

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: P248997

Luminaire Tested: **LD8B120D010 ER8B120835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248997
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: LD8B120D010 ER8B120835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12201.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

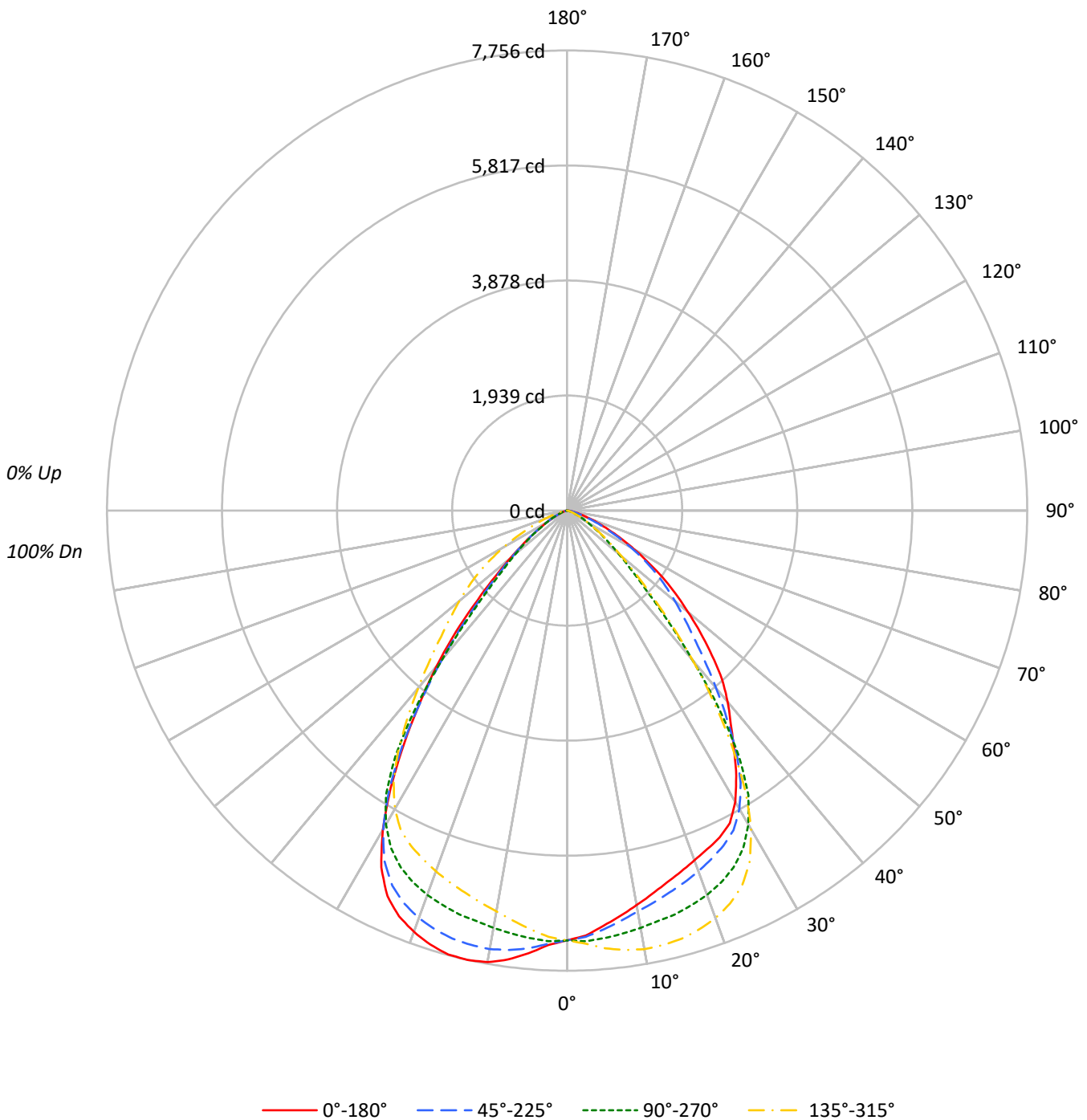
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	223357	223357	223357	223357
5°	217425	223882	231877	223882
10°	211409	223590	241973	223590
15°	207187	224918	247271	224918
20°	205775	226203	247907	226203
25°	206856	225750	243922	225750
30°	201744	217486	221395	217486
35°	184532	189723	180007	189723
40°	169421	131973	137817	131973
45°	150534	80511	93158	80511
50°	127421	53782	59726	53782
55°	105534	36698	38789	36698
60°	80489	24429	24644	24429
65°	57029	15220	13936	15220
70°	41131	10197	9250	10197
75°	26116	5064	4218	5064
80°	18220	3782	3125	3782
85°	16275	0	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.4	5.7
10°-20°	1996.5	16.4
20°-30°	3023.1	24.8
30°-40°	3029.9	24.8
40°-50°	1902.6	15.6
50°-60°	1013.9	8.3
60°-70°	416.9	3.4
70°-80°	110.1	0.9
80°-90°	18.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5709.0	46.8
0°-40°	8738.8	71.6
0°-60°	11655.3	95.5
0°-90°	12201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12201.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7243	7243	7243	7243	7243	
5°	7024	7233	7491	7233	7024	662
15°	6490	7045	7746	7045	6490	1836
25°	6080	6635	7169	6635	6080	2788
35°	4902	5040	4782	5040	4902	3071
45°	3452	1846	2136	1846	3452	2655
55°	1963	683	722	683	1963	1750
65°	782	209	191	209	782	811
75°	219	42	35	42	219	248
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°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7169.1	7162.0	7158.5	7165.6	7169.1	7183.2	7179.7	7186.7	7186.7	7190.4	7197.3
5°	7024.1	7020.5	7024.1	7024.1	7038.2	7052.3	7048.9	7059.5	7066.5	7084.2	7091.2
7.5°	6889.7	6889.7	6886.1	6900.2	6907.4	6928.6	6925.0	6942.7	6953.4	6971.0	6995.7
10°	6751.7	6751.7	6755.2	6765.9	6769.5	6801.2	6801.2	6826.0	6840.1	6857.9	6889.7
12.5°	6617.4	6617.4	6638.6	6631.5	6645.6	6670.4	6681.0	6705.7	6727.0	6762.4	6794.2
15°	6490.0	6490.0	6497.1	6514.7	6525.4	6557.2	6574.9	6603.2	6628.0	6663.4	6709.4
17.5°	6380.4	6376.9	6380.4	6401.6	6422.9	6451.1	6465.2	6500.6	6525.4	6571.4	6613.9
20°	6270.7	6277.9	6277.9	6295.5	6309.6	6345.0	6359.1	6398.1	6426.4	6468.7	6518.4
