

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: P249264

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249264
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 EC8B80940 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7521.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

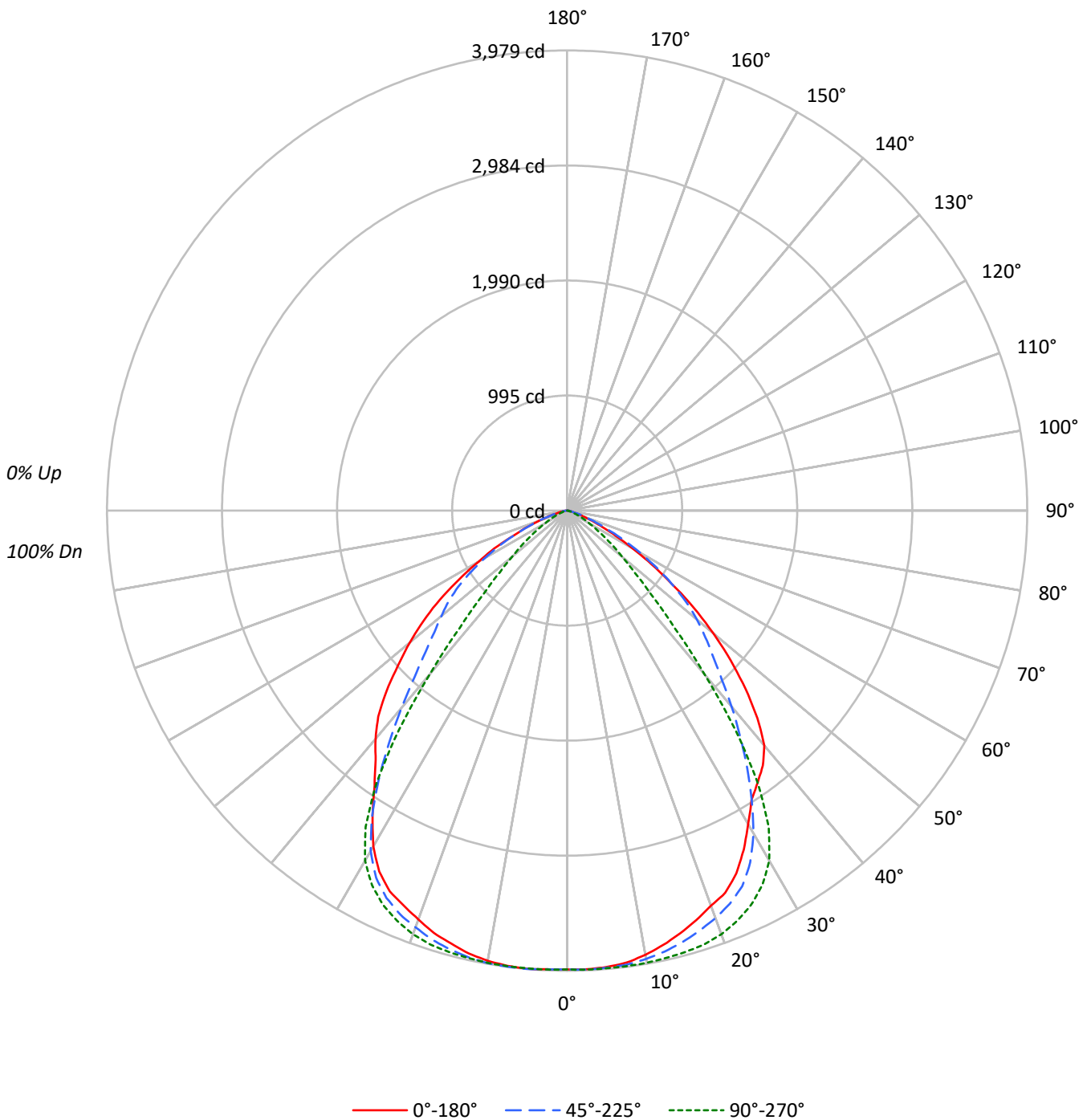
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	122365	122365	122365
5°	122634	122965	123098
10°	122120	124321	123786
15°	120766	126139	123760
20°	119317	127911	123438
25°	117768	128060	123565
30°	111413	124460	119379
35°	108088	108167	109289
40°	106749	74422	103747
45°	95116	44678	96420
50°	79093	29734	85219
55°	59315	20499	72255
60°	40198	13660	54519
65°	24246	8858	37453
70°	13443	4805	23045
75°	6088	2025	11926
80°	5292	2273	8328
85°	6015	3007	8314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.7	5.0
10°-20°	1099.8	14.6
20°-30°	1669.3	22.2
30°-40°	1753.3	23.3
40°-50°	1314.5	17.5
50°-60°	843.4	11.2
60°-70°	360.8	4.8
70°-80°	85.2	1.1
80°-90°	15.9	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°	3147.9	41.9
0°-40°	4901.2	65.2
0°-60°	7059.1	93.9
0°-90°	7521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3968	3968	3968	3968	3968	
5°	3962	3968	3972	3979	3977	376
15°	3783	3862	3951	3926	3877	1067
25°	3461	3583	3764	3696	3632	1581
35°	2871	2712	2873	2839	2903	1802
45°	2181	1783	1024	1732	2211	1670
55°	1103	1103	381	1150	1344	1001
65°	332	392	121	505	513	355
75°	51	60	17	102	100	74
85°	17	11	8	17	24	18
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°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3970.4	3974.6	3972.5	3972.5	3970.4	3972.5	3972.5	3976.8	3976.8	3972.5	3970.4
5°	3961.8	3966.1	3966.1	3961.8	3961.8	3972.5	3966.1	3970.4	3970.4	3968.2	3968.2
7.5°	3942.7	3942.7	3951.2	3944.8	3944.8	3951.2	3949.0	3953.3	3957.6	3959.7	3959.7
10°	3900.1	3904.3	3906.5	3906.5	3908.6	3915.0	3919.2	3927.8	3932.0	3936.3	3938.4
12.5°	3846.8	3853.2	3855.3	3853.2	3859.6	3868.1	3878.8	3889.4	3895.8	3904.3	3910.7
15°	3782.9	3782.9	3787.2	3793.6	3797.9	3810.6	3821.3	3834.0	3851.1	3861.7	3872.4
17.5°	3712.6	3716.9	3723.3	3723.3	3731.8	3753.1	3759.5	3778.7	3797.9	3808.5	3829.8
