

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: P249295

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249295
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: LSR8B150D010 EC8B1509730 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: 12067.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

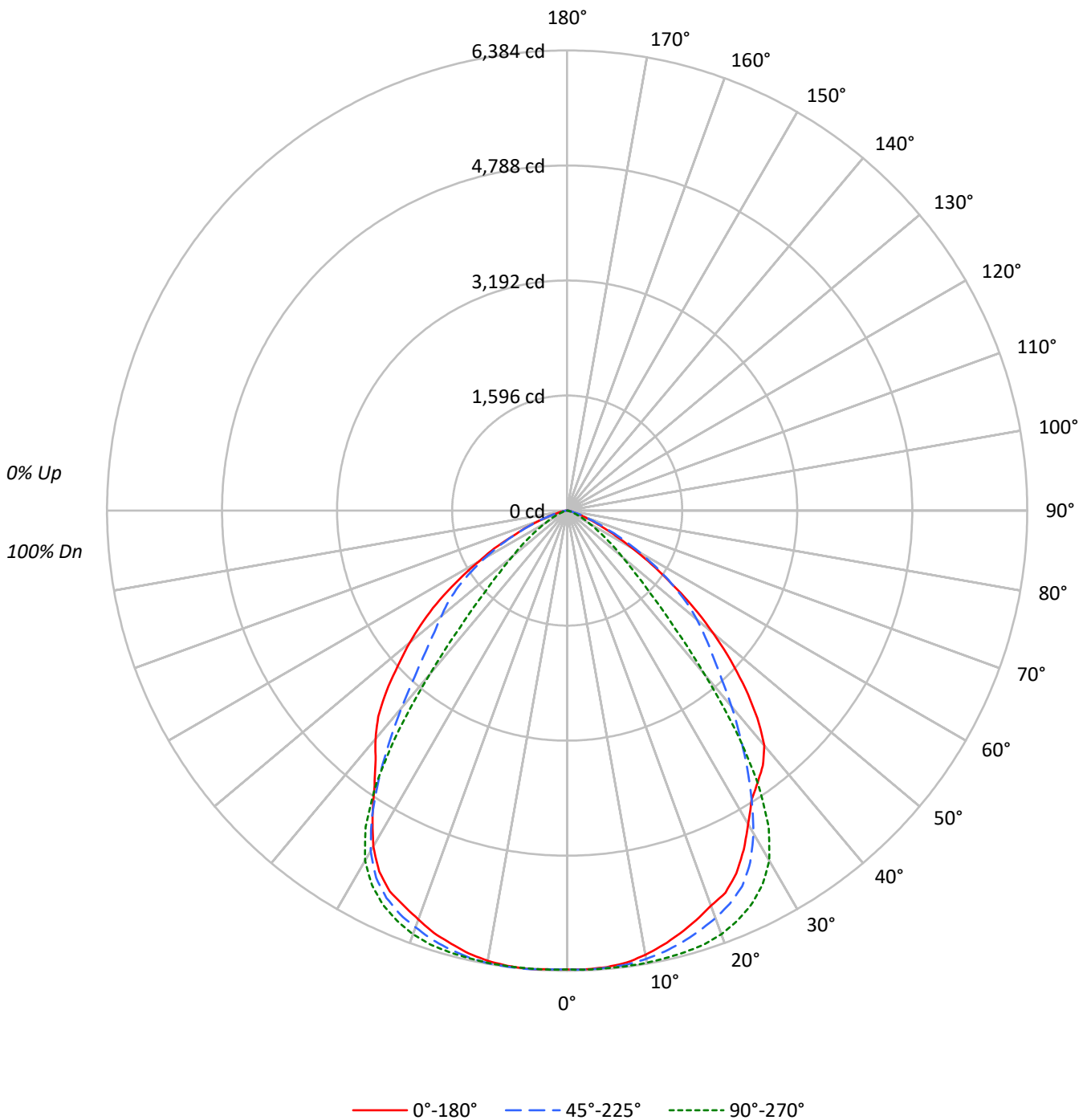
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	607.6	5.0
10°-20°	1764.6	14.6
20°-30°	2678.3	22.2
30°-40°	2813.1	23.3
40°-50°	2109.0	17.5
50°-60°	1353.2	11.2
60°-70°	578.9	4.8
70°-80°	136.8	1.1
80°-90°	25.4	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°	5050.6	41.9
0°-40°	7863.6	65.2
0°-60°	11325.9	93.9
0°-90°	12067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12067.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6367	6367	6367	6367	6367	
5°	6356	6367	6374	6384	6380	604
15°	6069	6196	6339	6298	6220	1712
25°	5553	5748	6039	5929	5827	2537
35°	4607	4350	4610	4556	4658	2891
45°	3500	2860	1644	2778	3547	2680
55°	1770	1770	612	1845	2156	1606
65°	533	629	195	810	824	569
75°	82	96	27	164	161	119
85°	27	17	14	27	38	29
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°	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8
2.5°	6370.2	6377.1	6373.6	6373.6	6370.2	6373.6	6373.6	6380.5	6380.5	6373.6	6370.2
5°	6356.5	6363.4	6363.4	6356.5	6356.5	6373.6	6363.4	6370.2	6370.2	6366.8	6366.8
7.5°	6325.8	6325.8	6339.4	6329.2	6329.2	6339.4	6336.0	6342.9	6349.7	6353.2	6353.2
10°	6257.4	6264.3	6267.7	6267.7	6271.1	6281.3	6288.2	6301.9	6308.7	6315.5	6319.0
12.5°	6172.0	6182.2	6185.7	6182.2	6192.5	6206.2	6223.3	6240.4	6250.6	6264.3	6274.6
15°	6069.4	6069.4	6076.3	6086.6	6093.4	6113.9	6131.0	6151.5	6178.8	6195.9	6213.0
17.5°	5956.7	5963.6	5973.8	5973.8	5987.5	6021.6	6031.9	6062.7	6093.4	6110.5	6144.7
20°	5833.7	5840.5	5850.8	5857.6	5874.7	5902.0	5922.5	5949.9	5984.1	6014.8	6048.9
22.5°	5738.0	5724.3	5731.1	5738.0	5755.1	5779.0	5802.9	5837.1	5871.3	5902.0	5936.2
25°	5553.4	5556.8	5567.1	5573.9	5594.5	5615.0	5642.3	5683.3	5714.0	5748.2	5785.8
27.5°	5304.0	5307.4	5324.5	5324.5	5341.5	5375.7	5392.8	5427.0	5468.0	5502.2	5546.6
