

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: P249749

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249749  
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: LSR8B80D010 EC8B80935 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE 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: 7545.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

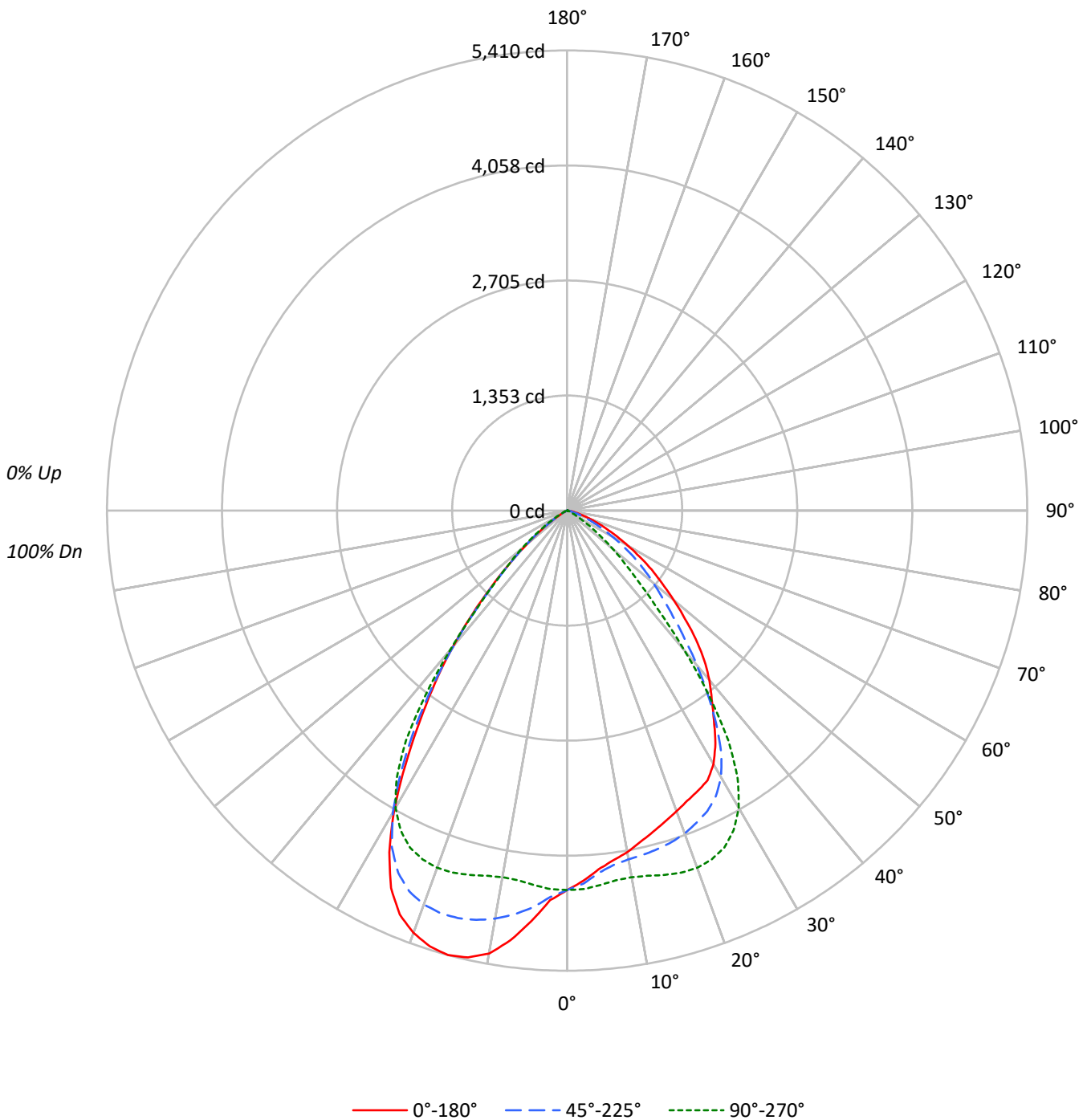
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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 | 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°  | 137573 | 137573 | 137573 |
| 5°  | 131063 | 136808 | 149973 |
| 10° | 127684 | 137018 | 165547 |
| 15° | 124788 | 141561 | 172706 |
| 20° | 123415 | 146675 | 173357 |
| 25° | 123705 | 148747 | 166619 |
| 30° | 122555 | 143637 | 144902 |
| 35° | 113245 | 124309 | 113403 |
| 40° | 104648 | 86188  | 84091  |
| 45° | 93188  | 52004  | 53731  |
| 50° | 78407  | 33504  | 30405  |
| 55° | 65234  | 18381  | 13897  |
| 60° | 50917  | 7968   | 4373   |
| 65° | 37570  | 3955   | 2131   |
| 70° | 26128  | 2443   | 938    |
| 75° | 15894  | 500    | 0      |
| 80° | 11472  | 746    | 0      |
| 85° | 7395   | 743    | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 428.9  | 5.7       |
| 10°-20°   | 1283.6 | 17.0      |
| 20°-30°   | 1965.7 | 26.1      |
| 30°-40°   | 1927.1 | 25.5      |
| 40°-50°   | 1160.5 | 15.4      |
| 50°-60°   | 534.1  | 7.1       |
| 60°-70°   | 187.6  | 2.5       |
| 70°-80°   | 49.1   | 0.7       |
| 80°-90°   | 8.4    | 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°    | 3678.2 | 48.8      |
| 0°-40°    | 5605.3 | 74.3      |
| 0°-60°    | 7299.9 | 96.8      |
| 0°-90°    | 7545.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7545.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4461 | 4461 | 4461 | 4461 | 4461 |      |
| 5°  | 4234 | 4274 | 4420 | 4684 | 4845 | 400  |
| 15° | 3909 | 4120 | 4434 | 4960 | 5410 | 1104 |
| 25° | 3636 | 3898 | 4372 | 4701 | 4897 | 1675 |
| 35° | 3008 | 3050 | 3302 | 3112 | 3012 | 1884 |
| 45° | 2137 | 1760 | 1192 | 1201 | 1232 | 1639 |
| 55° | 1213 | 961  | 342  | 269  | 258  | 1083 |
| 65° | 515  | 356  | 54   | 27   | 29   | 525  |
| 75° | 133  | 77   | 4    | 0    | 0    | 162  |
