

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: P248392

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8448.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

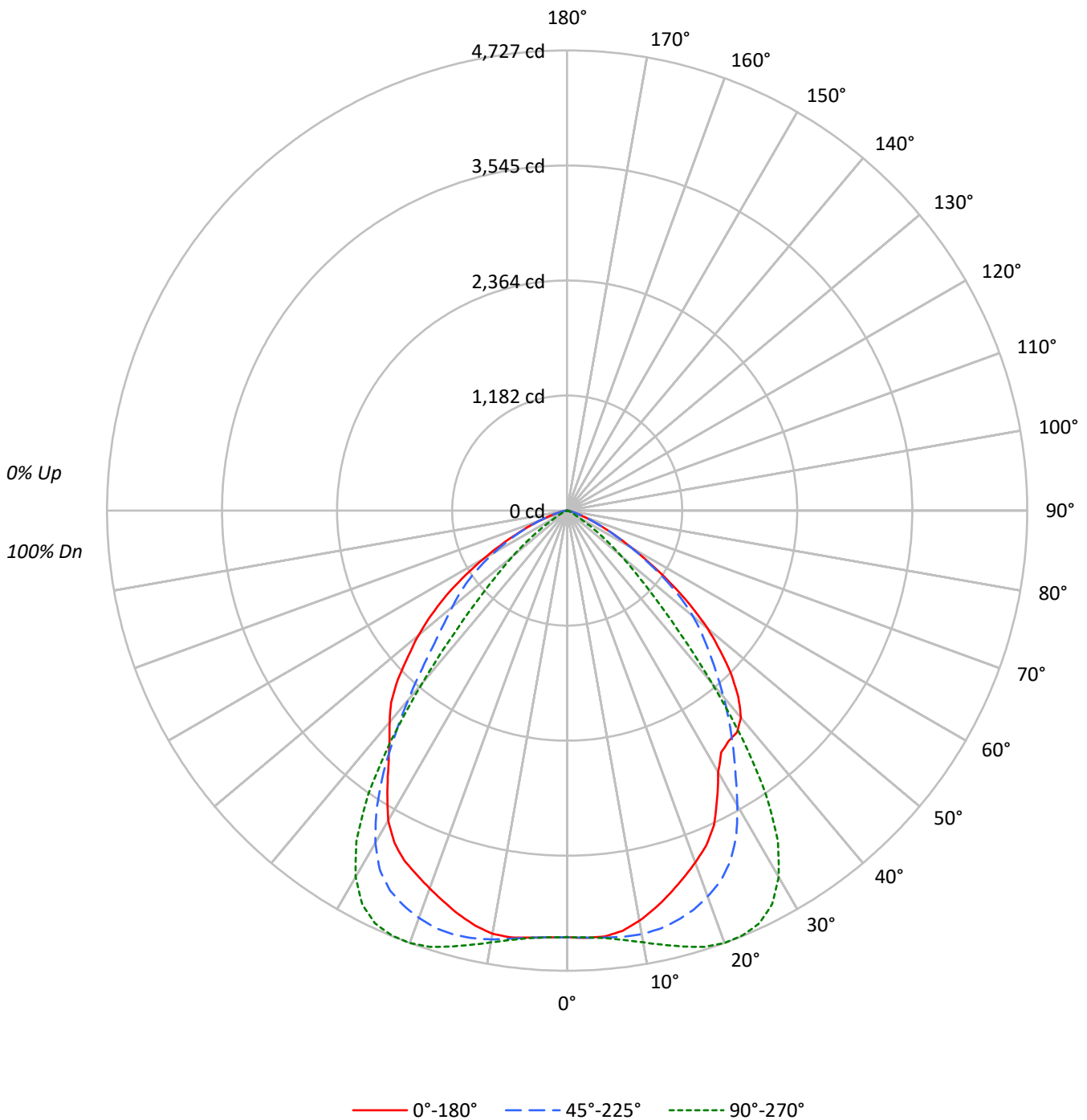
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248392

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P248392

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBDW0LI

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 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | | 79 | | | |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 63 | 59 | 68 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 66 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 57 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | 50 | | | |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 44 | 39 | 48 | 43 | 39 | 38 | | | | | 38 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 135140 | 135140 | 135140 |
| 5° | 135947 | 136449 | 136306 |
| 10° | 133950 | 141014 | 138246 |
| 15° | 130033 | 148003 | 137162 |
| 20° | 126257 | 155111 | 135494 |
| 25° | 121412 | 159087 | 134865 |
| 30° | 110491 | 154725 | 130869 |
| 35° | 108844 | 134066 | 120405 |
| 40° | 111805 | 92983 | 114144 |
| 45° | 104082 | 56199 | 107326 |
| 50° | 90280 | 34704 | 95639 |
| 55° | 69282 | 18134 | 81164 |
| 60° | 47198 | 7314 | 61259 |
| 65° | 29361 | 3736 | 42261 |
| 70° | 15940 | 2308 | 25795 |
| 75° | 8316 | 1108 | 15250 |
| 80° | 3711 | 1243 | 8257 |
| 85° | 2477 | 814 | 7395 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 421.5 | 5.0 |
| 10°-20° | 1248.5 | 14.8 |
| 20°-30° | 1904.8 | 22.5 |
| 30°-40° | 1987.6 | 23.5 |
| 40°-50° | 1493.0 | 17.7 |
| 50°-60° | 918.6 | 10.9 |
| 60°-70° | 373.8 | 4.4 |
| 70°-80° | 88.1 | 1.0 |
| 80°-90° | 12.1 | 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° | 3574.7 | 42.3 |
| 0°-40° | 5562.4 | 65.8 |
| 0°-60° | 7974.0 | 94.4 |
| 0°-90° | 8448.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8448.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4382 | 4382 | 4382 | 4382 | 4382 | |
| 5° | 4392 | 4404 | 4408 | 4404 | 4404 | 416 |
| 15° | 4073 | 4359 | 4636 | 4508 | 4296 | 1147 |
