

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: P248611

Luminaire Tested: **LD8B150D010 ER8B150935 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248611  
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 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13860.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

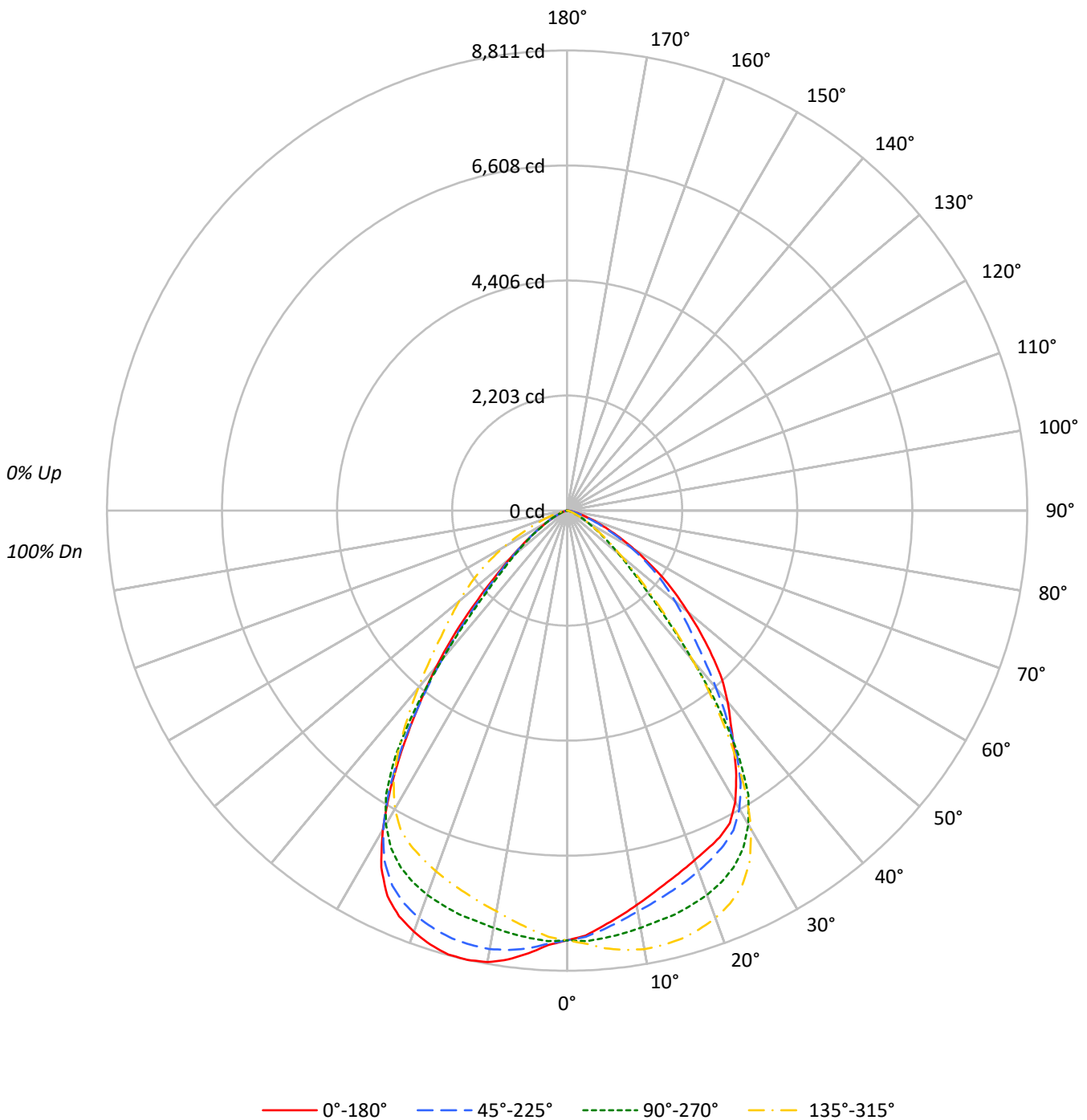
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	253727	253727	253727	253727
5°	246989	254325	263404	254325
10°	240157	253994	274876	253994
15°	235357	255498	280894	255498
20°	233757	256960	281615	256960
25°	234984	256447	277089	256447
30°	229175	247057	251497	247057
35°	209625	215521	204483	215521
40°	192458	149918	156556	149918
45°	171004	91457	105826	91457
50°	144743	61093	67848	61093
55°	119883	41687	44063	41687
60°	91436	27753	27993	27753
65°	64786	17293	15833	17293
70°	46730	11585	10513	11585
75°	29678	5755	4790	5755
80°	20706	4280	3552	4280
85°	18504	0	1415	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.2	5.7
10°-20°	2267.9	16.4
20°-30°	3434.1	24.8
30°-40°	3441.8	24.8
40°-50°	2161.3	15.6
50°-60°	1151.7	8.3
60°-70°	473.6	3.4
70°-80°	125.1	0.9
80°-90°	21.2	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°	6485.2	46.8
0°-40°	9927.0	71.6
0°-60°	13240.1	95.5
0°-90°	13860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13860.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8228	8228	8228	8228	8228	
5°	7979	8216	8510	8216	7979	752
15°	7372	8003	8799	8003	7372	2085
25°	6906	7537	8144	7537	6906	3168
35°	5569	5725	5432	5725	5569	3489
45°	3921	2097	2427	2097	3921	3016
55°	2230	775	820	775	2230	1988
65°	888	237	217	237	888	921
75°	249	48	40	48	249	282
85°	52	0	4	0	52	57
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°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8143.9	8135.8	8131.8	8139.9	8143.9	8159.9	8156.0	8163.9	8163.9	8168.0	8176.0
5°	7979.2	7975.1	7979.2	7979.2	7995.2	8011.3	8007.3	8019.4	8027.3	8047.5	8055.4
7.5°	7826.6	7826.6	7822.4	7838.5	7846.6	7870.7	7866.6	7886.8	7898.8	7918.8	7946.9
10°	7669.8	7669.8	7673.8	7685.8	7690.0	7726.0	7726.0	7754.1	7770.2	7790.3	7826.6
12.5°	7517.1	7517.1	7541.3	7533.2	7549.2	7577.3	7589.4	7617.5	7641.7	7681.9	7718.1
15°	7372.4	7372.4	7380.5	7400.6	7412.6	7448.8	7468.9	7501.1	7529.2	7569.4	7621.7
17.5°	7247.9	7243.9	7247.9	7272.1	7296.2	7328.3	7344.3	7384.5	7412.6	7464.9	7513.2
20°	7123.4	7131.5	7131.5	7151.5	7167.5	7207.7	7223.8	7268.1	7300.2	7348.3	7404.7
22.5°	7014.9	7010.9	7010.9	7039.1	7051.1	7087.2	7103.2	7143.4	7179.6	7219.8	7272.1