| 85° | 21   | 10   | 2    | 0    | 0    | 29   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 |
| 2.5°  | 4357.1 | 4361.3 | 4361.3 | 4361.3 | 4369.6 | 4371.8 | 4369.6 | 4371.8 | 4375.9 | 4390.5 | 4396.8 |
| 5°    | 4234.1 | 4227.9 | 4232.1 | 4229.9 | 4240.4 | 4246.7 | 4242.5 | 4248.7 | 4263.3 | 4273.8 | 4284.2 |
| 7.5°  | 4146.6 | 4146.6 | 4146.6 | 4150.7 | 4157.0 | 4169.5 | 4167.5 | 4171.6 | 4186.2 | 4200.8 | 4215.4 |
| 10°   | 4077.8 | 4075.7 | 4075.7 | 4086.1 | 4094.4 | 4109.0 | 4113.2 | 4125.8 | 4144.5 | 4163.3 | 4179.9 |
| 12.5° | 3988.1 | 3990.3 | 4000.7 | 4011.1 | 4029.8 | 4052.7 | 4065.3 | 4082.0 | 4111.2 | 4142.4 | 4161.2 |
| 15°   | 3908.9 | 3911.0 | 3919.4 | 3940.2 | 3963.2 | 3990.3 | 4017.3 | 4044.4 | 4079.9 | 4119.5 | 4152.9 |
| 17.5° | 3831.8 | 3833.8 | 3840.1 | 3863.1 | 3892.3 | 3927.7 | 3959.0 | 3994.4 | 4040.3 | 4086.1 | 4127.8 |
| 20°   | 3760.9 | 3758.8 | 3769.2 | 3790.1 | 3827.7 | 3861.0 | 3892.3 | 3934.0 | 3984.0 | 4040.3 | 4088.2 |
| 22.5° | 3692.1 | 3692.1 | 3702.6 | 3723.4 | 3756.8 | 3790.1 | 3823.5 | 3867.2 | 3917.3 | 3971.5 | 4027.8 |
| 25°   | 3635.8 | 3633.7 | 3648.3 | 3658.8 | 3683.8 | 3717.1 | 3752.6 | 3788.0 | 3838.0 | 3898.5 | 3952.7 |
| 27.5° | 3575.4 | 3573.3 | 3575.4 | 3587.9 | 3610.8 | 3635.8 | 3662.9 | 3694.2 | 3735.9 | 3786.0 | 3838.0 |
| 30°   | 3441.9 | 3444.0 | 3444.0 | 3454.5 | 3467.0 | 3494.0 | 3508.6 | 3539.9 | 3577.4 | 3619.1 | 3665.1 |
| 32.5° | 3243.9 | 3246.0 | 3246.0 | 3250.2 | 3260.5 | 3273.1 | 3285.6 | 3308.5 | 3337.7 | 3373.1 | 3414.8 |
| 35°   | 3008.3 | 3008.3 | 3006.2 | 3008.3 | 3014.6 | 3014.6 | 3025.0 | 3014.6 | 3029.2 | 3050.0 | 3081.3 |
| 37.5° | 2791.5 | 2787.3 | 2783.2 | 2779.0 | 2772.7 | 2762.3 | 2747.7 | 2722.7 | 2716.4 | 2708.1 | 2710.2 |
| 40°   | 2599.7 | 2597.7 | 2585.1 | 2574.7 | 2553.8 | 2528.8 | 2493.4 | 2449.6 | 2414.2 | 2372.5 | 2337.0 |
| 42.5° | 2387.1 | 2384.9 | 2374.5 | 2355.8 | 2332.8 | 2295.3 | 2239.1 | 2180.7 | 2109.8 | 2047.3 | 1982.7 |
| 45°   | 2136.9 | 2143.1 | 2128.5 | 2107.7 | 2080.6 | 2045.1 | 1982.7 | 1911.7 | 1840.8 | 1759.5 | 1678.2 |
| 47.5° | 1876.2 | 1874.2 | 1863.8 | 1851.3 | 1828.4 | 1792.9 | 1751.2 | 1674.1 | 1599.0 | 1524.0 | 1440.6 |
