

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: P248460

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200835 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE 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: 22084.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

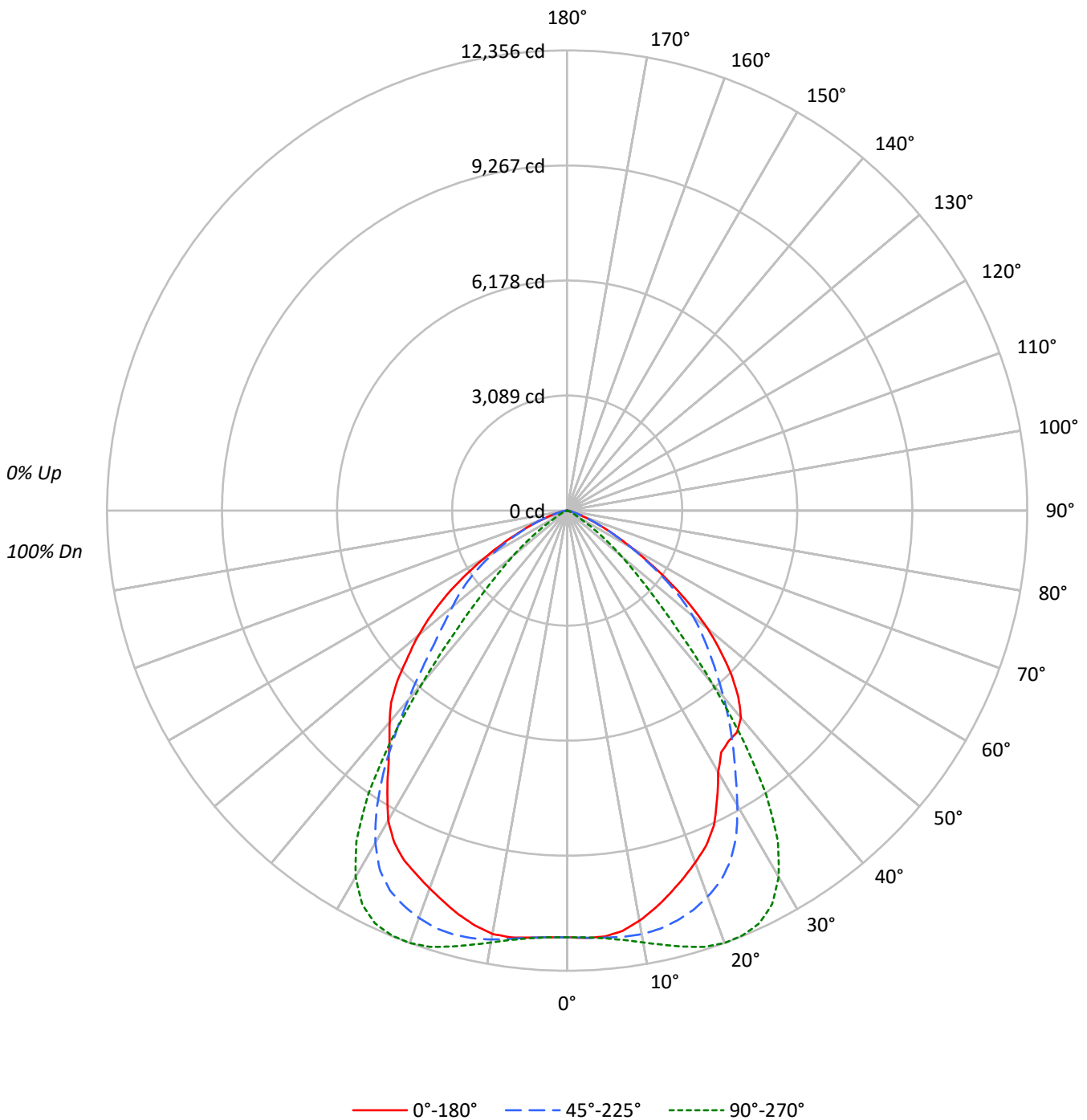
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

**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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	353273	353273	353273
5°	355378	356697	356319
10°	350156	368627	361394
15°	339918	386898	358552
20°	330053	405479	354199
25°	317380	415866	352554
30°	288838	404464	342102
35°	284534	350464	314754
40°	292272	243069	298386
45°	272082	146910	280568
50°	236002	90721	250005
55°	181112	47401	212170
60°	123382	19125	160133
65°	76752	9763	110476
70°	41663	6041	67439
75°	21732	2895	39853
80°	9731	3250	21594
85°	6475	2158	19389



TEST NUMBER: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1101.7	5.0
10°-20°	3263.8	14.8
20°-30°	4979.2	22.5
30°-40°	5195.9	23.5
40°-50°	3902.8	17.7
50°-60°	2401.3	10.9
60°-70°	977.2	4.4
70°-80°	230.3	1.0
80°-90°	31.7	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°	9344.8	42.3
0°-40°	14540.7	65.8
0°-60°	20844.8	94.4
0°-90°	22084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11456	11456	11456	11456	11456	
5°	11481	11511	11523	11511	11511	###
15°	10648	11396	12119	11785	11231	2999
25°	9328	10374	12223	11256	10362	4241
35°	7558	7772	9310	8604	8361	4773
45°	6239	5400	3369	5029	6434	4760
55°	3369	3198	882	3198	3946	3028
65°	1052	1064	134	1429	1514	1097
75°	182	182	24	322	334	220
85°	18	18	6	43	55	26
90°	0	0	0	0	0	



TEST NUMBER: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4
2.5°	11486.9	11468.6	11486.9	11486.9	11493.0	11480.8	11486.9	11493.0	11480.8	11480.8	11480.8
5°	11480.8	11468.6	11480.8	11474.7	11486.9	11486.9	11499.1	11499.1	11511.2	11511.2	11529.5
7.5°	11383.5	11359.2	11383.5	11401.8	11413.8	11438.2	11468.6	11493.0	11517.3	11541.7	11572.0
10°	11182.8	11182.8	11201.1	11237.5	11274.0	11316.5	11371.3	11432.1	11493.0	11547.6	11602.4
12.5°	10933.5	10915.2	10951.7	11000.4	11055.1	11122.1	11207.2	11298.4	11395.7	11505.1	11590.3
15°	10647.7	10629.4	10672.0	10720.6	10787.6	10884.9	10988.3	11109.9	11249.7	11395.7	11535.6
17.5°	10355.8	10349.7	10392.3	10459.2	10514.0	10617.2	10751.1	10897.0	11055.1	11249.7	11432.1
