

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: P250893

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70835 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7959.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

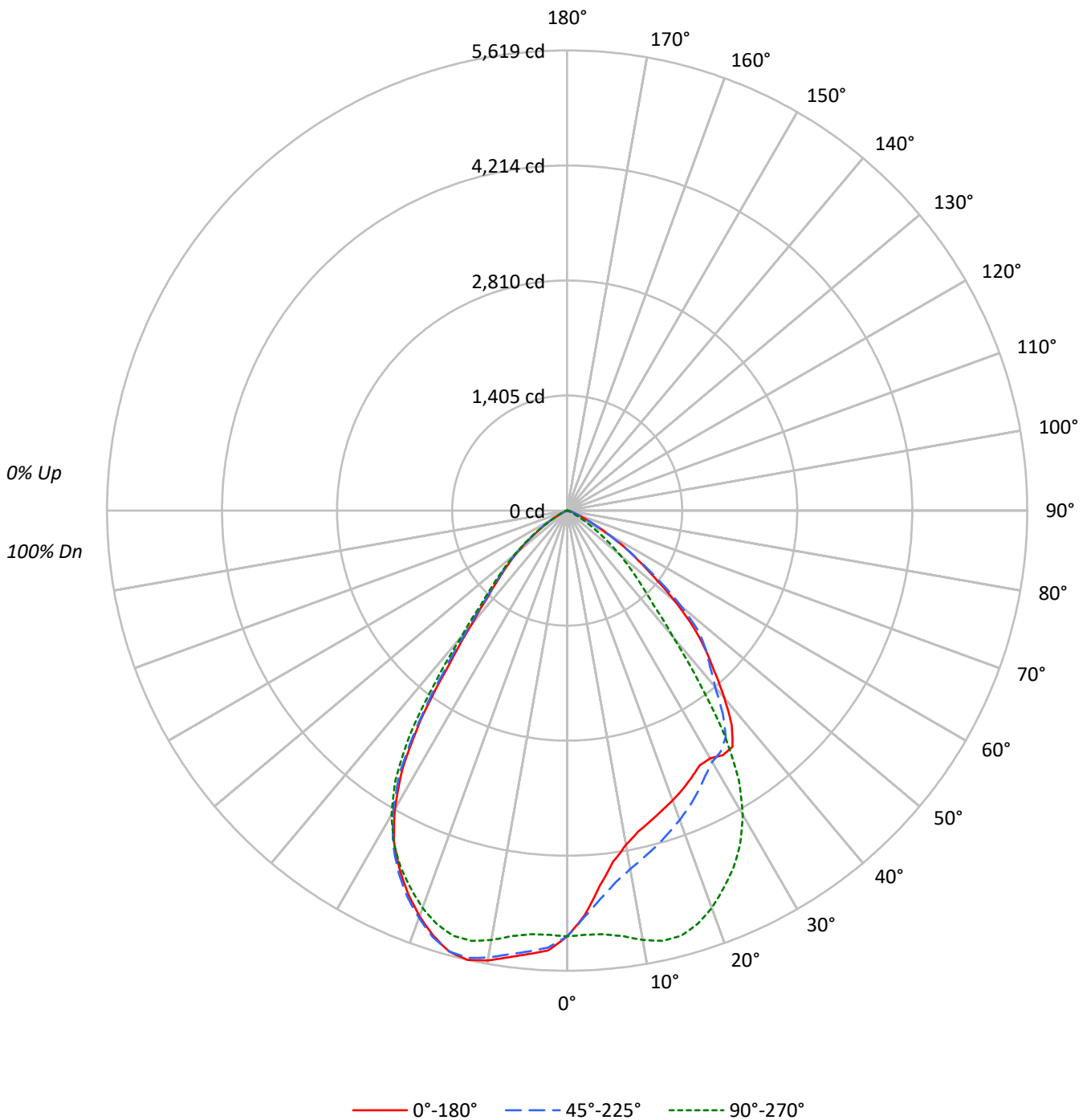
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	160333	160333	160333
5°	142253	160732	168260
10°	129697	166699	174655
15°	125340	171570	177980
20°	123550	169455	172953
25°	122337	163612	164636
30°	124332	152692	149869
35°	132526	126356	117201
40°	120102	80894	73250
45°	103659	55344	51533
50°	81789	40369	38009
55°	56772	24822	23354
60°	36146	12557	11206
65°	18044	4984	3787
70°	9981	2461	1352
75°	7160	1787	655
80°	5825	1208	249
85°	6298	955	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	6.1
10°-20°	1399.7	17.6
20°-30°	2031.5	25.5
30°-40°	2000.9	25.1
40°-50°	1254.2	15.8
50°-60°	605.2	7.6
60°-70°	146.5	1.8
70°-80°	29.6	0.4
80°-90°	6.8	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°	3915.8	49.2
0°-40°	5916.7	74.3
0°-60°	7776.1	97.7
0°-90°	7959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7959.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5200	5200	5200	5200	5200	
5°	4596	4751	5193	5403	5436	425
15°	3926	4235	5374	5571	5575	1110
25°	3596	3783	4809	4874	4839	1664
35°	3520	3377	3357	3165	3113	2130
45°	2377	2393	1269	1216	1182	1817
55°	1056	1090	462	456	434	972
65°	247	244	68	59	52	282
75°	60	52	15	7	6	67
85°	18	14	3	0	0	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5
2.5°	4942.6	4911.2	4852.5	4923.5	4923.5	4883.9	4963.1	4915.3	4953.6	5013.7	4960.4
5°	4595.6	4569.7	4520.5	4595.6	4605.2	4568.3	4663.9	4628.4	4684.4	4758.2	4751.4
7.5°	4321.0	4288.3	4243.2	4321.0	4336.1	4311.5	4403.0	4386.6	4460.4	4556.0	4572.4
10°	4142.1	4107.9	4068.3	4139.3	4150.3	4133.9	4226.8	4217.2	4289.6	4400.3	4444.0
12.5°	4015.0	3986.3	3942.6	4017.8	4030.1	4006.8	4094.3	4090.2	4165.3	4281.4	4336.1
15°	3926.2	3892.1	3852.5	3916.7	3933.1	3907.1	3990.4	3982.2	4058.7	4173.5	4235.0
17.5°	3842.9	3811.5	3770.5	3830.6	3847.0	3819.7	3901.6	3888.0	3953.6	4062.8	4125.7
20°	3765.0	3730.9	3694.0	3755.5	3765.0	3733.6	3815.6	3797.8	3856.6	3957.7	4019.1
22.5°	3684.4	3648.9	3610.7	3670.8	3680.3	3648.9	3724.0	3703.6	3758.2	3849.7	3905.7
