

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: P249189

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009730 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16143.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

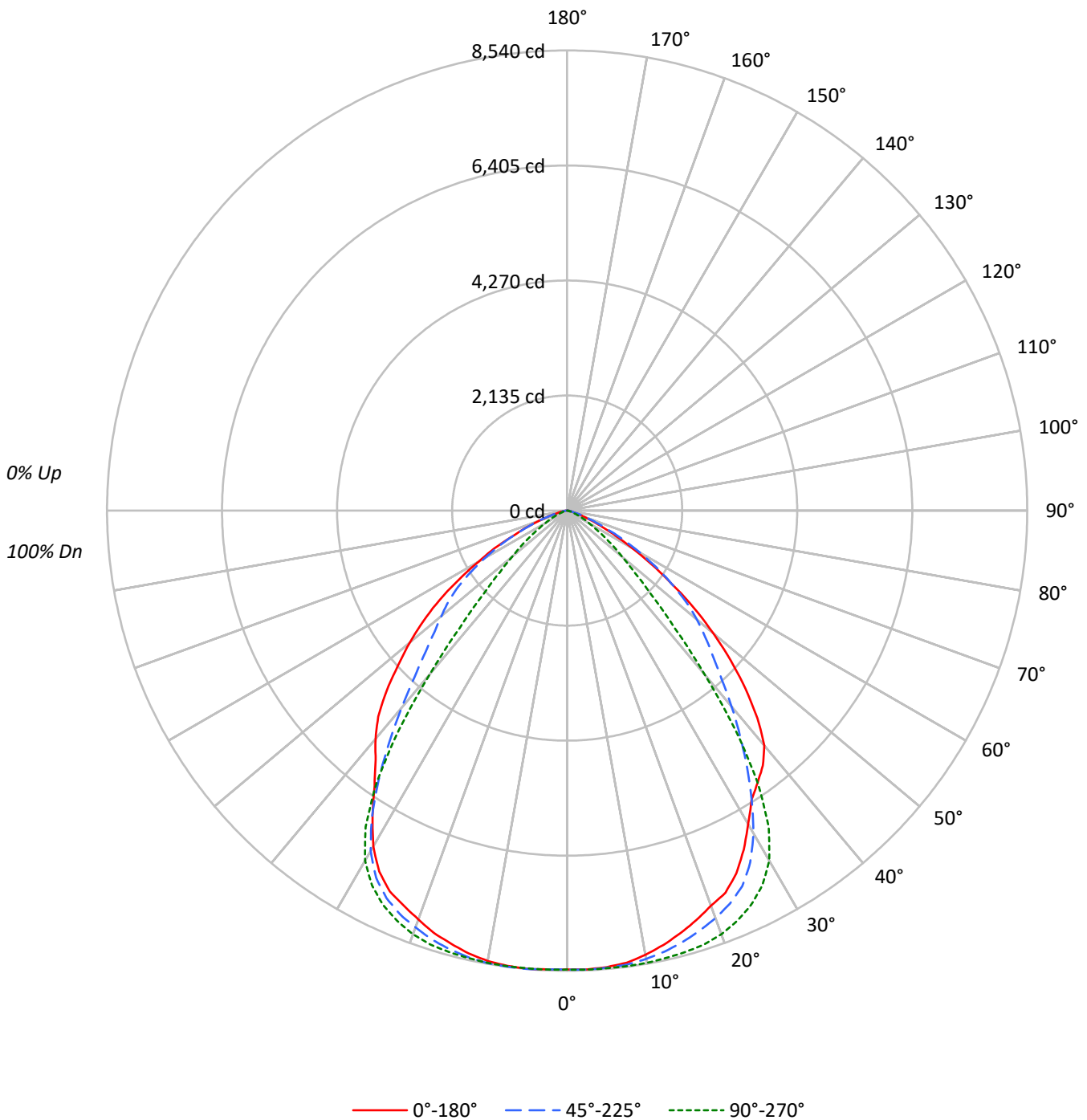
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.9	5.0
10°-20°	2360.7	14.6
20°-30°	3583.0	22.2
30°-40°	3763.3	23.3
40°-50°	2821.4	17.5
50°-60°	1810.3	11.2
60°-70°	774.4	4.8
70°-80°	183.0	1.1
80°-90°	34.0	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°	6756.6	41.9
0°-40°	10519.8	65.2
0°-60°	15151.6	93.9
0°-90°	16143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8517	8517	8517	8517	8517	
5°	8504	8517	8526	8540	8536	808
15°	8120	8289	8481	8426	8321	2290
25°	7429	7690	8078	7932	7795	3394
35°	6163	5820	6167	6094	6232	3868
45°	4682	3827	2199	3717	4746	3585
55°	2368	2368	818	2469	2885	2148
65°	713	841	261	1084	1102	761
75°	110	128	37	220	215	160
85°	37	23	18	37	50	39
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°	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4
2.5°	8522.0	8531.1	8526.5	8526.5	8522.0	8526.5	8526.5	8535.7	8535.7	8526.5	8522.0
5°	8503.6	8512.8	8512.8	8503.6	8503.6	8526.5	8512.8	8522.0	8522.0	8517.4	8517.4
7.5°	8462.5	8462.5	8480.8	8467.1	8467.1	8480.8	8476.2	8485.4	8494.5	8499.1	8499.1
10°	8371.0	8380.2	8384.8	8384.8	8389.4	8403.0	8412.2	8430.6	8439.6	8448.8	8453.4
12.5°	8256.8	8270.5	8275.1	8270.5	8284.2	8302.5	8325.4	8348.2	8362.0	8380.2	8394.0
15°	8119.6	8119.6	8128.7	8142.5	8151.7	8179.1	8201.9	8229.3	8265.9	8288.8	8311.6
17.5°	7968.8	7977.9	7991.6	7991.6	8009.9	8055.6	8069.3	8110.5	8151.7	8174.5	8220.2
20°	7804.2	7813.3	7827.0	7836.2	7859.0	7895.6	7923.0	7959.6	8005.4	8046.5	8092.2
22.5°	7676.1	7657.9	7667.0	7676.1	7699.1	7731.1	7763.1	7808.7	7854.4	7895.6	7941.4
25°	7429.2	7433.8	7447.6	7456.7	7484.2	7511.6	7548.2	7603.0	7644.1	7689.9	7740.1
27.5°	7095.5	7100.1	7123.0	7123.0	7145.8	7191.5	7214.4	7260.1	7315.0	7360.7	7420.2
30°	6716.1	6725.2	6725.2	6743.5	6757.2	6780.1	6802.9	6848.7	6876.1	6917.2	6999.6
32.5°	6368.6	6377.7	6373.1	6368.6	6354.9	6350.3	6345.7	6354.9	6364.1	6377.7	6409.7
