

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: P249436

Luminaire Tested: **LD8B90D010 ER8B90840 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249436
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: LD8B90D010 ER8B90840 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8404.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

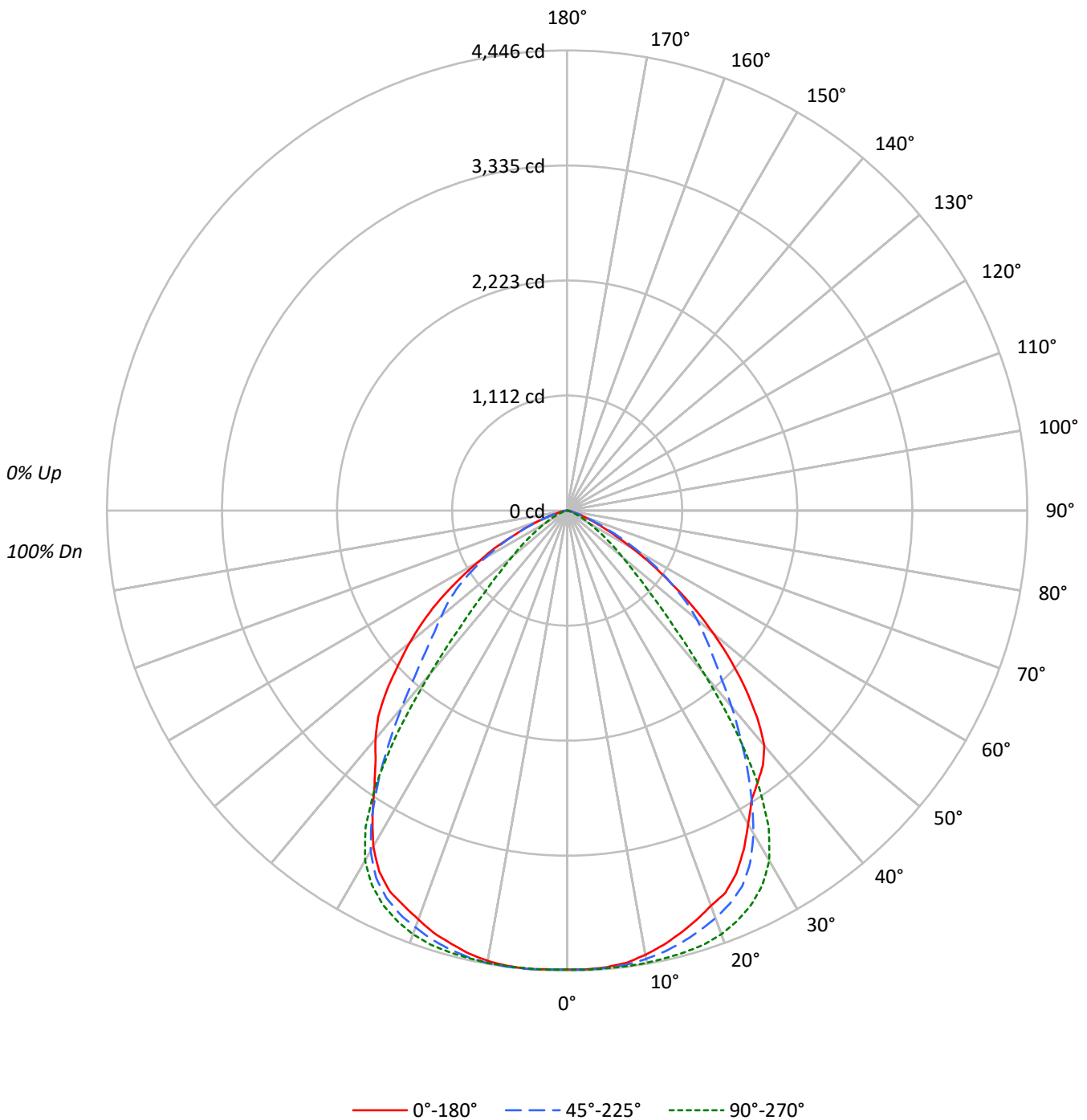
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 90 |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 136731 | 136731 | 136731 |
| 5° | 137034 | 137402 | 137551 |
| 10° | 136455 | 138916 | 138321 |
| 15° | 134943 | 140948 | 138289 |
| 20° | 133325 | 142930 | 137933 |
| 25° | 131592 | 143095 | 138073 |
| 30° | 124495 | 139069 | 133393 |
| 35° | 120778 | 120864 | 122122 |
| 40° | 119281 | 83161 | 115927 |
| 45° | 106284 | 49924 | 107736 |
| 50° | 88375 | 33226 | 95226 |
| 55° | 66283 | 22908 | 80739 |
| 60° | 44916 | 15264 | 60920 |
| 65° | 27092 | 9901 | 41853 |
| 70° | 15021 | 5364 | 25750 |
| 75° | 6803 | 2264 | 13332 |
| 80° | 5913 | 2539 | 9305 |
| 85° | 6722 | 3361 | 9270 |



TEST NUMBER: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 423.2 | 5.0 |
| 10°-20° | 1229.0 | 14.6 |
| 20°-30° | 1865.3 | 22.2 |
| 30°-40° | 1959.1 | 23.3 |
| 40°-50° | 1468.8 | 17.5 |
| 50°-60° | 942.4 | 11.2 |
| 60°-70° | 403.2 | 4.8 |
| 70°-80° | 95.2 | 1.1 |
| 80°-90° | 17.7 | 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° | 3517.5 | 41.9 |
| 0°-40° | 5476.6 | 65.2 |
| 0°-60° | 7887.9 | 93.9 |
| 0°-90° | 8404.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8404.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4434 | 4434 | 4434 | 4434 | 4434 | |
| 5° | 4427 | 4434 | 4439 | 4446 | 4444 | 421 |
| 15° | 4227 | 4315 | 4415 | 4386 | 4332 | 1192 |
| 25° | 3868 | 4003 | 4206 | 4130 | 4058 | 1767 |
| 35° | 3208 | 3030 | 3211 | 3173 | 3244 | 2014 |
| 45° | 2437 | 1992 | 1145 | 1935 | 2470 | 1867 |
| 55° | 1233 | 1233 | 426 | 1285 | 1502 | 1118 |
| 65° | 371 | 438 | 136 | 564 | 574 | 396 |
| 75° | 57 | 67 | 19 | 114 | 112 | 83 |
| 85° | 19 | 12 | 10 | 19 | 26 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 |
