

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: P249083

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249083
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: LSR8B70D010 EC8B70827 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7160.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

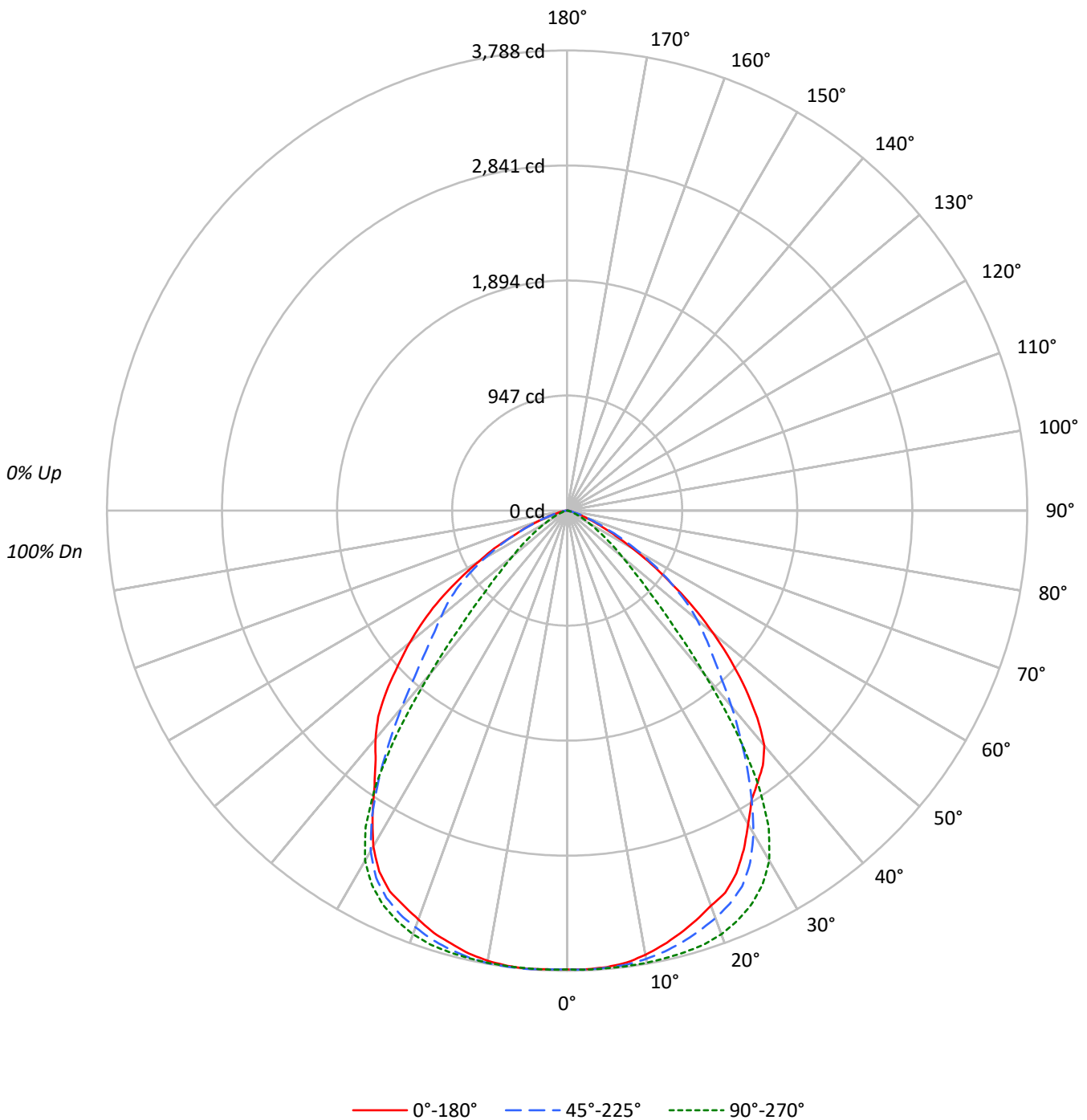
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249083

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P249083

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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 | 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° | 116493 | 116493 | 116493 |
| 5° | 116750 | 117062 | 117189 |
| 10° | 116258 | 118353 | 117846 |
| 15° | 114968 | 120083 | 117819 |
| 20° | 113587 | 121771 | 117515 |
| 25° | 112113 | 121912 | 117635 |
| 30° | 106065 | 118485 | 113646 |
| 35° | 102900 | 102976 | 104045 |
| 40° | 101625 | 70851 | 98767 |
| 45° | 90554 | 42536 | 91789 |
| 50° | 75293 | 28309 | 81132 |
| 55° | 56471 | 19515 | 68788 |
| 60° | 38268 | 13007 | 51898 |
| 65° | 23086 | 8435 | 35658 |
| 70° | 12803 | 4571 | 21936 |
| 75° | 5802 | 1930 | 11354 |
| 80° | 5043 | 2166 | 7920 |
| 85° | 5732 | 2866 | 7890 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 360.5 | 5.0 |
| 10°-20° | 1047.0 | 14.6 |
| 20°-30° | 1589.2 | 22.2 |
| 30°-40° | 1669.1 | 23.3 |
| 40°-50° | 1251.4 | 17.5 |
| 50°-60° | 802.9 | 11.2 |
| 60°-70° | 343.5 | 4.8 |
| 70°-80° | 81.1 | 1.1 |
| 80°-90° | 15.1 | 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° | 2996.8 | 41.9 |
| 0°-40° | 4665.9 | 65.2 |
| 0°-60° | 6720.3 | 93.9 |
| 0°-90° | 7160.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7160.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3778 | 3778 | 3778 | 3778 | 3778 | |
| 5° | 3772 | 3778 | 3782 | 3788 | 3786 | 358 |
| 15° | 3601 | 3676 | 3762 | 3737 | 3691 | 1016 |
| 25° | 3295 | 3411 | 3583 | 3518 | 3457 | 1505 |
| 35° | 2734 | 2581 | 2736 | 2703 | 2764 | 1716 |
| 45° | 2076 | 1697 | 975 | 1649 | 2105 | 1590 |
| 55° | 1050 | 1050 | 363 | 1095 | 1280 | 953 |
| 65° | 316 | 373 | 116 | 481 | 489 | 338 |
