

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: P248728

Luminaire Tested: **LD8B150D010 ER8B150940 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248728
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 ER8B150940 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14349.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

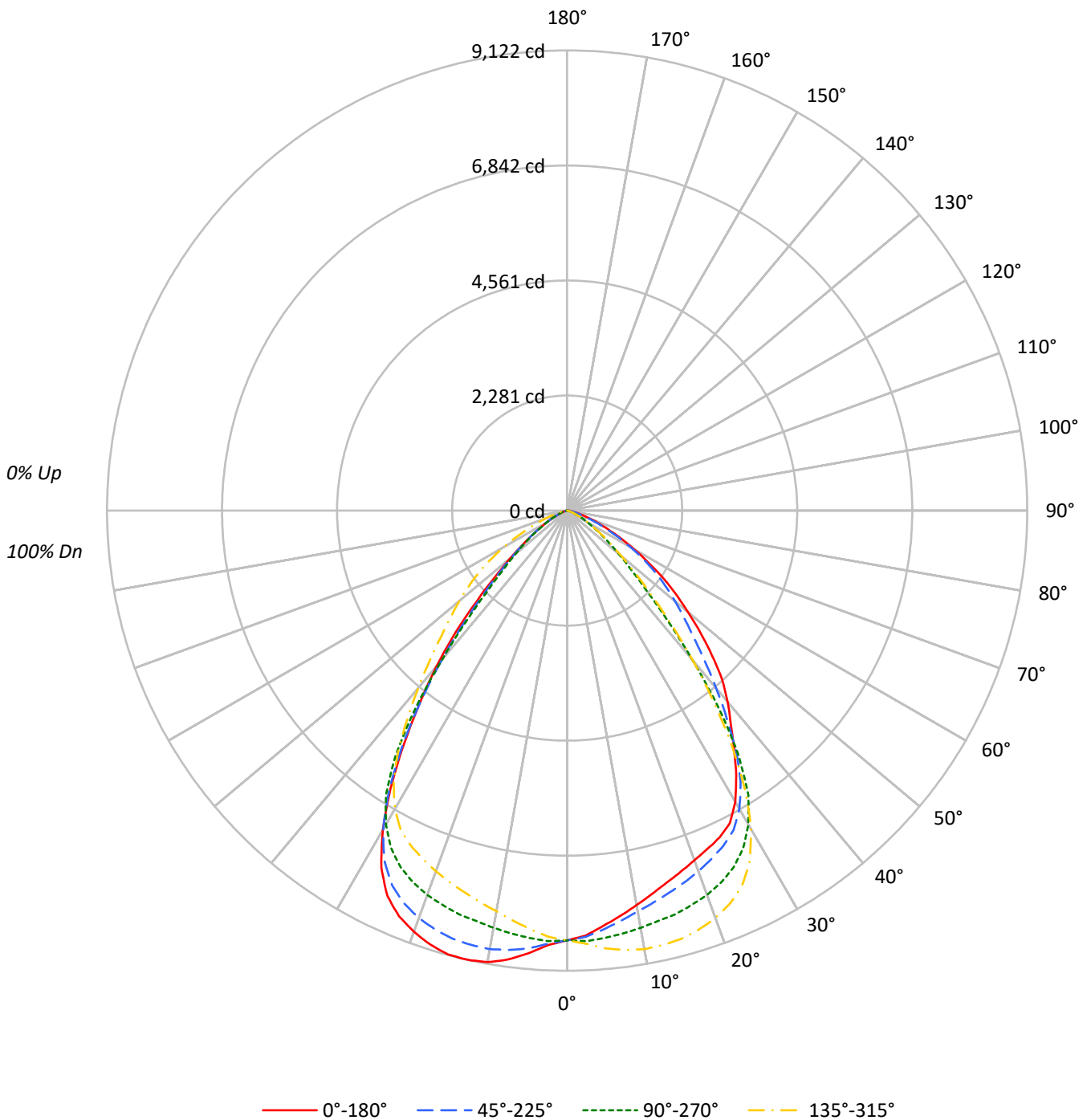
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	262679	262679	262679	262679
5°	255703	263296	272699	263296
10°	248630	262952	284573	262952
15°	243664	264514	290803	264514
20°	242003	266027	291551	266027
25°	243276	265494	286864	265494
30°	237262	255774	260370	255774
35°	217019	223125	211696	223125
40°	199245	155207	162079	155207
45°	177036	94684	109559	94684
50°	149853	63252	70242	63252
55°	124108	43160	45617	43160
60°	94661	28733	28986	28733
65°	67069	17898	16388	17898
70°	48380	11991	10882	11991
75°	30715	5957	4956	5957
80°	21434	4439	3676	4439
85°	19141	0	1451	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.8	5.7
10°-20°	2347.9	16.4
20°-30°	3555.3	24.8
30°-40°	3563.3	24.8
40°-50°	2237.5	15.6
50°-60°	1192.4	8.3
60°-70°	490.3	3.4
70°-80°	129.5	0.9
80°-90°	21.9	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°	6714.0	46.8
0°-40°	10277.3	71.6
0°-60°	13707.2	95.5
0°-90°	14349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14349.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8518	8518	8518	8518	8518	
5°	8261	8506	8810	8506	8261	779
15°	7633	8286	9109	8286	7633	2159
25°	7150	7803	8431	7803	7150	3279
35°	5765	5927	5624	5927	5765	3612
45°	4060	2171	2512	2171	4060	3122
55°	2308	803	848	803	2308	2058
65°	919	245	225	245	919	954
75°	258	50	42	50	258	292
85°	54	0	4	0	54	59
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°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8431.2	8422.8	8418.7	8427.1	8431.2	8447.8	8443.7	8451.9	8451.9	8456.2	8464.4
5°	8260.7	8256.4	8260.7	8260.7	8277.3	8293.9	8289.8	8302.3	8310.5	8331.4	8339.6
7.5°	8102.7	8102.7	8098.4	8115.0	8123.4	8148.4	8144.1	8165.0	8177.5	8198.2	8227.3
10°	7940.4	7940.4	7944.5	7957.0	7961.3	7998.6	7998.6	8027.7	8044.3	8065.2	8102.7
12.5°	7782.4	7782.4	7807.4	7799.0	7815.6	7844.7	7857.2	7886.3	7911.3	7952.9	7990.4
15°	7632.6	7632.6	7640.9	7661.7	7674.2	7711.7	7732.4	7765.8	7794.9	7836.5	7890.6
17.5°	7503.6	7499.5	7503.6	7528.6	7553.6	7586.8	7603.4	7645.1	7674.2	7728.3	7778.3
20°	7374.7	7383.1	7383.1	7403.8	7420.4	7462.0	7478.6	7524.5	7557.7	7607.6	7665.9
22.5°	7262.4	7258.3	7258.3	7287.4	7299.9	7337.2	7353.8	7395.4	7432.9	7474.5	7528.6
