

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: P249178

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249178
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 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12898.1 lumens
Efficiency: N/A
Efficacy: 81.4 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

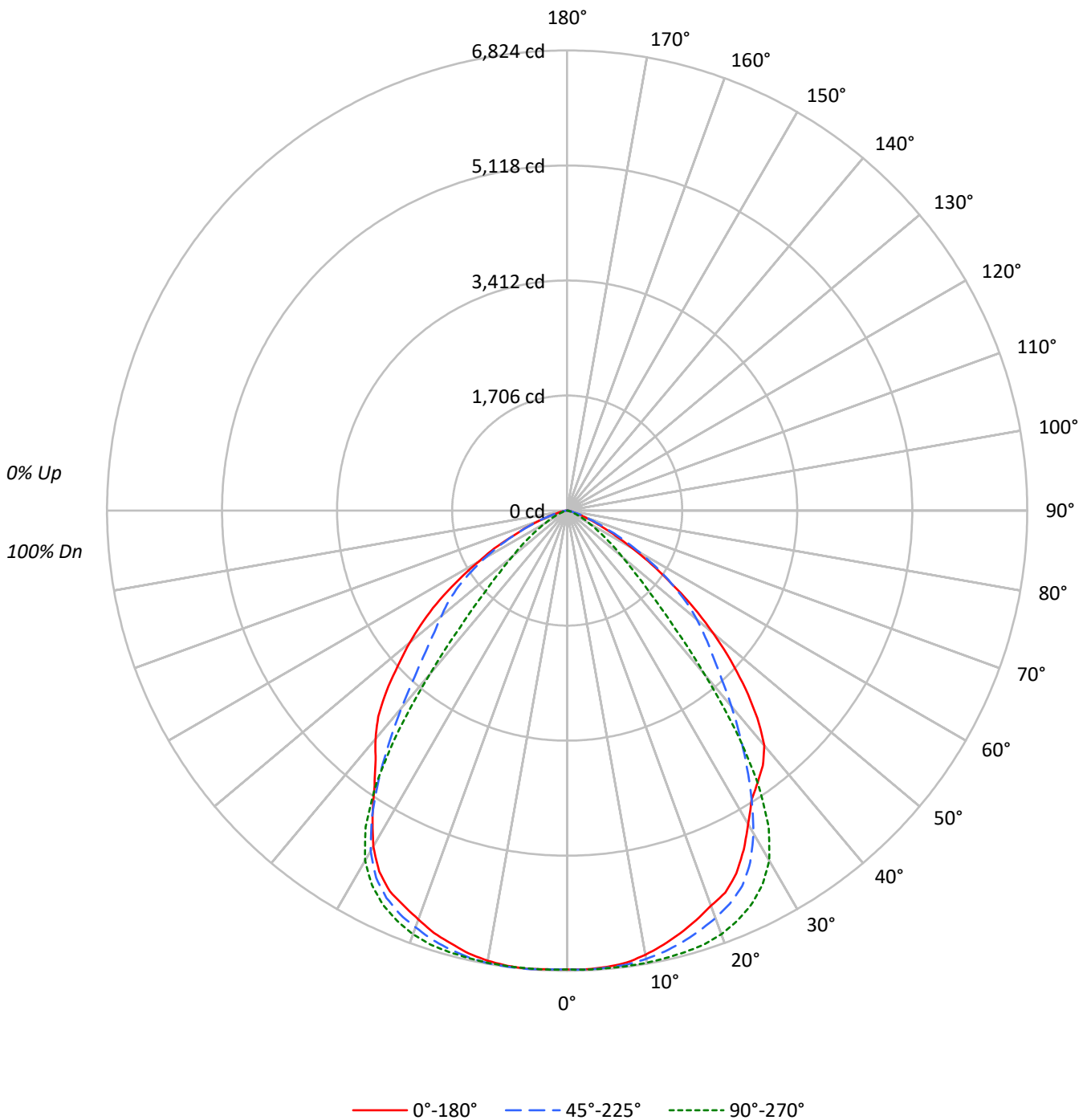
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	649.5	5.0
10°-20°	1886.2	14.6
20°-30°	2862.8	22.2
30°-40°	3006.8	23.3
40°-50°	2254.3	17.5
50°-60°	1446.4	11.2
60°-70°	618.8	4.8
70°-80°	146.2	1.1
80°-90°	27.2	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°	5398.4	41.9
0°-40°	8405.3	65.2
0°-60°	12106.0	93.9
0°-90°	12898.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12898.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6805	6805	6805	6805	6805	
5°	6794	6805	6813	6824	6820	645
15°	6487	6623	6776	6732	6648	1830
25°	5936	6144	6455	6338	6228	2712
35°	4924	4650	4928	4869	4979	3090
45°	3740	3057	1757	2970	3792	2865
55°	1892	1892	654	1973	2305	1716
65°	570	672	208	866	880	608
75°	88	102	29	175	172	128
85°	29	18	15	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°	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4
2.5°	6809.0	6816.3	6812.7	6812.7	6809.0	6812.7	6812.7	6820.0	6820.0	6812.7	6809.0
5°	6794.3	6801.6	6801.6	6794.3	6794.3	6812.7	6801.6	6809.0	6809.0	6805.4	6805.4
7.5°	6761.5	6761.5	6776.1	6765.2	6765.2	6776.1	6772.4	6779.7	6787.1	6790.7	6790.7
10°	6688.4	6695.8	6699.4	6699.4	6703.1	6714.0	6721.3	6735.9	6743.1	6750.6	6754.2
12.5°	6597.1	6608.0	6611.7	6608.0	6619.0	6633.6	6651.9	6670.1	6681.2	6695.8	6706.7
15°	6487.4	6487.4	6494.8	6505.8	6513.1	6535.0	6553.2	6575.2	6604.4	6622.6	6641.0
17.5°	6366.9	6374.4	6385.3	6385.3	6399.9	6436.3	6447.4	6480.2	6513.1	6531.3	6567.9
20°	6235.5	6242.7	6253.8	6261.1	6279.3	6308.6	6330.4	6359.6	6396.2	6429.2	6465.6
22.5°	6133.2	6118.7	6125.8	6133.2	6151.5	6177.0	6202.6	6239.1	6275.6	6308.6	6345.1
25°	5936.0	5939.6	5950.6	5957.8	5979.8	6001.7	6030.9	6074.7	6107.6	6144.2	6184.2
27.5°	5669.3	5672.9	5691.2	5691.2	5709.4	5745.9	5764.2	5800.7	5844.6	5881.2	5928.6
