

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: P249090

Luminaire Tested: **LD8B200D010 ER8B200827 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249090  
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 ER8B200827 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20558.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

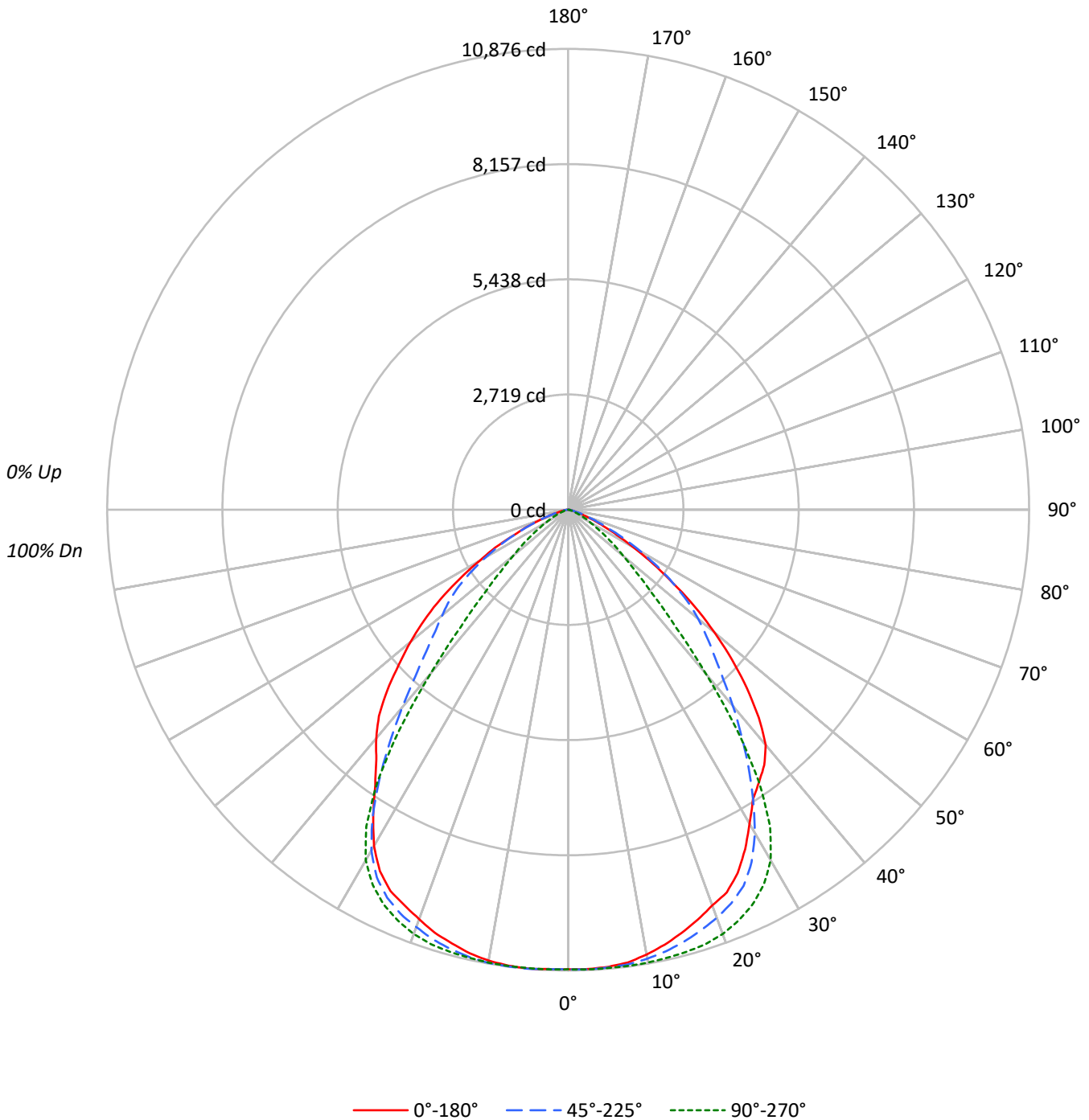
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	334475	334475	334475
5°	335211	336115	336477
10°	333802	339817	338361
15°	330102	344787	338284
20°	326138	349634	337410
25°	321905	350037	337754
30°	304541	340197	326307
35°	295447	295661	298737
40°	291789	203427	283589
45°	259998	122127	263552
50°	216189	81280	232946
55°	162139	56030	197509
60°	109876	37343	149020
65°	66274	24217	102377
70°	36749	13127	62985
75°	16656	5552	32609
80°	14473	6198	22748
85°	16487	8208	22679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1035.2	5.0
10°-20°	3006.3	14.6
20°-30°	4563.0	22.2
30°-40°	4792.5	23.3
40°-50°	3593.1	17.5
50°-60°	2305.4	11.2
60°-70°	986.2	4.8
70°-80°	233.0	1.1
80°-90°	43.3	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°	8604.4	41.9
0°-40°	13396.9	65.2
0°-60°	19295.4	93.9
0°-90°	20558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10847	10847	10847	10847	10847	
5°	10829	10847	10858	10876	10870	###
15°	10340	10556	10800	10730	10596	2917
25°	9461	9793	10288	10102	9927	4322
35°	7848	7412	7854	7761	7936	4926
45°	5962	4873	2800	4734	6044	4566
55°	3016	3016	1042	3144	3674	2736
65°	908	1071	332	1380	1403	970
75°	140	163	47	280	274	204
85°	47	29	23	47	64	49
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°	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8
2.5°	10852.6	10864.3	10858.5	10858.5	10852.6	10858.5	10858.5	10870.2	10870.2	10858.5	10852.6
5°	10829.3	10841.0	10841.0	10829.3	10829.3	10858.5	10841.0	10852.6	10852.6	10846.8	10846.8
7.5°	10777.0	10777.0	10800.2	10782.8	10782.8	10800.2	10794.4	10806.1	10817.7	10823.6	10823.6
10°	10660.5	10672.1	10678.0	10678.0	10683.8	10701.2	10712.9	10736.3	10747.8	10759.5	10765.3
12.5°	10515.0	10532.4	10538.2	10532.4	10549.9	10573.1	10602.3	10631.4	10648.9	10672.1	10689.7
15°	10340.2	10340.2	10351.9	10369.4	10381.1	10416.0	10445.1	10480.0	10526.6	10555.8	10584.8
17.5°	10148.2	10159.9	10177.2	10177.2	10200.6	10258.7	10276.2	10328.7	10381.1	10410.2	10468.4