25°	7150.1	7141.7	7158.5	7162.6	7170.8	7212.4	7224.9	7254.0	7291.5	7329.0	7383.1
27.5°	6983.7	6975.5	6979.6	6996.2	7008.7	7041.9	7050.3	7079.4	7108.5	7141.7	7187.6
30°	6663.4	6655.1	6651.0	6680.1	6692.6	6717.5	6730.0	6779.9	6788.2	6825.7	6858.9
32.5°	6239.1	6235.0	6243.4	6268.2	6280.7	6314.1	6330.7	6359.8	6380.5	6401.4	6434.6
35°	5765.0	5756.6	5765.0	5790.0	5790.0	5819.1	5831.6	5844.0	5839.9	5844.0	5835.7
37.5°	5324.2	5319.9	5324.2	5336.5	5324.2	5336.5	5324.2	5299.2	5253.5	5203.5	5153.5
40°	4949.7	4953.9	4929.0	4945.6	4899.8	4891.5	4845.8	4783.3	4691.9	4592.1	4450.7
42.5°	4550.5	4538.0	4521.4	4529.6	4492.3	4463.0	4388.2	4309.3	4192.7	4026.4	3855.7
45°	4059.6	4055.5	4047.1	4043.0	4018.0	3988.9	3926.4	3835.0	3706.1	3535.6	3331.7
47.5°	3581.3	3568.8	3568.8	3572.9	3543.8	3539.7	3489.7	3410.8	3298.5	3132.1	2919.9
50°	3123.7	3119.6	3127.9	3144.5	3123.7	3115.4	3082.2	3028.1	2928.3	2786.9	2587.1
52.5°	2711.9	2707.8	2716.2	2736.9	2728.5	2736.9	2703.7	2662.1	2595.5	2458.2	2283.6
55°	2308.5	2308.5	2308.5	2333.4	2333.4	2333.4	2316.8	2291.9	2229.5	2129.6	1967.5
57.5°	1888.4	1892.5	1917.5	1921.6	1917.5	1925.9	1921.6	1896.6	1855.2	1784.5	1659.7
60°	1534.9	1534.9	1547.4	1559.9	1555.6	1559.9	1559.9	1547.4	1505.8	1447.6	1347.7
62.5°	1214.5	1227.0	1218.6	1227.0	1243.6	1227.0	1218.6	1210.4	1181.3	1143.8	1060.6
65°	919.2	927.6	927.6	931.7	923.3	927.6	911.0	898.5	881.9	840.3	786.2
67.5°	698.9	698.9	698.9	698.9	694.6	690.5	686.4	673.9	644.8	628.2	569.8
70°	536.6	511.6	511.6	511.6	511.6	515.8	503.3	486.7	478.4	449.2	407.6
72.5°	357.7	366.0	357.7	357.7	349.4	353.5	336.9	328.5	320.3	303.7	278.7
75°	257.8	237.1	245.3	249.6	237.1	245.3	228.7	212.1	212.1	199.6	187.1
77.5°	166.4	162.3	166.4	170.5	166.4	162.3	153.9	145.5	145.5	141.4	128.9
80°	120.7	116.4	116.4	116.4	112.3	116.4	108.2	108.2	99.8	95.7	87.3
82.5°	79.1	79.1	74.8	79.1	74.8	79.1	66.6	66.6	66.6	62.3	54.1
85°	54.1	45.7	45.7	50.0	41.6	50.0	45.7	41.6	37.5	37.5	33.2
87.5°	25.0	29.1	25.0	29.1	25.0	25.0	29.1	25.0	25.0	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8476.9	8481.1	8481.1	8497.8	8506.0	8510.2	8510.2	8543.5	8531.0	8539.4	8547.7
5°	8356.4	8381.2	8389.6	8389.6	8435.3	8451.9	8468.6	8506.0	8510.2	8535.2	8564.3
7.5°	8239.8	8268.9	8285.7	8323.0	8352.1	8381.2	8431.2	8456.2	8481.1	8514.4	8551.8
10°	8127.5	8160.9	8194.1	8223.2	8268.9	8306.4	8339.6	8397.8	8427.1	8472.8	8522.7
12.5°	8019.5	8065.2	8094.3	8144.1	8194.1	8227.3	8277.3	8331.4	8377.1	8422.8	8481.1
