

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: P248426

Luminaire Tested: **LSR8B70D010 EC8B70930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248426
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: LSR8B70D010 EC8B70930 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6532.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

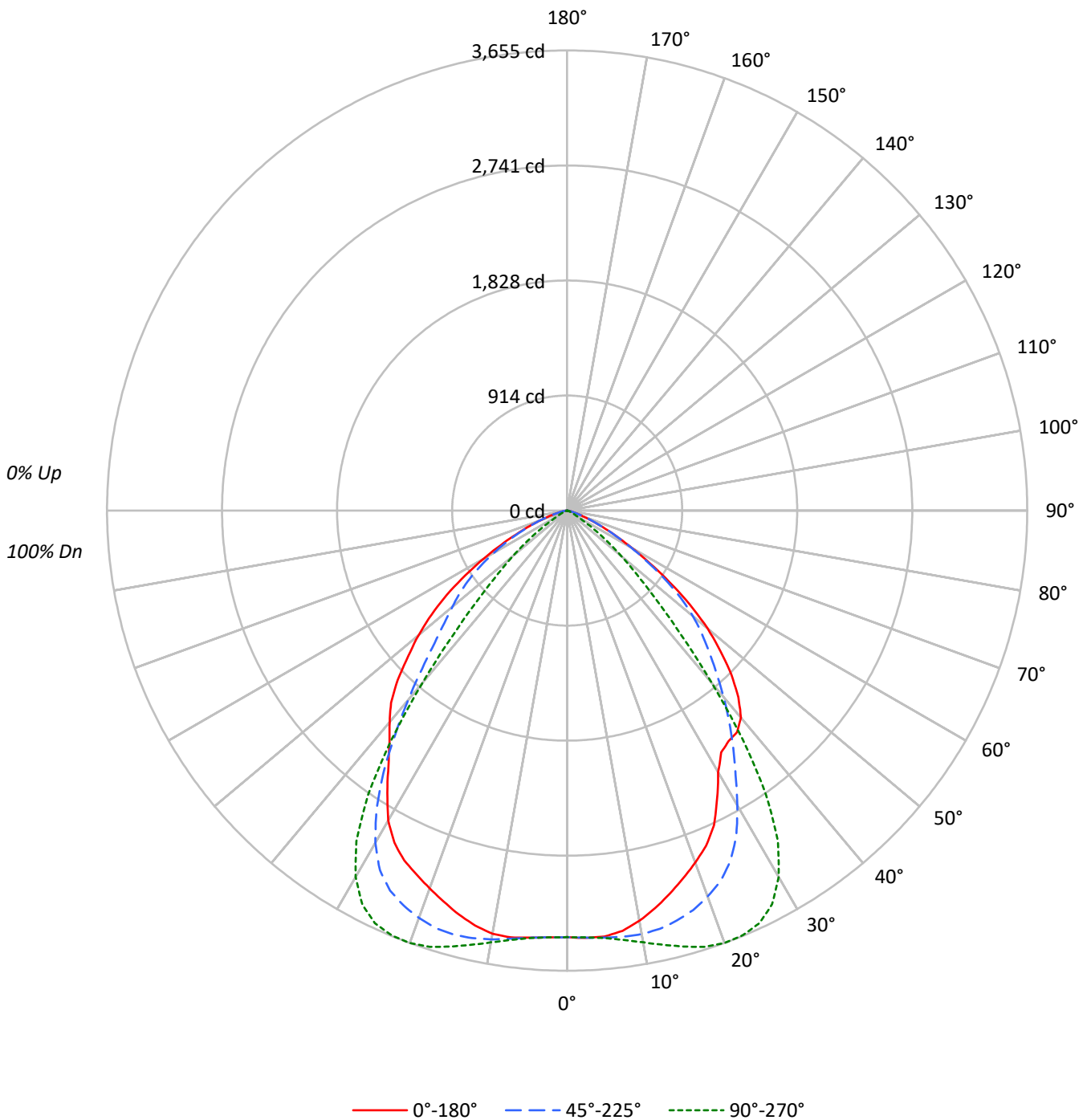
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	5.0
10°-20°	965.4	14.8
20°-30°	1472.8	22.5
30°-40°	1536.9	23.5
40°-50°	1154.4	17.7
50°-60°	710.3	10.9
60°-70°	289.1	4.4
70°-80°	68.1	1.0
80°-90°	9.4	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°	2764.0	42.3
0°-40°	4300.9	65.8
0°-60°	6165.5	94.4
0°-90°	6532.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6532.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3389	3389	3389	3389	3389	
5°	3396	3405	3408	3405	3405	321
15°	3149	3371	3585	3486	3322	887
25°	2759	3068	3615	3329	3065	1254
35°	2236	2299	2754	2545	2473	1412
45°	1845	1597	996	1488	1903	1408
55°	996	946	261	946	1167	896
65°	311	315	40	423	448	325
75°	54	54	7	95	99	65
85°	5	5	2	13	16	8
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°	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6
2.5°	3397.6	3392.3	3397.6	3397.6	3399.4	3395.8	3397.6	3399.4	3395.8	3395.8	3395.8
5°	3395.8	3392.3	3395.8	3394.1	3397.6	3397.6	3401.2	3401.2	3404.8	3404.8	3410.2
7.5°	3367.0	3359.9	3367.0	3372.4	3376.0	3383.3	3392.3	3399.4	3406.6	3413.8	3422.7
10°	3307.6	3307.6	3313.1	3323.9	3334.6	3347.2	3363.4	3381.4	3399.4	3415.6	3431.8
12.5°	3234.0	3228.6	3239.4	3253.7	3270.0	3289.7	3314.9	3341.8	3370.6	3403.0	3428.2
15°	3149.4	3144.0	3156.6	3171.0	3190.8	3219.5	3250.1	3286.1	3327.5	3370.6	3412.0
17.5°	3063.0	3061.2	3073.9	3093.6	3109.9	3140.4	3180.1	3223.1	3270.0	3327.5	3381.4
20°	2974.9	2973.1	2985.8	3001.9	3023.4	3052.3	3091.8	3142.2	3198.0	3262.8	3325.7
22.5°	2883.2	2885.0	2895.8	2913.8	2931.8	2962.4	3003.7	3054.1	3115.3	3185.3	3255.5
25°	2759.1	2750.1	2764.5	2782.5	2813.0	2838.3	2877.8	2931.8	2994.8	3068.5	3151.2
27.5°	2579.2	2577.4	2590.1	2606.2	2633.2	2663.7	2707.0	2762.7	2829.3	2910.2	2991.2
