

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 EC8B150927 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 EC8B150927 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: 12830.6 lumens
Efficiency: N/A
Efficacy: 81.0 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

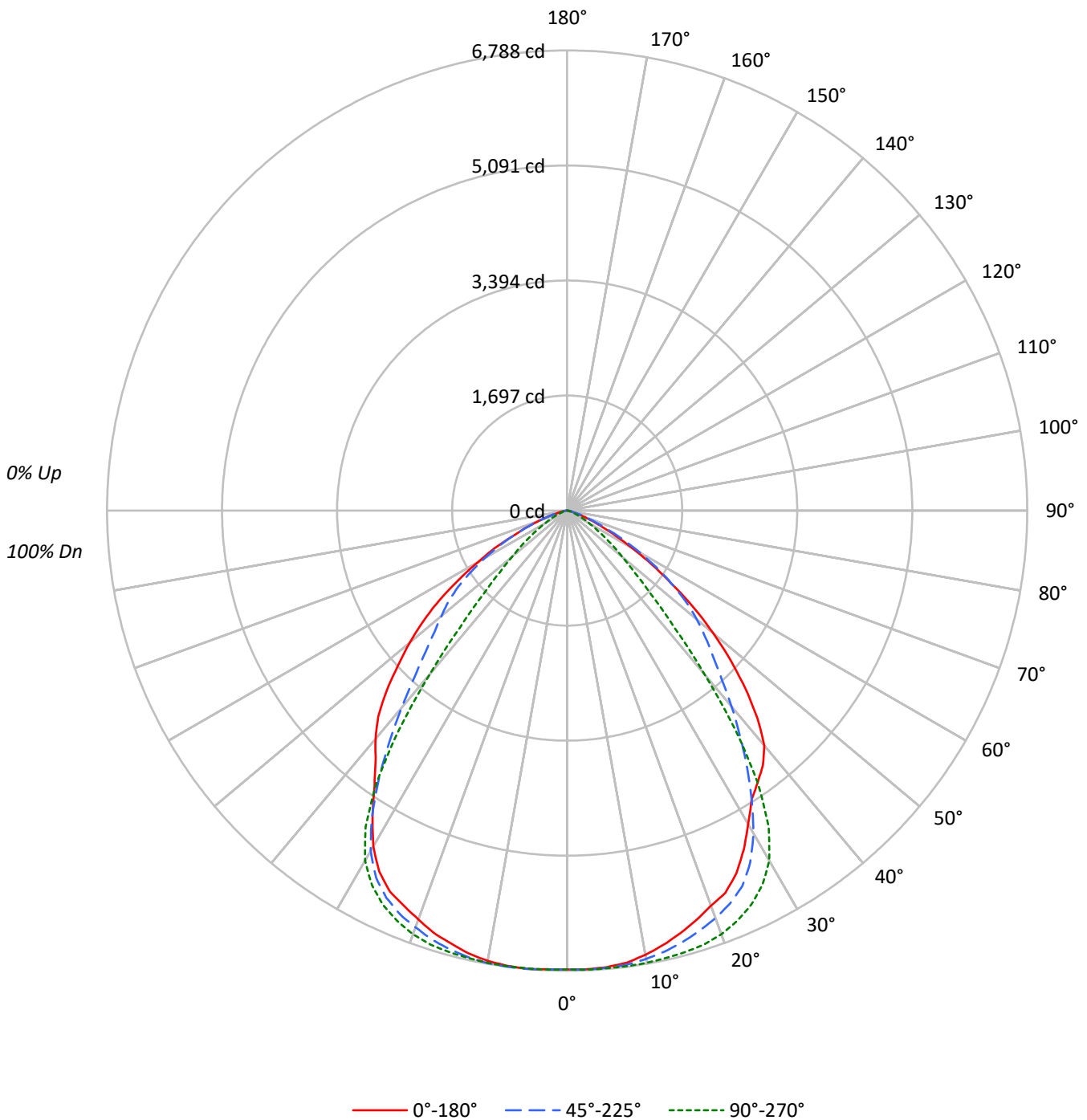
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	646.1	5.0
10°-20°	1876.3	14.6
20°-30°	2847.8	22.2
30°-40°	2991.1	23.3
40°-50°	2242.5	17.5
50°-60°	1438.8	11.2
60°-70°	615.5	4.8
70°-80°	145.4	1.1
80°-90°	27.0	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°	5370.2	41.9
0°-40°	8361.3	65.2
0°-60°	12042.6	93.9
0°-90°	12830.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12830.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6770	6770	6770	6770	6770	
5°	6759	6770	6777	6788	6784	642
15°	6454	6588	6741	6697	6613	1820
25°	5905	6112	6421	6305	6196	2698
35°	4898	4626	4902	4844	4953	3074
45°	3721	3041	1748	2954	3772	2850
55°	1882	1882	650	1962	2293	1707
65°	567	669	207	861	876	605
75°	87	102	29	174	171	127
85°	29	18	14	29	40	31
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°	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7
2.5°	6773.3	6780.6	6777.0	6777.0	6773.3	6777.0	6777.0	6784.3	6784.3	6777.0	6773.3
5°	6758.8	6766.1	6766.1	6758.8	6758.8	6777.0	6766.1	6773.3	6773.3	6769.7	6769.7
7.5°	6726.2	6726.2	6740.7	6729.8	6729.8	6740.7	6737.0	6744.3	6751.6	6755.2	6755.2
10°	6653.4	6660.7	6664.3	6664.3	6668.0	6678.8	6686.1	6700.7	6707.9	6715.2	6718.8
12.5°	6562.6	6573.5	6577.1	6573.5	6584.4	6598.9	6617.1	6635.2	6646.2	6660.7	6671.6
15°	6453.6	6453.6	6460.8	6471.8	6479.0	6500.8	6518.9	6540.8	6569.8	6588.0	6606.2
17.5°	6333.6	6341.0	6351.8	6351.8	6366.4	6402.7	6413.6	6446.4	6479.0	6497.2	6533.6
20°	6202.9	6210.1	6221.0	6228.3	6246.4	6275.5	6297.3	6326.3	6362.8	6395.5	6431.7
22.5°	6101.1	6086.6	6093.8	6101.1	6119.3	6144.8	6170.2	6206.4	6242.8	6275.5	6311.9
25°	5904.8	5908.5	5919.4	5926.6	5948.6	5970.3	5999.4	6042.9	6075.7	6112.0	6152.0
27.5°	5639.6	5643.2	5661.4	5661.4	5679.6	5715.9	5734.0	5770.3	5814.1	5850.3	5897.6
30°	5338.0	5345.2	5345.2	5359.8	5370.6	5388.9	5407.0	5443.4	5465.1	5497.9	5563.3