20°	3636.0	3640.2	3646.6	3650.9	3661.5	3678.6	3691.3	3708.4	3729.7	3748.9	3770.1
22.5°	3576.3	3567.8	3572.0	3576.3	3587.0	3601.9	3616.8	3638.1	3659.4	3678.6	3699.9
25°	3461.3	3463.4	3469.8	3474.0	3486.9	3499.6	3516.7	3542.2	3561.4	3582.7	3606.1
27.5°	3305.8	3307.9	3318.6	3318.6	3329.2	3350.5	3361.2	3382.5	3408.1	3429.3	3457.1
30°	3129.0	3133.2	3133.2	3141.8	3148.1	3158.8	3169.5	3190.8	3203.5	3222.7	3261.1
32.5°	2967.1	2971.4	2969.2	2967.1	2960.7	2958.6	2956.5	2960.7	2965.0	2971.4	2986.3
35°	2871.3	2860.6	2852.1	2837.2	2820.2	2798.9	2779.7	2754.1	2730.7	2711.5	2690.2
37.5°	2779.7	2777.5	2764.8	2743.5	2709.4	2671.1	2626.3	2570.9	2515.5	2455.9	2398.4
40°	2651.9	2645.5	2634.8	2605.0	2566.7	2519.8	2460.2	2392.0	2302.5	2211.0	2117.2
42.5°	2434.6	2436.7	2424.0	2400.5	2364.3	2319.6	2257.8	2183.3	2087.4	1978.8	1857.4
45°	2181.1	2181.1	2176.9	2157.7	2132.2	2095.9	2049.1	1987.3	1893.6	1782.8	1652.9
47.5°	1917.0	1919.1	1912.7	1908.5	1897.8	1874.4	1840.3	1793.5	1727.5	1620.9	1491.0
50°	1648.7	1648.7	1659.3	1657.2	1657.2	1648.7	1633.7	1606.0	1548.5	1463.3	1341.9
52.5°	1380.2	1384.5	1390.9	1399.4	1410.1	1427.1	1410.1	1397.3	1361.1	1295.0	1190.7
55°	1103.3	1107.6	1118.2	1133.2	1146.0	1163.0	1167.2	1167.2	1148.1	1103.3	1024.5
57.5°	866.9	860.5	869.1	881.8	898.9	915.9	928.7	943.6	941.5	911.7	847.8
60°	651.8	653.9	660.3	673.1	685.9	700.8	717.8	730.6	737.0	722.1	681.6
62.5°	475.0	475.0	483.5	496.3	502.7	524.0	534.6	541.0	547.4	545.3	519.7
65°	332.3	336.5	340.8	347.2	353.6	366.3	372.7	385.5	389.8	391.9	372.7
67.5°	234.3	227.9	232.2	236.4	242.8	251.4	264.1	264.1	270.5	270.5	257.7
70°	149.1	149.1	151.2	157.6	161.9	164.0	168.3	172.5	178.9	176.8	176.8
72.5°	100.1	98.0	100.1	102.3	104.4	110.8	110.8	112.9	117.2	119.3	110.8
75°	51.1	53.3	57.5	55.4	61.8	57.5	59.6	66.0	63.9	59.6	59.6
77.5°	42.6	42.6	42.6	40.5	44.7	44.7	42.6	46.9	44.7	44.7	42.6
80°	29.8	31.9	29.8	27.7	29.8	27.7	27.7	27.7	27.7	27.7	25.5
82.5°	23.5	19.2	21.3	19.2	21.3	21.3	19.2	17.0	17.0	19.2	17.0
85°	17.0	12.8	14.9	14.9	12.8	12.8	12.8	12.8	12.8	10.6	10.6
87.5°	10.6	6.4	6.4	6.4	8.5	8.5	8.5	6.4	8.5	8.5	4.3
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°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3974.6	3972.5	3976.8	3974.6	3974.6	3972.5	3974.6	3972.5	3976.8	3968.2	3970.4