30°	5366.1	5373.3	5373.3	5388.0	5398.9	5417.2	5435.4	5472.0	5493.9	5526.8	5592.6
32.5°	5088.5	5095.7	5092.1	5088.5	5077.5	5073.9	5070.2	5077.5	5084.8	5095.7	5121.3
35°	4924.1	4905.8	4891.3	4865.6	4836.5	4799.9	4767.0	4723.2	4682.9	4650.1	4613.6
37.5°	4767.0	4763.4	4741.4	4704.9	4646.5	4580.8	4504.0	4409.0	4314.0	4211.8	4113.2
40°	4547.8	4536.8	4518.6	4467.5	4401.7	4321.3	4219.1	4102.2	3948.8	3791.7	3630.9
42.5°	4175.2	4178.9	4157.0	4116.7	4054.7	3978.0	3872.0	3744.2	3579.9	3393.4	3185.3
45°	3740.5	3740.5	3733.2	3700.4	3656.6	3594.4	3514.0	3408.2	3247.4	3057.4	2834.5
47.5°	3287.6	3291.2	3280.3	3273.0	3254.7	3214.6	3156.1	3075.8	2962.5	2779.8	2557.0
50°	2827.4	2827.4	2845.6	2842.0	2842.0	2827.4	2801.8	2754.2	2655.7	2509.5	2301.3
52.5°	2367.0	2374.4	2385.3	2400.0	2418.2	2447.4	2418.2	2396.2	2334.2	2220.9	2042.0
55°	1892.1	1899.4	1917.8	1943.3	1965.3	1994.5	2001.7	2001.7	1968.9	1892.1	1757.0
57.5°	1486.8	1475.8	1490.4	1512.3	1541.6	1570.7	1592.7	1618.2	1614.6	1563.4	1453.8
60°	1117.8	1121.4	1132.3	1154.4	1176.2	1201.8	1231.0	1252.9	1263.9	1238.4	1168.9
62.5°	814.6	814.6	829.1	851.1	862.1	898.6	916.9	927.9	938.8	935.1	891.3
65°	569.9	577.1	584.4	595.5	606.4	628.2	639.2	661.2	668.5	672.2	639.2
67.5°	401.8	390.8	398.1	405.4	416.5	431.1	452.9	452.9	463.8	463.8	442.0
70°	255.7	255.7	259.4	270.3	277.7	281.2	288.6	295.9	306.8	303.2	303.2
72.5°	171.7	168.1	171.7	175.4	179.0	189.9	189.9	193.6	200.9	204.6	189.9
75°	87.6	91.4	98.6	95.1	105.9	98.6	102.3	113.3	109.6	102.3	102.3
77.5°	73.0	73.0	73.0	69.4	76.7	76.7	73.0	80.3	76.7	76.7	73.0
80°	51.1	54.8	51.1	47.5	51.1	47.5	47.5	47.5	47.5	47.5	43.8
82.5°	40.3	32.8	36.6	32.8	36.6	36.6	32.8	29.2	29.2	32.8	29.2
85°	29.2	21.9	25.5	25.5	21.9	21.9	21.9	21.9	21.9	18.2	18.2
87.5°	18.2	11.0	11.0	11.0	14.6	14.6	14.6	11.0	14.6	14.6	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°	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4
2.5°	6816.3	6812.7	6820.0	6816.3	6816.3	6812.7	6816.3	6812.7	6820.0	6805.4	6809.0
5°	6816.3	6809.0	6812.7	6816.3	6820.0	6812.7	6812.7	6812.7	6820.0	6812.7	6816.3
7.5°	6801.6	6797.9	6809.0	6816.3	6812.7	6809.0	6816.3	6812.7	6820.0	6816.3	6823.6