35°	6162.9	6140.0	6121.8	6089.8	6053.2	6007.4	5966.3	5911.4	5861.1	5819.9	5774.3
37.5°	5966.3	5961.7	5934.3	5888.5	5815.4	5733.1	5637.1	5518.2	5399.3	5271.3	5148.0
40°	5692.0	5678.2	5655.4	5591.4	5509.1	5408.5	5280.5	5134.2	4942.1	4745.6	4544.4
42.5°	5225.6	5230.2	5202.8	5152.4	5074.8	4978.7	4846.1	4686.2	4480.5	4247.2	3986.7
45°	4681.6	4681.6	4672.4	4631.3	4576.4	4498.7	4398.1	4265.6	4064.4	3826.6	3547.7
47.5°	4114.7	4119.2	4105.5	4096.4	4073.5	4023.3	3950.1	3849.5	3707.8	3479.1	3200.3
50°	3538.7	3538.7	3561.5	3556.9	3556.9	3538.7	3506.7	3447.2	3323.8	3140.9	2880.3
52.5°	2962.5	2971.7	2985.5	3003.7	3026.5	3063.1	3026.5	2999.1	2921.4	2779.6	2555.7
55°	2368.2	2377.4	2400.2	2432.2	2459.7	2496.3	2505.4	2505.4	2464.2	2368.2	2199.1
57.5°	1860.8	1847.0	1865.4	1892.8	1929.4	1965.9	1993.3	2025.3	2020.7	1956.8	1819.6
60°	1399.0	1403.6	1417.2	1444.7	1472.2	1504.1	1540.7	1568.1	1581.9	1549.9	1463.0
62.5°	1019.5	1019.5	1037.8	1065.2	1078.9	1124.7	1147.5	1161.3	1174.9	1170.3	1115.5
65°	713.3	722.3	731.5	745.2	758.9	786.3	800.1	827.5	836.6	841.2	800.1
67.5°	502.9	489.2	498.4	507.4	521.2	539.5	566.9	566.9	580.6	580.6	553.2
70°	320.0	320.0	324.6	338.3	347.5	352.0	361.2	370.3	384.0	379.5	379.5
72.5°	214.9	210.3	214.9	219.5	224.1	237.7	237.7	242.3	251.5	256.1	237.7
75°	109.7	114.3	123.4	118.9	132.6	123.4	128.0	141.7	137.1	128.0	128.0
77.5°	91.4	91.4	91.4	86.9	96.0	96.0	91.4	100.6	96.0	96.0	91.4
80°	64.0	68.6	64.0	59.4	64.0	59.4	59.4	59.4	59.4	59.4	54.8
82.5°	50.3	41.2	45.8	41.2	45.8	45.8	41.2	36.6	36.6	41.2	36.6
85°	36.6	27.4	32.0	32.0	27.4	27.4	27.4	27.4	27.4	22.8	22.8
87.5°	22.8	13.8	13.8	13.8	18.2	18.2	18.2	13.8	18.2	18.2	9.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4
2.5°	8531.1	8526.5	8535.7	8531.1	8531.1	8526.5	8531.1	8526.5	8535.7	8517.4	8522.0
5°	8531.1	8522.0	8526.5	8531.1	8535.7	8526.5	8526.5	8526.5	8535.7	8526.5	8531.1
7.5°	8512.8	8508.2	8522.0	8531.1	8526.5	8522.0	8531.1	8526.5	8535.7	8531.1	8540.2
10°	8476.2	8480.8	8490.0	8503.6	8508.2	8512.8	8522.0	8522.0	8535.7	8517.4	8526.5
12.5°	8421.4	8439.6	8462.5	8471.6	8490.0	8490.0	8499.1	8503.6	8512.8	8508.2	8522.0