| 50°   | 1634.4 | 1626.1 | 1621.9 | 1609.5 | 1594.9 | 1565.7 | 1521.8 | 1459.3 | 1392.6 | 1321.7 | 1244.6 |
| 52.5° | 1405.1 | 1405.1 | 1394.7 | 1386.4 | 1373.8 | 1350.9 | 1313.4 | 1263.4 | 1207.1 | 1140.3 | 1059.1 |
| 55°   | 1213.4 | 1209.2 | 1198.8 | 1188.3 | 1175.8 | 1161.2 | 1127.9 | 1086.2 | 1025.7 | 961.1  | 890.2  |
| 57.5° | 1009.0 | 1006.9 | 1002.8 | 990.3  | 984.0  | 969.4  | 931.9  | 890.2  | 838.1  | 781.8  | 723.4  |
| 60°   | 825.6  | 817.3  | 808.8  | 800.5  | 790.1  | 775.6  | 750.5  | 715.1  | 671.3  | 621.3  | 562.9  |
| 62.5° | 660.9  | 673.4  | 648.4  | 648.4  | 627.5  | 615.0  | 592.1  | 571.2  | 525.3  | 479.5  | 429.5  |
| 65°   | 514.9  | 514.9  | 504.5  | 496.2  | 483.6  | 469.0  | 446.1  | 425.3  | 391.9  | 356.5  | 321.0  |
| 67.5° | 394.0  | 391.9  | 381.5  | 373.2  | 362.7  | 354.4  | 337.8  | 312.7  | 287.7  | 258.5  | 229.3  |
| 70°   | 289.8  | 287.7  | 285.6  | 271.0  | 262.7  | 252.3  | 239.8  | 223.1  | 204.3  | 183.5  | 156.3  |
| 72.5° | 208.4  | 208.4  | 202.3  | 196.0  | 187.7  | 179.3  | 166.8  | 156.3  | 139.7  | 125.1  | 106.3  |
| 75°   | 133.4  | 131.4  | 131.4  | 120.9  | 120.9  | 108.4  | 100.1  | 93.8   | 85.5   | 77.1   | 60.5   |
| 77.5° | 95.9   | 93.8   | 91.7   | 87.5   | 83.4   | 79.2   | 72.9   | 64.6   | 58.4   | 50.0   | 43.8   |
| 80°   | 64.6   | 60.5   | 58.4   | 58.4   | 52.1   | 50.0   | 52.1   | 39.6   | 37.5   | 31.2   | 27.1   |
| 82.5° | 39.6   | 39.6   | 37.5   | 37.5   | 35.4   | 33.4   | 27.1   | 27.1   | 25.1   | 22.9   | 18.8   |
| 85°   | 20.9   | 27.1   | 18.8   | 20.9   | 18.8   | 20.9   | 18.8   | 14.6   | 12.5   | 10.4   | 10.4   |
| 87.5° | 12.5   | 8.3    | 8.3    | 12.5   | 10.4   | 8.3    | 8.3    | 8.3    | 6.3    | 4.2    | 4.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 |
| 2.5°  | 4392.6 | 4407.2 | 4405.1 | 4423.9 | 4430.1 | 4444.7 | 4444.7 | 4455.1 | 4461.4 | 4476.0 | 4488.5 |
| 5°    | 4288.4 | 4311.3 | 4317.6 | 4340.5 | 4359.3 | 4382.2 | 4396.8 | 4419.7 | 4440.5 | 4471.8 | 4501.0 |
| 7.5°  | 4223.8 | 4242.5 | 4255.0 | 4282.1 | 4303.0 | 4327.9 | 4353.0 | 4384.2 | 4413.4 | 4451.0 | 4492.7 |
| 10°   | 4192.4 | 4217.5 | 4236.2 | 4263.3 | 4288.4 | 4315.5 | 4340.5 | 4375.9 | 4409.3 | 4457.3 | 4503.1 |
| 12.5° | 4184.1 | 4213.3 | 4236.2 | 4273.8 | 4298.8 | 4327.9 | 4357.1 | 4396.8 | 4432.2 | 4482.2 | 4534.4 |