15°	7923.8	7977.9	8011.1	8065.2	8119.3	8165.0	8219.1	8285.7	8318.9	8373.0	8427.1
17.5°	7819.7	7878.1	7919.7	7969.5	8036.1	8085.9	8131.8	8198.2	8239.8	8298.0	8360.5
20°	7711.7	7769.9	7819.7	7869.7	7936.3	7986.1	8040.2	8106.8	8152.5	8210.7	8260.7
22.5°	7582.7	7636.8	7690.8	7749.0	7815.6	7857.2	7919.7	7977.9	8027.7	8081.8	8131.8
25°	7416.3	7482.9	7524.5	7578.5	7632.6	7678.3	7744.9	7803.1	7844.7	7894.7	7940.4
27.5°	7220.8	7270.8	7304.0	7349.7	7403.8	7445.4	7495.2	7553.6	7595.2	7640.9	7674.2
30°	6888.0	6933.9	6963.0	6996.2	7050.3	7087.8	7129.4	7183.3	7212.4	7245.8	7274.9
32.5°	6451.2	6488.7	6505.3	6530.3	6567.8	6605.1	6638.5	6684.2	6696.7	6717.5	6717.5
35°	5819.1	5827.4	5823.2	5831.6	5848.2	5869.0	5898.1	5927.2	5943.8	5943.8	5931.4
37.5°	5078.7	5028.8	4974.7	4933.1	4920.6	4912.3	4929.0	4941.4	4958.1	4966.4	4945.6
40°	4309.3	4197.0	4076.3	3968.1	3893.2	3860.0	3847.5	3855.7	3855.7	3884.8	3884.8
42.5°	3647.9	3473.1	3294.4	3132.1	3023.8	2940.8	2903.3	2903.3	2907.4	2928.3	2940.8
45°	3098.8	2878.3	2670.3	2491.6	2341.8	2233.6	2183.7	2171.2	2167.1	2175.3	2204.5
47.5°	2678.7	2450.0	2233.6	2013.2	1855.2	1747.0	1701.3	1684.5	1667.9	1684.5	1688.8
50°	2350.2	2113.0	1884.3	1663.8	1497.4	1401.7	1343.5	1318.5	1314.4	1314.4	1322.7
52.5°	2050.5	1830.2	1601.5	1376.8	1202.0	1110.6	1056.5	1044.0	1027.4	1044.0	1044.0
55°	1767.7	1547.4	1322.7	1110.6	964.9	869.4	819.4	802.8	794.4	806.9	806.9
57.5°	1460.0	1272.7	1064.9	873.5	728.0	661.4	623.9	603.2	598.9	607.3	598.9
60°	1197.9	1039.9	861.0	686.4	574.1	503.3	474.2	465.9	457.5	465.9	465.9
62.5°	948.3	815.3	669.6	536.6	440.9	391.0	357.7	357.7	353.5	353.5	357.7
65°	703.0	598.9	495.0	382.6	307.8	270.3	245.3	245.3	241.2	245.3	241.2
67.5°	511.6	440.9	357.7	278.7	220.5	199.6	183.0	170.5	178.9	170.5	166.4
70°	374.4	316.0	257.8	212.1	170.5	149.8	137.3	133.0	124.8	124.8	124.8
72.5°	249.6	212.1	174.6	137.3	112.3	91.4	87.3	79.1	70.7	74.8	83.2
75°	166.4	141.4	124.8	99.8	74.8	74.8	50.0	50.0	41.6	50.0	37.5
77.5°	116.4	95.7	74.8	62.3	50.0	45.7	33.2	33.2	29.1	29.1	29.1
80°	83.2	70.7	54.1	45.7	33.2	33.2	29.1	25.0	20.7	20.7	25.0
82.5°	50.0	37.5	37.5	33.2	20.7	16.6	12.5	16.6	8.4	8.4	8.4
85°	29.1	25.0	20.7	12.5	8.4	8.4	4.1	0.0	4.1	4.1	0.0
87.5°	16.6	8.4	8.4	4.1	0.0	4.1	4.1	0.0	0.0	0.0	8.4
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°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8568.5	8564.3	8572.6	8572.6	8597.6	8593.4	8605.9	8605.9	8597.6	8601.8	8618.4
5°	8597.6	8610.1	8635.0	8655.9	8693.2	8710.0	8730.7	8751.6	8755.7	8768.2	8780.7
7.5°	8597.6	8639.2	8668.4	8705.7	8755.7	8784.8	8830.5	8868.0	8884.6	8905.3	8930.3