22.5°	6175.2	6171.8	6171.8	6196.5	6207.1	6238.9	6253.0	6288.4	6320.2	6355.6	6401.6
25°	6079.7	6072.6	6086.9	6090.4	6097.4	6132.7	6143.4	6168.1	6200.0	6231.9	6277.9
27.5°	5938.2	5931.3	5934.8	5948.9	5959.5	5987.7	5994.9	6019.6	6044.4	6072.6	6111.6
30°	5665.9	5658.9	5655.4	5680.1	5690.8	5711.9	5722.5	5765.0	5772.0	5803.9	5832.1
32.5°	5305.1	5301.6	5308.8	5329.9	5340.5	5368.9	5383.0	5407.8	5425.4	5443.1	5471.4
35°	4902.0	4894.9	4902.0	4923.3	4923.3	4948.0	4958.7	4969.1	4965.6	4969.1	4962.2
37.5°	4527.2	4523.5	4527.2	4537.6	4527.2	4537.6	4527.2	4505.9	4467.0	4424.5	4382.0
40°	4208.8	4212.3	4191.2	4205.3	4166.3	4159.3	4120.4	4067.3	3989.5	3904.7	3784.4
42.5°	3869.3	3858.7	3844.6	3851.5	3819.8	3794.9	3731.3	3664.2	3565.0	3423.7	3278.5
45°	3451.9	3448.4	3441.3	3437.8	3416.6	3391.8	3338.7	3260.9	3151.3	3006.3	2832.9
47.5°	3045.2	3034.6	3034.6	3038.1	3013.3	3009.8	2967.3	2900.2	2804.7	2663.2	2482.8
50°	2656.1	2652.6	2659.7	2673.8	2656.1	2649.1	2620.8	2574.8	2490.0	2369.7	2199.8
52.5°	2305.9	2302.5	2309.6	2327.2	2320.1	2327.2	2299.0	2263.6	2207.0	2090.2	1941.7
55°	1963.0	1963.0	1963.0	1984.1	1984.1	1984.1	1970.0	1948.8	1895.7	1810.8	1673.0
57.5°	1605.7	1609.2	1630.5	1634.0	1630.5	1637.6	1634.0	1612.7	1577.5	1517.4	1411.2
60°	1305.1	1305.1	1315.7	1326.4	1322.7	1326.4	1326.4	1315.7	1280.4	1230.9	1146.0
62.5°	1032.7	1043.4	1036.2	1043.4	1057.5	1043.4	1036.2	1029.2	1004.5	972.6	901.9
65°	781.6	788.7	788.7	792.2	785.1	788.7	774.6	764.0	749.9	714.5	668.5
67.5°	594.2	594.2	594.2	594.2	590.6	587.1	583.6	573.0	548.2	534.1	484.5
70°	456.2	435.0	435.0	435.0	435.0	438.6	428.0	413.9	406.7	382.0	346.6
72.5°	304.1	311.2	304.1	304.1	297.1	300.6	286.5	279.4	272.4	258.3	237.0
75°	219.2	201.6	208.6	212.3	201.6	208.6	194.5	180.4	180.4	169.7	159.1
77.5°	141.5	138.0	141.5	145.0	141.5	138.0	130.9	123.7	123.7	120.2	109.6
80°	102.6	99.0	99.0	99.0	95.5	99.0	92.0	92.0	84.9	81.4	74.2
82.5°	67.3	67.3	63.6	67.3	63.6	67.3	56.6	56.6	56.6	53.0	46.0
85°	46.0	38.9	38.9	42.5	35.4	42.5	38.9	35.4	31.9	31.9	28.2
87.5°	21.3	24.7	21.3	24.7	21.3	21.3	24.7	21.3	21.3	14.1	14.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7208.0	7211.5	7211.5	7225.7	7232.7	7236.2	7236.2	7264.6	7254.0	7261.1	7268.1
5°	7105.5	7126.6	7133.7	7133.7	7172.6	7186.7	7200.8	7232.7	7236.2	7257.5	7282.2
7.5°	7006.3	7031.1	7045.4	7077.1	7101.8	7126.6	7169.1	7190.4	7211.5	7239.9	7271.6
10°	6910.8	6939.2	6967.5	6992.2	7031.1	7063.0	7091.2	7140.7	7165.6	7204.5	7246.8
12.5°	6819.0	6857.9	6882.6	6925.0	6967.5	6995.7	7038.2	7084.2	7123.1	7162.0	7211.5
