

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: P248498

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248498
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 EC8B70935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6560.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

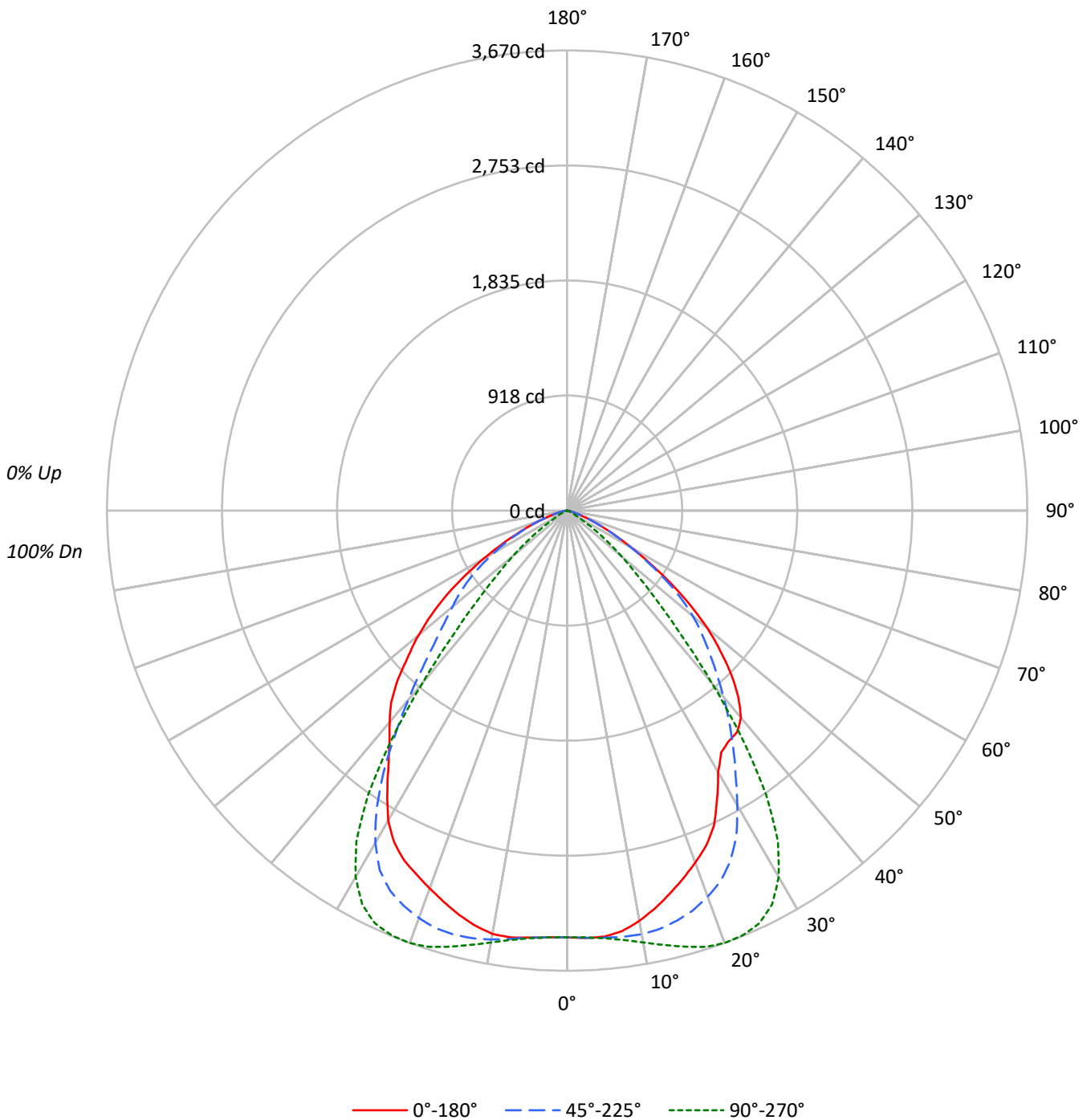
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	104939	104939	104939
5°	105563	105956	105844
10°	104012	109501	107350
15°	100973	114927	106508
20°	98042	120445	105212
25°	94277	123531	104726
30°	85798	120144	101622
35°	84519	104105	93497
40°	86820	72204	88635
45°	80821	43640	83341
50°	70103	26951	74262
55°	53799	14080	63025
60°	36652	5680	47568
65°	22802	2897	32820
70°	12379	1794	20033
75°	6458	858	11843
80°	2895	959	6411
85°	1911	637	5767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	5.0
10°-20°	969.5	14.8
20°-30°	1479.1	22.5
30°-40°	1543.4	23.5
40°-50°	1159.3	17.7
50°-60°	713.3	10.9
60°-70°	290.3	4.4
70°-80°	68.4	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°	2775.8	42.3
0°-40°	4319.3	65.8
0°-60°	6191.9	94.4
0°-90°	6560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6560.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3403	3403	3403	3403	3403	
5°	3410	3419	3423	3419	3419	323
15°	3163	3385	3600	3501	3336	891
25°	2771	3082	3631	3344	3078	1260
35°	2245	2308	2766	2556	2484	1418
45°	1853	1604	1001	1494	1911	1414
55°	1001	950	262	950	1172	900
65°	312	316	40	424	450	326
75°	54	54	7	96	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°	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1
2.5°	3412.2	3406.7	3412.2	3412.2	3414.0	3410.3	3412.2	3414.0	3410.3	3410.3	3410.3
5°	3410.3	3406.7	3410.3	3408.5	3412.2	3412.2	3415.8	3415.8	3419.4	3419.4	3424.8
7.5°	3381.4	3374.2	3381.4	3386.9	3390.5	3397.7	3406.7	3414.0	3421.2	3428.4	3437.4
10°	3321.8	3321.8	3327.3	3338.1	3348.9	3361.6	3377.8	3395.9	3414.0	3430.2	3446.5
12.5°	3247.8	3242.3	3253.2	3267.6	3283.9	3303.8	3329.1	3356.2	3385.1	3417.5	3442.9
15°	3162.9	3157.4	3170.1	3184.5	3204.4	3233.3	3264.0	3300.2	3341.7	3385.1	3426.6
