

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: P248827

Luminaire Tested: **LD8B150D010 ER8B150935 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248827
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: LD8B150D010 ER8B150935 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12826.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

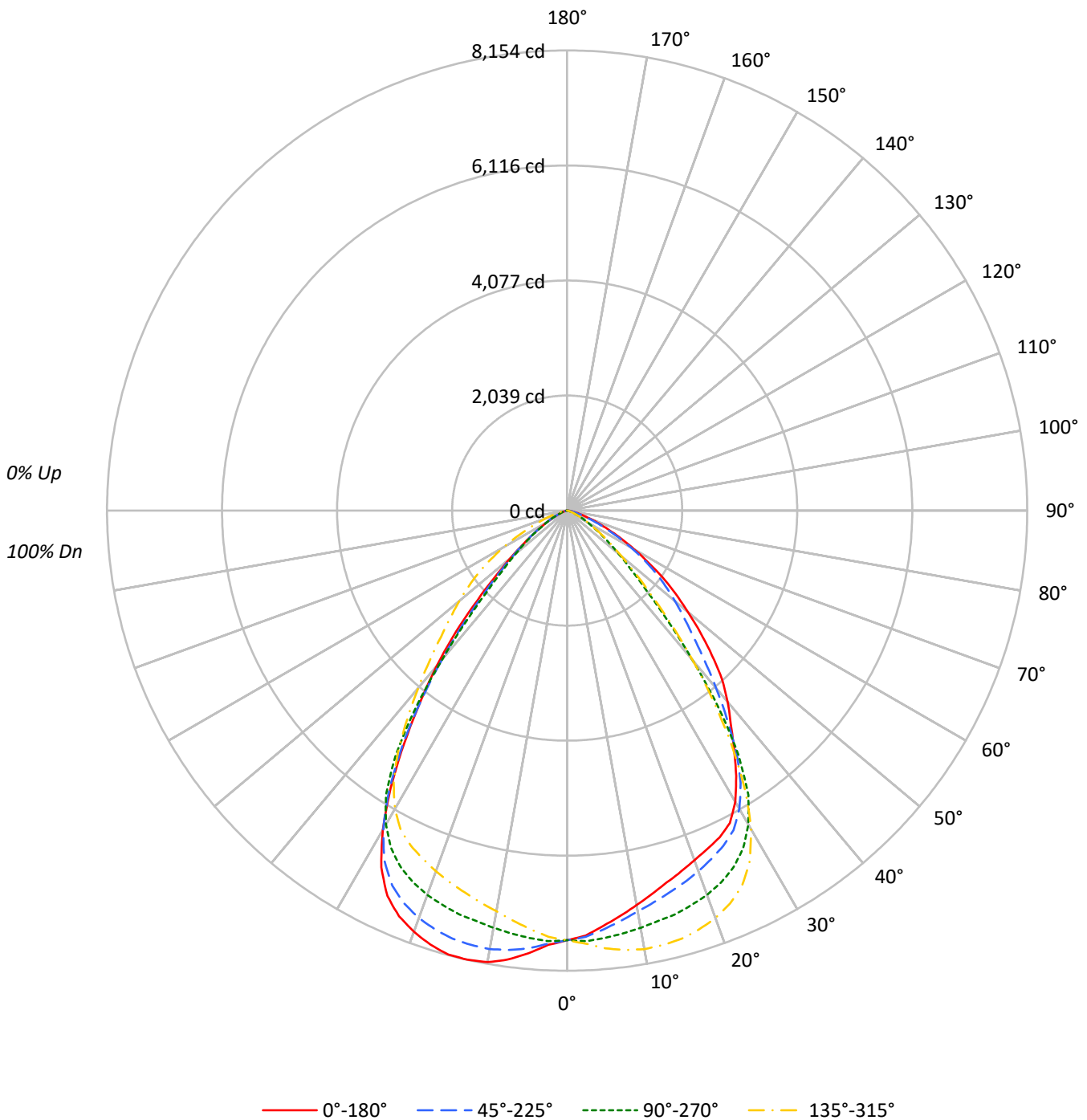
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	234800	234800	234800	234800
5°	228562	235350	243754	235350
10°	222240	235044	254369	235044
15°	217799	236439	259939	236439
20°	216319	237790	260606	237790
25°	217455	237315	256416	237315
30°	212077	228627	232736	228627
35°	193984	199443	189226	199443
40°	178100	138735	144878	138735
45°	158249	84637	97929	84637
50°	133945	56536	62787	56536
55°	110937	38579	40773	38579
60°	84615	25680	25909	25680
65°	59948	16001	14651	16001
70°	43240	10720	9728	10720
75°	27462	5326	4432	5326
80°	19161	3960	3285	3960
85°	17124	0	1309	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.7	5.7
10°-20°	2098.7	16.4
20°-30°	3177.9	24.8
30°-40°	3185.1	24.8
40°-50°	2000.1	15.6
50°-60°	1065.8	8.3
60°-70°	438.3	3.4
70°-80°	115.8	0.9
80°-90°	19.6	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°	6001.4	46.8
0°-40°	9186.5	71.6
0°-60°	12252.3	95.5
0°-90°	12826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12826.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7614	7614	7614	7614	7614	
5°	7384	7603	7875	7603	7384	696
15°	6822	7406	8142	7406	6822	1930
25°	6391	6975	7536	6975	6391	2931
35°	5153	5298	5027	5298	5153	3228
45°	3629	1941	2246	1941	3629	2791
55°	2064	718	758	718	2064	1840
65°	822	219	201	219	822	852
75°	230	45	37	45	230	261
85°	48	0	4	0	48	53
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°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7536.3	7528.8	7525.2	7532.7	7536.3	7551.2	7547.5	7554.9	7554.9	7558.7	7566.0
5°	7383.9	7380.1	7383.9	7383.9	7398.8	7413.6	7409.9	7421.1	7428.5	7447.1	7454.5
7.5°	7242.7	7242.7	7238.8	7253.7	7261.2	7283.5	7279.7	7298.4	7309.5	7328.1	7354.1
10°	7097.6	7097.6	7101.3	7112.4	7116.3	7149.6	7149.6	7175.6	7190.5	7209.2	7242.7
12.5°	6956.3	6956.3	6978.7	6971.2	6986.0	7012.0	7023.2	7049.2	7071.6	7108.8	7142.3
15°	6822.4	6822.4	6829.9	6848.5	6859.6	6893.1	6911.7	6941.5	6967.5	7004.7	7053.1
17.5°	6707.2	6703.5	6707.2	6729.5	6751.9	6781.6	6796.4	6833.6	6859.6	6908.0	6952.7
20°	6592.0	6599.5	6599.5	6618.0	6632.8	6670.0	6684.9	6725.9	6755.6	6800.1	6852.3
