

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: P248719

Luminaire Tested: **LD8B150D010 ER8B150935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248719
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13738.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

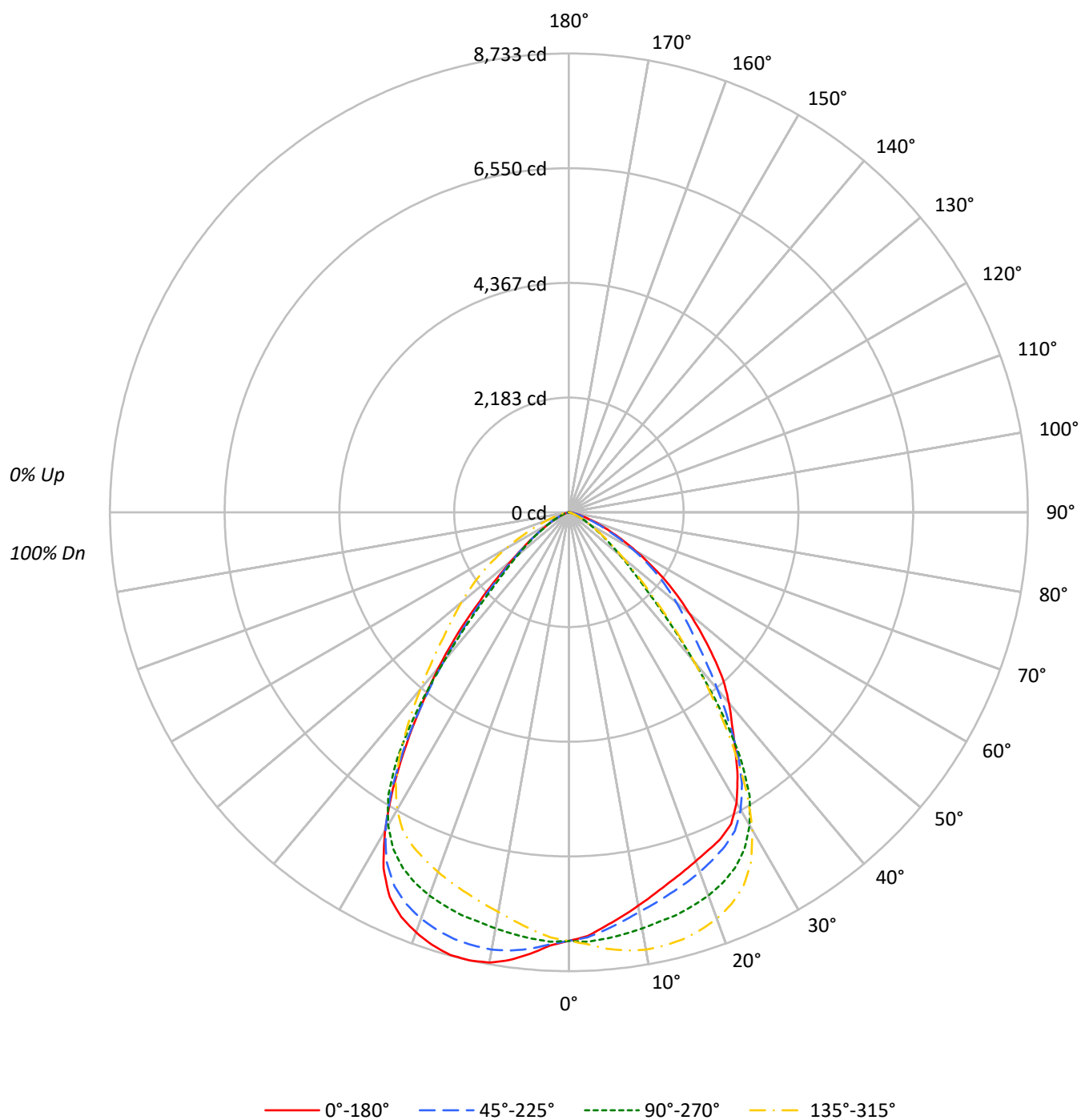
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103	109	106	104	101		102	100	98		99	97	95		95	94	92
2	105	99	94	89	102	97	92	88		93	90	86		90	87	84		87	85	83
3	98	90	83	78	95	88	82	78		85	80	76		83	79	75		80	77	74
4	91	82	75	70	89	80	74	69		78	73	68		76	71	67		74	70	67
5	85	75	68	62	83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	61	56	78	68	61	56		66	60	55		65	59	55		63	58	55
7	75	63	56	51	73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	59	51	46	69	58	51	46		57	50	46		56	50	46		55	49	46
9	66	54	47	42	65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39	61	50	44	39		49	43	39		48	43	39		48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	251495	251495	251495	251495
5°	244816	252084	261085	252084
10°	238043	251758	272455	251758
15°	233285	253251	278420	253251
20°	231699	254699	279137	254699
25°	232915	254187	274649	254187
30°	227157	244882	249283	244882
35°	207781	213623	202684	213623
40°	190763	148601	155179	148601
45°	169500	90655	104893	90655
50°	143472	60556	67248	60556
55°	118824	41321	43676	41321
60°	90628	27506	27753	27506
65°	64216	17139	15695	17139
70°	46315	11486	10422	11486
75°	29416	5707	4742	5707
80°	20528	4244	3516	4244
85°	18327	0	1380	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.3	5.7
10°-20°	2248.0	16.4
20°-30°	3403.9	24.8
30°-40°	3411.5	24.8
40°-50°	2142.3	15.6
50°-60°	1141.6	8.3
60°-70°	469.5	3.4
70°-80°	124.0	0.9
80°-90°	21.0	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°	6428.1	46.8
0°-40°	9839.7	71.6
0°-60°	13123.5	95.5
0°-90°	13738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13738.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8156	8156	8156	8156	8156	
5°	7909	8144	8435	8144	7909	746
15°	7308	7933	8721	7933	7308	2067
25°	6846	7471	8072	7471	6846	3140
35°	5520	5675	5384	5675	5520	3458
45°	3887	2079	2405	2079	3887	2989
55°	2210	769	812	769	2210	1971
65°	880	235	215	235	880	913
75°	247	48	40	48	247	280
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°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8072.2	8064.2	8060.3	8068.3	8072.2	8088.1	8084.2	8092.1	8092.1	8096.2	8104.0
5°	7909.0	7904.9	7909.0	7909.0	7924.9	7940.8	7936.8	7948.8	7956.7	7976.7	7984.5
7.5°	7757.7	7757.7	7753.6	7769.5	7777.5	7801.4	7797.3	7817.3	7829.3	7849.1	7877.0