5°	3974.6	3970.4	3972.5	3974.6	3976.8	3972.5	3972.5	3972.5	3976.8	3972.5	3974.6
7.5°	3966.1	3964.0	3970.4	3974.6	3972.5	3970.4	3974.6	3972.5	3976.8	3974.6	3978.9
10°	3949.0	3951.2	3955.5	3961.8	3964.0	3966.1	3970.4	3970.4	3976.8	3968.2	3972.5
12.5°	3923.5	3932.0	3942.7	3946.9	3955.5	3955.5	3959.7	3961.8	3966.1	3964.0	3970.4
15°	3891.6	3902.2	3915.0	3925.6	3936.3	3942.7	3949.0	3951.2	3957.6	3951.2	3953.3
17.5°	3853.2	3866.0	3885.2	3897.9	3915.0	3921.4	3929.9	3934.1	3940.6	3936.3	3938.4
20°	3799.9	3814.9	3836.2	3855.3	3866.0	3880.9	3891.6	3897.9	3902.2	3897.9	3900.1
22.5°	3725.4	3746.7	3774.4	3789.3	3810.6	3823.4	3825.5	3840.4	3851.1	3840.4	3844.7
25°	3638.1	3659.4	3680.7	3712.6	3731.8	3746.7	3761.6	3763.8	3774.4	3772.3	3770.1
27.5°	3493.2	3520.9	3557.1	3582.7	3608.2	3631.7	3648.7	3653.0	3663.6	3659.4	3661.5
30°	3295.1	3325.0	3359.1	3399.5	3435.7	3459.1	3480.5	3495.4	3506.0	3499.6	3497.5
32.5°	3014.0	3043.8	3080.0	3120.5	3163.1	3197.1	3222.7	3241.9	3254.7	3250.4	3239.8
35°	2692.4	2700.9	2724.3	2756.3	2792.4	2828.7	2852.1	2873.4	2888.3	2892.6	2892.6
37.5°	2362.2	2334.5	2317.5	2317.5	2338.8	2353.7	2375.0	2387.7	2411.2	2419.7	2426.1
40°	2042.7	1978.8	1919.1	1874.4	1844.6	1842.5	1842.5	1848.8	1870.2	1897.8	1923.4
42.5°	1757.3	1655.0	1563.4	1480.4	1420.7	1386.7	1371.8	1373.9	1390.9	1416.5	1459.0
45°	1529.4	1401.6	1286.5	1186.4	1105.5	1052.2	1026.7	1024.5	1037.3	1067.1	1114.0
47.5°	1352.6	1216.2	1086.3	971.3	884.0	826.4	796.6	788.1	796.6	824.3	879.7
50°	1205.6	1065.0	930.8	811.5	717.8	658.2	630.5	619.8	630.5	653.9	709.3
52.5°	1069.3	924.4	798.8	683.7	583.6	532.5	502.7	496.3	502.7	530.4	575.1
55°	911.7	788.1	664.6	549.5	462.2	411.1	387.7	381.3	387.7	413.2	460.1
57.5°	756.2	649.7	541.0	436.6	362.1	317.3	296.1	287.5	302.4	319.5	374.9
60°	611.3	526.1	434.5	342.9	281.2	240.7	223.6	221.5	225.8	247.1	285.4
62.5°	479.3	409.0	336.5	262.0	210.9	193.8	172.5	170.4	174.6	187.4	217.3
65°	345.1	300.4	245.0	191.7	151.2	127.8	119.3	121.4	125.7	134.2	161.9
67.5°	240.7	208.7	170.4	134.2	104.4	93.7	85.2	83.1	85.2	100.1	115.0
70°	161.9	142.7	115.0	102.3	72.4	57.5	59.6	53.3	61.8	61.8	74.5
72.5°	106.5	93.7	76.7	59.6	51.1	40.5	40.5	38.4	42.6	44.7	55.4
