

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: P248899

Luminaire Tested: **LD8B150D010 ER8B150840 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248899
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 ER8B150840 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12336.0 lumens
Efficiency: N/A
Efficacy: 77.8 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

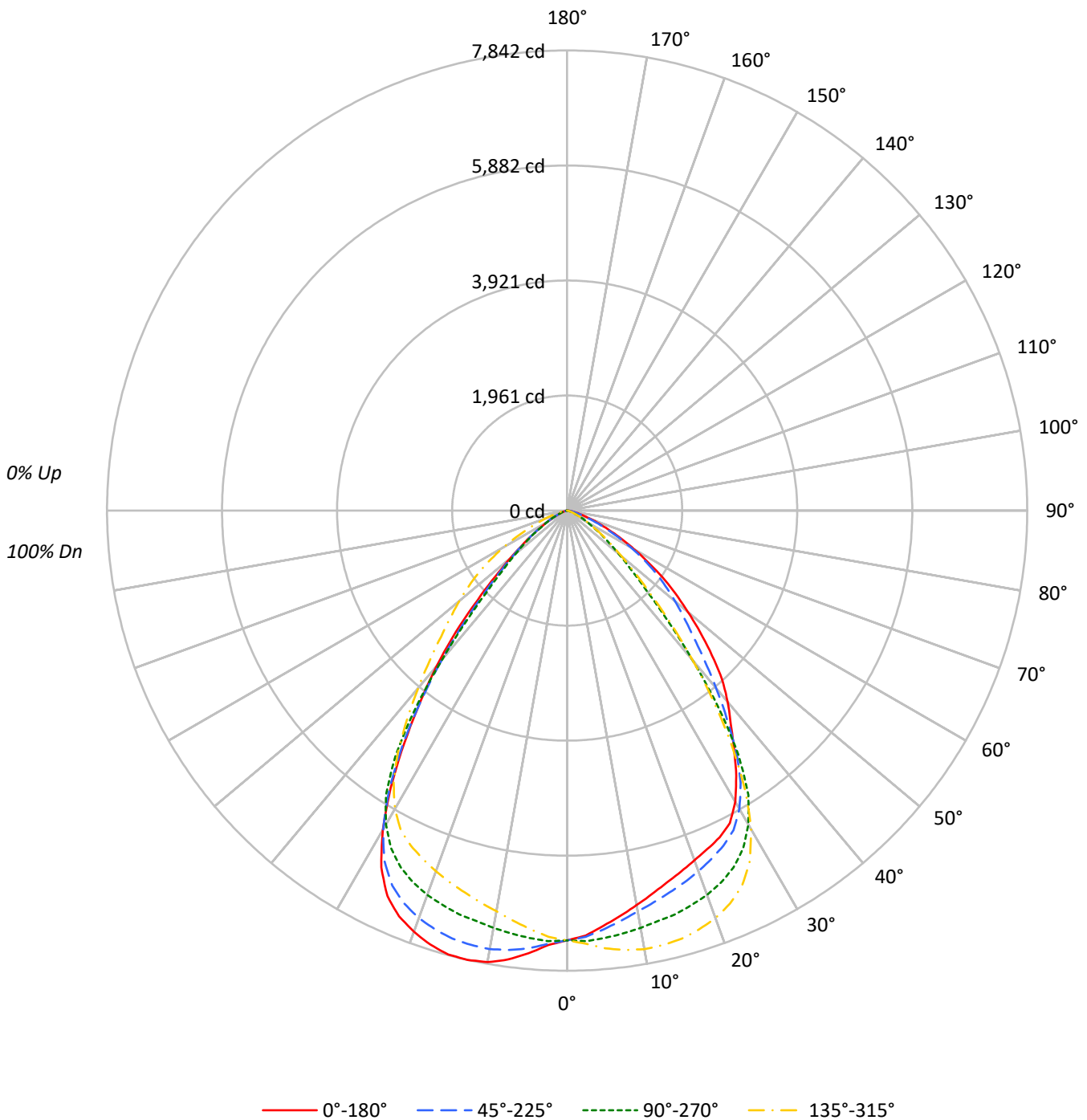
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	225830	225830	225830	225830
5°	219830	226358	234443	226358
10°	213748	226063	244650	226063
15°	209480	227405	250007	227405
20°	208052	228706	250650	228706
25°	209146	228247	246620	228247
30°	203977	219893	223845	219893
35°	186576	191823	181998	191823
40°	171297	133434	139343	133434
45°	152200	81401	94187	81401
50°	128826	54377	60388	54377
55°	106700	37106	39219	37106
60°	81377	24700	24916	24700
65°	57664	15388	14090	15388
70°	41591	10314	9359	10314
75°	26414	5123	4265	5123
80°	18433	3818	3161	3818
85°	16452	0	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.1	5.7
10°-20°	2018.5	16.4
20°-30°	3056.5	24.8
30°-40°	3063.4	24.8
40°-50°	1923.6	15.6
50°-60°	1025.1	8.3
60°-70°	421.5	3.4
70°-80°	111.4	0.9
80°-90°	18.8	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°	5772.1	46.8
0°-40°	8835.5	71.6
0°-60°	11784.3	95.5
0°-90°	12336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12336.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7324	7324	7324	7324	7324	
5°	7102	7313	7574	7313	7102	670
15°	6562	7123	7831	7123	6562	1856
25°	6147	6708	7248	6708	6147	2819
35°	4956	5096	4835	5096	4956	3105
45°	3490	1867	2160	1867	3490	2684
55°	1985	690	730	690	1985	1769
65°	790	211	193	211	790	820
75°	222	43	36	43	222	251
85°	46	0	4	0	46	51
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°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7248.4	7241.2	7237.7	7244.9	7248.4	7262.7	7259.2	7266.2	7266.2	7269.9	7277.0
5°	7101.8	7098.1	7101.8	7101.8	7116.1	7130.4	7126.8	7137.6	7144.7	7162.6	7169.7
7.5°	6966.0	6966.0	6962.3	6976.6	6983.8	7005.3	7001.6	7019.5	7030.3	7048.1	7073.1
10°	6826.4	6826.4	6830.0	6840.7	6844.4	6876.5	6876.5	6901.5	6915.8	6933.7	6966.0
12.5°	6690.6	6690.6	6712.1	6704.9	6719.1	6744.2	6754.9	6779.9	6801.4	6837.2	6869.4
15°	6561.8	6561.8	6569.0	6586.8	6597.6	6629.8	6647.6	6676.3	6701.3	6737.1	6783.6
17.5°	6451.0	6447.4	6451.0	6472.5	6493.9	6522.5	6536.8	6572.5	6597.6	6644.1	6687.1
20°	6340.1	6347.3	6347.3	6365.2	6379.4	6415.2	6429.5	6468.9	6497.5	6540.3	6590.5