10°	7602.3	7602.3	7606.2	7618.2	7622.3	7658.0	7658.0	7685.9	7701.8	7721.8	7757.7
12.5°	7451.0	7451.0	7474.9	7466.9	7482.8	7510.6	7522.6	7550.5	7574.4	7614.2	7650.1
15°	7307.5	7307.5	7315.6	7335.4	7347.4	7383.3	7403.1	7435.1	7462.9	7502.8	7554.6
17.5°	7184.1	7180.2	7184.1	7208.1	7232.0	7263.8	7279.7	7319.5	7347.4	7399.2	7447.0
20°	7060.7	7068.7	7068.7	7088.6	7104.5	7144.3	7160.2	7204.1	7235.9	7283.6	7339.5
22.5°	6953.2	6949.2	6949.2	6977.1	6989.1	7024.8	7040.7	7080.5	7116.4	7156.3	7208.1
25°	6845.6	6837.6	6853.7	6857.6	6865.5	6905.3	6917.3	6945.1	6981.0	7016.9	7068.7
27.5°	6686.3	6678.4	6682.4	6698.3	6710.2	6742.0	6750.1	6777.9	6805.8	6837.6	6881.5
30°	6379.6	6371.8	6367.8	6395.7	6407.6	6431.4	6443.4	6491.2	6499.1	6535.0	6566.8
32.5°	5973.4	5969.5	5977.5	6001.3	6013.3	6045.2	6061.1	6089.0	6108.8	6128.8	6160.6
35°	5519.6	5511.5	5519.6	5543.5	5543.5	5571.3	5583.3	5595.1	5591.2	5595.1	5587.2
37.5°	5097.5	5093.4	5097.5	5109.3	5097.5	5109.3	5097.5	5073.5	5029.8	4981.9	4934.0
40°	4739.0	4742.9	4719.1	4735.0	4691.1	4683.3	4639.5	4579.7	4492.1	4396.6	4261.2
42.5°	4356.7	4344.8	4328.9	4336.7	4301.0	4273.0	4201.3	4125.8	4014.1	3855.0	3691.6
45°	3886.8	3882.8	3874.8	3870.9	3846.9	3819.1	3759.3	3671.7	3548.3	3385.0	3189.8
47.5°	3428.8	3416.8	3416.8	3420.8	3392.9	3389.0	3341.1	3265.5	3158.0	2998.7	2795.6
50°	2990.7	2986.7	2994.7	3010.6	2990.7	2982.8	2951.0	2899.2	2803.6	2668.2	2476.9
52.5°	2596.4	2592.5	2600.5	2620.4	2612.3	2620.4	2588.6	2548.7	2485.0	2353.5	2186.3
55°	2210.2	2210.2	2210.2	2234.0	2234.0	2234.0	2218.1	2194.3	2134.5	2039.0	1883.7
57.5°	1808.0	1811.9	1835.9	1839.8	1835.9	1843.9	1839.8	1815.9	1776.2	1708.5	1589.0
60°	1469.5	1469.5	1481.5	1493.4	1489.3	1493.4	1493.4	1481.5	1441.6	1385.9	1290.3
62.5°	1162.8	1174.8	1166.8	1174.8	1190.7	1174.8	1166.8	1158.9	1131.0	1095.1	1015.5
65°	880.1	888.1	888.1	892.0	884.0	888.1	872.2	860.2	844.3	804.5	752.7
67.5°	669.1	669.1	669.1	669.1	665.0	661.1	657.1	645.2	617.3	601.4	545.5
70°	513.7	489.8	489.8	489.8	489.8	493.9	481.9	466.0	458.0	430.1	390.3
72.5°	342.4	350.5	342.4	342.4	334.6	338.5	322.6	314.6	306.7	290.8	266.9
75°	246.9	227.0	234.9	239.0	227.0	234.9	219.0	203.1	203.1	191.1	179.2
77.5°	159.3	155.4	159.3	163.3	159.3	155.4	147.4	139.3	139.3	135.4	123.4
80°	115.6	111.5	111.5	111.5	107.5	111.5	103.6	103.6	95.6	91.6	83.6
82.5°	75.7	75.7	71.6	75.7	71.6	75.7	63.8	63.8	63.8	59.7	51.8
85°	51.8	43.8	43.8	47.9	39.8	47.9	43.8	39.8	35.9	35.9	31.8
87.5°	23.9	27.9	23.9	27.9	23.9	23.9	27.9	23.9	23.9	15.9	15.9