20°	10057.9	10051.8	10094.4	10149.1	10222.0	10319.3	10453.1	10623.3	10811.8	11030.9	11243.6
22.5°	9747.7	9753.8	9790.2	9851.1	9912.0	10015.2	10155.1	10325.4	10532.1	10769.3	11006.5
25°	9328.1	9297.7	9346.4	9407.3	9510.5	9595.6	9729.5	9912.0	10124.7	10374.1	10653.8
27.5°	8720.0	8713.9	8756.6	8811.2	8902.4	9005.8	9151.8	9340.3	9565.3	9838.9	10112.5
30°	8111.9	8124.1	8142.4	8197.1	8257.9	8361.3	8507.2	8665.4	8878.2	9139.6	9431.5
32.5°	7698.4	7698.4	7722.8	7759.3	7801.8	7856.6	7960.0	8075.4	8239.7	8422.1	8634.9
35°	7558.5	7534.3	7558.5	7564.6	7570.7	7582.9	7601.1	7637.7	7692.3	7771.5	7850.5
37.5°	7497.8	7479.5	7479.5	7455.3	7424.8	7388.3	7339.7	7284.9	7224.2	7145.1	7084.3
40°	7260.7	7248.5	7236.3	7212.0	7145.1	7072.1	6993.0	6865.3	6725.5	6530.9	6336.4
42.5°	6804.6	6792.4	6786.3	6737.7	6676.8	6591.7	6500.5	6366.7	6190.4	5941.0	5661.3
45°	6239.1	6214.7	6196.5	6154.0	6111.3	6038.4	5953.2	5831.5	5655.2	5399.9	5065.4
47.5°	5582.3	5570.1	5564.0	5545.9	5503.3	5460.6	5406.0	5308.7	5150.5	4907.3	4560.7
50°	4919.5	4895.2	4907.3	4901.3	4883.0	4852.6	4816.0	4749.2	4627.5	4408.7	4092.5
52.5°	4159.3	4159.3	4153.3	4171.5	4177.6	4171.5	4177.6	4104.7	4001.3	3837.0	3569.5
55°	3368.8	3368.8	3387.1	3411.5	3435.7	3441.8	3435.7	3405.4	3332.3	3198.5	2961.4
57.5°	2626.9	2614.8	2651.3	2687.7	2712.1	2736.4	2718.1	2693.8	2651.3	2541.8	2359.4
60°	2000.6	2000.6	2024.9	2049.3	2073.5	2097.9	2091.8	2085.7	2049.3	1976.2	1830.4
62.5°	1471.5	1477.6	1477.6	1495.9	1520.2	1544.6	1562.7	1544.6	1526.3	1477.6	1380.3
65°	1051.9	1045.8	1051.9	1070.2	1088.5	1112.8	1125.0	1118.9	1100.6	1064.1	991.2
67.5°	705.4	699.3	723.6	729.7	741.9	766.3	760.2	766.3	760.2	729.7	669.0
70°	462.1	449.9	462.1	456.0	474.3	480.4	492.5	498.6	492.5	474.3	456.0
72.5°	285.8	279.7	285.8	291.9	298.0	304.0	316.2	316.2	310.1	298.0	273.6
75°	182.4	164.1	170.2	158.2	170.2	170.2	182.4	188.5	182.4	182.4	170.2
77.5°	109.5	109.5	109.5	109.5	109.5	109.5	109.5	115.6	121.6	109.5	103.4
80°	54.8	54.8	60.9	60.9	60.9	67.0	60.9	60.9	60.9	67.0	48.7
82.5°	42.6	36.5	36.5	36.5	42.6	36.5	36.5	36.5	36.5	36.5	36.5
85°	18.3	24.3	18.3	12.2	18.3	18.3	24.3	18.3	18.3	18.3	24.3
87.5°	6.1	6.1	0.0	0.0	0.0	6.1	0.0	6.1	6.1	12.2	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: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4
2.5°	11486.9	11474.7	11474.7	11468.6	11480.8	11468.6	11474.7	11468.6	11468.6	11480.8	11468.6
