

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: P250223

Luminaire Tested: **LD8B175D010 ER8B175835 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175835 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18703.0 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

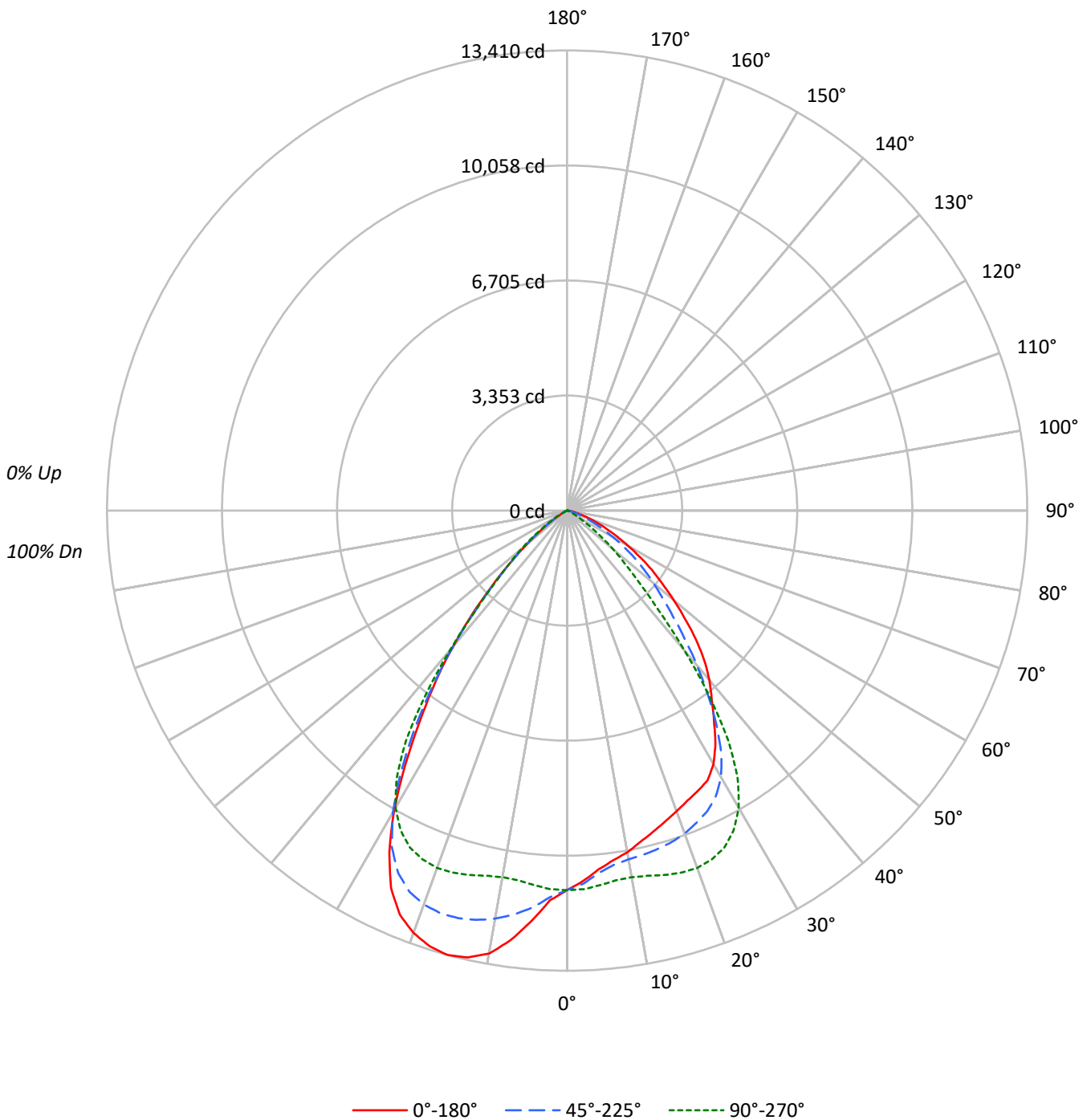
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	341022	341022	341022
5°	324891	339124	371765
10°	316511	339651	410363
15°	309335	350907	428115
20°	305931	363587	429723
25°	306646	368723	413029
30°	303800	356060	359190
35°	280724	308148	281108
40°	259409	213644	208447
45°	230998	128913	133187
50°	194362	83055	75370
55°	161704	45557	34456
60°	126213	19754	10836
65°	93140	9806	5275
70°	64761	6059	2317
75°	39412	1239	0
80°	28448	1847	0
85°	18292	1804	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1063.2	5.7
10°-20°	3181.9	17.0
20°-30°	4872.8	26.1
30°-40°	4776.9	25.5
40°-50°	2876.7	15.4
50°-60°	1324.0	7.1
60°-70°	465.1	2.5
70°-80°	121.7	0.7
80°-90°	20.7	0.1
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°	9117.8	48.8
0°-40°	13894.8	74.3
0°-60°	18095.5	96.8
0°-90°	18703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18703.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11059	11059	11059	11059	11059	
5°	10496	10594	10956	11612	12010	991
15°	9690	10212	10992	12294	13410	2738
25°	9013	9664	10837	11653	12139	4151
35°	7457	7561	8186	7716	7468	4670
45°	5297	4362	2956	2977	3054	4062
55°	3008	2382	847	667	641	2684
65°	1276	884	134	67	72	1300
75°	331	191	10	0	0	401
85°	52	26	5	0	0	71
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°	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1
2.5°	10800.7	10811.1	10811.1	10811.1	10831.7	10837.1	10831.7	10837.1	10847.3	10883.4	10899.0
5°	10495.9	10480.3	10490.8	10485.4	10511.4	10526.9	10516.5	10532.0	10568.2	10594.1	10619.9
7.5°	10278.9	10278.9	10278.9	10289.1	10304.6	10335.7	10330.6	10340.8	10377.0	10413.1	10449.3
10°	10108.3	10103.2	10103.2	10128.9	10149.6	10185.7	10196.1	10227.2	10273.6	10320.2	10361.4
12.5°	9886.0	9891.3	9917.1	9943.0	9989.4	10046.2	10077.2	10118.7	10191.0	10268.5	10315.1
15°	9689.7	9694.8	9715.6	9767.1	9824.1	9891.3	9958.3	10025.6	10113.4	10211.7	10294.4
17.5°	9498.5	9503.6	9519.1	9576.1	9648.4	9736.3	9813.7	9901.5	10015.3	10128.9	10232.3
