

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: P249293

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249293
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 EC8B1009730 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8083.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

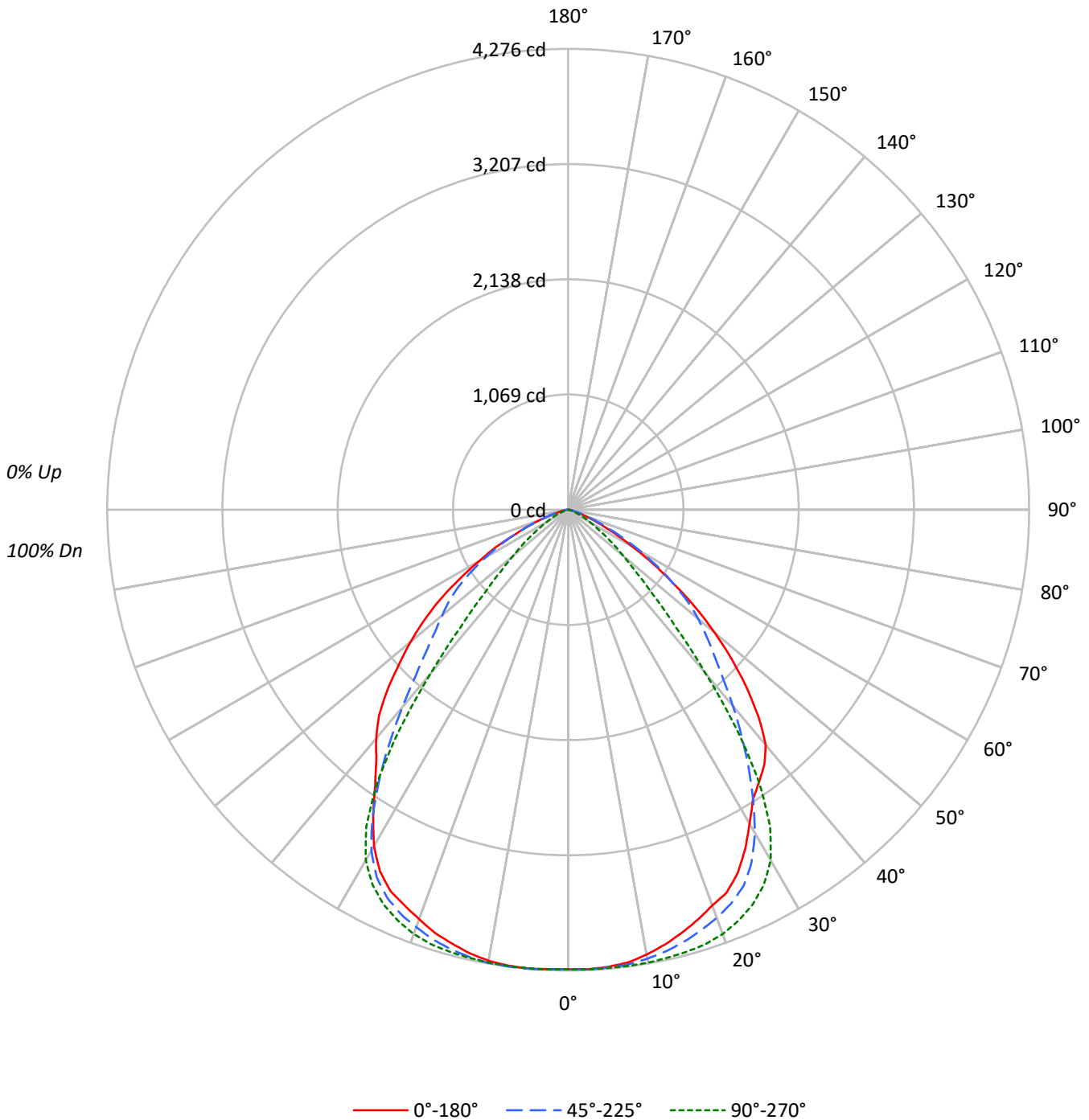
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	407.0	5.0
10°-20°	1182.0	14.6
20°-30°	1794.1	22.2
30°-40°	1884.3	23.3
40°-50°	1412.7	17.5
50°-60°	906.4	11.2
60°-70°	387.8	4.8
70°-80°	91.6	1.1
80°-90°	17.0	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°	3383.1	41.9
0°-40°	5267.4	65.2
0°-60°	7586.6	93.9
0°-90°	8083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8083.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4265	4265	4265	4265	4265	
5°	4258	4265	4269	4276	4274	404
15°	4066	4150	4246	4219	4166	1147
25°	3720	3850	4045	3972	3903	1699
35°	3086	2914	3088	3052	3120	1937
45°	2344	1916	1101	1861	2376	1795
55°	1186	1186	410	1236	1444	1076
65°	357	421	130	542	552	381
75°	55	64	18	110	108	80
85°	18	11	9	18	25	19
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°	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7
2.5°	4267.0	4271.6	4269.3	4269.3	4267.0	4269.3	4269.3	4273.9	4273.9	4269.3	4267.0
5°	4257.9	4262.5	4262.5	4257.9	4257.9	4269.3	4262.5	4267.0	4267.0	4264.7	4264.7
7.5°	4237.3	4237.3	4246.4	4239.6	4239.6	4246.4	4244.1	4248.7	4253.3	4255.6	4255.6
10°	4191.5	4196.1	4198.4	4198.4	4200.7	4207.5	4212.1	4221.3	4225.8	4230.4	4232.7
12.5°	4134.3	4141.1	4143.4	4141.1	4148.0	4157.1	4168.6	4180.1	4186.9	4196.1	4203.0
15°	4065.6	4065.6	4070.2	4077.1	4081.6	4095.4	4106.8	4120.5	4138.8	4150.3	4161.7
17.5°	3990.1	3994.7	4001.5	4001.5	4010.7	4033.5	4040.4	4061.0	4081.6	4093.1	4116.0
20°	3907.7	3912.2	3919.1	3923.7	3935.1	3953.4	3967.2	3985.5	4008.4	4029.0	4051.8
22.5°	3843.5	3834.4	3838.9	3843.5	3855.0	3871.0	3887.1	3909.9	3932.8	3953.4	3976.3
25°	3719.9	3722.2	3729.1	3733.6	3747.4	3761.1	3779.5	3806.9	3827.5	3850.4	3875.6
27.5°	3552.8	3555.1	3566.6	3566.6	3578.0	3600.9	3612.3	3635.2	3662.7	3685.6	3715.4