22.5°	6491.6	6487.9	6487.9	6513.9	6525.1	6558.5	6573.3	6610.5	6644.0	6681.2	6729.5
25°	6391.2	6383.7	6398.7	6402.4	6409.7	6446.9	6458.1	6484.1	6517.6	6551.1	6599.5
27.5°	6242.4	6235.1	6238.8	6253.6	6264.8	6294.5	6302.0	6328.0	6354.0	6383.7	6424.7
30°	5956.1	5948.8	5945.1	5971.1	5982.3	6004.5	6015.6	6060.3	6067.7	6101.2	6130.9
32.5°	5576.9	5573.2	5580.7	5602.9	5614.1	5643.9	5658.8	5684.8	5703.3	5722.0	5751.7
35°	5153.1	5145.6	5153.1	5175.5	5175.5	5201.5	5212.7	5223.7	5220.0	5223.7	5216.3
37.5°	4759.1	4755.2	4759.1	4770.1	4759.1	4770.1	4759.1	4736.7	4695.9	4651.2	4606.5
40°	4424.4	4428.1	4405.9	4420.7	4379.7	4372.4	4331.5	4275.6	4193.9	4104.7	3978.3
42.5°	4067.5	4056.3	4041.5	4048.8	4015.5	3989.3	3922.4	3851.9	3747.7	3599.1	3446.5
45°	3628.8	3625.1	3617.6	3613.9	3591.6	3565.6	3509.7	3428.0	3312.7	3160.3	2978.1
47.5°	3201.2	3190.0	3190.0	3193.7	3167.7	3164.0	3119.3	3048.8	2948.4	2799.6	2610.0
50°	2792.1	2788.4	2795.9	2810.8	2792.1	2784.8	2755.1	2706.7	2617.5	2491.1	2312.5
52.5°	2424.1	2420.4	2427.9	2446.4	2438.9	2446.4	2416.7	2379.5	2320.0	2197.3	2041.2
55°	2063.5	2063.5	2063.5	2085.7	2085.7	2085.7	2070.9	2048.7	1992.8	1903.6	1758.7
57.5°	1688.0	1691.6	1714.0	1717.7	1714.0	1721.5	1717.7	1695.3	1658.3	1595.1	1483.5
60°	1372.0	1372.0	1383.1	1394.3	1390.5	1394.3	1394.3	1383.1	1345.9	1293.9	1204.7
62.5°	1085.6	1096.8	1089.3	1096.8	1111.6	1096.8	1089.3	1082.0	1055.9	1022.4	948.0
65°	821.6	829.1	829.1	832.8	825.3	829.1	814.3	803.1	788.3	751.1	702.7
67.5°	624.7	624.7	624.7	624.7	620.9	617.2	613.5	602.3	576.3	561.5	509.3
70°	479.6	457.3	457.3	457.3	457.3	461.1	449.9	435.1	427.6	401.6	364.4
72.5°	319.7	327.2	319.7	319.7	312.3	316.0	301.2	293.7	286.3	271.5	249.1
75°	230.5	212.0	219.3	223.1	212.0	219.3	204.5	189.6	189.6	178.4	167.3
77.5°	148.7	145.1	148.7	152.4	148.7	145.1	137.6	130.1	130.1	126.4	115.2
80°	107.9	104.1	104.1	104.1	100.4	104.1	96.7	96.7	89.2	85.5	78.0
82.5°	70.7	70.7	66.9	70.7	66.9	70.7	59.5	59.5	59.5	55.7	48.4
85°	48.4	40.9	40.9	44.7	37.2	44.7	40.9	37.2	33.5	33.5	29.7
87.5°	22.3	26.0	22.3	26.0	22.3	22.3	26.0	22.3	22.3	14.8	14.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7577.2	7580.9	7580.9	7595.9	7603.2	7606.9	7606.9	7636.7	7625.6	7633.1	7640.4
5°	7469.5	7491.7	7499.2	7499.2	7540.0	7554.9	7569.7	7603.2	7606.9	7629.2	7655.3
7.5°	7365.2	7391.3	7406.3	7439.6	7465.6	7491.7	7536.3	7558.7	7580.9	7610.7	7644.1
10°	7264.9	7294.7	7324.4	7350.4	7391.3	7424.8	7454.5	7506.5	7532.7	7573.5	7618.1
12.5°	7168.3	7209.2	7235.2	7279.7	7324.4	7354.1	7398.8	7447.1	7488.0	7528.8	7580.9