20°	9322.8	9317.6	9343.4	9395.1	9488.2	9570.8	9648.4	9751.8	9875.8	10015.3	10134.0
22.5°	9152.2	9152.2	9178.1	9229.8	9312.5	9395.1	9477.8	9586.3	9710.3	9844.7	9984.3
25°	9012.6	9007.5	9043.7	9069.6	9131.5	9214.3	9302.1	9390.0	9514.0	9663.9	9798.2
27.5°	8862.9	8857.8	8862.9	8893.9	8950.7	9012.6	9079.8	9157.5	9260.9	9384.9	9514.0
30°	8532.1	8537.2	8537.2	8563.2	8594.2	8661.2	8697.4	8775.0	8868.0	8971.4	9085.2
32.5°	8041.2	8046.3	8046.3	8056.7	8082.4	8113.5	8144.5	8201.3	8273.7	8361.5	8464.9
35°	7457.3	7457.3	7451.9	7457.3	7472.8	7472.8	7498.5	7472.8	7509.0	7560.6	7638.1
37.5°	6919.7	6909.3	6899.1	6888.7	6873.2	6847.4	6811.3	6749.1	6733.6	6713.0	6718.1
40°	6444.3	6439.2	6408.2	6382.2	6330.5	6268.6	6180.8	6072.3	5984.4	5881.1	5793.2
42.5°	5917.2	5911.9	5886.2	5839.6	5782.8	5689.8	5550.3	5405.7	5230.0	5074.9	4914.7
45°	5297.0	5312.5	5276.3	5224.6	5157.4	5069.6	4914.7	4738.8	4563.1	4361.7	4160.0
47.5°	4651.0	4645.8	4620.1	4589.1	4532.3	4444.4	4341.0	4149.8	3963.7	3777.8	3571.0
50°	4051.5	4030.9	4020.5	3989.6	3953.5	3881.1	3772.5	3617.4	3452.1	3276.4	3085.2
52.5°	3483.2	3483.2	3457.2	3436.6	3405.5	3348.7	3255.8	3131.8	2992.2	2826.7	2625.3
55°	3007.8	2997.3	2971.6	2945.6	2914.6	2878.4	2795.9	2692.5	2542.5	2382.4	2206.7
57.5°	2501.3	2496.0	2485.8	2454.7	2439.2	2403.0	2310.1	2206.7	2077.6	1938.0	1793.2
60°	2046.5	2025.9	2005.0	1984.4	1958.7	1922.5	1860.4	1772.5	1664.0	1540.0	1395.4
62.5°	1638.3	1669.2	1607.3	1607.3	1555.6	1524.5	1467.7	1416.0	1302.2	1188.6	1064.6
65°	1276.5	1276.5	1250.5	1229.9	1198.8	1162.7	1105.9	1054.2	971.5	883.6	795.8
67.5°	976.8	971.5	945.7	925.1	899.1	878.5	837.2	775.1	713.2	640.9	568.4
70°	718.3	713.2	707.9	671.7	651.1	625.4	594.3	553.1	506.5	454.8	387.6
72.5°	516.7	516.7	501.4	485.8	465.2	444.4	413.5	387.6	346.3	310.1	263.6
75°	330.8	325.7	325.7	299.7	299.7	268.7	248.0	232.5	211.9	191.2	150.0
77.5°	237.8	232.5	227.4	217.0	206.8	196.3	180.8	160.2	144.6	124.0	108.5
80°	160.2	150.0	144.6	144.6	129.1	124.0	129.1	98.3	93.0	77.4	67.2
82.5°	98.3	98.3	93.0	93.0	87.9	82.7	67.2	67.2	62.1	56.8	46.6
85°	51.7	67.2	46.6	51.7	46.6	51.7	46.6	36.2	31.1	25.7	25.7
87.5°	31.1	20.6	20.6	31.1	25.7	20.6	20.6	20.6	15.5	10.4	10.4
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: P250223