30°	3362.8	3367.4	3367.4	3376.6	3383.4	3394.9	3406.3	3429.2	3442.9	3463.5	3504.8
32.5°	3188.9	3193.4	3191.1	3188.9	3182.0	3179.7	3177.4	3182.0	3186.6	3193.4	3209.4
35°	3085.8	3074.4	3065.2	3049.2	3030.9	3008.0	2987.4	2959.9	2934.7	2914.1	2891.3
37.5°	2987.4	2985.1	2971.4	2948.5	2911.8	2870.6	2822.6	2763.0	2703.5	2639.4	2577.6
40°	2850.0	2843.1	2831.7	2799.7	2758.5	2708.1	2644.0	2570.8	2474.6	2376.2	2275.5
42.5°	2616.5	2618.8	2605.1	2579.9	2541.0	2492.9	2426.5	2346.4	2243.4	2126.6	1996.2
45°	2344.1	2344.1	2339.5	2318.9	2291.5	2252.6	2202.2	2135.8	2035.1	1916.0	1776.4
47.5°	2060.3	2062.6	2055.7	2051.1	2039.6	2014.5	1977.9	1927.5	1856.5	1742.1	1602.4
50°	1771.8	1771.8	1783.3	1781.0	1781.0	1771.8	1755.8	1726.0	1664.2	1572.7	1442.2
52.5°	1483.4	1488.0	1494.9	1504.0	1515.4	1533.7	1515.4	1501.7	1462.8	1391.8	1279.7
55°	1185.8	1190.4	1201.8	1217.8	1231.6	1249.9	1254.5	1254.5	1233.8	1185.8	1101.1
57.5°	931.7	924.8	934.0	947.7	966.1	984.4	998.1	1014.1	1011.8	979.8	911.1
60°	700.5	702.8	709.6	723.4	737.1	753.1	771.5	785.2	792.1	776.1	732.5
62.5°	510.5	510.5	519.6	533.4	540.2	563.2	574.6	581.5	588.3	586.0	558.6
65°	357.1	361.7	366.3	373.2	380.0	393.7	400.6	414.3	418.9	421.2	400.6
67.5°	251.8	244.9	249.5	254.1	261.0	270.1	283.9	283.9	290.7	290.7	277.0
70°	160.3	160.3	162.5	169.4	174.0	176.3	180.9	185.4	192.3	190.0	190.0
72.5°	107.6	105.3	107.6	109.9	112.2	119.0	119.0	121.3	125.9	128.2	119.0
75°	54.9	57.2	61.8	59.5	66.4	61.8	64.1	71.0	68.7	64.1	64.1
77.5°	45.8	45.8	45.8	43.5	48.1	48.1	45.8	50.4	48.1	48.1	45.8
80°	32.0	34.3	32.0	29.7	32.0	29.7	29.7	29.7	29.7	29.7	27.4
82.5°	25.2	20.6	22.9	20.6	22.9	22.9	20.6	18.3	18.3	20.6	18.3
85°	18.3	13.7	16.0	16.0	13.7	13.7	13.7	13.7	13.7	11.4	11.4
87.5°	11.4	6.9	6.9	6.9	9.1	9.1	9.1	6.9	9.1	9.1	4.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7
2.5°	4271.6	4269.3	4273.9	4271.6	4271.6	4269.3	4271.6	4269.3	4273.9	4264.7	4267.0
5°	4271.6	4267.0	4269.3	4271.6	4273.9	4269.3	4269.3	4269.3	4273.9	4269.3	4271.6
7.5°	4262.5	4260.2	4267.0	4271.6	4269.3	4267.0	4271.6	4269.3	4273.9	4271.6	4276.2
10°	4244.1	4246.4	4251.0	4257.9	4260.2	4262.5	4267.0	4267.0	4273.9	4264.7	4269.3
