

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: P249363

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249363
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: LSR8B80D010 EC8B80935 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7075.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

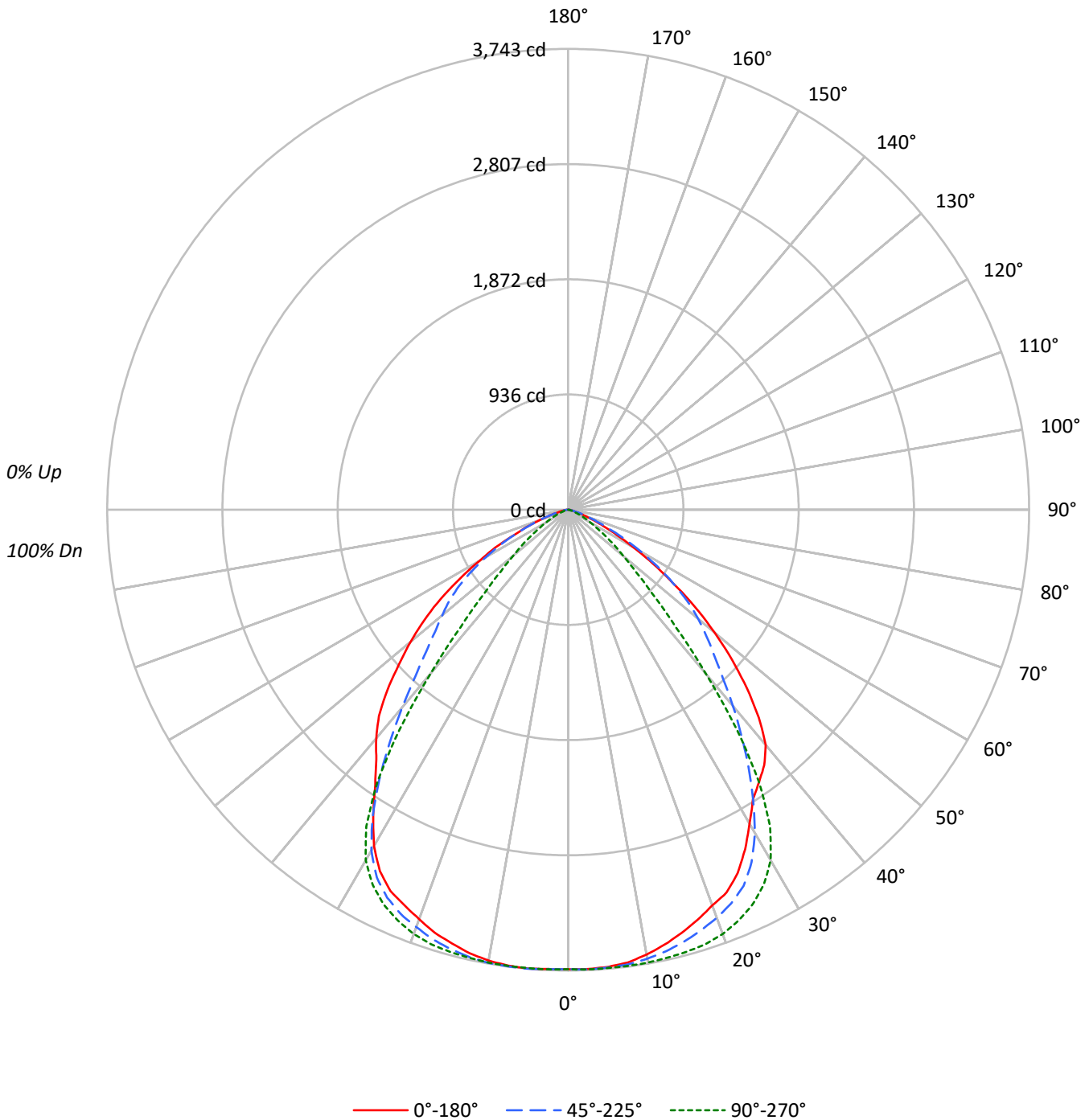
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115109	115109	115109
5°	115363	115672	115796
10°	114878	116947	116446
15°	113605	118659	116421
20°	112242	120327	116120
25°	110782	120466	116237
30°	104808	117078	112296
35°	101677	101752	102810
40°	100418	70010	97596
45°	89477	42030	90698
50°	74401	27973	80167
55°	55799	19284	67971
60°	37811	12853	51287
65°	22809	8333	35235
70°	12649	4517	21674
75°	5731	1906	11223
80°	4972	2131	7831
85°	5661	2830	7819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.3	5.0
10°-20°	1034.6	14.6
20°-30°	1570.3	22.2
30°-40°	1649.3	23.3
40°-50°	1236.6	17.5
50°-60°	793.4	11.2
60°-70°	339.4	4.8
70°-80°	80.2	1.1
80°-90°	14.9	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°	2961.2	41.9
0°-40°	4610.5	65.2
0°-60°	6640.5	93.9
0°-90°	7075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7075.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3733	3733	3733	3733	3733	
5°	3727	3733	3737	3743	3741	354
15°	3559	3633	3717	3693	3647	1004
25°	3256	3370	3541	3476	3416	1487
35°	2701	2551	2703	2671	2731	1695
45°	2052	1677	964	1629	2080	1571
55°	1038	1038	359	1082	1264	941
65°	313	369	114	475	483	334
75°	48	56	16	96	94	70
85°	16	10	8	16	22	17
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°	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9
2.5°	3734.9	3738.9	3736.9	3736.9	3734.9	3736.9	3736.9	3740.9	3740.9	3736.9	3734.9
5°	3726.9	3730.9	3730.9	3726.9	3726.9	3736.9	3730.9	3734.9	3734.9	3732.9	3732.9
7.5°	3708.9	3708.9	3716.9	3710.9	3710.9	3716.9	3714.9	3718.9	3722.9	3724.9	3724.9
10°	3668.8	3672.8	3674.8	3674.8	3676.8	3682.8	3686.8	3694.9	3698.8	3702.9	3704.9
12.5°	3618.7	3624.7	3626.7	3624.7	3630.7	3638.7	3648.8	3658.8	3664.8	3672.8	3678.8
15°	3558.6	3558.6	3562.6	3568.6	3572.6	3584.6	3594.7	3606.7	3622.7	3632.7	3642.7
17.5°	3492.5	3496.5	3502.5	3502.5	3510.5	3530.5	3536.6	3554.6	3572.6	3582.6	3602.7