| 75° | 49 | 57 | 16 | 97 | 95 | 71 |
| 85° | 16 | 10 | 8 | 16 | 22 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249083

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 |
| 2.5° | 3779.8 | 3783.9 | 3781.8 | 3781.8 | 3779.8 | 3781.8 | 3781.8 | 3785.9 | 3785.9 | 3781.8 | 3779.8 |
| 5° | 3771.7 | 3775.7 | 3775.7 | 3771.7 | 3771.7 | 3781.8 | 3775.7 | 3779.8 | 3779.8 | 3777.8 | 3777.8 |
| 7.5° | 3753.4 | 3753.4 | 3761.5 | 3755.5 | 3755.5 | 3761.5 | 3759.5 | 3763.6 | 3767.6 | 3769.7 | 3769.7 |
| 10° | 3712.9 | 3716.9 | 3719.0 | 3719.0 | 3721.0 | 3727.0 | 3731.1 | 3739.3 | 3743.3 | 3747.3 | 3749.4 |
| 12.5° | 3662.2 | 3668.3 | 3670.3 | 3668.3 | 3674.4 | 3682.4 | 3692.6 | 3702.7 | 3708.8 | 3716.9 | 3723.0 |
| 15° | 3601.3 | 3601.3 | 3605.4 | 3611.5 | 3615.6 | 3627.7 | 3637.8 | 3650.0 | 3666.2 | 3676.4 | 3686.5 |
| 17.5° | 3534.4 | 3538.5 | 3544.6 | 3544.6 | 3552.7 | 3572.9 | 3579.0 | 3597.3 | 3615.6 | 3625.7 | 3646.0 |
| 20° | 3461.4 | 3465.5 | 3471.6 | 3475.6 | 3485.8 | 3502.0 | 3514.1 | 3530.4 | 3550.7 | 3568.9 | 3589.2 |
| 22.5° | 3404.6 | 3396.6 | 3400.6 | 3404.6 | 3414.8 | 3429.0 | 3443.2 | 3463.4 | 3483.7 | 3502.0 | 3522.3 |
| 25° | 3295.1 | 3297.2 | 3303.3 | 3307.3 | 3319.5 | 3331.7 | 3347.9 | 3372.2 | 3390.4 | 3410.7 | 3433.0 |
| 27.5° | 3147.1 | 3149.2 | 3159.3 | 3159.3 | 3169.4 | 3189.7 | 3199.8 | 3220.1 | 3244.5 | 3264.7 | 3291.1 |
| 30° | 2978.8 | 2982.9 | 2982.9 | 2991.0 | 2997.0 | 3007.2 | 3017.3 | 3037.6 | 3049.8 | 3068.0 | 3104.6 |
| 32.5° | 2824.7 | 2828.7 | 2826.7 | 2824.7 | 2818.6 | 2816.6 | 2814.6 | 2818.6 | 2822.7 | 2828.7 | 2842.9 |
| 35° | 2733.5 | 2723.3 | 2715.2 | 2701.0 | 2684.8 | 2664.5 | 2646.3 | 2621.9 | 2599.6 | 2581.4 | 2561.1 |
| 37.5° | 2646.3 | 2644.2 | 2632.1 | 2611.8 | 2579.3 | 2542.8 | 2500.3 | 2447.5 | 2394.8 | 2338.0 | 2283.3 |
| 40° | 2524.6 | 2518.5 | 2508.4 | 2480.0 | 2443.5 | 2398.9 | 2342.1 | 2277.2 | 2192.0 | 2104.8 | 2015.6 |
| 42.5° | 2317.7 | 2319.8 | 2307.6 | 2285.3 | 2250.9 | 2208.2 | 2149.4 | 2078.5 | 1987.2 | 1883.8 | 1768.2 |
| 45° | 2076.5 | 2076.5 | 2072.4 | 2054.1 | 2029.8 | 1995.3 | 1950.7 | 1891.9 | 1802.7 | 1697.2 | 1573.5 |