| 2.5° | 4436.5 | 4441.3 | 4438.9 | 4438.9 | 4436.5 | 4438.9 | 4438.9 | 4443.7 | 4443.7 | 4438.9 | 4436.5 |
| 5° | 4427.0 | 4431.7 | 4431.7 | 4427.0 | 4427.0 | 4438.9 | 4431.7 | 4436.5 | 4436.5 | 4434.1 | 4434.1 |
| 7.5° | 4405.6 | 4405.6 | 4415.1 | 4408.0 | 4408.0 | 4415.1 | 4412.7 | 4417.5 | 4422.2 | 4424.6 | 4424.6 |
| 10° | 4357.9 | 4362.7 | 4365.1 | 4365.1 | 4367.5 | 4374.6 | 4379.4 | 4388.9 | 4393.6 | 4398.4 | 4400.8 |
| 12.5° | 4298.5 | 4305.6 | 4308.0 | 4305.6 | 4312.7 | 4322.2 | 4334.2 | 4346.1 | 4353.2 | 4362.7 | 4369.9 |
| 15° | 4227.0 | 4227.0 | 4231.8 | 4239.0 | 4243.7 | 4258.0 | 4269.9 | 4284.2 | 4303.2 | 4315.1 | 4327.0 |
| 17.5° | 4148.5 | 4153.3 | 4160.4 | 4160.4 | 4170.0 | 4193.7 | 4200.9 | 4222.3 | 4243.7 | 4255.6 | 4279.4 |
| 20° | 4062.9 | 4067.6 | 4074.7 | 4079.5 | 4091.4 | 4110.4 | 4124.7 | 4143.7 | 4167.6 | 4189.0 | 4212.8 |
| 22.5° | 3996.2 | 3986.7 | 3991.4 | 3996.2 | 4008.1 | 4024.8 | 4041.4 | 4065.2 | 4089.0 | 4110.4 | 4134.3 |
| 25° | 3867.6 | 3870.0 | 3877.2 | 3881.9 | 3896.2 | 3910.5 | 3929.5 | 3958.1 | 3979.5 | 4003.3 | 4029.5 |
| 27.5° | 3693.9 | 3696.3 | 3708.2 | 3708.2 | 3720.1 | 3743.9 | 3755.8 | 3779.6 | 3808.2 | 3831.9 | 3862.9 |
| 30° | 3496.4 | 3501.1 | 3501.1 | 3510.6 | 3517.8 | 3529.7 | 3541.6 | 3565.4 | 3579.7 | 3601.1 | 3644.0 |
| 32.5° | 3315.5 | 3320.2 | 3317.8 | 3315.5 | 3308.3 | 3305.9 | 3303.6 | 3308.3 | 3313.1 | 3320.2 | 3336.9 |
| 35° | 3208.4 | 3196.5 | 3187.0 | 3170.3 | 3151.3 | 3127.4 | 3106.0 | 3077.5 | 3051.3 | 3029.8 | 3006.1 |
| 37.5° | 3106.0 | 3103.6 | 3089.4 | 3065.5 | 3027.5 | 2984.7 | 2934.7 | 2872.8 | 2810.9 | 2744.2 | 2680.0 |
| 40° | 2963.2 | 2956.1 | 2944.2 | 2910.9 | 2868.0 | 2815.6 | 2749.0 | 2672.9 | 2572.9 | 2470.5 | 2365.8 |
| 42.5° | 2720.4 | 2722.8 | 2708.5 | 2682.3 | 2641.9 | 2591.9 | 2522.9 | 2439.6 | 2332.5 | 2211.1 | 2075.5 |
| 45° | 2437.2 | 2437.2 | 2432.4 | 2411.0 | 2382.5 | 2342.0 | 2289.7 | 2220.6 | 2115.9 | 1992.1 | 1846.9 |
| 47.5° | 2142.1 | 2144.5 | 2137.3 | 2132.6 | 2120.6 | 2094.5 | 2056.4 | 2004.1 | 1930.3 | 1811.2 | 1666.0 |
