

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: P248764

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150827 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14110.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

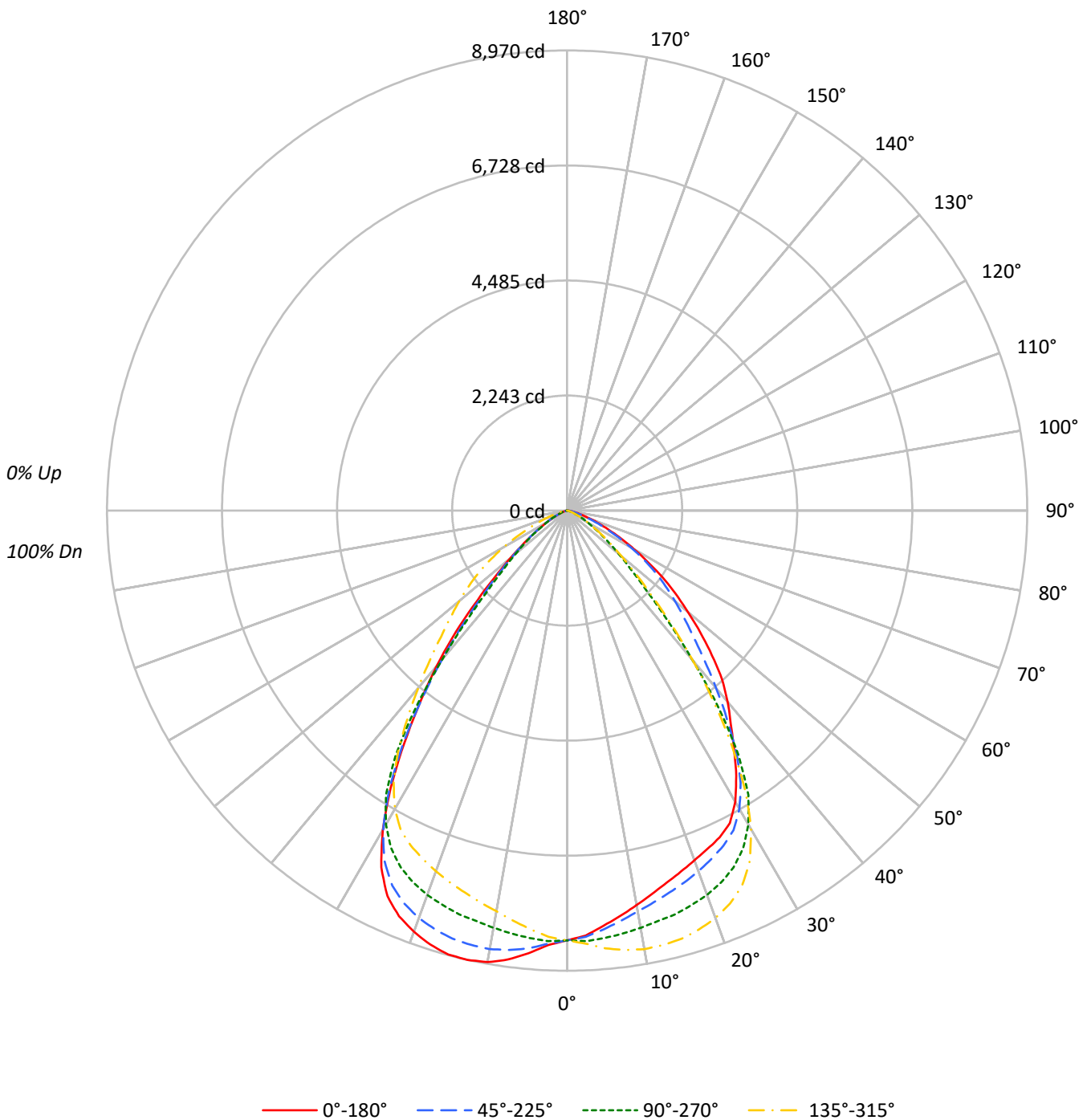
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	258307	258307	258307	258307
5°	251443	258913	268155	258913
10°	244487	258575	279832	258575
15°	239603	260108	285960	260108
20°	237973	261597	286694	261597
25°	239224	261070	282087	261070
30°	233309	251515	256034	251515
35°	213405	219405	208169	219405
40°	195928	152623	159381	152623
45°	174088	93110	107732	93110
50°	147353	62197	69071	62197
55°	122044	42439	44859	42439
60°	93082	28252	28499	28252
65°	65953	17606	16118	17606
70°	47568	11793	10702	11793
75°	30203	5862	4873	5862
80°	21079	4368	3623	4368
85°	18823	0	1415	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	797.3	5.7
10°-20°	2308.8	16.4
20°-30°	3496.1	24.8
30°-40°	3503.9	24.8
40°-50°	2200.3	15.6
50°-60°	1172.5	8.3
60°-70°	482.2	3.4
70°-80°	127.4	0.9
80°-90°	21.5	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°	6602.2	46.8
0°-40°	10106.1	71.6
0°-60°	13478.9	95.5
0°-90°	14110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8377	8377	8377	8377	8377	
5°	8123	8364	8663	8364	8123	766
15°	7505	8148	8958	8148	7505	2123
25°	7031	7673	8291	7673	7031	3225
35°	5669	5828	5530	5828	5669	3552
45°	3992	2135	2470	2135	3992	3070
55°	2270	789	834	789	2270	2024
65°	904	241	221	241	904	938
75°	254	49	41	49	254	287
85°	53	0	4	0	53	58
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°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8290.8	8282.5	8278.5	8286.8	8290.8	8307.1	8303.1	8311.2	8311.2	8315.4	8323.5
5°	8123.1	8118.9	8123.1	8123.1	8139.4	8155.8	8151.7	8164.0	8172.1	8192.6	8200.7
7.5°	7967.7	7967.7	7963.5	7979.8	7988.1	8012.7	8008.5	8029.0	8041.3	8061.7	8090.3
10°	7808.1	7808.1	7812.2	7824.5	7828.7	7865.4	7865.4	7894.0	7910.3	7930.9	7967.7
12.5°	7652.7	7652.7	7677.3	7669.1	7685.4	7714.0	7726.3	7754.9	7779.5	7820.4	7857.3
15°	7505.4	7505.4	7513.7	7534.0	7546.3	7583.2	7603.6	7636.4	7665.0	7705.9	7759.1
17.5°	7378.7	7374.6	7378.7	7403.2	7427.8	7460.5	7476.8	7517.7	7546.3	7599.5	7648.7
20°	7251.9	7260.1	7260.1	7280.5	7296.8	7337.7	7354.1	7399.2	7431.9	7480.8	7538.3
22.5°	7141.4	7137.4	7137.4	7166.0	7178.3	7215.0	7231.3	7272.3	7309.1	7350.0	7403.2
25°	7031.0	7022.8	7039.2	7043.3	7051.4	7092.3	7104.6	7133.2	7170.1	7206.9	7260.1