22.5°	6243.6	6240.0	6240.0	6265.1	6275.8	6307.9	6322.2	6357.9	6390.2	6425.9	6472.5
25°	6147.0	6139.8	6154.2	6157.8	6164.8	6200.6	6211.3	6236.4	6268.6	6300.8	6347.3
27.5°	6004.0	5996.9	6000.4	6014.7	6025.4	6054.0	6061.2	6086.2	6111.3	6139.8	6179.3
30°	5728.6	5721.5	5718.0	5743.0	5753.7	5775.1	5785.8	5828.8	5835.9	5868.1	5896.7
32.5°	5363.8	5360.3	5367.5	5388.9	5399.6	5428.3	5442.6	5467.6	5485.4	5503.4	5531.9
35°	4956.3	4949.1	4956.3	4977.8	4977.8	5002.8	5013.5	5024.1	5020.6	5024.1	5017.1
37.5°	4577.3	4573.6	4577.3	4587.9	4577.3	4587.9	4577.3	4555.8	4516.5	4473.5	4430.5
40°	4255.4	4258.9	4237.5	4251.8	4212.4	4205.3	4166.0	4112.3	4033.7	3947.9	3826.3
42.5°	3912.1	3901.4	3887.1	3894.2	3862.1	3836.9	3772.6	3704.7	3604.5	3461.6	3314.8
45°	3490.1	3486.6	3479.4	3475.8	3454.4	3429.3	3375.6	3297.0	3186.2	3039.6	2864.3
47.5°	3078.9	3068.1	3068.1	3071.7	3046.6	3043.1	3000.1	2932.3	2835.7	2692.7	2510.3
50°	2685.4	2681.9	2689.1	2703.4	2685.4	2678.4	2649.8	2603.3	2517.5	2395.9	2224.2
52.5°	2331.5	2327.9	2335.1	2352.9	2345.7	2352.9	2324.4	2288.6	2231.4	2113.3	1963.2
55°	1984.7	1984.7	1984.7	2006.0	2006.0	2006.0	1991.7	1970.4	1916.7	1830.9	1691.5
57.5°	1623.5	1627.0	1648.5	1652.0	1648.5	1655.7	1652.0	1630.6	1594.9	1534.1	1426.8
60°	1319.5	1319.5	1330.3	1341.0	1337.4	1341.0	1341.0	1330.3	1294.5	1244.5	1158.7
62.5°	1044.2	1054.9	1047.7	1054.9	1069.2	1054.9	1047.7	1040.6	1015.6	983.4	911.8
65°	790.3	797.5	797.5	801.0	793.8	797.5	783.2	772.4	758.2	722.4	675.9
67.5°	600.8	600.8	600.8	600.8	597.1	593.6	590.1	579.3	554.3	540.0	489.8
70°	461.3	439.8	439.8	439.8	439.8	443.5	432.7	418.5	411.2	386.2	350.5
72.5°	307.5	314.7	307.5	307.5	300.4	303.9	289.7	282.5	275.4	261.1	239.6
75°	221.7	203.9	210.9	214.6	203.9	210.9	196.6	182.4	182.4	171.6	160.9
77.5°	143.1	139.5	143.1	146.6	143.1	139.5	132.3	125.1	125.1	121.6	110.8
80°	103.8	100.1	100.1	100.1	96.6	100.1	93.0	93.0	85.8	82.3	75.1
82.5°	68.0	68.0	64.3	68.0	64.3	68.0	57.3	57.3	57.3	53.6	46.5
85°	46.5	39.3	39.3	43.0	35.8	43.0	39.3	35.8	32.2	32.2	28.6
87.5°	21.5	25.0	21.5	25.0	21.5	21.5	25.0	21.5	21.5	14.3	14.3
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°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7287.7	7291.3	7291.3	7305.7	7312.7	7316.3	7316.3	7345.0	7334.2	7341.4	7348.5
5°	7184.1	7205.4	7212.7	7212.7	7252.0	7266.2	7280.5	7312.7	7316.3	7337.8	7362.8
7.5°	7083.9	7108.9	7123.3	7155.4	7180.4	7205.4	7248.4	7269.9	7291.3	7320.0	7352.0
10°	6987.3	7016.0	7044.6	7069.6	7108.9	7141.1	7169.7	7219.7	7244.9	7284.2	7327.0