32.5°	5061.8	5069.0	5065.4	5061.8	5050.9	5047.3	5043.6	5050.9	5058.2	5069.0	5094.4
35°	4898.4	4880.1	4865.6	4840.2	4811.2	4774.7	4742.1	4698.4	4658.5	4625.8	4589.4
37.5°	4742.1	4738.4	4716.6	4680.2	4622.1	4556.7	4480.4	4385.9	4291.4	4189.7	4091.6
40°	4524.1	4513.0	4494.9	4444.1	4378.6	4298.7	4197.0	4080.7	3928.0	3771.8	3611.9
42.5°	4153.4	4157.0	4135.3	4095.2	4033.5	3957.1	3851.8	3724.6	3561.1	3375.8	3168.7
45°	3720.9	3720.9	3713.7	3681.0	3637.4	3575.6	3495.7	3390.3	3230.4	3041.4	2819.8
47.5°	3270.4	3274.0	3263.1	3255.9	3237.6	3197.7	3139.5	3059.7	2947.0	2765.2	2543.6
50°	2812.6	2812.6	2830.7	2827.0	2827.0	2812.6	2787.1	2739.8	2641.7	2496.4	2289.3
52.5°	2354.6	2361.9	2372.8	2387.4	2405.5	2434.6	2405.5	2383.8	2322.0	2209.3	2031.3
55°	1882.2	1889.6	1907.7	1933.1	1955.0	1984.0	1991.2	1991.2	1958.5	1882.2	1747.8
57.5°	1478.9	1468.0	1482.6	1504.4	1533.5	1562.5	1584.3	1609.8	1606.2	1555.2	1446.3
60°	1112.0	1115.6	1126.5	1148.3	1170.1	1195.5	1224.6	1246.4	1257.3	1231.9	1162.8
62.5°	810.3	810.3	824.8	846.7	857.6	893.9	912.0	923.0	933.9	930.2	886.6
65°	566.9	574.1	581.4	592.3	603.2	624.9	635.8	657.7	665.0	668.6	635.8
67.5°	399.7	388.8	396.1	403.3	414.2	428.8	450.6	450.6	461.5	461.5	439.6
70°	254.4	254.4	258.1	268.9	276.2	279.8	287.1	294.3	305.2	301.6	301.6
72.5°	170.8	167.2	170.8	174.5	178.1	188.9	188.9	192.6	199.9	203.5	188.9
75°	87.2	90.9	98.1	94.5	105.4	98.1	101.7	112.6	109.0	101.7	101.7
77.5°	72.7	72.7	72.7	69.1	76.3	76.3	72.7	80.0	76.3	76.3	72.7
80°	50.8	54.4	50.8	47.2	50.8	47.2	47.2	47.2	47.2	47.2	43.5
82.5°	40.1	32.7	36.3	32.7	36.3	36.3	32.7	29.0	29.0	32.7	29.0
85°	29.0	21.8	25.4	25.4	21.8	21.8	21.8	21.8	21.8	18.1	18.1
87.5°	18.1	10.9	10.9	10.9	14.5	14.5	14.5	10.9	14.5	14.5	7.3
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°	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7
2.5°	6780.6	6777.0	6784.3	6780.6	6780.6	6777.0	6780.6	6777.0	6784.3	6769.7	6773.3
5°	6780.6	6773.3	6777.0	6780.6	6784.3	6777.0	6777.0	6777.0	6784.3	6777.0	6780.6
7.5°	6766.1	6762.4	6773.3	6780.6	6777.0	6773.3	6780.6	6777.0	6784.3	6780.6	6787.8
10°	6737.0	6740.7	6747.9	6758.8	6762.4	6766.1	6773.3	6773.3	6784.3	6769.7	6777.0