15°	6737.6	6783.6	6811.9	6857.9	6903.9	6942.7	6988.7	7045.4	7073.6	7119.6	7165.6
17.5°	6649.1	6698.7	6734.1	6776.5	6833.1	6875.5	6914.5	6971.0	7006.3	7055.8	7109.0
20°	6557.2	6606.7	6649.1	6691.6	6748.2	6790.6	6836.6	6893.2	6932.1	6981.6	7024.1
22.5°	6447.6	6493.6	6539.5	6589.0	6645.6	6681.0	6734.1	6783.6	6826.0	6872.0	6914.5
25°	6306.1	6362.7	6398.1	6444.0	6490.0	6528.9	6585.5	6635.0	6670.4	6712.9	6751.7
27.5°	6139.9	6182.4	6210.6	6249.5	6295.5	6330.9	6373.2	6422.9	6458.2	6497.1	6525.4
30°	5856.9	5895.9	5920.6	5948.9	5994.9	6026.8	6062.1	6108.0	6132.7	6161.1	6185.9
32.5°	5485.5	5517.4	5531.5	5552.8	5584.6	5616.4	5644.8	5683.6	5694.3	5711.9	5711.9
35°	4948.0	4955.0	4951.5	4958.7	4972.8	4990.4	5015.1	5039.9	5054.0	5054.0	5043.5
37.5°	4318.4	4276.0	4230.0	4194.7	4184.0	4176.9	4191.2	4201.7	4215.9	4222.9	4205.3
40°	3664.2	3568.7	3466.1	3374.0	3310.4	3282.2	3271.6	3278.5	3278.5	3303.3	3303.3
42.5°	3101.8	2953.2	2801.2	2663.2	2571.2	2500.6	2468.7	2468.7	2472.2	2490.0	2500.6
45°	2635.0	2447.4	2270.6	2118.6	1991.2	1899.2	1856.8	1846.2	1842.7	1849.7	1874.5
47.5°	2277.7	2083.2	1899.2	1711.8	1577.5	1485.5	1446.6	1432.3	1418.2	1432.3	1436.0
50°	1998.3	1796.7	1602.2	1414.7	1273.2	1191.8	1142.3	1121.1	1117.6	1117.6	1124.7
52.5°	1743.6	1556.2	1361.7	1170.7	1022.1	944.4	898.4	887.7	873.6	887.7	887.7
55°	1503.1	1315.7	1124.7	944.4	820.5	739.2	696.7	682.6	675.5	686.1	686.1
57.5°	1241.5	1082.2	905.5	742.7	619.0	562.4	530.5	512.9	509.2	516.4	509.2
60°	1018.6	884.2	732.1	583.6	488.1	428.0	403.2	396.1	389.0	396.1	396.1
62.5°	806.4	693.2	569.4	456.2	374.9	332.5	304.1	304.1	300.6	300.6	304.1
65°	597.7	509.2	420.9	325.4	261.7	229.9	208.6	208.6	205.1	208.6	205.1
67.5°	435.0	374.9	304.1	237.0	187.5	169.7	155.6	145.0	152.1	145.0	141.5
70°	318.4	268.7	219.2	180.4	145.0	127.4	116.8	113.1	106.1	106.1	106.1
72.5°	212.3	180.4	148.5	116.8	95.5	77.7	74.2	67.3	60.1	63.6	70.8
75°	141.5	120.2	106.1	84.9	63.6	63.6	42.5	42.5	35.4	42.5	31.9
77.5°	99.0	81.4	63.6	53.0	42.5	38.9	28.2	28.2	24.7	24.7	24.7
80°	70.8	60.1	46.0	38.9	28.2	28.2	24.7	21.3	17.6	17.6	21.3
82.5°	42.5	31.9	31.9	28.2	17.6	14.1	10.6	14.1	7.1	7.1	7.1
85°	24.7	21.3	17.6	10.6	7.1	7.1	3.5	0.0	3.5	3.5	0.0
87.5°	14.1	7.1	7.1	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.1
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°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7285.9	7282.2	7289.3	7289.3	7310.6	7307.0	7317.6	7317.6	7310.6	7314.1	7328.2
5°	7310.6	7321.2	7342.3	7360.1	7391.8	7406.1	7423.7	7441.5	7445.0	7455.6	7466.2