25°	6906.4	6898.3	6914.5	6918.5	6926.4	6966.6	6978.7	7006.8	7043.0	7079.2	7131.5
27.5°	6745.7	6737.7	6741.7	6757.8	6769.8	6801.9	6810.0	6838.1	6866.2	6898.3	6942.6
30°	6436.3	6428.3	6424.4	6452.5	6464.6	6488.5	6500.6	6548.9	6556.8	6593.0	6625.1
32.5°	6026.5	6022.5	6030.6	6054.6	6066.7	6098.9	6115.0	6143.1	6163.1	6183.3	6215.3
35°	5568.6	5560.5	5568.6	5592.7	5592.7	5620.8	5632.9	5644.8	5640.8	5644.8	5636.9
37.5°	5142.7	5138.6	5142.7	5154.6	5142.7	5154.6	5142.7	5118.6	5074.4	5026.1	4977.9
40°	4781.1	4785.0	4761.1	4777.1	4732.8	4724.8	4680.7	4620.3	4532.0	4435.6	4299.0
42.5°	4395.4	4383.3	4367.3	4375.2	4339.2	4310.9	4238.6	4162.4	4049.8	3889.2	3724.3
45°	3921.3	3917.3	3909.2	3905.3	3881.1	3853.0	3792.6	3704.3	3579.8	3415.1	3218.1
47.5°	3459.2	3447.2	3447.2	3451.1	3423.0	3419.1	3370.8	3294.5	3186.1	3025.3	2820.4
50°	3017.2	3013.2	3021.3	3037.4	3017.2	3009.3	2977.2	2924.9	2828.5	2691.9	2498.9
52.5°	2619.5	2615.5	2623.6	2643.6	2635.5	2643.6	2611.6	2571.4	2507.0	2374.4	2205.7
55°	2229.9	2229.9	2229.9	2253.9	2253.9	2253.9	2237.8	2213.8	2153.5	2057.1	1900.5
57.5°	1824.1	1828.0	1852.2	1856.1	1852.2	1860.3	1856.1	1832.0	1792.0	1723.7	1603.1
60°	1482.6	1482.6	1494.6	1506.7	1502.6	1506.7	1506.7	1494.6	1454.4	1398.2	1301.8
62.5°	1173.1	1185.2	1177.1	1185.2	1201.3	1185.2	1177.1	1169.2	1141.1	1104.8	1024.5
65°	887.9	896.0	896.0	900.0	891.9	896.0	879.9	867.9	851.8	811.6	759.4
67.5°	675.0	675.0	675.0	675.0	670.9	666.9	663.0	650.9	622.8	606.7	550.4
70°	518.3	494.1	494.1	494.1	494.1	498.3	486.2	470.2	462.0	433.9	393.8
72.5°	345.5	353.6	345.5	345.5	337.5	341.5	325.5	317.3	309.4	293.4	269.2
75°	249.1	229.0	237.0	241.1	229.0	237.0	220.9	204.9	204.9	192.8	180.8
77.5°	160.7	156.8	160.7	164.7	160.7	156.8	148.7	140.6	140.6	136.6	124.5
80°	116.6	112.5	112.5	112.5	108.5	112.5	104.5	104.5	96.4	92.4	84.3
82.5°	76.4	76.4	72.3	76.4	72.3	76.4	64.3	64.3	64.3	60.2	52.3
85°	52.3	44.2	44.2	48.3	40.2	48.3	44.2	40.2	36.2	36.2	32.1
87.5°	24.1	28.1	24.1	28.1	24.1	24.1	28.1	24.1	24.1	16.0	16.0
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°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8188.1	8192.0	8192.0	8208.2	8216.2	8220.1	8220.1	8252.4	8240.3	8248.4	8256.4
5°	8071.6	8095.6	8103.7	8103.7	8147.9	8163.9	8180.0	8216.2	8220.1	8244.3	8272.4
7.5°	7959.0	7987.1	8003.3	8039.4	8067.5	8095.6	8143.9	8168.0	8192.0	8224.3	8260.3
10°	7850.5	7882.8	7914.9	7943.0	7987.1	8023.3	8055.4	8111.7	8139.9	8184.1	8232.2
12.5°	7746.2	7790.3	7818.5	7866.6	7914.9	7946.9	7995.2	8047.5	8091.6	8135.8	8192.0