15°	7082.7	7131.1	7160.8	7209.2	7257.5	7298.4	7346.7	7406.3	7436.0	7484.3	7532.7
17.5°	6989.7	7041.9	7079.1	7123.6	7183.1	7227.7	7268.7	7328.1	7365.2	7417.3	7473.1
20°	6893.1	6945.2	6989.7	7034.4	7093.9	7138.5	7186.8	7246.3	7287.2	7339.2	7383.9
22.5°	6777.9	6826.3	6874.5	6926.5	6986.0	7023.2	7079.1	7131.1	7175.6	7224.0	7268.7
25°	6629.2	6688.7	6725.9	6774.1	6822.4	6863.3	6922.8	6974.9	7012.0	7056.7	7097.6
27.5°	6454.4	6499.1	6528.8	6569.6	6618.0	6655.2	6699.7	6751.9	6789.1	6829.9	6859.6
30°	6156.9	6197.9	6223.9	6253.6	6302.0	6335.5	6372.7	6420.9	6446.9	6476.7	6502.7
32.5°	5766.5	5800.0	5814.9	5837.2	5870.7	5904.1	5933.9	5974.8	5985.9	6004.5	6004.5
35°	5201.5	5208.8	5205.2	5212.7	5227.5	5246.0	5272.0	5298.1	5312.9	5312.9	5301.9
37.5°	4539.6	4495.1	4446.7	4409.5	4398.4	4390.9	4405.9	4416.9	4431.9	4439.2	4420.7
40°	3851.9	3751.5	3643.6	3546.9	3480.0	3450.3	3439.1	3446.5	3446.5	3472.5	3472.5
42.5°	3260.7	3104.5	2944.7	2799.6	2702.9	2628.7	2595.2	2595.2	2598.8	2617.5	2628.7
45°	2769.9	2572.8	2386.9	2227.1	2093.2	1996.5	1952.0	1940.8	1937.1	1944.5	1970.5
47.5°	2394.4	2189.9	1996.5	1799.5	1658.3	1561.6	1520.7	1505.7	1490.9	1505.7	1509.5
50°	2100.7	1888.8	1684.3	1487.2	1338.4	1252.9	1200.9	1178.5	1174.8	1174.8	1182.3
52.5°	1832.9	1635.9	1431.5	1230.7	1074.5	992.7	944.4	933.2	918.4	933.2	933.2
55°	1580.1	1383.1	1182.3	992.7	862.5	777.1	732.4	717.6	710.1	721.3	721.3
57.5°	1305.1	1137.7	951.9	780.8	650.7	591.2	557.7	539.1	535.3	542.8	535.3
60°	1070.8	929.5	769.6	613.5	513.1	449.9	423.9	416.4	408.9	416.4	416.4
62.5°	847.7	728.8	598.5	479.6	394.1	349.5	319.7	319.7	316.0	316.0	319.7
65°	628.4	535.3	442.4	342.0	275.2	241.6	219.3	219.3	215.6	219.3	215.6
67.5°	457.3	394.1	319.7	249.1	197.1	178.4	163.6	152.4	159.9	152.4	148.7
70°	334.7	282.5	230.5	189.6	152.4	133.9	122.7	118.9	111.6	111.6	111.6
72.5°	223.1	189.6	156.1	122.7	100.4	81.7	78.0	70.7	63.2	66.9	74.4
75°	148.7	126.4	111.6	89.2	66.9	66.9	44.7	44.7	37.2	44.7	33.5
77.5°	104.1	85.5	66.9	55.7	44.7	40.9	29.7	29.7	26.0	26.0	26.0
80°	74.4	63.2	48.4	40.9	29.7	29.7	26.0	22.3	18.5	18.5	22.3
82.5°	44.7	33.5	33.5	29.7	18.5	14.8	11.2	14.8	7.5	7.5	7.5
85°	26.0	22.3	18.5	11.2	7.5	7.5	3.7	0.0	3.7	3.7	0.0
87.5°	14.8	7.5	7.5	3.7	0.0	3.7	3.7	0.0	0.0	0.0	7.5
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°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7659.1	7655.3	7662.7	7662.7	7685.1	7681.3	7692.4	7692.4	7685.1	7688.8	7703.6
5°	7685.1	7696.3	7718.5	7737.1	7770.5	7785.5	7804.0	7822.7	7826.3	7837.5	7848.7