| 15°   | 4184.1 | 4223.8 | 4255.0 | 4296.7 | 4325.9 | 4363.4 | 4394.7 | 4434.3 | 4473.9 | 4526.0 | 4576.0 |
| 17.5° | 4175.8 | 4223.8 | 4263.3 | 4311.3 | 4348.8 | 4386.4 | 4425.9 | 4463.5 | 4505.1 | 4555.3 | 4611.5 |
| 20°   | 4142.4 | 4202.9 | 4250.8 | 4307.1 | 4346.7 | 4388.4 | 4428.1 | 4469.7 | 4513.5 | 4565.6 | 4613.6 |
| 22.5° | 4084.1 | 4154.9 | 4209.2 | 4269.6 | 4315.5 | 4357.1 | 4396.8 | 4438.5 | 4486.4 | 4536.5 | 4586.5 |
| 25°   | 4006.9 | 4073.6 | 4132.0 | 4194.5 | 4240.4 | 4286.2 | 4323.8 | 4371.8 | 4415.6 | 4463.5 | 4503.1 |
| 27.5° | 3890.1 | 3961.0 | 4017.3 | 4082.0 | 4123.6 | 4167.5 | 4198.7 | 4238.4 | 4280.1 | 4319.6 | 4350.9 |
| 30°   | 3715.1 | 3779.7 | 3838.0 | 3896.4 | 3938.1 | 3969.4 | 4002.7 | 4034.0 | 4061.2 | 4088.2 | 4115.3 |
| 32.5° | 3458.6 | 3517.0 | 3573.3 | 3627.5 | 3660.8 | 3688.0 | 3712.9 | 3731.7 | 3746.3 | 3760.9 | 3763.0 |
| 35°   | 3106.3 | 3154.2 | 3189.7 | 3237.6 | 3269.0 | 3293.9 | 3293.9 | 3302.2 | 3300.2 | 3293.9 | 3287.7 |
| 37.5° | 2712.3 | 2731.0 | 2745.6 | 2764.4 | 2766.4 | 2766.4 | 2754.0 | 2743.5 | 2726.9 | 2722.7 | 2710.2 |
| 40°   | 2301.6 | 2276.6 | 2257.8 | 2232.8 | 2218.2 | 2186.9 | 2159.9 | 2141.1 | 2113.9 | 2109.8 | 2105.6 |
| 42.5° | 1911.7 | 1853.3 | 1801.2 | 1757.5 | 1707.5 | 1663.6 | 1624.0 | 1594.9 | 1574.0 | 1571.9 | 1574.0 |
| 45°   | 1594.9 | 1528.1 | 1451.0 | 1390.6 | 1334.3 | 1280.0 | 1227.9 | 1192.5 | 1173.7 | 1169.5 | 1173.7 |
| 47.5° | 1355.1 | 1278.0 | 1202.9 | 1134.1 | 1073.7 | 1013.2 | 961.1  | 913.1  | 890.2  | 883.9  | 881.9  |
| 50°   | 1165.4 | 1086.2 | 1006.9 | 936.0  | 869.3  | 808.8  | 744.2  | 698.4  | 669.2  | 658.8  | 650.4  |
| 52.5° | 979.9  | 909.0  | 827.6  | 754.7  | 687.9  | 617.1  | 550.4  | 498.2  | 469.0  | 456.6  | 448.2  |
| 55°   | 817.3  | 746.4  | 671.3  | 600.4  | 529.5  | 458.7  | 391.9  | 341.9  | 310.6  | 296.0  | 285.6  |
| 57.5° | 652.5  | 585.8  | 521.2  | 450.3  | 391.9  | 323.2  | 256.4  | 212.6  | 185.5  | 168.9  | 160.6  |
| 60°   | 504.5  | 452.4  | 396.1  | 337.8  | 281.5  | 225.2  | 170.9  | 129.2  | 108.4  | 95.9   | 85.5   |
| 62.5° | 381.5  | 337.8  | 300.2  | 250.1  | 206.4  | 158.4  | 116.8  | 83.4   | 64.6   | 54.2   | 50.0   |