15°	7653.7	7706.0	7738.1	7790.3	7842.6	7886.8	7939.0	8003.3	8035.4	8087.7	8139.9
17.5°	7553.2	7609.6	7649.8	7697.9	7762.2	7810.3	7854.7	7918.8	7959.0	8015.2	8075.6
20°	7448.8	7505.1	7553.2	7601.5	7665.8	7713.9	7766.2	7830.5	7874.7	7930.9	7979.2
22.5°	7324.3	7376.6	7428.7	7484.9	7549.2	7589.4	7649.8	7706.0	7754.1	7806.4	7854.7
25°	7163.6	7227.9	7268.1	7320.2	7372.4	7416.6	7480.9	7537.2	7577.3	7625.6	7669.8
27.5°	6974.7	7023.0	7055.1	7099.2	7151.5	7191.7	7239.8	7296.2	7336.4	7380.5	7412.6
30°	6653.2	6697.6	6725.7	6757.8	6810.0	6846.2	6886.4	6938.5	6966.6	6998.9	7027.0
32.5°	6231.4	6267.6	6283.6	6307.8	6344.0	6380.0	6412.3	6456.4	6468.5	6488.5	6488.5
35°	5620.8	5628.8	5624.8	5632.9	5648.9	5668.9	5697.1	5725.2	5741.2	5741.2	5729.3
37.5°	4905.6	4857.5	4805.2	4765.0	4753.0	4744.8	4761.1	4773.0	4789.2	4797.1	4777.1
40°	4162.4	4053.9	3937.3	3832.8	3760.6	3728.5	3716.4	3724.3	3724.3	3752.5	3752.5
42.5°	3523.6	3354.7	3182.1	3025.3	2920.8	2840.6	2804.4	2804.4	2808.3	2828.5	2840.6
45°	2993.2	2780.2	2579.3	2406.7	2262.0	2157.4	2109.3	2097.2	2093.3	2101.2	2129.3
47.5°	2587.4	2366.5	2157.4	1944.6	1792.0	1687.5	1643.3	1627.1	1611.1	1627.1	1631.2
50°	2270.1	2041.0	1820.1	1607.1	1446.3	1353.9	1297.7	1273.5	1269.6	1269.6	1277.7
52.5°	1980.7	1767.8	1546.9	1329.9	1161.1	1072.8	1020.5	1008.4	992.4	1008.4	1008.4
55°	1707.5	1494.6	1277.7	1072.8	932.0	839.8	791.5	775.4	767.3	779.4	779.4
57.5°	1410.3	1229.4	1028.6	843.7	703.2	638.8	602.6	582.6	578.5	586.6	578.5
60°	1157.1	1004.5	831.7	663.0	554.5	486.2	458.1	450.0	441.9	450.0	450.0
62.5°	916.0	787.5	646.8	518.3	425.8	377.7	345.5	345.5	341.5	341.5	345.5
65°	679.0	578.5	478.1	369.6	297.3	261.1	237.0	237.0	233.0	237.0	233.0
67.5°	494.1	425.8	345.5	269.2	213.0	192.8	176.8	164.7	172.8	164.7	160.7
70°	361.7	305.3	249.1	204.9	164.7	144.7	132.6	128.5	120.6	120.6	120.6
72.5°	241.1	204.9	168.7	132.6	108.5	88.3	84.3	76.4	68.3	72.3	80.4
75°	160.7	136.6	120.6	96.4	72.3	72.3	48.3	48.3	40.2	48.3	36.2
77.5°	112.5	92.4	72.3	60.2	48.3	44.2	32.1	32.1	28.1	28.1	28.1
80°	80.4	68.3	52.3	44.2	32.1	32.1	28.1	24.1	20.0	20.0	24.1
82.5°	48.3	36.2	36.2	32.1	20.0	16.0	12.1	16.0	8.1	8.1	8.1
85°	28.1	24.1	20.0	12.1	8.1	8.1	4.0	0.0	4.0	4.0	0.0
87.5°	16.0	8.1	8.1	4.0	0.0	4.0	4.0	0.0	0.0	0.0	8.1
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°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8276.5	8272.4	8280.5	8280.5	8304.6	8300.5	8312.6	8312.6	8304.6	8308.6	8324.7
5°	8304.6	8316.7	8340.7	8360.9	8396.9	8413.1	8433.1	8453.3	8457.3	8469.4	8481.4