7.5°	7685.1	7722.3	7748.3	7781.7	7826.3	7852.4	7893.2	7926.7	7941.6	7960.1	7982.4
10°	7670.1	7707.3	7755.6	7792.8	7848.7	7889.5	7930.4	7982.4	8004.8	8034.5	8064.3
12.5°	7640.4	7681.3	7733.3	7781.7	7844.9	7882.0	7934.1	7982.4	8016.0	8056.8	8090.3
15°	7595.9	7644.1	7692.4	7740.8	7807.7	7852.4	7900.7	7956.4	7989.9	8034.5	8064.3
17.5°	7525.2	7577.2	7621.9	7666.4	7729.6	7781.7	7826.3	7878.4	7911.9	7949.1	7989.9
20°	7439.6	7488.0	7536.3	7573.5	7636.7	7681.3	7729.6	7778.0	7804.0	7811.5	7874.7
22.5°	7331.9	7365.2	7402.4	7462.0	7499.2	7540.0	7584.7	7629.2	7655.3	7696.3	7718.5
25°	7153.3	7186.8	7227.7	7253.7	7298.4	7331.9	7376.4	7424.8	7439.6	7469.5	7491.7
27.5°	6904.3	6922.8	6941.5	6963.7	6989.7	7008.4	7034.4	7056.7	7071.6	7086.4	7101.3
30°	6510.1	6510.1	6510.1	6495.2	6506.4	6517.6	6521.3	6517.6	6517.6	6513.9	6513.9
32.5°	5989.6	5959.9	5926.4	5896.7	5885.6	5870.7	5863.2	5852.0	5833.5	5822.4	5826.0
35°	5286.9	5220.0	5179.2	5142.0	5112.3	5089.9	5078.8	5067.6	5063.9	5049.1	5034.1
37.5°	4409.5	4361.2	4331.5	4309.1	4283.1	4260.8	4264.5	4268.3	4279.3	4272.0	4275.6
40°	3480.0	3468.8	3480.0	3454.0	3446.5	3454.0	3472.5	3498.7	3513.5	3528.4	3554.4
42.5°	2647.2	2665.7	2691.9	2691.9	2702.9	2717.9	2740.1	2781.1	2803.3	2829.3	2859.1
45°	1992.8	2015.2	2048.7	2059.7	2067.2	2085.7	2111.9	2145.2	2160.1	2182.4	2208.4
47.5°	1535.5	1550.4	1568.9	1587.6	1606.1	1613.6	1639.6	1639.6	1658.3	1673.1	1680.5
50°	1197.2	1212.0	1226.9	1238.0	1245.5	1256.7	1264.1	1275.2	1278.9	1286.4	1290.1
52.5°	936.9	955.5	955.5	962.9	974.1	985.2	981.6	985.2	988.9	988.9	1000.1
55°	732.4	732.4	743.6	743.6	751.1	747.3	751.1	751.1	751.1	751.1	754.8
57.5°	546.5	550.3	561.5	554.0	550.3	557.7	550.3	557.7	554.0	561.5	550.3
60°	420.1	420.1	423.9	423.9	427.6	427.6	427.6	423.9	423.9	420.1	420.1
62.5°	316.0	319.7	323.5	319.7	319.7	319.7	316.0	316.0	312.3	308.5	308.5
65°	212.0	208.3	215.6	208.3	212.0	212.0	208.3	212.0	200.8	204.5	200.8
67.5°	152.4	148.7	145.1	148.7	145.1	141.3	141.3	145.1	148.7	137.6	137.6
70°	100.4	104.1	100.4	104.1	107.9	107.9	104.1	100.4	104.1	96.7	100.4
72.5°	63.2	63.2	63.2	63.2	63.2	66.9	66.9	66.9	59.5	59.5	55.7
75°	29.7	40.9	33.5	29.7	40.9	40.9	37.2	37.2	33.5	33.5	33.5
77.5°	29.7	22.3	22.3	22.3	22.3	22.3	22.3	22.3	18.5	22.3	18.5
80°	14.8	14.8	14.8	11.2	14.8	14.8	18.5	14.8	14.8	11.2	18.5
82.5°	7.5	7.5	7.5	0.0	3.7	7.5	7.5	3.7	7.5	7.5	3.7
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: P248827

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7699.9	7696.3	7699.9	7703.6	7699.9	7696.3	7699.9	7703.6	7688.8	7685.1	7692.4
