

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: P249330

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249330
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 EC8B120840 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12142.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

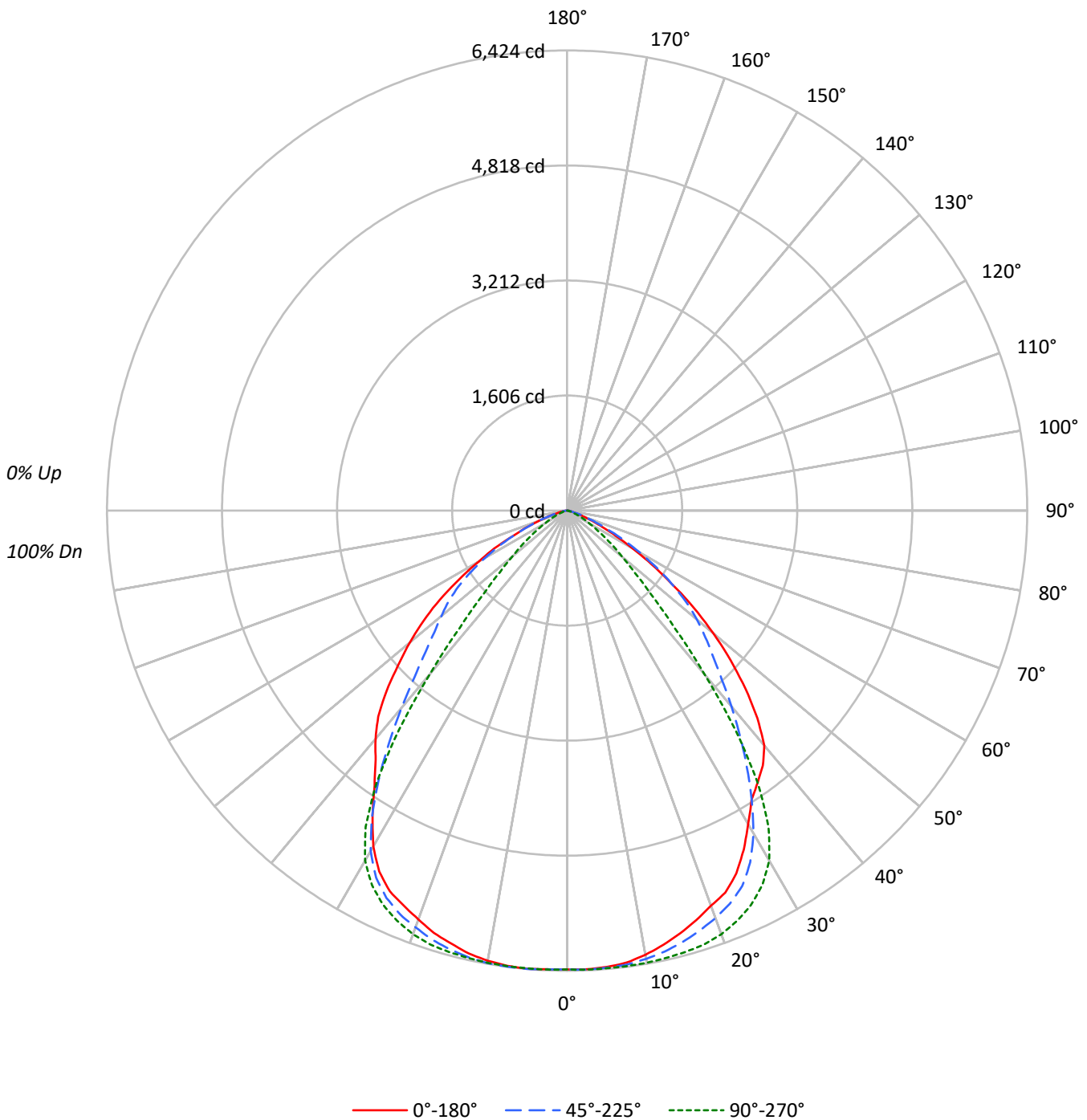
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249330

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P249330

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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° | 197550 | 197550 | 197550 |
| 5° | 197982 | 198518 | 198732 |
| 10° | 197150 | 200704 | 199843 |
| 15° | 194967 | 203637 | 199797 |
| 20° | 192626 | 206504 | 199281 |
| 25° | 190123 | 206741 | 199487 |
| 30° | 179867 | 200929 | 192725 |
| 35° | 174500 | 174624 | 176438 |
| 40° | 172335 | 120150 | 167493 |
| 45° | 153561 | 72130 | 155658 |
| 50° | 127684 | 48006 | 137581 |
| 55° | 95765 | 33096 | 116652 |
| 60° | 64898 | 22054 | 88013 |
| 65° | 39146 | 14301 | 60466 |
| 70° | 21701 | 7754 | 37200 |
| 75° | 9829 | 3276 | 19253 |
| 80° | 8542 | 3658 | 13425 |
| 85° | 9730 | 4847 | 13409 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 611.4 | 5.0 |
| 10°-20° | 1775.6 | 14.6 |
| 20°-30° | 2695.0 | 22.2 |
| 30°-40° | 2830.6 | 23.3 |
| 40°-50° | 2122.2 | 17.5 |
| 50°-60° | 1361.6 | 11.2 |
| 60°-70° | 582.5 | 4.8 |
| 70°-80° | 137.6 | 1.1 |
| 80°-90° | 25.6 | 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° | 5082.0 | 41.9 |
| 0°-40° | 7912.5 | 65.2 |
| 0°-60° | 11396.3 | 93.9 |
| 0°-90° | 12142.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12142.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 6406 | 6406 | 6406 | 6406 | 6406 | |
| 5° | 6396 | 6406 | 6413 | 6424 | 6420 | 608 |
| 15° | 6107 | 6234 | 6379 | 6338 | 6258 | 1723 |
| 25° | 5588 | 5784 | 6076 | 5966 | 5863 | 2553 |
| 35° | 4636 | 4378 | 4639 | 4584 | 4687 | 2909 |
| 45° | 3521 | 2878 | 1654 | 2796 | 3569 | 2697 |
| 55° | 1781 | 1781 | 616 | 1857 | 2170 | 1616 |
| 65° | 536 | 633 | 196 | 815 | 829 | 573 |
| 75° | 82 | 96 | 28 | 165 | 162 | 120 |