30°	5020.3	5027.1	5027.1	5040.8	5051.0	5068.2	5085.2	5119.4	5139.9	5170.7	5232.2
32.5°	4760.6	4767.4	4763.9	4760.6	4750.3	4746.9	4743.5	4750.3	4757.2	4767.4	4791.3
35°	4606.8	4589.7	4576.1	4552.1	4524.8	4490.6	4459.8	4418.8	4381.2	4350.4	4316.3
37.5°	4459.8	4456.4	4435.9	4401.7	4347.0	4285.6	4213.8	4124.9	4036.0	3940.4	3848.1
40°	4254.8	4244.5	4227.4	4179.6	4118.1	4042.9	3947.2	3837.8	3694.3	3547.4	3397.0
42.5°	3906.2	3909.6	3889.1	3851.5	3793.4	3721.6	3622.5	3502.9	3349.2	3174.8	2980.1
45°	3499.5	3499.5	3492.7	3461.9	3420.9	3362.8	3287.6	3188.5	3038.2	2860.4	2651.9
47.5°	3075.7	3079.2	3068.9	3062.1	3045.0	3007.4	2952.7	2877.6	2771.6	2600.7	2392.2
50°	2645.2	2645.2	2662.2	2658.8	2658.8	2645.2	2621.3	2576.8	2484.5	2347.8	2153.1
52.5°	2214.5	2221.4	2231.7	2245.3	2262.4	2289.7	2262.4	2241.9	2183.8	2077.8	1910.4
55°	1770.2	1777.1	1794.2	1818.1	1838.6	1866.0	1872.8	1872.8	1842.0	1770.2	1643.8
57.5°	1390.9	1380.7	1394.4	1414.9	1442.2	1469.5	1490.0	1514.0	1510.5	1462.7	1360.2
60°	1045.8	1049.2	1059.4	1080.0	1100.4	1124.4	1151.7	1172.2	1182.5	1158.6	1093.6
62.5°	762.1	762.1	775.7	796.2	806.5	840.7	857.8	868.1	878.3	874.8	833.9
65°	533.2	539.9	546.8	557.1	567.3	587.8	598.1	618.5	625.4	628.8	598.1
67.5°	376.0	365.7	372.5	379.3	389.6	403.3	423.8	423.8	434.0	434.0	413.5
70°	239.2	239.2	242.7	252.9	259.7	263.2	270.0	276.8	287.1	283.6	283.6
72.5°	160.6	157.2	160.6	164.1	167.5	177.7	177.7	181.1	188.0	191.4	177.7
75°	82.0	85.5	92.2	88.9	99.1	92.2	95.7	105.9	102.5	95.7	95.7
77.5°	68.3	68.3	68.3	65.0	71.7	71.7	68.3	75.2	71.7	71.7	68.3
80°	47.8	51.3	47.8	44.4	47.8	44.4	44.4	44.4	44.4	44.4	41.0
82.5°	37.6	30.8	34.2	30.8	34.2	34.2	30.8	27.3	27.3	30.8	27.3
85°	27.3	20.5	23.9	23.9	20.5	20.5	20.5	20.5	20.5	17.1	17.1
87.5°	17.1	10.3	10.3	10.3	13.6	13.6	13.6	10.3	13.6	13.6	6.9
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°	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8
2.5°	6377.1	6373.6	6380.5	6377.1	6377.1	6373.6	6377.1	6373.6	6380.5	6366.8	6370.2
5°	6377.1	6370.2	6373.6	6377.1	6380.5	6373.6	6373.6	6373.6	6380.5	6373.6	6377.1
7.5°	6363.4	6359.9	6370.2	6377.1	6373.6	6370.2	6377.1	6373.6	6380.5	6377.1	6383.8
10°	6336.0	6339.4	6346.3	6356.5	6359.9	6363.4	6370.2	6370.2	6380.5	6366.8	6373.6