12.5°	6894.4	6933.7	6958.8	7001.6	7044.6	7073.1	7116.1	7162.6	7201.9	7241.2	7291.3
15°	6812.2	6858.7	6887.2	6933.7	6980.2	7019.5	7066.1	7123.3	7151.9	7198.4	7244.9
17.5°	6722.7	6772.9	6808.6	6851.5	6908.7	6951.5	6991.0	7048.1	7083.9	7133.9	7187.6
20°	6629.8	6679.8	6722.7	6765.6	6822.9	6865.7	6912.2	6969.5	7008.8	7058.8	7101.8
22.5°	6519.0	6565.5	6611.8	6661.9	6719.1	6754.9	6808.6	6858.7	6901.5	6948.0	6991.0
25°	6375.9	6433.2	6468.9	6515.3	6561.8	6601.1	6658.3	6708.4	6744.2	6787.1	6826.4
27.5°	6207.8	6250.8	6279.3	6318.6	6365.2	6400.9	6443.7	6493.9	6529.7	6569.0	6597.6
30°	5921.7	5961.1	5986.1	6014.7	6061.2	6093.4	6129.2	6175.6	6200.6	6229.3	6254.3
32.5°	5546.2	5578.4	5592.7	5614.2	5646.4	5678.5	5707.2	5746.5	5757.3	5775.1	5775.1
35°	5002.8	5009.8	5006.3	5013.5	5027.8	5045.6	5070.6	5095.7	5109.9	5109.9	5099.3
37.5°	4366.2	4323.4	4276.8	4241.1	4230.3	4223.1	4237.5	4248.1	4262.6	4269.6	4251.8
40°	3704.7	3608.2	3504.4	3411.4	3347.1	3318.5	3307.8	3314.8	3314.8	3339.8	3339.8
42.5°	3136.1	2985.9	2832.2	2692.7	2599.6	2528.3	2496.0	2496.0	2499.5	2517.5	2528.3
45°	2664.1	2474.5	2295.7	2142.0	2013.2	1920.2	1877.4	1866.6	1863.1	1870.2	1895.2
47.5°	2302.9	2106.3	1920.2	1730.8	1594.9	1501.9	1462.6	1448.2	1433.9	1448.2	1451.9
50°	2020.5	1816.6	1620.0	1430.4	1287.3	1205.0	1155.0	1133.5	1130.0	1130.0	1137.2
52.5°	1762.9	1573.4	1376.8	1183.7	1033.4	954.8	908.3	897.6	883.3	897.6	897.6
55°	1519.7	1330.3	1137.2	954.8	829.6	747.4	704.4	690.2	683.0	693.7	693.7
57.5°	1255.2	1094.2	915.5	751.0	625.8	568.6	536.4	518.5	514.9	522.1	514.9
60°	1029.9	894.0	740.2	590.1	493.5	432.7	407.7	400.5	393.3	400.5	400.5
62.5°	815.3	700.9	575.7	461.3	379.0	336.2	307.5	307.5	303.9	303.9	307.5
65°	604.4	514.9	425.5	329.0	264.6	232.4	210.9	210.9	207.4	210.9	207.4
67.5°	439.8	379.0	307.5	239.6	189.6	171.6	157.3	146.6	153.8	146.6	143.1
70°	321.9	271.7	221.7	182.4	146.6	128.8	118.0	114.4	107.3	107.3	107.3
72.5°	214.6	182.4	150.1	118.0	96.6	78.6	75.1	68.0	60.8	64.3	71.5
75°	143.1	121.6	107.3	85.8	64.3	64.3	43.0	43.0	35.8	43.0	32.2
77.5°	100.1	82.3	64.3	53.6	43.0	39.3	28.6	28.6	25.0	25.0	25.0
80°	71.5	60.8	46.5	39.3	28.6	28.6	25.0	21.5	17.8	17.8	21.5
82.5°	43.0	32.2	32.2	28.6	17.8	14.3	10.7	14.3	7.2	7.2	7.2
85°	25.0	21.5	17.8	10.7	7.2	7.2	3.5	0.0	3.5	3.5	0.0
87.5°	14.3	7.2	7.2	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.2
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°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7366.5	7362.8	7370.0	7370.0	7391.5	7387.8	7398.6	7398.6	7391.5	7395.0	7409.3