15°	8352.8	8375.6	8403.0	8426.0	8448.8	8462.5	8476.2	8480.8	8494.5	8480.8	8485.4
17.5°	8270.5	8297.9	8339.1	8366.5	8403.0	8416.8	8435.0	8444.2	8458.0	8448.8	8453.4
20°	8156.2	8188.3	8233.9	8275.1	8297.9	8329.9	8352.8	8366.5	8375.6	8366.5	8371.0
22.5°	7996.2	8041.9	8101.3	8133.3	8179.1	8206.5	8211.1	8243.1	8265.9	8243.1	8252.2
25°	7808.7	7854.4	7900.2	7968.8	8009.9	8041.9	8073.9	8078.5	8101.3	8096.7	8092.2
27.5°	7497.8	7557.3	7635.0	7689.9	7744.7	7795.0	7831.6	7840.7	7863.6	7854.4	7859.0
30°	7072.6	7136.7	7209.9	7296.7	7374.4	7424.7	7470.4	7502.4	7525.2	7511.6	7507.0
32.5°	6469.2	6533.2	6610.9	6697.8	6789.3	6862.3	6917.2	6958.4	6985.8	6976.6	6953.8
35°	5778.9	5797.1	5847.5	5916.0	5993.7	6071.4	6121.8	6167.4	6199.4	6208.6	6208.6
37.5°	5070.2	5010.8	4974.2	4974.2	5019.9	5051.9	5097.6	5125.0	5175.4	5193.6	5207.4
40°	4384.4	4247.2	4119.2	4023.3	3959.3	3954.7	3954.7	3968.3	4014.1	4073.5	4128.4
42.5°	3771.8	3552.3	3355.8	3177.4	3049.5	2976.3	2944.3	2948.9	2985.5	3040.3	3131.7
45°	3282.6	3008.3	2761.4	2546.5	2372.8	2258.5	2203.6	2199.1	2226.5	2290.5	2391.1
47.5°	2903.1	2610.5	2331.6	2084.7	1897.4	1773.9	1709.9	1691.6	1709.9	1769.3	1888.2
50°	2587.7	2286.0	1997.9	1741.9	1540.7	1412.8	1353.2	1330.4	1353.2	1403.6	1522.4
52.5°	2295.0	1984.2	1714.5	1467.6	1252.7	1142.9	1078.9	1065.2	1078.9	1138.4	1234.4
55°	1956.8	1691.6	1426.4	1179.5	992.1	882.4	832.1	818.4	832.1	887.0	987.6
57.5°	1623.1	1394.4	1161.3	937.2	777.2	681.2	635.5	617.2	649.2	685.7	804.7
60°	1312.1	1129.3	932.6	736.1	603.5	516.6	480.0	475.4	484.6	530.4	612.6
62.5°	1028.7	877.8	722.3	562.3	452.6	416.0	370.3	365.8	374.9	402.3	466.4
65°	740.7	644.7	525.8	411.4	324.6	274.3	256.1	260.6	269.7	288.1	347.5
67.5°	516.6	448.0	365.8	288.1	224.1	201.1	182.9	178.3	182.9	214.9	246.9
70°	347.5	306.3	246.9	219.5	155.5	123.4	128.0	114.3	132.6	132.6	160.0
72.5°	228.5	201.1	164.6	128.0	109.7	86.9	86.9	82.3	91.4	96.0	118.9
75°	118.9	91.4	91.4	64.0	45.8	22.8	41.2	36.6	32.0	36.6	45.8
77.5°	82.3	68.6	64.0	50.3	45.8	36.6	36.6	36.6	36.6	41.2	45.8
80°	50.3	50.3	36.6	32.0	27.4	22.8	27.4	27.4	27.4	27.4	32.0
82.5°	32.0	27.4	27.4	22.8	22.8	18.2	18.2	18.2	18.2	18.2	27.4
