

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: P248528

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248528
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: LSR8B100D010 EC8B1009727 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7740.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

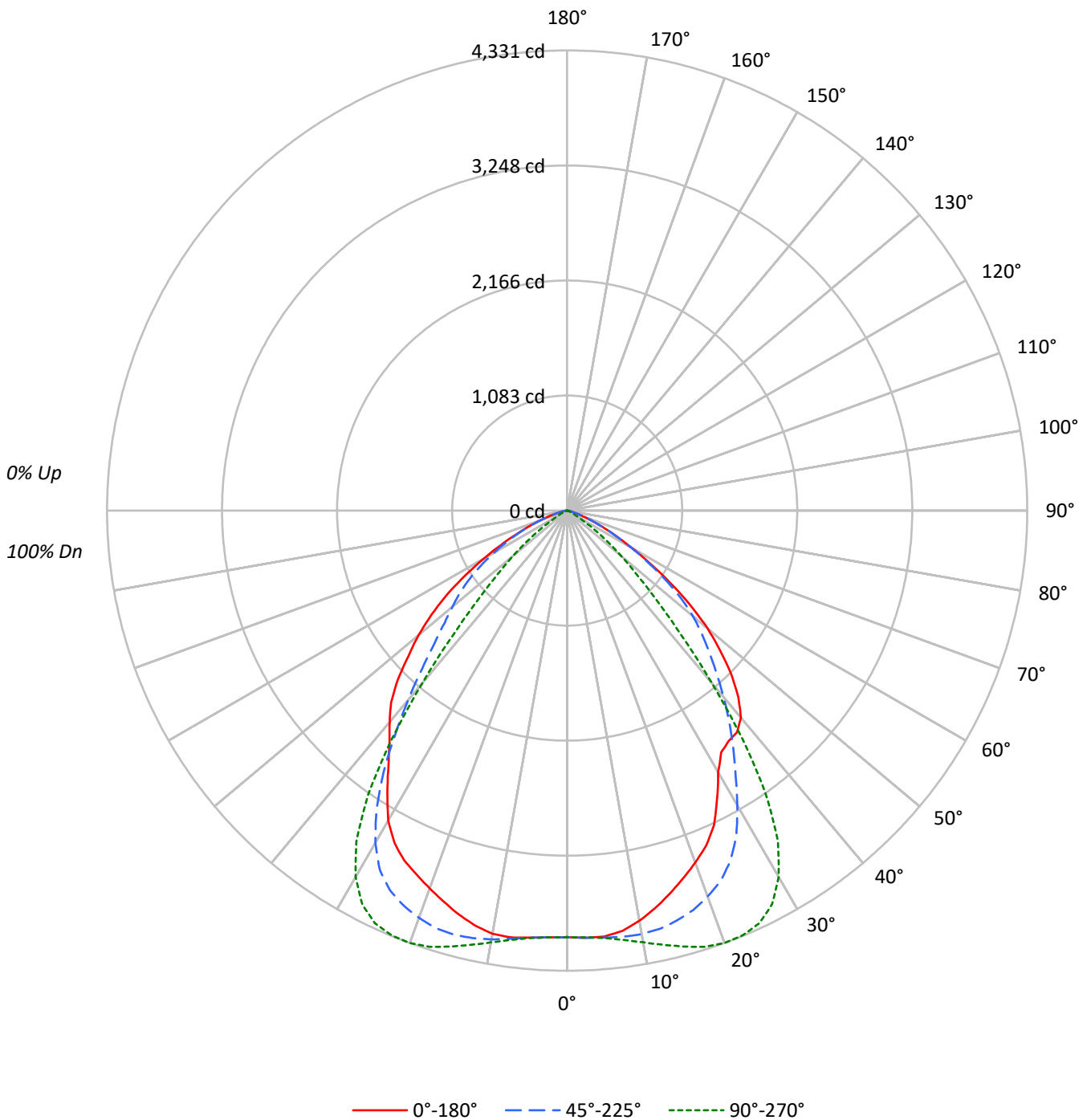
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70	70	70	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	45	45	45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41	41	41	41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38	38	38	38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34	34	34	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°	386.1	5.0
10°-20°	1143.9	14.8
20°-30°	1745.1	22.5
30°-40°	1821.1	23.5
40°-50°	1367.9	17.7
50°-60°	841.6	10.9
60°-70°	342.5	4.4
70°-80°	80.7	1.0
80°-90°	11.1	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°	3275.2	42.3
0°-40°	5096.2	65.8
0°-60°	7305.7	94.4
0°-90°	7740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7740.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4015	4015	4015	4015	4015	
5°	4024	4034	4039	4034	4034	381
15°	3732	3994	4248	4130	3936	1051
25°	3269	3636	4284	3945	3632	1486
35°	2649	2724	3263	3016	2930	1673
45°	2187	1893	1181	1762	2255	1668
55°	1181	1121	309	1121	1383	1061
65°	369	373	47	501	531	385
75°	64	64	8	113	117	77
85°	6	6	2	15	19	9
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°	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2
2.5°	4025.9	4019.5	4025.9	4025.9	4028.1	4023.8	4025.9	4028.1	4023.8	4023.8	4023.8
5°	4023.8	4019.5	4023.8	4021.7	4025.9	4025.9	4030.2	4030.2	4034.4	4034.4	4040.8
7.5°	3989.7	3981.2	3989.7	3996.1	4000.3	4008.9	4019.5	4028.1	4036.6	4045.1	4055.8
10°	3919.3	3919.3	3925.8	3938.5	3951.3	3966.2	3985.4	4006.7	4028.1	4047.2	4066.4
12.5°	3832.0	3825.6	3838.4	3855.4	3874.6	3898.1	3927.9	3959.9	3994.0	4032.3	4062.2
15°	3731.8	3725.4	3740.3	3757.4	3780.8	3814.9	3851.2	3893.8	3942.8	3994.0	4043.0
17.5°	3629.5	3627.4	3642.3	3665.7	3684.9	3721.1	3768.1	3819.2	3874.6	3942.8	4006.7
20°	3525.1	3523.0	3537.9	3557.1	3582.6	3616.7	3663.6	3723.3	3789.3	3866.1	3940.7