| 85° | 28 | 17 | 14 | 28 | 38 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249330

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 |
| 2.5° | 6409.8 | 6416.7 | 6413.3 | 6413.3 | 6409.8 | 6413.3 | 6413.3 | 6420.2 | 6420.2 | 6413.3 | 6409.8 |
| 5° | 6396.0 | 6402.9 | 6402.9 | 6396.0 | 6396.0 | 6413.3 | 6402.9 | 6409.8 | 6409.8 | 6406.4 | 6406.4 |
| 7.5° | 6365.1 | 6365.1 | 6378.8 | 6368.6 | 6368.6 | 6378.8 | 6375.4 | 6382.3 | 6389.2 | 6392.6 | 6392.6 |
| 10° | 6296.3 | 6303.2 | 6306.7 | 6306.7 | 6310.1 | 6320.4 | 6327.3 | 6341.1 | 6347.9 | 6354.8 | 6358.2 |
| 12.5° | 6210.4 | 6220.7 | 6224.1 | 6220.7 | 6231.0 | 6244.7 | 6262.0 | 6279.1 | 6289.5 | 6303.2 | 6313.5 |
| 15° | 6107.2 | 6107.2 | 6114.1 | 6124.4 | 6131.3 | 6151.9 | 6169.1 | 6189.7 | 6217.2 | 6234.5 | 6251.6 |
| 17.5° | 5993.7 | 6000.6 | 6010.9 | 6010.9 | 6024.7 | 6059.0 | 6069.4 | 6100.3 | 6131.3 | 6148.5 | 6182.9 |
| 20° | 5870.0 | 5876.8 | 5887.1 | 5894.0 | 5911.2 | 5938.7 | 5959.3 | 5986.8 | 6021.2 | 6052.2 | 6086.5 |
| 22.5° | 5773.6 | 5759.9 | 5766.7 | 5773.6 | 5790.9 | 5814.9 | 5839.0 | 5873.3 | 5907.7 | 5938.7 | 5973.1 |
| 25° | 5587.9 | 5591.4 | 5601.7 | 5608.5 | 5629.2 | 5649.9 | 5677.4 | 5718.6 | 5749.6 | 5784.0 | 5821.8 |
| 27.5° | 5336.9 | 5340.4 | 5357.5 | 5357.5 | 5374.7 | 5409.1 | 5426.3 | 5460.7 | 5502.0 | 5536.3 | 5581.1 |
| 30° | 5051.5 | 5058.3 | 5058.3 | 5072.1 | 5082.4 | 5099.7 | 5116.8 | 5151.2 | 5171.9 | 5202.8 | 5264.7 |
| 32.5° | 4790.2 | 4797.0 | 4793.6 | 4790.2 | 4779.8 | 4776.4 | 4772.9 | 4779.8 | 4786.7 | 4797.0 | 4821.1 |
| 35° | 4635.5 | 4618.2 | 4604.5 | 4580.4 | 4552.9 | 4518.5 | 4487.5 | 4446.3 | 4408.4 | 4377.5 | 4343.2 |
| 37.5° | 4487.5 | 4484.1 | 4463.5 | 4429.1 | 4374.0 | 4312.2 | 4240.0 | 4150.6 | 4061.1 | 3964.9 | 3872.1 |
| 40° | 4281.2 | 4270.9 | 4253.7 | 4205.6 | 4143.7 | 4068.0 | 3971.8 | 3861.7 | 3717.2 | 3569.4 | 3418.1 |
| 42.5° | 3930.4 | 3933.9 | 3913.3 | 3875.4 | 3817.0 | 3744.7 | 3645.0 | 3524.7 | 3370.0 | 3194.6 | 2998.6 |
| 45° | 3521.3 | 3521.3 | 3514.4 | 3483.4 | 3442.2 | 3383.7 | 3308.1 | 3208.4 | 3057.1 | 2878.2 | 2668.4 |
| 47.5° | 3094.8 | 3098.3 | 3088.0 | 3081.1 | 3063.9 | 3026.1 | 2971.1 | 2895.4 | 2788.8 | 2616.8 | 2407.1 |