20°	9938.6	9950.2	9967.7	9979.4	10008.4	10055.0	10089.9	10136.5	10194.8	10247.2	10305.3
22.5°	9775.5	9752.3	9763.8	9775.5	9804.7	9845.4	9886.2	9944.3	10002.6	10055.0	10113.3
25°	9461.1	9466.9	9484.5	9496.0	9531.0	9565.9	9612.5	9682.3	9734.8	9793.0	9857.0
27.5°	9036.1	9042.0	9071.0	9071.0	9100.1	9158.4	9187.4	9245.7	9315.6	9373.8	9449.5
30°	8552.9	8564.4	8564.4	8587.8	8605.2	8634.4	8663.5	8721.7	8756.6	8809.0	8913.9
32.5°	8110.4	8122.0	8116.1	8110.4	8092.9	8087.1	8081.2	8092.9	8104.6	8122.0	8162.7
35°	7848.4	7819.2	7796.0	7755.3	7708.7	7650.4	7598.0	7528.2	7464.1	7411.7	7353.5
37.5°	7598.0	7592.2	7557.2	7499.0	7405.8	7301.1	7178.9	7027.4	6876.0	6713.0	6555.9
40°	7248.7	7231.2	7202.1	7120.6	7015.8	6887.7	6724.7	6538.4	6293.8	6043.5	5787.3
42.5°	6654.8	6660.6	6625.7	6561.6	6462.7	6340.4	6171.5	5967.8	5705.8	5408.8	5077.0
45°	5962.0	5962.0	5950.3	5897.9	5828.1	5729.1	5601.0	5432.2	5176.0	4873.2	4518.0
47.5°	5240.0	5245.8	5228.3	5216.8	5187.6	5123.6	5030.4	4902.4	4721.9	4430.7	4075.5
50°	4506.5	4506.5	4535.5	4529.7	4529.7	4506.5	4465.7	4389.9	4232.8	3999.9	3668.1
52.5°	3772.8	3784.5	3802.0	3825.2	3854.3	3900.9	3854.3	3819.4	3720.4	3539.9	3254.7
55°	3015.9	3027.6	3056.6	3097.4	3132.4	3179.0	3190.5	3190.5	3138.1	3015.9	2800.5
57.5°	2369.7	2352.2	2375.5	2410.4	2457.0	2503.6	2538.5	2579.2	2573.4	2491.9	2317.3
60°	1781.6	1787.5	1804.8	1839.9	1874.8	1915.5	1962.1	1997.0	2014.5	1973.8	1863.1
62.5°	1298.4	1298.4	1321.6	1356.5	1374.0	1432.3	1461.4	1478.9	1496.3	1490.4	1420.6
65°	908.3	919.9	931.5	949.1	966.5	1001.4	1018.9	1053.8	1065.5	1071.3	1018.9
67.5°	640.5	623.0	634.7	646.2	663.7	687.1	722.0	722.0	739.4	739.4	704.5
70°	407.6	407.6	413.4	430.8	442.5	448.3	460.0	471.5	489.1	483.2	483.2
72.5°	273.7	267.8	273.7	279.5	285.3	302.7	302.7	308.6	320.3	326.1	302.7
75°	139.8	145.6	157.1	151.4	168.8	157.1	163.0	180.5	174.7	163.0	163.0
77.5°	116.4	116.4	116.4	110.7	122.2	122.2	116.4	128.1	122.2	122.2	116.4
80°	81.5	87.3	81.5	75.6	81.5	75.6	75.6	75.6	75.6	75.6	69.8
82.5°	64.1	52.4	58.3	52.4	58.3	58.3	52.4	46.6	46.6	52.4	46.6
85°	46.6	34.9	40.7	40.7	34.9	34.9	34.9	34.9	34.9	29.1	29.1
87.5°	29.1	17.5	17.5	17.5	23.2	23.2	23.2	17.5	23.2	23.2	11.7
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°	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8
2.5°	10864.3	10858.5	10870.2	10864.3	10864.3	10858.5	10864.3	10858.5	10870.2	10846.8	10852.6