10°	8580.9	8622.5	8676.6	8718.2	8780.7	8826.4	8872.1	8930.3	8955.3	8988.5	9021.9
12.5°	8547.7	8593.4	8651.6	8705.7	8776.4	8818.0	8876.2	8930.3	8967.8	9013.5	9051.0
15°	8497.8	8551.8	8605.9	8660.0	8734.8	8784.8	8838.9	8901.2	8938.7	8988.5	9021.9
17.5°	8418.7	8476.9	8526.9	8576.8	8647.5	8705.7	8755.7	8813.9	8851.4	8893.0	8938.7
20°	8323.0	8377.1	8431.2	8472.8	8543.5	8593.4	8647.5	8701.6	8730.7	8739.1	8809.8
22.5°	8202.5	8239.8	8281.4	8348.0	8389.6	8435.3	8485.3	8535.2	8564.3	8610.1	8635.0
25°	8002.7	8040.2	8085.9	8115.0	8165.0	8202.5	8252.3	8306.4	8323.0	8356.4	8381.2
27.5°	7724.1	7744.9	7765.8	7790.6	7819.7	7840.6	7869.7	7894.7	7911.3	7927.9	7944.5
30°	7283.1	7283.1	7283.1	7266.5	7279.0	7291.5	7295.6	7291.5	7291.5	7287.4	7287.4
32.5°	6700.8	6667.6	6630.1	6596.9	6584.4	6567.8	6559.4	6546.9	6526.2	6513.7	6517.8
35°	5914.7	5839.9	5794.1	5752.5	5719.3	5694.3	5681.8	5669.3	5665.2	5648.6	5631.8
37.5°	4933.1	4879.0	4845.8	4820.8	4791.7	4766.7	4770.8	4775.1	4787.4	4779.2	4783.3
40°	3893.2	3880.7	3893.2	3864.1	3855.7	3864.1	3884.8	3914.1	3930.7	3947.3	3976.4
42.5°	2961.5	2982.2	3011.5	3011.5	3023.8	3040.6	3065.5	3111.3	3136.2	3165.3	3198.6
45°	2229.5	2254.4	2291.9	2304.3	2312.7	2333.4	2362.6	2400.0	2416.6	2441.6	2470.7
47.5°	1717.9	1734.5	1755.2	1776.1	1796.8	1805.2	1834.3	1834.3	1855.2	1871.8	1880.0
50°	1339.3	1356.0	1372.6	1385.1	1393.4	1405.9	1414.2	1426.7	1430.8	1439.2	1443.3
52.5°	1048.1	1069.0	1069.0	1077.2	1089.7	1102.2	1098.1	1102.2	1106.3	1106.3	1118.8
55°	819.4	819.4	831.9	831.9	840.3	836.0	840.3	840.3	840.3	840.3	844.4
57.5°	611.4	615.7	628.2	619.8	615.7	623.9	615.7	623.9	619.8	628.2	615.7
60°	470.0	470.0	474.2	474.2	478.4	478.4	478.4	474.2	474.2	470.0	470.0
62.5°	353.5	357.7	361.9	357.7	357.7	357.7	353.5	353.5	349.4	345.2	345.2
65°	237.1	233.0	241.2	233.0	237.1	237.1	233.0	237.1	224.6	228.7	224.6
67.5°	170.5	166.4	162.3	166.4	162.3	158.0	158.0	162.3	166.4	153.9	153.9
70°	112.3	116.4	112.3	116.4	120.7	120.7	116.4	112.3	116.4	108.2	112.3
72.5°	70.7	70.7	70.7	70.7	70.7	74.8	74.8	74.8	66.6	66.6	62.3
75°	33.2	45.7	37.5	33.2	45.7	45.7	41.6	41.6	37.5	37.5	37.5
77.5°	33.2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	20.7	25.0	20.7
80°	16.6	16.6	16.6	12.5	16.6	16.6	20.7	16.6	16.6	12.5	20.7
82.5°	8.4	8.4	8.4	0.0	4.1	8.4	8.4	4.1	8.4	8.4	4.1
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: P248728

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8614.3	8610.1	8614.3	8618.4	8614.3	8610.1	8614.3	8618.4	8601.8	8597.6	8605.9