25°	3595.6	3562.8	3524.6	3580.6	3588.8	3554.6	3633.9	3607.9	3655.7	3736.3	3782.8
27.5°	3506.8	3475.4	3433.1	3490.4	3494.5	3461.7	3534.2	3498.6	3538.3	3612.0	3651.6
30°	3491.8	3456.3	3412.6	3459.0	3460.4	3418.0	3486.3	3444.0	3465.8	3520.5	3543.7
32.5°	3539.6	3504.1	3459.0	3497.3	3493.2	3446.7	3512.3	3460.4	3467.2	3495.9	3490.4
35°	3520.5	3478.1	3424.9	3465.8	3465.8	3409.8	3475.4	3413.9	3407.1	3411.2	3377.0
37.5°	3303.3	3270.5	3219.9	3259.6	3255.5	3213.1	3263.7	3213.1	3189.9	3180.3	3118.9
40°	2983.6	2944.0	2905.7	2948.1	2952.2	2907.1	2972.7	2915.3	2908.5	2881.1	2808.7
42.5°	2659.8	2646.2	2609.3	2644.8	2663.9	2625.7	2680.3	2653.0	2657.1	2650.3	2582.0
45°	2377.0	2353.8	2326.5	2367.5	2379.8	2360.7	2415.3	2398.9	2415.3	2449.5	2393.4
47.5°	2072.4	2049.2	2019.1	2062.8	2084.7	2049.2	2095.6	2090.2	2114.8	2173.5	2168.0
50°	1704.9	1688.5	1683.1	1688.5	1702.2	1685.8	1718.6	1719.9	1736.3	1816.9	1822.4
52.5°	1349.7	1345.6	1326.5	1344.3	1344.3	1318.3	1351.1	1336.1	1352.5	1407.1	1442.6
55°	1056.0	1051.9	1039.6	1056.0	1038.3	1028.7	1038.3	1023.2	1010.9	1053.3	1090.2
57.5°	822.4	808.7	793.7	800.5	799.2	778.7	789.6	771.9	762.3	777.3	810.1
60°	586.1	582.0	568.3	575.1	580.6	565.6	576.5	568.3	551.9	564.2	565.6
62.5°	389.3	392.1	383.9	385.2	381.1	378.4	385.2	389.3	385.2	379.8	381.1
65°	247.3	245.9	244.5	245.9	248.6	243.2	247.3	250.0	245.9	245.9	244.5
67.5°	163.9	159.8	155.7	158.5	161.2	157.1	161.2	159.8	161.2	159.8	155.7
70°	110.7	109.3	107.9	109.3	109.3	106.6	109.3	107.9	109.3	107.9	103.8
72.5°	80.6	80.6	79.2	80.6	80.6	77.9	79.2	76.5	77.9	76.5	73.8
75°	60.1	60.1	58.7	60.1	58.7	57.4	58.7	57.4	54.6	54.6	51.9
77.5°	43.7	43.7	43.7	43.7	43.7	42.3	42.3	41.0	39.6	38.3	38.3
80°	32.8	31.4	31.4	31.4	31.4	30.1	31.4	30.1	28.7	27.3	26.0
82.5°	23.2	24.6	23.2	23.2	23.2	21.9	23.2	21.9	21.9	20.5	17.8
85°	17.8	17.8	17.8	17.8	17.8	16.4	16.4	16.4	15.0	15.0	13.7
87.5°	9.6	9.6	9.6	10.9	9.6	9.6	9.6	8.2	8.2	6.8	6.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5
2.5°	5031.4	5038.3	5023.2	5046.4	5136.6	5064.2	5094.3	5103.8	5172.1	5184.4	5176.2
5°	4840.2	4870.2	4889.3	4941.3	5041.0	4989.1	5042.3	5076.5	5163.9	5192.6	5199.5
7.5°	4689.9	4752.7	4799.2	4883.9	5001.4	4961.7	5042.3	5098.4	5204.9	5241.8	5259.6