85°	27.4	18.2	18.2	13.8	18.2	32.0	13.8	18.2	18.2	18.2	13.8
87.5°	9.2	13.8	13.8	13.8	9.2	4.6	9.2	13.8	13.8	22.8	18.2
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°	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4	8517.4
2.5°	8531.1	8535.7	8535.7	8531.1	8531.1	8522.0	8540.2	8526.5	8531.1	8549.4	8535.7
5°	8540.2	8544.8	8544.8	8540.2	8540.2	8540.2	8544.8	8544.8	8540.2	8535.7	8544.8
7.5°	8558.5	8553.9	8553.9	8544.8	8544.8	8535.7	8544.8	8531.1	8540.2	8531.1	8544.8
10°	8535.7	8540.2	8535.7	8531.1	8531.1	8526.5	8526.5	8512.8	8517.4	8503.6	8512.8
12.5°	8522.0	8517.4	8517.4	8508.2	8499.1	8490.0	8485.4	8471.6	8471.6	8439.6	8453.4
15°	8485.4	8490.0	8476.2	8458.0	8448.8	8426.0	8416.8	8398.5	8380.2	8357.4	8362.0
17.5°	8453.4	8439.6	8421.4	8403.0	8366.5	8348.2	8329.9	8302.5	8293.3	8265.9	8256.8
20°	8357.4	8348.2	8325.4	8293.3	8270.5	8229.3	8211.1	8183.7	8160.7	8133.3	8119.6
22.5°	8233.9	8224.7	8197.3	8165.3	8128.7	8110.5	8092.2	8041.9	8019.0	7991.6	7987.0
25°	8078.5	8064.8	8037.3	8000.8	7982.4	7932.2	7913.8	7877.3	7868.2	7840.7	7836.2
27.5°	7840.7	7822.5	7790.5	7744.7	7712.7	7680.7	7662.5	7635.0	7625.9	7598.4	7593.9
30°	7484.2	7461.2	7397.3	7379.0	7324.1	7292.1	7292.1	7255.5	7260.1	7241.9	7241.9
32.5°	6921.8	6885.2	6834.9	6798.3	6761.7	6743.5	6743.5	6729.7	6738.9	6738.9	6748.1
35°	6176.6	6126.3	6098.8	6076.0	6076.0	6094.2	6149.2	6162.9	6190.3	6213.1	6231.5
37.5°	5221.0	5216.5	5248.5	5275.9	5344.5	5422.3	5518.2	5600.6	5678.2	5733.1	5787.9
40°	4187.8	4302.1	4393.5	4521.6	4626.7	4777.6	4951.3	5093.0	5225.6	5321.7	5422.3
42.5°	3268.8	3415.2	3607.2	3794.6	3982.1	4187.8	4416.5	4613.0	4786.7	4919.3	5024.5
45°	2546.5	2747.7	2980.9	3218.6	3460.9	3717.0	3954.7	4155.8	4338.7	4475.9	4581.0
47.5°	2052.7	2272.2	2537.3	2798.0	3072.3	3342.0	3607.2	3781.0	3931.8	4041.5	4137.6
50°	1696.1	1929.4	2208.2	2505.4	2779.6	3049.5	3278.0	3447.2	3570.6	3666.6	3726.0
52.5°	1417.2	1664.1	1961.3	2258.5	2532.8	2779.6	2985.5	3113.5	3214.0	3282.6	3337.4
55°	1170.3	1408.2	1687.0	1965.9	2235.6	2468.8	2637.9	2734.0	2811.6	2852.8	2884.8
57.5°	955.6	1174.9	1431.0	1687.0	1920.2	2112.3	2244.8	2340.8	2377.4	2409.4	2404.8