5°	8797.3	8797.3	8805.5	8809.8	8805.5	8797.3	8797.3	8780.7	8768.2	8755.7	8751.6
7.5°	8955.3	8963.7	8971.9	8976.0	8971.9	8963.7	8955.3	8930.3	8905.3	8884.6	8868.0
10°	9051.0	9063.5	9080.1	9088.3	9080.1	9063.5	9051.0	9021.9	8988.5	8955.3	8930.3
12.5°	9092.6	9105.1	9125.8	9121.7	9125.8	9105.1	9092.6	9051.0	9013.5	8967.8	8930.3
15°	9063.5	9080.1	9100.8	9109.2	9100.8	9080.1	9063.5	9021.9	8988.5	8938.7	8901.2
17.5°	8971.9	8996.9	9009.4	9021.9	9009.4	8996.9	8971.9	8938.7	8893.0	8851.4	8813.9
20°	8847.1	8863.9	8880.5	8884.6	8880.5	8863.9	8847.1	8809.8	8739.1	8730.7	8701.6
22.5°	8668.4	8680.9	8718.2	8705.7	8718.2	8680.9	8668.4	8635.0	8610.1	8564.3	8535.2
25°	8410.3	8422.8	8427.1	8431.2	8427.1	8422.8	8410.3	8381.2	8356.4	8323.0	8306.4
27.5°	7965.4	7965.4	7973.6	7977.9	7973.6	7965.4	7965.4	7944.5	7927.9	7911.3	7894.7
30°	7291.5	7291.5	7291.5	7312.4	7291.5	7291.5	7291.5	7287.4	7287.4	7291.5	7291.5
32.5°	6513.7	6505.3	6497.1	6505.3	6497.1	6505.3	6513.7	6517.8	6513.7	6526.2	6546.9
35°	5631.8	5627.7	5640.2	5623.6	5640.2	5627.7	5631.8	5631.8	5648.6	5665.2	5669.3
37.5°	4787.4	4779.2	4795.8	4779.2	4795.8	4779.2	4787.4	4783.3	4779.2	4787.4	4775.1
40°	3984.8	3993.0	3993.0	4026.4	3993.0	3993.0	3984.8	3976.4	3947.3	3930.7	3914.1
42.5°	3215.3	3240.3	3231.9	3256.9	3231.9	3240.3	3215.3	3198.6	3165.3	3136.2	3111.3
45°	2487.3	2504.1	2504.1	2512.3	2504.1	2504.1	2487.3	2470.7	2441.6	2416.6	2400.0
47.5°	1909.1	1909.1	1909.1	1913.4	1909.1	1909.1	1909.1	1880.0	1871.8	1855.2	1834.3
50°	1451.7	1455.8	1460.0	1464.2	1460.0	1455.8	1451.7	1443.3	1439.2	1430.8	1426.7
52.5°	1114.7	1118.8	1110.6	1118.8	1110.6	1118.8	1114.7	1118.8	1106.3	1106.3	1102.2
55°	844.4	840.3	844.4	848.5	844.4	840.3	844.4	844.4	840.3	840.3	840.3
57.5°	619.8	611.4	611.4	611.4	611.4	611.4	619.8	615.7	628.2	619.8	623.9
60°	461.7	465.9	465.9	470.0	465.9	465.9	461.7	470.0	470.0	474.2	474.2
62.5°	341.0	353.5	345.2	353.5	345.2	353.5	341.0	345.2	345.2	349.4	353.5
65°	220.5	220.5	220.5	224.6	220.5	220.5	220.5	224.6	228.7	224.6	237.1
67.5°	149.8	153.9	162.3	158.0	162.3	153.9	149.8	153.9	153.9	166.4	162.3
70°	120.7	108.2	108.2	120.7	108.2	108.2	120.7	112.3	108.2	116.4	112.3
72.5°	70.7	62.3	70.7	70.7	70.7	62.3	70.7	62.3	66.6	66.6	74.8
75°	37.5	33.2	29.1	41.6	29.1	33.2	37.5	37.5	37.5	37.5	41.6
77.5°	25.0	20.7	29.1	29.1	29.1	20.7	25.0	20.7	25.0	20.7	25.0
80°	12.5	16.6	12.5	20.7	12.5	16.6	12.5	20.7	12.5	16.6	16.6
82.5°	4.1	8.4	8.4	8.4	8.4	8.4	4.1	4.1	8.4	8.4	4.1