10°	4577.9	4673.5	4754.1	4870.2	5002.7	4976.8	5082.0	5161.2	5280.1	5323.8	5345.6
12.5°	4493.2	4609.3	4717.2	4864.8	5008.2	4995.9	5123.0	5213.1	5338.8	5382.5	5408.5
15°	4400.3	4534.2	4659.8	4825.1	4979.5	4976.8	5113.4	5209.0	5337.4	5374.3	5398.9
17.5°	4289.6	4433.1	4571.0	4750.0	4903.0	4905.7	5043.7	5138.0	5263.7	5293.7	5310.1
20°	4177.6	4319.7	4457.7	4642.1	4792.3	4796.4	4931.7	5019.1	5139.3	5163.9	5168.0
22.5°	4058.7	4191.3	4329.2	4512.3	4657.1	4659.8	4793.7	4875.7	4978.1	4990.4	5001.4
25°	3923.5	4053.3	4183.1	4364.8	4502.7	4510.9	4632.5	4704.9	4799.2	4808.7	4812.8
27.5°	3782.8	3889.3	4013.7	4169.4	4308.7	4303.3	4418.0	4500.0	4584.7	4579.2	4577.9
30°	3640.7	3729.5	3806.0	3956.3	4058.7	4062.8	4170.8	4210.4	4299.2	4288.3	4286.9
32.5°	3541.0	3564.2	3584.7	3661.2	3758.2	3724.0	3797.8	3847.0	3908.5	3904.4	3905.7
35°	3357.9	3315.6	3254.1	3265.0	3323.8	3270.5	3310.1	3308.7	3371.6	3356.6	3374.3
37.5°	3045.1	2924.9	2788.3	2710.4	2721.3	2654.4	2640.7	2673.5	2695.4	2653.0	2668.0
40°	2711.7	2534.2	2321.0	2143.4	2133.9	2050.5	2035.5	2002.7	2045.1	2009.6	2020.5
42.5°	2465.8	2230.9	1950.8	1735.0	1688.5	1618.9	1577.9	1572.4	1584.7	1560.1	1553.3
45°	2277.3	2027.3	1706.3	1459.0	1407.1	1332.0	1291.0	1276.0	1277.3	1269.1	1262.3
47.5°	2056.0	1804.6	1479.5	1226.8	1168.0	1097.0	1056.0	1046.4	1051.9	1041.0	1032.8
50°	1750.0	1524.6	1228.1	997.3	945.4	893.4	860.7	851.1	849.7	841.5	836.1
52.5°	1420.8	1233.6	976.8	784.2	737.7	687.2	663.9	651.6	653.0	644.8	636.6
55°	1099.7	983.6	756.8	592.9	550.5	510.9	489.1	474.0	469.9	461.7	457.7
57.5°	818.3	740.4	566.9	427.6	403.0	364.8	342.9	325.1	322.4	318.3	316.9
60°	573.8	517.8	398.9	304.6	276.0	252.7	230.9	213.1	204.9	203.6	199.5
62.5°	371.6	337.4	262.3	203.6	181.7	165.3	143.4	131.1	125.7	120.2	121.6
65°	230.9	204.9	163.9	131.1	118.9	106.6	90.2	79.2	73.8	68.3	69.7
67.5°	143.4	128.4	103.8	84.7	76.5	66.9	54.6	46.4	42.3	38.3	35.5
70°	97.0	83.3	71.0	60.1	54.6	47.8	39.6	32.8	30.1	27.3	24.6
72.5°	68.3	61.5	51.9	45.1	41.0	35.5	30.1	26.0	23.2	20.5	17.8
75°	49.2	43.7	38.3	32.8	30.1	27.3	23.2	20.5	17.8	15.0	12.3
77.5°	35.5	31.4	27.3	24.6	23.2	19.1	16.4	15.0	13.7	10.9	8.2
80°	24.6	21.9	17.8	16.4	16.4	13.7	12.3	10.9	9.6	6.8	5.5