5°	11529.5	11535.6	11523.4	11517.3	11535.6	11535.6	11535.6	11523.4	11523.4	11529.5	11523.4
7.5°	11590.3	11602.4	11608.5	11614.6	11626.8	11632.9	11632.9	11626.8	11620.7	11639.0	11614.6
10°	11657.1	11675.4	11711.9	11730.2	11760.5	11760.5	11772.7	11772.7	11760.5	11772.7	11766.6
12.5°	11632.9	11742.2	11803.1	11845.6	11888.2	11924.6	11936.8	11942.9	11936.8	11961.2	11936.8
15°	11675.4	11766.6	11863.9	11936.8	12015.9	12058.4	12070.6	12119.3	12131.5	12137.6	12101.1
17.5°	11608.5	11772.7	11876.0	11985.5	12101.1	12180.1	12253.0	12283.5	12289.6	12301.7	12253.0
20°	11456.4	11639.0	11797.0	11955.1	12088.9	12210.5	12271.3	12356.4	12332.2	12380.8	12313.9
22.5°	11249.7	11456.4	11657.1	11863.9	12003.8	12149.8	12277.4	12338.1	12368.6	12368.6	12295.6
25°	10921.3	11164.6	11383.5	11596.3	11809.2	11985.5	12131.5	12222.7	12241.0	12234.9	12149.8
27.5°	10410.6	10672.0	10927.4	11170.7	11432.1	11639.0	11809.2	11918.5	11949.0	11949.0	11857.8
30°	9705.1	9984.9	10234.2	10526.0	10793.7	11024.8	11261.9	11359.2	11413.8	11413.8	11310.6
32.5°	8866.0	9103.1	9334.2	9620.0	9912.0	10173.4	10398.4	10532.1	10599.1	10593.0	10501.8
35°	7953.9	8069.3	8245.8	8458.6	8720.0	8963.3	9182.1	9309.9	9425.4	9419.3	9334.2
37.5°	7041.6	7011.3	7029.6	7108.6	7272.7	7443.1	7613.3	7735.0	7832.2	7874.9	7856.6
40°	6147.9	5989.7	5837.6	5783.0	5795.1	5855.9	5947.1	6038.4	6147.9	6202.6	6226.9
42.5°	5345.1	5077.6	4809.9	4609.4	4493.8	4457.3	4499.9	4530.2	4597.2	4676.2	4755.3
45°	4700.6	4341.8	3989.1	3679.0	3484.4	3368.8	3344.5	3368.8	3405.4	3484.4	3587.8
47.5°	4171.5	3751.9	3356.7	3010.0	2724.2	2572.3	2529.7	2517.5	2554.0	2626.9	2766.8
50°	3703.2	3283.7	2845.9	2444.5	2146.6	1976.2	1915.5	1891.1	1933.7	1988.4	2116.1
52.5°	3192.4	2779.0	2329.0	1939.8	1629.7	1453.4	1386.4	1350.0	1374.2	1447.3	1574.9
55°	2639.1	2256.0	1848.6	1447.3	1149.3	985.1	906.0	881.7	906.0	985.1	1112.8
57.5°	2085.7	1763.5	1422.9	1045.8	778.3	614.2	535.1	510.8	577.7	608.1	741.9
60°	1629.7	1368.3	1076.3	766.3	535.1	407.4	328.4	310.1	340.6	395.2	504.7
62.5°	1222.3	1058.0	827.0	547.3	395.2	261.4	218.9	200.7	218.9	261.4	346.7
65°	887.8	760.2	577.7	401.3	267.5	194.6	146.0	133.8	152.1	182.4	255.5
67.5°	608.1	510.8	401.3	279.7	182.4	121.6	103.4	103.4	109.5	133.8	188.5
70°	395.2	334.5	255.5	182.4	121.6	91.2	79.0	67.0	79.0	97.3	127.7
72.5°	249.4	212.8	164.1	127.7	91.2	67.0	54.8	48.7	60.9	72.9	97.3