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°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8116.0	8119.9	8119.9	8136.0	8143.8	8147.8	8147.8	8179.7	8167.8	8175.8	8183.7
5°	8000.6	8024.4	8032.4	8032.4	8076.2	8092.1	8108.0	8143.8	8147.8	8171.7	8199.6
7.5°	7889.0	7916.8	7932.9	7968.6	7996.5	8024.4	8072.2	8096.2	8119.9	8151.9	8187.6
10°	7781.4	7813.4	7845.2	7873.1	7916.8	7952.7	7984.5	8040.3	8068.3	8112.0	8159.7
12.5°	7678.0	7721.8	7749.6	7797.3	7845.2	7877.0	7924.9	7976.7	8020.4	8064.2	8119.9
15°	7586.4	7638.2	7670.0	7721.8	7773.6	7817.3	7869.1	7932.9	7964.7	8016.5	8068.3
17.5°	7486.7	7542.6	7582.4	7630.1	7693.9	7741.6	7785.5	7849.1	7889.0	7944.7	8004.5
20°	7383.3	7439.0	7486.7	7534.6	7598.3	7646.0	7697.8	7761.6	7805.4	7861.1	7909.0
22.5°	7259.8	7311.6	7363.3	7419.0	7482.8	7522.6	7582.4	7638.2	7685.9	7737.7	7785.5
25°	7100.5	7164.3	7204.1	7255.8	7307.5	7351.3	7415.1	7470.8	7510.6	7558.5	7602.3
27.5°	6913.3	6961.2	6993.0	7036.8	7088.6	7128.4	7176.1	7232.0	7271.8	7315.6	7347.4
30°	6594.7	6638.6	6666.5	6698.3	6750.1	6786.0	6825.8	6877.4	6905.3	6937.3	6965.1
32.5°	6176.5	6212.4	6228.3	6252.3	6288.2	6323.9	6355.9	6399.6	6411.6	6431.4	6431.4
35°	5571.3	5579.2	5575.3	5583.3	5599.2	5619.0	5646.9	5674.8	5690.7	5690.7	5678.9
37.5°	4862.4	4814.7	4762.9	4723.1	4711.1	4703.1	4719.1	4731.0	4747.0	4754.9	4735.0
40°	4125.8	4018.2	3902.7	3799.1	3727.5	3695.7	3683.7	3691.6	3691.6	3719.4	3719.4
42.5°	3492.6	3325.2	3154.1	2998.7	2895.1	2815.6	2779.7	2779.7	2783.6	2803.6	2815.6
45°	2966.9	2755.8	2556.6	2385.5	2242.0	2138.5	2090.8	2078.8	2074.9	2082.7	2110.6
47.5°	2564.6	2345.6	2138.5	1927.5	1776.2	1672.6	1628.8	1612.8	1596.9	1612.8	1616.9
50°	2250.1	2023.1	1804.1	1592.9	1433.6	1342.0	1286.3	1262.3	1258.4	1258.4	1266.4
52.5°	1963.2	1752.3	1533.3	1318.2	1150.9	1063.3	1011.5	999.6	983.7	999.6	999.6
55°	1692.4	1481.5	1266.4	1063.3	923.8	832.4	784.5	768.6	760.6	772.5	772.5
57.5°	1397.9	1218.6	1019.6	836.3	697.0	633.2	597.3	577.5	573.4	581.4	573.4
60°	1146.9	995.6	824.3	657.1	549.6	481.9	454.0	446.0	438.0	446.0	446.0
62.5°	907.9	780.6	641.1	513.7	422.1	374.4	342.4	342.4	338.5	338.5	342.4
65°	673.0	573.4	473.9	366.4	294.7	258.8	234.9	234.9	231.0	234.9	231.0
67.5°	489.8	422.1	342.4	266.9	211.1	191.1	175.2	163.3	171.3	163.3	159.3
70°	358.5	302.6	246.9	203.1	163.3	143.4	131.5	127.4	119.5	119.5	119.5
72.5°	239.0	203.1	167.2	131.5	107.5	87.5	83.6	75.7	67.7	71.6	79.7
75°	159.3	135.4	119.5	95.6	71.6	71.6	47.9	47.9	39.8	47.9	35.9
77.5°	111.5	91.6	71.6	59.7	47.9	43.8	31.8	31.8	27.9	27.9	27.9
80°	79.7	67.7	51.8	43.8	31.8	31.8	27.9	23.9	19.8	19.8	23.9
82.5°	47.9	35.9	35.9	31.8	19.8	15.9	12.0	15.9	8.0	8.0	8.0
