

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: P249286

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249286
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 EC8B1509727 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: 11405.0 lumens
Efficiency: N/A
Efficacy: 72.0 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

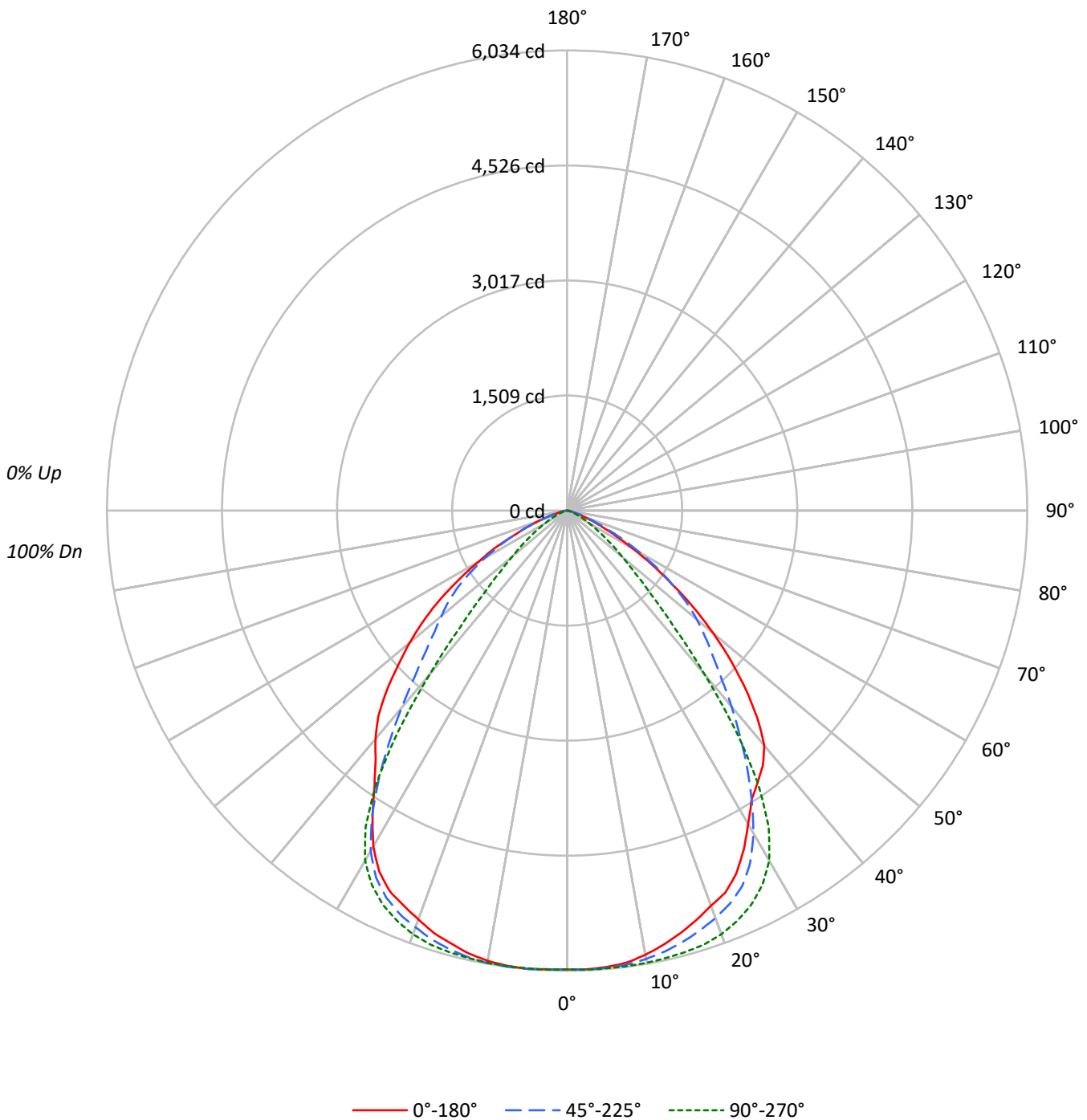
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	574.3	5.0
10°-20°	1667.8	14.6
20°-30°	2531.4	22.2
30°-40°	2658.7	23.3
40°-50°	1993.3	17.5
50°-60°	1279.0	11.2
60°-70°	547.1	4.8
70°-80°	129.3	1.1
80°-90°	24.0	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
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0°-30°	4773.5	41.9
0°-40°	7432.2	65.2
0°-60°	10704.6	93.9
0°-90°	11405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11405.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6018	6018	6018	6018	6018	
5°	6008	6018	6024	6034	6030	571
15°	5736	5856	5992	5953	5879	1618
25°	5249	5433	5708	5604	5507	2398
35°	4354	4112	4357	4306	4402	2733
45°	3308	2704	1554	2626	3353	2533
55°	1673	1673	578	1744	2038	1518
65°	504	594	184	766	778	538
75°	78	90	26	155	152	113
85°	26	16	13	26	36	27
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°	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5
2.5°	6020.7	6027.2	6024.0	6024.0	6020.7	6024.0	6024.0	6030.5	6030.5	6024.0	6020.7
5°	6007.8	6014.3	6014.3	6007.8	6007.8	6024.0	6014.3	6020.7	6020.7	6017.5	6017.5
7.5°	5978.8	5978.8	5991.7	5982.0	5982.0	5991.7	5988.4	5994.9	6001.4	6004.6	6004.6
10°	5914.1	5920.6	5923.8	5923.8	5927.1	5936.7	5943.2	5956.2	5962.6	5969.1	5972.3
12.5°	5833.4	5843.1	5846.3	5843.1	5852.8	5865.7	5881.9	5898.0	5907.7	5920.6	5930.3
15°	5736.5	5736.5	5742.9	5752.7	5759.1	5778.5	5794.6	5814.0	5839.8	5856.0	5872.2
17.5°	5629.9	5636.4	5646.0	5646.0	5659.0	5691.3	5701.0	5730.1	5759.1	5775.3	5807.6
20°	5513.7	5520.1	5529.8	5536.3	5552.4	5578.2	5597.6	5623.4	5655.8	5684.9	5717.1
22.5°	5423.2	5410.3	5416.7	5423.2	5439.4	5462.0	5484.6	5516.8	5549.2	5578.2	5610.6
25°	5248.7	5252.0	5261.7	5268.1	5287.6	5306.9	5332.8	5371.5	5400.6	5432.9	5468.4