| 65°   | 275.2  | 241.8  | 208.4  | 177.2  | 146.0  | 110.5  | 79.2   | 54.2   | 37.5   | 31.2   | 29.2   |
| 67.5° | 196.0  | 168.9  | 143.8  | 123.0  | 100.1  | 79.2   | 56.3   | 37.5   | 29.2   | 25.1   | 22.9   |
| 70°   | 137.6  | 116.8  | 100.1  | 81.3   | 66.7   | 52.1   | 43.8   | 27.1   | 16.6   | 18.8   | 14.6   |
| 72.5° | 91.7   | 77.1   | 68.8   | 56.3   | 45.8   | 37.5   | 27.1   | 18.8   | 18.8   | 14.6   | 12.5   |
| 75°   | 50.0   | 45.8   | 35.4   | 27.1   | 22.9   | 20.9   | 8.3    | 4.2    | 2.1    | 6.3    | 2.1    |
| 77.5° | 35.4   | 31.2   | 27.1   | 22.9   | 18.8   | 14.6   | 8.3    | 8.3    | 6.3    | 8.3    | 4.2    |
| 80°   | 22.9   | 18.8   | 16.6   | 16.6   | 10.4   | 6.3    | 4.2    | 4.2    | 6.3    | 2.1    | 2.1    |
| 82.5° | 14.6   | 12.5   | 10.4   | 10.4   | 10.4   | 6.3    | 6.3    | 6.3    | 6.3    | 4.2    | 4.2    |
| 85°   | 8.3    | 6.3    | 4.2    | 4.2    | 2.1    | 4.2    | 0.0    | 2.1    | 2.1    | 0.0    | 0.0    |
| 87.5° | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 0.0    | 0.0    | 2.1    | 0.0    | 2.1    | 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    |



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CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 | 4461.4 |
| 2.5°  | 4496.8 | 4505.1 | 4515.6 | 4523.9 | 4542.7 | 4546.8 | 4555.3 | 4563.6 | 4569.8 | 4576.0 | 4578.2 |
| 5°    | 4526.0 | 4557.3 | 4586.5 | 4617.7 | 4657.4 | 4684.5 | 4715.7 | 4742.8 | 4769.9 | 4792.9 | 4809.5 |
| 7.5°  | 4534.4 | 4582.3 | 4626.1 | 4680.3 | 4738.6 | 4788.7 | 4840.8 | 4892.9 | 4947.1 | 4988.9 | 5024.3 |
| 10°   | 4551.0 | 4609.4 | 4665.7 | 4730.3 | 4805.4 | 4872.1 | 4936.7 | 5005.5 | 5074.3 | 5132.7 | 5184.8 |
| 12.5° | 4580.2 | 4644.8 | 4705.3 | 4776.2 | 4853.4 | 4928.4 | 4999.2 | 5076.4 | 5149.4 | 5214.0 | 5272.4 |
| 15°   | 4628.2 | 4688.6 | 4747.0 | 4813.7 | 4890.9 | 4959.7 | 5030.6 | 5105.6 | 5178.6 | 5245.3 | 5299.5 |
| 17.5° | 4659.4 | 4715.7 | 4774.1 | 4834.6 | 4899.2 | 4961.7 | 5028.4 | 5095.2 | 5161.8 | 5222.3 | 5272.4 |
| 20°   | 4659.4 | 4713.7 | 4757.4 | 4811.7 | 4872.1 | 4926.3 | 4980.5 | 5038.9 | 5097.2 | 5147.3 | 5195.2 |
| 22.5° | 4621.9 | 4674.0 | 4707.4 | 4749.1 | 4801.2 | 4847.1 | 4876.3 | 4940.9 | 4984.6 | 5028.4 | 5063.9 |