5°	7863.5	7863.5	7870.9	7874.7	7870.9	7863.5	7863.5	7848.7	7837.5	7826.3	7822.7
7.5°	8004.8	8012.3	8019.6	8023.3	8019.6	8012.3	8004.8	7982.4	7960.1	7941.6	7926.7
10°	8090.3	8101.5	8116.3	8123.7	8116.3	8101.5	8090.3	8064.3	8034.5	8004.8	7982.4
12.5°	8127.5	8138.7	8157.2	8153.5	8157.2	8138.7	8127.5	8090.3	8056.8	8016.0	7982.4
15°	8101.5	8116.3	8134.9	8142.4	8134.9	8116.3	8101.5	8064.3	8034.5	7989.9	7956.4
17.5°	8019.6	8042.0	8053.1	8064.3	8053.1	8042.0	8019.6	7989.9	7949.1	7911.9	7878.4
20°	7908.1	7923.1	7937.9	7941.6	7937.9	7923.1	7908.1	7874.7	7811.5	7804.0	7778.0
22.5°	7748.3	7759.5	7792.8	7781.7	7792.8	7759.5	7748.3	7718.5	7696.3	7655.3	7629.2
25°	7517.7	7528.8	7532.7	7536.3	7532.7	7528.8	7517.7	7491.7	7469.5	7439.6	7424.8
27.5°	7119.9	7119.9	7127.3	7131.1	7127.3	7119.9	7119.9	7101.3	7086.4	7071.6	7056.7
30°	6517.6	6517.6	6517.6	6536.3	6517.6	6517.6	6517.6	6513.9	6513.9	6517.6	6517.6
32.5°	5822.4	5814.9	5807.5	5814.9	5807.5	5814.9	5822.4	5826.0	5822.4	5833.5	5852.0
35°	5034.1	5030.4	5041.6	5026.7	5041.6	5030.4	5034.1	5034.1	5049.1	5063.9	5067.6
37.5°	4279.3	4272.0	4286.8	4272.0	4286.8	4272.0	4279.3	4275.6	4272.0	4279.3	4268.3
40°	3561.9	3569.2	3569.2	3599.1	3569.2	3569.2	3561.9	3554.4	3528.4	3513.5	3498.7
42.5°	2874.0	2896.3	2888.8	2911.2	2888.8	2896.3	2874.0	2859.1	2829.3	2803.3	2781.1
45°	2223.3	2238.3	2238.3	2245.6	2238.3	2238.3	2223.3	2208.4	2182.4	2160.1	2145.2
47.5°	1706.5	1706.5	1706.5	1710.3	1706.5	1706.5	1706.5	1680.5	1673.1	1658.3	1639.6
50°	1297.6	1301.3	1305.1	1308.8	1305.1	1301.3	1297.6	1290.1	1286.4	1278.9	1275.2
52.5°	996.4	1000.1	992.7	1000.1	992.7	1000.1	996.4	1000.1	988.9	988.9	985.2
55°	754.8	751.1	754.8	758.4	754.8	751.1	754.8	754.8	751.1	751.1	751.1
57.5°	554.0	546.5	546.5	546.5	546.5	546.5	554.0	550.3	561.5	554.0	557.7
60°	412.7	416.4	416.4	420.1	416.4	416.4	412.7	420.1	420.1	423.9	423.9
62.5°	304.8	316.0	308.5	316.0	308.5	316.0	304.8	308.5	308.5	312.3	316.0
65°	197.1	197.1	197.1	200.8	197.1	197.1	197.1	200.8	204.5	200.8	212.0
67.5°	133.9	137.6	145.1	141.3	145.1	137.6	133.9	137.6	137.6	148.7	145.1
70°	107.9	96.7	96.7	107.9	96.7	96.7	107.9	100.4	96.7	104.1	100.4
72.5°	63.2	55.7	63.2	63.2	63.2	55.7	63.2	55.7	59.5	59.5	66.9
75°	33.5	29.7	26.0	37.2	26.0	29.7	33.5	33.5	33.5	33.5	37.2
77.5°	22.3	18.5	26.0	26.0	26.0	18.5	22.3	18.5	22.3	18.5	22.3
80°	11.2	14.8	11.2	18.5	11.2	14.8	11.2	18.5	11.2	14.8	14.8
82.5°	3.7	7.5	7.5	7.5	7.5	7.5	3.7	3.7	7.5	7.5	3.7