| 50° | 2661.6 | 2661.6 | 2678.8 | 2675.3 | 2675.3 | 2661.6 | 2637.5 | 2592.8 | 2500.0 | 2362.4 | 2166.4 |
| 52.5° | 2228.3 | 2235.2 | 2245.5 | 2259.3 | 2276.4 | 2303.9 | 2276.4 | 2255.8 | 2197.3 | 2090.7 | 1922.3 |
| 55° | 1781.3 | 1788.1 | 1805.3 | 1829.4 | 1850.1 | 1877.6 | 1884.4 | 1884.4 | 1853.4 | 1781.3 | 1654.0 |
| 57.5° | 1399.6 | 1389.2 | 1403.0 | 1423.7 | 1451.2 | 1478.7 | 1499.3 | 1523.4 | 1519.9 | 1471.8 | 1368.6 |
| 60° | 1052.3 | 1055.7 | 1066.0 | 1086.7 | 1107.3 | 1131.4 | 1158.9 | 1179.5 | 1189.8 | 1165.8 | 1100.4 |
| 62.5° | 766.9 | 766.9 | 780.6 | 801.2 | 811.5 | 845.9 | 863.1 | 873.5 | 883.7 | 880.3 | 839.0 |
| 65° | 536.5 | 543.3 | 550.2 | 560.5 | 570.8 | 591.4 | 601.8 | 622.4 | 629.3 | 632.7 | 601.8 |
| 67.5° | 378.3 | 367.9 | 374.8 | 381.7 | 392.0 | 405.8 | 426.4 | 426.4 | 436.7 | 436.7 | 416.1 |
| 70° | 240.7 | 240.7 | 244.2 | 254.4 | 261.3 | 264.8 | 271.7 | 278.5 | 288.9 | 285.4 | 285.4 |
| 72.5° | 161.6 | 158.2 | 161.6 | 165.1 | 168.5 | 178.8 | 178.8 | 182.2 | 189.1 | 192.6 | 178.8 |
| 75° | 82.5 | 86.0 | 92.8 | 89.4 | 99.7 | 92.8 | 96.3 | 106.6 | 103.2 | 96.3 | 96.3 |
| 77.5° | 68.7 | 68.7 | 68.7 | 65.4 | 72.2 | 72.2 | 68.7 | 75.6 | 72.2 | 72.2 | 68.7 |
| 80° | 48.1 | 51.6 | 48.1 | 44.7 | 48.1 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 41.2 |
| 82.5° | 37.9 | 31.0 | 34.4 | 31.0 | 34.4 | 34.4 | 31.0 | 27.5 | 27.5 | 31.0 | 27.5 |
| 85° | 27.5 | 20.6 | 24.1 | 24.1 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 17.2 | 17.2 |
| 87.5° | 17.2 | 10.3 | 10.3 | 10.3 | 13.7 | 13.7 | 13.7 | 10.3 | 13.7 | 13.7 | 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: P249330

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 |
| 2.5° | 6416.7 | 6413.3 | 6420.2 | 6416.7 | 6416.7 | 6413.3 | 6416.7 | 6413.3 | 6420.2 | 6406.4 | 6409.8 |
| 5° | 6416.7 | 6409.8 | 6413.3 | 6416.7 | 6420.2 | 6413.3 | 6413.3 | 6413.3 | 6420.2 | 6413.3 | 6416.7 |
| 7.5° | 6402.9 | 6399.5 | 6409.8 | 6416.7 | 6413.3 | 6409.8 | 6416.7 | 6413.3 | 6420.2 | 6416.7 | 6423.5 |
| 10° | 6375.4 | 6378.8 | 6385.7 | 6396.0 | 6399.5 | 6402.9 | 6409.8 | 6409.8 | 6420.2 | 6406.4 | 6413.3 |