27.5°	5013.0	5016.2	5032.4	5032.4	5048.5	5080.8	5096.9	5129.2	5168.1	5200.3	5242.3
30°	4744.9	4751.3	4751.3	4764.3	4773.9	4790.1	4806.2	4838.6	4857.9	4887.0	4945.2
32.5°	4499.4	4505.8	4502.6	4499.4	4489.7	4486.5	4483.2	4489.7	4496.2	4505.8	4528.4
35°	4354.1	4337.9	4325.0	4302.4	4276.6	4244.2	4215.2	4176.4	4140.9	4111.8	4079.5
37.5°	4215.2	4211.9	4192.5	4160.2	4108.5	4050.4	3982.6	3898.6	3814.6	3724.2	3637.0
40°	4021.4	4011.6	3995.5	3950.3	3892.1	3821.1	3730.7	3627.3	3491.6	3352.7	3210.6
42.5°	3691.9	3695.1	3675.8	3640.2	3585.3	3517.4	3423.8	3310.8	3165.4	3000.7	2816.6
45°	3307.5	3307.5	3301.1	3272.0	3233.2	3178.3	3107.3	3013.6	2871.5	2703.5	2506.5
47.5°	2907.0	2910.2	2900.5	2894.1	2877.9	2842.4	2790.7	2719.7	2619.6	2458.0	2261.0
50°	2500.1	2500.1	2516.2	2512.9	2512.9	2500.1	2477.4	2435.4	2348.2	2219.0	2034.9
52.5°	2093.0	2099.5	2109.2	2122.1	2138.2	2164.1	2138.2	2118.9	2064.0	1963.8	1805.6
55°	1673.1	1679.6	1695.7	1718.3	1737.8	1763.6	1770.0	1770.0	1740.9	1673.1	1553.6
57.5°	1314.6	1304.9	1317.9	1337.2	1363.1	1388.9	1408.3	1430.9	1427.7	1382.4	1285.6
60°	988.4	991.6	1001.3	1020.7	1040.1	1062.7	1088.5	1107.9	1117.6	1095.0	1033.6
62.5°	720.3	720.3	733.2	752.6	762.3	794.6	810.7	820.4	830.1	826.8	788.1
65°	503.9	510.3	516.8	526.5	536.2	555.5	565.2	584.6	591.1	594.3	565.2
67.5°	355.3	345.6	352.1	358.5	368.2	381.2	400.5	400.5	410.2	410.2	390.8
70°	226.1	226.1	229.4	239.0	245.5	248.7	255.2	261.6	271.3	268.1	268.1
72.5°	151.8	148.6	151.8	155.1	158.3	167.9	167.9	171.2	177.7	180.9	167.9
75°	77.5	80.8	87.2	84.0	93.7	87.2	90.4	100.1	96.9	90.4	90.4
77.5°	64.6	64.6	64.6	61.4	67.8	67.8	64.6	71.1	67.8	67.8	64.6
80°	45.2	48.4	45.2	42.0	45.2	42.0	42.0	42.0	42.0	42.0	38.7
82.5°	35.6	29.1	32.3	29.1	32.3	32.3	29.1	25.8	25.8	29.1	25.8
85°	25.8	19.4	22.6	22.6	19.4	19.4	19.4	19.4	19.4	16.1	16.1
87.5°	16.1	9.7	9.7	9.7	12.9	12.9	12.9	9.7	12.9	12.9	6.5
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°	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5
2.5°	6027.2	6024.0	6030.5	6027.2	6027.2	6024.0	6027.2	6024.0	6030.5	6017.5	6020.7
5°	6027.2	6020.7	6024.0	6027.2	6030.5	6024.0	6024.0	6024.0	6030.5	6024.0	6027.2
7.5°	6014.3	6011.0	6020.7	6027.2	6024.0	6020.7	6027.2	6024.0	6030.5	6027.2	6033.6