| 50° | 1842.2 | 1842.2 | 1854.1 | 1851.7 | 1851.7 | 1842.2 | 1825.6 | 1794.6 | 1730.3 | 1635.1 | 1499.5 |
| 52.5° | 1542.3 | 1547.1 | 1554.2 | 1563.7 | 1575.6 | 1594.6 | 1575.6 | 1561.3 | 1520.9 | 1447.1 | 1330.5 |
| 55° | 1232.9 | 1237.7 | 1249.5 | 1266.2 | 1280.5 | 1299.6 | 1304.3 | 1304.3 | 1282.8 | 1232.9 | 1144.8 |
| 57.5° | 968.7 | 961.6 | 971.1 | 985.4 | 1004.4 | 1023.5 | 1037.7 | 1054.4 | 1052.0 | 1018.7 | 947.3 |
| 60° | 728.3 | 730.7 | 737.8 | 752.1 | 766.4 | 783.1 | 802.1 | 816.4 | 823.5 | 806.9 | 761.6 |
| 62.5° | 530.8 | 530.8 | 540.3 | 554.5 | 561.7 | 585.5 | 597.4 | 604.6 | 611.7 | 609.3 | 580.7 |
| 65° | 371.3 | 376.0 | 380.8 | 388.0 | 395.1 | 409.3 | 416.5 | 430.8 | 435.6 | 437.9 | 416.5 |
| 67.5° | 261.8 | 254.7 | 259.4 | 264.2 | 271.3 | 280.9 | 295.1 | 295.1 | 302.3 | 302.3 | 288.0 |
| 70° | 166.6 | 166.6 | 169.0 | 176.1 | 180.9 | 183.3 | 188.0 | 192.8 | 199.9 | 197.5 | 197.5 |
| 72.5° | 111.9 | 109.5 | 111.9 | 114.3 | 116.6 | 123.8 | 123.8 | 126.1 | 130.9 | 133.3 | 123.8 |
| 75° | 57.1 | 59.5 | 64.2 | 61.9 | 69.0 | 64.2 | 66.6 | 73.8 | 71.4 | 66.6 | 66.6 |
| 77.5° | 47.6 | 47.6 | 47.6 | 45.2 | 50.0 | 50.0 | 47.6 | 52.4 | 50.0 | 50.0 | 47.6 |
| 80° | 33.3 | 35.7 | 33.3 | 30.9 | 33.3 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 28.5 |
| 82.5° | 26.2 | 21.4 | 23.8 | 21.4 | 23.8 | 23.8 | 21.4 | 19.0 | 19.0 | 21.4 | 19.0 |
| 85° | 19.0 | 14.3 | 16.7 | 16.7 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 11.9 | 11.9 |
| 87.5° | 11.9 | 7.2 | 7.2 | 7.2 | 9.5 | 9.5 | 9.5 | 7.2 | 9.5 | 9.5 | 4.8 |
| 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: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 |
| 2.5° | 4441.3 | 4438.9 | 4443.7 | 4441.3 | 4441.3 | 4438.9 | 4441.3 | 4438.9 | 4443.7 | 4434.1 | 4436.5 |
| 5° | 4441.3 | 4436.5 | 4438.9 | 4441.3 | 4443.7 | 4438.9 | 4438.9 | 4438.9 | 4443.7 | 4438.9 | 4441.3 |
| 7.5° | 4431.7 | 4429.3 | 4436.5 | 4441.3 | 4438.9 | 4436.5 | 4441.3 | 4438.9 | 4443.7 | 4441.3 | 4446.0 |
| 10° | 4412.7 | 4415.1 | 4419.8 | 4427.0 | 4429.3 | 4431.7 | 4436.5 | 4436.5 | 4443.7 | 4434.1 | 4438.9 |