7.5°	8304.6	8344.8	8372.9	8409.0	8457.3	8485.4	8529.6	8565.8	8581.8	8601.8	8626.0
10°	8288.4	8328.6	8380.9	8421.1	8481.4	8525.6	8569.7	8626.0	8650.1	8682.2	8714.4
12.5°	8256.4	8300.5	8356.7	8409.0	8477.3	8517.5	8573.7	8626.0	8662.2	8706.3	8742.5
15°	8208.2	8260.3	8312.6	8364.8	8437.1	8485.4	8537.7	8597.8	8634.1	8682.2	8714.4
17.5°	8131.8	8188.1	8236.3	8284.5	8352.8	8409.0	8457.3	8513.5	8549.7	8589.9	8634.1
20°	8039.4	8091.6	8143.9	8184.1	8252.4	8300.5	8352.8	8405.0	8433.1	8441.2	8509.5
22.5°	7923.0	7959.0	7999.2	8063.5	8103.7	8147.9	8196.2	8244.3	8272.4	8316.7	8340.7
25°	7730.0	7766.2	7810.3	7838.5	7886.8	7923.0	7971.1	8023.3	8039.4	8071.6	8095.6
27.5°	7460.9	7480.9	7501.1	7525.1	7553.2	7573.4	7601.5	7625.6	7641.7	7657.7	7673.8
30°	7034.9	7034.9	7034.9	7018.9	7031.0	7043.0	7047.0	7043.0	7043.0	7039.1	7039.1
32.5°	6472.5	6440.4	6404.2	6372.1	6360.0	6344.0	6335.9	6323.8	6303.8	6291.7	6295.7
35°	5713.1	5640.8	5596.7	5556.5	5524.4	5500.3	5488.2	5476.1	5472.2	5456.1	5439.9
37.5°	4765.0	4712.8	4680.7	4656.5	4628.4	4604.3	4608.3	4612.4	4624.3	4616.4	4620.3
40°	3760.6	3748.5	3760.6	3732.4	3724.3	3732.4	3752.5	3780.7	3796.8	3812.8	3840.9
42.5°	2860.6	2880.6	2908.9	2908.9	2920.8	2937.0	2961.0	3005.3	3029.3	3057.4	3089.6
45°	2153.5	2177.6	2213.8	2225.7	2233.8	2253.9	2282.1	2318.2	2334.2	2358.4	2386.5
47.5°	1659.3	1675.4	1695.4	1715.6	1735.6	1743.7	1771.8	1771.8	1792.0	1808.0	1815.9
50°	1293.7	1309.7	1325.8	1337.9	1346.0	1358.0	1366.0	1378.0	1382.0	1390.1	1394.1
52.5°	1012.4	1032.6	1032.6	1040.5	1052.6	1064.7	1060.7	1064.7	1068.6	1068.6	1080.7
55°	791.5	791.5	803.5	803.5	811.6	807.5	811.6	811.6	811.6	811.6	815.6
57.5°	590.5	594.7	606.7	598.6	594.7	602.6	594.7	602.6	598.6	606.7	594.7
60°	453.9	453.9	458.1	458.1	462.0	462.0	462.0	458.1	458.1	453.9	453.9
62.5°	341.5	345.5	349.6	345.5	345.5	345.5	341.5	341.5	337.5	333.4	333.4
65°	229.0	225.1	233.0	225.1	229.0	229.0	225.1	229.0	217.0	220.9	217.0
67.5°	164.7	160.7	156.8	160.7	156.8	152.6	152.6	156.8	160.7	148.7	148.7
70°	108.5	112.5	108.5	112.5	116.6	116.6	112.5	108.5	112.5	104.5	108.5
72.5°	68.3	68.3	68.3	68.3	68.3	72.3	72.3	72.3	64.3	64.3	60.2
75°	32.1	44.2	36.2	32.1	44.2	44.2	40.2	40.2	36.2	36.2	36.2
77.5°	32.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	20.0	24.1	20.0
80°	16.0	16.0	16.0	12.1	16.0	16.0	20.0	16.0	16.0	12.1	20.0
82.5°	8.1	8.1	8.1	0.0	4.0	8.1	8.1	4.0	8.1	8.1	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: P248611

