

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: P248362

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248362
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: LSR8B60D010 EC8B60850 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6637.0 lumens
Efficiency: N/A
Efficacy: 111.5 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

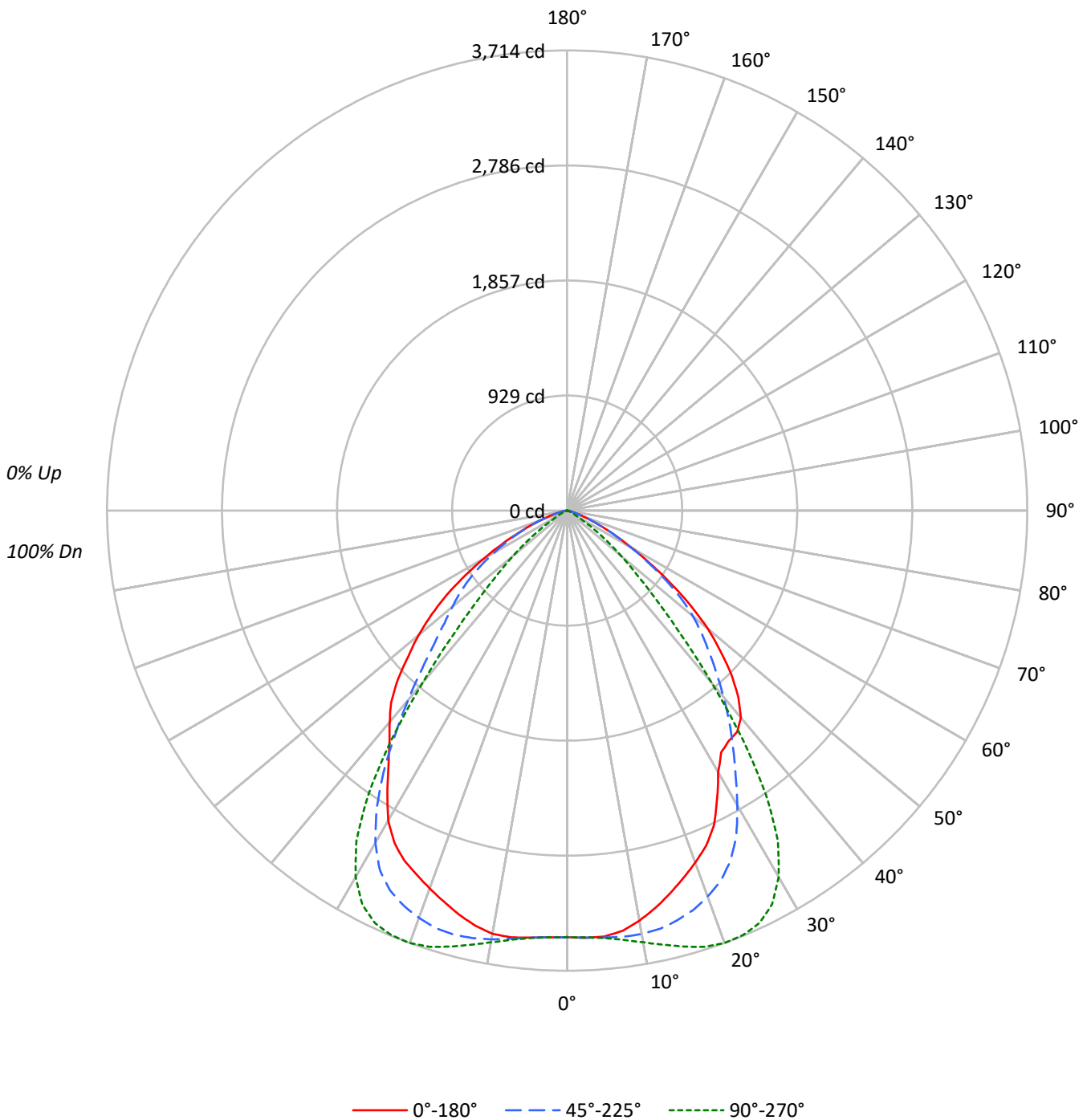
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	106169	106169	106169
5°	106804	107200	107086
10°	105233	110785	108612
15°	102157	116277	107757
20°	99191	121860	106450
25°	95383	124981	105954
30°	86806	121554	102814
35°	85513	105328	94592
40°	87838	73049	89674
45°	81771	44150	84318
50°	70928	27263	75135
55°	54428	14247	63766
60°	37084	5748	48123
65°	23064	2933	33199
70°	12523	1812	20268
75°	6529	870	11974
80°	2930	977	6482
85°	1946	637	5838



TEST NUMBER: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	5.0
10°-20°	980.9	14.8
20°-30°	1496.4	22.5
30°-40°	1561.5	23.5
40°-50°	1172.9	17.7
50°-60°	721.7	10.9
60°-70°	293.7	4.4
70°-80°	69.2	1.0
80°-90°	9.5	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°	2808.4	42.3
0°-40°	4370.0	65.8
0°-60°	6264.6	94.4
0°-90°	6637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6637.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3443	3443	3443	3443	3443	
5°	3450	3460	3463	3460	3460	326
15°	3200	3425	3642	3542	3375	901
25°	2803	3118	3673	3383	3114	1274
35°	2272	2336	2798	2586	2513	1434
45°	1875	1623	1012	1511	1934	1431
55°	1012	961	265	961	1186	910
65°	316	320	40	430	455	330
75°	55	55	7	97	100	66
85°	6	6	2	13	16	8
90°	0	0	0	0	0	



TEST NUMBER: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0
2.5°	3452.2	3446.7	3452.2	3452.2	3454.0	3450.4	3452.2	3454.0	3450.4	3450.4	3450.4
5°	3450.4	3446.7	3450.4	3448.5	3452.2	3452.2	3455.9	3455.9	3459.5	3459.5	3465.0
7.5°	3421.1	3413.8	3421.1	3426.6	3430.3	3437.6	3446.7	3454.0	3461.3	3468.7	3477.8
10°	3360.8	3360.8	3366.3	3377.3	3388.2	3401.0	3417.5	3435.8	3454.0	3470.5	3486.9
12.5°	3285.9	3280.4	3291.4	3306.0	3322.4	3342.6	3368.1	3395.6	3424.8	3457.7	3483.3
15°	3200.0	3194.5	3207.3	3221.9	3242.0	3271.3	3302.4	3338.9	3380.9	3424.8	3466.8