75°	55.4	42.6	42.6	29.8	21.3	10.6	19.2	17.0	14.9	17.0	21.3
77.5°	38.4	31.9	29.8	23.5	21.3	17.0	17.0	17.0	17.0	19.2	21.3
80°	23.5	23.5	17.0	14.9	12.8	10.6	12.8	12.8	12.8	12.8	14.9
82.5°	14.9	12.8	12.8	10.6	10.6	8.5	8.5	8.5	8.5	8.5	12.8
85°	12.8	8.5	8.5	6.4	8.5	14.9	6.4	8.5	8.5	8.5	6.4
87.5°	4.3	6.4	6.4	6.4	4.3	2.1	4.3	6.4	6.4	10.6	8.5
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°	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2	3968.2
2.5°	3974.6	3976.8	3976.8	3974.6	3974.6	3970.4	3978.9	3972.5	3974.6	3983.1	3976.8
5°	3978.9	3981.0	3981.0	3978.9	3978.9	3978.9	3981.0	3981.0	3978.9	3976.8	3981.0
7.5°	3987.4	3985.3	3985.3	3981.0	3981.0	3976.8	3981.0	3974.6	3978.9	3974.6	3981.0
10°	3976.8	3978.9	3976.8	3974.6	3974.6	3972.5	3972.5	3966.1	3968.2	3961.8	3966.1
12.5°	3970.4	3968.2	3968.2	3964.0	3959.7	3955.5	3953.3	3946.9	3946.9	3932.0	3938.4
15°	3953.3	3955.5	3949.0	3940.6	3936.3	3925.6	3921.4	3912.8	3904.3	3893.7	3895.8
17.5°	3938.4	3932.0	3923.5	3915.0	3897.9	3889.4	3880.9	3868.1	3863.8	3851.1	3846.8
20°	3893.7	3889.4	3878.8	3863.8	3853.2	3834.0	3825.5	3812.8	3802.1	3789.3	3782.9
22.5°	3836.2	3831.9	3819.1	3804.2	3787.2	3778.7	3770.1	3746.7	3736.0	3723.3	3721.1
25°	3763.8	3757.4	3744.6	3727.5	3719.0	3695.6	3687.1	3670.0	3665.8	3653.0	3650.9
27.5°	3653.0	3644.5	3629.6	3608.2	3593.3	3578.4	3569.9	3557.1	3552.9	3540.1	3538.0
30°	3486.9	3476.2	3446.4	3437.9	3412.3	3397.4	3397.4	3380.3	3382.5	3374.0	3374.0
32.5°	3224.9	3207.8	3184.4	3167.3	3150.3	3141.8	3141.8	3135.4	3139.7	3139.7	3143.9
35°	2877.7	2854.3	2841.4	2830.8	2830.8	2839.3	2864.9	2871.3	2884.1	2894.7	2903.2
37.5°	2432.5	2430.4	2445.3	2458.1	2490.0	2526.2	2570.9	2609.3	2645.5	2671.1	2696.6
40°	1951.1	2004.4	2046.9	2106.6	2155.6	2225.9	2306.8	2372.8	2434.6	2479.4	2526.2
42.5°	1522.9	1591.1	1680.6	1767.9	1855.3	1951.1	2057.6	2149.2	2230.1	2291.9	2340.9
45°	1186.4	1280.1	1388.8	1499.5	1612.4	1731.7	1842.5	1936.2	2021.4	2085.3	2134.3
47.5°	956.4	1058.6	1182.1	1303.6	1431.4	1557.0	1680.6	1761.5	1831.8	1882.9	1927.7
50°	790.2	898.9	1028.8	1167.2	1295.0	1420.7	1527.2	1606.0	1663.6	1708.3	1736.0
52.5°	660.3	775.3	913.8	1052.2	1180.0	1295.0	1390.9	1450.6	1497.4	1529.4	1554.9