| 12.5° | 4384.1 | 4393.6 | 4405.6 | 4410.3 | 4419.8 | 4419.8 | 4424.6 | 4427.0 | 4431.7 | 4429.3 | 4436.5 |
| 15° | 4348.4 | 4360.3 | 4374.6 | 4386.5 | 4398.4 | 4405.6 | 4412.7 | 4415.1 | 4422.2 | 4415.1 | 4417.5 |
| 17.5° | 4305.6 | 4319.9 | 4341.3 | 4355.6 | 4374.6 | 4381.8 | 4391.3 | 4396.0 | 4403.2 | 4398.4 | 4400.8 |
| 20° | 4246.1 | 4262.8 | 4286.5 | 4308.0 | 4319.9 | 4336.5 | 4348.4 | 4355.6 | 4360.3 | 4355.6 | 4357.9 |
| 22.5° | 4162.8 | 4186.6 | 4217.5 | 4234.2 | 4258.0 | 4272.3 | 4274.7 | 4291.3 | 4303.2 | 4291.3 | 4296.1 |
| 25° | 4065.2 | 4089.0 | 4112.8 | 4148.5 | 4170.0 | 4186.6 | 4203.3 | 4205.7 | 4217.5 | 4215.1 | 4212.8 |
| 27.5° | 3903.3 | 3934.3 | 3974.7 | 4003.3 | 4031.9 | 4058.1 | 4077.1 | 4081.8 | 4093.8 | 4089.0 | 4091.4 |
| 30° | 3682.0 | 3715.4 | 3753.4 | 3798.6 | 3839.1 | 3865.3 | 3889.1 | 3905.7 | 3917.6 | 3910.5 | 3908.1 |
| 32.5° | 3367.9 | 3401.2 | 3441.6 | 3486.8 | 3534.5 | 3572.5 | 3601.1 | 3622.5 | 3636.8 | 3632.0 | 3620.1 |
| 35° | 3008.5 | 3018.0 | 3044.2 | 3079.9 | 3120.3 | 3160.8 | 3187.0 | 3210.7 | 3227.4 | 3232.2 | 3232.2 |
| 37.5° | 2639.5 | 2608.6 | 2589.6 | 2589.6 | 2613.3 | 2630.0 | 2653.8 | 2668.1 | 2694.3 | 2703.8 | 2710.9 |
| 40° | 2282.5 | 2211.1 | 2144.5 | 2094.5 | 2061.2 | 2058.8 | 2058.8 | 2065.9 | 2089.7 | 2120.6 | 2149.2 |
| 42.5° | 1963.6 | 1849.3 | 1747.0 | 1654.2 | 1587.5 | 1549.5 | 1532.8 | 1535.2 | 1554.2 | 1582.8 | 1630.3 |
| 45° | 1708.9 | 1566.1 | 1437.6 | 1325.7 | 1235.3 | 1175.7 | 1147.2 | 1144.8 | 1159.1 | 1192.4 | 1244.8 |
| 47.5° | 1511.4 | 1359.0 | 1213.8 | 1085.3 | 987.8 | 923.5 | 890.2 | 880.7 | 890.2 | 921.1 | 983.0 |
| 50° | 1347.1 | 1190.1 | 1040.1 | 906.8 | 802.1 | 735.5 | 704.5 | 692.6 | 704.5 | 730.7 | 792.5 |
| 52.5° | 1194.8 | 1033.0 | 892.5 | 764.0 | 652.1 | 595.0 | 561.7 | 554.5 | 561.7 | 592.6 | 642.6 |
| 55° | 1018.7 | 880.7 | 742.6 | 614.1 | 516.5 | 459.4 | 433.2 | 426.1 | 433.2 | 461.8 | 514.1 |
| 57.5° | 845.0 | 725.9 | 604.6 | 487.9 | 404.6 | 354.6 | 330.8 | 321.3 | 338.0 | 357.0 | 418.9 |
| 60° | 683.1 | 587.9 | 485.5 | 383.2 | 314.2 | 268.9 | 249.9 | 247.5 | 252.3 | 276.1 | 318.9 |
| 62.5° | 535.5 | 457.0 | 376.0 | 292.8 | 235.6 | 216.6 | 192.8 | 190.4 | 195.2 | 209.4 | 242.8 |