17.5°	3112.3	3110.4	3123.2	3143.4	3159.8	3190.8	3231.1	3274.9	3322.4	3380.9	3435.8
20°	3022.7	3020.9	3033.7	3050.2	3072.1	3101.3	3141.5	3192.7	3249.3	3315.2	3379.1
22.5°	2929.5	2931.3	2942.3	2960.6	2978.9	3009.9	3052.0	3103.1	3165.3	3236.5	3307.8
25°	2803.4	2794.3	2808.9	2827.2	2858.2	2883.8	2924.1	2978.9	3042.8	3117.8	3201.8
27.5°	2620.7	2618.8	2631.7	2648.1	2675.5	2706.6	2750.4	2807.1	2874.7	2956.9	3039.2
30°	2437.9	2441.6	2447.1	2463.5	2481.8	2512.8	2556.7	2604.2	2668.2	2746.8	2834.5
32.5°	2313.6	2313.6	2321.0	2331.9	2344.7	2361.2	2392.2	2426.9	2476.3	2531.1	2595.1
35°	2271.6	2264.3	2271.6	2273.4	2275.3	2278.9	2284.4	2295.4	2311.8	2335.6	2359.3
37.5°	2253.4	2247.9	2247.9	2240.6	2231.4	2220.4	2205.8	2189.4	2171.1	2147.3	2129.1
40°	2182.1	2178.4	2174.7	2167.5	2147.3	2125.4	2101.6	2063.3	2021.2	1962.7	1904.3
42.5°	2045.0	2041.4	2039.5	2024.9	2006.6	1981.0	1953.6	1913.4	1860.4	1785.5	1701.4
45°	1875.1	1867.7	1862.3	1849.5	1836.6	1814.7	1789.2	1752.6	1699.6	1622.9	1522.3
47.5°	1677.7	1674.0	1672.2	1666.7	1653.9	1641.1	1624.7	1595.4	1547.9	1474.8	1370.7
50°	1478.5	1471.2	1474.8	1473.0	1467.5	1458.4	1447.4	1427.3	1390.7	1325.0	1229.9
52.5°	1250.0	1250.0	1248.2	1253.7	1255.5	1253.7	1255.5	1233.6	1202.5	1153.2	1072.8
55°	1012.4	1012.4	1017.9	1025.3	1032.6	1034.4	1032.6	1023.4	1001.5	961.3	890.0
57.5°	789.5	785.8	796.8	807.8	815.1	822.4	816.9	809.6	796.8	763.9	709.1
60°	601.3	601.3	608.5	615.9	623.2	630.5	628.7	626.8	615.9	593.9	550.1
62.5°	442.2	444.1	444.1	449.6	456.9	464.2	469.7	464.2	458.7	444.1	414.8
65°	316.1	314.3	316.1	321.6	327.1	334.4	338.1	336.3	330.8	319.8	297.9
67.5°	212.0	210.2	217.5	219.3	223.0	230.3	228.5	230.3	228.5	219.3	201.0
70°	138.9	135.2	138.9	137.1	142.6	144.4	148.0	149.8	148.0	142.6	137.1
72.5°	85.9	84.1	85.9	87.7	89.6	91.4	95.0	95.0	93.2	89.6	82.2
75°	54.8	49.3	51.2	47.5	51.2	51.2	54.8	56.7	54.8	54.8	51.2
77.5°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	34.7	36.5	32.9	31.1
80°	16.5	16.5	18.3	18.3	18.3	20.1	18.3	18.3	18.3	20.1	14.6
82.5°	12.8	11.0	11.0	11.0	12.8	11.0	11.0	11.0	11.0	11.0	11.0
85°	5.5	7.3	5.5	3.7	5.5	5.5	7.3	5.5	5.5	5.5	7.3
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.7	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: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0