| 12.5° | 6334.2 | 6347.9 | 6365.1 | 6371.9 | 6385.7 | 6385.7 | 6392.6 | 6396.0 | 6402.9 | 6399.5 | 6409.8 |
| 15° | 6282.6 | 6299.8 | 6320.4 | 6337.6 | 6354.8 | 6365.1 | 6375.4 | 6378.8 | 6389.2 | 6378.8 | 6382.3 |
| 17.5° | 6220.7 | 6241.3 | 6272.2 | 6292.9 | 6320.4 | 6330.7 | 6344.4 | 6351.3 | 6361.7 | 6354.8 | 6358.2 |
| 20° | 6134.7 | 6158.8 | 6193.1 | 6224.1 | 6241.3 | 6265.3 | 6282.6 | 6292.9 | 6299.8 | 6292.9 | 6296.3 |
| 22.5° | 6014.3 | 6048.8 | 6093.4 | 6117.5 | 6151.9 | 6172.5 | 6176.0 | 6200.0 | 6217.2 | 6200.0 | 6206.9 |
| 25° | 5873.3 | 5907.7 | 5942.2 | 5993.7 | 6024.7 | 6048.8 | 6072.8 | 6076.3 | 6093.4 | 6090.0 | 6086.5 |
| 27.5° | 5639.5 | 5684.3 | 5742.7 | 5784.0 | 5825.2 | 5863.1 | 5890.6 | 5897.4 | 5914.6 | 5907.7 | 5911.2 |
| 30° | 5319.7 | 5367.9 | 5422.9 | 5488.2 | 5546.7 | 5584.5 | 5618.9 | 5643.0 | 5660.1 | 5649.9 | 5646.4 |
| 32.5° | 4865.8 | 4914.0 | 4972.4 | 5037.7 | 5106.6 | 5161.5 | 5202.8 | 5233.8 | 5254.4 | 5247.5 | 5230.3 |
| 35° | 4346.6 | 4360.3 | 4398.2 | 4449.8 | 4508.2 | 4566.6 | 4604.5 | 4638.8 | 4662.9 | 4669.8 | 4669.8 |
| 37.5° | 3813.6 | 3768.9 | 3741.4 | 3741.4 | 3775.7 | 3799.8 | 3834.2 | 3854.8 | 3892.7 | 3906.4 | 3916.7 |
| 40° | 3297.7 | 3194.6 | 3098.3 | 3026.1 | 2978.0 | 2974.5 | 2974.5 | 2984.8 | 3019.2 | 3063.9 | 3105.2 |
| 42.5° | 2837.0 | 2671.9 | 2524.0 | 2389.9 | 2293.7 | 2238.6 | 2214.6 | 2218.0 | 2245.5 | 2286.8 | 2355.5 |
| 45° | 2469.0 | 2262.7 | 2077.0 | 1915.4 | 1784.7 | 1698.7 | 1657.5 | 1654.0 | 1674.6 | 1722.8 | 1798.5 |
| 47.5° | 2183.6 | 1963.5 | 1753.7 | 1568.0 | 1427.1 | 1334.2 | 1286.1 | 1272.4 | 1286.1 | 1330.8 | 1420.2 |
| 50° | 1946.3 | 1719.4 | 1502.7 | 1310.1 | 1158.9 | 1062.6 | 1017.8 | 1000.7 | 1017.8 | 1055.7 | 1145.1 |
| 52.5° | 1726.2 | 1492.4 | 1289.5 | 1103.8 | 942.2 | 859.7 | 811.5 | 801.2 | 811.5 | 856.2 | 928.5 |
| 55° | 1471.8 | 1272.4 | 1072.9 | 887.2 | 746.2 | 663.7 | 625.8 | 615.6 | 625.8 | 667.1 | 742.8 |
| 57.5° | 1220.8 | 1048.8 | 873.5 | 704.9 | 584.6 | 512.3 | 478.0 | 464.2 | 488.3 | 515.8 | 605.2 |
| 60° | 986.9 | 849.4 | 701.5 | 553.6 | 453.9 | 388.6 | 361.0 | 357.6 | 364.5 | 398.9 | 460.8 |