85°	0.0	7.5	3.7	3.7	3.7	7.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	0.0	0.0	3.7	0.0	0.0	3.7	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: P248827

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7692.4	7681.3	7685.1	7662.7	7662.7	7655.3	7659.1	7640.4	7633.1	7625.6	7636.7
5°	7804.0	7785.5	7770.5	7737.1	7718.5	7696.3	7685.1	7655.3	7629.2	7606.9	7603.2
7.5°	7893.2	7852.4	7826.3	7781.7	7748.3	7722.3	7685.1	7644.1	7610.7	7580.9	7558.7
10°	7930.4	7889.5	7848.7	7792.8	7755.6	7707.3	7670.1	7618.1	7573.5	7532.7	7506.5
12.5°	7934.1	7882.0	7844.9	7781.7	7733.3	7681.3	7640.4	7580.9	7528.8	7488.0	7447.1
15°	7900.7	7852.4	7807.7	7740.8	7692.4	7644.1	7595.9	7532.7	7484.3	7436.0	7406.3
17.5°	7826.3	7781.7	7729.6	7666.4	7621.9	7577.2	7525.2	7473.1	7417.3	7365.2	7328.1
20°	7729.6	7681.3	7636.7	7573.5	7536.3	7488.0	7439.6	7383.9	7339.2	7287.2	7246.3
22.5°	7584.7	7540.0	7499.2	7462.0	7402.4	7365.2	7331.9	7268.7	7224.0	7175.6	7131.1
25°	7376.4	7331.9	7298.4	7253.7	7227.7	7186.8	7153.3	7097.6	7056.7	7012.0	6974.9
27.5°	7034.4	7008.4	6989.7	6963.7	6941.5	6922.8	6904.3	6859.6	6829.9	6789.1	6751.9
30°	6521.3	6517.6	6506.4	6495.2	6510.1	6510.1	6510.1	6502.7	6476.7	6446.9	6420.9
32.5°	5863.2	5870.7	5885.6	5896.7	5926.4	5959.9	5989.6	6004.5	6004.5	5985.9	5974.8
35°	5078.8	5089.9	5112.3	5142.0	5179.2	5220.0	5286.9	5301.9	5312.9	5312.9	5298.1
37.5°	4264.5	4260.8	4283.1	4309.1	4331.5	4361.2	4409.5	4420.7	4439.2	4431.9	4416.9
40°	3472.5	3454.0	3446.5	3454.0	3480.0	3468.8	3480.0	3472.5	3472.5	3446.5	3446.5
42.5°	2740.1	2717.9	2702.9	2691.9	2691.9	2665.7	2647.2	2628.7	2617.5	2598.8	2595.2
45°	2111.9	2085.7	2067.2	2059.7	2048.7	2015.2	1992.8	1970.5	1944.5	1937.1	1940.8
47.5°	1639.6	1613.6	1606.1	1587.6	1568.9	1550.4	1535.5	1509.5	1505.7	1490.9	1505.7
50°	1264.1	1256.7	1245.5	1238.0	1226.9	1212.0	1197.2	1182.3	1174.8	1174.8	1178.5
52.5°	981.6	985.2	974.1	962.9	955.5	955.5	936.9	933.2	933.2	918.4	933.2
55°	751.1	747.3	751.1	743.6	743.6	732.4	732.4	721.3	721.3	710.1	717.6
57.5°	550.3	557.7	550.3	554.0	561.5	550.3	546.5	535.3	542.8	535.3	539.1
60°	427.6	427.6	427.6	423.9	423.9	420.1	420.1	416.4	416.4	408.9	416.4
62.5°	316.0	319.7	319.7	319.7	323.5	319.7	316.0	319.7	316.0	316.0	319.7
65°	208.3	212.0	212.0	208.3	215.6	208.3	212.0	215.6	219.3	215.6	219.3
67.5°	141.3	141.3	145.1	148.7	145.1	148.7	152.4	148.7	152.4	159.9	152.4
70°	104.1	107.9	107.9	104.1	100.4	104.1	100.4	111.6	111.6	111.6	118.9
72.5°	66.9	66.9	63.2	63.2	63.2	63.2	63.2	74.4	66.9	63.2	70.7
75°	37.2	40.9	40.9	29.7	33.5	40.9	29.7	33.5	44.7	37.2	44.7