| 25°   | 4534.4 | 4571.9 | 4599.0 | 4628.2 | 4669.9 | 4701.1 | 4726.2 | 4763.7 | 4807.4 | 4824.2 | 4849.2 |
| 27.5° | 4375.9 | 4403.0 | 4417.6 | 4423.9 | 4444.7 | 4461.4 | 4465.6 | 4482.2 | 4501.0 | 4505.1 | 4515.6 |
| 30°   | 4125.8 | 4127.8 | 4121.6 | 4119.5 | 4109.0 | 4096.6 | 4094.4 | 4092.4 | 4084.1 | 4075.7 | 4077.8 |
| 32.5° | 3748.4 | 3738.0 | 3712.9 | 3685.9 | 3658.8 | 3629.6 | 3612.9 | 3592.0 | 3579.5 | 3567.1 | 3552.5 |
| 35°   | 3260.5 | 3235.6 | 3200.1 | 3166.8 | 3135.5 | 3112.5 | 3075.0 | 3062.5 | 3050.0 | 3033.3 | 3029.2 |
| 37.5° | 2687.2 | 2672.7 | 2639.3 | 2614.3 | 2597.7 | 2587.2 | 2568.4 | 2556.0 | 2556.0 | 2549.7 | 2545.5 |
| 40°   | 2095.1 | 2091.0 | 2078.5 | 2084.8 | 2076.4 | 2080.6 | 2078.5 | 2074.3 | 2084.8 | 2084.8 | 2089.0 |
| 42.5° | 1571.9 | 1574.0 | 1580.3 | 1584.4 | 1596.9 | 1599.0 | 1609.5 | 1609.5 | 1615.7 | 1621.9 | 1626.1 |
| 45°   | 1169.5 | 1177.9 | 1177.9 | 1186.2 | 1198.8 | 1200.8 | 1205.0 | 1207.1 | 1211.2 | 1221.7 | 1225.8 |
| 47.5° | 877.7  | 879.7  | 879.7  | 881.9  | 886.0  | 890.2  | 888.1  | 890.2  | 896.5  | 892.3  | 896.5  |
| 50°   | 648.4  | 650.4  | 644.2  | 637.9  | 644.2  | 644.2  | 642.1  | 635.9  | 642.1  | 633.8  | 637.9  |
| 52.5° | 442.0  | 439.9  | 433.6  | 435.7  | 431.5  | 429.5  | 429.5  | 425.3  | 425.3  | 425.3  | 417.0  |
| 55°   | 279.4  | 279.4  | 275.2  | 275.2  | 273.1  | 268.9  | 266.9  | 264.7  | 262.7  | 260.6  | 260.6  |
| 57.5° | 156.3  | 158.4  | 152.2  | 150.1  | 152.2  | 150.1  | 146.0  | 146.0  | 146.0  | 139.7  | 143.8  |
| 60°   | 85.5   | 83.4   | 81.3   | 79.2   | 77.1   | 79.2   | 79.2   | 75.1   | 75.1   | 75.1   | 77.1   |
| 62.5° | 45.8   | 45.8   | 43.8   | 43.8   | 41.7   | 41.7   | 45.8   | 39.6   | 41.7   | 39.6   | 41.7   |
| 65°   | 25.1   | 31.2   | 22.9   | 22.9   | 29.2   | 27.1   | 25.1   | 25.1   | 27.1   | 22.9   | 25.1   |
| 67.5° | 27.1   | 18.8   | 16.6   | 18.8   | 16.6   | 16.6   | 16.6   | 20.9   | 18.8   | 14.6   | 18.8   |
| 70°   | 12.5   | 14.6   | 14.6   | 10.4   | 16.6   | 8.3    | 14.6   | 8.3    | 12.5   | 10.4   | 12.5   |
| 72.5° | 12.5   | 12.5   | 12.5   | 8.3    | 12.5   | 8.3    | 10.4   | 10.4   | 8.3    | 8.3    | 12.5   |