27.5°	6867.4	6859.3	6863.3	6879.6	6891.9	6924.6	6932.8	6961.5	6990.1	7022.8	7067.9
30°	6552.4	6544.3	6540.2	6568.9	6581.2	6605.6	6617.9	6667.0	6675.1	6712.0	6744.6
32.5°	6135.2	6131.1	6139.4	6163.8	6176.1	6208.9	6225.3	6253.9	6274.2	6294.8	6327.4
35°	5669.0	5660.8	5669.0	5693.6	5693.6	5722.2	5734.5	5746.6	5742.6	5746.6	5738.5
37.5°	5235.5	5231.3	5235.5	5247.6	5235.5	5247.6	5235.5	5210.9	5166.0	5116.8	5067.6
40°	4867.3	4871.3	4846.9	4863.3	4818.1	4810.1	4765.1	4703.7	4613.8	4515.6	4376.6
42.5°	4474.7	4462.4	4446.1	4454.2	4417.5	4388.7	4315.1	4237.5	4122.8	3959.4	3791.5
45°	3992.0	3988.0	3979.7	3975.7	3951.1	3922.5	3861.0	3771.1	3644.4	3476.7	3276.2
47.5°	3521.6	3509.4	3509.4	3513.4	3484.8	3480.7	3431.6	3354.0	3243.5	3079.9	2871.3
50°	3071.6	3067.6	3075.8	3092.2	3071.6	3063.6	3030.9	2977.7	2879.5	2740.5	2544.0
52.5°	2666.7	2662.7	2670.9	2691.3	2683.1	2691.3	2658.7	2617.7	2552.3	2417.2	2245.5
55°	2270.1	2270.1	2270.1	2294.5	2294.5	2294.5	2278.2	2253.8	2192.3	2094.2	1934.7
57.5°	1857.0	1861.0	1885.6	1889.6	1885.6	1893.8	1889.6	1865.0	1824.3	1754.8	1632.0
60°	1509.3	1509.3	1521.6	1533.9	1529.7	1533.9	1533.9	1521.6	1480.7	1423.4	1325.3
62.5°	1194.3	1206.6	1198.3	1206.6	1222.9	1206.6	1198.3	1190.3	1161.6	1124.8	1043.0
65°	903.9	912.1	912.1	916.2	907.9	912.1	895.8	883.5	867.2	826.3	773.1
67.5°	687.2	687.2	687.2	687.2	683.0	679.0	674.9	662.6	634.0	617.7	560.3
70°	527.6	503.0	503.0	503.0	503.0	507.3	495.0	478.6	470.4	441.8	400.9
72.5°	351.7	359.9	351.7	351.7	343.6	347.7	331.3	323.1	315.0	298.7	274.1
75°	253.5	233.2	241.3	245.5	233.2	241.3	224.9	208.6	208.6	196.3	184.0
77.5°	163.6	159.6	163.6	167.7	163.6	159.6	151.4	143.1	143.1	139.1	126.8
80°	118.7	114.5	114.5	114.5	110.4	114.5	106.4	106.4	98.2	94.1	85.9
82.5°	77.8	77.8	73.6	77.8	73.6	77.8	65.5	65.5	65.5	61.3	53.2
85°	53.2	45.0	45.0	49.2	40.9	49.2	45.0	40.9	36.9	36.9	32.7
87.5°	24.6	28.6	24.6	28.6	24.6	24.6	28.6	24.6	24.6	16.3	16.3
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°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8335.7	8339.8	8339.8	8356.3	8364.4	8368.4	8368.4	8401.2	8389.0	8397.2	8405.3
5°	8217.2	8241.6	8249.9	8249.9	8294.8	8311.2	8327.5	8364.4	8368.4	8393.0	8421.6
7.5°	8102.6	8131.2	8147.7	8184.4	8213.0	8241.6	8290.8	8315.4	8339.8	8372.6	8409.3
10°	7992.1	8025.0	8057.6	8086.2	8131.2	8168.1	8200.7	8258.0	8286.8	8331.7	8380.7
12.5°	7885.9	7930.9	7959.5	8008.5	8057.6	8090.3	8139.4	8192.6	8237.6	8282.5	8339.8
15°	7791.8	7845.0	7877.7	7930.9	7984.1	8029.0	8082.2	8147.7	8180.4	8233.6	8286.8