17.5°	3076.2	3074.4	3087.0	3106.9	3123.1	3153.8	3193.6	3236.9	3283.9	3341.7	3395.9
20°	2987.7	2985.9	2998.5	3014.8	3036.4	3065.3	3105.1	3155.6	3211.6	3276.7	3339.9
22.5°	2895.5	2897.3	2908.2	2926.2	2944.3	2975.0	3016.5	3067.1	3128.5	3199.0	3269.4
25°	2770.9	2761.9	2776.3	2794.4	2825.1	2850.4	2890.1	2944.3	3007.5	3081.6	3164.7
27.5°	2590.3	2588.4	2601.1	2617.3	2644.4	2675.2	2718.5	2774.5	2841.3	2922.6	3003.9
30°	2409.6	2413.2	2418.7	2434.9	2453.0	2483.7	2527.1	2574.0	2637.2	2714.9	2801.6
32.5°	2286.8	2286.8	2294.0	2304.9	2317.5	2333.8	2364.5	2398.8	2447.6	2501.8	2565.0
35°	2245.2	2238.0	2245.2	2247.1	2248.9	2252.5	2257.9	2268.8	2285.0	2308.5	2332.0
37.5°	2227.2	2221.8	2221.8	2214.6	2205.5	2194.7	2180.2	2164.0	2145.9	2122.4	2104.4
40°	2156.8	2153.1	2149.5	2142.3	2122.4	2100.8	2077.3	2039.3	1997.8	1940.0	1882.2
42.5°	2021.3	2017.7	2015.9	2001.4	1983.3	1958.1	1931.0	1891.2	1838.8	1764.8	1681.7
45°	1853.3	1846.1	1840.7	1828.0	1815.3	1793.7	1768.4	1732.2	1679.9	1604.0	1504.7
47.5°	1658.2	1654.6	1652.8	1647.4	1634.7	1622.1	1605.8	1576.9	1530.0	1457.7	1354.7
50°	1461.3	1454.1	1457.7	1455.9	1450.5	1441.5	1430.6	1410.7	1374.6	1309.6	1215.7
52.5°	1235.5	1235.5	1233.7	1239.1	1240.9	1239.1	1240.9	1219.3	1188.6	1139.8	1060.3
55°	1000.7	1000.7	1006.1	1013.4	1020.6	1022.4	1020.6	1011.6	989.9	950.1	879.7
57.5°	780.3	776.7	787.6	798.4	805.6	812.8	807.4	800.2	787.6	755.0	700.8
60°	594.3	594.3	601.5	608.7	615.9	623.2	621.4	619.6	608.7	587.0	543.7
62.5°	437.1	438.9	438.9	444.4	451.6	458.8	464.2	458.8	453.4	438.9	410.0
65°	312.5	310.7	312.5	317.9	323.4	330.6	334.2	332.4	326.9	316.1	294.4
67.5°	209.5	207.7	214.9	216.7	220.4	227.6	225.8	227.6	225.8	216.7	198.7
70°	137.3	133.7	137.3	135.5	140.9	142.7	146.3	148.1	146.3	140.9	135.5
72.5°	84.9	83.1	84.9	86.7	88.5	90.3	93.9	93.9	92.1	88.5	81.3
75°	54.2	48.8	50.6	47.0	50.6	50.6	54.2	56.0	54.2	54.2	50.6
77.5°	32.5	32.5	32.5	32.5	32.5	32.5	32.5	34.3	36.1	32.5	30.7
80°	16.3	16.3	18.1	18.1	18.1	19.9	18.1	18.1	18.1	19.9	14.5
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°	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1