5°	7391.5	7402.2	7423.6	7441.5	7473.6	7488.0	7505.9	7523.8	7527.3	7538.1	7548.8
7.5°	7391.5	7427.3	7452.3	7484.4	7527.3	7552.4	7591.7	7623.9	7638.2	7656.0	7677.5
10°	7377.1	7412.8	7459.3	7495.1	7548.8	7588.1	7627.4	7677.5	7699.0	7727.5	7756.2
12.5°	7348.5	7387.8	7437.9	7484.4	7545.2	7580.9	7631.0	7677.5	7709.7	7749.0	7781.2
15°	7305.7	7352.0	7398.6	7445.1	7509.4	7552.4	7598.9	7652.5	7684.7	7727.5	7756.2
17.5°	7237.7	7287.7	7330.7	7373.5	7434.3	7484.4	7527.3	7577.4	7609.6	7645.4	7684.7
20°	7155.4	7201.9	7248.4	7284.2	7345.0	7387.8	7434.3	7480.8	7505.9	7513.1	7573.9
22.5°	7051.8	7083.9	7119.6	7176.9	7212.7	7252.0	7294.9	7337.8	7362.8	7402.2	7423.6
25°	6880.0	6912.2	6951.5	6976.6	7019.5	7051.8	7094.6	7141.1	7155.4	7184.1	7205.4
27.5°	6640.5	6658.3	6676.3	6697.6	6722.7	6740.6	6765.6	6787.1	6801.4	6815.7	6830.0
30°	6261.4	6261.4	6261.4	6247.1	6257.9	6268.6	6272.1	6268.6	6268.6	6265.1	6265.1
32.5°	5760.8	5732.2	5700.0	5671.5	5660.7	5646.4	5639.2	5628.5	5610.7	5599.9	5603.5
35°	5084.9	5020.6	4981.3	4945.5	4917.0	4895.5	4884.7	4874.0	4870.5	4856.2	4841.8
37.5°	4241.1	4194.6	4166.0	4144.5	4119.5	4098.0	4101.5	4105.2	4115.8	4108.8	4112.3
40°	3347.1	3336.3	3347.1	3322.0	3314.8	3322.0	3339.8	3365.0	3379.3	3393.6	3418.6
42.5°	2546.1	2563.9	2589.0	2589.0	2599.6	2614.1	2635.4	2674.8	2696.2	2721.2	2749.9
45°	1916.7	1938.2	1970.4	1981.0	1988.2	2006.0	2031.2	2063.3	2077.6	2099.0	2124.1
47.5°	1476.9	1491.2	1509.0	1526.9	1544.7	1552.0	1577.0	1577.0	1594.9	1609.2	1616.3
50°	1151.5	1165.7	1180.0	1190.8	1198.0	1208.7	1215.8	1226.5	1230.1	1237.3	1240.8
52.5°	901.1	919.0	919.0	926.1	936.9	947.6	944.1	947.6	951.1	951.1	961.9
55°	704.4	704.4	715.2	715.2	722.4	718.7	722.4	722.4	722.4	722.4	725.9
57.5°	525.6	529.3	540.0	532.8	529.3	536.4	529.3	536.4	532.8	540.0	529.3
60°	404.0	404.0	407.7	407.7	411.2	411.2	411.2	407.7	407.7	404.0	404.0
62.5°	303.9	307.5	311.2	307.5	307.5	307.5	303.9	303.9	300.4	296.7	296.7
65°	203.9	200.3	207.4	200.3	203.9	203.9	200.3	203.9	193.1	196.6	193.1
67.5°	146.6	143.1	139.5	143.1	139.5	135.9	135.9	139.5	143.1	132.3	132.3
70°	96.6	100.1	96.6	100.1	103.8	103.8	100.1	96.6	100.1	93.0	96.6
72.5°	60.8	60.8	60.8	60.8	60.8	64.3	64.3	64.3	57.3	57.3	53.6
75°	28.6	39.3	32.2	28.6	39.3	39.3	35.8	35.8	32.2	32.2	32.2
77.5°	28.6	21.5	21.5	21.5	21.5	21.5	21.5	21.5	17.8	21.5	17.8
80°	14.3	14.3	14.3	10.7	14.3	14.3	17.8	14.3	14.3	10.7	17.8
82.5°	7.2	7.2	7.2	0.0	3.5	7.2	7.2	3.5	7.2	7.2	3.5
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: P248899