| 25° | 3568 | 3968 | 4676 | 4306 | 3964 | 1622 |
| 35° | 2891 | 2973 | 3561 | 3292 | 3198 | 1826 |
| 45° | 2387 | 2066 | 1289 | 1924 | 2461 | 1821 |
| 55° | 1289 | 1224 | 337 | 1224 | 1510 | 1158 |
| 65° | 402 | 407 | 51 | 547 | 579 | 420 |
| 75° | 70 | 70 | 9 | 123 | 128 | 84 |
| 85° | 7 | 7 | 2 | 16 | 21 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248392

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 |
| 2.5° | 4394.2 | 4387.2 | 4394.2 | 4394.2 | 4396.5 | 4391.9 | 4394.2 | 4396.5 | 4391.9 | 4391.9 | 4391.9 |
| 5° | 4391.9 | 4387.2 | 4391.9 | 4389.5 | 4394.2 | 4394.2 | 4398.9 | 4398.9 | 4403.5 | 4403.5 | 4410.5 |
| 7.5° | 4354.6 | 4345.4 | 4354.6 | 4361.6 | 4366.2 | 4375.6 | 4387.2 | 4396.5 | 4405.8 | 4415.1 | 4426.7 |
| 10° | 4277.9 | 4277.9 | 4284.9 | 4298.8 | 4312.7 | 4329.0 | 4350.0 | 4373.2 | 4396.5 | 4417.4 | 4438.4 |
| 12.5° | 4182.5 | 4175.5 | 4189.5 | 4208.1 | 4229.0 | 4254.6 | 4287.2 | 4322.1 | 4359.3 | 4401.1 | 4433.7 |
| 15° | 4073.2 | 4066.2 | 4082.5 | 4101.1 | 4126.7 | 4163.9 | 4203.5 | 4250.0 | 4303.5 | 4359.3 | 4412.8 |
| 17.5° | 3961.5 | 3959.2 | 3975.4 | 4001.1 | 4022.0 | 4061.5 | 4112.7 | 4168.5 | 4229.0 | 4303.5 | 4373.2 |
| 20° | 3847.5 | 3845.2 | 3861.5 | 3882.4 | 3910.3 | 3947.6 | 3998.7 | 4063.8 | 4136.0 | 4219.7 | 4301.1 |
| 22.5° | 3728.9 | 3731.2 | 3745.2 | 3768.4 | 3791.7 | 3831.2 | 3884.7 | 3949.9 | 4028.9 | 4119.7 | 4210.4 |
| 25° | 3568.4 | 3556.8 | 3575.4 | 3598.6 | 3638.1 | 3670.7 | 3721.9 | 3791.7 | 3873.1 | 3968.5 | 4075.5 |
| 27.5° | 3335.7 | 3333.4 | 3349.7 | 3370.6 | 3405.5 | 3445.1 | 3500.9 | 3573.0 | 3659.1 | 3763.8 | 3868.4 |
| 30° | 3103.1 | 3107.8 | 3114.8 | 3135.7 | 3159.0 | 3198.5 | 3254.3 | 3314.9 | 3396.2 | 3496.3 | 3607.9 |
| 32.5° | 2944.9 | 2944.9 | 2954.3 | 2968.2 | 2984.5 | 3005.4 | 3045.0 | 3089.2 | 3152.0 | 3221.8 | 3303.2 |
| 35° | 2891.4 | 2882.2 | 2891.4 | 2893.8 | 2896.1 | 2900.8 | 2907.7 | 2921.7 | 2942.6 | 2972.9 | 3003.1 |
| 37.5° | 2868.2 | 2861.2 | 2861.2 | 2851.9 | 2840.3 | 2826.3 | 2807.7 | 2786.8 | 2763.5 | 2733.3 | 2710.0 |
| 40° | 2777.5 | 2772.8 | 2768.2 | 2758.9 | 2733.3 | 2705.4 | 2675.1 | 2626.3 | 2572.8 | 2498.3 | 2423.9 |
