

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: P248836

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248836
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 EC8B150940 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13396.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

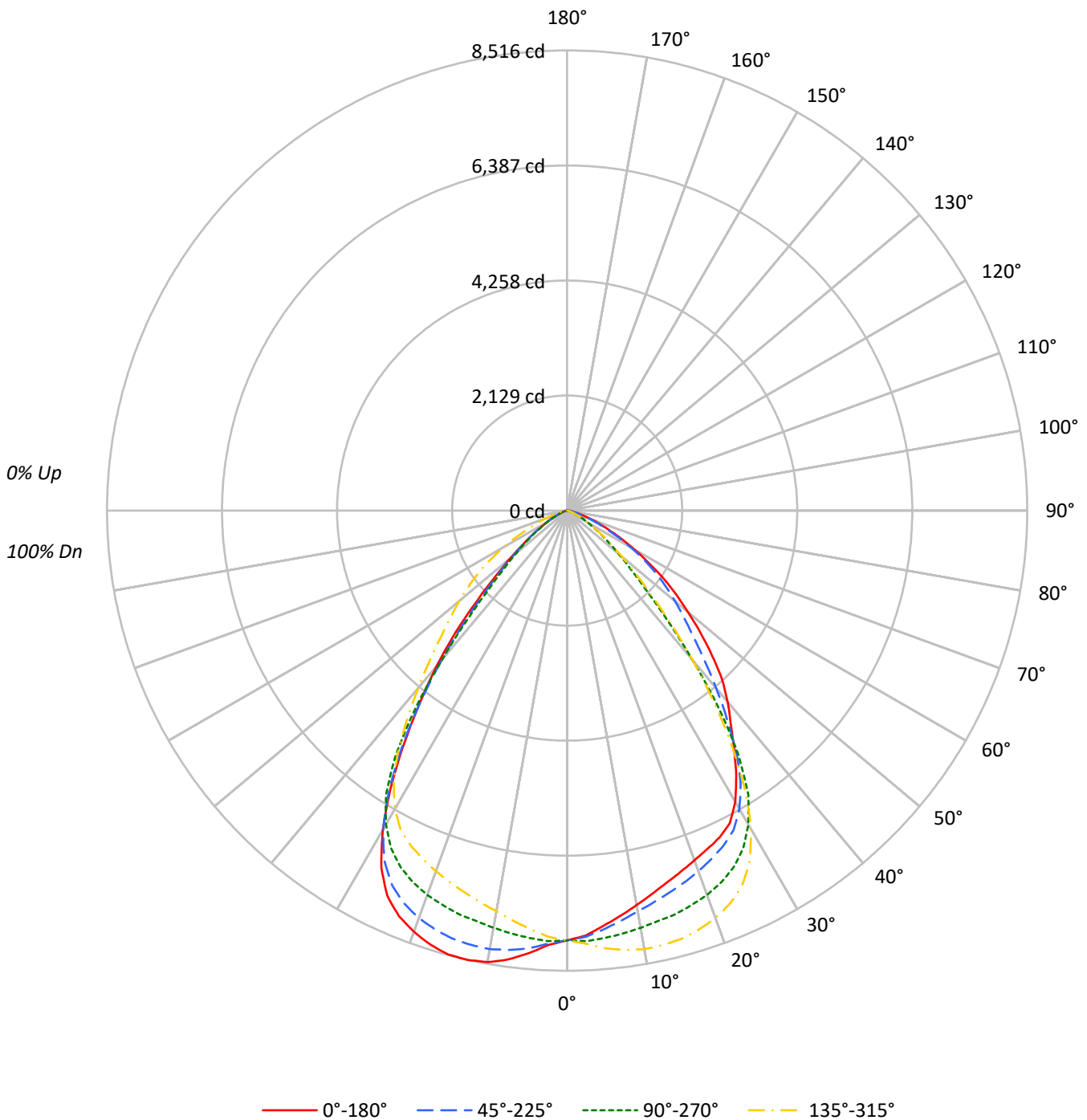
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	245235	245235	245235	245235
5°	238721	245810	254588	245810
10°	232116	245489	265673	245489
15°	227478	246946	271489	246946
20°	225930	248359	272187	248359
25°	227118	247859	267814	247859
30°	221502	238786	243076	238786
35°	202605	208304	197636	208304
40°	186014	144902	151315	144902
45°	165279	88396	102281	88396
50°	139898	59050	65574	59050
55°	115867	40294	42584	40294
60°	88371	26821	27056	26821
65°	62619	16709	15301	16709
70°	45161	11198	10161	11198
75°	28678	5564	4623	5564
80°	20013	4138	3427	4138
85°	17867	0	1344	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.0	5.7
10°-20°	2192.0	16.4
20°-30°	3319.2	24.8
30°-40°	3326.6	24.8
40°-50°	2088.9	15.6
50°-60°	1113.2	8.3
60°-70°	457.8	3.4
70°-80°	120.9	0.9
80°-90°	20.4	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°	6268.1	46.8
0°-40°	9594.7	71.6
0°-60°	12796.8	95.5
0°-90°	13396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13396.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7953	7953	7953	7953	7953	
5°	7712	7941	8225	7941	7712	727
15°	7126	7735	8504	7735	7126	2015
25°	6675	7285	7871	7285	6675	3062
35°	5382	5534	5250	5534	5382	3372
45°	3790	2027	2345	2027	3790	2915
55°	2155	750	792	750	2155	1921
65°	858	229	210	229	858	890
75°	241	47	39	47	241	273
85°	50	0	4	0	50	55
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°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	7871.3	7863.4	7859.6	7867.4	7871.3	7886.8	7882.9	7890.6	7890.6	7894.6	7902.3
5°	7712.1	7708.1	7712.1	7712.1	7727.6	7743.1	7739.2	7750.9	7758.6	7778.1	7785.8
7.5°	7564.5	7564.5	7560.5	7576.0	7583.9	7607.2	7603.2	7622.7	7634.4	7653.7	7680.9
10°	7413.0	7413.0	7416.9	7428.5	7432.5	7467.4	7467.4	7494.5	7510.0	7529.5	7564.5
12.5°	7265.5	7265.5	7288.8	7281.0	7296.5	7323.7	7335.3	7362.5	7385.8	7424.7	7459.7
15°	7125.6	7125.6	7133.5	7152.8	7164.5	7199.5	7218.8	7250.0	7277.2	7316.0	7366.5
17.5°	7005.3	7001.4	7005.3	7028.6	7051.9	7083.0	7098.5	7137.3	7164.5	7215.0	7261.7
20°	6884.9	6892.8	6892.8	6912.1	6927.6	6966.4	6981.9	7024.8	7055.8	7102.3	7156.8
22.5°	6780.1	6776.2	6776.2	6803.4	6815.1	6849.9	6865.4	6904.3	6939.3	6978.1	7028.6