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1
2.5°	10888.7	10924.9	10919.6	10966.2	10981.7	11017.9	11017.9	11043.6	11059.1	11095.3	11126.3
5°	10630.3	10687.1	10702.6	10759.4	10806.0	10862.8	10899.0	10955.7	11007.4	11085.1	11157.4
7.5°	10470.1	10516.5	10547.6	10614.8	10666.5	10728.4	10790.5	10867.9	10940.2	11033.4	11136.8
10°	10392.5	10454.6	10501.0	10568.2	10630.3	10697.5	10759.4	10847.3	10930.0	11048.9	11162.5
12.5°	10371.9	10444.2	10501.0	10594.1	10656.0	10728.4	10800.7	10899.0	10986.8	11110.8	11240.1
15°	10371.9	10470.1	10547.6	10650.9	10723.3	10816.2	10893.8	10991.9	11090.2	11219.3	11343.3
17.5°	10351.2	10470.1	10568.2	10687.1	10780.0	10873.2	10971.3	11064.4	11167.6	11291.8	11431.2
20°	10268.5	10418.4	10537.1	10676.7	10774.9	10878.3	10976.6	11079.8	11188.5	11317.6	11436.5
22.5°	10123.8	10299.5	10434.0	10583.7	10697.5	10800.7	10899.0	11002.3	11121.2	11245.2	11369.3
25°	9932.6	10097.9	10242.7	10397.6	10511.4	10625.0	10718.1	10837.1	10945.5	11064.4	11162.5
27.5°	9643.1	9818.8	9958.3	10118.7	10221.9	10330.6	10408.0	10506.3	10609.7	10707.7	10785.4
30°	9209.2	9369.3	9514.0	9658.6	9762.0	9839.6	9922.2	9999.8	10067.0	10134.0	10201.3
32.5°	8573.4	8718.2	8857.8	8992.0	9074.7	9141.9	9203.8	9250.4	9286.6	9322.8	9327.9
35°	7700.2	7818.9	7906.7	8025.6	8103.3	8165.2	8165.2	8185.8	8180.7	8165.2	8149.6
37.5°	6723.4	6769.8	6805.9	6852.5	6857.6	6857.6	6826.8	6800.8	6759.6	6749.1	6718.1
40°	5705.4	5643.3	5596.7	5534.8	5498.6	5421.0	5354.0	5307.4	5240.2	5230.0	5219.5
42.5°	4738.8	4594.2	4465.0	4356.6	4232.5	4123.9	4025.8	3953.5	3901.8	3896.5	3901.8
45°	3953.5	3788.0	3596.8	3447.0	3307.5	3173.0	3043.9	2956.1	2909.5	2899.1	2909.5
47.5°	3359.2	3167.9	2981.8	2811.2	2661.5	2511.5	2382.4	2263.5	2206.7	2191.1	2186.0
50°	2888.8	2692.5	2496.0	2320.3	2155.0	2005.0	1844.9	1731.3	1658.9	1633.0	1612.4
52.5°	2429.0	2253.3	2051.6	1870.8	1705.3	1529.6	1364.3	1235.0	1162.7	1131.8	1111.0
55°	2025.9	1850.2	1664.0	1488.3	1312.6	1136.9	971.5	847.4	770.0	733.9	707.9
57.5°	1617.5	1452.2	1292.0	1116.3	971.5	801.1	635.6	527.1	459.9	418.6	398.0
60°	1250.5	1121.4	981.9	837.2	697.7	558.2	423.7	320.3	268.7	237.8	211.9
62.5°	945.7	837.2	744.1	620.1	511.6	392.7	289.5	206.8	160.2	134.4	124.0
65°	682.2	599.4	516.7	439.3	361.8	274.0	196.3	134.4	93.0	77.4	72.3
