

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: P249284

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249284
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: LSR8B100D010 EC8B1009727 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7640.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

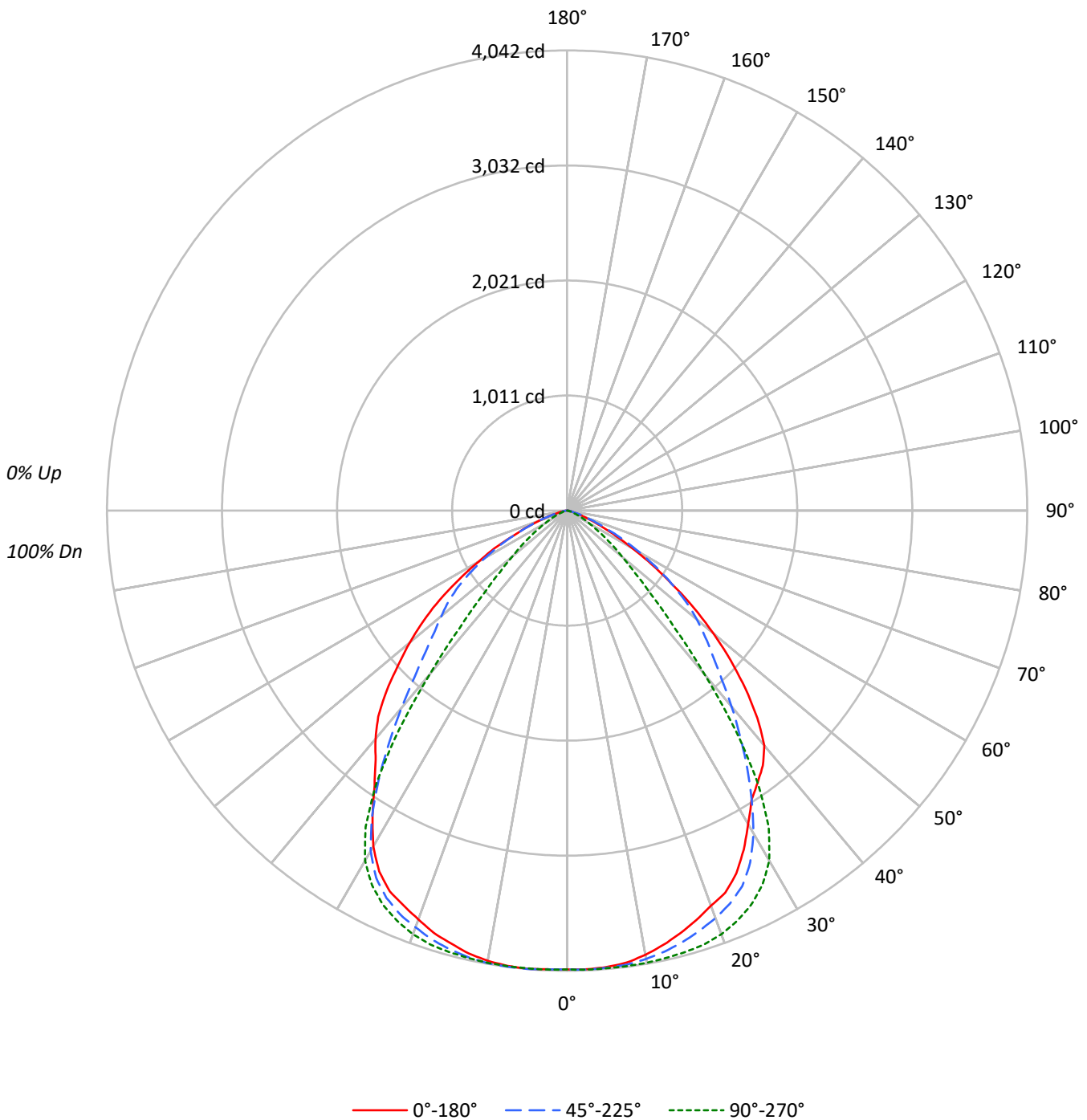
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90						
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79						
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70						
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62						
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55						
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50						
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45						
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41						
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37						
10	60	48	41	36	59	48	41	36	47	40	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°	384.7	5.0
10°-20°	1117.2	14.6
20°-30°	1695.7	22.2
30°-40°	1781.0	23.3
40°-50°	1335.3	17.5
50°-60°	856.8	11.2
60°-70°	366.5	4.8
70°-80°	86.6	1.1
80°-90°	16.1	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°	3197.7	41.9
0°-40°	4978.7	65.2
0°-60°	7170.8	93.9
0°-90°	7640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7640.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4031	4031	4031	4031	4031	
5°	4024	4031	4035	4042	4040	382
15°	3843	3923	4014	3988	3938	1084
25°	3516	3639	3823	3754	3689	1606
35°	2917	2754	2919	2884	2949	1831
45°	2216	1811	1041	1759	2246	1697
55°	1121	1121	387	1168	1365	1017
65°	338	398	123	513	521	360
75°	52	61	17	104	102	76
85°	17	11	9	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°	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0
2.5°	4033.2	4037.5	4035.4	4035.4	4033.2	4035.4	4035.4	4039.7	4039.7	4035.4	4033.2
5°	4024.5	4028.8	4028.8	4024.5	4024.5	4035.4	4028.8	4033.2	4033.2	4031.0	4031.0
7.5°	4005.1	4005.1	4013.7	4007.2	4007.2	4013.7	4011.5	4015.9	4020.2	4022.4	4022.4
10°	3961.8	3966.1	3968.3	3968.3	3970.4	3976.9	3981.2	3989.9	3994.2	3998.6	4000.7
12.5°	3907.7	3914.2	3916.3	3914.2	3920.7	3929.3	3940.2	3951.0	3957.5	3966.1	3972.6