30°	2399.4	2403.0	2408.4	2424.6	2442.5	2473.2	2516.3	2563.1	2626.1	2703.3	2789.7
32.5°	2277.1	2277.1	2284.3	2295.0	2307.7	2323.8	2354.4	2388.6	2437.2	2491.1	2554.1
35°	2235.7	2228.5	2235.7	2237.5	2239.3	2242.9	2248.3	2259.2	2275.3	2298.6	2322.0
37.5°	2217.7	2212.3	2212.3	2205.1	2196.2	2185.4	2170.9	2154.8	2136.9	2113.4	2095.4
40°	2147.6	2144.0	2140.3	2133.2	2113.4	2091.8	2068.4	2030.7	1989.3	1931.7	1874.2
42.5°	2012.6	2009.1	2007.3	1992.9	1974.9	1949.8	1922.7	1883.2	1831.0	1757.3	1674.5
45°	1845.4	1838.2	1832.8	1820.3	1807.6	1786.1	1760.9	1724.9	1672.8	1597.2	1498.2
47.5°	1651.1	1647.5	1645.7	1640.4	1627.8	1615.1	1599.0	1570.2	1523.4	1451.5	1349.0
50°	1455.1	1447.9	1451.5	1449.7	1444.3	1435.3	1424.5	1404.7	1368.7	1304.1	1210.5
52.5°	1230.3	1230.3	1228.5	1233.9	1235.7	1233.9	1235.7	1214.0	1183.6	1134.9	1055.8
55°	996.5	996.5	1001.8	1009.0	1016.2	1018.0	1016.2	1007.2	985.6	946.1	875.9
57.5°	777.0	773.4	784.3	795.0	802.2	809.4	804.0	796.8	784.3	751.9	697.8
60°	591.8	591.8	599.0	606.1	613.3	620.6	618.7	616.9	606.1	584.5	541.4
62.5°	435.3	437.1	437.1	442.5	449.6	456.8	462.2	456.8	451.4	437.1	408.3
65°	311.2	309.4	311.2	316.6	322.0	329.1	332.7	330.9	325.5	314.8	293.1
67.5°	208.6	206.8	214.0	215.8	219.4	226.7	224.9	226.7	224.9	215.8	197.9
70°	136.6	133.1	136.6	134.9	140.3	142.1	145.6	147.5	145.6	140.3	134.9
72.5°	84.5	82.7	84.5	86.3	88.1	89.9	93.5	93.5	91.7	88.1	80.9
75°	53.9	48.5	50.3	46.7	50.3	50.3	53.9	55.7	53.9	53.9	50.3
77.5°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	34.2	36.0	32.4	30.6
80°	16.1	16.1	18.0	18.0	18.0	19.8	18.0	18.0	18.0	19.8	14.3
82.5°	12.6	10.8	10.8	10.8	12.6	10.8	10.8	10.8	10.8	10.8	10.8
85°	5.4	7.2	5.4	3.6	5.4	5.4	7.2	5.4	5.4	5.4	7.2
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.6	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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6
2.5°	3397.6	3394.1	3394.1	3392.3	3395.8	3392.3	3394.1	3392.3	3392.3	3395.8	3392.3
5°	3410.2	3412.0	3408.4	3406.6	3412.0	3412.0	3412.0	3408.4	3408.4	3410.2	3408.4
7.5°	3428.2	3431.8	3433.6	3435.4	3439.0	3440.8	3440.8	3439.0	3437.2	3442.6	3435.4