10°	6772.4	6776.1	6783.4	6794.3	6797.9	6801.6	6809.0	6809.0	6820.0	6805.4	6812.7
12.5°	6728.6	6743.1	6761.5	6768.8	6783.4	6783.4	6790.7	6794.3	6801.6	6797.9	6809.0
15°	6673.8	6692.1	6714.0	6732.2	6750.6	6761.5	6772.4	6776.1	6787.1	6776.1	6779.7
17.5°	6608.0	6630.0	6662.8	6684.8	6714.0	6724.9	6739.5	6746.8	6757.9	6750.6	6754.2
20°	6516.7	6542.3	6578.8	6611.7	6630.0	6655.5	6673.8	6684.8	6692.1	6684.8	6688.4
22.5°	6388.9	6425.4	6472.9	6498.4	6535.0	6557.0	6560.6	6586.2	6604.4	6586.2	6593.5
25°	6239.1	6275.6	6312.2	6366.9	6399.9	6425.4	6451.0	6454.7	6472.9	6469.2	6465.6
27.5°	5990.7	6038.2	6100.3	6144.2	6188.0	6228.2	6257.4	6264.7	6283.0	6275.6	6279.3
30°	5651.0	5702.2	5760.7	5830.0	5892.1	5932.2	5968.8	5994.3	6012.6	6001.7	5998.0
32.5°	5168.8	5220.0	5282.1	5351.4	5424.5	5482.9	5526.8	5559.8	5581.6	5574.3	5556.0
35°	4617.2	4631.8	4672.1	4726.9	4788.9	4851.0	4891.3	4927.7	4953.3	4960.6	4960.6
37.5°	4051.0	4003.6	3974.4	3974.4	4010.8	4036.4	4073.0	4094.9	4135.0	4149.7	4160.6
40°	3503.0	3393.4	3291.2	3214.6	3163.4	3159.8	3159.8	3170.7	3207.3	3254.7	3298.6
42.5°	3013.6	2838.3	2681.2	2538.8	2436.5	2378.0	2352.5	2356.2	2385.3	2429.2	2502.2
45°	2622.7	2403.6	2206.4	2034.7	1895.8	1804.5	1760.7	1757.0	1779.0	1830.0	1910.5
47.5°	2319.6	2085.8	1863.0	1665.7	1515.9	1417.3	1366.2	1351.6	1366.2	1413.7	1508.6
50°	2067.5	1826.4	1596.4	1391.7	1231.0	1128.8	1081.2	1063.0	1081.2	1121.4	1216.4
52.5°	1833.8	1585.4	1369.8	1172.6	1000.9	913.2	862.1	851.1	862.1	909.6	986.3
55°	1563.4	1351.6	1139.7	942.4	792.7	705.0	664.8	653.8	664.8	708.6	789.1
57.5°	1296.8	1114.1	927.9	748.8	621.0	544.3	507.7	493.1	518.6	547.9	642.9
60°	1048.4	902.2	745.2	588.2	482.2	412.8	383.5	379.9	387.2	423.8	489.5
62.5°	821.9	701.3	577.1	449.3	361.7	332.4	295.9	292.3	299.5	321.4	372.6
65°	591.8	515.1	420.1	328.7	259.4	219.2	204.6	208.2	215.6	230.2	277.7
67.5°	412.8	358.0	292.3	230.2	179.0	160.6	146.1	142.4	146.1	171.7	197.2
70°	277.7	244.7	197.2	175.4	124.2	98.6	102.3	91.4	105.9	105.9	127.8
72.5°	182.6	160.6	131.5	102.3	87.6	69.4	69.4	65.8	73.0	76.7	95.1
75°	95.1	73.0	73.0	51.1	36.6	18.2	32.8	29.2	25.5	29.2	36.6
77.5°	65.8	54.8	51.1	40.3	36.6	29.2	29.2	29.2	29.2	32.8	36.6
80°	40.3	40.3	29.2	25.5	21.9	18.2	21.9	21.9	21.9	21.9	25.5