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7405.8	7402.2	7405.8	7409.3	7405.8	7402.2	7405.8	7409.3	7395.0	7391.5	7398.6
5°	7563.1	7563.1	7570.2	7573.9	7570.2	7563.1	7563.1	7548.8	7538.1	7527.3	7523.8
7.5°	7699.0	7706.2	7713.2	7716.8	7713.2	7706.2	7699.0	7677.5	7656.0	7638.2	7623.9
10°	7781.2	7792.0	7806.3	7813.3	7806.3	7792.0	7781.2	7756.2	7727.5	7699.0	7677.5
12.5°	7817.0	7827.8	7845.6	7842.0	7845.6	7827.8	7817.0	7781.2	7749.0	7709.7	7677.5
15°	7792.0	7806.3	7824.1	7831.3	7824.1	7806.3	7792.0	7756.2	7727.5	7684.7	7652.5
17.5°	7713.2	7734.7	7745.5	7756.2	7745.5	7734.7	7713.2	7684.7	7645.4	7609.6	7577.4
20°	7605.9	7620.4	7634.6	7638.2	7634.6	7620.4	7605.9	7573.9	7513.1	7505.9	7480.8
22.5°	7452.3	7463.0	7495.1	7484.4	7495.1	7463.0	7452.3	7423.6	7402.2	7362.8	7337.8
25°	7230.5	7241.2	7244.9	7248.4	7244.9	7241.2	7230.5	7205.4	7184.1	7155.4	7141.1
27.5°	6847.9	6847.9	6855.0	6858.7	6855.0	6847.9	6847.9	6830.0	6815.7	6801.4	6787.1
30°	6268.6	6268.6	6268.6	6286.6	6268.6	6268.6	6268.6	6265.1	6265.1	6268.6	6268.6
32.5°	5599.9	5592.7	5585.6	5592.7	5585.6	5592.7	5599.9	5603.5	5599.9	5610.7	5628.5
35°	4841.8	4838.2	4849.0	4834.7	4849.0	4838.2	4841.8	4841.8	4856.2	4870.5	4874.0
37.5°	4115.8	4108.8	4123.0	4108.8	4123.0	4108.8	4115.8	4112.3	4108.8	4115.8	4105.2
40°	3425.8	3432.9	3432.9	3461.6	3432.9	3432.9	3425.8	3418.6	3393.6	3379.3	3365.0
42.5°	2764.2	2785.7	2778.5	2800.0	2778.5	2785.7	2764.2	2749.9	2721.2	2696.2	2674.8
45°	2138.3	2152.8	2152.8	2159.8	2152.8	2152.8	2138.3	2124.1	2099.0	2077.6	2063.3
47.5°	1641.3	1641.3	1641.3	1645.0	1641.3	1641.3	1641.3	1616.3	1609.2	1594.9	1577.0
50°	1248.0	1251.5	1255.2	1258.8	1255.2	1251.5	1248.0	1240.8	1237.3	1230.1	1226.5
52.5°	958.3	961.9	954.8	961.9	954.8	961.9	958.3	961.9	951.1	951.1	947.6
55°	725.9	722.4	725.9	729.5	725.9	722.4	725.9	725.9	722.4	722.4	722.4
57.5°	532.8	525.6	525.6	525.6	525.6	525.6	532.8	529.3	540.0	532.8	536.4
60°	397.0	400.5	400.5	404.0	400.5	400.5	397.0	404.0	404.0	407.7	407.7
62.5°	293.2	303.9	296.7	303.9	296.7	303.9	293.2	296.7	296.7	300.4	303.9
65°	189.6	189.6	189.6	193.1	189.6	189.6	189.6	193.1	196.6	193.1	203.9
67.5°	128.8	132.3	139.5	135.9	139.5	132.3	128.8	132.3	132.3	143.1	139.5
70°	103.8	93.0	93.0	103.8	93.0	93.0	103.8	96.6	93.0	100.1	96.6
72.5°	60.8	53.6	60.8	60.8	60.8	53.6	60.8	53.6	57.3	57.3	64.3
75°	32.2	28.6	25.0	35.8	25.0	28.6	32.2	32.2	32.2	32.2	35.8
77.5°	21.5	17.8	25.0	25.0	25.0	17.8	21.5	17.8	21.5	17.8	21.5
80°	10.7	14.3	10.7	17.8	10.7	14.3	10.7	17.8	10.7	14.3	14.3
82.5°	3.5	7.2	7.2	7.2	7.2	7.2	3.5	3.5	7.2	7.2	3.5