15°	3842.8	3842.8	3847.1	3853.6	3857.9	3870.9	3881.7	3894.7	3912.0	3922.9	3933.7
17.5°	3771.4	3775.7	3782.2	3782.2	3790.9	3812.5	3819.0	3838.5	3857.9	3868.7	3890.4
20°	3693.5	3697.8	3704.3	3708.6	3719.4	3736.8	3749.7	3767.0	3788.7	3808.2	3829.8
22.5°	3632.9	3624.3	3628.5	3632.9	3643.7	3658.9	3674.0	3695.6	3717.3	3736.8	3758.4
25°	3516.0	3518.2	3524.7	3529.0	3542.0	3555.0	3572.3	3598.3	3617.7	3639.4	3663.2
27.5°	3358.1	3360.3	3371.1	3371.1	3381.9	3403.5	3414.3	3436.0	3462.0	3483.6	3511.7
30°	3178.5	3182.8	3182.8	3191.5	3198.0	3208.8	3219.6	3241.3	3254.2	3273.7	3312.7
32.5°	3014.1	3018.4	3016.2	3014.1	3007.6	3005.4	3003.2	3007.6	3011.9	3018.4	3033.5
35°	2916.7	2905.9	2897.2	2882.1	2864.8	2843.1	2823.7	2797.7	2773.9	2754.4	2732.8
37.5°	2823.7	2821.5	2808.5	2786.9	2752.2	2713.3	2667.9	2611.6	2555.3	2494.8	2436.4
40°	2693.8	2687.3	2676.5	2646.2	2607.3	2559.7	2499.1	2429.9	2339.0	2245.9	2150.7
42.5°	2473.1	2475.3	2462.3	2438.5	2401.8	2356.3	2293.5	2217.8	2120.5	2010.1	1886.8
45°	2215.7	2215.7	2211.3	2191.8	2165.9	2129.1	2081.5	2018.8	1923.6	1811.0	1679.0
47.5°	1947.3	1949.5	1943.0	1938.7	1927.9	1904.1	1869.5	1821.9	1754.8	1646.6	1514.6
50°	1674.7	1674.7	1685.5	1683.4	1683.4	1674.7	1659.6	1631.4	1573.0	1486.5	1363.2
52.5°	1402.1	1406.4	1412.9	1421.6	1432.4	1449.7	1432.4	1419.4	1382.6	1315.5	1209.5
55°	1120.8	1125.1	1135.9	1151.1	1164.1	1181.4	1185.7	1185.7	1166.2	1120.8	1040.8
57.5°	880.7	874.1	882.8	895.8	913.1	930.4	943.4	958.5	956.4	926.1	861.2
60°	662.1	664.3	670.7	683.8	696.7	711.9	729.2	742.2	748.7	733.5	692.4
62.5°	482.5	482.5	491.2	504.1	510.6	532.3	543.1	549.6	556.1	553.9	527.9
65°	337.6	341.9	346.2	352.7	359.2	372.1	378.6	391.6	396.0	398.1	378.6
67.5°	238.0	231.5	235.9	240.1	246.7	255.3	268.3	268.3	274.8	274.8	261.8
70°	151.5	151.5	153.6	160.1	164.4	166.6	171.0	175.2	181.8	179.6	179.6
72.5°	101.7	99.5	101.7	103.9	106.0	112.5	112.5	114.7	119.0	121.2	112.5
75°	51.9	54.1	58.4	56.3	62.7	58.4	60.6	67.1	64.9	60.6	60.6
77.5°	43.3	43.3	43.3	41.1	45.4	45.4	43.3	47.6	45.4	45.4	43.3
80°	30.3	32.5	30.3	28.1	30.3	28.1	28.1	28.1	28.1	28.1	25.9
82.5°	23.8	19.5	21.7	19.5	21.7	21.7	19.5	17.3	17.3	19.5	17.3
85°	17.3	13.0	15.1	15.1	13.0	13.0	13.0	13.0	13.0	10.8	10.8