10°	3448.0	3453.4	3464.1	3469.6	3478.6	3478.6	3482.2	3482.2	3478.6	3482.2	3480.4
12.5°	3440.8	3473.2	3491.1	3503.7	3516.4	3527.1	3530.7	3532.5	3530.7	3537.9	3530.7
15°	3453.4	3480.4	3509.2	3530.7	3554.1	3566.7	3570.3	3584.6	3588.3	3590.1	3579.4
17.5°	3433.6	3482.2	3512.8	3545.1	3579.4	3602.7	3624.2	3633.3	3635.1	3638.7	3624.2
20°	3388.6	3442.6	3489.3	3536.1	3575.7	3611.6	3629.7	3654.8	3647.6	3662.1	3642.2
22.5°	3327.5	3388.6	3448.0	3509.2	3550.5	3593.7	3631.5	3649.4	3658.4	3658.4	3636.9
25°	3230.4	3302.4	3367.0	3429.9	3492.9	3545.1	3588.3	3615.2	3620.7	3618.8	3593.7
27.5°	3079.3	3156.6	3232.2	3304.1	3381.4	3442.6	3492.9	3525.3	3534.3	3534.3	3507.4
30°	2870.7	2953.4	3027.1	3113.5	3192.6	3261.0	3331.1	3359.9	3376.0	3376.0	3345.5
32.5°	2622.4	2692.5	2760.9	2845.4	2931.8	3009.1	3075.7	3115.3	3135.0	3133.2	3106.3
35°	2352.6	2386.7	2439.0	2501.8	2579.2	2651.2	2716.0	2753.7	2787.9	2786.0	2760.9
37.5°	2082.8	2073.8	2079.2	2102.5	2151.2	2201.5	2251.9	2287.8	2316.7	2329.2	2323.8
40°	1818.5	1771.6	1726.7	1710.5	1714.1	1732.1	1759.1	1786.1	1818.5	1834.6	1841.8
42.5°	1580.9	1501.9	1422.7	1363.4	1329.2	1318.4	1331.0	1339.9	1359.8	1383.1	1406.5
45°	1390.4	1284.2	1179.9	1088.2	1030.6	996.5	989.3	996.5	1007.2	1030.6	1061.3
47.5°	1233.9	1109.8	992.9	890.3	805.8	760.8	748.3	744.7	755.4	777.0	818.3
50°	1095.3	971.2	841.8	723.0	634.9	584.5	566.6	559.4	571.9	588.2	625.9
52.5°	944.2	821.9	688.9	573.7	482.0	429.9	410.1	399.3	406.5	428.1	465.9
55°	780.6	667.2	546.8	428.1	339.9	291.3	268.0	260.9	268.0	291.3	329.1
57.5°	616.9	521.6	420.8	309.4	230.3	181.7	158.3	151.1	170.8	179.9	219.4
60°	482.0	404.7	318.4	226.7	158.3	120.5	97.1	91.7	100.8	116.9	149.3
62.5°	361.5	313.0	244.6	161.9	116.9	77.3	64.8	59.4	64.8	77.3	102.6
65°	262.7	224.9	170.8	118.7	79.1	57.6	43.2	39.6	45.0	53.9	75.6
67.5°	179.9	151.1	118.7	82.7	53.9	36.0	30.6	30.6	32.4	39.6	55.7
70°	116.9	99.0	75.6	53.9	36.0	27.0	23.3	19.8	23.3	28.8	37.8
72.5°	73.8	62.9	48.5	37.8	27.0	19.8	16.1	14.3	18.0	21.5	28.8
75°	45.0	34.2	25.2	19.8	14.3	14.3	14.3	7.2	9.0	14.3	18.0
77.5°	27.0	23.3	19.8	16.1	12.6	7.2	7.2	7.2	9.0	10.8	16.1
