

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: P248531

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248531  
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: LD8B175D010 ER8B1759727 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13045.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

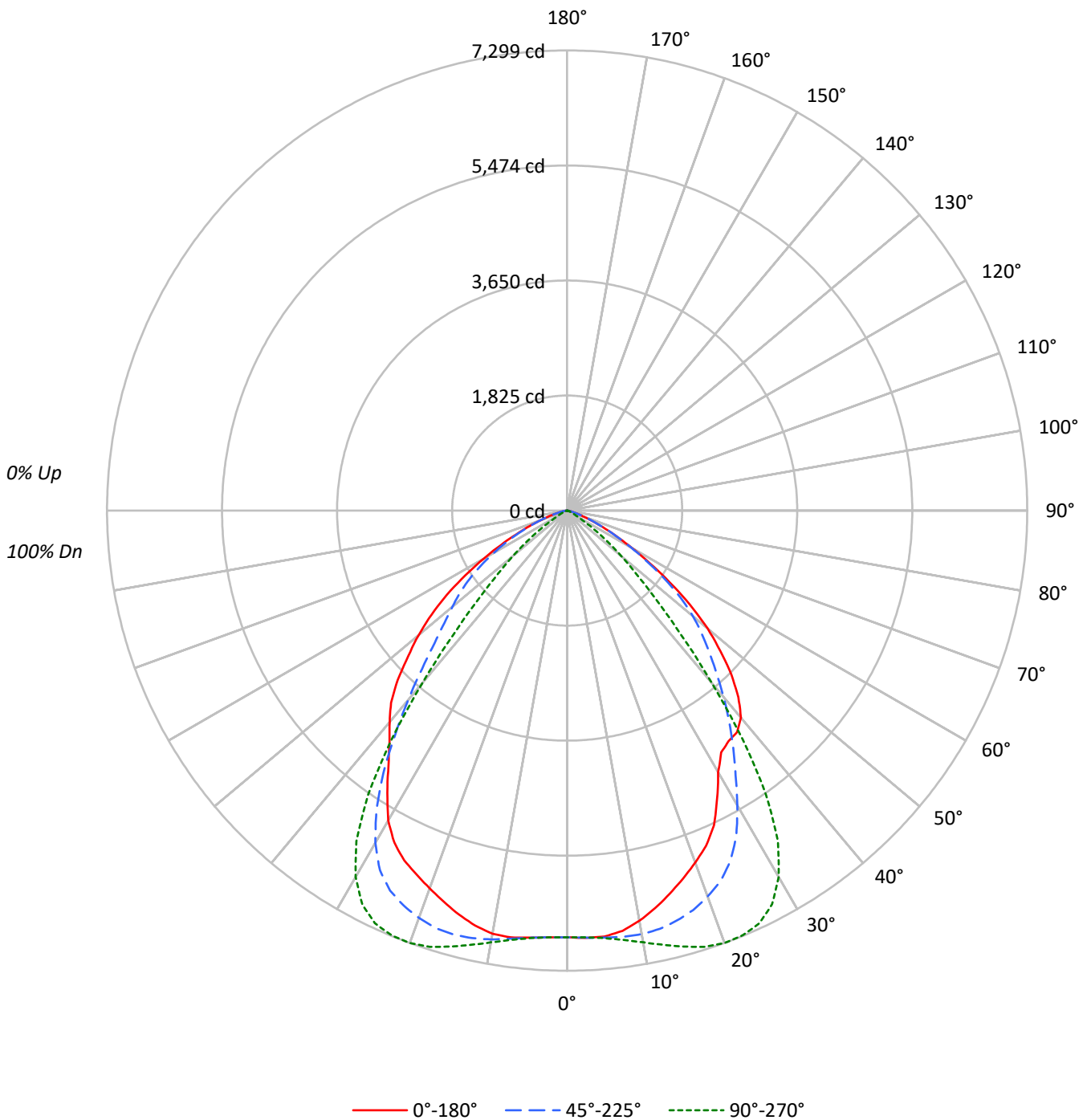
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	650.8	5.0
10°-20°	1927.9	14.8
20°-30°	2941.2	22.5
30°-40°	3069.2	23.5
40°-50°	2305.4	17.7
50°-60°	1418.4	10.9
60°-70°	577.3	4.4
70°-80°	136.0	1.0
80°-90°	18.7	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°	5519.9	42.3
0°-40°	8589.2	65.8
0°-60°	12313.0	94.4
0°-90°	13045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6767	6767	6767	6767	6767	
5°	6782	6800	6807	6800	6800	642
15°	6290	6731	7159	6961	6634	1772
25°	5510	6128	7220	6649	6121	2505
35°	4465	4591	5499	5083	4939	2819
45°	3685	3190	1990	2971	3800	2812
55°	1990	1889	521	1889	2331	1789
65°	621	629	79	844	894	648
75°	108	108	14	190	198	130
85°	11	11	4	25	32	15
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°	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3
2.5°	6785.3	6774.5	6785.3	6785.3	6788.9	6781.7	6785.3	6788.9	6781.7	6781.7	6781.7
5°	6781.7	6774.5	6781.7	6778.1	6785.3	6785.3	6792.5	6792.5	6799.6	6799.6	6810.4
7.5°	6724.2	6709.9	6724.2	6735.0	6742.1	6756.6	6774.5	6788.9	6803.2	6817.6	6835.6
10°	6605.7	6605.7	6616.5	6638.0	6659.5	6684.7	6717.0	6753.0	6788.9	6821.2	6853.5
12.5°	6458.4	6447.6	6469.2	6497.9	6530.2	6569.8	6620.1	6673.9	6731.4	6796.0	6846.4
15°	6289.6	6278.8	6303.9	6332.7	6372.2	6429.7	6490.8	6562.6	6645.2	6731.4	6814.0
17.5°	6117.2	6113.6	6138.7	6178.2	6210.6	6271.6	6350.7	6436.8	6530.2	6645.2	6753.0
20°	5941.2	5937.6	5962.7	5995.1	6038.1	6095.6	6174.6	6275.2	6386.5	6515.9	6641.6
22.5°	5758.0	5761.6	5783.1	5819.0	5855.0	5916.0	5998.6	6099.2	6221.3	6361.4	6501.5
25°	5510.1	5492.2	5520.9	5556.9	5617.9	5668.1	5747.2	5855.0	5980.7	6128.0	6293.2