22.5°	3416.4	3418.5	3431.3	3452.6	3473.9	3510.1	3559.2	3618.9	3691.3	3774.4	3857.5
25°	3269.3	3258.7	3275.7	3297.1	3333.2	3363.1	3410.0	3473.9	3548.5	3635.9	3734.0
27.5°	3056.2	3054.0	3069.0	3088.2	3120.1	3156.4	3207.5	3273.6	3352.4	3448.3	3544.2
30°	2843.1	2847.3	2853.7	2872.9	2894.2	2930.5	2981.6	3037.0	3111.6	3203.2	3305.6
32.5°	2698.1	2698.1	2706.7	2719.5	2734.4	2753.6	2789.8	2830.3	2887.9	2951.8	3026.4
35°	2649.1	2640.6	2649.1	2651.3	2653.4	2657.7	2664.0	2676.9	2696.0	2723.7	2751.4
37.5°	2627.8	2621.4	2621.4	2612.9	2602.2	2589.5	2572.4	2553.2	2531.9	2504.2	2482.9
40°	2544.7	2540.4	2536.2	2527.7	2504.2	2478.6	2450.9	2406.2	2357.1	2288.9	2220.8
42.5°	2384.9	2380.6	2378.5	2361.4	2340.1	2310.3	2278.3	2231.4	2169.6	2082.2	1984.2
45°	2186.7	2178.1	2171.8	2156.8	2141.9	2116.3	2086.5	2043.8	1982.0	1892.6	1775.3
47.5°	1956.5	1952.2	1950.1	1943.7	1928.8	1913.8	1894.7	1860.6	1805.2	1719.9	1598.4
50°	1724.2	1715.7	1719.9	1717.8	1711.4	1700.8	1687.9	1664.5	1621.9	1545.1	1434.3
52.5°	1457.7	1457.7	1455.7	1462.0	1464.2	1462.0	1464.2	1438.6	1402.4	1344.8	1251.0
55°	1180.7	1180.7	1187.1	1195.6	1204.1	1206.3	1204.1	1193.5	1167.9	1121.0	1037.9
57.5°	920.7	916.4	929.2	942.0	950.6	959.1	952.6	944.1	929.2	890.8	826.9
60°	701.2	701.2	709.7	718.2	726.7	735.3	733.1	731.0	718.2	692.6	641.5
62.5°	515.7	517.9	517.9	524.3	532.8	541.3	547.7	541.3	534.9	517.9	483.8
65°	368.7	366.5	368.7	375.1	381.5	390.0	394.3	392.2	385.7	373.0	347.4
67.5°	247.2	245.1	253.6	255.7	260.0	268.6	266.4	268.6	266.4	255.7	234.5
70°	162.0	157.7	162.0	159.8	166.2	168.4	172.6	174.7	172.6	166.2	159.8
72.5°	100.2	98.0	100.2	102.3	104.5	106.5	110.8	110.8	108.7	104.5	95.9
75°	63.9	57.5	59.7	55.4	59.7	59.7	63.9	66.1	63.9	63.9	59.7
77.5°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	40.5	42.6	38.4	36.2
80°	19.2	19.2	21.3	21.3	21.3	23.5	21.3	21.3	21.3	23.5	17.1
82.5°	14.9	12.8	12.8	12.8	14.9	12.8	12.8	12.8	12.8	12.8	12.8
85°	6.4	8.5	6.4	4.3	6.4	6.4	8.5	6.4	6.4	6.4	8.5
87.5°	2.1	2.1	0.0	0.0	0.0	2.1	0.0	2.1	2.1	4.3	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°	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2
2.5°	4025.9	4021.7	4021.7	4019.5	4023.8	4019.5	4021.7	4019.5	4019.5	4023.8	4019.5
