

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: P249117

Luminaire Tested: **LD8B200D010 ER8B200840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249117
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 ER8B200840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21770.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

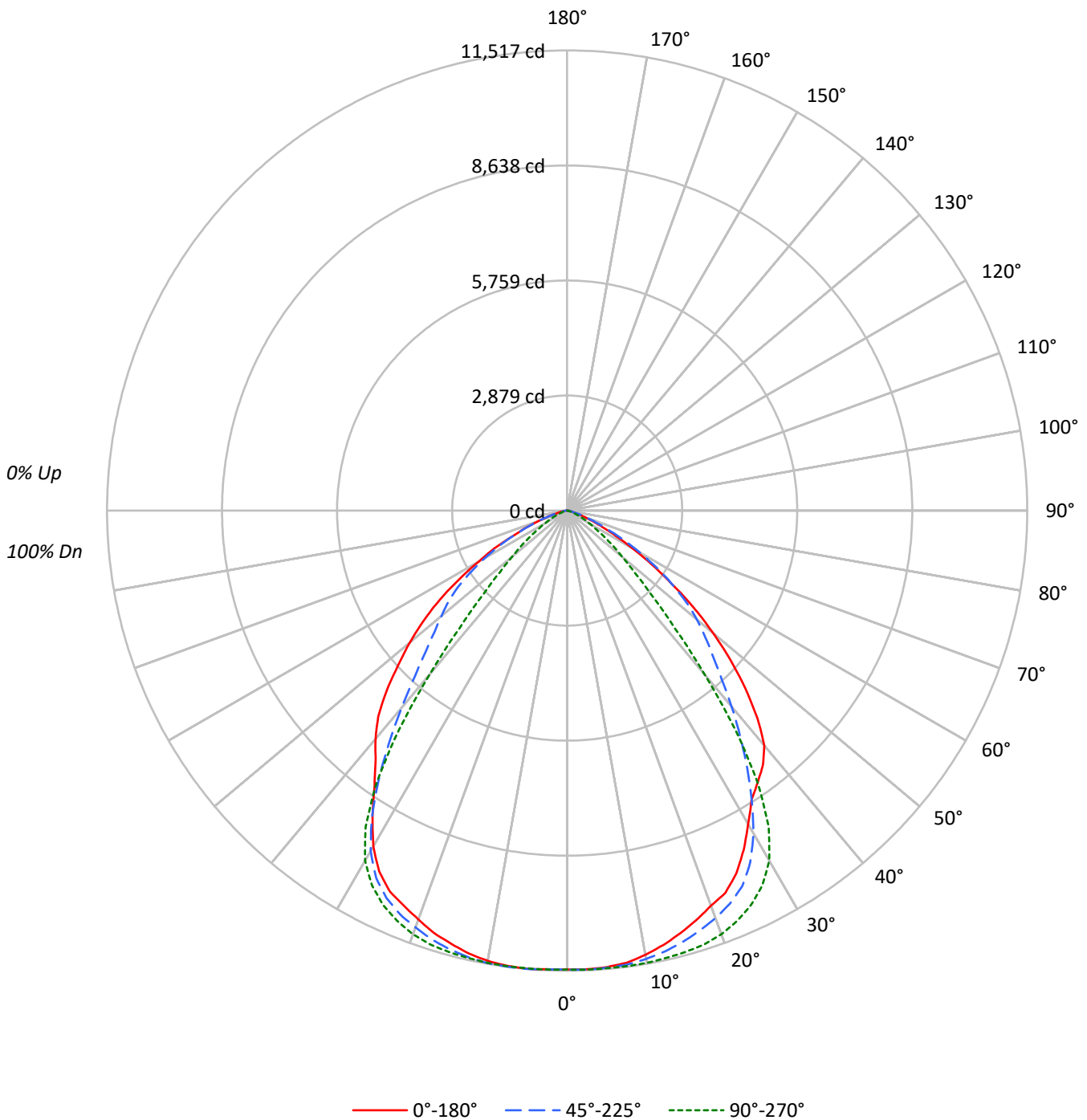
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	354195	354195	354195
5°	354972	355929	356313
10°	353481	359853	358307
15°	349563	365113	358227
20°	345365	370249	357303
25°	340884	370676	357668
30°	322494	360251	345545
35°	312865	313094	316347
40°	308989	215423	300307
45°	275326	129327	279090
50°	228931	86073	246676
55°	171698	59337	209154
60°	116352	39544	157802
65°	70185	25647	108411
70°	38913	13903	66700
75°	17633	5874	34527
80°	15325	6570	24080
85°	17443	8704	24023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.2	5.0
10°-20°	3183.5	14.6
20°-30°	4832.0	22.2
30°-40°	5075.0	23.3
40°-50°	3804.9	17.5
50°-60°	2441.3	11.2
60°-70°	1044.4	4.8
70°-80°	246.7	1.1
80°-90°	45.9	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°	9111.7	41.9
0°-40°	14186.8	65.2
0°-60°	20433.0	93.9
0°-90°	21770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21770.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11486	11486	11486	11486	11486	
5°	11468	11486	11499	11517	11511	###
15°	10950	11178	11437	11363	11221	3088
25°	10019	10370	10894	10697	10512	4577
35°	8311	7849	8317	8218	8404	5216
45°	6314	5160	2966	5013	6400	4835
55°	3194	3194	1104	3329	3890	2897
65°	962	1134	352	1461	1486	1027
75°	148	173	49	296	290	216
85°	49	31	25	49	68	52
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°	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3
2.5°	11492.5	11504.8	11498.6	11498.6	11492.5	11498.6	11498.6	11511.0	11511.0	11498.6	11492.5
5°	11467.7	11480.1	11480.1	11467.7	11467.7	11498.6	11480.1	11492.5	11492.5	11486.3	11486.3
7.5°	11412.4	11412.4	11436.9	11418.5	11418.5	11436.9	11430.8	11443.1	11455.5	11461.7	11461.7
10°	11289.0	11301.3	11307.5	11307.5	11313.7	11332.1	11344.5	11369.2	11381.4	11393.8	11400.0
12.5°	11134.9	11153.3	11159.5	11153.3	11171.9	11196.5	11227.4	11258.2	11276.7	11301.3	11319.9
15°	10949.8	10949.8	10962.2	10980.7	10993.1	11030.1	11060.9	11097.8	11147.2	11178.1	11208.8