2.5°	3452.2	3448.5	3448.5	3446.7	3450.4	3446.7	3448.5	3446.7	3446.7	3450.4	3446.7
5°	3465.0	3466.8	3463.2	3461.3	3466.8	3466.8	3466.8	3463.2	3463.2	3465.0	3463.2
7.5°	3483.3	3486.9	3488.7	3490.6	3494.2	3496.1	3496.1	3494.2	3492.4	3497.9	3490.6
10°	3503.4	3508.9	3519.8	3525.3	3534.4	3534.4	3538.1	3538.1	3534.4	3538.1	3536.3
12.5°	3496.1	3528.9	3547.2	3560.0	3572.8	3583.8	3587.4	3589.3	3587.4	3594.8	3587.4
15°	3508.9	3536.3	3565.5	3587.4	3611.2	3624.0	3627.6	3642.3	3645.9	3647.8	3636.8
17.5°	3488.7	3538.1	3569.1	3602.1	3636.8	3660.5	3682.5	3691.6	3693.5	3697.1	3682.5
20°	3443.0	3497.9	3545.4	3592.9	3633.1	3669.7	3688.0	3713.5	3706.2	3720.9	3700.7
22.5°	3380.9	3443.0	3503.4	3565.5	3607.6	3651.4	3689.8	3708.0	3717.2	3717.2	3695.2
25°	3282.2	3355.4	3421.1	3485.1	3549.1	3602.1	3645.9	3673.3	3678.8	3677.0	3651.4
27.5°	3128.7	3207.3	3284.1	3357.2	3435.8	3497.9	3549.1	3581.9	3591.1	3591.1	3563.7
30°	2916.7	3000.8	3075.7	3163.4	3243.9	3313.3	3384.6	3413.8	3430.3	3430.3	3399.2
32.5°	2664.5	2735.8	2805.2	2891.1	2978.9	3057.5	3125.1	3165.3	3185.4	3183.6	3156.1
35°	2390.4	2425.1	2478.1	2542.1	2620.7	2693.8	2759.5	2798.0	2832.7	2830.8	2805.2
37.5°	2116.3	2107.1	2112.6	2136.4	2185.7	2236.9	2288.1	2324.6	2353.8	2366.7	2361.2
40°	1847.6	1800.1	1754.4	1738.0	1741.6	1759.9	1787.3	1814.7	1847.6	1864.1	1871.4
42.5°	1606.4	1526.0	1445.6	1385.3	1350.5	1339.6	1352.4	1361.5	1381.6	1405.4	1429.1
45°	1412.7	1304.9	1198.9	1105.7	1047.2	1012.4	1005.1	1012.4	1023.4	1047.2	1078.2
47.5°	1253.7	1127.6	1008.8	904.6	818.7	773.1	760.3	756.6	767.6	789.5	831.5
50°	1113.0	986.9	855.3	734.6	645.1	593.9	575.7	568.3	581.1	597.6	636.0
52.5°	959.4	835.2	699.9	583.0	489.8	436.8	416.7	405.7	413.0	435.0	473.3
55°	793.1	678.0	555.6	435.0	345.4	296.1	272.3	265.0	272.3	296.1	334.4
57.5°	626.8	530.0	427.6	314.3	233.9	184.6	160.8	153.5	173.6	182.8	223.0
60°	489.8	411.2	323.5	230.3	160.8	122.4	98.7	93.2	102.4	118.8	151.7
62.5°	367.3	318.0	248.5	164.5	118.8	78.6	65.8	60.3	65.8	78.6	104.2
65°	266.8	228.5	173.6	120.6	80.4	58.5	43.9	40.2	45.7	54.8	76.8
67.5°	182.8	153.5	120.6	84.1	54.8	36.5	31.1	31.1	32.9	40.2	56.7
70°	118.8	100.5	76.8	54.8	36.5	27.4	23.7	20.1	23.7	29.2	38.4