85°	27.9	23.9	19.8	12.0	8.0	8.0	3.9	0.0	3.9	3.9	0.0
87.5°	15.9	8.0	8.0	3.9	0.0	3.9	3.9	0.0	0.0	0.0	8.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8203.7	8199.6	8207.6	8207.6	8231.5	8227.4	8239.4	8239.4	8231.5	8235.5	8251.4
5°	8231.5	8243.5	8267.3	8287.3	8323.0	8339.1	8358.9	8378.9	8382.8	8394.8	8406.8
7.5°	8231.5	8271.4	8299.2	8335.0	8382.8	8410.7	8454.5	8490.4	8506.3	8526.1	8550.0
10°	8215.5	8255.3	8307.1	8346.9	8406.8	8450.5	8494.3	8550.0	8574.0	8605.8	8637.7
12.5°	8183.7	8227.4	8283.2	8335.0	8402.7	8442.5	8498.2	8550.0	8585.9	8629.7	8665.6
15°	8136.0	8187.6	8239.4	8291.2	8362.8	8410.7	8462.5	8522.2	8558.1	8605.8	8637.7
17.5°	8060.3	8116.0	8163.8	8211.5	8279.2	8335.0	8382.8	8438.6	8474.5	8514.3	8558.1
20°	7968.6	8020.4	8072.2	8112.0	8179.7	8227.4	8279.2	8331.0	8358.9	8366.9	8434.6
22.5°	7853.2	7889.0	7928.8	7992.6	8032.4	8076.2	8124.0	8171.7	8199.6	8243.5	8267.3
25°	7661.9	7697.8	7741.6	7769.5	7817.3	7853.2	7900.9	7952.7	7968.6	8000.6	8024.4
27.5°	7395.2	7415.1	7435.1	7458.8	7486.7	7506.7	7534.6	7558.5	7574.4	7590.3	7606.2
30°	6973.0	6973.0	6973.0	6957.1	6969.1	6981.0	6985.0	6981.0	6981.0	6977.1	6977.1
32.5°	6415.5	6383.7	6347.8	6316.0	6304.1	6288.2	6280.1	6268.2	6248.3	6236.4	6240.3
35°	5662.8	5591.2	5547.4	5507.6	5475.8	5451.9	5439.9	5427.9	5424.0	5408.1	5392.0
37.5°	4723.1	4671.3	4639.5	4615.6	4587.7	4563.8	4567.7	4571.8	4583.6	4575.7	4579.7
40°	3727.5	3715.5	3727.5	3699.6	3691.6	3699.6	3719.4	3747.5	3763.4	3779.3	3807.1
42.5°	2835.4	2855.3	2883.3	2883.3	2895.1	2911.2	2934.9	2978.8	3002.6	3030.5	3062.4
45°	2134.5	2158.4	2194.3	2206.1	2214.2	2234.0	2262.0	2297.8	2313.7	2337.6	2365.5
47.5°	1644.7	1660.6	1680.5	1700.5	1720.3	1728.3	1756.2	1756.2	1776.2	1792.1	1800.0
50°	1282.3	1298.2	1314.1	1326.1	1334.1	1346.1	1353.9	1365.9	1369.8	1377.9	1381.8
52.5°	1003.5	1023.5	1023.5	1031.4	1043.3	1055.3	1051.4	1055.3	1059.2	1059.2	1071.2
55°	784.5	784.5	796.5	796.5	804.5	800.4	804.5	804.5	804.5	804.5	808.4
57.5°	585.3	589.4	601.4	593.4	589.4	597.3	589.4	597.3	593.4	601.4	589.4
60°	450.0	450.0	454.0	454.0	458.0	458.0	458.0	454.0	454.0	450.0	450.0
62.5°	338.5	342.4	346.5	342.4	342.4	342.4	338.5	338.5	334.6	330.5	330.5
65°	227.0	223.1	231.0	223.1	227.0	227.0	223.1	227.0	215.1	219.0	215.1
67.5°	163.3	159.3	155.4	159.3	155.4	151.3	151.3	155.4	159.3	147.4	147.4
70°	107.5	111.5	107.5	111.5	115.6	115.6	111.5	107.5	111.5	103.6	107.5
72.5°	67.7	67.7	67.7	67.7	67.7	71.6	71.6	71.6	63.8	63.8	59.7
75°	31.8	43.8	35.9	31.8	43.8	43.8	39.8	39.8	35.9	35.9	35.9
77.5°	31.8	23.9	23.9	23.9	23.9	23.9	23.9	23.9	19.8	23.9	19.8