17.5°	10746.5	10758.8	10777.2	10777.2	10802.0	10863.5	10882.1	10937.6	10993.1	11023.9	11085.6
20°	10524.5	10536.8	10555.3	10567.7	10598.5	10647.8	10684.8	10734.1	10795.8	10851.3	10912.9
22.5°	10351.8	10327.2	10339.5	10351.8	10382.7	10425.9	10469.0	10530.6	10592.3	10647.8	10709.5
25°	10018.9	10025.1	10043.6	10055.8	10092.9	10129.9	10179.2	10253.2	10308.7	10370.4	10438.1
27.5°	9568.9	9575.0	9605.8	9605.8	9636.6	9698.3	9729.1	9790.8	9864.8	9926.4	10006.6
30°	9057.1	9069.4	9069.4	9094.1	9112.5	9143.4	9174.2	9235.9	9272.9	9328.4	9439.4
32.5°	8588.6	8600.8	8594.6	8588.6	8570.0	8563.8	8557.6	8570.0	8582.4	8600.8	8643.9
35°	8311.1	8280.2	8255.6	8212.5	8163.1	8101.4	8045.9	7972.0	7904.1	7848.6	7787.1
37.5°	8045.9	8039.7	8002.8	7941.1	7842.4	7731.5	7602.1	7441.7	7281.4	7108.8	6942.4
40°	7676.0	7657.5	7626.7	7540.4	7429.4	7293.7	7121.2	6923.8	6664.8	6399.8	6128.5
42.5°	7047.1	7053.3	7016.3	6948.4	6843.7	6714.1	6535.4	6319.6	6042.2	5727.7	5376.3
45°	6313.5	6313.5	6301.1	6245.6	6171.7	6066.8	5931.2	5752.4	5481.2	5160.4	4784.4
47.5°	5548.9	5555.1	5536.5	5524.3	5493.4	5425.7	5327.0	5191.4	5000.2	4691.9	4315.8
50°	4772.1	4772.1	4802.9	4796.7	4796.7	4772.1	4729.0	4648.7	4482.3	4235.7	3884.3
52.5°	3995.2	4007.6	4026.1	4050.7	4081.5	4130.8	4081.5	4044.5	3939.7	3748.6	3446.5
55°	3193.7	3206.1	3236.8	3280.0	3317.1	3366.4	3378.6	3378.6	3323.1	3193.7	2965.6
57.5°	2509.4	2490.8	2515.6	2552.5	2601.9	2651.2	2688.2	2731.3	2725.1	2638.8	2453.9
60°	1886.6	1892.8	1911.2	1948.3	1985.3	2028.5	2077.8	2114.7	2133.3	2090.2	1972.9
62.5°	1374.9	1374.9	1399.5	1436.5	1455.0	1516.7	1547.5	1566.1	1584.5	1578.3	1504.4
65°	961.9	974.1	986.5	1005.0	1023.4	1060.4	1078.9	1115.9	1128.3	1134.5	1078.9
67.5°	678.3	659.7	672.1	684.3	702.9	727.6	764.6	764.6	783.0	783.0	746.0
70°	431.6	431.6	437.8	456.2	468.6	474.8	487.1	499.3	517.9	511.7	511.7
72.5°	289.8	283.6	289.8	296.0	302.2	320.6	320.6	326.8	339.1	345.3	320.6
75°	148.0	154.2	166.4	160.4	178.8	166.4	172.6	191.1	185.0	172.6	172.6
77.5°	123.3	123.3	123.3	117.2	129.4	129.4	123.3	135.6	129.4	129.4	123.3
80°	86.3	92.5	86.3	80.1	86.3	80.1	80.1	80.1	80.1	80.1	73.9
82.5°	67.9	55.5	61.7	55.5	61.7	61.7	55.5	49.3	49.3	55.5	49.3
85°	49.3	37.0	43.1	43.1	37.0	37.0	37.0	37.0	37.0	30.8	30.8
87.5°	30.8	18.6	18.6	18.6	24.6	24.6	24.6	18.6	24.6	24.6	12.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3
2.5°	11504.8	11498.6	11511.0	11504.8	11504.8	11498.6	11504.8	11498.6	11511.0	11486.3	11492.5