82.5°	16.4	15.0	13.7	12.3	10.9	9.6	9.6	6.8	5.5	4.1	2.7
85°	12.3	10.9	9.6	8.2	8.2	6.8	5.5	4.1	4.1	2.7	1.4
87.5°	6.8	6.8	5.5	4.1	4.1	2.7	2.7	1.4	1.4	1.4	1.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5
2.5°	5245.9	5250.0	5273.2	5255.5	5300.5	5333.3	5316.9	5353.8	5341.5	5338.8	5381.1
5°	5281.4	5291.0	5322.4	5306.0	5355.2	5390.7	5374.3	5415.3	5403.0	5400.3	5444.0
7.5°	5349.7	5359.3	5386.6	5373.0	5424.9	5456.3	5435.8	5480.9	5464.5	5463.1	5505.5
10°	5435.8	5449.5	5472.7	5459.0	5506.8	5534.2	5513.7	5557.4	5542.3	5535.5	5582.0
12.5°	5500.0	5509.6	5532.8	5521.9	5568.3	5588.8	5571.0	5613.4	5594.3	5588.8	5629.8
15°	5485.0	5494.5	5513.7	5504.1	5547.8	5566.9	5543.7	5590.2	5571.0	5560.1	5597.0
17.5°	5389.3	5394.8	5408.5	5398.9	5445.4	5457.6	5431.7	5478.1	5460.4	5441.3	5476.8
20°	5248.6	5245.9	5254.1	5250.0	5288.3	5295.1	5278.7	5312.8	5292.3	5281.4	5301.9
22.5°	5073.8	5071.0	5076.5	5065.6	5103.8	5107.9	5083.3	5124.3	5103.8	5083.3	5117.5
25°	4879.8	4864.8	4862.0	4866.1	4892.1	4896.2	4870.2	4900.3	4874.3	4857.9	4890.7
27.5°	4640.7	4621.6	4617.5	4621.6	4647.5	4628.4	4606.6	4628.4	4602.5	4587.4	4607.9
30°	4345.6	4318.3	4306.0	4297.8	4325.1	4318.3	4267.8	4292.3	4251.4	4229.5	4244.5
32.5°	3948.1	3933.1	3900.3	3881.1	3907.1	3855.2	3823.8	3823.8	3807.4	3770.5	3778.7
35°	3396.2	3373.0	3342.9	3326.5	3330.6	3260.9	3209.0	3219.9	3165.3	3155.7	3159.8
37.5°	2698.1	2659.8	2648.9	2614.8	2623.0	2561.5	2490.4	2491.8	2463.1	2433.1	2423.5
40°	2027.3	2020.5	2009.6	1980.9	1991.8	1924.9	1897.5	1898.9	1879.8	1857.9	1868.9
42.5°	1566.9	1545.1	1538.3	1528.7	1531.4	1520.5	1485.0	1489.1	1472.7	1467.2	1461.7
45°	1273.2	1250.0	1233.6	1241.8	1241.8	1229.5	1215.8	1224.0	1215.8	1204.9	1210.4
47.5°	1049.2	1027.3	1019.1	1017.8	1027.3	1019.1	1005.5	1008.2	1006.8	1002.7	1000.0
50°	837.4	832.0	825.1	821.0	825.1	822.4	810.1	816.9	821.0	807.4	811.5
52.5°	638.0	638.0	636.6	627.0	635.2	627.0	625.7	628.4	624.3	618.9	617.5
55°	467.2	463.1	456.3	454.9	457.7	454.9	452.2	453.6	456.3	442.6	442.6
57.5°	319.7	316.9	312.8	312.8	318.3	311.5	307.4	312.8	307.4	301.9	301.9
60°	204.9	203.6	199.5	199.5	199.5	198.1	194.0	195.4	198.1	189.9	191.3
62.5°	123.0	118.9	117.5	116.1	117.5	116.1	116.1	114.8	113.4	113.4	109.3
65°	66.9	64.2	61.5	62.8	62.8	61.5	61.5	61.5	58.7	57.4	56.0