| 65° | 385.6 | 335.6 | 273.7 | 214.2 | 169.0 | 142.8 | 133.3 | 135.7 | 140.4 | 150.0 | 180.9 |
| 67.5° | 268.9 | 233.2 | 190.4 | 150.0 | 116.6 | 104.7 | 95.2 | 92.8 | 95.2 | 111.9 | 128.5 |
| 70° | 180.9 | 159.5 | 128.5 | 114.3 | 80.9 | 64.2 | 66.6 | 59.5 | 69.0 | 69.0 | 83.3 |
| 72.5° | 119.0 | 104.7 | 85.7 | 66.6 | 57.1 | 45.2 | 45.2 | 42.9 | 47.6 | 50.0 | 61.9 |
| 75° | 61.9 | 47.6 | 47.6 | 33.3 | 23.8 | 11.9 | 21.4 | 19.0 | 16.7 | 19.0 | 23.8 |
| 77.5° | 42.9 | 35.7 | 33.3 | 26.2 | 23.8 | 19.0 | 19.0 | 19.0 | 19.0 | 21.4 | 23.8 |
| 80° | 26.2 | 26.2 | 19.0 | 16.7 | 14.3 | 11.9 | 14.3 | 14.3 | 14.3 | 14.3 | 16.7 |
| 82.5° | 16.7 | 14.3 | 14.3 | 11.9 | 11.9 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 14.3 |
| 85° | 14.3 | 9.5 | 9.5 | 7.2 | 9.5 | 16.7 | 7.2 | 9.5 | 9.5 | 9.5 | 7.2 |
| 87.5° | 4.8 | 7.2 | 7.2 | 7.2 | 4.8 | 2.4 | 4.8 | 7.2 | 7.2 | 11.9 | 9.5 |
| 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: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 | 4434.1 |
| 2.5° | 4441.3 | 4443.7 | 4443.7 | 4441.3 | 4441.3 | 4436.5 | 4446.0 | 4438.9 | 4441.3 | 4450.8 | 4443.7 |
| 5° | 4446.0 | 4448.4 | 4448.4 | 4446.0 | 4446.0 | 4446.0 | 4448.4 | 4448.4 | 4446.0 | 4443.7 | 4448.4 |
| 7.5° | 4455.5 | 4453.2 | 4453.2 | 4448.4 | 4448.4 | 4443.7 | 4448.4 | 4441.3 | 4446.0 | 4441.3 | 4448.4 |
| 10° | 4443.7 | 4446.0 | 4443.7 | 4441.3 | 4441.3 | 4438.9 | 4438.9 | 4431.7 | 4434.1 | 4427.0 | 4431.7 |
| 12.5° | 4436.5 | 4434.1 | 4434.1 | 4429.3 | 4424.6 | 4419.8 | 4417.5 | 4410.3 | 4410.3 | 4393.6 | 4400.8 |
| 15° | 4417.5 | 4419.8 | 4412.7 | 4403.2 | 4398.4 | 4386.5 | 4381.8 | 4372.2 | 4362.7 | 4350.8 | 4353.2 |
| 17.5° | 4400.8 | 4393.6 | 4384.1 | 4374.6 | 4355.6 | 4346.1 | 4336.5 | 4322.2 | 4317.5 | 4303.2 | 4298.5 |
| 20° | 4350.8 | 4346.1 | 4334.2 | 4317.5 | 4305.6 | 4284.2 | 4274.7 | 4260.4 | 4248.5 | 4234.2 | 4227.0 |
| 22.5° | 4286.5 | 4281.8 | 4267.5 | 4250.8 | 4231.8 | 4222.3 | 4212.8 | 4186.6 | 4174.7 | 4160.4 | 4158.0 |
| 25° | 4205.7 | 4198.5 | 4184.2 | 4165.2 | 4155.6 | 4129.5 | 4119.9 | 4100.9 | 4096.2 | 4081.8 | 4079.5 |