27.5°	5150.9	5147.3	5172.5	5204.8	5258.7	5319.7	5406.0	5517.3	5650.2	5811.8	5973.5
30°	4791.7	4798.9	4809.7	4842.0	4877.9	4939.0	5025.2	5118.6	5244.3	5398.7	5571.2
32.5°	4547.4	4547.4	4561.9	4583.4	4608.5	4640.9	4702.0	4770.2	4867.2	4974.9	5100.6
35°	4464.8	4450.5	4464.8	4468.4	4472.0	4479.2	4490.0	4511.6	4543.8	4590.6	4637.3
37.5°	4429.0	4418.2	4418.2	4403.8	4385.8	4364.3	4335.5	4303.2	4267.3	4220.6	4184.7
40°	4288.9	4281.7	4274.5	4260.1	4220.6	4177.5	4130.8	4055.3	3972.7	3857.8	3742.9
42.5°	4019.5	4012.3	4008.7	3979.9	3944.0	3893.7	3839.8	3760.8	3656.7	3509.4	3344.1
45°	3685.4	3671.0	3660.3	3635.1	3609.9	3566.8	3516.6	3444.7	3340.5	3189.7	2992.1
47.5°	3297.5	3290.3	3286.7	3275.9	3250.8	3225.6	3193.3	3135.8	3042.4	2898.7	2694.0
50°	2905.9	2891.6	2898.7	2895.2	2884.4	2866.5	2844.8	2805.4	2733.5	2604.2	2417.4
52.5°	2456.9	2456.9	2453.4	2464.1	2467.7	2464.1	2467.7	2424.6	2363.5	2266.5	2108.5
55°	1989.9	1989.9	2000.7	2015.1	2029.5	2033.1	2029.5	2011.5	1968.4	1889.4	1749.3
57.5°	1551.7	1544.6	1566.1	1587.6	1602.1	1616.4	1605.6	1591.3	1566.1	1501.4	1393.7
60°	1181.8	1181.8	1196.1	1210.5	1224.8	1239.3	1235.6	1232.0	1210.5	1167.4	1081.2
62.5°	869.2	872.8	872.8	883.6	898.0	912.4	923.1	912.4	901.6	872.8	815.4
65°	621.4	617.8	621.4	632.2	643.0	657.3	664.5	660.9	650.1	628.6	585.5
67.5°	416.7	413.1	427.4	431.0	438.2	452.6	449.0	452.6	449.0	431.0	395.2
70°	273.0	265.8	273.0	269.4	280.2	283.8	290.9	294.5	290.9	280.2	269.4
72.5°	168.8	165.2	168.8	172.4	176.0	179.6	186.8	186.8	183.2	176.0	161.6
75°	107.8	96.9	100.5	93.4	100.5	100.5	107.8	111.4	107.8	107.8	100.5
77.5°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	68.3	71.8	64.7	61.1
80°	32.3	32.3	35.9	35.9	35.9	39.5	35.9	35.9	35.9	39.5	28.7
82.5°	25.1	21.5	21.5	21.5	25.1	21.5	21.5	21.5	21.5	21.5	21.5
85°	10.8	14.3	10.8	7.2	10.8	10.8	14.3	10.8	10.8	10.8	14.3
87.5°	3.6	3.6	0.0	0.0	0.0	3.6	0.0	3.6	3.6	7.2	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3
2.5°	6785.3	6778.1	6778.1	6774.5	6781.7	6774.5	6778.1	6774.5	6774.5	6781.7	6774.5