| 42.5° | 2603.0 | 2598.4 | 2596.0 | 2577.4 | 2554.1 | 2521.6 | 2486.7 | 2435.5 | 2368.1 | 2272.7 | 2165.7 |
| 45° | 2386.7 | 2377.4 | 2370.4 | 2354.1 | 2337.8 | 2309.9 | 2277.4 | 2230.8 | 2163.3 | 2065.7 | 1937.7 |
| 47.5° | 2135.5 | 2130.8 | 2128.5 | 2121.5 | 2105.2 | 2088.9 | 2068.0 | 2030.8 | 1970.3 | 1877.2 | 1744.7 |
| 50° | 1881.9 | 1872.6 | 1877.2 | 1874.9 | 1867.9 | 1856.3 | 1842.3 | 1816.8 | 1770.2 | 1686.5 | 1565.5 |
| 52.5° | 1591.1 | 1591.1 | 1588.8 | 1595.8 | 1598.1 | 1595.8 | 1598.1 | 1570.2 | 1530.6 | 1467.8 | 1365.5 |
| 55° | 1288.7 | 1288.7 | 1295.7 | 1305.0 | 1314.3 | 1316.6 | 1314.3 | 1302.7 | 1274.7 | 1223.6 | 1132.8 |
| 57.5° | 1004.9 | 1000.3 | 1014.2 | 1028.2 | 1037.5 | 1046.8 | 1039.8 | 1030.5 | 1014.2 | 972.3 | 902.6 |
| 60° | 765.3 | 765.3 | 774.6 | 783.9 | 793.2 | 802.5 | 800.2 | 797.9 | 783.9 | 756.0 | 700.2 |
| 62.5° | 562.9 | 565.3 | 565.3 | 572.3 | 581.5 | 590.9 | 597.8 | 590.9 | 583.9 | 565.3 | 528.0 |
| 65° | 402.4 | 400.1 | 402.4 | 409.4 | 416.4 | 425.7 | 430.4 | 428.0 | 421.0 | 407.1 | 379.2 |
| 67.5° | 269.8 | 267.5 | 276.8 | 279.1 | 283.8 | 293.1 | 290.8 | 293.1 | 290.8 | 279.1 | 255.9 |
| 70° | 176.8 | 172.1 | 176.8 | 174.5 | 181.5 | 183.8 | 188.4 | 190.7 | 188.4 | 181.5 | 174.5 |
| 72.5° | 109.3 | 107.0 | 109.3 | 111.7 | 114.0 | 116.3 | 121.0 | 121.0 | 118.6 | 114.0 | 104.7 |
| 75° | 69.8 | 62.8 | 65.1 | 60.5 | 65.1 | 65.1 | 69.8 | 72.1 | 69.8 | 69.8 | 65.1 |
| 77.5° | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 44.2 | 46.5 | 41.9 | 39.6 |
| 80° | 20.9 | 20.9 | 23.3 | 23.3 | 23.3 | 25.6 | 23.3 | 23.3 | 23.3 | 25.6 | 18.6 |
| 82.5° | 16.3 | 13.9 | 13.9 | 13.9 | 16.3 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 85° | 7.0 | 9.3 | 7.0 | 4.7 | 7.0 | 7.0 | 9.3 | 7.0 | 7.0 | 7.0 | 9.3 |
| 87.5° | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 2.3 | 2.3 | 4.7 | 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: P248392

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 |
| 2.5° | 4394.2 | 4389.5 | 4389.5 | 4387.2 | 4391.9 | 4387.2 | 4389.5 | 4387.2 | 4387.2 | 4391.9 | 4387.2 |
| 5° | 4410.5 | 4412.8 | 4408.1 | 4405.8 | 4412.8 | 4412.8 | 4412.8 | 4408.1 | 4408.1 | 4410.5 | 4408.1 |