| 27.5° | 4081.8 | 4072.3 | 4055.7 | 4031.9 | 4015.2 | 3998.6 | 3989.1 | 3974.7 | 3970.0 | 3955.7 | 3953.4 |
| 30° | 3896.2 | 3884.3 | 3851.0 | 3841.5 | 3812.9 | 3796.2 | 3796.2 | 3777.2 | 3779.6 | 3770.1 | 3770.1 |
| 32.5° | 3603.5 | 3584.4 | 3558.2 | 3539.2 | 3520.1 | 3510.6 | 3510.6 | 3503.5 | 3508.3 | 3508.3 | 3513.0 |
| 35° | 3215.5 | 3189.4 | 3175.0 | 3163.1 | 3163.1 | 3172.6 | 3201.2 | 3208.4 | 3222.7 | 3234.5 | 3244.1 |
| 37.5° | 2718.0 | 2715.7 | 2732.4 | 2746.6 | 2782.3 | 2822.8 | 2872.8 | 2915.6 | 2956.1 | 2984.7 | 3013.2 |
| 40° | 2180.2 | 2239.7 | 2287.3 | 2353.9 | 2408.6 | 2487.2 | 2577.6 | 2651.4 | 2720.4 | 2770.5 | 2822.8 |
| 42.5° | 1701.7 | 1777.9 | 1877.9 | 1975.5 | 2073.1 | 2180.2 | 2299.2 | 2401.5 | 2492.0 | 2561.0 | 2615.7 |
| 45° | 1325.7 | 1430.4 | 1551.8 | 1675.6 | 1801.7 | 1935.0 | 2058.8 | 2163.5 | 2258.7 | 2330.1 | 2384.9 |
| 47.5° | 1068.7 | 1182.9 | 1320.9 | 1456.6 | 1599.4 | 1739.8 | 1877.9 | 1968.4 | 2046.9 | 2104.0 | 2154.0 |
| 50° | 883.0 | 1004.4 | 1149.6 | 1304.3 | 1447.1 | 1587.5 | 1706.5 | 1794.6 | 1858.9 | 1908.8 | 1939.8 |
| 52.5° | 737.8 | 866.3 | 1021.1 | 1175.7 | 1318.5 | 1447.1 | 1554.2 | 1620.9 | 1673.2 | 1708.9 | 1737.4 |
| 55° | 609.3 | 733.1 | 878.3 | 1023.5 | 1163.9 | 1285.2 | 1373.3 | 1423.3 | 1463.7 | 1485.2 | 1501.8 |
| 57.5° | 497.5 | 611.7 | 745.0 | 878.3 | 999.6 | 1099.6 | 1168.6 | 1218.6 | 1237.7 | 1254.3 | 1251.9 |
| 60° | 390.4 | 497.5 | 618.8 | 733.1 | 837.8 | 918.7 | 968.7 | 997.3 | 1011.5 | 1018.7 | 1013.9 |
| 62.5° | 307.0 | 404.6 | 497.5 | 597.4 | 673.6 | 742.6 | 790.2 | 790.2 | 797.3 | 799.7 | 806.9 |
| 65° | 228.5 | 302.3 | 383.2 | 457.0 | 518.8 | 564.1 | 590.3 | 597.4 | 606.9 | 604.6 | 599.8 |
| 67.5° | 169.0 | 223.7 | 283.2 | 338.0 | 380.8 | 409.3 | 428.4 | 445.1 | 442.7 | 437.9 | 435.6 |
| 70° | 116.6 | 152.3 | 204.7 | 238.0 | 268.9 | 297.5 | 302.3 | 304.6 | 307.0 | 309.4 | 304.6 |
| 72.5° | 80.9 | 107.1 | 135.7 | 164.2 | 183.3 | 195.2 | 207.1 | 209.4 | 209.4 | 209.4 | 207.1 |
| 75° | 40.5 | 54.7 | 80.9 | 92.8 | 109.5 | 114.3 | 123.8 | 123.8 | 130.9 | 121.4 | 119.0 |