17.5°	7689.4	7746.8	7787.8	7836.7	7902.2	7951.2	7996.3	8061.7	8102.6	8159.8	8221.3
20°	7583.2	7640.4	7689.4	7738.6	7804.1	7853.1	7906.3	7971.8	8016.7	8074.0	8123.1
22.5°	7456.4	7509.6	7562.7	7619.9	7685.4	7726.3	7787.8	7845.0	7894.0	7947.2	7996.3
25°	7292.8	7358.3	7399.2	7452.2	7505.4	7550.4	7615.9	7673.1	7714.0	7763.2	7808.1
27.5°	7100.5	7149.7	7182.4	7227.3	7280.5	7321.4	7370.4	7427.8	7468.7	7513.7	7546.3
30°	6773.2	6818.4	6847.0	6879.6	6932.8	6969.7	7010.6	7063.7	7092.3	7125.1	7153.7
32.5°	6343.8	6380.6	6397.0	6421.6	6458.4	6495.1	6528.0	6572.9	6585.2	6605.6	6605.6
35°	5722.2	5730.3	5726.3	5734.5	5750.8	5771.2	5799.8	5828.4	5844.8	5844.8	5832.7
37.5°	4994.1	4945.1	4891.9	4851.0	4838.7	4830.4	4846.9	4859.1	4875.6	4883.6	4863.3
40°	4237.5	4127.0	4008.4	3902.0	3828.4	3795.7	3783.4	3791.5	3791.5	3820.1	3820.1
42.5°	3587.1	3415.2	3239.5	3079.9	2973.5	2891.8	2855.0	2855.0	2859.0	2879.5	2891.8
45°	3047.2	2830.4	2625.8	2450.1	2302.8	2196.4	2147.4	2135.1	2131.0	2139.1	2167.7
47.5°	2634.1	2409.2	2196.4	1979.7	1824.3	1717.9	1672.9	1656.4	1640.1	1656.4	1660.7
50°	2311.0	2077.8	1852.9	1636.1	1472.4	1378.3	1321.1	1296.5	1292.5	1292.5	1300.7
52.5°	2016.4	1799.7	1574.8	1353.9	1182.0	1092.1	1038.9	1026.6	1010.3	1026.6	1026.6
55°	1738.3	1521.6	1300.7	1092.1	948.8	854.9	805.7	789.4	781.2	793.5	793.5
57.5°	1435.7	1251.5	1047.2	858.9	715.8	650.4	613.5	593.1	588.9	597.2	588.9
60°	1178.0	1022.6	846.7	674.9	564.5	495.0	466.3	458.1	449.8	458.1	458.1
62.5°	932.5	801.7	658.4	527.6	433.5	384.5	351.7	351.7	347.7	347.7	351.7
65°	691.3	588.9	486.7	376.3	302.7	265.8	241.3	241.3	237.2	241.3	237.2
67.5°	503.0	433.5	351.7	274.1	216.8	196.3	180.0	167.7	175.9	167.7	163.6
70°	368.2	310.8	253.5	208.6	167.7	147.3	135.0	130.8	122.7	122.7	122.7
72.5°	245.5	208.6	171.7	135.0	110.4	89.9	85.9	77.8	69.5	73.6	81.8
75°	163.6	139.1	122.7	98.2	73.6	73.6	49.2	49.2	40.9	49.2	36.9
77.5°	114.5	94.1	73.6	61.3	49.2	45.0	32.7	32.7	28.6	28.6	28.6
80°	81.8	69.5	53.2	45.0	32.7	32.7	28.6	24.6	20.4	20.4	24.6
82.5°	49.2	36.9	36.9	32.7	20.4	16.3	12.3	16.3	8.2	8.2	8.2
85°	28.6	24.6	20.4	12.3	8.2	8.2	4.0	0.0	4.0	4.0	0.0
87.5°	16.3	8.2	8.2	4.0	0.0	4.0	4.0	0.0	0.0	0.0	8.2
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°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8425.8	8421.6	8429.9	8429.9	8454.4	8450.2	8462.5	8462.5	8454.4	8458.5	8474.8
5°	8454.4	8466.7	8491.1	8511.7	8548.4	8564.9	8585.3	8605.8	8609.8	8622.1	8634.4
7.5°	8454.4	8495.4	8524.0	8560.7	8609.8	8638.5	8683.4	8720.3	8736.6	8757.0	8781.6
10°	8437.9	8478.9	8532.1	8573.0	8634.4	8679.4	8724.3	8781.6	8806.1	8838.8	8871.6