67.5°	34.2	31.4	31.4	30.1	30.1	30.1	30.1	28.7	28.7	28.7	27.3
70°	21.9	20.5	19.1	19.1	19.1	17.8	17.8	17.8	17.8	17.8	16.4
72.5°	15.0	13.7	12.3	12.3	12.3	10.9	10.9	10.9	10.9	9.6	9.6
75°	10.9	9.6	8.2	8.2	8.2	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	6.8	5.5	5.5	5.5	5.5	4.1	4.1	4.1	4.1	4.1	2.7
80°	4.1	4.1	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4
82.5°	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P250893

CATALOG NUMBER: LSR8B70D010 EC8B70835 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5
2.5°	5366.1	5355.2	5362.0	5412.6	5390.7	5383.9	5326.5	5377.0
5°	5430.3	5422.1	5422.1	5479.5	5453.6	5448.1	5392.1	5435.8
7.5°	5490.4	5482.2	5483.6	5542.3	5521.9	5513.7	5457.6	5501.4
10°	5568.3	5562.8	5564.2	5620.2	5598.4	5590.2	5532.8	5577.9
12.5°	5614.8	5606.6	5606.6	5666.7	5642.1	5629.8	5575.1	5618.9
15°	5579.2	5566.9	5566.9	5627.0	5599.7	5582.0	5534.2	5575.1
17.5°	5457.6	5445.4	5445.4	5497.3	5476.8	5450.8	5401.6	5439.9
20°	5288.3	5273.2	5269.1	5329.2	5300.5	5277.3	5233.6	5270.5
22.5°	5097.0	5090.2	5077.9	5138.0	5112.0	5087.4	5041.0	5069.7
25°	4867.5	4856.6	4844.3	4903.0	4877.0	4852.5	4815.6	4838.8
27.5°	4582.0	4583.3	4576.5	4623.0	4597.0	4583.3	4538.3	4576.5
30°	4236.3	4221.3	4215.8	4270.5	4245.9	4228.1	4172.1	4209.0
32.5°	3785.5	3763.7	3735.0	3796.4	3754.1	3739.1	3691.3	3744.5
35°	3129.8	3123.0	3097.0	3148.9	3125.7	3098.4	3068.3	3113.4
37.5°	2419.4	2424.9	2422.1	2435.8	2422.1	2404.4	2371.6	2355.2
40°	1847.0	1833.3	1822.4	1847.0	1818.3	1818.3	1799.2	1819.7
42.5°	1448.1	1442.6	1456.3	1461.7	1445.4	1442.6	1439.9	1438.5
45°	1195.4	1195.4	1198.1	1203.6	1198.1	1195.4	1187.2	1181.7
47.5°	985.0	990.4	985.0	1002.7	993.2	990.4	974.0	980.9
50°	797.8	791.0	797.8	803.3	804.6	796.4	788.3	792.3
52.5°	618.9	607.9	605.2	613.4	607.9	607.9	602.5	601.1
55°	435.8	439.9	433.1	439.9	437.2	433.1	429.0	434.4
57.5°	295.1	296.4	293.7	297.8	291.0	292.3	291.0	289.6
60°	191.3	185.8	185.8	189.9	183.1	183.1	181.7	181.7
62.5°	109.3	107.9	107.9	106.6	105.2	105.2	105.2	102.5
65°	56.0	54.6	53.3	53.3	53.3	53.3	51.9	51.9
67.5°	27.3	26.0	26.0	27.3	26.0	26.0	26.0	26.0
70°	16.4	16.4	15.0	16.4	15.0	15.0	15.0	15.0
72.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)