5°	10864.3	10852.6	10858.5	10864.3	10870.2	10858.5	10858.5	10858.5	10870.2	10858.5	10864.3
7.5°	10841.0	10835.1	10852.6	10864.3	10858.5	10852.6	10864.3	10858.5	10870.2	10864.3	10875.9
10°	10794.4	10800.2	10811.9	10829.3	10835.1	10841.0	10852.6	10852.6	10870.2	10846.8	10858.5
12.5°	10724.6	10747.8	10777.0	10788.5	10811.9	10811.9	10823.6	10829.3	10841.0	10835.1	10852.6
15°	10637.2	10666.3	10701.2	10730.4	10759.5	10777.0	10794.4	10800.2	10817.7	10800.2	10806.1
17.5°	10532.4	10567.3	10619.7	10654.6	10701.2	10718.7	10742.0	10753.6	10771.2	10759.5	10765.3
20°	10386.8	10427.7	10485.8	10538.2	10567.3	10608.0	10637.2	10654.6	10666.3	10654.6	10660.5
22.5°	10183.1	10241.3	10317.0	10357.7	10416.0	10450.9	10456.7	10497.5	10526.6	10497.5	10509.2
25°	9944.3	10002.6	10060.8	10148.2	10200.6	10241.3	10282.1	10287.9	10317.0	10311.2	10305.3
27.5°	9548.4	9624.2	9723.1	9793.0	9862.8	9926.9	9973.5	9985.1	10014.3	10002.6	10008.4
30°	9006.9	9088.6	9181.7	9292.3	9391.3	9455.3	9513.5	9554.3	9583.3	9565.9	9560.1
32.5°	8238.5	8320.0	8419.0	8529.5	8646.1	8739.1	8809.0	8861.5	8896.4	8884.7	8855.6
35°	7359.4	7382.6	7446.7	7534.0	7632.9	7731.9	7796.0	7854.1	7894.9	7906.6	7906.6
37.5°	6456.9	6381.2	6334.6	6334.6	6392.8	6433.5	6491.8	6526.7	6590.8	6614.0	6631.5
40°	5583.5	5408.8	5245.8	5123.6	5042.1	5036.3	5036.3	5053.6	5111.9	5187.6	5257.5
42.5°	4803.3	4523.8	4273.5	4046.4	3883.5	3790.3	3749.6	3755.4	3802.0	3871.8	3988.2
45°	4180.4	3831.0	3516.6	3243.0	3021.7	2876.1	2806.3	2800.5	2835.4	2916.9	3045.1
47.5°	3697.1	3324.5	2969.3	2654.9	2416.3	2259.0	2177.5	2154.3	2177.5	2253.2	2404.6
50°	3295.4	2911.2	2544.3	2218.3	1962.1	1799.1	1723.3	1694.3	1723.3	1787.5	1938.7
52.5°	2922.7	2526.8	2183.3	1868.9	1595.3	1455.5	1374.0	1356.5	1374.0	1449.7	1572.0
55°	2491.9	2154.3	1816.5	1502.1	1263.5	1123.7	1059.6	1042.2	1059.6	1129.6	1257.6
57.5°	2067.0	1775.8	1478.9	1193.5	989.8	867.4	809.3	786.0	826.7	873.3	1024.7
60°	1670.9	1438.1	1187.7	937.4	768.6	657.9	611.3	605.5	617.1	675.4	780.1
62.5°	1310.1	1117.9	919.9	716.1	576.4	529.8	471.5	465.8	477.4	512.3	593.9
65°	943.2	821.0	669.6	524.0	413.4	349.3	326.1	331.9	343.5	366.8	442.5
67.5°	657.9	570.6	465.8	366.8	285.3	256.1	232.9	227.1	232.9	273.7	314.4
70°	442.5	390.1	314.4	279.5	198.0	157.1	163.0	145.6	168.8	168.8	203.7
72.5°	291.0	256.1	209.6	163.0	139.8	110.7	110.7	104.8	116.4	122.2	151.4