12.5°	8405.3	8450.2	8507.5	8560.7	8630.2	8671.1	8728.4	8781.6	8818.4	8863.4	8900.2
15°	8356.3	8409.3	8462.5	8515.7	8589.3	8638.5	8691.7	8752.9	8789.8	8838.8	8871.6
17.5°	8278.5	8335.7	8384.9	8433.9	8503.4	8560.7	8609.8	8667.1	8703.9	8744.9	8789.8
20°	8184.4	8237.6	8290.8	8331.7	8401.2	8450.2	8503.4	8556.6	8585.3	8593.5	8663.0
22.5°	8065.9	8102.6	8143.5	8209.0	8249.9	8294.8	8344.0	8393.0	8421.6	8466.7	8491.1
25°	7869.4	7906.3	7951.2	7979.8	8029.0	8065.9	8114.9	8168.1	8184.4	8217.2	8241.6
27.5°	7595.5	7615.9	7636.4	7660.8	7689.4	7710.0	7738.6	7763.2	7779.5	7795.8	7812.2
30°	7161.8	7161.8	7161.8	7145.5	7157.8	7170.1	7174.1	7170.1	7170.1	7166.0	7166.0
32.5°	6589.2	6556.6	6519.7	6487.0	6474.8	6458.4	6450.2	6437.9	6417.5	6405.2	6409.3
35°	5816.2	5742.6	5697.6	5656.7	5624.1	5599.5	5587.2	5574.9	5570.9	5554.5	5538.0
37.5°	4851.0	4797.8	4765.1	4740.5	4711.9	4687.3	4691.4	4695.6	4707.7	4699.6	4703.7
40°	3828.4	3816.1	3828.4	3799.8	3791.5	3799.8	3820.1	3848.9	3865.3	3881.6	3910.2
42.5°	2912.2	2932.6	2961.4	2961.4	2973.5	2990.0	3014.4	3059.5	3083.9	3112.5	3145.4
45°	2192.3	2216.9	2253.8	2265.9	2274.1	2294.5	2323.3	2360.0	2376.3	2400.9	2429.5
47.5°	1689.3	1705.6	1726.0	1746.5	1766.9	1775.1	1803.8	1803.8	1824.3	1840.6	1848.7
50°	1317.0	1333.4	1349.7	1362.0	1370.2	1382.5	1390.6	1402.9	1406.9	1415.2	1419.2
52.5°	1030.7	1051.2	1051.2	1059.3	1071.6	1083.9	1079.8	1083.9	1087.9	1087.9	1100.2
55°	805.7	805.7	818.0	818.0	826.3	822.1	826.3	826.3	826.3	826.3	830.3
57.5°	601.2	605.4	617.7	609.4	605.4	613.5	605.4	613.5	609.4	617.7	605.4
60°	462.1	462.1	466.3	466.3	470.4	470.4	470.4	466.3	466.3	462.1	462.1
62.5°	347.7	351.7	355.9	351.7	351.7	351.7	347.7	347.7	343.6	339.4	339.4
65°	233.2	229.1	237.2	229.1	233.2	233.2	229.1	233.2	220.9	224.9	220.9
67.5°	167.7	163.6	159.6	163.6	159.6	155.4	155.4	159.6	163.6	151.4	151.4
70°	110.4	114.5	110.4	114.5	118.7	118.7	114.5	110.4	114.5	106.4	110.4
72.5°	69.5	69.5	69.5	69.5	69.5	73.6	73.6	73.6	65.5	65.5	61.3
75°	32.7	45.0	36.9	32.7	45.0	45.0	40.9	40.9	36.9	36.9	36.9
77.5°	32.7	24.6	24.6	24.6	24.6	24.6	24.6	24.6	20.4	24.6	20.4
80°	16.3	16.3	16.3	12.3	16.3	16.3	20.4	16.3	16.3	12.3	20.4
82.5°	8.2	8.2	8.2	0.0	4.0	8.2	8.2	4.0	8.2	8.2	4.0
85°	0.0	0.0	0.0	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	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: P248764

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8470.8	8466.7	8470.8	8474.8	8470.8	8466.7	8470.8	8474.8	8458.5	8454.4	8462.5