12.5°	6295.0	6308.7	6325.8	6332.6	6346.3	6346.3	6353.2	6356.5	6363.4	6359.9	6370.2
15°	6243.8	6260.8	6281.3	6298.5	6315.5	6325.8	6336.0	6339.4	6349.7	6339.4	6342.9
17.5°	6182.2	6202.7	6233.5	6254.0	6281.3	6291.6	6305.2	6312.1	6322.4	6315.5	6319.0
20°	6096.8	6120.8	6154.9	6185.7	6202.7	6226.6	6243.8	6254.0	6260.8	6254.0	6257.4
22.5°	5977.2	6011.4	6055.8	6079.7	6113.9	6134.4	6137.8	6161.7	6178.8	6161.7	6168.6
25°	5837.1	5871.3	5905.5	5956.7	5987.5	6011.4	6035.3	6038.7	6055.8	6052.4	6048.9
27.5°	5604.7	5649.2	5707.2	5748.2	5789.2	5826.8	5854.2	5861.0	5878.1	5871.3	5874.7
30°	5286.8	5334.7	5389.4	5454.3	5512.4	5550.0	5584.2	5608.1	5625.2	5615.0	5611.5
32.5°	4835.8	4883.6	4941.7	5006.6	5075.0	5129.6	5170.7	5201.4	5221.9	5215.1	5198.0
35°	4319.8	4333.4	4371.0	4422.3	4480.3	4538.4	4576.1	4610.2	4634.1	4640.9	4640.9
37.5°	3790.0	3745.6	3718.3	3718.3	3752.4	3776.3	3810.5	3831.0	3868.6	3882.3	3892.5
40°	3277.3	3174.8	3079.2	3007.4	2959.6	2956.2	2956.2	2966.4	3000.6	3045.0	3086.0
42.5°	2819.4	2655.4	2508.4	2375.2	2279.5	2224.8	2200.9	2204.3	2231.7	2272.6	2341.0
45°	2453.8	2248.7	2064.2	1903.5	1773.7	1688.2	1647.2	1643.8	1664.3	1712.1	1787.4
47.5°	2170.1	1951.4	1742.9	1558.4	1418.3	1326.0	1278.1	1264.5	1278.1	1322.5	1411.4
50°	1934.3	1708.8	1493.5	1302.1	1151.7	1056.0	1011.6	994.5	1011.6	1049.2	1138.0
52.5°	1715.6	1483.2	1281.6	1097.0	936.4	854.4	806.5	796.2	806.5	850.9	922.8
55°	1462.7	1264.5	1066.2	881.7	741.6	659.6	622.0	611.8	622.0	663.0	738.2
57.5°	1213.2	1042.3	868.1	700.6	581.0	509.2	475.0	461.3	485.3	512.6	601.5
60°	980.8	844.1	697.1	550.2	451.1	386.2	358.8	355.4	362.2	396.4	457.9
62.5°	769.0	656.2	539.9	420.4	338.3	311.0	276.8	273.4	280.2	300.7	348.6
65°	553.7	481.9	393.0	307.6	242.7	205.0	191.4	194.8	201.6	215.3	259.7
67.5°	386.2	334.9	273.4	215.3	167.5	150.4	136.7	133.3	136.7	160.6	184.6
70°	259.7	229.0	184.6	164.1	116.2	92.2	95.7	85.5	99.1	99.1	119.6
72.5°	170.8	150.4	123.0	95.7	82.0	65.0	65.0	61.5	68.3	71.7	88.9
75°	88.9	68.3	68.3	47.8	34.2	17.1	30.8	27.3	23.9	27.3	34.2
77.5°	61.5	51.3	47.8	37.6	34.2	27.3	27.3	27.3	27.3	30.8	34.2
80°	37.6	37.6	27.3	23.9	20.5	17.1	20.5	20.5	20.5	20.5	23.9