72.5°	74.9	63.9	49.3	38.4	27.4	20.1	16.5	14.6	18.3	21.9	29.2
75°	45.7	34.7	25.6	20.1	14.6	14.6	14.6	7.3	9.1	14.6	18.3
77.5°	27.4	23.7	20.1	16.5	12.8	7.3	7.3	7.3	9.1	11.0	16.5
80°	14.6	12.8	9.1	9.1	7.3	5.5	7.3	5.5	3.7	9.1	11.0
82.5°	9.1	7.3	7.3	7.3	9.1	3.7	5.5	3.7	5.5	7.3	5.5
85°	5.5	5.5	5.5	3.7	9.1	3.7	3.7	1.8	1.8	3.7	3.7
87.5°	0.0	1.8	1.8	0.0	1.8	0.0	1.8	1.8	1.8	1.8	1.8
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: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0
2.5°	3448.5	3446.7	3448.5	3446.7	3446.7	3446.7	3448.5	3448.5	3446.7	3446.7	3450.4
5°	3463.2	3463.2	3463.2	3461.3	3459.5	3459.5	3463.2	3463.2	3457.7	3463.2	3463.2
7.5°	3494.2	3488.7	3494.2	3486.9	3483.3	3485.1	3486.9	3483.3	3479.6	3481.5	3481.5
10°	3534.4	3528.9	3528.9	3523.5	3518.0	3514.3	3510.7	3501.5	3492.4	3490.6	3483.3
12.5°	3581.9	3572.8	3567.4	3556.4	3547.2	3534.4	3523.5	3508.9	3490.6	3477.8	3465.0
15°	3629.5	3614.8	3602.1	3583.8	3563.7	3541.7	3518.0	3494.2	3465.0	3439.4	3417.5
17.5°	3667.8	3647.8	3624.0	3594.8	3565.5	3532.6	3497.9	3463.2	3421.1	3388.2	3362.6
20°	3680.6	3651.4	3620.3	3581.9	3543.6	3497.9	3454.0	3408.3	3360.8	3326.1	3296.9
22.5°	3664.2	3629.5	3591.1	3550.9	3499.7	3450.4	3399.2	3346.2	3304.2	3256.7	3229.3
25°	3618.5	3576.5	3534.4	3486.9	3437.6	3382.8	3327.9	3273.1	3221.9	3196.3	3161.6
27.5°	3525.3	3479.6	3433.9	3384.6	3327.9	3273.1	3216.5	3163.4	3119.6	3084.9	3064.8
30°	3360.8	3307.8	3254.8	3201.8	3152.5	3095.8	3042.8	2999.0	2955.1	2927.7	2907.6
32.5°	3108.6	3061.1	3008.1	2956.9	2911.3	2863.7	2819.9	2781.5	2750.4	2732.1	2717.5
35°	2768.7	2721.2	2681.0	2644.4	2606.0	2586.0	2558.5	2536.6	2523.8	2516.5	2514.7
37.5°	2341.0	2313.6	2300.8	2293.6	2286.2	2280.8	2284.4	2293.6	2300.8	2313.6	2328.3
40°	1884.2	1907.9	1915.3	1940.8	1964.6	1995.7	2030.4	2070.6	2103.5	2145.5	2174.7
42.5°	1467.5	1511.4	1562.5	1617.4	1675.8	1732.5	1801.9	1865.9	1924.4	1977.4	2023.1
45°	1127.6	1195.2	1272.0	1350.5	1429.1	1511.4	1595.4	1674.0	1743.5	1800.1	1847.6
47.5°	879.0	954.0	1052.7	1149.5	1244.6	1341.4	1434.6	1516.8	1575.3	1630.1	1672.2
50°	696.3	782.2	890.0	1001.5	1105.7	1208.0	1306.7	1383.4	1441.9	1485.8	1516.8
52.5°	539.1	641.5	751.1	868.1	979.6	1091.0	1182.4	1253.7	1301.2	1339.6	1363.3