80°	15.9	15.9	15.9	12.0	15.9	15.9	19.8	15.9	15.9	12.0	19.8
82.5°	8.0	8.0	8.0	0.0	3.9	8.0	8.0	3.9	8.0	8.0	3.9
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: P248719

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8247.4	8243.5	8247.4	8251.4	8247.4	8243.5	8247.4	8251.4	8235.5	8231.5	8239.4
5°	8422.7	8422.7	8430.5	8434.6	8430.5	8422.7	8422.7	8406.8	8394.8	8382.8	8378.9
7.5°	8574.0	8582.0	8589.9	8593.8	8589.9	8582.0	8574.0	8550.0	8526.1	8506.3	8490.4
10°	8665.6	8677.6	8693.5	8701.3	8693.5	8677.6	8665.6	8637.7	8605.8	8574.0	8550.0
12.5°	8705.4	8717.4	8737.2	8733.3	8737.2	8717.4	8705.4	8665.6	8629.7	8585.9	8550.0
15°	8677.6	8693.5	8713.3	8721.3	8713.3	8693.5	8677.6	8637.7	8605.8	8558.1	8522.2
17.5°	8589.9	8613.8	8625.8	8637.7	8625.8	8613.8	8589.9	8558.1	8514.3	8474.5	8438.6
20°	8470.4	8486.4	8502.3	8506.3	8502.3	8486.4	8470.4	8434.6	8366.9	8358.9	8331.0
22.5°	8299.2	8311.2	8346.9	8335.0	8346.9	8311.2	8299.2	8267.3	8243.5	8199.6	8171.7
25°	8052.2	8064.2	8068.3	8072.2	8068.3	8064.2	8052.2	8024.4	8000.6	7968.6	7952.7
27.5°	7626.2	7626.2	7634.1	7638.2	7634.1	7626.2	7626.2	7606.2	7590.3	7574.4	7558.5
30°	6981.0	6981.0	6981.0	7001.0	6981.0	6981.0	6981.0	6977.1	6977.1	6981.0	6981.0
32.5°	6236.4	6228.3	6220.5	6228.3	6220.5	6228.3	6236.4	6240.3	6236.4	6248.3	6268.2
35°	5392.0	5388.1	5400.1	5384.2	5400.1	5388.1	5392.0	5392.0	5408.1	5424.0	5427.9
37.5°	4583.6	4575.7	4591.6	4575.7	4591.6	4575.7	4583.6	4579.7	4575.7	4583.6	4571.8
40°	3815.2	3823.0	3823.0	3855.0	3823.0	3823.0	3815.2	3807.1	3779.3	3763.4	3747.5
42.5°	3078.3	3102.3	3094.2	3118.2	3094.2	3102.3	3078.3	3062.4	3030.5	3002.6	2978.8
45°	2381.4	2397.4	2397.4	2405.3	2397.4	2397.4	2381.4	2365.5	2337.6	2313.7	2297.8
47.5°	1827.8	1827.8	1827.8	1831.9	1827.8	1827.8	1827.8	1800.0	1792.1	1776.2	1756.2
50°	1389.8	1393.8	1397.9	1401.8	1397.9	1393.8	1389.8	1381.8	1377.9	1369.8	1365.9
52.5°	1067.3	1071.2	1063.3	1071.2	1063.3	1071.2	1067.3	1071.2	1059.2	1059.2	1055.3
55°	808.4	804.5	808.4	812.4	808.4	804.5	808.4	808.4	804.5	804.5	804.5
57.5°	593.4	585.3	585.3	585.3	585.3	585.3	593.4	589.4	601.4	593.4	597.3
60°	442.1	446.0	446.0	450.0	446.0	446.0	442.1	450.0	450.0	454.0	454.0
62.5°	326.5	338.5	330.5	338.5	330.5	338.5	326.5	330.5	330.5	334.6	338.5
65°	211.1	211.1	211.1	215.1	211.1	211.1	211.1	215.1	219.0	215.1	227.0
67.5°	143.4	147.4	155.4	151.3	155.4	147.4	143.4	147.4	147.4	159.3	155.4
70°	115.6	103.6	103.6	115.6	103.6	103.6	115.6	107.5	103.6	111.5	107.5
72.5°	67.7	59.7	67.7	67.7	67.7	59.7	67.7	59.7	63.8	63.8	71.6
75°	35.9	31.8	27.9	39.8	27.9	31.8	35.9	35.9	35.9	35.9	39.8