85°	0.0	7.2	3.5	3.5	3.5	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	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: P248899

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7398.6	7387.8	7391.5	7370.0	7370.0	7362.8	7366.5	7348.5	7341.4	7334.2	7345.0
5°	7505.9	7488.0	7473.6	7441.5	7423.6	7402.2	7391.5	7362.8	7337.8	7316.3	7312.7
7.5°	7591.7	7552.4	7527.3	7484.4	7452.3	7427.3	7391.5	7352.0	7320.0	7291.3	7269.9
10°	7627.4	7588.1	7548.8	7495.1	7459.3	7412.8	7377.1	7327.0	7284.2	7244.9	7219.7
12.5°	7631.0	7580.9	7545.2	7484.4	7437.9	7387.8	7348.5	7291.3	7241.2	7201.9	7162.6
15°	7598.9	7552.4	7509.4	7445.1	7398.6	7352.0	7305.7	7244.9	7198.4	7151.9	7123.3
17.5°	7527.3	7484.4	7434.3	7373.5	7330.7	7287.7	7237.7	7187.6	7133.9	7083.9	7048.1
20°	7434.3	7387.8	7345.0	7284.2	7248.4	7201.9	7155.4	7101.8	7058.8	7008.8	6969.5
22.5°	7294.9	7252.0	7212.7	7176.9	7119.6	7083.9	7051.8	6991.0	6948.0	6901.5	6858.7
25°	7094.6	7051.8	7019.5	6976.6	6951.5	6912.2	6880.0	6826.4	6787.1	6744.2	6708.4
27.5°	6765.6	6740.6	6722.7	6697.6	6676.3	6658.3	6640.5	6597.6	6569.0	6529.7	6493.9
30°	6272.1	6268.6	6257.9	6247.1	6261.4	6261.4	6261.4	6254.3	6229.3	6200.6	6175.6
32.5°	5639.2	5646.4	5660.7	5671.5	5700.0	5732.2	5760.8	5775.1	5775.1	5757.3	5746.5
35°	4884.7	4895.5	4917.0	4945.5	4981.3	5020.6	5084.9	5099.3	5109.9	5109.9	5095.7
37.5°	4101.5	4098.0	4119.5	4144.5	4166.0	4194.6	4241.1	4251.8	4269.6	4262.6	4248.1
40°	3339.8	3322.0	3314.8	3322.0	3347.1	3336.3	3347.1	3339.8	3339.8	3314.8	3314.8
42.5°	2635.4	2614.1	2599.6	2589.0	2589.0	2563.9	2546.1	2528.3	2517.5	2499.5	2496.0
45°	2031.2	2006.0	1988.2	1981.0	1970.4	1938.2	1916.7	1895.2	1870.2	1863.1	1866.6
47.5°	1577.0	1552.0	1544.7	1526.9	1509.0	1491.2	1476.9	1451.9	1448.2	1433.9	1448.2
50°	1215.8	1208.7	1198.0	1190.8	1180.0	1165.7	1151.5	1137.2	1130.0	1130.0	1133.5
52.5°	944.1	947.6	936.9	926.1	919.0	919.0	901.1	897.6	897.6	883.3	897.6
55°	722.4	718.7	722.4	715.2	715.2	704.4	704.4	693.7	693.7	683.0	690.2
57.5°	529.3	536.4	529.3	532.8	540.0	529.3	525.6	514.9	522.1	514.9	518.5
60°	411.2	411.2	411.2	407.7	407.7	404.0	404.0	400.5	400.5	393.3	400.5
62.5°	303.9	307.5	307.5	307.5	311.2	307.5	303.9	307.5	303.9	303.9	307.5
65°	200.3	203.9	203.9	200.3	207.4	200.3	203.9	207.4	210.9	207.4	210.9
67.5°	135.9	135.9	139.5	143.1	139.5	143.1	146.6	143.1	146.6	153.8	146.6
70°	100.1	103.8	103.8	100.1	96.6	100.1	96.6	107.3	107.3	107.3	114.4
72.5°	64.3	64.3	60.8	60.8	60.8	60.8	60.8	71.5	64.3	60.8	68.0
75°	35.8	39.3	39.3	28.6	32.2	39.3	28.6	32.2	43.0	35.8	43.0