75°	151.4	116.4	116.4	81.5	58.3	29.1	52.4	46.6	40.7	46.6	58.3
77.5°	104.8	87.3	81.5	64.1	58.3	46.6	46.6	46.6	46.6	52.4	58.3
80°	64.1	64.1	46.6	40.7	34.9	29.1	34.9	34.9	34.9	34.9	40.7
82.5°	40.7	34.9	34.9	29.1	29.1	23.2	23.2	23.2	23.2	23.2	34.9
85°	34.9	23.2	23.2	17.5	23.2	40.7	17.5	23.2	23.2	23.2	17.5
87.5°	11.7	17.5	17.5	17.5	11.7	5.8	11.7	17.5	17.5	29.1	23.2
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°	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8	10846.8
2.5°	10864.3	10870.2	10870.2	10864.3	10864.3	10852.6	10875.9	10858.5	10864.3	10887.5	10870.2
5°	10875.9	10881.7	10881.7	10875.9	10875.9	10875.9	10881.7	10881.7	10875.9	10870.2	10881.7
7.5°	10899.2	10893.4	10893.4	10881.7	10881.7	10870.2	10881.7	10864.3	10875.9	10864.3	10881.7
10°	10870.2	10875.9	10870.2	10864.3	10864.3	10858.5	10858.5	10841.0	10846.8	10829.3	10841.0
12.5°	10852.6	10846.8	10846.8	10835.1	10823.6	10811.9	10806.1	10788.5	10788.5	10747.8	10765.3
15°	10806.1	10811.9	10794.4	10771.2	10759.5	10730.4	10718.7	10695.4	10672.1	10643.1	10648.9
17.5°	10765.3	10747.8	10724.6	10701.2	10654.6	10631.4	10608.0	10573.1	10561.5	10526.6	10515.0
20°	10643.1	10631.4	10602.3	10561.5	10532.4	10480.0	10456.7	10421.8	10392.6	10357.7	10340.2
22.5°	10485.8	10474.1	10439.2	10398.5	10351.9	10328.7	10305.3	10241.3	10212.1	10177.2	10171.4
25°	10287.9	10270.4	10235.5	10188.9	10165.6	10101.6	10078.2	10031.6	10020.1	9985.1	9979.4
27.5°	9985.1	9961.8	9921.1	9862.8	9822.1	9781.3	9758.1	9723.1	9711.5	9676.5	9670.8
30°	9531.0	9501.8	9420.3	9397.1	9327.2	9286.4	9286.4	9239.9	9245.7	9222.5	9222.5
32.5°	8814.9	8768.3	8704.2	8657.6	8611.0	8587.8	8587.8	8570.3	8582.0	8582.0	8593.6
35°	7865.8	7801.8	7766.8	7737.7	7737.7	7761.0	7830.9	7848.4	7883.3	7912.4	7935.8
37.5°	6648.9	6643.2	6684.0	6718.9	6806.2	6905.2	7027.4	7132.3	7231.2	7301.1	7370.9
40°	5333.2	5478.7	5595.1	5758.3	5892.0	6084.2	6305.4	6485.9	6654.8	6777.1	6905.2
42.5°	4162.8	4349.2	4593.8	4832.4	5071.2	5333.2	5624.3	5874.6	6095.9	6264.7	6398.6
45°	3243.0	3499.1	3796.1	4098.9	4407.4	4733.5	5036.3	5292.4	5525.3	5700.0	5833.9
47.5°	2614.2	2893.7	3231.3	3563.2	3912.5	4256.0	4593.8	4815.0	5007.1	5146.8	5269.2
50°	2160.0	2457.0	2812.2	3190.5	3539.9	3883.5	4174.5	4389.9	4547.2	4669.4	4745.1
52.5°	1804.8	2119.2	2497.8	2876.1	3225.5	3539.9	3802.0	3965.0	4093.0	4180.4	4250.2