5°	6810.4	6814.0	6806.8	6803.2	6814.0	6814.0	6814.0	6806.8	6806.8	6810.4	6806.8
7.5°	6846.4	6853.5	6857.1	6860.7	6867.9	6871.5	6871.5	6867.9	6864.3	6875.1	6860.7
10°	6885.8	6896.7	6918.2	6929.0	6946.9	6946.9	6954.1	6954.1	6946.9	6954.1	6950.5
12.5°	6871.5	6936.1	6972.1	6997.2	7022.3	7043.9	7051.1	7054.7	7051.1	7065.5	7051.1
15°	6896.7	6950.5	7008.0	7051.1	7097.8	7122.9	7130.1	7158.8	7166.0	7169.6	7148.1
17.5°	6857.1	6954.1	7015.1	7079.8	7148.1	7194.8	7237.9	7255.9	7259.5	7266.6	7237.9
20°	6767.3	6875.1	6968.5	7061.9	7140.9	7212.7	7248.7	7298.9	7284.6	7313.3	7273.8
22.5°	6645.2	6767.3	6885.8	7008.0	7090.6	7176.9	7252.3	7288.1	7306.1	7306.1	7263.0
25°	6451.2	6594.9	6724.2	6849.9	6975.7	7079.8	7166.0	7219.9	7230.7	7227.1	7176.9
27.5°	6149.5	6303.9	6454.8	6598.5	6753.0	6875.1	6975.7	7040.3	7058.3	7058.3	7004.4
30°	5732.8	5898.1	6045.4	6217.7	6375.8	6512.3	6652.4	6709.9	6742.1	6742.1	6681.2
32.5°	5237.1	5377.2	5513.7	5682.5	5855.0	6009.4	6142.3	6221.3	6260.9	6257.3	6203.4
35°	4698.3	4766.6	4870.8	4996.5	5150.9	5294.6	5423.9	5499.4	5567.6	5564.0	5513.7
37.5°	4159.5	4141.6	4152.4	4199.0	4296.0	4396.6	4497.2	4569.1	4626.5	4651.7	4640.9
40°	3631.5	3538.1	3448.3	3416.0	3423.2	3459.1	3513.0	3566.8	3631.5	3663.9	3678.2
42.5°	3157.4	2999.3	2841.2	2722.8	2654.5	2632.9	2658.1	2676.0	2715.5	2762.2	2809.0
45°	2776.6	2564.7	2356.3	2173.2	2058.2	1989.9	1975.6	1989.9	2011.5	2058.2	2119.3
47.5°	2464.1	2216.2	1982.8	1778.0	1609.2	1519.4	1494.3	1487.1	1508.6	1551.7	1634.3
50°	2187.5	1939.7	1681.1	1444.0	1268.0	1167.4	1131.5	1117.1	1142.2	1174.6	1250.0
52.5°	1885.8	1641.5	1375.7	1145.8	962.7	858.5	819.0	797.4	811.8	854.9	930.3
55°	1558.9	1332.6	1091.9	854.9	678.9	581.9	535.2	520.8	535.2	581.9	657.3
57.5°	1232.0	1041.7	840.5	617.8	459.8	362.8	316.1	301.7	341.3	359.2	438.2
60°	962.7	808.2	635.8	452.6	316.1	240.6	194.0	183.2	201.2	233.4	298.1
62.5°	722.0	625.0	488.5	323.3	233.4	154.4	129.3	118.6	129.3	154.4	204.8
65°	524.4	449.0	341.3	237.0	158.0	115.0	86.2	79.0	89.8	107.8	150.9