7.5°	7310.6	7346.0	7370.7	7402.5	7445.0	7469.7	7508.6	7540.5	7554.6	7572.2	7593.5
10°	7296.3	7331.7	7377.7	7413.1	7466.2	7505.1	7544.0	7593.5	7614.7	7643.0	7671.3
12.5°	7268.1	7307.0	7356.5	7402.5	7462.6	7498.0	7547.5	7593.5	7625.3	7664.2	7696.1
15°	7225.7	7271.6	7317.6	7363.6	7427.2	7469.7	7515.7	7568.7	7600.6	7643.0	7671.3
17.5°	7158.5	7208.0	7250.5	7292.8	7353.0	7402.5	7445.0	7494.5	7526.3	7561.7	7600.6
20°	7077.1	7123.1	7169.1	7204.5	7264.6	7307.0	7353.0	7399.0	7423.7	7430.9	7491.0
22.5°	6974.6	7006.3	7041.7	7098.4	7133.7	7172.6	7215.1	7257.5	7282.2	7321.2	7342.3
25°	6804.7	6836.6	6875.5	6900.2	6942.7	6974.6	7017.0	7063.0	7077.1	7105.5	7126.6
27.5°	6567.9	6585.5	6603.2	6624.4	6649.1	6666.9	6691.6	6712.9	6727.0	6741.1	6755.2
30°	6192.9	6192.9	6192.9	6178.7	6189.4	6200.0	6203.5	6200.0	6200.0	6196.5	6196.5
32.5°	5697.8	5669.5	5637.6	5609.4	5598.8	5584.6	5577.5	5566.9	5549.3	5538.6	5542.1
35°	5029.3	4965.6	4926.8	4891.4	4863.2	4841.9	4831.3	4820.6	4817.2	4803.0	4788.8
37.5°	4194.7	4148.7	4120.4	4099.2	4074.4	4053.2	4056.7	4060.3	4070.8	4063.8	4067.3
40°	3310.4	3299.8	3310.4	3285.7	3278.5	3285.7	3303.3	3328.2	3342.3	3356.4	3381.2
42.5°	2518.2	2535.8	2560.7	2560.7	2571.2	2585.5	2606.6	2645.6	2666.7	2691.4	2719.8
45°	1895.7	1917.0	1948.8	1959.3	1966.5	1984.1	2009.0	2040.7	2054.8	2076.1	2100.8
47.5°	1460.7	1474.8	1492.5	1510.2	1527.8	1535.0	1559.7	1559.7	1577.5	1591.6	1598.6
50°	1138.9	1153.0	1167.1	1177.7	1184.9	1195.5	1202.5	1213.1	1216.6	1223.7	1227.2
52.5°	891.2	909.0	909.0	916.0	926.6	937.2	933.7	937.2	940.7	940.7	951.3
55°	696.7	696.7	707.4	707.4	714.5	710.9	714.5	714.5	714.5	714.5	718.0
57.5°	519.9	523.5	534.1	527.0	523.5	530.5	523.5	530.5	527.0	534.1	523.5
60°	399.6	399.6	403.2	403.2	406.7	406.7	406.7	403.2	403.2	399.6	399.6
62.5°	300.6	304.1	307.8	304.1	304.1	304.1	300.6	300.6	297.1	293.5	293.5
65°	201.6	198.1	205.1	198.1	201.6	201.6	198.1	201.6	191.0	194.5	191.0
67.5°	145.0	141.5	138.0	141.5	138.0	134.4	134.4	138.0	141.5	130.9	130.9
70°	95.5	99.0	95.5	99.0	102.6	102.6	99.0	95.5	99.0	92.0	95.5
72.5°	60.1	60.1	60.1	60.1	60.1	63.6	63.6	63.6	56.6	56.6	53.0
75°	28.2	38.9	31.9	28.2	38.9	38.9	35.4	35.4	31.9	31.9	31.9
77.5°	28.2	21.3	21.3	21.3	21.3	21.3	21.3	21.3	17.6	21.3	17.6
80°	14.1	14.1	14.1	10.6	14.1	14.1	17.6	14.1	14.1	10.6	17.6
82.5°	7.1	7.1	7.1	0.0	3.5	7.1	7.1	3.5	7.1	7.1	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: P248997