| 47.5° | 1825.0 | 1827.0 | 1820.9 | 1816.9 | 1806.7 | 1784.5 | 1752.0 | 1707.4 | 1644.5 | 1543.1 | 1419.4 |
| 50° | 1569.5 | 1569.5 | 1579.6 | 1577.6 | 1577.6 | 1569.5 | 1555.3 | 1528.9 | 1474.2 | 1393.1 | 1277.5 |
| 52.5° | 1314.0 | 1318.1 | 1324.2 | 1332.3 | 1342.4 | 1358.6 | 1342.4 | 1330.2 | 1295.7 | 1232.9 | 1133.5 |
| 55° | 1050.4 | 1054.5 | 1064.6 | 1078.8 | 1091.0 | 1107.2 | 1111.2 | 1111.2 | 1093.0 | 1050.4 | 975.4 |
| 57.5° | 825.3 | 819.2 | 827.4 | 839.5 | 855.7 | 872.0 | 884.1 | 898.3 | 896.3 | 867.9 | 807.1 |
| 60° | 620.5 | 622.5 | 628.6 | 640.8 | 653.0 | 667.1 | 683.4 | 695.5 | 701.6 | 687.4 | 648.9 |
| 62.5° | 452.2 | 452.2 | 460.3 | 472.5 | 478.6 | 498.8 | 509.0 | 515.1 | 521.1 | 519.1 | 494.8 |
| 65° | 316.4 | 320.4 | 324.4 | 330.5 | 336.6 | 348.8 | 354.9 | 367.0 | 371.1 | 373.1 | 354.9 |
| 67.5° | 223.1 | 217.0 | 221.0 | 225.1 | 231.2 | 239.3 | 251.5 | 251.5 | 257.5 | 257.5 | 245.4 |
| 70° | 142.0 | 142.0 | 144.0 | 150.0 | 154.1 | 156.1 | 160.2 | 164.2 | 170.3 | 168.3 | 168.3 |
| 72.5° | 95.3 | 93.3 | 95.3 | 97.3 | 99.4 | 105.4 | 105.4 | 107.5 | 111.5 | 113.6 | 105.4 |
| 75° | 48.7 | 50.7 | 54.7 | 52.7 | 58.8 | 54.7 | 56.8 | 62.9 | 60.8 | 56.8 | 56.8 |
| 77.5° | 40.5 | 40.5 | 40.5 | 38.6 | 42.6 | 42.6 | 40.5 | 44.6 | 42.6 | 42.6 | 40.5 |
| 80° | 28.4 | 30.4 | 28.4 | 26.3 | 28.4 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 24.3 |
| 82.5° | 22.3 | 18.3 | 20.3 | 18.3 | 20.3 | 20.3 | 18.3 | 16.2 | 16.2 | 18.3 | 16.2 |
| 85° | 16.2 | 12.2 | 14.2 | 14.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 10.1 | 10.1 |
| 87.5° | 10.1 | 6.1 | 6.1 | 6.1 | 8.1 | 8.1 | 8.1 | 6.1 | 8.1 | 8.1 | 4.1 |
| 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: P249083

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 |
| 2.5° | 3783.9 | 3781.8 | 3785.9 | 3783.9 | 3783.9 | 3781.8 | 3783.9 | 3781.8 | 3785.9 | 3777.8 | 3779.8 |
| 5° | 3783.9 | 3779.8 | 3781.8 | 3783.9 | 3785.9 | 3781.8 | 3781.8 | 3781.8 | 3785.9 | 3781.8 | 3783.9 |
| 7.5° | 3775.7 | 3773.7 | 3779.8 | 3783.9 | 3781.8 | 3779.8 | 3783.9 | 3781.8 | 3785.9 | 3783.9 | 3787.9 |