55°	402.0	502.6	619.5	740.1	853.5	961.3	1047.2	1109.3	1151.4	1173.3	1186.1
57.5°	290.6	382.0	498.9	619.5	721.9	824.2	893.7	950.3	974.1	986.9	992.3
60°	212.0	296.1	400.2	504.4	601.3	683.5	743.8	782.2	800.5	807.8	805.9
62.5°	155.3	228.5	318.0	405.7	484.3	551.9	599.4	625.0	634.2	637.8	632.3
65°	118.8	175.4	252.2	319.8	380.1	429.5	464.2	480.7	486.1	484.3	480.7
67.5°	87.7	131.6	188.3	239.4	283.3	321.6	339.9	354.6	358.2	352.7	347.2
70°	62.2	96.9	137.1	171.8	204.7	226.6	246.7	248.5	248.5	246.7	243.1
72.5°	43.9	67.6	93.2	117.0	137.1	153.5	160.8	166.3	164.5	162.6	159.0
75°	29.2	42.0	67.6	73.1	91.4	96.9	104.2	104.2	106.0	100.5	100.5
77.5°	18.3	29.2	40.2	47.5	54.8	62.2	65.8	65.8	67.6	65.8	65.8
80°	11.0	18.3	21.9	32.9	32.9	38.4	40.2	42.0	38.4	43.9	38.4
82.5°	7.3	11.0	16.5	16.5	20.1	23.7	23.7	25.6	25.6	23.7	23.7
85°	5.5	7.3	9.1	11.0	11.0	12.8	11.0	11.0	12.8	14.6	12.8
87.5°	1.8	3.7	1.8	3.7	3.7	7.3	5.5	5.5	5.5	7.3	7.3
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: P248362

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3443.0	3443.0	3443.0	3443.0
2.5°	3446.7	3448.5	3446.7	3446.7
5°	3463.2	3461.3	3463.2	3459.5
7.5°	3476.0	3476.0	3474.1	3474.1
10°	3476.0	3468.7	3468.7	3468.7
12.5°	3448.5	3439.4	3433.9	3430.3
15°	3401.0	3384.6	3377.3	3375.4
17.5°	3338.9	3324.3	3315.2	3309.7
20°	3267.6	3253.0	3242.0	3243.9
22.5°	3205.5	3189.1	3181.7	3178.1
25°	3143.4	3123.2	3117.8	3114.1
27.5°	3042.8	3031.9	3026.4	3020.9
30°	2889.3	2883.8	2874.7	2887.5
32.5°	2712.1	2702.9	2695.6	2701.1
35°	2516.5	2511.0	2516.5	2512.8
37.5°	2337.4	2342.9	2350.2	2353.8
40°	2196.7	2216.8	2224.1	2227.7
42.5°	2056.0	2079.7	2094.3	2103.5
45°	1882.3	1906.1	1922.5	1933.5
47.5°	1703.3	1723.4	1739.8	1738.0
50°	1540.6	1551.6	1558.9	1566.2
52.5°	1376.1	1376.1	1377.9	1377.9
55°	1189.7	1186.1	1184.2	1186.1
57.5°	985.0	981.4	979.6	974.1
60°	798.6	787.7	780.3	780.3
62.5°	625.0	612.2	606.8	604.9
65°	469.7	467.8	456.9	455.0
67.5°	339.9	332.6	325.3	327.1
70°	239.4	228.5	228.5	224.8
72.5°	155.3	149.8	148.0	148.0
75°	96.9	96.9	93.2	100.5
77.5°	63.9	63.9	62.2	63.9
80°	38.4	38.4	38.4	36.5
82.5°	23.7	25.6	23.7	23.7
85°	12.8	14.6	11.0	16.5
87.5°	7.3	9.1	7.3	9.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)