77.5°	22.3	22.3	22.3	22.3	22.3	22.3	29.7	26.0	26.0	26.0	29.7
80°	18.5	14.8	14.8	11.2	14.8	14.8	14.8	22.3	18.5	18.5	22.3
82.5°	7.5	7.5	3.7	0.0	7.5	7.5	7.5	7.5	7.5	7.5	14.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	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: P248827

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7606.9	7606.9	7603.2	7595.9	7580.9	7580.9	7577.2	7566.0	7558.7	7554.9	7554.9
5°	7569.7	7554.9	7540.0	7499.2	7499.2	7491.7	7469.5	7454.5	7447.1	7428.5	7421.1
7.5°	7536.3	7491.7	7465.6	7439.6	7406.3	7391.3	7365.2	7354.1	7328.1	7309.5	7298.4
10°	7454.5	7424.8	7391.3	7350.4	7324.4	7294.7	7264.9	7242.7	7209.2	7190.5	7175.6
12.5°	7398.8	7354.1	7324.4	7279.7	7235.2	7209.2	7168.3	7142.3	7108.8	7071.6	7049.2
15°	7346.7	7298.4	7257.5	7209.2	7160.8	7131.1	7082.7	7053.1	7004.7	6967.5	6941.5
17.5°	7268.7	7227.7	7183.1	7123.6	7079.1	7041.9	6989.7	6952.7	6908.0	6859.6	6833.6
20°	7186.8	7138.5	7093.9	7034.4	6989.7	6945.2	6893.1	6852.3	6800.1	6755.6	6725.9
22.5°	7079.1	7023.2	6986.0	6926.5	6874.5	6826.3	6777.9	6729.5	6681.2	6644.0	6610.5
25°	6922.8	6863.3	6822.4	6774.1	6725.9	6688.7	6629.2	6599.5	6551.1	6517.6	6484.1
27.5°	6699.7	6655.2	6618.0	6569.6	6528.8	6499.1	6454.4	6424.7	6383.7	6354.0	6328.0
30°	6372.7	6335.5	6302.0	6253.6	6223.9	6197.9	6156.9	6130.9	6101.2	6067.7	6060.3
32.5°	5933.9	5904.1	5870.7	5837.2	5814.9	5800.0	5766.5	5751.7	5722.0	5703.3	5684.8
35°	5272.0	5246.0	5227.5	5212.7	5205.2	5208.8	5201.5	5216.3	5223.7	5220.0	5223.7
37.5°	4405.9	4390.9	4398.4	4409.5	4446.7	4495.1	4539.6	4606.5	4651.2	4695.9	4736.7
40°	3439.1	3450.3	3480.0	3546.9	3643.6	3751.5	3851.9	3978.3	4104.7	4193.9	4275.6
42.5°	2595.2	2628.7	2702.9	2799.6	2944.7	3104.5	3260.7	3446.5	3599.1	3747.7	3851.9
45°	1952.0	1996.5	2093.2	2227.1	2386.9	2572.8	2769.9	2978.1	3160.3	3312.7	3428.0
47.5°	1520.7	1561.6	1658.3	1799.5	1996.5	2189.9	2394.4	2610.0	2799.6	2948.4	3048.8
50°	1200.9	1252.9	1338.4	1487.2	1684.3	1888.8	2100.7	2312.5	2491.1	2617.5	2706.7
52.5°	944.4	992.7	1074.5	1230.7	1431.5	1635.9	1832.9	2041.2	2197.3	2320.0	2379.5
55°	732.4	777.1	862.5	992.7	1182.3	1383.1	1580.1	1758.7	1903.6	1992.8	2048.7
57.5°	557.7	591.2	650.7	780.8	951.9	1137.7	1305.1	1483.5	1595.1	1658.3	1695.3
60°	423.9	449.9	513.1	613.5	769.6	929.5	1070.8	1204.7	1293.9	1345.9	1383.1
62.5°	319.7	349.5	394.1	479.6	598.5	728.8	847.7	948.0	1022.4	1055.9	1082.0
65°	219.3	241.6	275.2	342.0	442.4	535.3	628.4	702.7	751.1	788.3	803.1
67.5°	163.6	178.4	197.1	249.1	319.7	394.1	457.3	509.3	561.5	576.3	602.3