| 62.5° | 773.8 | 660.2 | 543.3 | 423.0 | 340.4 | 312.9 | 278.5 | 275.1 | 282.0 | 302.6 | 350.8 |
| 65° | 557.1 | 484.9 | 395.5 | 309.5 | 244.2 | 206.3 | 192.6 | 196.0 | 202.9 | 216.7 | 261.3 |
| 67.5° | 388.6 | 337.0 | 275.1 | 216.7 | 168.5 | 151.3 | 137.6 | 134.1 | 137.6 | 161.6 | 185.7 |
| 70° | 261.3 | 230.4 | 185.7 | 165.1 | 117.0 | 92.8 | 96.3 | 86.0 | 99.7 | 99.7 | 120.3 |
| 72.5° | 171.9 | 151.3 | 123.8 | 96.3 | 82.5 | 65.4 | 65.4 | 61.9 | 68.7 | 72.2 | 89.4 |
| 75° | 89.4 | 68.7 | 68.7 | 48.1 | 34.4 | 17.2 | 31.0 | 27.5 | 24.1 | 27.5 | 34.4 |
| 77.5° | 61.9 | 51.6 | 48.1 | 37.9 | 34.4 | 27.5 | 27.5 | 27.5 | 27.5 | 31.0 | 34.4 |
| 80° | 37.9 | 37.9 | 27.5 | 24.1 | 20.6 | 17.2 | 20.6 | 20.6 | 20.6 | 20.6 | 24.1 |
| 82.5° | 24.1 | 20.6 | 20.6 | 17.2 | 17.2 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 20.6 |
| 85° | 20.6 | 13.7 | 13.7 | 10.3 | 13.7 | 24.1 | 10.3 | 13.7 | 13.7 | 13.7 | 10.3 |
| 87.5° | 6.9 | 10.3 | 10.3 | 10.3 | 6.9 | 3.4 | 6.9 | 10.3 | 10.3 | 17.2 | 13.7 |
| 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: P249330

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 | 6406.4 |
| 2.5° | 6416.7 | 6420.2 | 6420.2 | 6416.7 | 6416.7 | 6409.8 | 6423.5 | 6413.3 | 6416.7 | 6430.4 | 6420.2 |
| 5° | 6423.5 | 6427.0 | 6427.0 | 6423.5 | 6423.5 | 6423.5 | 6427.0 | 6427.0 | 6423.5 | 6420.2 | 6427.0 |
| 7.5° | 6437.3 | 6433.9 | 6433.9 | 6427.0 | 6427.0 | 6420.2 | 6427.0 | 6416.7 | 6423.5 | 6416.7 | 6427.0 |
| 10° | 6420.2 | 6423.5 | 6420.2 | 6416.7 | 6416.7 | 6413.3 | 6413.3 | 6402.9 | 6406.4 | 6396.0 | 6402.9 |
| 12.5° | 6409.8 | 6406.4 | 6406.4 | 6399.5 | 6392.6 | 6385.7 | 6382.3 | 6371.9 | 6371.9 | 6347.9 | 6358.2 |
| 15° | 6382.3 | 6385.7 | 6375.4 | 6361.7 | 6354.8 | 6337.6 | 6330.7 | 6316.9 | 6303.2 | 6286.0 | 6289.5 |
| 17.5° | 6358.2 | 6347.9 | 6334.2 | 6320.4 | 6292.9 | 6279.1 | 6265.3 | 6244.7 | 6237.8 | 6217.2 | 6210.4 |
| 20° | 6286.0 | 6279.1 | 6262.0 | 6237.8 | 6220.7 | 6189.7 | 6176.0 | 6155.4 | 6138.1 | 6117.5 | 6107.2 |
| 22.5° | 6193.1 | 6186.2 | 6165.6 | 6141.6 | 6114.1 | 6100.3 | 6086.5 | 6048.8 | 6031.5 | 6010.9 | 6007.4 |
| 25° | 6076.3 | 6065.9 | 6045.3 | 6017.8 | 6004.0 | 5966.2 | 5952.4 | 5924.9 | 5918.1 | 5897.4 | 5894.0 |