| 77.5° | 35.7 | 42.9 | 57.1 | 66.6 | 73.8 | 80.9 | 83.3 | 90.4 | 88.1 | 83.3 | 85.7 |
| 80° | 21.4 | 26.2 | 35.7 | 40.5 | 50.0 | 52.4 | 54.7 | 57.1 | 54.7 | 57.1 | 57.1 |
| 82.5° | 16.7 | 19.0 | 23.8 | 23.8 | 30.9 | 30.9 | 33.3 | 33.3 | 35.7 | 35.7 | 35.7 |
| 85° | 9.5 | 16.7 | 14.3 | 28.5 | 19.0 | 19.0 | 23.8 | 28.5 | 23.8 | 23.8 | 28.5 |
| 87.5° | 9.5 | 9.5 | 7.2 | 9.5 | 9.5 | 9.5 | 11.9 | 14.3 | 14.3 | 16.7 | 14.3 |
| 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: P249436

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 4434.1 | 4434.1 | 4434.1 | 4434.1 |
| 2.5° | 4441.3 | 4446.0 | 4438.9 | 4436.5 |
| 5° | 4448.4 | 4448.4 | 4443.7 | 4443.7 |
| 7.5° | 4448.4 | 4448.4 | 4441.3 | 4436.5 |
| 10° | 4429.3 | 4429.3 | 4422.2 | 4417.5 |
| 12.5° | 4393.6 | 4393.6 | 4391.3 | 4384.1 |
| 15° | 4348.4 | 4348.4 | 4338.9 | 4331.8 |
| 17.5° | 4286.5 | 4291.3 | 4279.4 | 4279.4 |
| 20° | 4219.9 | 4217.5 | 4208.0 | 4203.3 |
| 22.5° | 4150.9 | 4146.1 | 4143.7 | 4129.5 |
| 25° | 4077.1 | 4072.3 | 4065.2 | 4058.1 |
| 27.5° | 3951.0 | 3948.6 | 3941.4 | 3931.9 |
| 30° | 3758.2 | 3755.8 | 3746.3 | 3746.3 |
| 32.5° | 3508.3 | 3505.9 | 3496.4 | 3498.8 |
| 35° | 3248.8 | 3258.4 | 3253.6 | 3244.1 |
| 37.5° | 3032.2 | 3039.4 | 3044.2 | 3039.4 |
| 40° | 2851.3 | 2872.8 | 2875.2 | 2879.9 |
| 42.5° | 2658.6 | 2687.1 | 2696.7 | 2701.4 |
| 45° | 2427.7 | 2453.9 | 2475.3 | 2470.5 |
| 47.5° | 2192.0 | 2211.1 | 2230.1 | 2215.9 |
| 50° | 1966.0 | 1977.8 | 1985.0 | 1985.0 |
| 52.5° | 1751.8 | 1751.8 | 1749.4 | 1751.8 |
| 55° | 1506.6 | 1506.6 | 1497.1 | 1501.8 |
| 57.5° | 1249.5 | 1254.3 | 1247.1 | 1235.3 |
| 60° | 1011.5 | 999.6 | 994.9 | 987.8 |
| 62.5° | 787.8 | 787.8 | 771.2 | 792.5 |
| 65° | 590.3 | 583.1 | 576.0 | 573.6 |
| 67.5° | 428.4 | 426.1 | 418.9 | 416.5 |
| 70° | 302.3 | 292.8 | 290.4 | 285.6 |
| 72.5° | 202.3 | 202.3 | 197.5 | 197.5 |
| 75° | 123.8 | 111.9 | 109.5 | 111.9 |
| 77.5° | 85.7 | 83.3 | 83.3 | 80.9 |
| 80° | 57.1 | 54.7 | 59.5 | 52.4 |
| 82.5° | 35.7 | 38.1 | 35.7 | 38.1 |
| 85° | 23.8 | 28.5 | 26.2 | 26.2 |
| 87.5° | 14.3 | 14.3 | 14.3 | 14.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)