5°	11504.8	11492.5	11498.6	11504.8	11511.0	11498.6	11498.6	11498.6	11511.0	11498.6	11504.8
7.5°	11480.1	11473.9	11492.5	11504.8	11498.6	11492.5	11504.8	11498.6	11511.0	11504.8	11517.1
10°	11430.8	11436.9	11449.3	11467.7	11473.9	11480.1	11492.5	11492.5	11511.0	11486.3	11498.6
12.5°	11356.8	11381.4	11412.4	11424.6	11449.3	11449.3	11461.7	11467.7	11480.1	11473.9	11492.5
15°	11264.4	11295.1	11332.1	11363.0	11393.8	11412.4	11430.8	11436.9	11455.5	11436.9	11443.1
17.5°	11153.3	11190.3	11245.8	11282.8	11332.1	11350.7	11375.3	11387.6	11406.2	11393.8	11400.0
20°	10999.2	11042.4	11104.0	11159.5	11190.3	11233.4	11264.4	11282.8	11295.1	11282.8	11289.0
22.5°	10783.4	10845.1	10925.2	10968.4	11030.1	11067.0	11073.2	11116.4	11147.2	11116.4	11128.7
25°	10530.6	10592.3	10654.0	10746.5	10802.0	10845.1	10888.3	10894.5	10925.2	10919.0	10912.9
27.5°	10111.3	10191.6	10296.3	10370.4	10444.3	10512.2	10561.5	10573.7	10604.7	10592.3	10598.5
30°	9537.9	9624.4	9723.0	9840.1	9944.9	10012.7	10074.4	10117.5	10148.3	10129.9	10123.7
32.5°	8724.2	8810.5	8915.3	9032.4	9155.8	9254.3	9328.4	9383.9	9420.9	9408.5	9377.7
35°	7793.2	7817.8	7885.7	7978.2	8082.9	8187.7	8255.6	8317.2	8360.3	8372.7	8372.7
37.5°	6837.5	6757.4	6708.1	6708.1	6769.7	6812.8	6874.5	6911.5	6979.4	7003.9	7022.5
40°	5912.6	5727.7	5555.1	5425.7	5339.4	5333.2	5333.2	5351.6	5413.3	5493.4	5567.5
42.5°	5086.5	4790.5	4525.5	4285.0	4112.4	4013.8	3970.6	3976.8	4026.1	4100.1	4223.3
45°	4426.8	4056.9	3724.0	3434.2	3199.9	3045.7	2971.8	2965.6	3002.6	3088.8	3224.6
47.5°	3915.1	3520.5	3144.4	2811.4	2558.7	2392.2	2305.9	2281.3	2305.9	2386.0	2546.4
50°	3489.7	3082.8	2694.3	2349.0	2077.8	1905.2	1824.9	1794.2	1824.9	1892.8	2053.0
52.5°	3095.0	2675.8	2312.1	1979.1	1689.3	1541.3	1455.0	1436.5	1455.0	1535.1	1664.7
55°	2638.8	2281.3	1923.6	1590.7	1338.0	1190.0	1122.1	1103.7	1122.1	1196.2	1331.8
57.5°	2188.8	1880.5	1566.1	1263.9	1048.2	918.6	857.0	832.3	875.4	924.8	1085.1
60°	1769.4	1522.9	1257.7	992.7	813.9	696.7	647.3	641.2	653.5	715.2	826.1
62.5°	1387.3	1183.8	974.1	758.4	610.4	561.0	499.3	493.3	505.5	542.5	628.9
65°	998.8	869.4	709.0	554.9	437.8	369.9	345.3	351.5	363.7	388.5	468.6
67.5°	696.7	604.2	493.3	388.5	302.2	271.2	246.7	240.5	246.7	289.8	332.9
70°	468.6	413.1	332.9	296.0	209.7	166.4	172.6	154.2	178.8	178.8	215.7