20°	3420.4	3424.3	3430.4	3434.4	3444.4	3460.4	3472.4	3488.5	3508.5	3526.6	3546.6
22.5°	3364.2	3356.2	3360.2	3364.2	3374.3	3388.3	3402.3	3422.3	3442.4	3460.4	3480.5
25°	3256.0	3258.0	3264.1	3268.0	3280.1	3292.1	3308.1	3332.2	3350.2	3370.3	3392.3
27.5°	3109.8	3111.8	3121.8	3121.8	3131.8	3151.8	3161.8	3181.9	3206.0	3226.0	3252.0
30°	2943.5	2947.4	2947.4	2955.5	2961.5	2971.5	2981.5	3001.6	3013.6	3031.6	3067.7
32.5°	2791.2	2795.2	2793.1	2791.2	2785.2	2783.1	2781.1	2785.2	2789.2	2795.2	2809.2
35°	2701.0	2691.0	2683.0	2669.0	2652.9	2632.9	2614.8	2590.8	2568.8	2550.7	2530.7
37.5°	2614.8	2612.8	2600.8	2580.8	2548.7	2512.7	2470.6	2418.5	2366.4	2310.3	2256.2
40°	2494.6	2488.6	2478.6	2450.5	2414.5	2370.4	2314.3	2250.2	2166.0	2079.8	1991.7
42.5°	2290.2	2292.2	2280.2	2258.2	2224.1	2182.0	2123.9	2053.8	1963.7	1861.4	1747.2
45°	2051.8	2051.8	2047.8	2029.7	2005.7	1971.6	1927.6	1869.5	1781.3	1677.1	1554.9
47.5°	1803.3	1805.3	1799.3	1795.3	1785.3	1763.3	1731.2	1687.1	1625.0	1524.8	1402.6
50°	1550.9	1550.9	1560.9	1558.9	1558.9	1550.9	1536.9	1510.8	1456.7	1376.5	1262.4
52.5°	1298.4	1302.4	1308.4	1316.4	1326.4	1342.5	1326.4	1314.4	1280.4	1218.2	1120.1
55°	1037.9	1041.9	1051.9	1066.0	1078.0	1094.0	1098.0	1098.0	1080.0	1037.9	963.8
57.5°	815.5	809.5	817.5	829.5	845.6	861.6	873.6	887.6	885.6	857.6	797.5
60°	613.1	615.1	621.1	633.2	645.2	659.2	675.3	687.3	693.3	679.3	641.2
62.5°	446.8	446.8	454.8	466.8	472.9	492.9	502.9	509.0	514.9	512.9	488.9
65°	312.6	316.6	320.6	326.6	332.6	344.6	350.6	362.7	366.7	368.7	350.6
67.5°	220.4	214.4	218.4	222.4	228.4	236.5	248.5	248.5	254.5	254.5	242.4
70°	140.3	140.3	142.3	148.3	152.3	154.3	158.3	162.3	168.3	166.3	166.3
72.5°	94.2	92.2	94.2	96.2	98.2	104.2	104.2	106.2	110.2	112.2	104.2
75°	48.1	50.1	54.1	52.1	58.1	54.1	56.1	62.1	60.1	56.1	56.1
77.5°	40.1	40.1	40.1	38.1	42.1	42.1	40.1	44.1	42.1	42.1	40.1
80°	28.0	30.1	28.0	26.0	28.0	26.0	26.0	26.0	26.0	26.0	24.0
82.5°	22.1	18.0	20.1	18.0	20.1	20.1	18.0	16.0	16.0	18.0	16.0
85°	16.0	12.0	14.0	14.0	12.0	12.0	12.0	12.0	12.0	10.0	10.0
87.5°	10.0	6.0	6.0	6.0	8.0	8.0	8.0	6.0	8.0	8.0	4.0
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°	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9