67.5°	485.8	418.6	356.5	304.8	248.0	196.3	139.5	93.0	72.3	62.1	56.8
70°	341.0	289.5	248.0	201.7	165.3	129.1	108.5	67.2	41.3	46.6	36.2
72.5°	227.4	191.2	170.6	139.5	113.6	93.0	67.2	46.6	46.6	36.2	31.1
75°	124.0	113.6	87.9	67.2	56.8	51.7	20.6	10.4	5.1	15.5	5.1
77.5°	87.9	77.4	67.2	56.8	46.6	36.2	20.6	20.6	15.5	20.6	10.4
80°	56.8	46.6	41.3	41.3	25.7	15.5	10.4	10.4	15.5	5.1	5.1
82.5°	36.2	31.1	25.7	25.7	25.7	15.5	15.5	15.5	15.5	10.4	10.4
85°	20.6	15.5	10.4	10.4	5.1	10.4	0.0	5.1	5.1	0.0	0.0
87.5°	10.4	5.1	5.1	5.1	5.1	0.0	0.0	5.1	0.0	5.1	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1	11059.1
2.5°	11147.0	11167.6	11193.6	11214.2	11260.8	11271.0	11291.8	11312.5	11328.0	11343.3	11348.6
5°	11219.3	11296.9	11369.3	11446.7	11545.0	11612.2	11689.6	11756.8	11824.0	11880.8	11922.1
7.5°	11240.1	11358.8	11467.5	11601.8	11746.4	11870.6	11999.7	12128.9	12263.3	12366.7	12454.5
10°	11281.4	11426.1	11565.6	11725.8	11911.9	12077.2	12237.3	12407.9	12578.5	12723.2	12852.5
12.5°	11353.7	11513.9	11663.9	11839.6	12030.8	12216.7	12392.4	12583.6	12764.7	12924.8	13069.5
15°	11472.6	11622.4	11767.2	11932.5	12123.7	12294.3	12470.0	12656.0	12837.0	13002.3	13136.7
17.5°	11550.1	11689.6	11834.2	11984.2	12144.4	12299.4	12464.7	12630.2	12795.5	12945.5	13069.5
20°	11550.1	11684.5	11793.0	11927.4	12077.2	12211.6	12346.0	12490.7	12635.3	12759.3	12878.2
22.5°	11457.1	11586.2	11669.0	11772.3	11901.5	12015.3	12087.6	12247.8	12356.2	12464.7	12552.6
25°	11240.1	11333.1	11400.3	11472.6	11576.0	11653.4	11715.6	11808.5	11917.0	11958.5	12020.4
27.5°	10847.3	10914.5	10950.6	10966.2	11017.9	11059.1	11069.5	11110.8	11157.4	11167.6	11193.6
30°	10227.2	10232.3	10216.8	10211.7	10185.7	10154.9	10149.6	10144.5	10123.8	10103.2	10108.3
32.5°	9291.7	9266.0	9203.8	9136.8	9069.6	8997.3	8955.8	8904.1	8873.1	8842.2	8806.1
35°	8082.4	8020.5	7932.7	7849.9	7772.5	7715.5	7622.5	7591.5	7560.6	7519.2	7509.0
37.5°	6661.3	6625.1	6542.4	6480.5	6439.2	6413.3	6366.7	6335.8	6335.8	6320.3	6309.9
40°	5193.6	5183.4	5152.3	5167.8	5147.2	5157.4	5152.3	5141.9	5167.8	5167.8	5178.3
42.5°	3896.5	3901.8	3917.3	3927.5	3958.6	3963.7	3989.6	3989.6	4005.2	4020.5	4030.9
45°	2899.1	2919.9	2919.9	2940.5	2971.6	2976.7	2986.9	2992.2	3002.4	3028.4	3038.6
47.5°	2175.6	2180.7	2180.7	2186.0	2196.3	2206.7	2201.6	2206.7	2222.2	2211.8	2222.2