12.5°	4216.7	4225.8	4237.3	4241.8	4251.0	4251.0	4255.6	4257.9	4262.5	4260.2	4267.0
15°	4182.4	4193.8	4207.5	4219.0	4230.4	4237.3	4244.1	4246.4	4253.3	4246.4	4248.7
17.5°	4141.1	4154.9	4175.5	4189.2	4207.5	4214.4	4223.5	4228.1	4235.0	4230.4	4232.7
20°	4083.9	4100.0	4122.8	4143.4	4154.9	4170.9	4182.4	4189.2	4193.8	4189.2	4191.5
22.5°	4003.8	4026.7	4056.4	4072.5	4095.4	4109.1	4111.4	4127.4	4138.8	4127.4	4132.0
25°	3909.9	3932.8	3955.7	3990.1	4010.7	4026.7	4042.7	4045.0	4056.4	4054.1	4051.8
27.5°	3754.3	3784.0	3822.9	3850.4	3877.9	3903.1	3921.4	3925.9	3937.4	3932.8	3935.1
30°	3541.3	3573.4	3610.1	3653.5	3692.5	3717.6	3740.5	3756.5	3768.0	3761.1	3758.8
32.5°	3239.2	3271.3	3310.2	3353.6	3399.5	3436.0	3463.5	3484.2	3497.9	3493.3	3481.9
35°	2893.6	2902.7	2927.9	2962.2	3001.1	3040.0	3065.2	3088.1	3104.1	3108.7	3108.7
37.5°	2538.7	2509.0	2490.7	2490.7	2513.5	2529.5	2552.4	2566.2	2591.4	2600.5	2607.4
40°	2195.3	2126.6	2062.6	2014.5	1982.5	1980.2	1980.2	1987.0	2009.9	2039.6	2067.1
42.5°	1888.6	1778.7	1680.3	1591.0	1526.9	1490.3	1474.3	1476.5	1494.9	1522.3	1568.1
45°	1643.6	1506.3	1382.7	1275.1	1188.1	1130.8	1103.4	1101.1	1114.8	1146.9	1197.3
47.5°	1453.6	1307.1	1167.5	1043.9	950.0	888.2	856.2	847.0	856.2	885.9	945.4
50°	1295.7	1144.6	1000.4	872.2	771.5	707.4	677.6	666.2	677.6	702.8	762.3
52.5°	1149.2	993.5	858.5	734.8	627.2	572.3	540.2	533.4	540.2	570.0	618.1
55°	979.8	847.0	714.2	590.6	496.8	441.8	416.6	409.8	416.6	444.1	494.5
57.5°	812.7	698.2	581.5	469.3	389.2	341.1	318.2	309.0	325.0	343.4	402.9
60°	657.0	565.4	467.0	368.6	302.2	258.7	240.4	238.1	242.6	265.6	306.7
62.5°	515.1	439.5	361.7	281.6	226.6	208.3	185.4	183.2	187.7	201.4	233.5
65°	370.9	322.8	263.3	206.0	162.5	137.3	128.2	130.5	135.0	144.2	174.0
67.5°	258.7	224.3	183.2	144.2	112.2	100.7	91.6	89.3	91.6	107.6	123.6
70°	174.0	153.4	123.6	109.9	77.9	61.8	64.1	57.2	66.4	66.4	80.1
72.5°	114.4	100.7	82.4	64.1	54.9	43.5	43.5	41.2	45.8	48.1	59.5
75°	59.5	45.8	45.8	32.0	22.9	11.4	20.6	18.3	16.0	18.3	22.9
77.5°	41.2	34.3	32.0	25.2	22.9	18.3	18.3	18.3	18.3	20.6	22.9
80°	25.2	25.2	18.3	16.0	13.7	11.4	13.7	13.7	13.7	13.7	16.0