55°	545.3	656.1	786.0	915.9	1041.6	1150.2	1229.0	1273.8	1309.9	1329.1	1344.0
57.5°	445.2	547.4	666.7	786.0	894.6	984.1	1045.9	1090.6	1107.6	1122.5	1120.4
60°	349.3	445.2	553.8	656.1	749.8	822.2	866.9	892.5	905.2	911.7	907.4
62.5°	274.8	362.1	445.2	534.6	602.8	664.6	707.2	707.2	713.6	715.7	722.1
65°	204.5	270.5	342.9	409.0	464.3	504.8	528.3	534.6	543.2	541.0	536.8
67.5°	151.2	200.2	253.5	302.4	340.8	366.3	383.4	398.3	396.2	391.9	389.8
70°	104.4	136.3	183.2	213.0	240.7	266.3	270.5	272.6	274.8	276.9	272.6
72.5°	72.4	95.8	121.4	147.0	164.0	174.6	185.3	187.4	187.4	187.4	185.3
75°	36.2	49.0	72.4	83.1	98.0	102.3	110.8	110.8	117.2	108.6	106.5
77.5°	31.9	38.4	51.1	59.6	66.0	72.4	74.5	80.9	78.8	74.5	76.7
80°	19.2	23.5	31.9	36.2	44.7	46.9	49.0	51.1	49.0	51.1	51.1
82.5°	14.9	17.0	21.3	21.3	27.7	27.7	29.8	29.8	31.9	31.9	31.9
85°	8.5	14.9	12.8	25.5	17.0	17.0	21.3	25.5	21.3	21.3	25.5
87.5°	8.5	8.5	6.4	8.5	8.5	8.5	10.6	12.8	12.8	14.9	12.8
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: P249264

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3968.2	3968.2	3968.2	3968.2
2.5°	3974.6	3978.9	3972.5	3970.4
5°	3981.0	3981.0	3976.8	3976.8
7.5°	3981.0	3981.0	3974.6	3970.4
10°	3964.0	3964.0	3957.6	3953.3
12.5°	3932.0	3932.0	3929.9	3923.5
15°	3891.6	3891.6	3883.0	3876.7
17.5°	3836.2	3840.4	3829.8	3829.8
20°	3776.5	3774.4	3765.9	3761.6
22.5°	3714.8	3710.5	3708.4	3695.6
25°	3648.7	3644.5	3638.1	3631.7
27.5°	3535.9	3533.7	3527.3	3518.8
30°	3363.3	3361.2	3352.7	3352.7
32.5°	3139.7	3137.5	3129.0	3131.2
35°	2907.5	2916.0	2911.7	2903.2
37.5°	2713.6	2720.0	2724.3	2720.0
40°	2551.8	2570.9	2573.1	2577.3
42.5°	2379.2	2404.8	2413.3	2417.6
45°	2172.6	2196.1	2215.2	2211.0
47.5°	1961.7	1978.8	1995.8	1983.0
50°	1759.4	1770.0	1776.4	1776.4
52.5°	1567.7	1567.7	1565.6	1567.7
55°	1348.3	1348.3	1339.8	1344.0
57.5°	1118.2	1122.5	1116.1	1105.5
60°	905.2	894.6	890.3	884.0
62.5°	705.1	705.1	690.1	709.3
65°	528.3	521.9	515.4	513.3
67.5°	383.4	381.3	374.9	372.7
70°	270.5	262.0	259.9	255.6
72.5°	181.1	181.1	176.8	176.8
75°	110.8	100.1	98.0	100.1
77.5°	76.7	74.5	74.5	72.4
80°	51.1	49.0	53.3	46.9
82.5°	31.9	34.1	31.9	34.1
85°	21.3	25.5	23.5	23.5
87.5°	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)