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7324.7	7321.2	7324.7	7328.2	7324.7	7321.2	7324.7	7328.2	7314.1	7310.6	7317.6
5°	7480.3	7480.3	7487.3	7491.0	7487.3	7480.3	7480.3	7466.2	7455.6	7445.0	7441.5
7.5°	7614.7	7621.8	7628.8	7632.3	7628.8	7621.8	7614.7	7593.5	7572.2	7554.6	7540.5
10°	7696.1	7706.7	7720.8	7727.8	7720.8	7706.7	7696.1	7671.3	7643.0	7614.7	7593.5
12.5°	7731.5	7742.1	7759.7	7756.2	7759.7	7742.1	7731.5	7696.1	7664.2	7625.3	7593.5
15°	7706.7	7720.8	7738.5	7745.6	7738.5	7720.8	7706.7	7671.3	7643.0	7600.6	7568.7
17.5°	7628.8	7650.1	7660.7	7671.3	7660.7	7650.1	7628.8	7600.6	7561.7	7526.3	7494.5
20°	7522.7	7537.0	7551.1	7554.6	7551.1	7537.0	7522.7	7491.0	7430.9	7423.7	7399.0
22.5°	7370.7	7381.4	7413.1	7402.5	7413.1	7381.4	7370.7	7342.3	7321.2	7282.2	7257.5
25°	7151.3	7162.0	7165.6	7169.1	7165.6	7162.0	7151.3	7126.6	7105.5	7077.1	7063.0
27.5°	6773.0	6773.0	6780.0	6783.6	6780.0	6773.0	6773.0	6755.2	6741.1	6727.0	6712.9
30°	6200.0	6200.0	6200.0	6217.8	6200.0	6200.0	6200.0	6196.5	6196.5	6200.0	6200.0
32.5°	5538.6	5531.5	5524.5	5531.5	5524.5	5531.5	5538.6	5542.1	5538.6	5549.3	5566.9
35°	4788.8	4785.3	4795.9	4781.8	4795.9	4785.3	4788.8	4788.8	4803.0	4817.2	4820.6
37.5°	4070.8	4063.8	4077.9	4063.8	4077.9	4063.8	4070.8	4067.3	4063.8	4070.8	4060.3
40°	3388.3	3395.3	3395.3	3423.7	3395.3	3395.3	3388.3	3381.2	3356.4	3342.3	3328.2
42.5°	2733.9	2755.2	2748.1	2769.3	2748.1	2755.2	2733.9	2719.8	2691.4	2666.7	2645.6
45°	2114.9	2129.2	2129.2	2136.2	2129.2	2129.2	2114.9	2100.8	2076.1	2054.8	2040.7
47.5°	1623.3	1623.3	1623.3	1627.0	1623.3	1623.3	1623.3	1598.6	1591.6	1577.5	1559.7
50°	1234.4	1237.8	1241.5	1245.0	1241.5	1237.8	1234.4	1227.2	1223.7	1216.6	1213.1
52.5°	947.9	951.3	944.4	951.3	944.4	951.3	947.9	951.3	940.7	940.7	937.2
55°	718.0	714.5	718.0	721.5	718.0	714.5	718.0	718.0	714.5	714.5	714.5
57.5°	527.0	519.9	519.9	519.9	519.9	519.9	527.0	523.5	534.1	527.0	530.5
60°	392.6	396.1	396.1	399.6	396.1	396.1	392.6	399.6	399.6	403.2	403.2
62.5°	290.0	300.6	293.5	300.6	293.5	300.6	290.0	293.5	293.5	297.1	300.6
65°	187.5	187.5	187.5	191.0	187.5	187.5	187.5	191.0	194.5	191.0	201.6
67.5°	127.4	130.9	138.0	134.4	138.0	130.9	127.4	130.9	130.9	141.5	138.0
70°	102.6	92.0	92.0	102.6	92.0	92.0	102.6	95.5	92.0	99.0	95.5
72.5°	60.1	53.0	60.1	60.1	60.1	53.0	60.1	53.0	56.6	56.6	63.6
75°	31.9	28.2	24.7	35.4	24.7	28.2	31.9	31.9	31.9	31.9	35.4
77.5°	21.3	17.6	24.7	24.7	24.7	17.6	21.3	17.6	21.3	17.6	21.3
80°	10.6	14.1	10.6	17.6	10.6	14.1	10.6	17.6	10.6	14.1	14.1
82.5°	3.5	7.1	7.1	7.1	7.1	7.1	3.5	3.5	7.1	7.1	3.5