25°	6675.2	6667.4	6683.0	6686.9	6694.6	6733.4	6745.1	6772.2	6807.2	6842.2	6892.8
27.5°	6519.9	6512.2	6516.0	6531.5	6543.2	6574.2	6582.0	6609.2	6636.4	6667.4	6710.2
30°	6220.8	6213.1	6209.3	6236.5	6248.1	6271.3	6283.0	6329.7	6337.3	6372.3	6403.3
32.5°	5824.7	5820.9	5828.7	5851.9	5863.6	5894.7	5910.2	5937.4	5956.8	5976.3	6007.3
35°	5382.1	5374.3	5382.1	5405.5	5405.5	5432.7	5444.3	5455.8	5452.0	5455.8	5448.2
37.5°	4970.6	4966.6	4970.6	4982.1	4970.6	4982.1	4970.6	4947.2	4904.6	4857.9	4811.2
40°	4621.0	4624.8	4601.7	4617.2	4574.3	4566.7	4524.0	4465.6	4380.3	4287.1	4155.1
42.5°	4248.3	4236.6	4221.1	4228.8	4193.9	4166.6	4096.7	4023.1	3914.2	3759.0	3599.7
45°	3790.0	3786.2	3778.4	3774.5	3751.2	3724.0	3665.7	3580.3	3460.0	3300.8	3110.4
47.5°	3343.4	3331.8	3331.8	3335.6	3308.4	3304.6	3257.9	3184.2	3079.4	2924.0	2726.0
50°	2916.2	2912.4	2920.2	2935.7	2916.2	2908.5	2877.5	2827.0	2733.8	2601.8	2415.3
52.5°	2531.8	2528.0	2535.8	2555.1	2547.3	2555.1	2524.1	2485.3	2423.1	2294.9	2131.9
55°	2155.2	2155.2	2155.2	2178.4	2178.4	2178.4	2162.9	2139.7	2081.4	1988.2	1836.8
57.5°	1763.0	1766.8	1790.2	1794.0	1790.2	1798.0	1794.0	1770.7	1732.0	1666.0	1549.4
60°	1432.9	1432.9	1444.6	1456.3	1452.3	1456.3	1456.3	1444.6	1405.8	1351.4	1258.2
62.5°	1133.9	1145.5	1137.7	1145.5	1161.0	1145.5	1137.7	1130.0	1102.9	1067.9	990.2
65°	858.2	866.0	866.0	869.8	862.0	866.0	850.5	838.8	823.3	784.5	734.0
67.5°	652.4	652.4	652.4	652.4	648.5	644.6	640.8	629.1	601.9	586.4	531.9
70°	500.9	477.6	477.6	477.6	477.6	481.6	469.9	454.4	446.6	419.4	380.6
72.5°	333.9	341.7	333.9	333.9	326.2	330.1	314.6	306.7	299.1	283.5	260.2
75°	240.7	221.4	229.0	233.0	221.4	229.0	213.5	198.0	198.0	186.4	174.7
77.5°	155.4	151.5	155.4	159.2	155.4	151.5	143.7	135.9	135.9	132.0	120.4
80°	112.7	108.7	108.7	108.7	104.9	108.7	101.0	101.0	93.2	89.3	81.5
82.5°	73.8	73.8	69.8	73.8	69.8	73.8	62.2	62.2	62.2	58.2	50.5
85°	50.5	42.7	42.7	46.7	38.8	46.7	42.7	38.8	35.0	35.0	31.0
87.5°	23.3	27.2	23.3	27.2	23.3	23.3	27.2	23.3	23.3	15.5	15.5
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°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	7913.9	7917.8	7917.8	7933.4	7941.1	7944.9	7944.9	7976.1	7964.4	7972.3	7980.0
5°	7801.4	7824.6	7832.4	7832.4	7875.1	7890.6	7906.1	7941.1	7944.9	7968.3	7995.5
7.5°	7692.6	7719.7	7735.4	7770.2	7797.4	7824.6	7871.3	7894.6	7917.8	7948.9	7983.8
10°	7587.7	7618.9	7649.9	7677.1	7719.7	7754.7	7785.8	7840.1	7867.4	7910.1	7956.6
12.5°	7486.9	7529.5	7556.7	7603.2	7649.9	7680.9	7727.6	7778.1	7820.8	7863.4	7917.8