2.5°	3412.2	3408.5	3408.5	3406.7	3410.3	3406.7	3408.5	3406.7	3406.7	3410.3	3406.7
5°	3424.8	3426.6	3423.0	3421.2	3426.6	3426.6	3426.6	3423.0	3423.0	3424.8	3423.0
7.5°	3442.9	3446.5	3448.3	3450.1	3453.7	3455.5	3455.5	3453.7	3451.9	3457.3	3450.1
10°	3462.7	3468.2	3479.0	3484.4	3493.4	3493.4	3497.1	3497.1	3493.4	3497.1	3495.2
12.5°	3455.5	3488.0	3506.1	3518.7	3531.4	3542.2	3545.8	3547.6	3545.8	3553.1	3545.8
15°	3468.2	3495.2	3524.2	3545.8	3569.3	3581.9	3585.5	3600.0	3603.6	3605.4	3594.6
17.5°	3448.3	3497.1	3527.7	3560.3	3594.6	3618.1	3639.7	3648.8	3650.6	3654.2	3639.7
20°	3403.1	3457.3	3504.3	3551.2	3591.0	3627.1	3645.2	3670.4	3663.2	3677.7	3657.8
22.5°	3341.7	3403.1	3462.7	3524.2	3565.7	3609.1	3647.0	3665.0	3674.1	3674.1	3652.4
25°	3244.2	3316.4	3381.4	3444.6	3507.9	3560.3	3603.6	3630.7	3636.2	3634.3	3609.1
27.5°	3092.4	3170.1	3246.0	3318.2	3395.9	3457.3	3507.9	3540.4	3549.4	3549.4	3522.3
30°	2882.9	2966.0	3040.1	3126.7	3206.2	3274.9	3345.3	3374.2	3390.5	3390.5	3359.8
32.5°	2633.6	2704.1	2772.7	2857.6	2944.3	3022.0	3088.8	3128.5	3148.4	3146.6	3119.5
35°	2362.7	2397.0	2449.4	2512.6	2590.3	2662.5	2727.5	2765.5	2799.8	2798.0	2772.7
37.5°	2091.7	2082.7	2088.1	2111.6	2160.3	2210.9	2261.5	2297.7	2326.5	2339.2	2333.8
40°	1826.2	1779.2	1734.1	1717.8	1721.4	1739.5	1766.6	1793.7	1826.2	1842.5	1849.7
42.5°	1587.8	1508.3	1428.8	1369.2	1334.9	1324.0	1336.7	1345.7	1365.6	1389.0	1412.6
45°	1396.3	1289.7	1184.9	1092.8	1035.0	1000.7	993.5	1000.7	1011.6	1035.0	1065.7
47.5°	1239.1	1114.5	997.1	894.1	809.2	764.1	751.4	747.8	758.7	780.3	821.9
50°	1100.0	975.4	845.4	726.1	637.6	587.0	569.0	561.8	574.4	590.7	628.6
52.5°	948.3	825.5	691.8	576.2	484.1	431.7	411.8	401.0	408.2	429.9	467.8
55°	783.9	670.1	549.1	429.9	341.4	292.6	269.1	261.9	269.1	292.6	330.6
57.5°	619.6	523.8	422.7	310.7	231.2	182.4	158.9	151.7	171.6	180.6	220.4
60°	484.1	406.4	319.7	227.6	158.9	121.0	97.5	92.1	101.2	117.4	149.9
62.5°	363.1	314.3	245.7	162.6	117.4	77.7	65.0	59.6	65.0	77.7	103.0
65°	263.7	225.8	171.6	119.2	79.5	57.8	43.4	39.7	45.2	54.2	75.9
67.5°	180.6	151.7	119.2	83.1	54.2	36.1	30.7	30.7	32.5	39.7	56.0