82.5°	25.5	21.9	21.9	18.2	18.2	14.6	14.6	14.6	14.6	14.6	21.9
85°	21.9	14.6	14.6	11.0	14.6	25.5	11.0	14.6	14.6	14.6	11.0
87.5°	7.3	11.0	11.0	11.0	7.3	3.7	7.3	11.0	11.0	18.2	14.6
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°	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4	6805.4
2.5°	6816.3	6820.0	6820.0	6816.3	6816.3	6809.0	6823.6	6812.7	6816.3	6830.9	6820.0
5°	6823.6	6827.2	6827.2	6823.6	6823.6	6823.6	6827.2	6827.2	6823.6	6820.0	6827.2
7.5°	6838.2	6834.5	6834.5	6827.2	6827.2	6820.0	6827.2	6816.3	6823.6	6816.3	6827.2
10°	6820.0	6823.6	6820.0	6816.3	6816.3	6812.7	6812.7	6801.6	6805.4	6794.3	6801.6
12.5°	6809.0	6805.4	6805.4	6797.9	6790.7	6783.4	6779.7	6768.8	6768.8	6743.1	6754.2
15°	6779.7	6783.4	6772.4	6757.9	6750.6	6732.2	6724.9	6710.3	6695.8	6677.4	6681.2
17.5°	6754.2	6743.1	6728.6	6714.0	6684.8	6670.1	6655.5	6633.6	6626.2	6604.4	6597.1
20°	6677.4	6670.1	6651.9	6626.2	6608.0	6575.2	6560.6	6538.7	6520.4	6498.4	6487.4
22.5°	6578.8	6571.5	6549.6	6524.0	6494.8	6480.2	6465.6	6425.4	6407.1	6385.3	6381.6
25°	6454.7	6443.7	6421.7	6392.6	6377.8	6337.8	6323.1	6293.9	6286.6	6264.7	6261.1
27.5°	6264.7	6250.0	6224.5	6188.0	6162.4	6136.9	6122.2	6100.3	6093.0	6071.1	6067.5
30°	5979.8	5961.5	5910.3	5895.8	5851.9	5826.4	5826.4	5797.1	5800.7	5786.2	5786.2
32.5°	5530.5	5501.2	5461.0	5431.8	5402.6	5388.0	5388.0	5377.0	5384.4	5384.4	5391.7
35°	4935.0	4894.9	4872.9	4854.7	4854.7	4869.2	4913.1	4924.1	4946.1	4964.3	4978.9
37.5°	4171.5	4168.0	4193.6	4215.4	4270.3	4332.4	4409.0	4474.8	4536.8	4580.8	4624.5
40°	3346.0	3437.3	3510.4	3612.7	3696.6	3817.2	3956.1	4069.2	4175.2	4251.9	4332.4
42.5°	2611.8	2728.7	2882.1	3031.9	3181.6	3346.0	3528.7	3685.7	3824.6	3930.5	4014.4
45°	2034.7	2195.3	2381.7	2571.6	2765.2	2969.8	3159.8	3320.4	3466.6	3576.2	3660.2
47.5°	1640.1	1815.5	2027.4	2235.6	2454.8	2670.2	2882.1	3021.0	3141.5	3229.1	3305.9
50°	1355.2	1541.6	1764.3	2001.7	2220.9	2436.5	2619.1	2754.2	2852.9	2929.6	2977.1
52.5°	1132.3	1329.6	1567.1	1804.5	2023.6	2220.9	2385.3	2487.6	2567.9	2622.7	2666.6
55°	935.1	1125.1	1348.0	1570.7	1786.3	1972.6	2107.7	2184.4	2246.5	2279.4	2304.9