85°	0.0	8.4	4.1	4.1	4.1	8.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.0	0.0	4.1	0.0	0.0	4.1	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: P248728

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8605.9	8593.4	8597.6	8572.6	8572.6	8564.3	8568.5	8547.7	8539.4	8531.0	8543.5
5°	8730.7	8710.0	8693.2	8655.9	8635.0	8610.1	8597.6	8564.3	8535.2	8510.2	8506.0
7.5°	8830.5	8784.8	8755.7	8705.7	8668.4	8639.2	8597.6	8551.8	8514.4	8481.1	8456.2
10°	8872.1	8826.4	8780.7	8718.2	8676.6	8622.5	8580.9	8522.7	8472.8	8427.1	8397.8
12.5°	8876.2	8818.0	8776.4	8705.7	8651.6	8593.4	8547.7	8481.1	8422.8	8377.1	8331.4
15°	8838.9	8784.8	8734.8	8660.0	8605.9	8551.8	8497.8	8427.1	8373.0	8318.9	8285.7
17.5°	8755.7	8705.7	8647.5	8576.8	8526.9	8476.9	8418.7	8360.5	8298.0	8239.8	8198.2
20°	8647.5	8593.4	8543.5	8472.8	8431.2	8377.1	8323.0	8260.7	8210.7	8152.5	8106.8
22.5°	8485.3	8435.3	8389.6	8348.0	8281.4	8239.8	8202.5	8131.8	8081.8	8027.7	7977.9
25°	8252.3	8202.5	8165.0	8115.0	8085.9	8040.2	8002.7	7940.4	7894.7	7844.7	7803.1
27.5°	7869.7	7840.6	7819.7	7790.6	7765.8	7744.9	7724.1	7674.2	7640.9	7595.2	7553.6
30°	7295.6	7291.5	7279.0	7266.5	7283.1	7283.1	7283.1	7274.9	7245.8	7212.4	7183.3
32.5°	6559.4	6567.8	6584.4	6596.9	6630.1	6667.6	6700.8	6717.5	6717.5	6696.7	6684.2
35°	5681.8	5694.3	5719.3	5752.5	5794.1	5839.9	5914.7	5931.4	5943.8	5943.8	5927.2
37.5°	4770.8	4766.7	4791.7	4820.8	4845.8	4879.0	4933.1	4945.6	4966.4	4958.1	4941.4
40°	3884.8	3864.1	3855.7	3864.1	3893.2	3880.7	3893.2	3884.8	3884.8	3855.7	3855.7
42.5°	3065.5	3040.6	3023.8	3011.5	3011.5	2982.2	2961.5	2940.8	2928.3	2907.4	2903.3
45°	2362.6	2333.4	2312.7	2304.3	2291.9	2254.4	2229.5	2204.5	2175.3	2167.1	2171.2
47.5°	1834.3	1805.2	1796.8	1776.1	1755.2	1734.5	1717.9	1688.8	1684.5	1667.9	1684.5
50°	1414.2	1405.9	1393.4	1385.1	1372.6	1356.0	1339.3	1322.7	1314.4	1314.4	1318.5
52.5°	1098.1	1102.2	1089.7	1077.2	1069.0	1069.0	1048.1	1044.0	1044.0	1027.4	1044.0
55°	840.3	836.0	840.3	831.9	831.9	819.4	819.4	806.9	806.9	794.4	802.8
57.5°	615.7	623.9	615.7	619.8	628.2	615.7	611.4	598.9	607.3	598.9	603.2
60°	478.4	478.4	478.4	474.2	474.2	470.0	470.0	465.9	465.9	457.5	465.9
62.5°	353.5	357.7	357.7	357.7	361.9	357.7	353.5	357.7	353.5	353.5	357.7
65°	233.0	237.1	237.1	233.0	241.2	233.0	237.1	241.2	245.3	241.2	245.3
67.5°	158.0	158.0	162.3	166.4	162.3	166.4	170.5	166.4	170.5	178.9	170.5
70°	116.4	120.7	120.7	116.4	112.3	116.4	112.3	124.8	124.8	124.8	133.0
72.5°	74.8	74.8	70.7	70.7	70.7	70.7	70.7	83.2	74.8	70.7	79.1
75°	41.6	45.7	45.7	33.2	37.5	45.7	33.2	37.5	50.0	41.6	50.0