5°	8650.7	8650.7	8658.8	8663.0	8658.8	8650.7	8650.7	8634.4	8622.1	8609.8	8605.8
7.5°	8806.1	8814.4	8822.5	8826.5	8822.5	8814.4	8806.1	8781.6	8757.0	8736.6	8720.3
10°	8900.2	8912.5	8928.9	8936.9	8928.9	8912.5	8900.2	8871.6	8838.8	8806.1	8781.6
12.5°	8941.2	8953.4	8973.8	8969.8	8973.8	8953.4	8941.2	8900.2	8863.4	8818.4	8781.6
15°	8912.5	8928.9	8949.2	8957.5	8949.2	8928.9	8912.5	8871.6	8838.8	8789.8	8752.9
17.5°	8822.5	8847.0	8859.3	8871.6	8859.3	8847.0	8822.5	8789.8	8744.9	8703.9	8667.1
20°	8699.7	8716.2	8732.6	8736.6	8732.6	8716.2	8699.7	8663.0	8593.5	8585.3	8556.6
22.5°	8524.0	8536.3	8573.0	8560.7	8573.0	8536.3	8524.0	8491.1	8466.7	8421.6	8393.0
25°	8270.3	8282.5	8286.8	8290.8	8286.8	8282.5	8270.3	8241.6	8217.2	8184.4	8168.1
27.5°	7832.7	7832.7	7840.8	7845.0	7840.8	7832.7	7832.7	7812.2	7795.8	7779.5	7763.2
30°	7170.1	7170.1	7170.1	7190.6	7170.1	7170.1	7170.1	7166.0	7166.0	7170.1	7170.1
32.5°	6405.2	6397.0	6388.9	6397.0	6388.9	6397.0	6405.2	6409.3	6405.2	6417.5	6437.9
35°	5538.0	5534.0	5546.3	5529.9	5546.3	5534.0	5538.0	5538.0	5554.5	5570.9	5574.9
37.5°	4707.7	4699.6	4716.0	4699.6	4716.0	4699.6	4707.7	4703.7	4699.6	4707.7	4695.6
40°	3918.5	3926.5	3926.5	3959.4	3926.5	3926.5	3918.5	3910.2	3881.6	3865.3	3848.9
42.5°	3161.7	3186.3	3178.0	3202.6	3178.0	3186.3	3161.7	3145.4	3112.5	3083.9	3059.5
45°	2445.9	2462.4	2462.4	2470.4	2462.4	2462.4	2445.9	2429.5	2400.9	2376.3	2360.0
47.5°	1877.3	1877.3	1877.3	1881.5	1877.3	1877.3	1877.3	1848.7	1840.6	1824.3	1803.8
50°	1427.5	1431.5	1435.7	1439.8	1435.7	1431.5	1427.5	1419.2	1415.2	1406.9	1402.9
52.5°	1096.2	1100.2	1092.1	1100.2	1092.1	1100.2	1096.2	1100.2	1087.9	1087.9	1083.9
55°	830.3	826.3	830.3	834.4	830.3	826.3	830.3	830.3	826.3	826.3	826.3
57.5°	609.4	601.2	601.2	601.2	601.2	601.2	609.4	605.4	617.7	609.4	613.5
60°	454.1	458.1	458.1	462.1	458.1	458.1	454.1	462.1	462.1	466.3	466.3
62.5°	335.4	347.7	339.4	347.7	339.4	347.7	335.4	339.4	339.4	343.6	347.7
65°	216.8	216.8	216.8	220.9	216.8	216.8	216.8	220.9	224.9	220.9	233.2
67.5°	147.3	151.4	159.6	155.4	159.6	151.4	147.3	151.4	151.4	163.6	159.6
70°	118.7	106.4	106.4	118.7	106.4	106.4	118.7	110.4	106.4	114.5	110.4
72.5°	69.5	61.3	69.5	69.5	69.5	61.3	69.5	61.3	65.5	65.5	73.6
75°	36.9	32.7	28.6	40.9	28.6	32.7	36.9	36.9	36.9	36.9	40.9
77.5°	24.6	20.4	28.6	28.6	28.6	20.4	24.6	20.4	24.6	20.4	24.6
80°	12.3	16.3	12.3	20.4	12.3	16.3	12.3	20.4	12.3	16.3	16.3
82.5°	4.0	8.2	8.2	8.2	8.2	8.2	4.0	4.0	8.2	8.2	4.0
85°	0.0	8.2	4.0	4.0	4.0	8.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	0.0	4.0	0.0	0.0	4.0	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: P248764