85°	0.0	7.1	3.5	3.5	3.5	7.1	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: P248997

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7317.6	7307.0	7310.6	7289.3	7289.3	7282.2	7285.9	7268.1	7261.1	7254.0	7264.6
5°	7423.7	7406.1	7391.8	7360.1	7342.3	7321.2	7310.6	7282.2	7257.5	7236.2	7232.7
7.5°	7508.6	7469.7	7445.0	7402.5	7370.7	7346.0	7310.6	7271.6	7239.9	7211.5	7190.4
10°	7544.0	7505.1	7466.2	7413.1	7377.7	7331.7	7296.3	7246.8	7204.5	7165.6	7140.7
12.5°	7547.5	7498.0	7462.6	7402.5	7356.5	7307.0	7268.1	7211.5	7162.0	7123.1	7084.2
15°	7515.7	7469.7	7427.2	7363.6	7317.6	7271.6	7225.7	7165.6	7119.6	7073.6	7045.4
17.5°	7445.0	7402.5	7353.0	7292.8	7250.5	7208.0	7158.5	7109.0	7055.8	7006.3	6971.0
20°	7353.0	7307.0	7264.6	7204.5	7169.1	7123.1	7077.1	7024.1	6981.6	6932.1	6893.2
22.5°	7215.1	7172.6	7133.7	7098.4	7041.7	7006.3	6974.6	6914.5	6872.0	6826.0	6783.6
25°	7017.0	6974.6	6942.7	6900.2	6875.5	6836.6	6804.7	6751.7	6712.9	6670.4	6635.0
27.5°	6691.6	6666.9	6649.1	6624.4	6603.2	6585.5	6567.9	6525.4	6497.1	6458.2	6422.9
30°	6203.5	6200.0	6189.4	6178.7	6192.9	6192.9	6192.9	6185.9	6161.1	6132.7	6108.0
32.5°	5577.5	5584.6	5598.8	5609.4	5637.6	5669.5	5697.8	5711.9	5711.9	5694.3	5683.6
35°	4831.3	4841.9	4863.2	4891.4	4926.8	4965.6	5029.3	5043.5	5054.0	5054.0	5039.9
37.5°	4056.7	4053.2	4074.4	4099.2	4120.4	4148.7	4194.7	4205.3	4222.9	4215.9	4201.7
40°	3303.3	3285.7	3278.5	3285.7	3310.4	3299.8	3310.4	3303.3	3303.3	3278.5	3278.5
42.5°	2606.6	2585.5	2571.2	2560.7	2560.7	2535.8	2518.2	2500.6	2490.0	2472.2	2468.7
45°	2009.0	1984.1	1966.5	1959.3	1948.8	1917.0	1895.7	1874.5	1849.7	1842.7	1846.2
47.5°	1559.7	1535.0	1527.8	1510.2	1492.5	1474.8	1460.7	1436.0	1432.3	1418.2	1432.3
50°	1202.5	1195.5	1184.9	1177.7	1167.1	1153.0	1138.9	1124.7	1117.6	1117.6	1121.1
52.5°	933.7	937.2	926.6	916.0	909.0	909.0	891.2	887.7	887.7	873.6	887.7
55°	714.5	710.9	714.5	707.4	707.4	696.7	696.7	686.1	686.1	675.5	682.6
57.5°	523.5	530.5	523.5	527.0	534.1	523.5	519.9	509.2	516.4	509.2	512.9
60°	406.7	406.7	406.7	403.2	403.2	399.6	399.6	396.1	396.1	389.0	396.1
62.5°	300.6	304.1	304.1	304.1	307.8	304.1	300.6	304.1	300.6	300.6	304.1
65°	198.1	201.6	201.6	198.1	205.1	198.1	201.6	205.1	208.6	205.1	208.6
67.5°	134.4	134.4	138.0	141.5	138.0	141.5	145.0	141.5	145.0	152.1	145.0
70°	99.0	102.6	102.6	99.0	95.5	99.0	95.5	106.1	106.1	106.1	113.1
72.5°	63.6	63.6	60.1	60.1	60.1	60.1	60.1	70.8	63.6	60.1	67.3
75°	35.4	38.9	38.9	28.2	31.9	38.9	28.2	31.9	42.5	35.4	42.5