| 10° | 3759.5 | 3761.5 | 3765.6 | 3771.7 | 3773.7 | 3775.7 | 3779.8 | 3779.8 | 3785.9 | 3777.8 | 3781.8 |
| 12.5° | 3735.2 | 3743.3 | 3753.4 | 3757.5 | 3765.6 | 3765.6 | 3769.7 | 3771.7 | 3775.7 | 3773.7 | 3779.8 |
| 15° | 3704.8 | 3714.9 | 3727.0 | 3737.2 | 3747.3 | 3753.4 | 3759.5 | 3761.5 | 3767.6 | 3761.5 | 3763.6 |
| 17.5° | 3668.3 | 3680.4 | 3698.7 | 3710.8 | 3727.0 | 3733.2 | 3741.2 | 3745.3 | 3751.4 | 3747.3 | 3749.4 |
| 20° | 3617.5 | 3631.8 | 3652.0 | 3670.3 | 3680.4 | 3694.6 | 3704.8 | 3710.8 | 3714.9 | 3710.8 | 3712.9 |
| 22.5° | 3546.6 | 3566.9 | 3593.2 | 3607.4 | 3627.7 | 3639.9 | 3641.9 | 3656.1 | 3666.2 | 3656.1 | 3660.2 |
| 25° | 3463.4 | 3483.7 | 3504.0 | 3534.4 | 3552.7 | 3566.9 | 3581.1 | 3583.1 | 3593.2 | 3591.2 | 3589.2 |
| 27.5° | 3325.6 | 3351.9 | 3386.4 | 3410.7 | 3435.1 | 3457.4 | 3473.6 | 3477.6 | 3487.8 | 3483.7 | 3485.8 |
| 30° | 3137.0 | 3165.4 | 3197.8 | 3236.3 | 3270.8 | 3293.1 | 3313.4 | 3327.6 | 3337.7 | 3331.7 | 3329.6 |
| 32.5° | 2869.3 | 2897.7 | 2932.2 | 2970.7 | 3011.3 | 3043.7 | 3068.0 | 3086.3 | 3098.5 | 3094.4 | 3084.3 |
| 35° | 2563.1 | 2571.2 | 2593.6 | 2624.0 | 2658.4 | 2692.9 | 2715.2 | 2735.5 | 2749.7 | 2753.7 | 2753.7 |
| 37.5° | 2248.8 | 2222.5 | 2206.2 | 2206.2 | 2226.5 | 2240.7 | 2261.0 | 2273.1 | 2295.5 | 2303.5 | 2309.7 |
| 40° | 1944.6 | 1883.8 | 1827.0 | 1784.5 | 1756.1 | 1754.0 | 1754.0 | 1760.1 | 1780.4 | 1806.7 | 1831.1 |
| 42.5° | 1672.9 | 1575.6 | 1488.4 | 1409.3 | 1352.5 | 1320.1 | 1305.9 | 1307.9 | 1324.2 | 1348.5 | 1389.0 |
| 45° | 1455.9 | 1334.3 | 1224.8 | 1129.5 | 1052.4 | 1001.7 | 977.4 | 975.4 | 987.5 | 1015.9 | 1060.6 |
| 47.5° | 1287.6 | 1157.9 | 1034.2 | 924.7 | 841.5 | 786.8 | 758.4 | 750.3 | 758.4 | 784.7 | 837.5 |
| 50° | 1147.7 | 1013.9 | 886.2 | 772.6 | 683.4 | 626.6 | 600.2 | 590.1 | 600.2 | 622.5 | 675.2 |
| 52.5° | 1017.9 | 880.0 | 760.4 | 650.9 | 555.6 | 506.9 | 478.6 | 472.5 | 478.6 | 504.9 | 547.5 |
| 55° | 867.9 | 750.3 | 632.7 | 523.2 | 440.0 | 391.4 | 369.0 | 363.0 | 369.0 | 393.4 | 438.0 |
| 57.5° | 719.9 | 618.5 | 515.1 | 415.7 | 344.7 | 302.1 | 281.9 | 273.7 | 287.9 | 304.2 | 356.9 |
| 60° | 582.0 | 500.9 | 413.7 | 326.5 | 267.7 | 229.1 | 212.9 | 210.9 | 214.9 | 235.2 | 271.7 |