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8320.7	8316.7	8320.7	8324.7	8320.7	8316.7	8320.7	8324.7	8308.6	8304.6	8312.6
5°	8497.5	8497.5	8505.4	8509.5	8505.4	8497.5	8497.5	8481.4	8469.4	8457.3	8453.3
7.5°	8650.1	8658.2	8666.1	8670.1	8666.1	8658.2	8650.1	8626.0	8601.8	8581.8	8565.8
10°	8742.5	8754.6	8770.7	8778.6	8770.7	8754.6	8742.5	8714.4	8682.2	8650.1	8626.0
12.5°	8782.7	8794.8	8814.8	8810.8	8814.8	8794.8	8782.7	8742.5	8706.3	8662.2	8626.0
15°	8754.6	8770.7	8790.7	8798.8	8790.7	8770.7	8754.6	8714.4	8682.2	8634.1	8597.8
17.5°	8666.1	8690.3	8702.4	8714.4	8702.4	8690.3	8666.1	8634.1	8589.9	8549.7	8513.5
20°	8545.6	8561.8	8577.8	8581.8	8577.8	8561.8	8545.6	8509.5	8441.2	8433.1	8405.0
22.5°	8372.9	8385.0	8421.1	8409.0	8421.1	8385.0	8372.9	8340.7	8316.7	8272.4	8244.3
25°	8123.7	8135.8	8139.9	8143.9	8139.9	8135.8	8123.7	8095.6	8071.6	8039.4	8023.3
27.5°	7693.9	7693.9	7701.9	7706.0	7701.9	7693.9	7693.9	7673.8	7657.7	7641.7	7625.6
30°	7043.0	7043.0	7043.0	7063.2	7043.0	7043.0	7043.0	7039.1	7039.1	7043.0	7043.0
32.5°	6291.7	6283.6	6275.7	6283.6	6275.7	6283.6	6291.7	6295.7	6291.7	6303.8	6323.8
35°	5439.9	5435.9	5448.0	5432.0	5448.0	5435.9	5439.9	5439.9	5456.1	5472.2	5476.1
37.5°	4624.3	4616.4	4632.4	4616.4	4632.4	4616.4	4624.3	4620.3	4616.4	4624.3	4612.4
40°	3849.0	3857.0	3857.0	3889.2	3857.0	3857.0	3849.0	3840.9	3812.8	3796.8	3780.7
42.5°	3105.7	3129.8	3121.7	3145.9	3121.7	3129.8	3105.7	3089.6	3057.4	3029.3	3005.3
45°	2402.5	2418.7	2418.7	2426.7	2418.7	2418.7	2402.5	2386.5	2358.4	2334.2	2318.2
47.5°	1844.1	1844.1	1844.1	1848.2	1844.1	1844.1	1844.1	1815.9	1808.0	1792.0	1771.8
50°	1402.2	1406.2	1410.3	1414.3	1410.3	1406.2	1402.2	1394.1	1390.1	1382.0	1378.0
52.5°	1076.7	1080.7	1072.8	1080.7	1072.8	1080.7	1076.7	1080.7	1068.6	1068.6	1064.7
55°	815.6	811.6	815.6	819.6	815.6	811.6	815.6	815.6	811.6	811.6	811.6
57.5°	598.6	590.5	590.5	590.5	590.5	590.5	598.6	594.7	606.7	598.6	602.6
60°	446.0	450.0	450.0	453.9	450.0	450.0	446.0	453.9	453.9	458.1	458.1
62.5°	329.4	341.5	333.4	341.5	333.4	341.5	329.4	333.4	333.4	337.5	341.5
65°	213.0	213.0	213.0	217.0	213.0	213.0	213.0	217.0	220.9	217.0	229.0
67.5°	144.7	148.7	156.8	152.6	156.8	148.7	144.7	148.7	148.7	160.7	156.8
70°	116.6	104.5	104.5	116.6	104.5	104.5	116.6	108.5	104.5	112.5	108.5
72.5°	68.3	60.2	68.3	68.3	68.3	60.2	68.3	60.2	64.3	64.3	72.3
75°	36.2	32.1	28.1	40.2	28.1	32.1	36.2	36.2	36.2	36.2	40.2
77.5°	24.1	20.0	28.1	28.1	28.1	20.0	24.1	20.0	24.1	20.0	24.1
80°	12.1	16.0	12.1	20.0	12.1	16.0	12.1	20.0	12.1	16.0	16.0
82.5°	4.0	8.1	8.1	8.1	8.1	8.1	4.0	4.0	8.1	8.1	4.0