87.5°	10.8	6.5	6.5	6.5	8.6	8.6	8.6	6.5	8.6	8.6	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°	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0
2.5°	4037.5	4035.4	4039.7	4037.5	4037.5	4035.4	4037.5	4035.4	4039.7	4031.0	4033.2
5°	4037.5	4033.2	4035.4	4037.5	4039.7	4035.4	4035.4	4035.4	4039.7	4035.4	4037.5
7.5°	4028.8	4026.7	4033.2	4037.5	4035.4	4033.2	4037.5	4035.4	4039.7	4037.5	4041.8
10°	4011.5	4013.7	4018.0	4024.5	4026.7	4028.8	4033.2	4033.2	4039.7	4031.0	4035.4
12.5°	3985.6	3994.2	4005.1	4009.4	4018.0	4018.0	4022.4	4024.5	4028.8	4026.7	4033.2
15°	3953.1	3963.9	3976.9	3987.8	3998.6	4005.1	4011.5	4013.7	4020.2	4013.7	4015.9
17.5°	3914.2	3927.1	3946.6	3959.6	3976.9	3983.4	3992.0	3996.4	4002.9	3998.6	4000.7
20°	3860.1	3875.3	3896.9	3916.3	3927.1	3942.3	3953.1	3959.6	3963.9	3959.6	3961.8
22.5°	3784.4	3806.0	3834.1	3849.3	3870.9	3883.9	3886.1	3901.2	3912.0	3901.2	3905.5
25°	3695.6	3717.3	3738.9	3771.4	3790.9	3806.0	3821.1	3823.3	3834.1	3831.9	3829.8
27.5°	3548.5	3576.7	3613.4	3639.4	3665.3	3689.2	3706.5	3710.8	3721.6	3717.3	3719.4
30°	3347.3	3377.6	3412.2	3453.3	3490.1	3513.9	3535.5	3550.7	3561.5	3555.0	3552.8
32.5°	3061.7	3092.0	3128.8	3169.8	3213.2	3247.7	3273.7	3293.2	3306.2	3301.8	3291.0
35°	2735.0	2743.6	2767.4	2799.9	2836.6	2873.4	2897.2	2918.8	2934.0	2938.3	2938.3
37.5°	2399.6	2371.5	2354.2	2354.2	2375.8	2390.9	2412.6	2425.5	2449.3	2458.0	2464.5
40°	2075.0	2010.1	1949.5	1904.1	1873.8	1871.6	1871.6	1878.1	1899.7	1927.9	1953.9
42.5°	1785.1	1681.2	1588.2	1503.8	1443.2	1408.6	1393.5	1395.6	1412.9	1438.9	1482.1
45°	1553.6	1423.7	1306.9	1205.2	1123.0	1068.9	1042.9	1040.8	1053.7	1084.0	1131.7
47.5°	1374.0	1235.5	1103.5	986.6	898.0	839.5	809.2	800.6	809.2	837.3	893.6
50°	1224.7	1081.9	945.6	824.4	729.2	668.6	640.5	629.6	640.5	664.3	720.5
52.5°	1086.2	939.0	811.4	694.6	592.9	540.9	510.6	504.1	510.6	538.7	584.2
55°	926.1	800.6	675.1	558.2	469.5	417.6	393.8	387.3	393.8	419.8	467.4
57.5°	768.1	659.9	549.6	443.6	367.8	322.4	300.8	292.1	307.2	324.5	380.8
60°	621.0	534.5	441.4	348.4	285.6	244.5	227.2	225.0	229.3	251.0	289.9
62.5°	486.9	415.4	341.9	266.1	214.2	196.9	175.2	173.1	177.4	190.4	220.7
65°	350.5	305.1	248.8	194.7	153.6	129.8	121.2	123.4	127.6	136.3	164.4
67.5°	244.5	212.0	173.1	136.3	106.0	95.2	86.6	84.4	86.6	101.7	116.8
70°	164.4	145.0	116.8	103.9	73.6	58.4	60.6	54.1	62.7	62.7	75.7