15°	7397.5	7448.0	7479.0	7529.5	7580.0	7622.7	7673.2	7735.4	7766.4	7816.9	7867.4
17.5°	7300.3	7354.8	7393.7	7440.2	7502.4	7548.9	7591.7	7653.7	7692.6	7746.9	7805.3
20°	7199.5	7253.8	7300.3	7347.0	7409.2	7455.7	7506.2	7568.4	7611.1	7665.4	7712.1
22.5°	7079.1	7129.6	7180.0	7234.3	7296.5	7335.3	7393.7	7448.0	7494.5	7545.0	7591.7
25°	6923.8	6985.9	7024.8	7075.1	7125.6	7168.3	7230.5	7284.8	7323.7	7370.3	7413.0
27.5°	6741.2	6787.9	6818.9	6861.6	6912.1	6950.9	6997.4	7051.9	7090.8	7133.5	7164.5
30°	6430.5	6473.3	6500.5	6531.5	6582.0	6617.0	6655.9	6706.2	6733.4	6764.6	6791.7
32.5°	6022.8	6057.8	6073.3	6096.6	6131.6	6166.5	6197.6	6240.3	6252.0	6271.3	6271.3
35°	5432.7	5440.3	5436.5	5444.3	5459.8	5479.2	5506.3	5533.5	5549.0	5549.0	5537.5
37.5°	4741.4	4694.9	4644.3	4605.5	4593.8	4586.0	4601.7	4613.2	4628.8	4636.5	4617.2
40°	4023.1	3918.2	3805.5	3704.5	3634.7	3603.7	3592.0	3599.7	3599.7	3626.8	3626.8
42.5°	3405.6	3242.4	3075.6	2924.0	2823.0	2745.5	2710.5	2710.5	2714.3	2733.8	2745.5
45°	2893.0	2687.2	2493.0	2326.1	2186.2	2085.2	2038.7	2027.0	2023.2	2030.9	2058.0
47.5°	2500.8	2287.2	2085.2	1879.5	1732.0	1631.0	1588.3	1572.6	1557.1	1572.6	1576.6
50°	2194.1	1972.7	1759.2	1553.3	1397.9	1308.6	1254.2	1230.9	1227.1	1227.1	1234.9
52.5°	1914.4	1708.6	1495.1	1285.4	1122.2	1036.9	986.3	974.7	959.2	974.7	974.7
55°	1650.3	1444.6	1234.9	1036.9	900.8	811.6	765.0	749.5	741.6	753.3	753.3
57.5°	1363.1	1188.2	994.2	815.5	679.6	617.4	582.4	563.1	559.1	566.9	559.1
60°	1118.4	970.8	803.8	640.8	535.9	469.9	442.7	434.9	427.1	434.9	434.9
62.5°	885.3	761.1	625.1	500.9	411.6	365.1	333.9	333.9	330.1	330.1	333.9
65°	656.3	559.1	462.1	357.2	287.4	252.4	229.0	229.0	225.2	229.0	225.2
67.5°	477.6	411.6	333.9	260.2	205.9	186.4	170.9	159.2	167.0	159.2	155.4
70°	349.6	295.1	240.7	198.0	159.2	139.9	128.2	124.2	116.5	116.5	116.5
72.5°	233.0	198.0	163.0	128.2	104.9	85.4	81.5	73.8	66.0	69.8	77.7
75°	155.4	132.0	116.5	93.2	69.8	69.8	46.7	46.7	38.8	46.7	35.0
77.5°	108.7	89.3	69.8	58.2	46.7	42.7	31.0	31.0	27.2	27.2	27.2
80°	77.7	66.0	50.5	42.7	31.0	31.0	27.2	23.3	19.3	19.3	23.3
82.5°	46.7	35.0	35.0	31.0	19.3	15.5	11.7	15.5	7.8	7.8	7.8
85°	27.2	23.3	19.3	11.7	7.8	7.8	3.8	0.0	3.8	3.8	0.0
87.5°	15.5	7.8	7.8	3.8	0.0	3.8	3.8	0.0	0.0	0.0	7.8
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°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	7999.5	7995.5	8003.3	8003.3	8026.6	8022.6	8034.3	8034.3	8026.6	8030.5	8046.0
5°	8026.6	8038.3	8061.5	8081.0	8115.8	8131.5	8150.8	8170.3	8174.2	8185.8	8197.5