5°	4040.8	4043.0	4038.7	4036.6	4043.0	4043.0	4043.0	4038.7	4038.7	4040.8	4038.7
7.5°	4062.2	4066.4	4068.5	4070.7	4074.9	4077.1	4077.1	4074.9	4072.8	4079.2	4070.7
10°	4085.6	4092.0	4104.8	4111.2	4121.8	4121.8	4126.1	4126.1	4121.8	4126.1	4124.0
12.5°	4077.1	4115.4	4136.7	4151.7	4166.6	4179.3	4183.6	4185.8	4183.6	4192.2	4183.6
15°	4092.0	4124.0	4158.1	4183.6	4211.3	4226.2	4230.5	4247.6	4251.8	4254.0	4241.2
17.5°	4068.5	4126.1	4162.3	4200.7	4241.2	4268.9	4294.4	4305.1	4307.3	4311.5	4294.4
20°	4015.2	4079.2	4134.6	4190.0	4236.9	4279.5	4300.9	4330.7	4322.2	4339.2	4315.8
22.5°	3942.8	4015.2	4085.6	4158.1	4207.1	4258.2	4303.0	4324.3	4335.0	4335.0	4309.4
25°	3827.7	3913.0	3989.7	4064.3	4138.9	4200.7	4251.8	4283.8	4290.2	4288.1	4258.2
27.5°	3648.7	3740.3	3829.9	3915.1	4006.7	4079.2	4138.9	4177.2	4187.9	4187.9	4155.9
30°	3401.5	3499.5	3586.9	3689.2	3783.0	3864.0	3947.1	3981.2	4000.3	4000.3	3964.1
32.5°	3107.3	3190.5	3271.5	3371.6	3473.9	3565.6	3644.4	3691.3	3714.8	3712.6	3680.7
35°	2787.7	2828.1	2890.0	2964.6	3056.2	3141.4	3218.2	3263.0	3303.4	3301.3	3271.5
37.5°	2468.0	2457.3	2463.7	2491.4	2548.9	2608.7	2668.3	2711.0	2745.0	2760.0	2753.6
40°	2154.7	2099.3	2046.0	2026.8	2031.1	2052.4	2084.4	2116.3	2154.7	2173.9	2182.4
42.5°	1873.4	1779.6	1685.8	1615.5	1575.0	1562.2	1577.1	1587.8	1611.2	1638.9	1666.6
45°	1647.5	1521.7	1398.1	1289.4	1221.2	1180.7	1172.2	1180.7	1193.5	1221.2	1257.4
47.5°	1462.0	1315.0	1176.5	1055.0	954.8	901.5	886.6	882.3	895.1	920.7	969.7
50°	1297.9	1150.9	997.4	856.7	752.3	692.6	671.4	662.8	677.7	696.9	741.6
52.5°	1118.9	974.0	816.3	679.9	571.2	509.4	485.9	473.1	481.6	507.2	552.0
55°	924.9	790.7	647.9	507.2	402.8	345.3	317.5	309.0	317.5	345.3	390.0
57.5°	731.0	618.1	498.7	366.5	272.8	215.3	187.5	179.0	202.5	213.1	260.0
60°	571.2	479.6	377.2	268.6	187.5	142.8	115.1	108.7	119.4	138.5	176.9
62.5°	428.4	370.8	289.8	191.8	138.5	91.6	76.7	70.3	76.7	91.6	121.5
65°	311.2	266.4	202.5	140.6	93.8	68.2	51.2	46.9	53.3	63.9	89.5
67.5°	213.1	179.0	140.6	98.0	63.9	42.6	36.2	36.2	38.4	46.9	66.1
70°	138.5	117.2	89.5	63.9	42.6	32.0	27.7	23.5	27.7	34.1	44.7
72.5°	87.4	74.6	57.5	44.7	32.0	23.5	19.2	17.1	21.3	25.6	34.1