77.5°	21.3	21.3	21.3	21.3	21.3	21.3	28.2	24.7	24.7	24.7	28.2
80°	17.6	14.1	14.1	10.6	14.1	14.1	14.1	21.3	17.6	17.6	21.3
82.5°	7.1	7.1	3.5	0.0	7.1	7.1	7.1	7.1	7.1	7.1	14.1
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	7.1	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: P248997

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7236.2	7236.2	7232.7	7225.7	7211.5	7211.5	7208.0	7197.3	7190.4	7186.7	7186.7
5°	7200.8	7186.7	7172.6	7133.7	7133.7	7126.6	7105.5	7091.2	7084.2	7066.5	7059.5
7.5°	7169.1	7126.6	7101.8	7077.1	7045.4	7031.1	7006.3	6995.7	6971.0	6953.4	6942.7
10°	7091.2	7063.0	7031.1	6992.2	6967.5	6939.2	6910.8	6889.7	6857.9	6840.1	6826.0
12.5°	7038.2	6995.7	6967.5	6925.0	6882.6	6857.9	6819.0	6794.2	6762.4	6727.0	6705.7
15°	6988.7	6942.7	6903.9	6857.9	6811.9	6783.6	6737.6	6709.4	6663.4	6628.0	6603.2
17.5°	6914.5	6875.5	6833.1	6776.5	6734.1	6698.7	6649.1	6613.9	6571.4	6525.4	6500.6
20°	6836.6	6790.6	6748.2	6691.6	6649.1	6606.7	6557.2	6518.4	6468.7	6426.4	6398.1
22.5°	6734.1	6681.0	6645.6	6589.0	6539.5	6493.6	6447.6	6401.6	6355.6	6320.2	6288.4
25°	6585.5	6528.9	6490.0	6444.0	6398.1	6362.7	6306.1	6277.9	6231.9	6200.0	6168.1
27.5°	6373.2	6330.9	6295.5	6249.5	6210.6	6182.4	6139.9	6111.6	6072.6	6044.4	6019.6
30°	6062.1	6026.8	5994.9	5948.9	5920.6	5895.9	5856.9	5832.1	5803.9	5772.0	5765.0
32.5°	5644.8	5616.4	5584.6	5552.8	5531.5	5517.4	5485.5	5471.4	5443.1	5425.4	5407.8
35°	5015.1	4990.4	4972.8	4958.7	4951.5	4955.0	4948.0	4962.2	4969.1	4965.6	4969.1
37.5°	4191.2	4176.9	4184.0	4194.7	4230.0	4276.0	4318.4	4382.0	4424.5	4467.0	4505.9
40°	3271.6	3282.2	3310.4	3374.0	3466.1	3568.7	3664.2	3784.4	3904.7	3989.5	4067.3
42.5°	2468.7	2500.6	2571.2	2663.2	2801.2	2953.2	3101.8	3278.5	3423.7	3565.0	3664.2
45°	1856.8	1899.2	1991.2	2118.6	2270.6	2447.4	2635.0	2832.9	3006.3	3151.3	3260.9
47.5°	1446.6	1485.5	1577.5	1711.8	1899.2	2083.2	2277.7	2482.8	2663.2	2804.7	2900.2
50°	1142.3	1191.8	1273.2	1414.7	1602.2	1796.7	1998.3	2199.8	2369.7	2490.0	2574.8
52.5°	898.4	944.4	1022.1	1170.7	1361.7	1556.2	1743.6	1941.7	2090.2	2207.0	2263.6
55°	696.7	739.2	820.5	944.4	1124.7	1315.7	1503.1	1673.0	1810.8	1895.7	1948.8
57.5°	530.5	562.4	619.0	742.7	905.5	1082.2	1241.5	1411.2	1517.4	1577.5	1612.7
60°	403.2	428.0	488.1	583.6	732.1	884.2	1018.6	1146.0	1230.9	1280.4	1315.7
62.5°	304.1	332.5	374.9	456.2	569.4	693.2	806.4	901.9	972.6	1004.5	1029.2
65°	208.6	229.9	261.7	325.4	420.9	509.2	597.7	668.5	714.5	749.9	764.0
67.5°	155.6	169.7	187.5	237.0	304.1	374.9	435.0	484.5	534.1	548.2	573.0