| 7.5° | 4433.7 | 4438.4 | 4440.7 | 4443.0 | 4447.7 | 4450.0 | 4450.0 | 4447.7 | 4445.4 | 4452.4 | 4443.0 |
| 10° | 4459.3 | 4466.3 | 4480.3 | 4487.3 | 4498.9 | 4498.9 | 4503.5 | 4503.5 | 4498.9 | 4503.5 | 4501.2 |
| 12.5° | 4450.0 | 4491.9 | 4515.1 | 4531.4 | 4547.7 | 4561.6 | 4566.3 | 4568.6 | 4566.3 | 4575.6 | 4566.3 |
| 15° | 4466.3 | 4501.2 | 4538.4 | 4566.3 | 4596.5 | 4612.8 | 4617.5 | 4636.1 | 4640.8 | 4643.1 | 4629.1 |
| 17.5° | 4440.7 | 4503.5 | 4543.0 | 4584.9 | 4629.1 | 4659.4 | 4687.3 | 4698.9 | 4701.3 | 4705.9 | 4687.3 |
| 20° | 4382.5 | 4452.4 | 4512.8 | 4573.3 | 4624.5 | 4671.0 | 4694.3 | 4726.8 | 4717.5 | 4736.2 | 4710.5 |
| 22.5° | 4303.5 | 4382.5 | 4459.3 | 4538.4 | 4591.9 | 4647.8 | 4696.6 | 4719.8 | 4731.5 | 4731.5 | 4703.5 |
| 25° | 4177.8 | 4270.9 | 4354.6 | 4436.0 | 4517.5 | 4584.9 | 4640.8 | 4675.7 | 4682.7 | 4680.3 | 4647.8 |
| 27.5° | 3982.4 | 4082.5 | 4180.2 | 4273.2 | 4373.2 | 4452.4 | 4517.5 | 4559.3 | 4571.0 | 4571.0 | 4536.1 |
| 30° | 3712.6 | 3819.6 | 3915.0 | 4026.6 | 4129.0 | 4217.4 | 4308.1 | 4345.4 | 4366.2 | 4366.2 | 4326.7 |
| 32.5° | 3391.6 | 3482.3 | 3570.7 | 3680.0 | 3791.7 | 3891.7 | 3977.8 | 4028.9 | 4054.6 | 4052.2 | 4017.3 |
| 35° | 3042.7 | 3086.8 | 3154.3 | 3235.7 | 3335.7 | 3428.8 | 3512.5 | 3561.4 | 3605.6 | 3603.3 | 3570.7 |
| 37.5° | 2693.7 | 2682.1 | 2689.1 | 2719.3 | 2782.1 | 2847.3 | 2912.4 | 2958.9 | 2996.1 | 3012.4 | 3005.4 |
| 40° | 2351.8 | 2291.3 | 2233.1 | 2212.2 | 2216.8 | 2240.1 | 2275.0 | 2309.9 | 2351.8 | 2372.7 | 2382.0 |
| 42.5° | 2044.7 | 1942.4 | 1840.0 | 1763.3 | 1719.0 | 1705.1 | 1721.4 | 1733.0 | 1758.6 | 1788.8 | 1819.1 |
| 45° | 1798.2 | 1660.9 | 1526.0 | 1407.4 | 1332.9 | 1288.7 | 1279.4 | 1288.7 | 1302.7 | 1332.9 | 1372.5 |
| 47.5° | 1595.8 | 1435.2 | 1284.1 | 1151.5 | 1042.1 | 984.0 | 967.7 | 963.1 | 977.0 | 1004.9 | 1058.4 |
| 50° | 1416.6 | 1256.1 | 1088.7 | 935.1 | 821.2 | 756.0 | 732.8 | 723.4 | 739.7 | 760.7 | 809.5 |
| 52.5° | 1221.2 | 1063.1 | 890.9 | 742.0 | 623.4 | 556.0 | 530.4 | 516.4 | 525.7 | 553.6 | 602.5 |
| 55° | 1009.6 | 863.0 | 707.2 | 553.6 | 439.6 | 376.9 | 346.6 | 337.3 | 346.6 | 376.9 | 425.7 |