10°	5988.4	5991.7	5998.1	6007.8	6011.0	6014.3	6020.7	6020.7	6030.5	6017.5	6024.0
12.5°	5949.7	5962.6	5978.8	5985.2	5998.1	5998.1	6004.6	6007.8	6014.3	6011.0	6020.7
15°	5901.2	5917.4	5936.7	5952.9	5969.1	5978.8	5988.4	5991.7	6001.4	5991.7	5994.9
17.5°	5843.1	5862.4	5891.5	5910.9	5936.7	5946.5	5959.3	5965.8	5975.5	5969.1	5972.3
20°	5762.3	5785.0	5817.2	5846.3	5862.4	5885.0	5901.2	5910.9	5917.4	5910.9	5914.1
22.5°	5649.3	5681.6	5723.6	5746.2	5778.5	5797.9	5801.1	5823.7	5839.8	5823.7	5830.2
25°	5516.8	5549.2	5581.5	5629.9	5659.0	5681.6	5704.2	5707.5	5723.6	5720.3	5717.1
27.5°	5297.2	5339.2	5394.1	5432.9	5471.6	5507.2	5533.0	5539.4	5555.6	5549.2	5552.4
30°	4996.8	5042.1	5093.8	5155.1	5210.0	5245.5	5277.8	5300.4	5316.6	5306.9	5303.7
32.5°	4570.5	4615.7	4670.6	4732.0	4796.6	4848.2	4887.0	4916.1	4935.5	4929.0	4912.9
35°	4082.8	4095.7	4131.2	4179.7	4234.5	4289.4	4325.0	4357.3	4379.9	4386.3	4386.3
37.5°	3582.1	3540.1	3514.3	3514.3	3546.5	3569.1	3601.5	3620.8	3656.4	3669.3	3679.0
40°	3097.5	3000.7	2910.2	2842.4	2797.2	2794.0	2794.0	2803.6	2835.9	2877.9	2916.7
42.5°	2664.8	2509.7	2370.8	2244.9	2154.4	2102.8	2080.2	2083.4	2109.2	2148.0	2212.5
45°	2319.1	2125.4	1950.9	1799.1	1676.4	1595.6	1556.9	1553.6	1573.0	1618.2	1689.3
47.5°	2051.1	1844.3	1647.3	1472.9	1340.5	1253.2	1208.0	1195.1	1208.0	1250.0	1334.0
50°	1828.2	1615.0	1411.5	1230.6	1088.5	998.1	956.1	939.9	956.1	991.6	1075.6
52.5°	1621.4	1401.8	1211.3	1036.8	885.0	807.5	762.3	752.6	762.3	804.2	872.1
55°	1382.4	1195.1	1007.8	833.3	700.9	623.4	587.8	578.2	587.8	626.7	697.7
57.5°	1146.7	985.1	820.4	662.1	549.1	481.2	449.0	436.0	458.6	484.5	568.5
60°	927.0	797.8	658.9	520.0	426.4	365.0	339.1	335.9	342.4	374.7	432.8
62.5°	726.8	620.2	510.3	397.3	319.8	293.9	261.6	258.4	264.8	284.2	329.5
65°	523.3	455.5	371.5	290.7	229.4	193.8	180.9	184.1	190.5	203.5	245.5
67.5°	365.0	316.5	258.4	203.5	158.3	142.1	129.2	126.0	129.2	151.8	174.4
70°	245.5	216.4	174.4	155.1	109.9	87.2	90.4	80.8	93.7	93.7	113.0
72.5°	161.5	142.1	116.3	90.4	77.5	61.4	61.4	58.2	64.6	67.8	84.0
75°	84.0	64.6	64.6	45.2	32.3	16.1	29.1	25.8	22.6	25.8	32.3