7.5°	8026.6	8065.5	8092.6	8127.5	8174.2	8201.3	8244.0	8279.0	8294.5	8313.8	8337.2
10°	8011.0	8049.8	8100.3	8139.1	8197.5	8240.2	8282.8	8337.2	8360.5	8391.5	8422.7
12.5°	7980.0	8022.6	8077.0	8127.5	8193.5	8232.3	8286.7	8337.2	8372.2	8414.9	8449.9
15°	7933.4	7983.8	8034.3	8084.8	8154.7	8201.3	8251.8	8310.0	8345.0	8391.5	8422.7
17.5°	7859.6	7913.9	7960.6	8007.1	8073.1	8127.5	8174.2	8228.5	8263.5	8302.3	8345.0
20°	7770.2	7820.8	7871.3	7910.1	7976.1	8022.6	8073.1	8123.6	8150.8	8158.6	8224.7
22.5°	7657.7	7692.6	7731.4	7793.6	7832.4	7875.1	7921.8	7968.3	7995.5	8038.3	8061.5
25°	7471.2	7506.2	7548.9	7576.0	7622.7	7657.7	7704.2	7754.7	7770.2	7801.4	7824.6
27.5°	7211.1	7230.5	7250.0	7273.2	7300.3	7319.8	7347.0	7370.3	7385.8	7401.3	7416.9
30°	6799.4	6799.4	6799.4	6783.9	6795.6	6807.2	6811.1	6807.2	6807.2	6803.4	6803.4
32.5°	6255.8	6224.8	6189.8	6158.8	6147.1	6131.6	6123.8	6112.1	6092.8	6081.1	6084.9
35°	5521.8	5452.0	5409.3	5370.5	5339.5	5316.1	5304.5	5292.8	5289.0	5273.5	5257.8
37.5°	4605.5	4555.0	4524.0	4500.7	4473.5	4450.1	4454.0	4458.0	4469.5	4461.8	4465.6
40°	3634.7	3623.0	3634.7	3607.5	3599.7	3607.5	3626.8	3654.2	3669.7	3685.2	3712.3
42.5°	2764.8	2784.2	2811.5	2811.5	2823.0	2838.7	2861.9	2904.7	2927.9	2955.0	2986.2
45°	2081.4	2104.7	2139.7	2151.2	2159.1	2178.4	2205.7	2240.6	2256.1	2279.4	2306.6
47.5°	1603.8	1619.3	1638.6	1658.1	1677.5	1685.3	1712.5	1712.5	1732.0	1747.5	1755.2
50°	1250.4	1265.9	1281.4	1293.1	1300.9	1312.6	1320.2	1331.9	1335.7	1343.6	1347.4
52.5°	978.5	998.0	998.0	1005.7	1017.4	1029.0	1025.2	1029.0	1032.9	1032.9	1044.5
55°	765.0	765.0	776.6	776.6	784.5	780.5	784.5	784.5	784.5	784.5	788.3
57.5°	570.8	574.8	586.4	578.6	574.8	582.4	574.8	582.4	578.6	586.4	574.8
60°	438.7	438.7	442.7	442.7	446.6	446.6	446.6	442.7	442.7	438.7	438.7
62.5°	330.1	333.9	337.9	333.9	333.9	333.9	330.1	330.1	326.2	322.2	322.2
65°	221.4	217.5	225.2	217.5	221.4	221.4	217.5	221.4	209.7	213.5	209.7
67.5°	159.2	155.4	151.5	155.4	151.5	147.5	147.5	151.5	155.4	143.7	143.7
70°	104.9	108.7	104.9	108.7	112.7	112.7	108.7	104.9	108.7	101.0	104.9
72.5°	66.0	66.0	66.0	66.0	66.0	69.8	69.8	69.8	62.2	62.2	58.2
75°	31.0	42.7	35.0	31.0	42.7	42.7	38.8	38.8	35.0	35.0	35.0
77.5°	31.0	23.3	23.3	23.3	23.3	23.3	23.3	23.3	19.3	23.3	19.3
80°	15.5	15.5	15.5	11.7	15.5	15.5	19.3	15.5	15.5	11.7	19.3
82.5°	7.8	7.8	7.8	0.0	3.8	7.8	7.8	3.8	7.8	7.8	3.8
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: P248836

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	8042.1	8038.3	8042.1	8046.0	8042.1	8038.3	8042.1	8046.0	8030.5	8026.6	8034.3