70°	116.8	127.4	145.0	180.4	219.2	268.7	318.4	346.6	382.0	406.7	413.9
72.5°	74.2	77.7	95.5	116.8	148.5	180.4	212.3	237.0	258.3	272.4	279.4
75°	42.5	63.6	63.6	84.9	106.1	120.2	141.5	159.1	169.7	180.4	180.4
77.5°	28.2	38.9	42.5	53.0	63.6	81.4	99.0	109.6	120.2	123.7	123.7
80°	24.7	28.2	28.2	38.9	46.0	60.1	70.8	74.2	81.4	84.9	92.0
82.5°	10.6	14.1	17.6	28.2	31.9	31.9	42.5	46.0	53.0	56.6	56.6
85°	3.5	7.1	7.1	10.6	17.6	21.3	24.7	28.2	31.9	31.9	35.4
87.5°	3.5	3.5	0.0	3.5	7.1	7.1	14.1	14.1	14.1	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248997

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3	7243.3
2.5°	7179.7	7183.2	7169.1	7165.6	7158.5	7162.0	7169.1
5°	7048.9	7052.3	7038.2	7024.1	7024.1	7020.5	7024.1
7.5°	6925.0	6928.6	6907.4	6900.2	6886.1	6889.7	6889.7
10°	6801.2	6801.2	6769.5	6765.9	6755.2	6751.7	6751.7
12.5°	6681.0	6670.4	6645.6	6631.5	6638.6	6617.4	6617.4
15°	6574.9	6557.2	6525.4	6514.7	6497.1	6490.0	6490.0
17.5°	6465.2	6451.1	6422.9	6401.6	6380.4	6376.9	6380.4
20°	6359.1	6345.0	6309.6	6295.5	6277.9	6277.9	6270.7
22.5°	6253.0	6238.9	6207.1	6196.5	6171.8	6171.8	6175.2
25°	6143.4	6132.7	6097.4	6090.4	6086.9	6072.6	6079.7
27.5°	5994.9	5987.7	5959.5	5948.9	5934.8	5931.3	5938.2
30°	5722.5	5711.9	5690.8	5680.1	5655.4	5658.9	5665.9
32.5°	5383.0	5368.9	5340.5	5329.9	5308.8	5301.6	5305.1
35°	4958.7	4948.0	4923.3	4923.3	4902.0	4894.9	4902.0
37.5°	4527.2	4537.6	4527.2	4537.6	4527.2	4523.5	4527.2
40°	4120.4	4159.3	4166.3	4205.3	4191.2	4212.3	4208.8
42.5°	3731.3	3794.9	3819.8	3851.5	3844.6	3858.7	3869.3
45°	3338.7	3391.8	3416.6	3437.8	3441.3	3448.4	3451.9
47.5°	2967.3	3009.8	3013.3	3038.1	3034.6	3034.6	3045.2
50°	2620.8	2649.1	2656.1	2673.8	2659.7	2652.6	2656.1
52.5°	2299.0	2327.2	2320.1	2327.2	2309.6	2302.5	2305.9
55°	1970.0	1984.1	1984.1	1984.1	1963.0	1963.0	1963.0
57.5°	1634.0	1637.6	1630.5	1634.0	1630.5	1609.2	1605.7
60°	1326.4	1326.4	1322.7	1326.4	1315.7	1305.1	1305.1
62.5°	1036.2	1043.4	1057.5	1043.4	1036.2	1043.4	1032.7
65°	774.6	788.7	785.1	792.2	788.7	788.7	781.6
67.5°	583.6	587.1	590.6	594.2	594.2	594.2	594.2
70°	428.0	438.6	435.0	435.0	435.0	435.0	456.2
72.5°	286.5	300.6	297.1	304.1	304.1	311.2	304.1
75°	194.5	208.6	201.6	212.3	208.6	201.6	219.2
77.5°	130.9	138.0	141.5	145.0	141.5	138.0	141.5
80°	92.0	99.0	95.5	99.0	99.0	99.0	102.6
82.5°	56.6	67.3	63.6	67.3	63.6	67.3	67.3
85°	38.9	42.5	35.4	42.5	38.9	38.9	46.0
87.5°	24.7	21.3	21.3	24.7	21.3	24.7	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)