85°	0.0	8.1	4.0	4.0	4.0	8.1	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: P248611

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8312.6	8300.5	8304.6	8280.5	8280.5	8272.4	8276.5	8256.4	8248.4	8240.3	8252.4
5°	8433.1	8413.1	8396.9	8360.9	8340.7	8316.7	8304.6	8272.4	8244.3	8220.1	8216.2
7.5°	8529.6	8485.4	8457.3	8409.0	8372.9	8344.8	8304.6	8260.3	8224.3	8192.0	8168.0
10°	8569.7	8525.6	8481.4	8421.1	8380.9	8328.6	8288.4	8232.2	8184.1	8139.9	8111.7
12.5°	8573.7	8517.5	8477.3	8409.0	8356.7	8300.5	8256.4	8192.0	8135.8	8091.6	8047.5
15°	8537.7	8485.4	8437.1	8364.8	8312.6	8260.3	8208.2	8139.9	8087.7	8035.4	8003.3
17.5°	8457.3	8409.0	8352.8	8284.5	8236.3	8188.1	8131.8	8075.6	8015.2	7959.0	7918.8
20°	8352.8	8300.5	8252.4	8184.1	8143.9	8091.6	8039.4	7979.2	7930.9	7874.7	7830.5
22.5°	8196.2	8147.9	8103.7	8063.5	7999.2	7959.0	7923.0	7854.7	7806.4	7754.1	7706.0
25°	7971.1	7923.0	7886.8	7838.5	7810.3	7766.2	7730.0	7669.8	7625.6	7577.3	7537.2
27.5°	7601.5	7573.4	7553.2	7525.1	7501.1	7480.9	7460.9	7412.6	7380.5	7336.4	7296.2
30°	7047.0	7043.0	7031.0	7018.9	7034.9	7034.9	7034.9	7027.0	6998.9	6966.6	6938.5
32.5°	6335.9	6344.0	6360.0	6372.1	6404.2	6440.4	6472.5	6488.5	6488.5	6468.5	6456.4
35°	5488.2	5500.3	5524.4	5556.5	5596.7	5640.8	5713.1	5729.3	5741.2	5741.2	5725.2
37.5°	4608.3	4604.3	4628.4	4656.5	4680.7	4712.8	4765.0	4777.1	4797.1	4789.2	4773.0
40°	3752.5	3732.4	3724.3	3732.4	3760.6	3748.5	3760.6	3752.5	3752.5	3724.3	3724.3
42.5°	2961.0	2937.0	2920.8	2908.9	2908.9	2880.6	2860.6	2840.6	2828.5	2808.3	2804.4
45°	2282.1	2253.9	2233.8	2225.7	2213.8	2177.6	2153.5	2129.3	2101.2	2093.3	2097.2
47.5°	1771.8	1743.7	1735.6	1715.6	1695.4	1675.4	1659.3	1631.2	1627.1	1611.1	1627.1
50°	1366.0	1358.0	1346.0	1337.9	1325.8	1309.7	1293.7	1277.7	1269.6	1269.6	1273.5
52.5°	1060.7	1064.7	1052.6	1040.5	1032.6	1032.6	1012.4	1008.4	1008.4	992.4	1008.4
55°	811.6	807.5	811.6	803.5	803.5	791.5	791.5	779.4	779.4	767.3	775.4
57.5°	594.7	602.6	594.7	598.6	606.7	594.7	590.5	578.5	586.6	578.5	582.6
60°	462.0	462.0	462.0	458.1	458.1	453.9	453.9	450.0	450.0	441.9	450.0
62.5°	341.5	345.5	345.5	345.5	349.6	345.5	341.5	345.5	341.5	341.5	345.5
65°	225.1	229.0	229.0	225.1	233.0	225.1	229.0	233.0	237.0	233.0	237.0
67.5°	152.6	152.6	156.8	160.7	156.8	160.7	164.7	160.7	164.7	172.8	164.7
70°	112.5	116.6	116.6	112.5	108.5	112.5	108.5	120.6	120.6	120.6	128.5
72.5°	72.3	72.3	68.3	68.3	68.3	68.3	68.3	80.4	72.3	68.3	76.4
75°	40.2	44.2	44.2	32.1	36.2	44.2	32.1	36.2	48.3	40.2	48.3