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8462.5	8450.2	8454.4	8429.9	8429.9	8421.6	8425.8	8405.3	8397.2	8389.0	8401.2
5°	8585.3	8564.9	8548.4	8511.7	8491.1	8466.7	8454.4	8421.6	8393.0	8368.4	8364.4
7.5°	8683.4	8638.5	8609.8	8560.7	8524.0	8495.4	8454.4	8409.3	8372.6	8339.8	8315.4
10°	8724.3	8679.4	8634.4	8573.0	8532.1	8478.9	8437.9	8380.7	8331.7	8286.8	8258.0
12.5°	8728.4	8671.1	8630.2	8560.7	8507.5	8450.2	8405.3	8339.8	8282.5	8237.6	8192.6
15°	8691.7	8638.5	8589.3	8515.7	8462.5	8409.3	8356.3	8286.8	8233.6	8180.4	8147.7
17.5°	8609.8	8560.7	8503.4	8433.9	8384.9	8335.7	8278.5	8221.3	8159.8	8102.6	8061.7
20°	8503.4	8450.2	8401.2	8331.7	8290.8	8237.6	8184.4	8123.1	8074.0	8016.7	7971.8
22.5°	8344.0	8294.8	8249.9	8209.0	8143.5	8102.6	8065.9	7996.3	7947.2	7894.0	7845.0
25°	8114.9	8065.9	8029.0	7979.8	7951.2	7906.3	7869.4	7808.1	7763.2	7714.0	7673.1
27.5°	7738.6	7710.0	7689.4	7660.8	7636.4	7615.9	7595.5	7546.3	7513.7	7468.7	7427.8
30°	7174.1	7170.1	7157.8	7145.5	7161.8	7161.8	7161.8	7153.7	7125.1	7092.3	7063.7
32.5°	6450.2	6458.4	6474.8	6487.0	6519.7	6556.6	6589.2	6605.6	6605.6	6585.2	6572.9
35°	5587.2	5599.5	5624.1	5656.7	5697.6	5742.6	5816.2	5832.7	5844.8	5844.8	5828.4
37.5°	4691.4	4687.3	4711.9	4740.5	4765.1	4797.8	4851.0	4863.3	4883.6	4875.6	4859.1
40°	3820.1	3799.8	3791.5	3799.8	3828.4	3816.1	3828.4	3820.1	3820.1	3791.5	3791.5
42.5°	3014.4	2990.0	2973.5	2961.4	2961.4	2932.6	2912.2	2891.8	2879.5	2859.0	2855.0
45°	2323.3	2294.5	2274.1	2265.9	2253.8	2216.9	2192.3	2167.7	2139.1	2131.0	2135.1
47.5°	1803.8	1775.1	1766.9	1746.5	1726.0	1705.6	1689.3	1660.7	1656.4	1640.1	1656.4
50°	1390.6	1382.5	1370.2	1362.0	1349.7	1333.4	1317.0	1300.7	1292.5	1292.5	1296.5
52.5°	1079.8	1083.9	1071.6	1059.3	1051.2	1051.2	1030.7	1026.6	1026.6	1010.3	1026.6
55°	826.3	822.1	826.3	818.0	818.0	805.7	805.7	793.5	793.5	781.2	789.4
57.5°	605.4	613.5	605.4	609.4	617.7	605.4	601.2	588.9	597.2	588.9	593.1
60°	470.4	470.4	470.4	466.3	466.3	462.1	462.1	458.1	458.1	449.8	458.1
62.5°	347.7	351.7	351.7	351.7	355.9	351.7	347.7	351.7	347.7	347.7	351.7
65°	229.1	233.2	233.2	229.1	237.2	229.1	233.2	237.2	241.3	237.2	241.3
67.5°	155.4	155.4	159.6	163.6	159.6	163.6	167.7	163.6	167.7	175.9	167.7
70°	114.5	118.7	118.7	114.5	110.4	114.5	110.4	122.7	122.7	122.7	130.8
72.5°	73.6	73.6	69.5	69.5	69.5	69.5	69.5	81.8	73.6	69.5	77.8
75°	40.9	45.0	45.0	32.7	36.9	45.0	32.7	36.9	49.2	40.9	49.2
77.5°	24.6	24.6	24.6	24.6	24.6	24.6	32.7	28.6	28.6	28.6	32.7