75°	152.1	115.6	85.1	67.0	48.7	48.7	48.7	24.3	30.4	48.7	60.9
77.5°	91.2	79.0	67.0	54.8	42.6	24.3	24.3	24.3	30.4	36.5	54.8
80°	48.7	42.6	30.4	30.4	24.3	18.3	24.3	18.3	12.2	30.4	36.5
82.5°	30.4	24.3	24.3	24.3	30.4	12.2	18.3	12.2	18.3	24.3	18.3
85°	18.3	18.3	18.3	12.2	30.4	12.2	12.2	6.1	6.1	12.2	12.2
87.5°	0.0	6.1	6.1	0.0	6.1	0.0	6.1	6.1	6.1	6.1	6.1
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: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4	11456.4
2.5°	11474.7	11468.6	11474.7	11468.6	11468.6	11468.6	11474.7	11474.7	11468.6	11468.6	11480.8
5°	11523.4	11523.4	11523.4	11517.3	11511.2	11511.2	11523.4	11523.4	11505.1	11523.4	11523.4
7.5°	11626.8	11608.5	11626.8	11602.4	11590.3	11596.3	11602.4	11590.3	11578.1	11584.2	11584.2
10°	11760.5	11742.2	11742.2	11724.1	11705.8	11693.6	11681.5	11651.0	11620.7	11614.6	11590.3
12.5°	11918.5	11888.2	11870.0	11833.4	11803.1	11760.5	11724.1	11675.4	11614.6	11572.0	11529.5
15°	12076.7	12028.1	11985.5	11924.6	11857.8	11784.8	11705.8	11626.8	11529.5	11444.3	11371.3
17.5°	12204.4	12137.6	12058.4	11961.2	11863.9	11754.4	11639.0	11523.4	11383.5	11274.0	11188.9
20°	12246.9	12149.8	12046.3	11918.5	11790.9	11639.0	11493.0	11340.9	11182.8	11067.3	10970.0
22.5°	12192.3	12076.7	11949.0	11815.3	11644.9	11480.8	11310.6	11134.1	10994.3	10836.2	10745.0
25°	12040.3	11900.4	11760.5	11602.4	11438.2	11255.8	11073.4	10891.0	10720.6	10635.5	10520.1
27.5°	11730.2	11578.1	11426.0	11261.9	11073.4	10891.0	10702.5	10526.0	10380.2	10264.6	10197.8
30°	11182.8	11006.5	10830.1	10653.8	10489.6	10301.0	10124.7	9978.8	9832.8	9741.6	9674.8
32.5°	10343.6	10185.6	10009.3	9838.9	9687.0	9528.8	9382.9	9255.2	9151.8	9090.9	9042.3
35°	9212.6	9054.5	8920.7	8799.2	8671.3	8604.5	8513.3	8440.3	8397.7	8373.5	8367.4
37.5°	7789.6	7698.4	7655.9	7631.6	7607.2	7589.0	7601.1	7631.6	7655.9	7698.4	7747.1
40°	6269.4	6348.4	6372.8	6457.9	6537.0	6640.4	6756.0	6889.7	6999.1	7139.0	7236.3
42.5°	4883.0	5029.0	5199.2	5381.6	5576.2	5764.7	5995.8	6208.6	6403.2	6579.5	6731.6
45°	3751.9	3976.9	4232.3	4493.8	4755.3	5029.0	5308.7	5570.1	5801.2	5989.7	6147.9
47.5°	2924.9	3174.3	3502.7	3824.9	4141.1	4463.4	4773.5	5047.1	5241.7	5424.1	5564.0
50°	2316.8	2602.6	2961.4	3332.3	3679.0	4019.4	4347.8	4603.3	4797.9	4943.8	5047.1
52.5°	1793.8	2134.4	2499.2	2888.5	3259.4	3630.3	3934.3	4171.5	4329.6	4457.3	4536.3