| 27.5° | 5897.4 | 5883.7 | 5859.6 | 5825.2 | 5801.1 | 5777.1 | 5763.4 | 5742.7 | 5735.8 | 5715.1 | 5711.8 |
| 30° | 5629.2 | 5612.0 | 5563.9 | 5550.1 | 5508.8 | 5484.8 | 5484.8 | 5457.3 | 5460.7 | 5447.0 | 5447.0 |
| 32.5° | 5206.3 | 5178.8 | 5140.9 | 5113.4 | 5085.9 | 5072.1 | 5072.1 | 5061.8 | 5068.7 | 5068.7 | 5075.6 |
| 35° | 4645.7 | 4607.9 | 4587.2 | 4570.1 | 4570.1 | 4583.8 | 4625.1 | 4635.5 | 4656.1 | 4673.2 | 4687.0 |
| 37.5° | 3927.0 | 3923.6 | 3947.7 | 3968.3 | 4019.9 | 4078.4 | 4150.6 | 4212.5 | 4270.9 | 4312.2 | 4353.4 |
| 40° | 3149.9 | 3235.9 | 3304.6 | 3400.9 | 3480.0 | 3593.5 | 3724.1 | 3830.7 | 3930.4 | 4002.7 | 4078.4 |
| 42.5° | 2458.7 | 2568.7 | 2713.2 | 2854.1 | 2995.1 | 3149.9 | 3321.9 | 3469.7 | 3600.4 | 3700.1 | 3779.2 |
| 45° | 1915.4 | 2066.7 | 2242.1 | 2420.9 | 2603.1 | 2795.7 | 2974.5 | 3125.8 | 3263.4 | 3366.5 | 3445.6 |
| 47.5° | 1544.0 | 1709.1 | 1908.5 | 2104.5 | 2310.8 | 2513.7 | 2713.2 | 2843.9 | 2957.3 | 3039.8 | 3112.1 |
| 50° | 1275.7 | 1451.2 | 1660.9 | 1884.4 | 2090.7 | 2293.7 | 2465.6 | 2592.8 | 2685.7 | 2757.9 | 2802.5 |
| 52.5° | 1066.0 | 1251.7 | 1475.2 | 1698.7 | 1905.0 | 2090.7 | 2245.5 | 2341.8 | 2417.4 | 2469.0 | 2510.2 |
| 55° | 880.3 | 1059.2 | 1268.9 | 1478.7 | 1681.5 | 1856.9 | 1984.1 | 2056.4 | 2114.8 | 2145.7 | 2169.8 |
| 57.5° | 718.7 | 883.7 | 1076.3 | 1268.9 | 1444.3 | 1588.7 | 1688.4 | 1760.6 | 1788.1 | 1812.2 | 1808.8 |
| 60° | 564.0 | 718.7 | 894.1 | 1059.2 | 1210.4 | 1327.3 | 1399.6 | 1440.8 | 1461.4 | 1471.8 | 1464.9 |
| 62.5° | 443.6 | 584.6 | 718.7 | 863.1 | 973.2 | 1072.9 | 1141.7 | 1141.7 | 1152.0 | 1155.4 | 1165.8 |
| 65° | 330.1 | 436.7 | 553.6 | 660.2 | 749.6 | 815.0 | 852.8 | 863.1 | 876.9 | 873.5 | 866.6 |
| 67.5° | 244.2 | 323.3 | 409.2 | 488.3 | 550.2 | 591.4 | 618.9 | 643.1 | 639.6 | 632.7 | 629.3 |
| 70° | 168.5 | 220.1 | 295.8 | 343.9 | 388.6 | 429.9 | 436.7 | 440.1 | 443.6 | 447.0 | 440.1 |
| 72.5° | 117.0 | 154.7 | 196.0 | 237.3 | 264.8 | 282.0 | 299.2 | 302.6 | 302.6 | 302.6 | 299.2 |
| 75° | 58.5 | 79.1 | 117.0 | 134.1 | 158.2 | 165.1 | 178.8 | 178.8 | 189.1 | 175.3 | 171.9 |