| 57.5° | 797.9 | 674.6 | 544.3 | 400.1 | 297.7 | 235.0 | 204.7 | 195.4 | 221.0 | 232.6 | 283.8 |
| 60° | 623.4 | 523.4 | 411.7 | 293.1 | 204.7 | 155.8 | 125.6 | 118.6 | 130.3 | 151.2 | 193.1 |
| 62.5° | 467.6 | 404.7 | 316.4 | 209.3 | 151.2 | 100.0 | 83.7 | 76.8 | 83.7 | 100.0 | 132.6 |
| 65° | 339.6 | 290.8 | 221.0 | 153.5 | 102.3 | 74.4 | 55.8 | 51.2 | 58.2 | 69.8 | 97.7 |
| 67.5° | 232.6 | 195.4 | 153.5 | 107.0 | 69.8 | 46.5 | 39.6 | 39.6 | 41.9 | 51.2 | 72.1 |
| 70° | 151.2 | 128.0 | 97.7 | 69.8 | 46.5 | 34.9 | 30.2 | 25.6 | 30.2 | 37.2 | 48.8 |
| 72.5° | 95.4 | 81.4 | 62.8 | 48.8 | 34.9 | 25.6 | 20.9 | 18.6 | 23.3 | 27.9 | 37.2 |
| 75° | 58.2 | 44.2 | 32.6 | 25.6 | 18.6 | 18.6 | 18.6 | 9.3 | 11.6 | 18.6 | 23.3 |
| 77.5° | 34.9 | 30.2 | 25.6 | 20.9 | 16.3 | 9.3 | 9.3 | 9.3 | 11.6 | 13.9 | 20.9 |
| 80° | 18.6 | 16.3 | 11.6 | 11.6 | 9.3 | 7.0 | 9.3 | 7.0 | 4.7 | 11.6 | 13.9 |
| 82.5° | 11.6 | 9.3 | 9.3 | 9.3 | 11.6 | 4.7 | 7.0 | 4.7 | 7.0 | 9.3 | 7.0 |
| 85° | 7.0 | 7.0 | 7.0 | 4.7 | 11.6 | 4.7 | 4.7 | 2.3 | 2.3 | 4.7 | 4.7 |
| 87.5° | 0.0 | 2.3 | 2.3 | 0.0 | 2.3 | 0.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 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: P248392

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 | 4382.5 |
| 2.5° | 4389.5 | 4387.2 | 4389.5 | 4387.2 | 4387.2 | 4387.2 | 4389.5 | 4389.5 | 4387.2 | 4387.2 | 4391.9 |
| 5° | 4408.1 | 4408.1 | 4408.1 | 4405.8 | 4403.5 | 4403.5 | 4408.1 | 4408.1 | 4401.1 | 4408.1 | 4408.1 |
| 7.5° | 4447.7 | 4440.7 | 4447.7 | 4438.4 | 4433.7 | 4436.0 | 4438.4 | 4433.7 | 4429.1 | 4431.4 | 4431.4 |
| 10° | 4498.9 | 4491.9 | 4491.9 | 4484.9 | 4477.9 | 4473.3 | 4468.6 | 4457.0 | 4445.4 | 4443.0 | 4433.7 |
| 12.5° | 4559.3 | 4547.7 | 4540.8 | 4526.8 | 4515.1 | 4498.9 | 4484.9 | 4466.3 | 4443.0 | 4426.7 | 4410.5 |
| 15° | 4619.8 | 4601.2 | 4584.9 | 4561.6 | 4536.1 | 4508.1 | 4477.9 | 4447.7 | 4410.5 | 4377.9 | 4350.0 |
| 17.5° | 4668.7 | 4643.1 | 4612.8 | 4575.6 | 4538.4 | 4496.5 | 4452.4 | 4408.1 | 4354.6 | 4312.7 | 4280.2 |
| 20° | 4684.9 | 4647.8 | 4608.2 | 4559.3 | 4510.5 | 4452.4 | 4396.5 | 4338.4 | 4277.9 | 4233.7 | 4196.5 |
| 22.5° | 4664.0 | 4619.8 | 4571.0 | 4519.8 | 4454.6 | 4391.9 | 4326.7 | 4259.2 | 4205.7 | 4145.3 | 4110.4 |