77.5°	25.0	25.0	25.0	25.0	25.0	25.0	33.2	29.1	29.1	29.1	33.2
80°	20.7	16.6	16.6	12.5	16.6	16.6	16.6	25.0	20.7	20.7	25.0
82.5°	8.4	8.4	4.1	0.0	8.4	8.4	8.4	8.4	8.4	8.4	16.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	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: P248728

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8510.2	8510.2	8506.0	8497.8	8481.1	8481.1	8476.9	8464.4	8456.2	8451.9	8451.9
5°	8468.6	8451.9	8435.3	8389.6	8389.6	8381.2	8356.4	8339.6	8331.4	8310.5	8302.3
7.5°	8431.2	8381.2	8352.1	8323.0	8285.7	8268.9	8239.8	8227.3	8198.2	8177.5	8165.0
10°	8339.6	8306.4	8268.9	8223.2	8194.1	8160.9	8127.5	8102.7	8065.2	8044.3	8027.7
12.5°	8277.3	8227.3	8194.1	8144.1	8094.3	8065.2	8019.5	7990.4	7952.9	7911.3	7886.3
15°	8219.1	8165.0	8119.3	8065.2	8011.1	7977.9	7923.8	7890.6	7836.5	7794.9	7765.8
17.5°	8131.8	8085.9	8036.1	7969.5	7919.7	7878.1	7819.7	7778.3	7728.3	7674.2	7645.1
20°	8040.2	7986.1	7936.3	7869.7	7819.7	7769.9	7711.7	7665.9	7607.6	7557.7	7524.5
22.5°	7919.7	7857.2	7815.6	7749.0	7690.8	7636.8	7582.7	7528.6	7474.5	7432.9	7395.4
25°	7744.9	7678.3	7632.6	7578.5	7524.5	7482.9	7416.3	7383.1	7329.0	7291.5	7254.0
27.5°	7495.2	7445.4	7403.8	7349.7	7304.0	7270.8	7220.8	7187.6	7141.7	7108.5	7079.4
30°	7129.4	7087.8	7050.3	6996.2	6963.0	6933.9	6888.0	6858.9	6825.7	6788.2	6779.9
32.5°	6638.5	6605.1	6567.8	6530.3	6505.3	6488.7	6451.2	6434.6	6401.4	6380.5	6359.8
35°	5898.1	5869.0	5848.2	5831.6	5823.2	5827.4	5819.1	5835.7	5844.0	5839.9	5844.0
37.5°	4929.0	4912.3	4920.6	4933.1	4974.7	5028.8	5078.7	5153.5	5203.5	5253.5	5299.2
40°	3847.5	3860.0	3893.2	3968.1	4076.3	4197.0	4309.3	4450.7	4592.1	4691.9	4783.3
42.5°	2903.3	2940.8	3023.8	3132.1	3294.4	3473.1	3647.9	3855.7	4026.4	4192.7	4309.3
45°	2183.7	2233.6	2341.8	2491.6	2670.3	2878.3	3098.8	3331.7	3535.6	3706.1	3835.0
47.5°	1701.3	1747.0	1855.2	2013.2	2233.6	2450.0	2678.7	2919.9	3132.1	3298.5	3410.8
50°	1343.5	1401.7	1497.4	1663.8	1884.3	2113.0	2350.2	2587.1	2786.9	2928.3	3028.1
52.5°	1056.5	1110.6	1202.0	1376.8	1601.5	1830.2	2050.5	2283.6	2458.2	2595.5	2662.1
55°	819.4	869.4	964.9	1110.6	1322.7	1547.4	1767.7	1967.5	2129.6	2229.5	2291.9
57.5°	623.9	661.4	728.0	873.5	1064.9	1272.7	1460.0	1659.7	1784.5	1855.2	1896.6
60°	474.2	503.3	574.1	686.4	861.0	1039.9	1197.9	1347.7	1447.6	1505.8	1547.4
62.5°	357.7	391.0	440.9	536.6	669.6	815.3	948.3	1060.6	1143.8	1181.3	1210.4
65°	245.3	270.3	307.8	382.6	495.0	598.9	703.0	786.2	840.3	881.9	898.5
67.5°	183.0	199.6	220.5	278.7	357.7	440.9	511.6	569.8	628.2	644.8	673.9