12.5°	6693.4	6707.9	6726.2	6733.4	6747.9	6747.9	6755.2	6758.8	6766.1	6762.4	6773.3
15°	6638.8	6657.1	6678.8	6697.0	6715.2	6726.2	6737.0	6740.7	6751.6	6740.7	6744.3
17.5°	6573.5	6595.2	6627.9	6649.8	6678.8	6689.8	6704.2	6711.5	6722.4	6715.2	6718.8
20°	6482.6	6508.1	6544.3	6577.1	6595.2	6620.6	6638.8	6649.8	6657.1	6649.8	6653.4
22.5°	6355.5	6391.8	6439.0	6464.5	6500.8	6522.6	6526.2	6551.7	6569.8	6551.7	6559.0
25°	6206.4	6242.8	6279.2	6333.6	6366.4	6391.8	6417.2	6420.9	6439.0	6435.3	6431.7
27.5°	5959.3	6006.6	6068.4	6112.0	6155.6	6195.6	6224.6	6231.8	6250.0	6242.8	6246.4
30°	5621.4	5672.4	5730.5	5799.5	5861.2	5901.2	5937.5	5963.0	5981.2	5970.3	5966.7
32.5°	5141.8	5192.7	5254.4	5323.5	5396.2	5454.2	5497.9	5530.6	5552.4	5545.1	5527.0
35°	4593.2	4607.7	4647.6	4702.2	4763.8	4825.6	4865.6	4902.0	4927.4	4934.6	4934.6
37.5°	4029.9	3982.6	3953.6	3953.6	3989.8	4015.2	4051.7	4073.4	4113.4	4128.0	4138.9
40°	3484.7	3375.8	3274.0	3197.7	3146.8	3143.2	3143.2	3154.0	3190.4	3237.6	3281.3
42.5°	2997.9	2823.4	2667.2	2525.5	2423.7	2365.6	2340.2	2343.8	2372.8	2416.5	2489.1
45°	2609.0	2391.1	2194.8	2024.0	1886.0	1795.0	1751.5	1747.8	1769.6	1820.5	1900.5
47.5°	2307.5	2074.8	1853.2	1657.0	1508.1	1409.9	1359.0	1344.5	1359.0	1406.2	1500.8
50°	2056.7	1816.9	1587.9	1384.4	1224.6	1122.9	1075.6	1057.4	1075.6	1115.6	1210.0
52.5°	1824.1	1577.0	1362.7	1166.4	995.6	908.4	857.6	846.7	857.6	904.7	981.1
55°	1555.2	1344.5	1133.8	937.5	788.5	701.3	661.3	650.5	661.3	705.0	784.9
57.5°	1290.0	1108.2	923.0	744.9	617.7	541.4	505.1	490.5	515.9	545.1	639.6
60°	1042.9	897.5	741.3	585.0	479.7	410.6	381.5	377.9	385.2	421.5	486.9
62.5°	817.6	697.7	574.1	447.0	359.8	330.6	294.3	290.7	297.9	319.7	370.7
65°	588.7	512.4	417.9	327.0	258.1	218.0	203.5	207.1	214.3	228.9	276.2
67.5°	410.6	356.1	290.7	228.9	178.1	159.9	145.4	141.8	145.4	170.8	196.2
70°	276.2	243.4	196.2	174.5	123.6	98.1	101.7	90.9	105.4	105.4	127.1
72.5°	181.7	159.9	130.8	101.7	87.2	69.1	69.1	65.5	72.7	76.3	94.5
75°	94.5	72.7	72.7	50.8	36.3	18.1	32.7	29.0	25.4	29.0	36.3
77.5°	65.5	54.4	50.8	40.1	36.3	29.0	29.0	29.0	29.0	32.7	36.3