| 62.5° | 456.3 | 389.3 | 320.4 | 249.4 | 200.7 | 184.5 | 164.2 | 162.2 | 166.3 | 178.4 | 206.9 |
| 65° | 328.5 | 285.9 | 233.2 | 182.5 | 144.0 | 121.7 | 113.6 | 115.6 | 119.6 | 127.8 | 154.1 |
| 67.5° | 229.1 | 198.7 | 162.2 | 127.8 | 99.4 | 89.2 | 81.1 | 79.1 | 81.1 | 95.3 | 109.5 |
| 70° | 154.1 | 135.9 | 109.5 | 97.3 | 69.0 | 54.7 | 56.8 | 50.7 | 58.8 | 58.8 | 71.0 |
| 72.5° | 101.4 | 89.2 | 73.0 | 56.8 | 48.7 | 38.6 | 38.6 | 36.5 | 40.5 | 42.6 | 52.7 |
| 75° | 52.7 | 40.5 | 40.5 | 28.4 | 20.3 | 10.1 | 18.3 | 16.2 | 14.2 | 16.2 | 20.3 |
| 77.5° | 36.5 | 30.4 | 28.4 | 22.3 | 20.3 | 16.2 | 16.2 | 16.2 | 16.2 | 18.3 | 20.3 |
| 80° | 22.3 | 22.3 | 16.2 | 14.2 | 12.2 | 10.1 | 12.2 | 12.2 | 12.2 | 12.2 | 14.2 |
| 82.5° | 14.2 | 12.2 | 12.2 | 10.1 | 10.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 12.2 |
| 85° | 12.2 | 8.1 | 8.1 | 6.1 | 8.1 | 14.2 | 6.1 | 8.1 | 8.1 | 8.1 | 6.1 |
| 87.5° | 4.1 | 6.1 | 6.1 | 6.1 | 4.1 | 2.0 | 4.1 | 6.1 | 6.1 | 10.1 | 8.1 |
| 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: P249083

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 | 3777.8 |
| 2.5° | 3783.9 | 3785.9 | 3785.9 | 3783.9 | 3783.9 | 3779.8 | 3787.9 | 3781.8 | 3783.9 | 3791.9 | 3785.9 |
| 5° | 3787.9 | 3789.9 | 3789.9 | 3787.9 | 3787.9 | 3787.9 | 3789.9 | 3789.9 | 3787.9 | 3785.9 | 3789.9 |
| 7.5° | 3796.0 | 3794.0 | 3794.0 | 3789.9 | 3789.9 | 3785.9 | 3789.9 | 3783.9 | 3787.9 | 3783.9 | 3789.9 |
| 10° | 3785.9 | 3787.9 | 3785.9 | 3783.9 | 3783.9 | 3781.8 | 3781.8 | 3775.7 | 3777.8 | 3771.7 | 3775.7 |
| 12.5° | 3779.8 | 3777.8 | 3777.8 | 3773.7 | 3769.7 | 3765.6 | 3763.6 | 3757.5 | 3757.5 | 3743.3 | 3749.4 |
| 15° | 3763.6 | 3765.6 | 3759.5 | 3751.4 | 3747.3 | 3737.2 | 3733.2 | 3725.0 | 3716.9 | 3706.8 | 3708.8 |
| 17.5° | 3749.4 | 3743.3 | 3735.2 | 3727.0 | 3710.8 | 3702.7 | 3694.6 | 3682.4 | 3678.4 | 3666.2 | 3662.2 |
| 20° | 3706.8 | 3702.7 | 3692.6 | 3678.4 | 3668.3 | 3650.0 | 3641.9 | 3629.7 | 3619.6 | 3607.4 | 3601.3 |
| 22.5° | 3652.0 | 3648.0 | 3635.8 | 3621.6 | 3605.4 | 3597.3 | 3589.2 | 3566.9 | 3556.7 | 3544.6 | 3542.5 |