70°	117.4	99.4	75.9	54.2	36.1	27.1	23.5	19.9	23.5	28.9	37.9
72.5°	74.1	63.2	48.8	37.9	27.1	19.9	16.3	14.5	18.1	21.7	28.9
75°	45.2	34.3	25.3	19.9	14.5	14.5	14.5	7.2	9.0	14.5	18.1
77.5°	27.1	23.5	19.9	16.3	12.6	7.2	7.2	7.2	9.0	10.8	16.3
80°	14.5	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°	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1	3403.1
2.5°	3408.5	3406.7	3408.5	3406.7	3406.7	3406.7	3408.5	3408.5	3406.7	3406.7	3410.3
5°	3423.0	3423.0	3423.0	3421.2	3419.4	3419.4	3423.0	3423.0	3417.5	3423.0	3423.0
7.5°	3453.7	3448.3	3453.7	3446.5	3442.9	3444.6	3446.5	3442.9	3439.2	3441.1	3441.1
10°	3493.4	3488.0	3488.0	3482.6	3477.2	3473.5	3470.0	3460.9	3451.9	3450.1	3442.9
12.5°	3540.4	3531.4	3526.0	3515.1	3506.1	3493.4	3482.6	3468.2	3450.1	3437.4	3424.8
15°	3587.4	3572.9	3560.3	3542.2	3522.3	3500.6	3477.2	3453.7	3424.8	3399.5	3377.8
17.5°	3625.3	3605.4	3581.9	3553.1	3524.2	3491.6	3457.3	3423.0	3381.4	3348.9	3323.6
20°	3637.9	3609.1	3578.3	3540.4	3502.5	3457.3	3414.0	3368.8	3321.8	3287.5	3258.6
22.5°	3621.7	3587.4	3549.4	3509.7	3459.1	3410.3	3359.8	3307.4	3265.8	3218.9	3191.8
25°	3576.5	3535.0	3493.4	3446.5	3397.7	3343.5	3289.3	3235.1	3184.5	3159.3	3125.0
27.5°	3484.4	3439.2	3394.1	3345.3	3289.3	3235.1	3179.1	3126.7	3083.4	3049.1	3029.2
30°	3321.8	3269.4	3217.1	3164.7	3115.9	3059.9	3007.5	2964.2	2920.8	2893.7	2873.9
32.5°	3072.5	3025.6	2973.2	2922.6	2877.5	2830.5	2787.2	2749.2	2718.5	2700.4	2686.0
35°	2736.6	2689.6	2649.9	2613.8	2575.8	2556.0	2528.9	2507.2	2494.5	2487.3	2485.5
37.5°	2313.9	2286.8	2274.2	2266.9	2259.7	2254.3	2257.9	2266.9	2274.2	2286.8	2301.2
40°	1862.3	1885.8	1893.0	1918.3	1941.8	1972.5	2006.8	2046.6	2079.1	2120.6	2149.5
42.5°	1450.5	1493.8	1544.4	1598.6	1656.4	1712.4	1781.0	1844.2	1902.1	1954.4	1999.6
45°	1114.5	1181.3	1257.2	1334.9	1412.6	1493.8	1576.9	1654.6	1723.2	1779.2	1826.2
47.5°	868.8	942.9	1040.5	1136.2	1230.1	1325.8	1418.0	1499.2	1557.0	1611.2	1652.8
50°	688.2	773.1	879.7	989.9	1092.8	1194.0	1291.5	1367.4	1425.2	1468.6	1499.2
52.5°	532.8	634.0	742.4	858.0	968.2	1078.4	1168.7	1239.1	1286.1	1324.0	1347.5
55°	397.4	496.7	612.4	731.6	843.6	950.1	1035.0	1096.5	1138.0	1159.7	1172.3