82.5°	16.0	13.7	13.7	11.4	11.4	9.1	9.1	9.1	9.1	9.1	13.7
85°	13.7	9.1	9.1	6.9	9.1	16.0	6.9	9.1	9.1	9.1	6.9
87.5°	4.6	6.9	6.9	6.9	4.6	2.3	4.6	6.9	6.9	11.4	9.1
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°	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7
2.5°	4271.6	4273.9	4273.9	4271.6	4271.6	4267.0	4276.2	4269.3	4271.6	4280.8	4273.9
5°	4276.2	4278.5	4278.5	4276.2	4276.2	4276.2	4278.5	4278.5	4276.2	4273.9	4278.5
7.5°	4285.4	4283.1	4283.1	4278.5	4278.5	4273.9	4278.5	4271.6	4276.2	4271.6	4278.5
10°	4273.9	4276.2	4273.9	4271.6	4271.6	4269.3	4269.3	4262.5	4264.7	4257.9	4262.5
12.5°	4267.0	4264.7	4264.7	4260.2	4255.6	4251.0	4248.7	4241.8	4241.8	4225.8	4232.7
15°	4248.7	4251.0	4244.1	4235.0	4230.4	4219.0	4214.4	4205.2	4196.1	4184.7	4186.9
17.5°	4232.7	4225.8	4216.7	4207.5	4189.2	4180.1	4170.9	4157.1	4152.6	4138.8	4134.3
20°	4184.7	4180.1	4168.6	4152.6	4141.1	4120.5	4111.4	4097.7	4086.2	4072.5	4065.6
22.5°	4122.8	4118.2	4104.5	4088.5	4070.2	4061.0	4051.8	4026.7	4015.2	4001.5	3999.2
25°	4045.0	4038.1	4024.4	4006.1	3996.9	3971.7	3962.6	3944.2	3939.7	3925.9	3923.7
27.5°	3925.9	3916.8	3900.8	3877.9	3861.9	3845.8	3836.7	3822.9	3818.4	3804.6	3802.4
30°	3747.4	3735.9	3703.9	3694.8	3667.3	3651.2	3651.2	3632.9	3635.2	3626.1	3626.1
32.5°	3465.8	3447.5	3422.3	3404.0	3385.7	3376.6	3376.6	3369.7	3374.3	3374.3	3378.9
35°	3092.7	3067.5	3053.8	3042.3	3042.3	3051.5	3079.0	3085.8	3099.6	3111.0	3120.2
37.5°	2614.2	2612.0	2628.0	2641.7	2676.1	2715.0	2763.0	2804.3	2843.1	2870.6	2898.1
40°	2096.9	2154.1	2199.9	2264.0	2316.6	2392.2	2479.2	2550.1	2616.5	2664.6	2715.0
42.5°	1636.7	1710.0	1806.2	1900.0	1993.9	2096.9	2211.4	2309.8	2396.8	2463.2	2515.8
45°	1275.1	1375.8	1492.6	1611.6	1732.9	1861.1	1980.2	2080.9	2172.5	2241.1	2293.8
47.5°	1027.8	1137.7	1270.5	1401.0	1538.3	1673.4	1806.2	1893.2	1968.7	2023.6	2071.7
50°	849.3	966.1	1105.7	1254.5	1391.8	1526.9	1641.3	1726.0	1787.9	1835.9	1865.7
52.5°	709.6	833.2	982.1	1130.8	1268.2	1391.8	1494.9	1558.9	1609.3	1643.6	1671.1
55°	586.0	705.1	844.7	984.4	1119.4	1236.1	1320.8	1368.9	1407.8	1428.4	1444.5