| 25° | 3583.1 | 3577.0 | 3564.9 | 3548.6 | 3540.5 | 3518.2 | 3510.1 | 3493.9 | 3489.8 | 3477.6 | 3475.6 |
| 27.5° | 3477.6 | 3469.5 | 3455.3 | 3435.1 | 3420.9 | 3406.7 | 3398.6 | 3386.4 | 3382.4 | 3370.2 | 3368.2 |
| 30° | 3319.5 | 3309.3 | 3280.9 | 3272.9 | 3248.5 | 3234.3 | 3234.3 | 3218.1 | 3220.1 | 3212.0 | 3212.0 |
| 32.5° | 3070.1 | 3053.9 | 3031.5 | 3015.3 | 2999.1 | 2991.0 | 2991.0 | 2984.9 | 2989.0 | 2989.0 | 2993.0 |
| 35° | 2739.5 | 2717.3 | 2705.0 | 2694.9 | 2694.9 | 2703.0 | 2727.4 | 2733.5 | 2745.6 | 2755.8 | 2763.9 |
| 37.5° | 2315.7 | 2313.7 | 2327.9 | 2340.1 | 2370.5 | 2405.0 | 2447.5 | 2484.1 | 2518.5 | 2542.8 | 2567.2 |
| 40° | 1857.4 | 1908.2 | 1948.7 | 2005.5 | 2052.1 | 2119.0 | 2196.1 | 2258.9 | 2317.7 | 2360.4 | 2405.0 |
| 42.5° | 1449.8 | 1514.7 | 1599.9 | 1683.0 | 1766.2 | 1857.4 | 1958.9 | 2046.0 | 2123.1 | 2181.9 | 2228.5 |
| 45° | 1129.5 | 1218.7 | 1322.1 | 1427.6 | 1535.0 | 1648.6 | 1754.0 | 1843.3 | 1924.4 | 1985.2 | 2031.8 |
| 47.5° | 910.5 | 1007.8 | 1125.4 | 1241.0 | 1362.7 | 1482.3 | 1599.9 | 1677.0 | 1743.9 | 1792.5 | 1835.2 |
| 50° | 752.3 | 855.7 | 979.4 | 1111.2 | 1232.9 | 1352.5 | 1453.9 | 1528.9 | 1583.7 | 1626.3 | 1652.6 |
| 52.5° | 628.6 | 738.1 | 869.9 | 1001.7 | 1123.4 | 1232.9 | 1324.2 | 1380.9 | 1425.5 | 1455.9 | 1480.3 |
| 55° | 519.1 | 624.6 | 748.3 | 872.0 | 991.6 | 1095.0 | 1170.0 | 1212.6 | 1247.1 | 1265.3 | 1279.5 |
| 57.5° | 423.8 | 521.1 | 634.7 | 748.3 | 851.7 | 936.9 | 995.7 | 1038.2 | 1054.5 | 1068.6 | 1066.6 |
| 60° | 332.6 | 423.8 | 527.2 | 624.6 | 713.8 | 782.7 | 825.3 | 849.6 | 861.8 | 867.9 | 863.8 |
| 62.5° | 261.6 | 344.7 | 423.8 | 509.0 | 573.9 | 632.7 | 673.2 | 673.2 | 679.3 | 681.3 | 687.4 |
| 65° | 194.6 | 257.5 | 326.5 | 389.3 | 442.0 | 480.6 | 502.9 | 509.0 | 517.1 | 515.1 | 511.0 |
| 67.5° | 144.0 | 190.6 | 241.3 | 287.9 | 324.4 | 348.8 | 365.0 | 379.2 | 377.2 | 373.1 | 371.1 |
| 70° | 99.4 | 129.8 | 174.4 | 202.8 | 229.1 | 253.5 | 257.5 | 259.5 | 261.6 | 263.6 | 259.5 |
| 72.5° | 69.0 | 91.2 | 115.6 | 139.9 | 156.1 | 166.3 | 176.4 | 178.4 | 178.4 | 178.4 | 176.4 |
| 75° | 34.5 | 46.6 | 69.0 | 79.1 | 93.3 | 97.3 | 105.4 | 105.4 | 111.5 | 103.4 | 101.4 |