5°	8213.0	8213.0	8220.7	8224.7	8220.7	8213.0	8213.0	8197.5	8185.8	8174.2	8170.3
7.5°	8360.5	8368.4	8376.0	8379.9	8376.0	8368.4	8360.5	8337.2	8313.8	8294.5	8279.0
10°	8449.9	8461.5	8477.0	8484.7	8477.0	8461.5	8449.9	8422.7	8391.5	8360.5	8337.2
12.5°	8488.7	8500.4	8519.7	8515.9	8519.7	8500.4	8488.7	8449.9	8414.9	8372.2	8337.2
15°	8461.5	8477.0	8496.4	8504.2	8496.4	8477.0	8461.5	8422.7	8391.5	8345.0	8310.0
17.5°	8376.0	8399.4	8411.0	8422.7	8411.0	8399.4	8376.0	8345.0	8302.3	8263.5	8228.5
20°	8259.5	8275.2	8290.7	8294.5	8290.7	8275.2	8259.5	8224.7	8158.6	8150.8	8123.6
22.5°	8092.6	8104.3	8139.1	8127.5	8139.1	8104.3	8092.6	8061.5	8038.3	7995.5	7968.3
25°	7851.8	7863.4	7867.4	7871.3	7867.4	7863.4	7851.8	7824.6	7801.4	7770.2	7754.7
27.5°	7436.4	7436.4	7444.0	7448.0	7444.0	7436.4	7436.4	7416.9	7401.3	7385.8	7370.3
30°	6807.2	6807.2	6807.2	6826.7	6807.2	6807.2	6807.2	6803.4	6803.4	6807.2	6807.2
32.5°	6081.1	6073.3	6065.6	6073.3	6065.6	6073.3	6081.1	6084.9	6081.1	6092.8	6112.1
35°	5257.8	5254.0	5265.6	5250.1	5265.6	5254.0	5257.8	5257.8	5273.5	5289.0	5292.8
37.5°	4469.5	4461.8	4477.3	4461.8	4477.3	4461.8	4469.5	4465.6	4461.8	4469.5	4458.0
40°	3720.2	3727.8	3727.8	3759.0	3727.8	3727.8	3720.2	3712.3	3685.2	3669.7	3654.2
42.5°	3001.7	3025.0	3017.2	3040.6	3017.2	3025.0	3001.7	2986.2	2955.0	2927.9	2904.7
45°	2322.1	2337.8	2337.8	2345.4	2337.8	2337.8	2322.1	2306.6	2279.4	2256.1	2240.6
47.5°	1782.3	1782.3	1782.3	1786.3	1782.3	1782.3	1782.3	1755.2	1747.5	1732.0	1712.5
50°	1355.2	1359.1	1363.1	1366.9	1363.1	1359.1	1355.2	1347.4	1343.6	1335.7	1331.9
52.5°	1040.7	1044.5	1036.9	1044.5	1036.9	1044.5	1040.7	1044.5	1032.9	1032.9	1029.0
55°	788.3	784.5	788.3	792.1	788.3	784.5	788.3	788.3	784.5	784.5	784.5
57.5°	578.6	570.8	570.8	570.8	570.8	570.8	578.6	574.8	586.4	578.6	582.4
60°	431.1	434.9	434.9	438.7	434.9	434.9	431.1	438.7	438.7	442.7	442.7
62.5°	318.4	330.1	322.2	330.1	322.2	330.1	318.4	322.2	322.2	326.2	330.1
65°	205.9	205.9	205.9	209.7	205.9	205.9	205.9	209.7	213.5	209.7	221.4
67.5°	139.9	143.7	151.5	147.5	151.5	143.7	139.9	143.7	143.7	155.4	151.5
70°	112.7	101.0	101.0	112.7	101.0	101.0	112.7	104.9	101.0	108.7	104.9
72.5°	66.0	58.2	66.0	66.0	66.0	58.2	66.0	58.2	62.2	62.2	69.8
75°	35.0	31.0	27.2	38.8	27.2	31.0	35.0	35.0	35.0	35.0	38.8
77.5°	23.3	19.3	27.2	27.2	27.2	19.3	23.3	19.3	23.3	19.3	23.3
80°	11.7	15.5	11.7	19.3	11.7	15.5	11.7	19.3	11.7	15.5	15.5
82.5°	3.8	7.8	7.8	7.8	7.8	7.8	3.8	3.8	7.8	7.8	3.8