57.5°	478.5	588.3	716.5	844.7	961.5	1057.6	1124.0	1172.1	1190.4	1206.4	1204.1
60°	375.5	478.5	595.2	705.1	805.8	883.6	931.7	959.2	972.9	979.8	975.2
62.5°	295.3	389.2	478.5	574.6	647.8	714.2	760.0	760.0	766.9	769.2	776.1
65°	219.7	290.7	368.6	439.5	499.0	542.5	567.7	574.6	583.8	581.5	576.9
67.5°	162.5	215.2	272.4	325.0	366.3	393.7	412.0	428.1	425.8	421.2	418.9
70°	112.2	146.5	196.9	228.9	258.7	286.2	290.7	293.0	295.3	297.6	293.0
72.5°	77.9	103.0	130.5	158.0	176.3	187.7	199.2	201.4	201.4	201.4	199.2
75°	38.9	52.7	77.9	89.3	105.3	109.9	119.0	119.0	125.9	116.7	114.4
77.5°	34.3	41.2	54.9	64.1	71.0	77.9	80.1	87.0	84.7	80.1	82.4
80°	20.6	25.2	34.3	38.9	48.1	50.4	52.7	54.9	52.7	54.9	54.9
82.5°	16.0	18.3	22.9	22.9	29.7	29.7	32.0	32.0	34.3	34.3	34.3
85°	9.1	16.0	13.7	27.4	18.3	18.3	22.9	27.4	22.9	22.9	27.4
87.5°	9.1	9.1	6.9	9.1	9.1	9.1	11.4	13.7	13.7	16.0	13.7
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: P249293

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4264.7	4264.7	4264.7	4264.7
2.5°	4271.6	4276.2	4269.3	4267.0
5°	4278.5	4278.5	4273.9	4273.9
7.5°	4278.5	4278.5	4271.6	4267.0
10°	4260.2	4260.2	4253.3	4248.7
12.5°	4225.8	4225.8	4223.5	4216.7
15°	4182.4	4182.4	4173.2	4166.3
17.5°	4122.8	4127.4	4116.0	4116.0
20°	4058.7	4056.4	4047.3	4042.7
22.5°	3992.4	3987.8	3985.5	3971.7
25°	3921.4	3916.8	3909.9	3903.1
27.5°	3800.1	3797.8	3790.9	3781.8
30°	3614.6	3612.3	3603.2	3603.2
32.5°	3374.3	3372.0	3362.8	3365.1
35°	3124.7	3133.9	3129.3	3120.2
37.5°	2916.4	2923.3	2927.9	2923.3
40°	2742.4	2763.0	2765.3	2769.9
42.5°	2557.0	2584.5	2593.7	2598.2
45°	2334.9	2360.2	2380.8	2376.2
47.5°	2108.3	2126.6	2145.0	2131.2
50°	1890.9	1902.3	1909.2	1909.2
52.5°	1684.9	1684.9	1682.6	1684.9
55°	1449.0	1449.0	1439.9	1444.5
57.5°	1201.8	1206.4	1199.5	1188.1
60°	972.9	961.5	956.9	950.0
62.5°	757.7	757.7	741.7	762.3
65°	567.7	560.9	554.0	551.7
67.5°	412.0	409.8	402.9	400.6
70°	290.7	281.6	279.3	274.7
72.5°	194.6	194.6	190.0	190.0
75°	119.0	107.6	105.3	107.6
77.5°	82.4	80.1	80.1	77.9
80°	54.9	52.7	57.2	50.4
82.5°	34.3	36.6	34.3	36.6
85°	22.9	27.4	25.2	25.2
87.5°	13.7	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)