80°	14.3	12.6	9.0	9.0	7.2	5.4	7.2	5.4	3.6	9.0	10.8
82.5°	9.0	7.2	7.2	7.2	9.0	3.6	5.4	3.6	5.4	7.2	5.4
85°	5.4	5.4	5.4	3.6	9.0	3.6	3.6	1.8	1.8	3.6	3.6
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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6
2.5°	3394.1	3392.3	3394.1	3392.3	3392.3	3392.3	3394.1	3394.1	3392.3	3392.3	3395.8
5°	3408.4	3408.4	3408.4	3406.6	3404.8	3404.8	3408.4	3408.4	3403.0	3408.4	3408.4
7.5°	3439.0	3433.6	3439.0	3431.8	3428.2	3429.9	3431.8	3428.2	3424.7	3426.4	3426.4
10°	3478.6	3473.2	3473.2	3467.8	3462.3	3458.7	3455.1	3446.2	3437.2	3435.4	3428.2
12.5°	3525.3	3516.4	3511.0	3500.1	3491.1	3478.6	3467.8	3453.4	3435.4	3422.7	3410.2
15°	3572.1	3557.7	3545.1	3527.1	3507.4	3485.7	3462.3	3439.0	3410.2	3385.1	3363.4
17.5°	3609.8	3590.1	3566.7	3537.9	3509.2	3476.8	3442.6	3408.4	3367.0	3334.6	3309.5
20°	3622.4	3593.7	3563.1	3525.3	3487.5	3442.6	3399.4	3354.5	3307.6	3273.5	3244.7
22.5°	3606.3	3572.1	3534.3	3494.7	3444.4	3395.8	3345.5	3293.3	3251.9	3205.2	3178.1
25°	3561.3	3519.9	3478.6	3431.8	3383.3	3329.3	3275.3	3221.4	3171.0	3145.8	3111.7
27.5°	3469.6	3424.7	3379.6	3331.1	3275.3	3221.4	3165.6	3113.5	3070.3	3036.1	3016.3
30°	3307.6	3255.5	3203.4	3151.2	3102.6	3046.9	2994.8	2951.6	2908.3	2881.4	2861.7
32.5°	3059.4	3012.7	2960.6	2910.2	2865.3	2818.4	2775.3	2737.5	2707.0	2688.9	2674.6
35°	2724.9	2678.2	2638.6	2602.6	2564.8	2545.1	2518.1	2496.5	2483.9	2476.7	2474.9
37.5°	2304.0	2277.1	2264.4	2257.2	2250.1	2244.7	2248.3	2257.2	2264.4	2277.1	2291.4
40°	1854.4	1877.8	1885.0	1910.2	1933.5	1964.1	1998.3	2037.9	2070.3	2111.6	2140.3
42.5°	1444.3	1487.5	1537.8	1591.8	1649.3	1705.2	1773.4	1836.4	1893.9	1946.1	1991.1
45°	1109.8	1176.3	1251.8	1329.2	1406.5	1487.5	1570.2	1647.5	1715.9	1771.6	1818.5
47.5°	865.2	938.9	1036.0	1131.3	1224.9	1320.2	1411.9	1492.8	1550.5	1604.4	1645.7
50°	685.3	769.8	875.9	985.6	1088.2	1188.8	1286.0	1361.6	1419.2	1462.3	1492.8
52.5°	530.6	631.3	739.2	854.3	964.1	1073.8	1163.7	1233.9	1280.6	1318.4	1341.7
55°	395.7	494.6	609.7	728.4	840.0	946.1	1030.6	1091.7	1133.1	1154.7	1167.3
57.5°	286.0	376.0	491.0	609.7	710.5	811.2	879.5	935.3	958.7	971.2	976.6