60°	749.8	955.6	1188.7	1408.2	1609.3	1764.7	1860.8	1915.6	1943.0	1956.8	1947.6
62.5°	589.8	777.2	955.6	1147.5	1293.8	1426.4	1517.9	1517.9	1531.6	1536.1	1549.9
65°	438.9	580.6	736.1	877.8	996.6	1083.5	1133.9	1147.5	1165.9	1161.3	1152.1
67.5°	324.6	429.8	544.0	649.2	731.5	786.3	822.9	855.0	850.4	841.2	836.6
70°	224.1	292.6	393.2	457.2	516.6	571.5	580.6	585.2	589.8	594.3	585.2
72.5°	155.5	205.7	260.6	315.5	352.0	374.9	397.8	402.3	402.3	402.3	397.8
75°	77.7	105.2	155.5	178.3	210.3	219.5	237.7	237.7	251.5	233.1	228.5
77.5°	68.6	82.3	109.7	128.0	141.7	155.5	160.0	173.7	169.1	160.0	164.6
80°	41.2	50.3	68.6	77.7	96.0	100.6	105.2	109.7	105.2	109.7	109.7
82.5°	32.0	36.6	45.8	45.8	59.4	59.4	64.0	64.0	68.6	68.6	68.6
85°	18.2	32.0	27.4	54.8	36.6	36.6	45.8	54.8	45.8	45.8	54.8
87.5°	18.2	18.2	13.8	18.2	18.2	18.2	22.8	27.4	27.4	32.0	27.4
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: P249189

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8517.4	8517.4	8517.4	8517.4
2.5°	8531.1	8540.2	8526.5	8522.0
5°	8544.8	8544.8	8535.7	8535.7
7.5°	8544.8	8544.8	8531.1	8522.0
10°	8508.2	8508.2	8494.5	8485.4
12.5°	8439.6	8439.6	8435.0	8421.4
15°	8352.8	8352.8	8334.5	8320.8
17.5°	8233.9	8243.1	8220.2	8220.2
20°	8105.9	8101.3	8083.1	8073.9
22.5°	7973.4	7964.2	7959.6	7932.2
25°	7831.6	7822.5	7808.7	7795.0
27.5°	7589.3	7584.7	7571.0	7552.7
30°	7218.9	7214.4	7196.1	7196.1
32.5°	6738.9	6734.3	6716.1	6720.7
35°	6240.6	6258.9	6249.7	6231.5
37.5°	5824.5	5838.3	5847.5	5838.3
40°	5477.1	5518.2	5522.8	5532.0
42.5°	5106.8	5161.6	5180.0	5189.0
45°	4663.2	4713.6	4754.8	4745.6
47.5°	4210.6	4247.2	4283.8	4256.4
50°	3776.4	3799.2	3813.0	3813.0
52.5°	3364.9	3364.9	3360.3	3364.9
55°	2894.0	2894.0	2875.7	2884.8
57.5°	2400.2	2409.4	2395.6	2372.8
60°	1943.0	1920.2	1911.0	1897.4
62.5°	1513.3	1513.3	1481.3	1522.4
65°	1133.9	1120.1	1106.4	1101.8
67.5°	822.9	818.4	804.7	800.1
70°	580.6	562.3	557.8	548.6
72.5°	388.6	388.6	379.5	379.5
75°	237.7	214.9	210.3	214.9
77.5°	164.6	160.0	160.0	155.5
80°	109.7	105.2	114.3	100.6
82.5°	68.6	73.2	68.6	73.2
85°	45.8	54.8	50.3	50.3
87.5°	27.4	27.4	27.4	27.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)