85°	0.0	7.8	3.8	3.8	3.8	7.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.0	0.0	3.8	0.0	0.0	3.8	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: P248836

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	8034.3	8022.6	8026.6	8003.3	8003.3	7995.5	7999.5	7980.0	7972.3	7964.4	7976.1
5°	8150.8	8131.5	8115.8	8081.0	8061.5	8038.3	8026.6	7995.5	7968.3	7944.9	7941.1
7.5°	8244.0	8201.3	8174.2	8127.5	8092.6	8065.5	8026.6	7983.8	7948.9	7917.8	7894.6
10°	8282.8	8240.2	8197.5	8139.1	8100.3	8049.8	8011.0	7956.6	7910.1	7867.4	7840.1
12.5°	8286.7	8232.3	8193.5	8127.5	8077.0	8022.6	7980.0	7917.8	7863.4	7820.8	7778.1
15°	8251.8	8201.3	8154.7	8084.8	8034.3	7983.8	7933.4	7867.4	7816.9	7766.4	7735.4
17.5°	8174.2	8127.5	8073.1	8007.1	7960.6	7913.9	7859.6	7805.3	7746.9	7692.6	7653.7
20°	8073.1	8022.6	7976.1	7910.1	7871.3	7820.8	7770.2	7712.1	7665.4	7611.1	7568.4
22.5°	7921.8	7875.1	7832.4	7793.6	7731.4	7692.6	7657.7	7591.7	7545.0	7494.5	7448.0
25°	7704.2	7657.7	7622.7	7576.0	7548.9	7506.2	7471.2	7413.0	7370.3	7323.7	7284.8
27.5°	7347.0	7319.8	7300.3	7273.2	7250.0	7230.5	7211.1	7164.5	7133.5	7090.8	7051.9
30°	6811.1	6807.2	6795.6	6783.9	6799.4	6799.4	6799.4	6791.7	6764.6	6733.4	6706.2
32.5°	6123.8	6131.6	6147.1	6158.8	6189.8	6224.8	6255.8	6271.3	6271.3	6252.0	6240.3
35°	5304.5	5316.1	5339.5	5370.5	5409.3	5452.0	5521.8	5537.5	5549.0	5549.0	5533.5
37.5°	4454.0	4450.1	4473.5	4500.7	4524.0	4555.0	4605.5	4617.2	4636.5	4628.8	4613.2
40°	3626.8	3607.5	3599.7	3607.5	3634.7	3623.0	3634.7	3626.8	3626.8	3599.7	3599.7
42.5°	2861.9	2838.7	2823.0	2811.5	2811.5	2784.2	2764.8	2745.5	2733.8	2714.3	2710.5
45°	2205.7	2178.4	2159.1	2151.2	2139.7	2104.7	2081.4	2058.0	2030.9	2023.2	2027.0
47.5°	1712.5	1685.3	1677.5	1658.1	1638.6	1619.3	1603.8	1576.6	1572.6	1557.1	1572.6
50°	1320.2	1312.6	1300.9	1293.1	1281.4	1265.9	1250.4	1234.9	1227.1	1227.1	1230.9
52.5°	1025.2	1029.0	1017.4	1005.7	998.0	998.0	978.5	974.7	974.7	959.2	974.7
55°	784.5	780.5	784.5	776.6	776.6	765.0	765.0	753.3	753.3	741.6	749.5
57.5°	574.8	582.4	574.8	578.6	586.4	574.8	570.8	559.1	566.9	559.1	563.1
60°	446.6	446.6	446.6	442.7	442.7	438.7	438.7	434.9	434.9	427.1	434.9
62.5°	330.1	333.9	333.9	333.9	337.9	333.9	330.1	333.9	330.1	330.1	333.9
65°	217.5	221.4	221.4	217.5	225.2	217.5	221.4	225.2	229.0	225.2	229.0
67.5°	147.5	147.5	151.5	155.4	151.5	155.4	159.2	155.4	159.2	167.0	159.2
70°	108.7	112.7	112.7	108.7	104.9	108.7	104.9	116.5	116.5	116.5	124.2
72.5°	69.8	69.8	66.0	66.0	66.0	66.0	66.0	77.7	69.8	66.0	73.8
75°	38.8	42.7	42.7	31.0	35.0	42.7	31.0	35.0	46.7	38.8	46.7