| 77.5° | 30.4 | 36.5 | 48.7 | 56.8 | 62.9 | 69.0 | 71.0 | 77.1 | 75.0 | 71.0 | 73.0 |
| 80° | 18.3 | 22.3 | 30.4 | 34.5 | 42.6 | 44.6 | 46.6 | 48.7 | 46.6 | 48.7 | 48.7 |
| 82.5° | 14.2 | 16.2 | 20.3 | 20.3 | 26.3 | 26.3 | 28.4 | 28.4 | 30.4 | 30.4 | 30.4 |
| 85° | 8.1 | 14.2 | 12.2 | 24.3 | 16.2 | 16.2 | 20.3 | 24.3 | 20.3 | 20.3 | 24.3 |
| 87.5° | 8.1 | 8.1 | 6.1 | 8.1 | 8.1 | 8.1 | 10.1 | 12.2 | 12.2 | 14.2 | 12.2 |
| 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: P249083

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3777.8 | 3777.8 | 3777.8 | 3777.8 |
| 2.5° | 3783.9 | 3787.9 | 3781.8 | 3779.8 |
| 5° | 3789.9 | 3789.9 | 3785.9 | 3785.9 |
| 7.5° | 3789.9 | 3789.9 | 3783.9 | 3779.8 |
| 10° | 3773.7 | 3773.7 | 3767.6 | 3763.6 |
| 12.5° | 3743.3 | 3743.3 | 3741.2 | 3735.2 |
| 15° | 3704.8 | 3704.8 | 3696.6 | 3690.6 |
| 17.5° | 3652.0 | 3656.1 | 3646.0 | 3646.0 |
| 20° | 3595.3 | 3593.2 | 3585.1 | 3581.1 |
| 22.5° | 3536.5 | 3532.4 | 3530.4 | 3518.2 |
| 25° | 3473.6 | 3469.5 | 3463.4 | 3457.4 |
| 27.5° | 3366.1 | 3364.1 | 3358.0 | 3349.9 |
| 30° | 3201.9 | 3199.8 | 3191.7 | 3191.7 |
| 32.5° | 2989.0 | 2986.9 | 2978.8 | 2980.9 |
| 35° | 2767.9 | 2776.0 | 2772.0 | 2763.9 |
| 37.5° | 2583.4 | 2589.5 | 2593.6 | 2589.5 |
| 40° | 2429.3 | 2447.5 | 2449.6 | 2453.6 |
| 42.5° | 2265.0 | 2289.4 | 2297.5 | 2301.5 |
| 45° | 2068.3 | 2090.6 | 2108.9 | 2104.8 |
| 47.5° | 1867.6 | 1883.8 | 1900.0 | 1887.9 |
| 50° | 1675.0 | 1685.1 | 1691.2 | 1691.2 |
| 52.5° | 1492.5 | 1492.5 | 1490.4 | 1492.5 |
| 55° | 1283.6 | 1283.6 | 1275.5 | 1279.5 |
| 57.5° | 1064.6 | 1068.6 | 1062.5 | 1052.4 |
| 60° | 861.8 | 851.7 | 847.6 | 841.5 |
| 62.5° | 671.2 | 671.2 | 657.0 | 675.2 |
| 65° | 502.9 | 496.8 | 490.7 | 488.7 |
| 67.5° | 365.0 | 363.0 | 356.9 | 354.9 |
| 70° | 257.5 | 249.4 | 247.4 | 243.3 |
| 72.5° | 172.4 | 172.4 | 168.3 | 168.3 |
| 75° | 105.4 | 95.3 | 93.3 | 95.3 |
| 77.5° | 73.0 | 71.0 | 71.0 | 69.0 |
| 80° | 48.7 | 46.6 | 50.7 | 44.6 |
| 82.5° | 30.4 | 32.4 | 30.4 | 32.4 |
| 85° | 20.3 | 24.3 | 22.3 | 22.3 |
| 87.5° | 12.2 | 12.2 | 12.2 | 12.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)