77.5°	23.9	19.8	27.9	27.9	27.9	19.8	23.9	19.8	23.9	19.8	23.9
80°	12.0	15.9	12.0	19.8	12.0	15.9	12.0	19.8	12.0	15.9	15.9
82.5°	3.9	8.0	8.0	8.0	8.0	8.0	3.9	3.9	8.0	8.0	3.9
85°	0.0	8.0	3.9	3.9	3.9	8.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.0	0.0	3.9	0.0	0.0	3.9	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: P248719

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8239.4	8227.4	8231.5	8207.6	8207.6	8199.6	8203.7	8183.7	8175.8	8167.8	8179.7
5°	8358.9	8339.1	8323.0	8287.3	8267.3	8243.5	8231.5	8199.6	8171.7	8147.8	8143.8
7.5°	8454.5	8410.7	8382.8	8335.0	8299.2	8271.4	8231.5	8187.6	8151.9	8119.9	8096.2
10°	8494.3	8450.5	8406.8	8346.9	8307.1	8255.3	8215.5	8159.7	8112.0	8068.3	8040.3
12.5°	8498.2	8442.5	8402.7	8335.0	8283.2	8227.4	8183.7	8119.9	8064.2	8020.4	7976.7
15°	8462.5	8410.7	8362.8	8291.2	8239.4	8187.6	8136.0	8068.3	8016.5	7964.7	7932.9
17.5°	8382.8	8335.0	8279.2	8211.5	8163.8	8116.0	8060.3	8004.5	7944.7	7889.0	7849.1
20°	8279.2	8227.4	8179.7	8112.0	8072.2	8020.4	7968.6	7909.0	7861.1	7805.4	7761.6
22.5°	8124.0	8076.2	8032.4	7992.6	7928.8	7889.0	7853.2	7785.5	7737.7	7685.9	7638.2
25°	7900.9	7853.2	7817.3	7769.5	7741.6	7697.8	7661.9	7602.3	7558.5	7510.6	7470.8
27.5°	7534.6	7506.7	7486.7	7458.8	7435.1	7415.1	7395.2	7347.4	7315.6	7271.8	7232.0
30°	6985.0	6981.0	6969.1	6957.1	6973.0	6973.0	6973.0	6965.1	6937.3	6905.3	6877.4
32.5°	6280.1	6288.2	6304.1	6316.0	6347.8	6383.7	6415.5	6431.4	6431.4	6411.6	6399.6
35°	5439.9	5451.9	5475.8	5507.6	5547.4	5591.2	5662.8	5678.9	5690.7	5690.7	5674.8
37.5°	4567.7	4563.8	4587.7	4615.6	4639.5	4671.3	4723.1	4735.0	4754.9	4747.0	4731.0
40°	3719.4	3699.6	3691.6	3699.6	3727.5	3715.5	3727.5	3719.4	3719.4	3691.6	3691.6
42.5°	2934.9	2911.2	2895.1	2883.3	2883.3	2855.3	2835.4	2815.6	2803.6	2783.6	2779.7
45°	2262.0	2234.0	2214.2	2206.1	2194.3	2158.4	2134.5	2110.6	2082.7	2074.9	2078.8
47.5°	1756.2	1728.3	1720.3	1700.5	1680.5	1660.6	1644.7	1616.9	1612.8	1596.9	1612.8
50°	1353.9	1346.1	1334.1	1326.1	1314.1	1298.2	1282.3	1266.4	1258.4	1258.4	1262.3
52.5°	1051.4	1055.3	1043.3	1031.4	1023.5	1023.5	1003.5	999.6	999.6	983.7	999.6
55°	804.5	800.4	804.5	796.5	796.5	784.5	784.5	772.5	772.5	760.6	768.6
57.5°	589.4	597.3	589.4	593.4	601.4	589.4	585.3	573.4	581.4	573.4	577.5
60°	458.0	458.0	458.0	454.0	454.0	450.0	450.0	446.0	446.0	438.0	446.0
62.5°	338.5	342.4	342.4	342.4	346.5	342.4	338.5	342.4	338.5	338.5	342.4
65°	223.1	227.0	227.0	223.1	231.0	223.1	227.0	231.0	234.9	231.0	234.9
67.5°	151.3	151.3	155.4	159.3	155.4	159.3	163.3	159.3	163.3	171.3	163.3
70°	111.5	115.6	115.6	111.5	107.5	111.5	107.5	119.5	119.5	119.5	127.4