75°	53.3	40.5	29.8	23.5	17.1	17.1	17.1	8.5	10.6	17.1	21.3
77.5°	32.0	27.7	23.5	19.2	14.9	8.5	8.5	8.5	10.6	12.8	19.2
80°	17.1	14.9	10.6	10.6	8.5	6.4	8.5	6.4	4.3	10.6	12.8
82.5°	10.6	8.5	8.5	8.5	10.6	4.3	6.4	4.3	6.4	8.5	6.4
85°	6.4	6.4	6.4	4.3	10.6	4.3	4.3	2.1	2.1	4.3	4.3
87.5°	0.0	2.1	2.1	0.0	2.1	0.0	2.1	2.1	2.1	2.1	2.1
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°	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2
2.5°	4021.7	4019.5	4021.7	4019.5	4019.5	4019.5	4021.7	4021.7	4019.5	4019.5	4023.8
5°	4038.7	4038.7	4038.7	4036.6	4034.4	4034.4	4038.7	4038.7	4032.3	4038.7	4038.7
7.5°	4074.9	4068.5	4074.9	4066.4	4062.2	4064.3	4066.4	4062.2	4057.9	4060.0	4060.0
10°	4121.8	4115.4	4115.4	4109.1	4102.6	4098.4	4094.1	4083.4	4072.8	4070.7	4062.2
12.5°	4177.2	4166.6	4160.2	4147.4	4136.7	4121.8	4109.1	4092.0	4070.7	4055.8	4040.8
15°	4232.6	4215.6	4200.7	4179.3	4155.9	4130.3	4102.6	4074.9	4040.8	4011.0	3985.4
17.5°	4277.4	4254.0	4226.2	4192.2	4158.1	4119.7	4079.2	4038.7	3989.7	3951.3	3921.5
20°	4292.3	4258.2	4222.0	4177.2	4132.5	4079.2	4028.1	3974.8	3919.3	3878.9	3844.8
22.5°	4273.2	4232.6	4187.9	4141.0	4081.3	4023.8	3964.1	3902.3	3853.3	3797.9	3765.9
25°	4219.9	4170.8	4121.8	4066.4	4008.9	3944.9	3881.0	3817.1	3757.4	3727.5	3687.1
27.5°	4111.2	4057.9	4004.6	3947.1	3881.0	3817.1	3751.0	3689.2	3638.1	3597.5	3574.1
30°	3919.3	3857.5	3795.7	3734.0	3676.4	3610.3	3548.5	3497.4	3446.2	3414.2	3390.8
32.5°	3625.2	3569.8	3508.0	3448.3	3395.1	3339.7	3288.5	3243.8	3207.5	3186.2	3169.1
35°	3228.8	3173.4	3126.5	3083.9	3039.1	3015.7	2983.8	2958.1	2943.2	2934.7	2932.6
37.5°	2730.1	2698.1	2683.2	2674.7	2666.2	2659.8	2664.0	2674.7	2683.2	2698.1	2715.2
40°	2197.3	2225.0	2233.5	2263.4	2291.1	2327.3	2367.8	2414.7	2453.0	2502.1	2536.2
42.5°	1711.4	1762.5	1822.2	1886.1	1954.3	2020.4	2101.4	2176.0	2244.2	2306.0	2359.3
45°	1315.0	1393.8	1483.3	1575.0	1666.6	1762.5	1860.6	1952.2	2033.2	2099.3	2154.7
47.5°	1025.1	1112.5	1227.6	1340.6	1451.4	1564.3	1673.0	1768.9	1837.1	1901.1	1950.1
50°	812.0	912.2	1037.9	1167.9	1289.4	1408.7	1523.8	1613.4	1681.6	1732.7	1768.9
52.5°	628.7	748.1	875.9	1012.3	1142.4	1272.4	1378.9	1462.0	1517.5	1562.2	1589.9
55°	468.9	586.1	722.5	863.2	995.3	1121.0	1221.2	1293.7	1342.7	1368.3	1383.2