57.5°	763.5	938.8	1143.3	1348.0	1534.2	1687.7	1793.6	1870.3	1899.4	1925.1	1921.4
60°	599.1	763.5	949.7	1125.1	1285.9	1410.0	1486.8	1530.6	1552.4	1563.4	1556.1
62.5°	471.3	621.0	763.5	916.9	1033.8	1139.7	1212.8	1212.8	1223.7	1227.4	1238.4
65°	350.7	463.8	588.2	701.3	796.3	865.7	906.0	916.9	931.5	927.9	920.5
67.5°	259.4	343.3	434.7	518.6	584.4	628.2	657.4	683.1	679.5	672.2	668.5
70°	179.0	233.8	314.2	365.3	412.8	456.6	463.8	467.6	471.3	474.9	467.6
72.5°	124.2	164.4	208.2	252.0	281.2	299.5	317.8	321.4	321.4	321.4	317.8
75°	62.1	84.0	124.2	142.4	168.1	175.4	189.9	189.9	200.9	186.3	182.6
77.5°	54.8	65.8	87.6	102.3	113.3	124.2	127.8	138.8	135.1	127.8	131.5
80°	32.8	40.3	54.8	62.1	76.7	80.3	84.0	87.6	84.0	87.6	87.6
82.5°	25.5	29.2	36.6	36.6	47.5	47.5	51.1	51.1	54.8	54.8	54.8
85°	14.6	25.5	21.9	43.8	29.2	29.2	36.6	43.8	36.6	36.6	43.8
87.5°	14.6	14.6	11.0	14.6	14.6	14.6	18.2	21.9	21.9	25.5	21.9
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: P249178

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6805.4	6805.4	6805.4	6805.4
2.5°	6816.3	6823.6	6812.7	6809.0
5°	6827.2	6827.2	6820.0	6820.0
7.5°	6827.2	6827.2	6816.3	6809.0
10°	6797.9	6797.9	6787.1	6779.7
12.5°	6743.1	6743.1	6739.5	6728.6
15°	6673.8	6673.8	6659.2	6648.3
17.5°	6578.8	6586.2	6567.9	6567.9
20°	6476.5	6472.9	6458.3	6451.0
22.5°	6370.7	6363.3	6359.6	6337.8
25°	6257.4	6250.0	6239.1	6228.2
27.5°	6063.9	6060.2	6049.1	6034.6
30°	5767.9	5764.2	5749.7	5749.7
32.5°	5384.4	5380.7	5366.1	5369.7
35°	4986.1	5000.8	4993.5	4978.9
37.5°	4653.8	4664.7	4672.1	4664.7
40°	4376.1	4409.0	4412.7	4420.0
42.5°	4080.3	4124.1	4138.8	4146.0
45°	3725.9	3766.2	3799.0	3791.7
47.5°	3364.3	3393.4	3422.7	3400.9
50°	3017.2	3035.5	3046.5	3046.5
52.5°	2688.5	2688.5	2684.9	2688.5
55°	2312.2	2312.2	2297.7	2304.9
57.5°	1917.8	1925.1	1914.1	1895.8
60°	1552.4	1534.2	1526.9	1515.9
62.5°	1209.1	1209.1	1183.6	1216.4
65°	906.0	894.9	884.0	880.3
67.5°	657.4	653.8	642.9	639.2
70°	463.8	449.3	445.6	438.3
72.5°	310.5	310.5	303.2	303.2
75°	189.9	171.7	168.1	171.7
77.5°	131.5	127.8	127.8	124.2
80°	87.6	84.0	91.4	80.3
82.5°	54.8	58.5	54.8	58.5
85°	36.6	43.8	40.3	40.3
87.5°	21.9	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)