77.5°	24.1	24.1	24.1	24.1	24.1	24.1	32.1	28.1	28.1	28.1	32.1
80°	20.0	16.0	16.0	12.1	16.0	16.0	16.0	24.1	20.0	20.0	24.1
82.5°	8.1	8.1	4.0	0.0	8.1	8.1	8.1	8.1	8.1	8.1	16.0
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	8.1	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: P248611

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8220.1	8220.1	8216.2	8208.2	8192.0	8192.0	8188.1	8176.0	8168.0	8163.9	8163.9
5°	8180.0	8163.9	8147.9	8103.7	8103.7	8095.6	8071.6	8055.4	8047.5	8027.3	8019.4
7.5°	8143.9	8095.6	8067.5	8039.4	8003.3	7987.1	7959.0	7946.9	7918.8	7898.8	7886.8
10°	8055.4	8023.3	7987.1	7943.0	7914.9	7882.8	7850.5	7826.6	7790.3	7770.2	7754.1
12.5°	7995.2	7946.9	7914.9	7866.6	7818.5	7790.3	7746.2	7718.1	7681.9	7641.7	7617.5
15°	7939.0	7886.8	7842.6	7790.3	7738.1	7706.0	7653.7	7621.7	7569.4	7529.2	7501.1
17.5°	7854.7	7810.3	7762.2	7697.9	7649.8	7609.6	7553.2	7513.2	7464.9	7412.6	7384.5
20°	7766.2	7713.9	7665.8	7601.5	7553.2	7505.1	7448.8	7404.7	7348.3	7300.2	7268.1
22.5°	7649.8	7589.4	7549.2	7484.9	7428.7	7376.6	7324.3	7272.1	7219.8	7179.6	7143.4
25°	7480.9	7416.6	7372.4	7320.2	7268.1	7227.9	7163.6	7131.5	7079.2	7043.0	7006.8
27.5°	7239.8	7191.7	7151.5	7099.2	7055.1	7023.0	6974.7	6942.6	6898.3	6866.2	6838.1
30°	6886.4	6846.2	6810.0	6757.8	6725.7	6697.6	6653.2	6625.1	6593.0	6556.8	6548.9
32.5°	6412.3	6380.0	6344.0	6307.8	6283.6	6267.6	6231.4	6215.3	6183.3	6163.1	6143.1
35°	5697.1	5668.9	5648.9	5632.9	5624.8	5628.8	5620.8	5636.9	5644.8	5640.8	5644.8
37.5°	4761.1	4744.8	4753.0	4765.0	4805.2	4857.5	4905.6	4977.9	5026.1	5074.4	5118.6
40°	3716.4	3728.5	3760.6	3832.8	3937.3	4053.9	4162.4	4299.0	4435.6	4532.0	4620.3
42.5°	2804.4	2840.6	2920.8	3025.3	3182.1	3354.7	3523.6	3724.3	3889.2	4049.8	4162.4
45°	2109.3	2157.4	2262.0	2406.7	2579.3	2780.2	2993.2	3218.1	3415.1	3579.8	3704.3
47.5°	1643.3	1687.5	1792.0	1944.6	2157.4	2366.5	2587.4	2820.4	3025.3	3186.1	3294.5
50°	1297.7	1353.9	1446.3	1607.1	1820.1	2041.0	2270.1	2498.9	2691.9	2828.5	2924.9
52.5°	1020.5	1072.8	1161.1	1329.9	1546.9	1767.8	1980.7	2205.7	2374.4	2507.0	2571.4
55°	791.5	839.8	932.0	1072.8	1277.7	1494.6	1707.5	1900.5	2057.1	2153.5	2213.8
57.5°	602.6	638.8	703.2	843.7	1028.6	1229.4	1410.3	1603.1	1723.7	1792.0	1832.0
60°	458.1	486.2	554.5	663.0	831.7	1004.5	1157.1	1301.8	1398.2	1454.4	1494.6
62.5°	345.5	377.7	425.8	518.3	646.8	787.5	916.0	1024.5	1104.8	1141.1	1169.2
65°	237.0	261.1	297.3	369.6	478.1	578.5	679.0	759.4	811.6	851.8	867.9
67.5°	176.8	192.8	213.0	269.2	345.5	425.8	494.1	550.4	606.7	622.8	650.9