60°	208.6	291.3	393.9	496.4	591.8	672.7	732.0	769.8	787.8	795.0	793.2
62.5°	152.9	224.9	313.0	399.3	476.6	543.1	590.0	615.1	624.2	627.8	622.4
65°	116.9	172.6	248.2	314.8	374.1	422.6	456.8	473.1	478.4	476.6	473.1
67.5°	86.3	129.5	185.3	235.6	278.8	316.6	334.5	349.0	352.6	347.2	341.7
70°	61.2	95.3	134.9	169.0	201.4	223.1	242.8	244.6	244.6	242.8	239.2
72.5°	43.2	66.6	91.7	115.1	134.9	151.1	158.3	163.7	161.9	160.1	156.5
75°	28.8	41.4	66.6	72.0	89.9	95.3	102.6	102.6	104.3	99.0	99.0
77.5°	18.0	28.8	39.6	46.7	53.9	61.2	64.8	64.8	66.6	64.8	64.8
80°	10.8	18.0	21.5	32.4	32.4	37.8	39.6	41.4	37.8	43.2	37.8
82.5°	7.2	10.8	16.1	16.1	19.8	23.3	23.3	25.2	25.2	23.3	23.3
85°	5.4	7.2	9.0	10.8	10.8	12.6	10.8	10.8	12.6	14.3	12.6
87.5°	1.8	3.6	1.8	3.6	3.6	7.2	5.4	5.4	5.4	7.2	7.2
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: P248426

CATALOG NUMBER: LSR8B70D010 EC8B70930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3388.6	3388.6	3388.6	3388.6
2.5°	3392.3	3394.1	3392.3	3392.3
5°	3408.4	3406.6	3408.4	3404.8
7.5°	3421.0	3421.0	3419.2	3419.2
10°	3421.0	3413.8	3413.8	3413.8
12.5°	3394.1	3385.1	3379.6	3376.0
15°	3347.2	3331.1	3323.9	3322.1
17.5°	3286.1	3271.8	3262.8	3257.3
20°	3215.9	3201.6	3190.8	3192.6
22.5°	3154.8	3138.6	3131.4	3127.8
25°	3093.6	3073.9	3068.5	3064.9
27.5°	2994.8	2984.0	2978.5	2973.1
30°	2843.6	2838.3	2829.3	2841.8
32.5°	2669.2	2660.1	2653.0	2658.5
35°	2476.7	2471.4	2476.7	2473.2
37.5°	2300.5	2305.8	2313.1	2316.7
40°	2162.0	2181.7	2189.0	2192.6
42.5°	2023.5	2046.8	2061.2	2070.3
45°	1852.6	1876.0	1892.1	1903.0
47.5°	1676.3	1696.1	1712.3	1710.5
50°	1516.3	1527.0	1534.2	1541.5
52.5°	1354.4	1354.4	1356.2	1356.2
55°	1170.9	1167.3	1165.5	1167.3
57.5°	969.4	965.9	964.1	958.7
60°	786.0	775.3	768.0	768.0
62.5°	615.1	602.5	597.2	595.4
65°	462.2	460.4	449.6	447.8
67.5°	334.5	327.3	320.2	322.0
70°	235.6	224.9	224.9	221.3
72.5°	152.9	147.5	145.6	145.6
75°	95.3	95.3	91.7	99.0
77.5°	62.9	62.9	61.2	62.9
80°	37.8	37.8	37.8	36.0
82.5°	23.3	25.2	23.3	23.3
85°	12.6	14.3	10.8	16.1
87.5°	7.2	9.0	7.2	9.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)