72.5°	308.2	271.2	221.9	172.6	148.0	117.2	117.2	111.0	123.3	129.4	160.4
75°	160.4	123.3	123.3	86.3	61.7	30.8	55.5	49.3	43.1	49.3	61.7
77.5°	111.0	92.5	86.3	67.9	61.7	49.3	49.3	49.3	49.3	55.5	61.7
80°	67.9	67.9	49.3	43.1	37.0	30.8	37.0	37.0	37.0	37.0	43.1
82.5°	43.1	37.0	37.0	30.8	30.8	24.6	24.6	24.6	24.6	24.6	37.0
85°	37.0	24.6	24.6	18.6	24.6	43.1	18.6	24.6	24.6	24.6	18.6
87.5°	12.4	18.6	18.6	18.6	12.4	6.2	12.4	18.6	18.6	30.8	24.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3	11486.3
2.5°	11504.8	11511.0	11511.0	11504.8	11504.8	11492.5	11517.1	11498.6	11504.8	11529.4	11511.0
5°	11517.1	11523.2	11523.2	11517.1	11517.1	11517.1	11523.2	11523.2	11517.1	11511.0	11523.2
7.5°	11541.8	11535.6	11535.6	11523.2	11523.2	11511.0	11523.2	11504.8	11517.1	11504.8	11523.2
10°	11511.0	11517.1	11511.0	11504.8	11504.8	11498.6	11498.6	11480.1	11486.3	11467.7	11480.1
12.5°	11492.5	11486.3	11486.3	11473.9	11461.7	11449.3	11443.1	11424.6	11424.6	11381.4	11400.0
15°	11443.1	11449.3	11430.8	11406.2	11393.8	11363.0	11350.7	11325.9	11301.3	11270.5	11276.7
17.5°	11400.0	11381.4	11356.8	11332.1	11282.8	11258.2	11233.4	11196.5	11184.1	11147.2	11134.9
20°	11270.5	11258.2	11227.4	11184.1	11153.3	11097.8	11073.2	11036.3	11005.3	10968.4	10949.8
22.5°	11104.0	11091.6	11054.7	11011.5	10962.2	10937.6	10912.9	10845.1	10814.2	10777.2	10771.1
25°	10894.5	10875.9	10838.9	10789.6	10764.9	10697.1	10672.4	10623.1	10610.8	10573.7	10567.7
27.5°	10573.7	10549.1	10506.0	10444.3	10401.1	10358.0	10333.4	10296.3	10284.1	10247.0	10240.9
30°	10092.9	10062.0	9975.7	9951.1	9877.1	9833.9	9833.9	9784.6	9790.8	9766.2	9766.2
32.5°	9334.6	9285.2	9217.4	9168.0	9118.7	9094.1	9094.1	9075.5	9087.9	9087.9	9100.3
35°	8329.5	8261.8	8224.7	8193.9	8193.9	8218.5	8292.6	8311.1	8348.1	8378.9	8403.6
37.5°	7040.9	7034.9	7078.0	7115.0	7207.5	7312.3	7441.7	7552.8	7657.5	7731.5	7805.5
40°	5647.6	5801.7	5925.0	6097.7	6239.4	6442.9	6677.2	6868.3	7047.1	7176.7	7312.3
42.5°	4408.3	4605.6	4864.6	5117.3	5370.1	5647.6	5955.9	6221.0	6455.3	6634.0	6775.8
45°	3434.2	3705.4	4019.9	4340.5	4667.3	5012.6	5333.2	5604.4	5851.1	6036.0	6177.8
47.5°	2768.3	3064.3	3421.8	3773.3	4143.2	4506.9	4864.6	5098.9	5302.3	5450.2	5579.8
50°	2287.3	2601.9	2978.0	3378.6	3748.6	4112.4	4420.6	4648.7	4815.3	4944.7	5024.8
52.5°	1911.2	2244.2	2645.0	3045.7	3415.6	3748.6	4026.1	4198.7	4334.3	4426.8	4500.7