70°	122.7	133.9	152.4	189.6	230.5	282.5	334.7	364.4	401.6	427.6	435.1
72.5°	78.0	81.7	100.4	122.7	156.1	189.6	223.1	249.1	271.5	286.3	293.7
75°	44.7	66.9	66.9	89.2	111.6	126.4	148.7	167.3	178.4	189.6	189.6
77.5°	29.7	40.9	44.7	55.7	66.9	85.5	104.1	115.2	126.4	130.1	130.1
80°	26.0	29.7	29.7	40.9	48.4	63.2	74.4	78.0	85.5	89.2	96.7
82.5°	11.2	14.8	18.5	29.7	33.5	33.5	44.7	48.4	55.7	59.5	59.5
85°	3.7	7.5	7.5	11.2	18.5	22.3	26.0	29.7	33.5	33.5	37.2
87.5°	3.7	3.7	0.0	3.7	7.5	7.5	14.8	14.8	14.8	22.3	22.3
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: P248827

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4	7614.4
2.5°	7547.5	7551.2	7536.3	7532.7	7525.2	7528.8	7536.3
5°	7409.9	7413.6	7398.8	7383.9	7383.9	7380.1	7383.9
7.5°	7279.7	7283.5	7261.2	7253.7	7238.8	7242.7	7242.7
10°	7149.6	7149.6	7116.3	7112.4	7101.3	7097.6	7097.6
12.5°	7023.2	7012.0	6986.0	6971.2	6978.7	6956.3	6956.3
15°	6911.7	6893.1	6859.6	6848.5	6829.9	6822.4	6822.4
17.5°	6796.4	6781.6	6751.9	6729.5	6707.2	6703.5	6707.2
20°	6684.9	6670.0	6632.8	6618.0	6599.5	6599.5	6592.0
22.5°	6573.3	6558.5	6525.1	6513.9	6487.9	6487.9	6491.6
25°	6458.1	6446.9	6409.7	6402.4	6398.7	6383.7	6391.2
27.5°	6302.0	6294.5	6264.8	6253.6	6238.8	6235.1	6242.4
30°	6015.6	6004.5	5982.3	5971.1	5945.1	5948.8	5956.1
32.5°	5658.8	5643.9	5614.1	5602.9	5580.7	5573.2	5576.9
35°	5212.7	5201.5	5175.5	5175.5	5153.1	5145.6	5153.1
37.5°	4759.1	4770.1	4759.1	4770.1	4759.1	4755.2	4759.1
40°	4331.5	4372.4	4379.7	4420.7	4405.9	4428.1	4424.4
42.5°	3922.4	3989.3	4015.5	4048.8	4041.5	4056.3	4067.5
45°	3509.7	3565.6	3591.6	3613.9	3617.6	3625.1	3628.8
47.5°	3119.3	3164.0	3167.7	3193.7	3190.0	3190.0	3201.2
50°	2755.1	2784.8	2792.1	2810.8	2795.9	2788.4	2792.1
52.5°	2416.7	2446.4	2438.9	2446.4	2427.9	2420.4	2424.1
55°	2070.9	2085.7	2085.7	2085.7	2063.5	2063.5	2063.5
57.5°	1717.7	1721.5	1714.0	1717.7	1714.0	1691.6	1688.0
60°	1394.3	1394.3	1390.5	1394.3	1383.1	1372.0	1372.0
62.5°	1089.3	1096.8	1111.6	1096.8	1089.3	1096.8	1085.6
65°	814.3	829.1	825.3	832.8	829.1	829.1	821.6
67.5°	613.5	617.2	620.9	624.7	624.7	624.7	624.7
70°	449.9	461.1	457.3	457.3	457.3	457.3	479.6
72.5°	301.2	316.0	312.3	319.7	319.7	327.2	319.7
75°	204.5	219.3	212.0	223.1	219.3	212.0	230.5
77.5°	137.6	145.1	148.7	152.4	148.7	145.1	148.7
80°	96.7	104.1	100.4	104.1	104.1	104.1	107.9
82.5°	59.5	70.7	66.9	70.7	66.9	70.7	70.7
85°	40.9	44.7	37.2	44.7	40.9	40.9	48.4
87.5°	26.0	22.3	22.3	26.0	22.3	26.0	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)