70°	137.3	149.8	170.5	212.1	257.8	316.0	374.4	407.6	449.2	478.4	486.7
72.5°	87.3	91.4	112.3	137.3	174.6	212.1	249.6	278.7	303.7	320.3	328.5
75°	50.0	74.8	74.8	99.8	124.8	141.4	166.4	187.1	199.6	212.1	212.1
77.5°	33.2	45.7	50.0	62.3	74.8	95.7	116.4	128.9	141.4	145.5	145.5
80°	29.1	33.2	33.2	45.7	54.1	70.7	83.2	87.3	95.7	99.8	108.2
82.5°	12.5	16.6	20.7	33.2	37.5	37.5	50.0	54.1	62.3	66.6	66.6
85°	4.1	8.4	8.4	12.5	20.7	25.0	29.1	33.2	37.5	37.5	41.6
87.5°	4.1	4.1	0.0	4.1	8.4	8.4	16.6	16.6	16.6	25.0	25.0
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: P248728

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5	8518.5
2.5°	8443.7	8447.8	8431.2	8427.1	8418.7	8422.8	8431.2
5°	8289.8	8293.9	8277.3	8260.7	8260.7	8256.4	8260.7
7.5°	8144.1	8148.4	8123.4	8115.0	8098.4	8102.7	8102.7
10°	7998.6	7998.6	7961.3	7957.0	7944.5	7940.4	7940.4
12.5°	7857.2	7844.7	7815.6	7799.0	7807.4	7782.4	7782.4
15°	7732.4	7711.7	7674.2	7661.7	7640.9	7632.6	7632.6
17.5°	7603.4	7586.8	7553.6	7528.6	7503.6	7499.5	7503.6
20°	7478.6	7462.0	7420.4	7403.8	7383.1	7383.1	7374.7
22.5°	7353.8	7337.2	7299.9	7287.4	7258.3	7258.3	7262.4
25°	7224.9	7212.4	7170.8	7162.6	7158.5	7141.7	7150.1
27.5°	7050.3	7041.9	7008.7	6996.2	6979.6	6975.5	6983.7
30°	6730.0	6717.5	6692.6	6680.1	6651.0	6655.1	6663.4
32.5°	6330.7	6314.1	6280.7	6268.2	6243.4	6235.0	6239.1
35°	5831.6	5819.1	5790.0	5790.0	5765.0	5756.6	5765.0
37.5°	5324.2	5336.5	5324.2	5336.5	5324.2	5319.9	5324.2
40°	4845.8	4891.5	4899.8	4945.6	4929.0	4953.9	4949.7
42.5°	4388.2	4463.0	4492.3	4529.6	4521.4	4538.0	4550.5
45°	3926.4	3988.9	4018.0	4043.0	4047.1	4055.5	4059.6
47.5°	3489.7	3539.7	3543.8	3572.9	3568.8	3568.8	3581.3
50°	3082.2	3115.4	3123.7	3144.5	3127.9	3119.6	3123.7
52.5°	2703.7	2736.9	2728.5	2736.9	2716.2	2707.8	2711.9
55°	2316.8	2333.4	2333.4	2333.4	2308.5	2308.5	2308.5
57.5°	1921.6	1925.9	1917.5	1921.6	1917.5	1892.5	1888.4
60°	1559.9	1559.9	1555.6	1559.9	1547.4	1534.9	1534.9
62.5°	1218.6	1227.0	1243.6	1227.0	1218.6	1227.0	1214.5
65°	911.0	927.6	923.3	931.7	927.6	927.6	919.2
67.5°	686.4	690.5	694.6	698.9	698.9	698.9	698.9
70°	503.3	515.8	511.6	511.6	511.6	511.6	536.6
72.5°	336.9	353.5	349.4	357.7	357.7	366.0	357.7
75°	228.7	245.3	237.1	249.6	245.3	237.1	257.8
77.5°	153.9	162.3	166.4	170.5	166.4	162.3	166.4
80°	108.2	116.4	112.3	116.4	116.4	116.4	120.7
82.5°	66.6	79.1	74.8	79.1	74.8	79.1	79.1
85°	45.7	50.0	41.6	50.0	45.7	45.7	54.1
87.5°	29.1	25.0	25.0	29.1	25.0	29.1	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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