67.5°	359.2	301.7	237.0	165.2	107.8	71.8	61.1	61.1	64.7	79.0	111.4
70°	233.4	197.6	150.9	107.8	71.8	53.9	46.7	39.5	46.7	57.5	75.4
72.5°	147.3	125.7	96.9	75.4	53.9	39.5	32.3	28.7	35.9	43.1	57.5
75°	89.8	68.3	50.3	39.5	28.7	28.7	28.7	14.3	17.9	28.7	35.9
77.5°	53.9	46.7	39.5	32.3	25.1	14.3	14.3	14.3	17.9	21.5	32.3
80°	28.7	25.1	17.9	17.9	14.3	10.8	14.3	10.8	7.2	17.9	21.5
82.5°	17.9	14.3	14.3	14.3	17.9	7.2	10.8	7.2	10.8	14.3	10.8
85°	10.8	10.8	10.8	7.2	17.9	7.2	7.2	3.6	3.6	7.2	7.2
87.5°	0.0	3.6	3.6	0.0	3.6	0.0	3.6	3.6	3.6	3.6	3.6
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°	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3
2.5°	6778.1	6774.5	6778.1	6774.5	6774.5	6774.5	6778.1	6778.1	6774.5	6774.5	6781.7
5°	6806.8	6806.8	6806.8	6803.2	6799.6	6799.6	6806.8	6806.8	6796.0	6806.8	6806.8
7.5°	6867.9	6857.1	6867.9	6853.5	6846.4	6849.9	6853.5	6846.4	6839.2	6842.8	6842.8
10°	6946.9	6936.1	6936.1	6925.4	6914.6	6907.4	6900.3	6882.2	6864.3	6860.7	6846.4
12.5°	7040.3	7022.3	7011.6	6990.0	6972.1	6946.9	6925.4	6896.7	6860.7	6835.6	6810.4
15°	7133.7	7105.0	7079.8	7043.9	7004.4	6961.3	6914.6	6867.9	6810.4	6760.2	6717.0
17.5°	7209.1	7169.6	7122.9	7065.5	7008.0	6943.3	6875.1	6806.8	6724.2	6659.5	6609.3
20°	7234.2	7176.9	7115.8	7040.3	6964.9	6875.1	6788.9	6699.1	6605.7	6537.5	6480.0
22.5°	7202.0	7133.7	7058.3	6979.3	6878.6	6781.7	6681.2	6576.9	6494.3	6401.0	6347.1
25°	7112.2	7029.5	6946.9	6853.5	6756.6	6648.8	6541.1	6433.3	6332.7	6282.4	6214.2
27.5°	6929.0	6839.2	6749.4	6652.4	6541.1	6433.3	6321.9	6217.7	6131.6	6063.3	6023.8
30°	6605.7	6501.5	6397.4	6293.2	6196.2	6084.8	5980.7	5894.4	5808.2	5754.4	5714.9
32.5°	6110.0	6016.6	5912.5	5811.8	5722.1	5628.7	5542.4	5467.0	5406.0	5370.0	5341.3
35°	5441.9	5348.5	5269.5	5197.7	5122.2	5082.7	5028.8	4985.7	4960.5	4946.2	4942.6
37.5°	4601.3	4547.4	4522.3	4508.0	4493.6	4482.8	4490.0	4508.0	4522.3	4547.4	4576.2
40°	3703.3	3750.0	3764.4	3814.7	3861.4	3922.5	3990.7	4069.8	4134.4	4217.0	4274.5
42.5°	2884.4	2970.6	3071.1	3178.9	3293.9	3405.2	3541.7	3667.4	3782.4	3886.5	3976.3