| 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° | 4.2    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    | 4.2    | 4.2    | 4.2    | 0.0    | 2.1    |
| 80°   | 4.2    | 4.2    | 0.0    | 2.1    | 0.0    | 0.0    | 2.1    | 0.0    | 2.1    | 0.0    | 4.2    |
| 82.5° | 2.1    | 4.2    | 2.1    | 2.1    | 4.2    | 4.2    | 4.2    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 0.0    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 4.2    | 0.0    | 0.0    | 0.0    | 2.1    |
| 87.5° | 0.0    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 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: P249749

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 4461.4 | 4461.4 | 4461.4 | 4461.4 |
| 2.5°  | 4580.2 | 4582.3 | 4586.5 | 4584.4 |
| 5°    | 4822.0 | 4838.8 | 4847.1 | 4845.0 |
| 7.5°  | 5049.3 | 5078.5 | 5095.2 | 5095.2 |
| 10°   | 5224.4 | 5257.8 | 5282.8 | 5287.0 |
| 12.5° | 5318.2 | 5355.8 | 5389.2 | 5380.7 |
| 15°   | 5345.3 | 5382.9 | 5416.2 | 5409.9 |
| 17.5° | 5314.1 | 5351.6 | 5376.6 | 5372.4 |
| 20°   | 5228.6 | 5259.8 | 5284.9 | 5282.8 |
| 22.5° | 5095.2 | 5122.3 | 5143.1 | 5141.0 |
| 25°   | 4870.0 | 4888.8 | 4905.4 | 4897.1 |
| 27.5° | 4523.9 | 4530.2 | 4540.6 | 4528.1 |
| 30°   | 4063.2 | 4067.3 | 4071.5 | 4069.5 |
| 32.5° | 3546.2 | 3544.1 | 3539.9 | 3535.7 |
| 35°   | 3022.9 | 3022.9 | 3025.0 | 3012.5 |
| 37.5° | 2547.5 | 2545.5 | 2551.7 | 2545.5 |
| 40°   | 2093.1 | 2091.0 | 2099.4 | 2089.0 |
| 42.5° | 1632.4 | 1638.6 | 1640.7 | 1640.7 |
| 45°   | 1227.9 | 1230.0 | 1232.1 | 1232.1 |
| 47.5° | 896.5  | 898.5  | 909.0  | 896.5  |
| 50°   | 633.8  | 635.9  | 637.9  | 633.8  |
| 52.5° | 419.0  | 421.2  | 419.0  | 412.7  |
| 55°   | 256.4  | 258.5  | 258.5  | 258.5  |
| 57.5° | 137.6  | 139.7  | 139.7  | 137.6  |
| 60°   | 75.1   | 72.9   | 75.1   | 70.9   |
| 62.5° | 39.6   | 43.8   | 41.7   | 37.5   |
| 65°   | 25.1   | 25.1   | 25.1   | 29.2   |
| 67.5° | 20.9   | 16.6   | 18.8   | 14.6   |
| 70°   | 12.5   | 14.6   | 14.6   | 10.4   |
| 72.5° | 10.4   | 10.4   | 10.4   | 12.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 4.2    | 4.2    | 4.2    | 2.1    |
| 80°   | 2.1    | 0.0    | 2.1    | 0.0    |
| 82.5° | 2.1    | 2.1    | 4.2    | 2.1    |
| 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)