70°	132.6	144.7	164.7	204.9	249.1	305.3	361.7	393.8	433.9	462.0	470.2
72.5°	84.3	88.3	108.5	132.6	168.7	204.9	241.1	269.2	293.4	309.4	317.3
75°	48.3	72.3	72.3	96.4	120.6	136.6	160.7	180.8	192.8	204.9	204.9
77.5°	32.1	44.2	48.3	60.2	72.3	92.4	112.5	124.5	136.6	140.6	140.6
80°	28.1	32.1	32.1	44.2	52.3	68.3	80.4	84.3	92.4	96.4	104.5
82.5°	12.1	16.0	20.0	32.1	36.2	36.2	48.3	52.3	60.2	64.3	64.3
85°	4.0	8.1	8.1	12.1	20.0	24.1	28.1	32.1	36.2	36.2	40.2
87.5°	4.0	4.0	0.0	4.0	8.1	8.1	16.0	16.0	16.0	24.1	24.1
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: P248611

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2	8228.2
2.5°	8156.0	8159.9	8143.9	8139.9	8131.8	8135.8	8143.9
5°	8007.3	8011.3	7995.2	7979.2	7979.2	7975.1	7979.2
7.5°	7866.6	7870.7	7846.6	7838.5	7822.4	7826.6	7826.6
10°	7726.0	7726.0	7690.0	7685.8	7673.8	7669.8	7669.8
12.5°	7589.4	7577.3	7549.2	7533.2	7541.3	7517.1	7517.1
15°	7468.9	7448.8	7412.6	7400.6	7380.5	7372.4	7372.4
17.5°	7344.3	7328.3	7296.2	7272.1	7247.9	7243.9	7247.9
20°	7223.8	7207.7	7167.5	7151.5	7131.5	7131.5	7123.4
22.5°	7103.2	7087.2	7051.1	7039.1	7010.9	7010.9	7014.9
25°	6978.7	6966.6	6926.4	6918.5	6914.5	6898.3	6906.4
27.5°	6810.0	6801.9	6769.8	6757.8	6741.7	6737.7	6745.7
30°	6500.6	6488.5	6464.6	6452.5	6424.4	6428.3	6436.3
32.5°	6115.0	6098.9	6066.7	6054.6	6030.6	6022.5	6026.5
35°	5632.9	5620.8	5592.7	5592.7	5568.6	5560.5	5568.6
37.5°	5142.7	5154.6	5142.7	5154.6	5142.7	5138.6	5142.7
40°	4680.7	4724.8	4732.8	4777.1	4761.1	4785.0	4781.1
42.5°	4238.6	4310.9	4339.2	4375.2	4367.3	4383.3	4395.4
45°	3792.6	3853.0	3881.1	3905.3	3909.2	3917.3	3921.3
47.5°	3370.8	3419.1	3423.0	3451.1	3447.2	3447.2	3459.2
50°	2977.2	3009.3	3017.2	3037.4	3021.3	3013.2	3017.2
52.5°	2611.6	2643.6	2635.5	2643.6	2623.6	2615.5	2619.5
55°	2237.8	2253.9	2253.9	2253.9	2229.9	2229.9	2229.9
57.5°	1856.1	1860.3	1852.2	1856.1	1852.2	1828.0	1824.1
60°	1506.7	1506.7	1502.6	1506.7	1494.6	1482.6	1482.6
62.5°	1177.1	1185.2	1201.3	1185.2	1177.1	1185.2	1173.1
65°	879.9	896.0	891.9	900.0	896.0	896.0	887.9
67.5°	663.0	666.9	670.9	675.0	675.0	675.0	675.0
70°	486.2	498.3	494.1	494.1	494.1	494.1	518.3
72.5°	325.5	341.5	337.5	345.5	345.5	353.6	345.5
75°	220.9	237.0	229.0	241.1	237.0	229.0	249.1
77.5°	148.7	156.8	160.7	164.7	160.7	156.8	160.7
80°	104.5	112.5	108.5	112.5	112.5	112.5	116.6
82.5°	64.3	76.4	72.3	76.4	72.3	76.4	76.4
85°	44.2	48.3	40.2	48.3	44.2	44.2	52.3
87.5°	28.1	24.1	24.1	28.1	24.1	28.1	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)