77.5°	58.2	48.4	45.2	35.6	32.3	25.8	25.8	25.8	25.8	29.1	32.3
80°	35.6	35.6	25.8	22.6	19.4	16.1	19.4	19.4	19.4	19.4	22.6
82.5°	22.6	19.4	19.4	16.1	16.1	12.9	12.9	12.9	12.9	12.9	19.4
85°	19.4	12.9	12.9	9.7	12.9	22.6	9.7	12.9	12.9	12.9	9.7
87.5°	6.5	9.7	9.7	9.7	6.5	3.2	6.5	9.7	9.7	16.1	12.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5	6017.5
2.5°	6027.2	6030.5	6030.5	6027.2	6027.2	6020.7	6033.6	6024.0	6027.2	6040.1	6030.5
5°	6033.6	6036.9	6036.9	6033.6	6033.6	6033.6	6036.9	6036.9	6033.6	6030.5	6036.9
7.5°	6046.6	6043.3	6043.3	6036.9	6036.9	6030.5	6036.9	6027.2	6033.6	6027.2	6036.9
10°	6030.5	6033.6	6030.5	6027.2	6027.2	6024.0	6024.0	6014.3	6017.5	6007.8	6014.3
12.5°	6020.7	6017.5	6017.5	6011.0	6004.6	5998.1	5994.9	5985.2	5985.2	5962.6	5972.3
15°	5994.9	5998.1	5988.4	5975.5	5969.1	5952.9	5946.5	5933.5	5920.6	5904.5	5907.7
17.5°	5972.3	5962.6	5949.7	5936.7	5910.9	5898.0	5885.0	5865.7	5859.2	5839.8	5833.4
20°	5904.5	5898.0	5881.9	5859.2	5843.1	5814.0	5801.1	5781.7	5765.5	5746.2	5736.5
22.5°	5817.2	5810.8	5791.4	5768.8	5742.9	5730.1	5717.1	5681.6	5665.4	5646.0	5642.8
25°	5707.5	5697.7	5678.4	5652.5	5639.6	5604.1	5591.1	5565.3	5558.9	5539.4	5536.3
27.5°	5539.4	5526.5	5503.9	5471.6	5449.0	5426.4	5413.5	5394.1	5387.7	5368.2	5365.1
30°	5287.6	5271.4	5226.1	5213.3	5174.5	5151.9	5151.9	5126.0	5129.2	5116.4	5116.4
32.5°	4890.3	4864.4	4828.8	4803.0	4777.2	4764.3	4764.3	4754.6	4761.0	4761.0	4767.5
35°	4363.7	4328.2	4308.8	4292.7	4292.7	4305.6	4344.4	4354.1	4373.5	4389.6	4402.5
37.5°	3688.6	3685.5	3708.1	3727.4	3775.9	3830.8	3898.6	3956.8	4011.6	4050.4	4089.2
40°	2958.7	3039.5	3104.0	3194.5	3268.7	3375.3	3498.1	3598.2	3691.9	3759.8	3830.8
42.5°	2309.4	2412.8	2548.5	2680.9	2813.3	2958.7	3120.2	3259.1	3381.8	3475.5	3549.8
45°	1799.1	1941.2	2106.0	2273.9	2445.1	2626.0	2794.0	2936.1	3065.3	3162.2	3236.5
47.5°	1450.3	1605.3	1792.6	1976.8	2170.6	2361.1	2548.5	2671.2	2777.8	2855.3	2923.2
50°	1198.3	1363.1	1560.1	1770.0	1963.8	2154.4	2315.9	2435.4	2522.7	2590.5	2632.4
52.5°	1001.3	1175.7	1385.7	1595.6	1789.4	1963.8	2109.2	2199.6	2270.7	2319.1	2357.9
55°	826.8	994.9	1191.9	1388.9	1579.5	1744.2	1863.7	1931.6	1986.4	2015.5	2038.1