72.5°	71.6	71.6	67.7	67.7	67.7	67.7	67.7	79.7	71.6	67.7	75.7
75°	39.8	43.8	43.8	31.8	35.9	43.8	31.8	35.9	47.9	39.8	47.9
77.5°	23.9	23.9	23.9	23.9	23.9	23.9	31.8	27.9	27.9	27.9	31.8
80°	19.8	15.9	15.9	12.0	15.9	15.9	15.9	23.9	19.8	19.8	23.9
82.5°	8.0	8.0	3.9	0.0	8.0	8.0	8.0	8.0	8.0	8.0	15.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	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: P248719

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8147.8	8147.8	8143.8	8136.0	8119.9	8119.9	8116.0	8104.0	8096.2	8092.1	8092.1
5°	8108.0	8092.1	8076.2	8032.4	8032.4	8024.4	8000.6	7984.5	7976.7	7956.7	7948.8
7.5°	8072.2	8024.4	7996.5	7968.6	7932.9	7916.8	7889.0	7877.0	7849.1	7829.3	7817.3
10°	7984.5	7952.7	7916.8	7873.1	7845.2	7813.4	7781.4	7757.7	7721.8	7701.8	7685.9
12.5°	7924.9	7877.0	7845.2	7797.3	7749.6	7721.8	7678.0	7650.1	7614.2	7574.4	7550.5
15°	7869.1	7817.3	7773.6	7721.8	7670.0	7638.2	7586.4	7554.6	7502.8	7462.9	7435.1
17.5°	7785.5	7741.6	7693.9	7630.1	7582.4	7542.6	7486.7	7447.0	7399.2	7347.4	7319.5
20°	7697.8	7646.0	7598.3	7534.6	7486.7	7439.0	7383.3	7339.5	7283.6	7235.9	7204.1
22.5°	7582.4	7522.6	7482.8	7419.0	7363.3	7311.6	7259.8	7208.1	7156.3	7116.4	7080.5
25°	7415.1	7351.3	7307.5	7255.8	7204.1	7164.3	7100.5	7068.7	7016.9	6981.0	6945.1
27.5°	7176.1	7128.4	7088.6	7036.8	6993.0	6961.2	6913.3	6881.5	6837.6	6805.8	6777.9
30°	6825.8	6786.0	6750.1	6698.3	6666.5	6638.6	6594.7	6566.8	6535.0	6499.1	6491.2
32.5°	6355.9	6323.9	6288.2	6252.3	6228.3	6212.4	6176.5	6160.6	6128.8	6108.8	6089.0
35°	5646.9	5619.0	5599.2	5583.3	5575.3	5579.2	5571.3	5587.2	5595.1	5591.2	5595.1
37.5°	4719.1	4703.1	4711.1	4723.1	4762.9	4814.7	4862.4	4934.0	4981.9	5029.8	5073.5
40°	3683.7	3695.7	3727.5	3799.1	3902.7	4018.2	4125.8	4261.2	4396.6	4492.1	4579.7
42.5°	2779.7	2815.6	2895.1	2998.7	3154.1	3325.2	3492.6	3691.6	3855.0	4014.1	4125.8
45°	2090.8	2138.5	2242.0	2385.5	2556.6	2755.8	2966.9	3189.8	3385.0	3548.3	3671.7
47.5°	1628.8	1672.6	1776.2	1927.5	2138.5	2345.6	2564.6	2795.6	2998.7	3158.0	3265.5
50°	1286.3	1342.0	1433.6	1592.9	1804.1	2023.1	2250.1	2476.9	2668.2	2803.6	2899.2
52.5°	1011.5	1063.3	1150.9	1318.2	1533.3	1752.3	1963.2	2186.3	2353.5	2485.0	2548.7
55°	784.5	832.4	923.8	1063.3	1266.4	1481.5	1692.4	1883.7	2039.0	2134.5	2194.3
57.5°	597.3	633.2	697.0	836.3	1019.6	1218.6	1397.9	1589.0	1708.5	1776.2	1815.9
60°	454.0	481.9	549.6	657.1	824.3	995.6	1146.9	1290.3	1385.9	1441.6	1481.5
62.5°	342.4	374.4	422.1	513.7	641.1	780.6	907.9	1015.5	1095.1	1131.0	1158.9
65°	234.9	258.8	294.7	366.4	473.9	573.4	673.0	752.7	804.5	844.3	860.2