82.5°	23.9	20.5	20.5	17.1	17.1	13.6	13.6	13.6	13.6	13.6	20.5
85°	20.5	13.6	13.6	10.3	13.6	23.9	10.3	13.6	13.6	13.6	10.3
87.5°	6.9	10.3	10.3	10.3	6.9	3.4	6.9	10.3	10.3	17.1	13.6
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°	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8
2.5°	6377.1	6380.5	6380.5	6377.1	6377.1	6370.2	6383.8	6373.6	6377.1	6390.7	6380.5
5°	6383.8	6387.3	6387.3	6383.8	6383.8	6383.8	6387.3	6387.3	6383.8	6380.5	6387.3
7.5°	6397.6	6394.1	6394.1	6387.3	6387.3	6380.5	6387.3	6377.1	6383.8	6377.1	6387.3
10°	6380.5	6383.8	6380.5	6377.1	6377.1	6373.6	6373.6	6363.4	6366.8	6356.5	6363.4
12.5°	6370.2	6366.8	6366.8	6359.9	6353.2	6346.3	6342.9	6332.6	6332.6	6308.7	6319.0
15°	6342.9	6346.3	6336.0	6322.4	6315.5	6298.5	6291.6	6277.9	6264.3	6247.2	6250.6
17.5°	6319.0	6308.7	6295.0	6281.3	6254.0	6240.4	6226.6	6206.2	6199.3	6178.8	6172.0
20°	6247.2	6240.4	6223.3	6199.3	6182.2	6151.5	6137.8	6117.3	6100.2	6079.7	6069.4
22.5°	6154.9	6148.0	6127.5	6103.6	6076.3	6062.7	6048.9	6011.4	5994.3	5973.8	5970.3
25°	6038.7	6028.5	6008.0	5980.6	5966.9	5929.4	5915.7	5888.3	5881.5	5861.0	5857.6
27.5°	5861.0	5847.3	5823.4	5789.2	5765.3	5741.4	5727.8	5707.2	5700.4	5679.8	5676.5
30°	5594.5	5577.3	5529.5	5515.9	5474.8	5450.9	5450.9	5423.5	5427.0	5413.3	5413.3
32.5°	5174.1	5146.8	5109.1	5081.8	5054.4	5040.8	5040.8	5030.5	5037.4	5037.4	5044.2
35°	4617.0	4579.5	4558.9	4541.9	4541.9	4555.5	4596.5	4606.8	4627.3	4644.4	4658.1
37.5°	3902.7	3899.4	3923.3	3943.8	3995.1	4053.2	4124.9	4186.5	4244.5	4285.6	4326.5
40°	3130.4	3215.9	3284.2	3379.9	3458.5	3571.3	3701.1	3807.1	3906.2	3978.0	4053.2
42.5°	2443.5	2552.9	2696.4	2836.5	2976.6	3130.4	3301.3	3448.3	3578.1	3677.2	3755.8
45°	1903.5	2053.9	2228.2	2405.9	2587.1	2778.5	2956.2	3106.5	3243.2	3345.7	3424.3
47.5°	1534.4	1698.5	1896.7	2091.5	2296.6	2498.2	2696.4	2826.3	2939.0	3021.0	3092.9
50°	1267.9	1442.2	1650.7	1872.8	2077.8	2279.5	2450.3	2576.8	2669.1	2740.8	2785.2
52.5°	1059.4	1243.9	1466.1	1688.2	1893.3	2077.8	2231.7	2327.3	2402.5	2453.8	2494.7
55°	874.8	1052.6	1261.1	1469.5	1671.2	1845.4	1971.9	2043.7	2101.7	2132.5	2156.4
57.5°	714.3	878.3	1069.7	1261.1	1435.3	1578.9	1678.0	1749.8	1777.1	1801.0	1797.6