55°	1578.3	1899.0	2275.1	2651.2	3014.9	3329.3	3557.4	3687.0	3791.7	3847.2	3890.4
57.5°	1288.6	1584.5	1929.8	2275.1	2589.5	2848.5	3027.3	3156.7	3206.1	3249.2	3243.0
60°	1011.2	1288.6	1603.0	1899.0	2170.3	2379.8	2509.4	2583.3	2620.3	2638.8	2626.5
62.5°	795.3	1048.2	1288.6	1547.5	1744.8	1923.6	2047.0	2047.0	2065.4	2071.6	2090.2
65°	591.8	783.0	992.7	1183.8	1344.0	1461.2	1529.1	1547.5	1572.3	1566.1	1553.7
67.5°	437.8	579.6	733.6	875.4	986.5	1060.4	1109.7	1153.0	1146.8	1134.5	1128.3
70°	302.2	394.6	530.3	616.6	696.7	770.7	783.0	789.1	795.3	801.5	789.1
72.5°	209.7	277.4	351.5	425.4	474.8	505.5	536.5	542.5	542.5	542.5	536.5
75°	104.8	141.8	209.7	240.5	283.6	296.0	320.6	320.6	339.1	314.4	308.2
77.5°	92.5	111.0	148.0	172.6	191.1	209.7	215.7	234.3	228.1	215.7	221.9
80°	55.5	67.9	92.5	104.8	129.4	135.6	141.8	148.0	141.8	148.0	148.0
82.5°	43.1	49.3	61.7	61.7	80.1	80.1	86.3	86.3	92.5	92.5	92.5
85°	24.6	43.1	37.0	73.9	49.3	49.3	61.7	73.9	61.7	61.7	73.9
87.5°	24.6	24.6	18.6	24.6	24.6	24.6	30.8	37.0	37.0	43.1	37.0
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: P249117

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11486.3	11486.3	11486.3	11486.3
2.5°	11504.8	11517.1	11498.6	11492.5
5°	11523.2	11523.2	11511.0	11511.0
7.5°	11523.2	11523.2	11504.8	11492.5
10°	11473.9	11473.9	11455.5	11443.1
12.5°	11381.4	11381.4	11375.3	11356.8
15°	11264.4	11264.4	11239.6	11221.2
17.5°	11104.0	11116.4	11085.6	11085.6
20°	10931.4	10925.2	10900.6	10888.3
22.5°	10752.6	10740.3	10734.1	10697.1
25°	10561.5	10549.1	10530.6	10512.2
27.5°	10234.7	10228.6	10210.0	10185.4
30°	9735.3	9729.1	9704.5	9704.5
32.5°	9087.9	9081.7	9057.1	9063.3
35°	8415.8	8440.6	8428.2	8403.6
37.5°	7854.8	7873.3	7885.7	7873.3
40°	7386.2	7441.7	7447.9	7460.3
42.5°	6886.9	6960.8	6985.5	6997.8
45°	6288.7	6356.6	6412.1	6399.8
47.5°	5678.3	5727.7	5777.0	5740.0
50°	5092.7	5123.5	5142.0	5142.0
52.5°	4537.8	4537.8	4531.7	4537.8
55°	3902.7	3902.7	3878.1	3890.4
57.5°	3236.8	3249.2	3230.7	3199.9
60°	2620.3	2589.5	2577.1	2558.7
62.5°	2040.8	2040.8	1997.7	2053.0
65°	1529.1	1510.6	1492.0	1485.8
67.5°	1109.7	1103.7	1085.1	1078.9
70°	783.0	758.4	752.2	739.8
72.5°	524.1	524.1	511.7	511.7
75°	320.6	289.8	283.6	289.8
77.5°	221.9	215.7	215.7	209.7
80°	148.0	141.8	154.2	135.6
82.5°	92.5	98.7	92.5	98.7
85°	61.7	73.9	67.9	67.9
87.5°	37.0	37.0	37.0	37.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)