80°	40.1	40.1	29.0	25.4	21.8	18.1	21.8	21.8	21.8	21.8	25.4
82.5°	25.4	21.8	21.8	18.1	18.1	14.5	14.5	14.5	14.5	14.5	21.8
85°	21.8	14.5	14.5	10.9	14.5	25.4	10.9	14.5	14.5	14.5	10.9
87.5°	7.3	10.9	10.9	10.9	7.3	3.6	7.3	10.9	10.9	18.1	14.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7	6769.7
2.5°	6780.6	6784.3	6784.3	6780.6	6780.6	6773.3	6787.8	6777.0	6780.6	6795.1	6784.3
5°	6787.8	6791.5	6791.5	6787.8	6787.8	6787.8	6791.5	6791.5	6787.8	6784.3	6791.5
7.5°	6802.4	6798.7	6798.7	6791.5	6791.5	6784.3	6791.5	6780.6	6787.8	6780.6	6791.5
10°	6784.3	6787.8	6784.3	6780.6	6780.6	6777.0	6777.0	6766.1	6769.7	6758.8	6766.1
12.5°	6773.3	6769.7	6769.7	6762.4	6755.2	6747.9	6744.3	6733.4	6733.4	6707.9	6718.8
15°	6744.3	6747.9	6737.0	6722.4	6715.2	6697.0	6689.8	6675.2	6660.7	6642.6	6646.2
17.5°	6718.8	6707.9	6693.4	6678.8	6649.8	6635.2	6620.6	6598.9	6591.6	6569.8	6562.6
20°	6642.6	6635.2	6617.1	6591.6	6573.5	6540.8	6526.2	6504.4	6486.2	6464.5	6453.6
22.5°	6544.3	6537.2	6515.3	6489.9	6460.8	6446.4	6431.7	6391.8	6373.6	6351.8	6348.2
25°	6420.9	6409.9	6388.2	6359.1	6344.6	6304.6	6290.0	6261.0	6253.8	6231.8	6228.3
27.5°	6231.8	6217.3	6191.9	6155.6	6130.1	6104.7	6090.2	6068.4	6061.2	6039.2	6035.7
30°	5948.6	5930.3	5879.4	5865.0	5821.3	5795.9	5795.9	5766.8	5770.3	5756.0	5756.0
32.5°	5501.6	5472.4	5432.4	5403.4	5374.3	5359.8	5359.8	5348.9	5356.1	5356.1	5363.4
35°	4909.2	4869.2	4847.4	4829.3	4829.3	4843.8	4887.4	4898.4	4920.2	4938.3	4952.8
37.5°	4149.7	4146.2	4171.6	4193.3	4247.9	4309.7	4385.9	4451.4	4513.0	4556.7	4600.3
40°	3328.5	3419.4	3492.0	3593.8	3677.3	3797.2	3935.4	4048.0	4153.4	4229.8	4309.7
42.5°	2598.1	2714.4	2867.1	3016.0	3165.0	3328.5	3510.2	3666.5	3804.5	3909.9	3993.5
45°	2024.0	2183.8	2369.2	2558.1	2750.7	2954.2	3143.2	3303.1	3448.5	3557.5	3641.1
47.5°	1631.6	1806.0	2016.7	2223.9	2441.9	2656.2	2867.1	3005.1	3125.0	3212.2	3288.6
50°	1348.1	1533.5	1755.1	1991.2	2209.3	2423.7	2605.4	2739.8	2838.0	2914.3	2961.5
52.5°	1126.5	1322.7	1558.9	1795.0	2013.1	2209.3	2372.8	2474.5	2554.5	2609.0	2652.6
55°	930.2	1119.3	1340.9	1562.5	1776.9	1962.2	2096.7	2173.0	2234.7	2267.4	2292.9
57.5°	759.5	933.9	1137.4	1340.9	1526.2	1678.8	1784.2	1860.5	1889.6	1915.0	1911.4