77.5°	23.3	23.3	23.3	23.3	23.3	23.3	31.0	27.2	27.2	27.2	31.0
80°	19.3	15.5	15.5	11.7	15.5	15.5	15.5	23.3	19.3	19.3	23.3
82.5°	7.8	7.8	3.8	0.0	7.8	7.8	7.8	7.8	7.8	7.8	15.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	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: P248836

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	7944.9	7944.9	7941.1	7933.4	7917.8	7917.8	7913.9	7902.3	7894.6	7890.6	7890.6
5°	7906.1	7890.6	7875.1	7832.4	7832.4	7824.6	7801.4	7785.8	7778.1	7758.6	7750.9
7.5°	7871.3	7824.6	7797.4	7770.2	7735.4	7719.7	7692.6	7680.9	7653.7	7634.4	7622.7
10°	7785.8	7754.7	7719.7	7677.1	7649.9	7618.9	7587.7	7564.5	7529.5	7510.0	7494.5
12.5°	7727.6	7680.9	7649.9	7603.2	7556.7	7529.5	7486.9	7459.7	7424.7	7385.8	7362.5
15°	7673.2	7622.7	7580.0	7529.5	7479.0	7448.0	7397.5	7366.5	7316.0	7277.2	7250.0
17.5°	7591.7	7548.9	7502.4	7440.2	7393.7	7354.8	7300.3	7261.7	7215.0	7164.5	7137.3
20°	7506.2	7455.7	7409.2	7347.0	7300.3	7253.8	7199.5	7156.8	7102.3	7055.8	7024.8
22.5°	7393.7	7335.3	7296.5	7234.3	7180.0	7129.6	7079.1	7028.6	6978.1	6939.3	6904.3
25°	7230.5	7168.3	7125.6	7075.1	7024.8	6985.9	6923.8	6892.8	6842.2	6807.2	6772.2
27.5°	6997.4	6950.9	6912.1	6861.6	6818.9	6787.9	6741.2	6710.2	6667.4	6636.4	6609.2
30°	6655.9	6617.0	6582.0	6531.5	6500.5	6473.3	6430.5	6403.3	6372.3	6337.3	6329.7
32.5°	6197.6	6166.5	6131.6	6096.6	6073.3	6057.8	6022.8	6007.3	5976.3	5956.8	5937.4
35°	5506.3	5479.2	5459.8	5444.3	5436.5	5440.3	5432.7	5448.2	5455.8	5452.0	5455.8
37.5°	4601.7	4586.0	4593.8	4605.5	4644.3	4694.9	4741.4	4811.2	4857.9	4904.6	4947.2
40°	3592.0	3603.7	3634.7	3704.5	3805.5	3918.2	4023.1	4155.1	4287.1	4380.3	4465.6
42.5°	2710.5	2745.5	2823.0	2924.0	3075.6	3242.4	3405.6	3599.7	3759.0	3914.2	4023.1
45°	2038.7	2085.2	2186.2	2326.1	2493.0	2687.2	2893.0	3110.4	3300.8	3460.0	3580.3
47.5°	1588.3	1631.0	1732.0	1879.5	2085.2	2287.2	2500.8	2726.0	2924.0	3079.4	3184.2
50°	1254.2	1308.6	1397.9	1553.3	1759.2	1972.7	2194.1	2415.3	2601.8	2733.8	2827.0
52.5°	986.3	1036.9	1122.2	1285.4	1495.1	1708.6	1914.4	2131.9	2294.9	2423.1	2485.3
55°	765.0	811.6	900.8	1036.9	1234.9	1444.6	1650.3	1836.8	1988.2	2081.4	2139.7
57.5°	582.4	617.4	679.6	815.5	994.2	1188.2	1363.1	1549.4	1666.0	1732.0	1770.7
60°	442.7	469.9	535.9	640.8	803.8	970.8	1118.4	1258.2	1351.4	1405.8	1444.6
62.5°	333.9	365.1	411.6	500.9	625.1	761.1	885.3	990.2	1067.9	1102.9	1130.0
65°	229.0	252.4	287.4	357.2	462.1	559.1	656.3	734.0	784.5	823.3	838.8
67.5°	170.9	186.4	205.9	260.2	333.9	411.6	477.6	531.9	586.4	601.9	629.1