60°	560.5	714.3	888.6	1052.6	1203.0	1319.1	1390.9	1431.9	1452.4	1462.7	1455.8
62.5°	440.8	581.0	714.3	857.8	967.2	1066.2	1134.6	1134.6	1144.8	1148.3	1158.6
65°	328.0	434.0	550.2	656.2	745.0	809.9	847.6	857.8	871.5	868.1	861.2
67.5°	242.7	321.3	406.6	485.3	546.8	587.8	615.1	639.1	635.7	628.8	625.4
70°	167.5	218.7	293.9	341.8	386.2	427.2	434.0	437.4	440.8	444.3	437.4
72.5°	116.2	153.8	194.8	235.8	263.2	280.2	297.4	300.7	300.7	300.7	297.4
75°	58.1	78.6	116.2	133.3	157.2	164.1	177.7	177.7	188.0	174.3	170.8
77.5°	51.3	61.5	82.0	95.7	105.9	116.2	119.6	129.9	126.4	119.6	123.0
80°	30.8	37.6	51.3	58.1	71.7	75.2	78.6	82.0	78.6	82.0	82.0
82.5°	23.9	27.3	34.2	34.2	44.4	44.4	47.8	47.8	51.3	51.3	51.3
85°	13.6	23.9	20.5	41.0	27.3	27.3	34.2	41.0	34.2	34.2	41.0
87.5°	13.6	13.6	10.3	13.6	13.6	13.6	17.1	20.5	20.5	23.9	20.5
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: P249295

CATALOG NUMBER: LSR8B150D010 EC8B1509730 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6366.8	6366.8	6366.8	6366.8
2.5°	6377.1	6383.8	6373.6	6370.2
5°	6387.3	6387.3	6380.5	6380.5
7.5°	6387.3	6387.3	6377.1	6370.2
10°	6359.9	6359.9	6349.7	6342.9
12.5°	6308.7	6308.7	6305.2	6295.0
15°	6243.8	6243.8	6230.1	6219.9
17.5°	6154.9	6161.7	6144.7	6144.7
20°	6059.2	6055.8	6042.2	6035.3
22.5°	5960.1	5953.3	5949.9	5929.4
25°	5854.2	5847.3	5837.1	5826.8
27.5°	5673.1	5669.6	5659.4	5645.7
30°	5396.2	5392.8	5379.1	5379.1
32.5°	5037.4	5034.0	5020.3	5023.8
35°	4664.9	4678.6	4671.7	4658.1
37.5°	4353.9	4364.2	4371.0	4364.2
40°	4094.1	4124.9	4128.3	4135.2
42.5°	3817.4	3858.3	3872.0	3878.8
45°	3485.8	3523.4	3554.2	3547.4
47.5°	3147.5	3174.8	3202.2	3181.7
50°	2822.9	2839.9	2850.2	2850.2
52.5°	2515.3	2515.3	2511.9	2515.3
55°	2163.3	2163.3	2149.6	2156.4
57.5°	1794.2	1801.0	1790.7	1773.7
60°	1452.4	1435.3	1428.5	1418.3
62.5°	1131.2	1131.2	1107.3	1138.0
65°	847.6	837.3	827.0	823.6
67.5°	615.1	611.8	601.5	598.1
70°	434.0	420.4	416.9	410.1
72.5°	290.5	290.5	283.6	283.6
75°	177.7	160.6	157.2	160.6
77.5°	123.0	119.6	119.6	116.2
80°	82.0	78.6	85.5	75.2
82.5°	51.3	54.7	51.3	54.7
85°	34.2	41.0	37.6	37.6
87.5°	20.5	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)