77.5°	21.5	21.5	21.5	21.5	21.5	21.5	28.6	25.0	25.0	25.0	28.6
80°	17.8	14.3	14.3	10.7	14.3	14.3	14.3	21.5	17.8	17.8	21.5
82.5°	7.2	7.2	3.5	0.0	7.2	7.2	7.2	7.2	7.2	7.2	14.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	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: P248899

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7316.3	7316.3	7312.7	7305.7	7291.3	7291.3	7287.7	7277.0	7269.9	7266.2	7266.2
5°	7280.5	7266.2	7252.0	7212.7	7212.7	7205.4	7184.1	7169.7	7162.6	7144.7	7137.6
7.5°	7248.4	7205.4	7180.4	7155.4	7123.3	7108.9	7083.9	7073.1	7048.1	7030.3	7019.5
10°	7169.7	7141.1	7108.9	7069.6	7044.6	7016.0	6987.3	6966.0	6933.7	6915.8	6901.5
12.5°	7116.1	7073.1	7044.6	7001.6	6958.8	6933.7	6894.4	6869.4	6837.2	6801.4	6779.9
15°	7066.1	7019.5	6980.2	6933.7	6887.2	6858.7	6812.2	6783.6	6737.1	6701.3	6676.3
17.5°	6991.0	6951.5	6908.7	6851.5	6808.6	6772.9	6722.7	6687.1	6644.1	6597.6	6572.5
20°	6912.2	6865.7	6822.9	6765.6	6722.7	6679.8	6629.8	6590.5	6540.3	6497.5	6468.9
22.5°	6808.6	6754.9	6719.1	6661.9	6611.8	6565.5	6519.0	6472.5	6425.9	6390.2	6357.9
25°	6658.3	6601.1	6561.8	6515.3	6468.9	6433.2	6375.9	6347.3	6300.8	6268.6	6236.4
27.5°	6443.7	6400.9	6365.2	6318.6	6279.3	6250.8	6207.8	6179.3	6139.8	6111.3	6086.2
30°	6129.2	6093.4	6061.2	6014.7	5986.1	5961.1	5921.7	5896.7	5868.1	5835.9	5828.8
32.5°	5707.2	5678.5	5646.4	5614.2	5592.7	5578.4	5546.2	5531.9	5503.4	5485.4	5467.6
35°	5070.6	5045.6	5027.8	5013.5	5006.3	5009.8	5002.8	5017.1	5024.1	5020.6	5024.1
37.5°	4237.5	4223.1	4230.3	4241.1	4276.8	4323.4	4366.2	4430.5	4473.5	4516.5	4555.8
40°	3307.8	3318.5	3347.1	3411.4	3504.4	3608.2	3704.7	3826.3	3947.9	4033.7	4112.3
42.5°	2496.0	2528.3	2599.6	2692.7	2832.2	2985.9	3136.1	3314.8	3461.6	3604.5	3704.7
45°	1877.4	1920.2	2013.2	2142.0	2295.7	2474.5	2664.1	2864.3	3039.6	3186.2	3297.0
47.5°	1462.6	1501.9	1594.9	1730.8	1920.2	2106.3	2302.9	2510.3	2692.7	2835.7	2932.3
50°	1155.0	1205.0	1287.3	1430.4	1620.0	1816.6	2020.5	2224.2	2395.9	2517.5	2603.3
52.5°	908.3	954.8	1033.4	1183.7	1376.8	1573.4	1762.9	1963.2	2113.3	2231.4	2288.6
55°	704.4	747.4	829.6	954.8	1137.2	1330.3	1519.7	1691.5	1830.9	1916.7	1970.4
57.5°	536.4	568.6	625.8	751.0	915.5	1094.2	1255.2	1426.8	1534.1	1594.9	1630.6
60°	407.7	432.7	493.5	590.1	740.2	894.0	1029.9	1158.7	1244.5	1294.5	1330.3
62.5°	307.5	336.2	379.0	461.3	575.7	700.9	815.3	911.8	983.4	1015.6	1040.6
65°	210.9	232.4	264.6	329.0	425.5	514.9	604.4	675.9	722.4	758.2	772.4
67.5°	157.3	171.6	189.6	239.6	307.5	379.0	439.8	489.8	540.0	554.3	579.3