70°	128.2	139.9	159.2	198.0	240.7	295.1	349.6	380.6	419.4	446.6	454.4
72.5°	81.5	85.4	104.9	128.2	163.0	198.0	233.0	260.2	283.5	299.1	306.7
75°	46.7	69.8	69.8	93.2	116.5	132.0	155.4	174.7	186.4	198.0	198.0
77.5°	31.0	42.7	46.7	58.2	69.8	89.3	108.7	120.4	132.0	135.9	135.9
80°	27.2	31.0	31.0	42.7	50.5	66.0	77.7	81.5	89.3	93.2	101.0
82.5°	11.7	15.5	19.3	31.0	35.0	35.0	46.7	50.5	58.2	62.2	62.2
85°	3.8	7.8	7.8	11.7	19.3	23.3	27.2	31.0	35.0	35.0	38.8
87.5°	3.8	3.8	0.0	3.8	7.8	7.8	15.5	15.5	15.5	23.3	23.3
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: P248836

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	7882.9	7886.8	7871.3	7867.4	7859.6	7863.4	7871.3
5°	7739.2	7743.1	7727.6	7712.1	7712.1	7708.1	7712.1
7.5°	7603.2	7607.2	7583.9	7576.0	7560.5	7564.5	7564.5
10°	7467.4	7467.4	7432.5	7428.5	7416.9	7413.0	7413.0
12.5°	7335.3	7323.7	7296.5	7281.0	7288.8	7265.5	7265.5
15°	7218.8	7199.5	7164.5	7152.8	7133.5	7125.6	7125.6
17.5°	7098.5	7083.0	7051.9	7028.6	7005.3	7001.4	7005.3
20°	6981.9	6966.4	6927.6	6912.1	6892.8	6892.8	6884.9
22.5°	6865.4	6849.9	6815.1	6803.4	6776.2	6776.2	6780.1
25°	6745.1	6733.4	6694.6	6686.9	6683.0	6667.4	6675.2
27.5°	6582.0	6574.2	6543.2	6531.5	6516.0	6512.2	6519.9
30°	6283.0	6271.3	6248.1	6236.5	6209.3	6213.1	6220.8
32.5°	5910.2	5894.7	5863.6	5851.9	5828.7	5820.9	5824.7
35°	5444.3	5432.7	5405.5	5405.5	5382.1	5374.3	5382.1
37.5°	4970.6	4982.1	4970.6	4982.1	4970.6	4966.6	4970.6
40°	4524.0	4566.7	4574.3	4617.2	4601.7	4624.8	4621.0
42.5°	4096.7	4166.6	4193.9	4228.8	4221.1	4236.6	4248.3
45°	3665.7	3724.0	3751.2	3774.5	3778.4	3786.2	3790.0
47.5°	3257.9	3304.6	3308.4	3335.6	3331.8	3331.8	3343.4
50°	2877.5	2908.5	2916.2	2935.7	2920.2	2912.4	2916.2
52.5°	2524.1	2555.1	2547.3	2555.1	2535.8	2528.0	2531.8
55°	2162.9	2178.4	2178.4	2178.4	2155.2	2155.2	2155.2
57.5°	1794.0	1798.0	1790.2	1794.0	1790.2	1766.8	1763.0
60°	1456.3	1456.3	1452.3	1456.3	1444.6	1432.9	1432.9
62.5°	1137.7	1145.5	1161.0	1145.5	1137.7	1145.5	1133.9
65°	850.5	866.0	862.0	869.8	866.0	866.0	858.2
67.5°	640.8	644.6	648.5	652.4	652.4	652.4	652.4
70°	469.9	481.6	477.6	477.6	477.6	477.6	500.9
72.5°	314.6	330.1	326.2	333.9	333.9	341.7	333.9
75°	213.5	229.0	221.4	233.0	229.0	221.4	240.7
77.5°	143.7	151.5	155.4	159.2	155.4	151.5	155.4
80°	101.0	108.7	104.9	108.7	108.7	108.7	112.7
82.5°	62.2	73.8	69.8	73.8	69.8	73.8	73.8
85°	42.7	46.7	38.8	46.7	42.7	42.7	50.5
87.5°	27.2	23.3	23.3	27.2	23.3	27.2	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)