| 25° | 4605.9 | 4552.4 | 4498.9 | 4438.4 | 4375.6 | 4305.8 | 4236.0 | 4166.2 | 4101.1 | 4068.5 | 4024.3 |
| 27.5° | 4487.3 | 4429.1 | 4370.9 | 4308.1 | 4236.0 | 4166.2 | 4094.1 | 4026.6 | 3970.8 | 3926.6 | 3901.1 |
| 30° | 4277.9 | 4210.4 | 4143.0 | 4075.5 | 4012.7 | 3940.6 | 3873.1 | 3817.3 | 3761.4 | 3726.5 | 3701.0 |
| 32.5° | 3956.8 | 3896.4 | 3828.9 | 3763.8 | 3705.7 | 3645.1 | 3589.3 | 3540.5 | 3500.9 | 3477.6 | 3459.0 |
| 35° | 3524.2 | 3463.7 | 3412.5 | 3366.0 | 3317.1 | 3291.6 | 3256.7 | 3228.7 | 3212.5 | 3203.2 | 3200.8 |
| 37.5° | 2979.8 | 2944.9 | 2928.7 | 2919.4 | 2910.1 | 2903.1 | 2907.7 | 2919.4 | 2928.7 | 2944.9 | 2963.6 |
| 40° | 2398.3 | 2428.5 | 2437.9 | 2470.4 | 2500.6 | 2540.2 | 2584.4 | 2635.6 | 2677.4 | 2730.9 | 2768.2 |
| 42.5° | 1867.9 | 1923.8 | 1988.9 | 2058.7 | 2133.1 | 2205.2 | 2293.6 | 2375.0 | 2449.5 | 2516.9 | 2575.1 |
| 45° | 1435.2 | 1521.3 | 1619.0 | 1719.0 | 1819.1 | 1923.8 | 2030.8 | 2130.8 | 2219.2 | 2291.3 | 2351.8 |
| 47.5° | 1118.9 | 1214.3 | 1339.9 | 1463.2 | 1584.1 | 1707.4 | 1826.0 | 1930.7 | 2005.2 | 2075.0 | 2128.5 |
| 50° | 886.3 | 995.6 | 1132.8 | 1274.7 | 1407.4 | 1537.6 | 1663.2 | 1760.9 | 1835.4 | 1891.2 | 1930.7 |
| 52.5° | 686.2 | 816.5 | 956.1 | 1105.0 | 1246.8 | 1388.7 | 1505.0 | 1595.8 | 1656.3 | 1705.1 | 1735.3 |
| 55° | 511.8 | 639.7 | 788.6 | 942.1 | 1086.3 | 1223.6 | 1332.9 | 1412.0 | 1465.5 | 1493.4 | 1509.7 |
| 57.5° | 369.9 | 486.2 | 635.0 | 788.6 | 918.8 | 1049.1 | 1137.5 | 1209.6 | 1239.8 | 1256.1 | 1263.1 |
| 60° | 269.8 | 376.9 | 509.4 | 642.0 | 765.3 | 870.0 | 946.8 | 995.6 | 1018.9 | 1028.2 | 1025.8 |
| 62.5° | 197.7 | 290.8 | 404.7 | 516.4 | 616.4 | 702.5 | 763.0 | 795.5 | 807.2 | 811.8 | 804.9 |
| 65° | 151.2 | 223.3 | 321.0 | 407.1 | 483.9 | 546.6 | 590.9 | 611.8 | 618.8 | 616.4 | 611.8 |
| 67.5° | 111.7 | 167.5 | 239.6 | 304.7 | 360.6 | 409.4 | 432.7 | 451.3 | 455.9 | 449.0 | 442.0 |
| 70° | 79.1 | 123.3 | 174.5 | 218.7 | 260.5 | 288.5 | 314.0 | 316.4 | 316.4 | 314.0 | 309.4 |
| 72.5° | 55.8 | 86.1 | 118.6 | 148.9 | 174.5 | 195.4 | 204.7 | 211.7 | 209.3 | 207.0 | 202.4 |
| 75° | 37.2 | 53.5 | 86.1 | 93.1 | 116.3 | 123.3 | 132.6 | 132.6 | 134.9 | 128.0 | 128.0 |