2.5°	3738.9	3736.9	3740.9	3738.9	3738.9	3736.9	3738.9	3736.9	3740.9	3732.9	3734.9
5°	3738.9	3734.9	3736.9	3738.9	3740.9	3736.9	3736.9	3736.9	3740.9	3736.9	3738.9
7.5°	3730.9	3728.9	3734.9	3738.9	3736.9	3734.9	3738.9	3736.9	3740.9	3738.9	3742.9
10°	3714.9	3716.9	3720.9	3726.9	3728.9	3730.9	3734.9	3734.9	3740.9	3732.9	3736.9
12.5°	3690.8	3698.8	3708.9	3712.9	3720.9	3720.9	3724.9	3726.9	3730.9	3728.9	3734.9
15°	3660.8	3670.8	3682.8	3692.9	3702.9	3708.9	3714.9	3716.9	3722.9	3716.9	3718.9
17.5°	3624.7	3636.7	3654.8	3666.8	3682.8	3688.8	3696.8	3700.8	3706.9	3702.9	3704.9
20°	3574.6	3588.7	3608.7	3626.7	3636.7	3650.7	3660.8	3666.8	3670.8	3666.8	3668.8
22.5°	3504.5	3524.5	3550.6	3564.6	3584.6	3596.7	3598.7	3612.7	3622.7	3612.7	3616.7
25°	3422.3	3442.4	3462.4	3492.5	3510.5	3524.5	3538.6	3540.6	3550.6	3548.6	3546.6
27.5°	3286.1	3312.2	3346.2	3370.3	3394.3	3416.3	3432.4	3436.3	3446.4	3442.4	3444.4
30°	3099.7	3127.8	3159.9	3197.9	3232.0	3254.0	3274.1	3288.1	3298.1	3292.1	3290.1
32.5°	2835.3	2863.3	2897.4	2935.4	2975.5	3007.5	3031.6	3049.7	3061.7	3057.7	3047.7
35°	2532.7	2540.7	2562.8	2592.8	2626.8	2660.9	2683.0	2703.0	2717.0	2721.0	2721.0
37.5°	2222.1	2196.1	2180.1	2180.1	2200.1	2214.1	2234.1	2246.1	2268.2	2276.2	2282.2
40°	1921.5	1861.4	1805.3	1763.3	1735.2	1733.2	1733.2	1739.2	1759.3	1785.3	1809.4
42.5°	1653.1	1556.9	1470.7	1392.6	1336.5	1304.4	1290.4	1292.4	1308.4	1332.5	1372.5
45°	1438.7	1318.4	1210.2	1116.1	1039.9	989.8	965.8	963.8	975.8	1003.8	1048.0
47.5°	1272.4	1144.1	1021.9	913.7	831.6	777.4	749.4	741.4	749.4	775.4	827.5
50°	1134.1	1001.9	875.6	763.4	675.3	619.2	593.1	583.1	593.1	615.1	667.2
52.5°	1005.8	869.6	751.4	643.2	549.0	500.9	472.9	466.8	472.9	498.9	541.0
55°	857.6	741.4	625.2	516.9	434.8	386.7	364.7	358.7	364.7	388.7	432.8
57.5°	711.3	611.1	509.0	410.8	340.6	298.5	278.5	270.5	284.5	300.5	352.7
60°	575.0	494.9	408.7	322.6	264.5	226.4	210.4	208.4	212.4	232.4	268.5
62.5°	450.9	384.7	316.6	246.5	198.4	182.3	162.3	160.3	164.3	176.3	204.4
65°	324.6	282.5	230.4	180.3	142.3	120.2	112.2	114.2	118.2	126.2	152.3
67.5°	226.4	196.4	160.3	126.2	98.2	88.2	80.2	78.1	80.2	94.2	108.2
70°	152.3	134.2	108.2	96.2	68.1	54.1	56.1	50.1	58.1	58.1	70.1