57.5°	287.2	377.5	493.1	612.4	713.5	814.7	883.3	939.3	962.8	975.4	980.8
60°	209.5	292.6	395.6	498.6	594.3	675.6	735.2	773.1	791.2	798.4	796.6
62.5°	153.5	225.8	314.3	401.0	478.7	545.5	592.5	617.8	626.8	630.4	625.0
65°	117.4	173.4	249.3	316.1	375.7	424.5	458.8	475.1	480.5	478.7	475.1
67.5°	86.7	130.1	186.1	236.6	280.0	317.9	336.0	350.4	354.0	348.6	343.2
70°	61.4	95.7	135.5	169.8	202.3	224.0	243.8	245.7	245.7	243.8	240.3
72.5°	43.4	66.8	92.1	115.6	135.5	151.7	158.9	164.4	162.6	160.7	157.2
75°	28.9	41.5	66.8	72.3	90.3	95.7	103.0	103.0	104.7	99.4	99.4
77.5°	18.1	28.9	39.7	47.0	54.2	61.4	65.0	65.0	66.8	65.0	65.0
80°	10.8	18.1	21.7	32.5	32.5	37.9	39.7	41.5	37.9	43.4	37.9
82.5°	7.2	10.8	16.3	16.3	19.9	23.5	23.5	25.3	25.3	23.5	23.5
85°	5.4	7.2	9.0	10.8	10.8	12.6	10.8	10.8	12.6	14.5	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: P248498

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3403.1	3403.1	3403.1	3403.1
2.5°	3406.7	3408.5	3406.7	3406.7
5°	3423.0	3421.2	3423.0	3419.4
7.5°	3435.6	3435.6	3433.8	3433.8
10°	3435.6	3428.4	3428.4	3428.4
12.5°	3408.5	3399.5	3394.1	3390.5
15°	3361.6	3345.3	3338.1	3336.3
17.5°	3300.2	3285.7	3276.7	3271.3
20°	3229.7	3215.3	3204.4	3206.2
22.5°	3168.3	3152.1	3144.8	3141.2
25°	3106.9	3087.0	3081.6	3078.0
27.5°	3007.5	2996.7	2991.3	2985.9
30°	2855.8	2850.4	2841.3	2854.0
32.5°	2680.6	2671.5	2664.3	2669.8
35°	2487.3	2481.9	2487.3	2483.7
37.5°	2310.3	2315.7	2322.9	2326.5
40°	2171.2	2191.1	2198.3	2201.9
42.5°	2032.1	2055.6	2070.0	2079.1
45°	1860.5	1884.0	1900.2	1911.1
47.5°	1683.5	1703.4	1719.6	1717.8
50°	1522.7	1533.6	1540.8	1548.0
52.5°	1360.1	1360.1	1362.0	1362.0
55°	1175.9	1172.3	1170.5	1172.3
57.5°	973.6	970.0	968.2	962.8
60°	789.4	778.5	771.3	771.3
62.5°	617.8	605.1	599.7	597.9
65°	464.2	462.4	451.6	449.8
67.5°	336.0	328.7	321.5	323.4
70°	236.6	225.8	225.8	222.2
72.5°	153.5	148.1	146.3	146.3
75°	95.7	95.7	92.1	99.4
77.5°	63.2	63.2	61.4	63.2
80°	37.9	37.9	37.9	36.1
82.5°	23.5	25.3	23.5	23.5
85°	12.6	14.5	10.8	16.3
87.5°	7.2	9.0	7.2	9.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)