57.5°	675.1	830.1	1011.0	1191.9	1356.6	1492.3	1586.0	1653.8	1679.6	1702.2	1699.0
60°	529.8	675.1	839.8	994.9	1137.0	1246.7	1314.6	1353.4	1372.7	1382.4	1376.0
62.5°	416.7	549.1	675.1	810.7	914.1	1007.8	1072.4	1072.4	1082.0	1085.3	1095.0
65°	310.0	410.2	520.0	620.2	704.1	765.5	801.1	810.7	823.7	820.4	814.0
67.5°	229.4	303.6	384.3	458.6	516.8	555.5	581.4	604.0	600.8	594.3	591.1
70°	158.3	206.7	277.8	323.0	365.0	403.8	410.2	413.4	416.7	419.9	413.4
72.5°	109.9	145.3	184.1	222.9	248.7	264.8	281.0	284.2	284.2	284.2	281.0
75°	54.9	74.3	109.9	126.0	148.6	155.1	167.9	167.9	177.7	164.7	161.5
77.5°	48.4	58.2	77.5	90.4	100.1	109.9	113.0	122.7	119.5	113.0	116.3
80°	29.1	35.6	48.4	54.9	67.8	71.1	74.3	77.5	74.3	77.5	77.5
82.5°	22.6	25.8	32.3	32.3	42.0	42.0	45.2	45.2	48.4	48.4	48.4
85°	12.9	22.6	19.4	38.7	25.8	25.8	32.3	38.7	32.3	32.3	38.7
87.5°	12.9	12.9	9.7	12.9	12.9	12.9	16.1	19.4	19.4	22.6	19.4
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: P249286

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6017.5	6017.5	6017.5	6017.5
2.5°	6027.2	6033.6	6024.0	6020.7
5°	6036.9	6036.9	6030.5	6030.5
7.5°	6036.9	6036.9	6027.2	6020.7
10°	6011.0	6011.0	6001.4	5994.9
12.5°	5962.6	5962.6	5959.3	5949.7
15°	5901.2	5901.2	5888.3	5878.6
17.5°	5817.2	5823.7	5807.6	5807.6
20°	5726.8	5723.6	5710.7	5704.2
22.5°	5633.2	5626.7	5623.4	5604.1
25°	5533.0	5526.5	5516.8	5507.2
27.5°	5361.8	5358.6	5348.9	5336.0
30°	5100.2	5096.9	5084.0	5084.0
32.5°	4761.0	4757.8	4744.9	4748.1
35°	4408.9	4421.9	4415.4	4402.5
37.5°	4115.0	4124.7	4131.2	4124.7
40°	3869.5	3898.6	3901.9	3908.3
42.5°	3607.9	3646.7	3659.6	3666.0
45°	3294.6	3330.1	3359.2	3352.7
47.5°	2974.8	3000.7	3026.5	3007.1
50°	2668.0	2684.1	2693.8	2693.8
52.5°	2377.3	2377.3	2374.1	2377.3
55°	2044.6	2044.6	2031.7	2038.1
57.5°	1695.7	1702.2	1692.5	1676.4
60°	1372.7	1356.6	1350.1	1340.5
62.5°	1069.2	1069.2	1046.6	1075.6
65°	801.1	791.4	781.6	778.4
67.5°	581.4	578.2	568.5	565.2
70°	410.2	397.3	394.1	387.6
72.5°	274.6	274.6	268.1	268.1
75°	167.9	151.8	148.6	151.8
77.5°	116.3	113.0	113.0	109.9
80°	77.5	74.3	80.8	71.1
82.5°	48.4	51.7	48.4	51.7
85°	32.3	38.7	35.6	35.6
87.5°	19.4	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)