72.5°	100.2	88.2	72.1	56.1	48.1	38.1	38.1	36.1	40.1	42.1	52.1
75°	52.1	40.1	40.1	28.0	20.1	10.0	18.0	16.0	14.0	16.0	20.1
77.5°	36.1	30.1	28.0	22.1	20.1	16.0	16.0	16.0	16.0	18.0	20.1
80°	22.1	22.1	16.0	14.0	12.0	10.0	12.0	12.0	12.0	12.0	14.0
82.5°	14.0	12.0	12.0	10.0	10.0	8.0	8.0	8.0	8.0	8.0	12.0
85°	12.0	8.0	8.0	6.0	8.0	14.0	6.0	8.0	8.0	8.0	6.0
87.5°	4.0	6.0	6.0	6.0	4.0	2.0	4.0	6.0	6.0	10.0	8.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9	3732.9
2.5°	3738.9	3740.9	3740.9	3738.9	3738.9	3734.9	3742.9	3736.9	3738.9	3746.9	3740.9
5°	3742.9	3744.9	3744.9	3742.9	3742.9	3742.9	3744.9	3744.9	3742.9	3740.9	3744.9
7.5°	3751.0	3748.9	3748.9	3744.9	3744.9	3740.9	3744.9	3738.9	3742.9	3738.9	3744.9
10°	3740.9	3742.9	3740.9	3738.9	3738.9	3736.9	3736.9	3730.9	3732.9	3726.9	3730.9
12.5°	3734.9	3732.9	3732.9	3728.9	3724.9	3720.9	3718.9	3712.9	3712.9	3698.8	3704.9
15°	3718.9	3720.9	3714.9	3706.9	3702.9	3692.9	3688.8	3680.8	3672.8	3662.8	3664.8
17.5°	3704.9	3698.8	3690.8	3682.8	3666.8	3658.8	3650.7	3638.7	3634.7	3622.7	3618.7
20°	3662.8	3658.8	3648.8	3634.7	3624.7	3606.7	3598.7	3586.7	3576.6	3564.6	3558.6
22.5°	3608.7	3604.7	3592.6	3578.6	3562.6	3554.6	3546.6	3524.5	3514.5	3502.5	3500.5
25°	3540.6	3534.5	3522.5	3506.5	3498.5	3476.4	3468.4	3452.4	3448.4	3436.3	3434.4
27.5°	3436.3	3428.3	3414.3	3394.3	3380.3	3366.2	3358.2	3346.2	3342.2	3330.1	3328.2
30°	3280.1	3270.0	3242.0	3234.0	3209.9	3195.9	3195.9	3179.9	3181.9	3173.9	3173.9
32.5°	3033.6	3017.6	2995.5	2979.5	2963.5	2955.5	2955.5	2949.4	2953.5	2953.5	2957.5
35°	2707.0	2685.0	2672.9	2662.9	2662.9	2670.9	2695.0	2701.0	2713.0	2723.0	2731.1
37.5°	2288.2	2286.3	2300.3	2312.3	2342.3	2376.4	2418.5	2454.6	2488.6	2512.7	2536.7
40°	1835.4	1885.5	1925.6	1981.7	2027.7	2093.9	2170.0	2232.1	2290.2	2332.3	2376.4
42.5°	1432.6	1496.8	1580.9	1663.1	1745.2	1835.4	1935.6	2021.7	2097.9	2156.0	2202.1
45°	1116.1	1204.2	1306.4	1410.6	1516.8	1629.0	1733.2	1821.4	1901.5	1961.6	2007.7
47.5°	899.7	995.8	1112.0	1226.3	1346.5	1464.7	1580.9	1657.1	1723.2	1771.3	1813.4
50°	743.4	845.6	967.8	1098.0	1218.2	1336.5	1436.7	1510.8	1564.9	1607.0	1633.0
52.5°	621.1	729.3	859.6	989.8	1110.0	1218.2	1308.4	1364.5	1408.6	1438.7	1462.7
