | 10.6 | 16.0 | 13.2 | 16.0 |
| 72.5° | 16.0 | 16.0 | 16.0 | 10.6 | 16.0 | 10.6 | 13.2 | 13.2 | 10.6 | 10.6 | 16.0 |
| 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° | 5.4 | 5.4 | 2.6 | 2.6 | 2.6 | 2.6 | 5.4 | 5.4 | 5.4 | 0.0 | 2.6 |
| 80° | 5.4 | 5.4 | 0.0 | 2.6 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 | 0.0 | 5.4 |
| 82.5° | 2.6 | 5.4 | 2.6 | 2.6 | 5.4 | 5.4 | 5.4 | 2.6 | 2.6 | 2.6 | 2.6 |
| 85° | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 0.0 | 0.0 | 0.0 | 2.6 |
| 87.5° | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 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: P250219

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 5682.4 | 5682.4 | 5682.4 | 5682.4 |
| 2.5° | 5833.8 | 5836.4 | 5841.8 | 5839.1 |
| 5° | 6141.8 | 6163.1 | 6173.7 | 6171.1 |
| 7.5° | 6431.2 | 6468.5 | 6489.7 | 6489.7 |
| 10° | 6654.3 | 6696.8 | 6728.6 | 6734.0 |
| 12.5° | 6773.7 | 6821.6 | 6864.1 | 6853.4 |
| 15° | 6808.3 | 6856.1 | 6898.6 | 6890.6 |
| 17.5° | 6768.5 | 6816.3 | 6848.2 | 6842.8 |
| 20° | 6659.6 | 6699.4 | 6731.3 | 6728.6 |
| 22.5° | 6489.7 | 6524.2 | 6550.8 | 6548.0 |
| 25° | 6202.9 | 6226.8 | 6248.0 | 6237.4 |
| 27.5° | 5762.1 | 5770.1 | 5783.3 | 5767.4 |
| 30° | 5175.3 | 5180.5 | 5185.9 | 5183.3 |
| 32.5° | 4516.8 | 4514.0 | 4508.8 | 4503.4 |
| 35° | 3850.3 | 3850.3 | 3852.9 | 3836.9 |
| 37.5° | 3244.8 | 3242.2 | 3250.1 | 3242.2 |
| 40° | 2666.0 | 2663.3 | 2673.9 | 2660.7 |
| 42.5° | 2079.1 | 2087.1 | 2089.7 | 2089.7 |
| 45° | 1564.0 | 1566.7 | 1569.3 | 1569.3 |
| 47.5° | 1141.8 | 1144.4 | 1157.8 | 1141.8 |
| 50° | 807.3 | 809.9 | 812.5 | 807.3 |
| 52.5° | 533.7 | 536.4 | 533.7 | 525.7 |
| 55° | 326.6 | 329.3 | 329.3 | 329.3 |
| 57.5° | 175.2 | 177.9 | 177.9 | 175.2 |
| 60° | 95.6 | 92.9 | 95.6 | 90.3 |
| 62.5° | 50.5 | 55.7 | 53.1 | 47.8 |
| 65° | 31.9 | 31.9 | 31.9 | 37.2 |
| 67.5° | 26.6 | 21.2 | 23.9 | 18.6 |
| 70° | 16.0 | 18.6 | 18.6 | 13.2 |
| 72.5° | 13.2 | 13.2 | 13.2 | 16.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5.4 | 5.4 | 5.4 | 2.6 |
| 80° | 2.6 | 0.0 | 2.6 | 0.0 |
| 82.5° | 2.6 | 2.6 | 5.4 | 2.6 |
| 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)