72.5°	108.2	95.2	77.9	60.6	51.9	41.1	41.1	39.0	43.3	45.4	56.3
75°	56.3	43.3	43.3	30.3	21.7	10.8	19.5	17.3	15.1	17.3	21.7
77.5°	39.0	32.5	30.3	23.8	21.7	17.3	17.3	17.3	17.3	19.5	21.7
80°	23.8	23.8	17.3	15.1	13.0	10.8	13.0	13.0	13.0	13.0	15.1
82.5°	15.1	13.0	13.0	10.8	10.8	8.6	8.6	8.6	8.6	8.6	13.0
85°	13.0	8.6	8.6	6.5	8.6	15.1	6.5	8.6	8.6	8.6	6.5
87.5°	4.3	6.5	6.5	6.5	4.3	2.2	4.3	6.5	6.5	10.8	8.6
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°	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0	4031.0
2.5°	4037.5	4039.7	4039.7	4037.5	4037.5	4033.2	4041.8	4035.4	4037.5	4046.2	4039.7
5°	4041.8	4044.0	4044.0	4041.8	4041.8	4041.8	4044.0	4044.0	4041.8	4039.7	4044.0
7.5°	4050.5	4048.3	4048.3	4044.0	4044.0	4039.7	4044.0	4037.5	4041.8	4037.5	4044.0
10°	4039.7	4041.8	4039.7	4037.5	4037.5	4035.4	4035.4	4028.8	4031.0	4024.5	4028.8
12.5°	4033.2	4031.0	4031.0	4026.7	4022.4	4018.0	4015.9	4009.4	4009.4	3994.2	4000.7
15°	4015.9	4018.0	4011.5	4002.9	3998.6	3987.8	3983.4	3974.7	3966.1	3955.3	3957.5
17.5°	4000.7	3994.2	3985.6	3976.9	3959.6	3951.0	3942.3	3929.3	3925.0	3912.0	3907.7
20°	3955.3	3951.0	3940.2	3925.0	3914.2	3894.7	3886.1	3873.1	3862.2	3849.3	3842.8
22.5°	3896.9	3892.5	3879.5	3864.4	3847.1	3838.5	3829.8	3806.0	3795.2	3782.2	3780.0
25°	3823.3	3816.8	3803.8	3786.5	3777.8	3754.1	3745.4	3728.1	3723.8	3710.8	3708.6
27.5°	3710.8	3702.1	3687.0	3665.3	3650.2	3635.1	3626.4	3613.4	3609.1	3596.1	3594.0
30°	3542.0	3531.2	3500.9	3492.3	3466.3	3451.1	3451.1	3433.8	3436.0	3427.4	3427.4
32.5°	3275.9	3258.6	3234.8	3217.4	3200.1	3191.5	3191.5	3185.0	3189.3	3189.3	3193.7
35°	2923.2	2899.4	2886.4	2875.6	2875.6	2884.2	2910.2	2916.7	2929.7	2940.5	2949.2
37.5°	2470.9	2468.8	2484.0	2496.9	2529.4	2566.2	2611.6	2650.6	2687.3	2713.3	2739.3
40°	1982.0	2036.1	2079.3	2139.9	2189.7	2261.1	2343.3	2410.4	2473.1	2518.6	2566.2
42.5°	1547.0	1616.3	1707.2	1795.9	1884.6	1982.0	2090.2	2183.2	2265.4	2328.2	2377.9
45°	1205.2	1300.4	1410.8	1523.3	1637.9	1759.1	1871.6	1966.8	2053.4	2118.3	2168.1
47.5°	971.5	1075.4	1200.9	1324.2	1454.0	1581.7	1707.2	1789.4	1860.8	1912.7	1958.2
50°	802.7	913.1	1045.1	1185.7	1315.5	1443.2	1551.4	1631.4	1689.9	1735.3	1763.4
52.5°	670.7	787.6	928.2	1068.9	1198.7	1315.5	1412.9	1473.5	1521.1	1553.6	1579.5