| 77.5° | 23.3 | 37.2 | 51.2 | 60.5 | 69.8 | 79.1 | 83.7 | 83.7 | 86.1 | 83.7 | 83.7 |
| 80° | 13.9 | 23.3 | 27.9 | 41.9 | 41.9 | 48.8 | 51.2 | 53.5 | 48.8 | 55.8 | 48.8 |
| 82.5° | 9.3 | 13.9 | 20.9 | 20.9 | 25.6 | 30.2 | 30.2 | 32.6 | 32.6 | 30.2 | 30.2 |
| 85° | 7.0 | 9.3 | 11.6 | 13.9 | 13.9 | 16.3 | 13.9 | 13.9 | 16.3 | 18.6 | 16.3 |
| 87.5° | 2.3 | 4.7 | 2.3 | 4.7 | 4.7 | 9.3 | 7.0 | 7.0 | 7.0 | 9.3 | 9.3 |
| 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: P248392

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 4382.5 | 4382.5 | 4382.5 | 4382.5 |
| 2.5° | 4387.2 | 4389.5 | 4387.2 | 4387.2 |
| 5° | 4408.1 | 4405.8 | 4408.1 | 4403.5 |
| 7.5° | 4424.4 | 4424.4 | 4422.1 | 4422.1 |
| 10° | 4424.4 | 4415.1 | 4415.1 | 4415.1 |
| 12.5° | 4389.5 | 4377.9 | 4370.9 | 4366.2 |
| 15° | 4329.0 | 4308.1 | 4298.8 | 4296.5 |
| 17.5° | 4250.0 | 4231.3 | 4219.7 | 4212.7 |
| 20° | 4159.2 | 4140.6 | 4126.7 | 4129.0 |
| 22.5° | 4080.1 | 4059.2 | 4049.9 | 4045.2 |
| 25° | 4001.1 | 3975.4 | 3968.5 | 3963.8 |
| 27.5° | 3873.1 | 3859.2 | 3852.2 | 3845.2 |
| 30° | 3677.7 | 3670.7 | 3659.1 | 3675.4 |
| 32.5° | 3452.1 | 3440.4 | 3431.1 | 3438.1 |
| 35° | 3203.2 | 3196.2 | 3203.2 | 3198.5 |
| 37.5° | 2975.2 | 2982.2 | 2991.5 | 2996.1 |
| 40° | 2796.1 | 2821.7 | 2831.0 | 2835.6 |
| 42.5° | 2617.0 | 2647.2 | 2665.8 | 2677.4 |
| 45° | 2396.0 | 2426.2 | 2447.1 | 2461.1 |
| 47.5° | 2168.0 | 2193.6 | 2214.5 | 2212.2 |
| 50° | 1961.0 | 1974.9 | 1984.2 | 1993.6 |
| 52.5° | 1751.6 | 1751.6 | 1753.9 | 1753.9 |
| 55° | 1514.4 | 1509.7 | 1507.4 | 1509.7 |
| 57.5° | 1253.8 | 1249.2 | 1246.8 | 1239.8 |
| 60° | 1016.6 | 1002.6 | 993.3 | 993.3 |
| 62.5° | 795.5 | 779.3 | 772.3 | 770.0 |
| 65° | 597.8 | 595.5 | 581.5 | 579.2 |
| 67.5° | 432.7 | 423.4 | 414.1 | 416.4 |
| 70° | 304.7 | 290.8 | 290.8 | 286.1 |
| 72.5° | 197.7 | 190.7 | 188.4 | 188.4 |
| 75° | 123.3 | 123.3 | 118.6 | 128.0 |
| 77.5° | 81.4 | 81.4 | 79.1 | 81.4 |
| 80° | 48.8 | 48.8 | 48.8 | 46.5 |
| 82.5° | 30.2 | 32.6 | 30.2 | 30.2 |
| 85° | 16.3 | 18.6 | 13.9 | 20.9 |
| 87.5° | 9.3 | 11.6 | 9.3 | 11.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)