55°	512.9	617.2	739.4	861.6	979.8	1082.0	1156.1	1198.2	1232.3	1250.3	1264.3
57.5°	418.8	514.9	627.2	739.4	841.6	925.7	983.8	1025.9	1041.9	1056.0	1053.9
60°	328.6	418.8	521.0	617.2	705.3	773.4	815.5	839.5	851.6	857.6	853.6
62.5°	258.5	340.6	418.8	502.9	567.1	625.2	665.3	665.3	671.2	673.2	679.3
65°	192.3	254.5	322.6	384.7	436.8	474.9	496.9	502.9	511.0	509.0	504.9
67.5°	142.3	188.4	238.4	284.5	320.6	344.6	360.6	374.7	372.7	368.7	366.7
70°	98.2	128.3	172.3	200.4	226.4	250.5	254.5	256.5	258.5	260.5	256.5
72.5°	68.1	90.2	114.2	138.3	154.3	164.3	174.3	176.3	176.3	176.3	174.3
75°	34.1	46.1	68.1	78.1	92.2	96.2	104.2	104.2	110.2	102.2	100.2
77.5°	30.1	36.1	48.1	56.1	62.1	68.1	70.1	76.1	74.1	70.1	72.1
80°	18.0	22.1	30.1	34.1	42.1	44.1	46.1	48.1	46.1	48.1	48.1
82.5°	14.0	16.0	20.1	20.1	26.0	26.0	28.0	28.0	30.1	30.1	30.1
85°	8.0	14.0	12.0	24.0	16.0	16.0	20.1	24.0	20.1	20.1	24.0
87.5°	8.0	8.0	6.0	8.0	8.0	8.0	10.0	12.0	12.0	14.0	12.0
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: P249363

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3732.9	3732.9	3732.9	3732.9
2.5°	3738.9	3742.9	3736.9	3734.9
5°	3744.9	3744.9	3740.9	3740.9
7.5°	3744.9	3744.9	3738.9	3734.9
10°	3728.9	3728.9	3722.9	3718.9
12.5°	3698.8	3698.8	3696.8	3690.8
15°	3660.8	3660.8	3652.7	3646.8
17.5°	3608.7	3612.7	3602.7	3602.7
20°	3552.6	3550.6	3542.6	3538.6
22.5°	3494.5	3490.5	3488.5	3476.4
25°	3432.4	3428.3	3422.3	3416.3
27.5°	3326.2	3324.2	3318.1	3310.1
30°	3163.8	3161.8	3153.8	3153.8
32.5°	2953.5	2951.5	2943.5	2945.5
35°	2735.1	2743.1	2739.1	2731.1
37.5°	2552.7	2558.7	2562.8	2558.7
40°	2400.4	2418.5	2420.5	2424.5
42.5°	2238.2	2262.2	2270.2	2274.2
45°	2043.8	2065.8	2083.9	2079.8
47.5°	1845.4	1861.4	1877.5	1865.4
50°	1655.1	1665.1	1671.1	1671.1
52.5°	1474.7	1474.7	1472.7	1474.7
55°	1268.3	1268.3	1260.4	1264.3
57.5°	1051.9	1056.0	1049.9	1039.9
60°	851.6	841.6	837.5	831.6
62.5°	663.2	663.2	649.2	667.2
65°	496.9	490.9	484.9	482.9
67.5°	360.6	358.7	352.7	350.6
70°	254.5	246.5	244.5	240.4
72.5°	170.3	170.3	166.3	166.3
75°	104.2	94.2	92.2	94.2
77.5°	72.1	70.1	70.1	68.1
80°	48.1	46.1	50.1	44.1
82.5°	30.1	32.1	30.1	32.1
85°	20.1	24.0	22.1	22.1
87.5°	12.0	12.0	12.0	12.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)