60°	596.0	759.5	944.8	1119.3	1279.1	1402.5	1478.9	1522.6	1544.3	1555.2	1548.0
62.5°	468.8	617.7	759.5	912.0	1028.4	1133.8	1206.4	1206.4	1217.2	1221.0	1231.9
65°	348.8	461.5	585.0	697.7	792.1	861.2	901.2	912.0	926.7	923.0	915.8
67.5°	258.1	341.6	432.3	515.9	581.4	624.9	654.1	679.5	675.9	668.6	665.0
70°	178.1	232.5	312.5	363.4	410.6	454.3	461.5	465.1	468.8	472.4	465.1
72.5°	123.6	163.5	207.1	250.8	279.8	297.9	316.1	319.7	319.7	319.7	316.1
75°	61.8	83.6	123.6	141.8	167.2	174.5	188.9	188.9	199.9	185.3	181.7
77.5°	54.4	65.5	87.2	101.7	112.6	123.6	127.1	138.0	134.4	127.1	130.8
80°	32.7	40.1	54.4	61.8	76.3	80.0	83.6	87.2	83.6	87.2	87.2
82.5°	25.4	29.0	36.3	36.3	47.2	47.2	50.8	50.8	54.4	54.4	54.4
85°	14.5	25.4	21.8	43.5	29.0	29.0	36.3	43.5	36.3	36.3	43.5
87.5°	14.5	14.5	10.9	14.5	14.5	14.5	18.1	21.8	21.8	25.4	21.8
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 EC8B150927 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6769.7	6769.7	6769.7	6769.7
2.5°	6780.6	6787.8	6777.0	6773.3
5°	6791.5	6791.5	6784.3	6784.3
7.5°	6791.5	6791.5	6780.6	6773.3
10°	6762.4	6762.4	6751.6	6744.3
12.5°	6707.9	6707.9	6704.2	6693.4
15°	6638.8	6638.8	6624.3	6613.4
17.5°	6544.3	6551.7	6533.6	6533.6
20°	6442.7	6439.0	6424.5	6417.2
22.5°	6337.3	6330.0	6326.3	6304.6
25°	6224.6	6217.3	6206.4	6195.6
27.5°	6032.0	6028.4	6017.5	6003.0
30°	5737.7	5734.0	5719.5	5719.5
32.5°	5356.1	5352.5	5338.0	5341.6
35°	4960.0	4974.6	4967.3	4952.8
37.5°	4629.4	4640.3	4647.6	4640.3
40°	4353.2	4385.9	4389.6	4396.8
42.5°	4058.9	4102.5	4117.0	4124.2
45°	3706.4	3746.4	3779.1	3771.8
47.5°	3346.6	3375.8	3404.8	3383.0
50°	3001.5	3019.6	3030.5	3030.5
52.5°	2674.5	2674.5	2670.9	2674.5
55°	2300.2	2300.2	2285.7	2292.9
57.5°	1907.7	1915.0	1904.1	1886.0
60°	1544.3	1526.2	1518.9	1508.1
62.5°	1202.9	1202.9	1177.4	1210.0
65°	901.2	890.3	879.3	875.7
67.5°	654.1	650.5	639.6	635.8
70°	461.5	447.0	443.4	436.0
72.5°	308.9	308.9	301.6	301.6
75°	188.9	170.8	167.2	170.8
77.5°	130.8	127.1	127.1	123.6
80°	87.2	83.6	90.9	80.0
82.5°	54.4	58.2	54.4	58.2
85°	36.3	43.5	40.1	40.1
87.5°	21.8	21.8	21.8	21.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)