50°	1607.3	1612.4	1596.8	1581.3	1596.8	1596.8	1591.7	1576.2	1591.7	1571.1	1581.3
52.5°	1095.7	1090.4	1074.8	1080.2	1069.7	1064.6	1064.6	1054.2	1054.2	1054.2	1033.6
55°	692.6	692.6	682.2	682.2	677.1	666.6	661.5	656.2	651.1	646.0	646.0
57.5°	387.6	392.7	377.4	372.0	377.4	372.0	361.8	361.8	361.8	346.3	356.5
60°	211.9	206.8	201.7	196.3	191.2	196.3	196.3	186.1	186.1	186.1	191.2
62.5°	113.6	113.6	108.5	108.5	103.4	103.4	113.6	98.3	103.4	98.3	103.4
65°	62.1	77.4	56.8	56.8	72.3	67.2	62.1	62.1	67.2	56.8	62.1
67.5°	67.2	46.6	41.3	46.6	41.3	41.3	41.3	51.7	46.6	36.2	46.6
70°	31.1	36.2	36.2	25.7	41.3	20.6	36.2	20.6	31.1	25.7	31.1
72.5°	31.1	31.1	31.1	20.6	31.1	20.6	25.7	25.7	20.6	20.6	31.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.4	10.4	5.1	5.1	5.1	5.1	10.4	10.4	10.4	0.0	5.1
80°	10.4	10.4	0.0	5.1	0.0	0.0	5.1	0.0	5.1	0.0	10.4
82.5°	5.1	10.4	5.1	5.1	10.4	10.4	10.4	5.1	5.1	5.1	5.1
85°	0.0	5.1	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	5.1
87.5°	0.0	5.1	0.0	0.0	0.0	0.0	5.1	5.1	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: P250223

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11059.1	11059.1	11059.1	11059.1
2.5°	11353.7	11358.8	11369.3	11364.2
5°	11953.2	11994.6	12015.3	12010.2
7.5°	12516.4	12589.0	12630.2	12630.2
10°	12950.6	13033.3	13095.2	13105.6
12.5°	13183.1	13276.2	13359.0	13338.1
15°	13250.3	13343.4	13426.0	13410.4
17.5°	13172.8	13265.8	13327.9	13317.5
20°	12961.0	13038.4	13100.5	13095.2
22.5°	12630.2	12697.4	12749.1	12743.8
25°	12072.1	12118.6	12159.9	12139.3
27.5°	11214.2	11229.7	11255.5	11224.6
30°	10072.1	10082.3	10092.8	10087.7
32.5°	8790.5	8785.2	8775.0	8764.6
35°	7493.4	7493.4	7498.5	7467.5
37.5°	6315.0	6309.9	6325.4	6309.9
40°	5188.5	5183.4	5204.0	5178.3
42.5°	4046.4	4062.0	4067.1	4067.1
45°	3043.9	3049.0	3054.1	3054.1
47.5°	2222.2	2227.3	2253.3	2222.2
50°	1571.1	1576.2	1581.3	1571.1
52.5°	1038.7	1044.0	1038.7	1023.1
55°	635.6	640.9	640.9	640.9
57.5°	341.0	346.3	346.3	341.0
60°	186.1	180.8	186.1	175.7
62.5°	98.3	108.5	103.4	93.0
65°	62.1	62.1	62.1	72.3
67.5°	51.7	41.3	46.6	36.2
70°	31.1	36.2	36.2	25.7
72.5°	25.7	25.7	25.7	31.1
75°	0.0	0.0	0.0	0.0
77.5°	10.4	10.4	10.4	5.1
80°	5.1	0.0	5.1	0.0
82.5°	5.1	5.1	10.4	5.1
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)