55°	1337.8	1672.3	2061.5	2462.8	2839.8	3198.5	3484.4	3691.2	3831.0	3904.0	3946.5
57.5°	966.8	1271.0	1660.1	2061.5	2401.9	2742.5	2973.6	3162.1	3241.1	3283.7	3302.0
60°	705.4	985.1	1331.7	1678.4	2000.6	2274.3	2475.0	2602.6	2663.5	2687.7	2681.6
62.5°	516.9	760.2	1058.0	1350.0	1611.4	1836.4	1994.5	2079.6	2110.1	2122.2	2104.0
65°	395.2	583.7	839.2	1064.1	1264.9	1429.0	1544.6	1599.3	1617.5	1611.4	1599.3
67.5°	291.9	437.9	626.4	796.6	942.6	1070.2	1131.1	1179.8	1191.8	1173.7	1155.4
70°	206.8	322.3	456.0	571.6	681.0	754.1	820.9	827.0	827.0	820.9	808.8
72.5°	146.0	225.0	310.1	389.2	456.0	510.8	535.1	553.4	547.3	541.2	529.1
75°	97.3	139.9	225.0	243.3	304.0	322.3	346.7	346.7	352.6	334.5	334.5
77.5°	60.9	97.3	133.8	158.2	182.4	206.8	218.9	218.9	225.0	218.9	218.9
80°	36.5	60.9	72.9	109.5	109.5	127.7	133.8	139.9	127.7	146.0	127.7
82.5°	24.3	36.5	54.8	54.8	67.0	79.0	79.0	85.1	85.1	79.0	79.0
85°	18.3	24.3	30.4	36.5	36.5	42.6	36.5	36.5	42.6	48.7	42.6
87.5°	6.1	12.2	6.1	12.2	12.2	24.3	18.3	18.3	18.3	24.3	24.3
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: P248460

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11456.4	11456.4	11456.4	11456.4
2.5°	11468.6	11474.7	11468.6	11468.6
5°	11523.4	11517.3	11523.4	11511.2
7.5°	11565.9	11565.9	11559.8	11559.8
10°	11565.9	11541.7	11541.7	11541.7
12.5°	11474.7	11444.3	11426.0	11413.8
15°	11316.5	11261.9	11237.5	11231.4
17.5°	11109.9	11061.2	11030.9	11012.6
20°	10872.7	10824.0	10787.6	10793.7
22.5°	10665.9	10611.3	10586.9	10574.7
25°	10459.2	10392.3	10374.1	10361.9
27.5°	10124.7	10088.3	10070.0	10051.8
30°	9613.9	9595.6	9565.3	9607.8
32.5°	9024.1	8993.6	8969.4	8987.7
35°	8373.5	8355.2	8373.5	8361.3
37.5°	7777.6	7795.7	7820.1	7832.2
40°	7309.3	7376.1	7400.5	7412.6
42.5°	6841.1	6920.1	6968.7	6999.1
45°	6263.3	6342.3	6397.1	6433.7
47.5°	5667.4	5734.4	5789.0	5783.0
50°	5126.3	5162.7	5187.0	5211.4
52.5°	4578.9	4578.9	4585.0	4585.0
55°	3958.7	3946.5	3940.4	3946.5
57.5°	3277.6	3265.5	3259.4	3241.1
60°	2657.4	2620.9	2596.5	2596.5
62.5°	2079.6	2037.1	2018.9	2012.8
65°	1562.7	1556.6	1520.2	1514.1
67.5°	1131.1	1106.7	1082.4	1088.5
70°	796.6	760.2	760.2	748.0
72.5°	516.9	498.6	492.5	492.5
75°	322.3	322.3	310.1	334.5
77.5°	212.8	212.8	206.8	212.8
80°	127.7	127.7	127.7	121.6
82.5°	79.0	85.1	79.0	79.0
85°	42.6	48.7	36.5	54.8
87.5°	24.3	30.4	24.3	30.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)