57.5°	338.9	445.4	581.8	722.5	841.8	961.2	1042.2	1108.2	1135.9	1150.9	1157.3
60°	247.2	345.3	466.7	588.2	701.2	797.1	867.4	912.2	933.5	942.0	939.9
62.5°	181.2	266.4	370.8	473.1	564.8	643.6	699.0	728.9	739.6	743.8	737.4
65°	138.5	204.6	294.1	373.0	443.3	500.8	541.3	560.5	566.9	564.8	560.5
67.5°	102.3	153.5	219.5	279.2	330.4	375.1	396.4	413.5	417.7	411.3	404.9
70°	72.5	113.0	159.8	200.4	238.7	264.3	287.7	289.8	289.8	287.7	283.5
72.5°	51.2	78.8	108.7	136.4	159.8	179.0	187.5	193.9	191.8	189.7	185.4
75°	34.1	49.0	78.8	85.3	106.5	113.0	121.5	121.5	123.6	117.2	117.2
77.5°	21.3	34.1	46.9	55.4	63.9	72.5	76.7	76.7	78.8	76.7	76.7
80°	12.8	21.3	25.6	38.4	38.4	44.7	46.9	49.0	44.7	51.2	44.7
82.5°	8.5	12.8	19.2	19.2	23.5	27.7	27.7	29.8	29.8	27.7	27.7
85°	6.4	8.5	10.6	12.8	12.8	14.9	12.8	12.8	14.9	17.1	14.9
87.5°	2.1	4.3	2.1	4.3	4.3	8.5	6.4	6.4	6.4	8.5	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



TEST NUMBER: P248528

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4015.2	4015.2	4015.2	4015.2
2.5°	4019.5	4021.7	4019.5	4019.5
5°	4038.7	4036.6	4038.7	4034.4
7.5°	4053.6	4053.6	4051.5	4051.5
10°	4053.6	4045.1	4045.1	4045.1
12.5°	4021.7	4011.0	4004.6	4000.3
15°	3966.2	3947.1	3938.5	3936.4
17.5°	3893.8	3876.7	3866.1	3859.7
20°	3810.7	3793.6	3780.8	3783.0
22.5°	3738.2	3719.0	3710.5	3706.2
25°	3665.7	3642.3	3635.9	3631.6
27.5°	3548.5	3535.7	3529.3	3523.0
30°	3369.5	3363.1	3352.4	3367.4
32.5°	3162.8	3152.1	3143.6	3150.0
35°	2934.7	2928.3	2934.7	2930.5
37.5°	2725.9	2732.2	2740.8	2745.0
40°	2561.8	2585.2	2593.7	2598.0
42.5°	2397.7	2425.4	2442.4	2453.0
45°	2195.2	2222.9	2242.1	2254.9
47.5°	1986.3	2009.8	2028.9	2026.8
50°	1796.7	1809.4	1817.9	1826.5
52.5°	1604.8	1604.8	1606.9	1606.9
55°	1387.4	1383.2	1381.0	1383.2
57.5°	1148.7	1144.5	1142.4	1135.9
60°	931.4	918.6	910.0	910.0
62.5°	728.9	714.0	707.6	705.5
65°	547.7	545.6	532.8	530.7
67.5°	396.4	387.9	379.4	381.5
70°	279.2	266.4	266.4	262.1
72.5°	181.2	174.7	172.6	172.6
75°	113.0	113.0	108.7	117.2
77.5°	74.6	74.6	72.5	74.6
80°	44.7	44.7	44.7	42.6
82.5°	27.7	29.8	27.7	27.7
85°	14.9	17.1	12.8	19.2
87.5°	8.5	10.6	8.5	10.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)