| 77.5° | 51.6 | 61.9 | 82.5 | 96.3 | 106.6 | 117.0 | 120.3 | 130.7 | 127.2 | 120.3 | 123.8 |
| 80° | 31.0 | 37.9 | 51.6 | 58.5 | 72.2 | 75.6 | 79.1 | 82.5 | 79.1 | 82.5 | 82.5 |
| 82.5° | 24.1 | 27.5 | 34.4 | 34.4 | 44.7 | 44.7 | 48.1 | 48.1 | 51.6 | 51.6 | 51.6 |
| 85° | 13.7 | 24.1 | 20.6 | 41.2 | 27.5 | 27.5 | 34.4 | 41.2 | 34.4 | 34.4 | 41.2 |
| 87.5° | 13.7 | 13.7 | 10.3 | 13.7 | 13.7 | 13.7 | 17.2 | 20.6 | 20.6 | 24.1 | 20.6 |
| 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: P249330

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 6406.4 | 6406.4 | 6406.4 | 6406.4 |
| 2.5° | 6416.7 | 6423.5 | 6413.3 | 6409.8 |
| 5° | 6427.0 | 6427.0 | 6420.2 | 6420.2 |
| 7.5° | 6427.0 | 6427.0 | 6416.7 | 6409.8 |
| 10° | 6399.5 | 6399.5 | 6389.2 | 6382.3 |
| 12.5° | 6347.9 | 6347.9 | 6344.4 | 6334.2 |
| 15° | 6282.6 | 6282.6 | 6268.8 | 6258.5 |
| 17.5° | 6193.1 | 6200.0 | 6182.9 | 6182.9 |
| 20° | 6096.9 | 6093.4 | 6079.7 | 6072.8 |
| 22.5° | 5997.2 | 5990.3 | 5986.8 | 5966.2 |
| 25° | 5890.6 | 5883.7 | 5873.3 | 5863.1 |
| 27.5° | 5708.3 | 5704.9 | 5694.5 | 5680.8 |
| 30° | 5429.7 | 5426.3 | 5412.6 | 5412.6 |
| 32.5° | 5068.7 | 5065.2 | 5051.5 | 5055.0 |
| 35° | 4693.9 | 4707.6 | 4700.8 | 4687.0 |
| 37.5° | 4380.9 | 4391.3 | 4398.2 | 4391.3 |
| 40° | 4119.6 | 4150.6 | 4154.0 | 4160.9 |
| 42.5° | 3841.1 | 3882.3 | 3896.1 | 3902.9 |
| 45° | 3507.5 | 3545.3 | 3576.3 | 3569.4 |
| 47.5° | 3167.0 | 3194.6 | 3222.1 | 3201.5 |
| 50° | 2840.4 | 2857.6 | 2867.9 | 2867.9 |
| 52.5° | 2530.9 | 2530.9 | 2527.5 | 2530.9 |
| 55° | 2176.7 | 2176.7 | 2163.0 | 2169.8 |
| 57.5° | 1805.3 | 1812.2 | 1801.9 | 1784.7 |
| 60° | 1461.4 | 1444.3 | 1437.4 | 1427.1 |
| 62.5° | 1138.2 | 1138.2 | 1114.2 | 1145.1 |
| 65° | 852.8 | 842.5 | 832.1 | 828.7 |
| 67.5° | 618.9 | 615.6 | 605.2 | 601.8 |
| 70° | 436.7 | 423.0 | 419.5 | 412.6 |
| 72.5° | 292.3 | 292.3 | 285.4 | 285.4 |
| 75° | 178.8 | 161.6 | 158.2 | 161.6 |
| 77.5° | 123.8 | 120.3 | 120.3 | 117.0 |
| 80° | 82.5 | 79.1 | 86.0 | 75.6 |
| 82.5° | 51.6 | 55.0 | 51.6 | 55.0 |
| 85° | 34.4 | 41.2 | 37.9 | 37.9 |
| 87.5° | 20.6 | 20.6 | 20.6 | 20.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)