70°	118.0	128.8	146.6	182.4	221.7	271.7	321.9	350.5	386.2	411.2	418.5
72.5°	75.1	78.6	96.6	118.0	150.1	182.4	214.6	239.6	261.1	275.4	282.5
75°	43.0	64.3	64.3	85.8	107.3	121.6	143.1	160.9	171.6	182.4	182.4
77.5°	28.6	39.3	43.0	53.6	64.3	82.3	100.1	110.8	121.6	125.1	125.1
80°	25.0	28.6	28.6	39.3	46.5	60.8	71.5	75.1	82.3	85.8	93.0
82.5°	10.7	14.3	17.8	28.6	32.2	32.2	43.0	46.5	53.6	57.3	57.3
85°	3.5	7.2	7.2	10.7	17.8	21.5	25.0	28.6	32.2	32.2	35.8
87.5°	3.5	3.5	0.0	3.5	7.2	7.2	14.3	14.3	14.3	21.5	21.5
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: P248899

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5	7323.5
2.5°	7259.2	7262.7	7248.4	7244.9	7237.7	7241.2	7248.4
5°	7126.8	7130.4	7116.1	7101.8	7101.8	7098.1	7101.8
7.5°	7001.6	7005.3	6983.8	6976.6	6962.3	6966.0	6966.0
10°	6876.5	6876.5	6844.4	6840.7	6830.0	6826.4	6826.4
12.5°	6754.9	6744.2	6719.1	6704.9	6712.1	6690.6	6690.6
15°	6647.6	6629.8	6597.6	6586.8	6569.0	6561.8	6561.8
17.5°	6536.8	6522.5	6493.9	6472.5	6451.0	6447.4	6451.0
20°	6429.5	6415.2	6379.4	6365.2	6347.3	6347.3	6340.1
22.5°	6322.2	6307.9	6275.8	6265.1	6240.0	6240.0	6243.6
25°	6211.3	6200.6	6164.8	6157.8	6154.2	6139.8	6147.0
27.5°	6061.2	6054.0	6025.4	6014.7	6000.4	5996.9	6004.0
30°	5785.8	5775.1	5753.7	5743.0	5718.0	5721.5	5728.6
32.5°	5442.6	5428.3	5399.6	5388.9	5367.5	5360.3	5363.8
35°	5013.5	5002.8	4977.8	4977.8	4956.3	4949.1	4956.3
37.5°	4577.3	4587.9	4577.3	4587.9	4577.3	4573.6	4577.3
40°	4166.0	4205.3	4212.4	4251.8	4237.5	4258.9	4255.4
42.5°	3772.6	3836.9	3862.1	3894.2	3887.1	3901.4	3912.1
45°	3375.6	3429.3	3454.4	3475.8	3479.4	3486.6	3490.1
47.5°	3000.1	3043.1	3046.6	3071.7	3068.1	3068.1	3078.9
50°	2649.8	2678.4	2685.4	2703.4	2689.1	2681.9	2685.4
52.5°	2324.4	2352.9	2345.7	2352.9	2335.1	2327.9	2331.5
55°	1991.7	2006.0	2006.0	2006.0	1984.7	1984.7	1984.7
57.5°	1652.0	1655.7	1648.5	1652.0	1648.5	1627.0	1623.5
60°	1341.0	1341.0	1337.4	1341.0	1330.3	1319.5	1319.5
62.5°	1047.7	1054.9	1069.2	1054.9	1047.7	1054.9	1044.2
65°	783.2	797.5	793.8	801.0	797.5	797.5	790.3
67.5°	590.1	593.6	597.1	600.8	600.8	600.8	600.8
70°	432.7	443.5	439.8	439.8	439.8	439.8	461.3
72.5°	289.7	303.9	300.4	307.5	307.5	314.7	307.5
75°	196.6	210.9	203.9	214.6	210.9	203.9	221.7
77.5°	132.3	139.5	143.1	146.6	143.1	139.5	143.1
80°	93.0	100.1	96.6	100.1	100.1	100.1	103.8
82.5°	57.3	68.0	64.3	68.0	64.3	68.0	68.0
85°	39.3	43.0	35.8	43.0	39.3	39.3	46.5
87.5°	25.0	21.5	21.5	25.0	21.5	25.0	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)