80°	20.4	16.3	16.3	12.3	16.3	16.3	16.3	24.6	20.4	20.4	24.6
82.5°	8.2	8.2	4.0	0.0	8.2	8.2	8.2	8.2	8.2	8.2	16.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	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: P248764

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8368.4	8368.4	8364.4	8356.3	8339.8	8339.8	8335.7	8323.5	8315.4	8311.2	8311.2
5°	8327.5	8311.2	8294.8	8249.9	8249.9	8241.6	8217.2	8200.7	8192.6	8172.1	8164.0
7.5°	8290.8	8241.6	8213.0	8184.4	8147.7	8131.2	8102.6	8090.3	8061.7	8041.3	8029.0
10°	8200.7	8168.1	8131.2	8086.2	8057.6	8025.0	7992.1	7967.7	7930.9	7910.3	7894.0
12.5°	8139.4	8090.3	8057.6	8008.5	7959.5	7930.9	7885.9	7857.3	7820.4	7779.5	7754.9
15°	8082.2	8029.0	7984.1	7930.9	7877.7	7845.0	7791.8	7759.1	7705.9	7665.0	7636.4
17.5°	7996.3	7951.2	7902.2	7836.7	7787.8	7746.8	7689.4	7648.7	7599.5	7546.3	7517.7
20°	7906.3	7853.1	7804.1	7738.6	7689.4	7640.4	7583.2	7538.3	7480.8	7431.9	7399.2
22.5°	7787.8	7726.3	7685.4	7619.9	7562.7	7509.6	7456.4	7403.2	7350.0	7309.1	7272.3
25°	7615.9	7550.4	7505.4	7452.2	7399.2	7358.3	7292.8	7260.1	7206.9	7170.1	7133.2
27.5°	7370.4	7321.4	7280.5	7227.3	7182.4	7149.7	7100.5	7067.9	7022.8	6990.1	6961.5
30°	7010.6	6969.7	6932.8	6879.6	6847.0	6818.4	6773.2	6744.6	6712.0	6675.1	6667.0
32.5°	6528.0	6495.1	6458.4	6421.6	6397.0	6380.6	6343.8	6327.4	6294.8	6274.2	6253.9
35°	5799.8	5771.2	5750.8	5734.5	5726.3	5730.3	5722.2	5738.5	5746.6	5742.6	5746.6
37.5°	4846.9	4830.4	4838.7	4851.0	4891.9	4945.1	4994.1	5067.6	5116.8	5166.0	5210.9
40°	3783.4	3795.7	3828.4	3902.0	4008.4	4127.0	4237.5	4376.6	4515.6	4613.8	4703.7
42.5°	2855.0	2891.8	2973.5	3079.9	3239.5	3415.2	3587.1	3791.5	3959.4	4122.8	4237.5
45°	2147.4	2196.4	2302.8	2450.1	2625.8	2830.4	3047.2	3276.2	3476.7	3644.4	3771.1
47.5°	1672.9	1717.9	1824.3	1979.7	2196.4	2409.2	2634.1	2871.3	3079.9	3243.5	3354.0
50°	1321.1	1378.3	1472.4	1636.1	1852.9	2077.8	2311.0	2544.0	2740.5	2879.5	2977.7
52.5°	1038.9	1092.1	1182.0	1353.9	1574.8	1799.7	2016.4	2245.5	2417.2	2552.3	2617.7
55°	805.7	854.9	948.8	1092.1	1300.7	1521.6	1738.3	1934.7	2094.2	2192.3	2253.8
57.5°	613.5	650.4	715.8	858.9	1047.2	1251.5	1435.7	1632.0	1754.8	1824.3	1865.0
60°	466.3	495.0	564.5	674.9	846.7	1022.6	1178.0	1325.3	1423.4	1480.7	1521.6
62.5°	351.7	384.5	433.5	527.6	658.4	801.7	932.5	1043.0	1124.8	1161.6	1190.3
65°	241.3	265.8	302.7	376.3	486.7	588.9	691.3	773.1	826.3	867.2	883.5
67.5°	180.0	196.3	216.8	274.1	351.7	433.5	503.0	560.3	617.7	634.0	662.6