67.5°	175.2	191.1	211.1	266.9	342.4	422.1	489.8	545.5	601.4	617.3	645.2
70°	131.5	143.4	163.3	203.1	246.9	302.6	358.5	390.3	430.1	458.0	466.0
72.5°	83.6	87.5	107.5	131.5	167.2	203.1	239.0	266.9	290.8	306.7	314.6
75°	47.9	71.6	71.6	95.6	119.5	135.4	159.3	179.2	191.1	203.1	203.1
77.5°	31.8	43.8	47.9	59.7	71.6	91.6	111.5	123.4	135.4	139.3	139.3
80°	27.9	31.8	31.8	43.8	51.8	67.7	79.7	83.6	91.6	95.6	103.6
82.5°	12.0	15.9	19.8	31.8	35.9	35.9	47.9	51.8	59.7	63.8	63.8
85°	3.9	8.0	8.0	12.0	19.8	23.9	27.9	31.8	35.9	35.9	39.8
87.5°	3.9	3.9	0.0	3.9	8.0	8.0	15.9	15.9	15.9	23.9	23.9
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: P248719

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8	8155.8
2.5°	8084.2	8088.1	8072.2	8068.3	8060.3	8064.2	8072.2
5°	7936.8	7940.8	7924.9	7909.0	7909.0	7904.9	7909.0
7.5°	7797.3	7801.4	7777.5	7769.5	7753.6	7757.7	7757.7
10°	7658.0	7658.0	7622.3	7618.2	7606.2	7602.3	7602.3
12.5°	7522.6	7510.6	7482.8	7466.9	7474.9	7451.0	7451.0
15°	7403.1	7383.3	7347.4	7335.4	7315.6	7307.5	7307.5
17.5°	7279.7	7263.8	7232.0	7208.1	7184.1	7180.2	7184.1
20°	7160.2	7144.3	7104.5	7088.6	7068.7	7068.7	7060.7
22.5°	7040.7	7024.8	6989.1	6977.1	6949.2	6949.2	6953.2
25°	6917.3	6905.3	6865.5	6857.6	6853.7	6837.6	6845.6
27.5°	6750.1	6742.0	6710.2	6698.3	6682.4	6678.4	6686.3
30°	6443.4	6431.4	6407.6	6395.7	6367.8	6371.8	6379.6
32.5°	6061.1	6045.2	6013.3	6001.3	5977.5	5969.5	5973.4
35°	5583.3	5571.3	5543.5	5543.5	5519.6	5511.5	5519.6
37.5°	5097.5	5109.3	5097.5	5109.3	5097.5	5093.4	5097.5
40°	4639.5	4683.3	4691.1	4735.0	4719.1	4742.9	4739.0
42.5°	4201.3	4273.0	4301.0	4336.7	4328.9	4344.8	4356.7
45°	3759.3	3819.1	3846.9	3870.9	3874.8	3882.8	3886.8
47.5°	3341.1	3389.0	3392.9	3420.8	3416.8	3416.8	3428.8
50°	2951.0	2982.8	2990.7	3010.6	2994.7	2986.7	2990.7
52.5°	2588.6	2620.4	2612.3	2620.4	2600.5	2592.5	2596.4
55°	2218.1	2234.0	2234.0	2234.0	2210.2	2210.2	2210.2
57.5°	1839.8	1843.9	1835.9	1839.8	1835.9	1811.9	1808.0
60°	1493.4	1493.4	1489.3	1493.4	1481.5	1469.5	1469.5
62.5°	1166.8	1174.8	1190.7	1174.8	1166.8	1174.8	1162.8
65°	872.2	888.1	884.0	892.0	888.1	888.1	880.1
67.5°	657.1	661.1	665.0	669.1	669.1	669.1	669.1
70°	481.9	493.9	489.8	489.8	489.8	489.8	513.7
72.5°	322.6	338.5	334.6	342.4	342.4	350.5	342.4
75°	219.0	234.9	227.0	239.0	234.9	227.0	246.9
77.5°	147.4	155.4	159.3	163.3	159.3	155.4	159.3
80°	103.6	111.5	107.5	111.5	111.5	111.5	115.6
82.5°	63.8	75.7	71.6	75.7	71.6	75.7	75.7
85°	43.8	47.9	39.8	47.9	43.8	43.8	51.8
87.5°	27.9	23.9	23.9	27.9	23.9	27.9	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)