55°	1490.4	1793.3	2148.4	2503.6	2847.1	3144.0	3359.4	3481.7	3580.6	3633.0	3673.8
57.5°	1216.9	1496.3	1822.4	2148.4	2445.3	2689.9	2858.8	2981.0	3027.6	3068.3	3062.5
60°	954.9	1216.9	1513.8	1793.3	2049.4	2247.3	2369.7	2439.5	2474.4	2491.9	2480.2
62.5°	751.1	989.8	1216.9	1461.4	1647.7	1816.5	1933.0	1933.0	1950.4	1956.3	1973.8
65°	558.9	739.4	937.4	1117.9	1269.2	1379.9	1444.0	1461.4	1484.7	1478.9	1467.2
67.5°	413.4	547.3	692.8	826.7	931.5	1001.4	1047.9	1088.8	1083.0	1071.3	1065.5
70°	285.3	372.7	500.7	582.2	657.9	727.8	739.4	745.2	751.1	756.9	745.2
72.5°	198.0	262.0	331.9	401.7	448.3	477.4	506.6	512.3	512.3	512.3	506.6
75°	99.0	133.9	198.0	227.1	267.8	279.5	302.7	302.7	320.3	296.9	291.0
77.5°	87.3	104.8	139.8	163.0	180.5	198.0	203.7	221.2	215.4	203.7	209.6
80°	52.4	64.1	87.3	99.0	122.2	128.1	133.9	139.8	133.9	139.8	139.8
82.5°	40.7	46.6	58.3	58.3	75.6	75.6	81.5	81.5	87.3	87.3	87.3
85°	23.2	40.7	34.9	69.8	46.6	46.6	58.3	69.8	58.3	58.3	69.8
87.5°	23.2	23.2	17.5	23.2	23.2	23.2	29.1	34.9	34.9	40.7	34.9
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: P249090

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	10846.8	10846.8	10846.8	10846.8
2.5°	10864.3	10875.9	10858.5	10852.6
5°	10881.7	10881.7	10870.2	10870.2
7.5°	10881.7	10881.7	10864.3	10852.6
10°	10835.1	10835.1	10817.7	10806.1
12.5°	10747.8	10747.8	10742.0	10724.6
15°	10637.2	10637.2	10613.9	10596.5
17.5°	10485.8	10497.5	10468.4	10468.4
20°	10322.8	10317.0	10293.8	10282.1
22.5°	10154.0	10142.3	10136.5	10101.6
25°	9973.5	9961.8	9944.3	9926.9
27.5°	9664.9	9659.1	9641.6	9618.4
30°	9193.3	9187.4	9164.2	9164.2
32.5°	8582.0	8576.1	8552.9	8558.7
35°	7947.3	7970.7	7959.0	7935.8
37.5°	7417.5	7435.0	7446.7	7435.0
40°	6975.0	7027.4	7033.3	7045.0
42.5°	6503.5	6573.3	6596.6	6608.2
45°	5938.6	6002.7	6055.1	6043.5
47.5°	5362.2	5408.8	5455.4	5420.5
50°	4809.2	4838.2	4855.8	4855.8
52.5°	4285.2	4285.2	4279.4	4285.2
55°	3685.5	3685.5	3662.2	3673.8
57.5°	3056.6	3068.3	3050.8	3021.7
60°	2474.4	2445.3	2433.7	2416.3
62.5°	1927.2	1927.2	1886.5	1938.7
65°	1444.0	1426.5	1408.9	1403.1
67.5°	1047.9	1042.2	1024.7	1018.9
70°	739.4	716.1	710.3	698.6
72.5°	494.9	494.9	483.2	483.2
75°	302.7	273.7	267.8	273.7
77.5°	209.6	203.7	203.7	198.0
80°	139.8	133.9	145.6	128.1
82.5°	87.3	93.2	87.3	93.2
85°	58.3	69.8	64.1	64.1
87.5°	34.9	34.9	34.9	34.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)