70°	135.0	147.3	167.7	208.6	253.5	310.8	368.2	400.9	441.8	470.4	478.6
72.5°	85.9	89.9	110.4	135.0	171.7	208.6	245.5	274.1	298.7	315.0	323.1
75°	49.2	73.6	73.6	98.2	122.7	139.1	163.6	184.0	196.3	208.6	208.6
77.5°	32.7	45.0	49.2	61.3	73.6	94.1	114.5	126.8	139.1	143.1	143.1
80°	28.6	32.7	32.7	45.0	53.2	69.5	81.8	85.9	94.1	98.2	106.4
82.5°	12.3	16.3	20.4	32.7	36.9	36.9	49.2	53.2	61.3	65.5	65.5
85°	4.0	8.2	8.2	12.3	20.4	24.6	28.6	32.7	36.9	36.9	40.9
87.5°	4.0	4.0	0.0	4.0	8.2	8.2	16.3	16.3	16.3	24.6	24.6
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: P248764

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7	8376.7
2.5°	8303.1	8307.1	8290.8	8286.8	8278.5	8282.5	8290.8
5°	8151.7	8155.8	8139.4	8123.1	8123.1	8118.9	8123.1
7.5°	8008.5	8012.7	7988.1	7979.8	7963.5	7967.7	7967.7
10°	7865.4	7865.4	7828.7	7824.5	7812.2	7808.1	7808.1
12.5°	7726.3	7714.0	7685.4	7669.1	7677.3	7652.7	7652.7
15°	7603.6	7583.2	7546.3	7534.0	7513.7	7505.4	7505.4
17.5°	7476.8	7460.5	7427.8	7403.2	7378.7	7374.6	7378.7
20°	7354.1	7337.7	7296.8	7280.5	7260.1	7260.1	7251.9
22.5°	7231.3	7215.0	7178.3	7166.0	7137.4	7137.4	7141.4
25°	7104.6	7092.3	7051.4	7043.3	7039.2	7022.8	7031.0
27.5°	6932.8	6924.6	6891.9	6879.6	6863.3	6859.3	6867.4
30°	6617.9	6605.6	6581.2	6568.9	6540.2	6544.3	6552.4
32.5°	6225.3	6208.9	6176.1	6163.8	6139.4	6131.1	6135.2
35°	5734.5	5722.2	5693.6	5693.6	5669.0	5660.8	5669.0
37.5°	5235.5	5247.6	5235.5	5247.6	5235.5	5231.3	5235.5
40°	4765.1	4810.1	4818.1	4863.3	4846.9	4871.3	4867.3
42.5°	4315.1	4388.7	4417.5	4454.2	4446.1	4462.4	4474.7
45°	3861.0	3922.5	3951.1	3975.7	3979.7	3988.0	3992.0
47.5°	3431.6	3480.7	3484.8	3513.4	3509.4	3509.4	3521.6
50°	3030.9	3063.6	3071.6	3092.2	3075.8	3067.6	3071.6
52.5°	2658.7	2691.3	2683.1	2691.3	2670.9	2662.7	2666.7
55°	2278.2	2294.5	2294.5	2294.5	2270.1	2270.1	2270.1
57.5°	1889.6	1893.8	1885.6	1889.6	1885.6	1861.0	1857.0
60°	1533.9	1533.9	1529.7	1533.9	1521.6	1509.3	1509.3
62.5°	1198.3	1206.6	1222.9	1206.6	1198.3	1206.6	1194.3
65°	895.8	912.1	907.9	916.2	912.1	912.1	903.9
67.5°	674.9	679.0	683.0	687.2	687.2	687.2	687.2
70°	495.0	507.3	503.0	503.0	503.0	503.0	527.6
72.5°	331.3	347.7	343.6	351.7	351.7	359.9	351.7
75°	224.9	241.3	233.2	245.5	241.3	233.2	253.5
77.5°	151.4	159.6	163.6	167.7	163.6	159.6	163.6
80°	106.4	114.5	110.4	114.5	114.5	114.5	118.7
82.5°	65.5	77.8	73.6	77.8	73.6	77.8	77.8
85°	45.0	49.2	40.9	49.2	45.0	45.0	53.2
87.5°	28.6	24.6	24.6	28.6	24.6	28.6	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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