55°	553.9	666.4	798.4	930.4	1058.1	1168.4	1248.4	1293.9	1330.7	1350.1	1365.3
57.5°	452.2	556.1	677.2	798.4	908.8	999.7	1062.4	1107.8	1125.1	1140.3	1138.1
60°	354.9	452.2	562.6	666.4	761.6	835.2	880.7	906.6	919.6	926.1	921.7
62.5°	279.1	367.8	452.2	543.1	612.3	675.1	718.4	718.4	724.8	727.0	733.5
65°	207.7	274.8	348.4	415.4	471.7	512.8	536.6	543.1	551.8	549.6	545.3
67.5°	153.6	203.4	257.5	307.2	346.2	372.1	389.4	404.6	402.5	398.1	396.0
70°	106.0	138.5	186.1	216.4	244.5	270.5	274.8	276.9	279.1	281.3	276.9
72.5°	73.6	97.4	123.4	149.3	166.6	177.4	188.3	190.4	190.4	190.4	188.3
75°	36.8	49.8	73.6	84.4	99.5	103.9	112.5	112.5	119.0	110.3	108.2
77.5°	32.5	39.0	51.9	60.6	67.1	73.6	75.7	82.2	80.0	75.7	77.9
80°	19.5	23.8	32.5	36.8	45.4	47.6	49.8	51.9	49.8	51.9	51.9
82.5°	15.1	17.3	21.7	21.7	28.1	28.1	30.3	30.3	32.5	32.5	32.5
85°	8.6	15.1	13.0	25.9	17.3	17.3	21.7	25.9	21.7	21.7	25.9
87.5°	8.6	8.6	6.5	8.6	8.6	8.6	10.8	13.0	13.0	15.1	13.0
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: P249284

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4031.0	4031.0	4031.0	4031.0
2.5°	4037.5	4041.8	4035.4	4033.2
5°	4044.0	4044.0	4039.7	4039.7
7.5°	4044.0	4044.0	4037.5	4033.2
10°	4026.7	4026.7	4020.2	4015.9
12.5°	3994.2	3994.2	3992.0	3985.6
15°	3953.1	3953.1	3944.5	3938.0
17.5°	3896.9	3901.2	3890.4	3890.4
20°	3836.3	3834.1	3825.5	3821.1
22.5°	3773.6	3769.2	3767.0	3754.1
25°	3706.5	3702.1	3695.6	3689.2
27.5°	3591.8	3589.6	3583.1	3574.5
30°	3416.5	3414.3	3405.7	3405.7
32.5°	3189.3	3187.2	3178.5	3180.7
35°	2953.5	2962.2	2957.8	2949.2
37.5°	2756.6	2763.1	2767.4	2763.1
40°	2592.1	2611.6	2613.8	2618.1
42.5°	2416.9	2442.8	2451.5	2455.8
45°	2207.0	2230.8	2250.3	2245.9
47.5°	1992.8	2010.1	2027.4	2014.4
50°	1787.2	1798.0	1804.6	1804.6
52.5°	1592.5	1592.5	1590.3	1592.5
55°	1369.6	1369.6	1361.0	1365.3
57.5°	1135.9	1140.3	1133.8	1123.0
60°	919.6	908.8	904.4	898.0
62.5°	716.2	716.2	701.1	720.5
65°	536.6	530.1	523.6	521.4
67.5°	389.4	387.3	380.8	378.6
70°	274.8	266.1	264.0	259.6
72.5°	183.9	183.9	179.6	179.6
75°	112.5	101.7	99.5	101.7
77.5°	77.9	75.7	75.7	73.6
80°	51.9	49.8	54.1	47.6
82.5°	32.5	34.6	32.5	34.6
85°	21.7	25.9	23.8	23.8
87.5°	13.0	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)