45°	2216.2	2349.1	2500.0	2654.5	2809.0	2970.6	3135.8	3290.3	3426.8	3538.1	3631.5
47.5°	1727.7	1875.0	2069.0	2259.4	2446.2	2636.5	2819.7	2981.3	3096.3	3204.0	3286.7
50°	1368.5	1537.4	1749.3	1968.4	2173.2	2374.3	2568.2	2719.1	2834.1	2920.3	2981.3
52.5°	1059.6	1260.8	1476.3	1706.2	1925.3	2144.4	2324.0	2464.1	2557.5	2632.9	2679.6
55°	790.2	987.8	1217.7	1454.8	1677.5	1889.4	2058.2	2180.4	2263.0	2306.1	2331.2
57.5°	571.1	750.8	980.6	1217.7	1418.8	1620.0	1756.5	1867.8	1914.5	1939.7	1950.5
60°	416.7	581.9	786.6	991.4	1181.8	1343.4	1462.0	1537.4	1573.3	1587.6	1584.0
62.5°	305.3	449.0	625.0	797.4	951.9	1084.7	1178.2	1228.4	1246.5	1253.6	1242.9
65°	233.4	344.8	495.7	628.6	747.2	844.1	912.4	944.7	955.5	951.9	944.7
67.5°	172.4	258.7	370.0	470.6	556.8	632.2	668.1	696.9	704.0	693.3	682.5
70°	122.2	190.4	269.4	337.7	402.3	445.4	484.9	488.5	488.5	484.9	477.8
72.5°	86.2	132.9	183.2	229.9	269.4	301.7	316.1	326.9	323.3	319.7	312.5
75°	57.5	82.6	132.9	143.7	179.6	190.4	204.8	204.8	208.3	197.6	197.6
77.5°	35.9	57.5	79.0	93.4	107.8	122.2	129.3	129.3	132.9	129.3	129.3
80°	21.5	35.9	43.1	64.7	64.7	75.4	79.0	82.6	75.4	86.2	75.4
82.5°	14.3	21.5	32.3	32.3	39.5	46.7	46.7	50.3	50.3	46.7	46.7
85°	10.8	14.3	17.9	21.5	21.5	25.1	21.5	21.5	25.1	28.7	25.1
87.5°	3.6	7.2	3.6	7.2	7.2	14.3	10.8	10.8	10.8	14.3	14.3
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: P248531

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6767.3	6767.3	6767.3	6767.3
2.5°	6774.5	6778.1	6774.5	6774.5
5°	6806.8	6803.2	6806.8	6799.6
7.5°	6832.0	6832.0	6828.4	6828.4
10°	6832.0	6817.6	6817.6	6817.6
12.5°	6778.1	6760.2	6749.4	6742.1
15°	6684.7	6652.4	6638.0	6634.4
17.5°	6562.6	6533.8	6515.9	6505.1
20°	6422.5	6393.8	6372.2	6375.8
22.5°	6300.3	6268.1	6253.7	6246.4
25°	6178.2	6138.7	6128.0	6120.8
27.5°	5980.7	5959.1	5948.3	5937.6
30°	5678.9	5668.1	5650.2	5675.3
32.5°	5330.5	5312.5	5298.2	5309.0
35°	4946.2	4935.4	4946.2	4939.0
37.5°	4594.2	4604.9	4619.3	4626.5
40°	4317.6	4357.1	4371.5	4378.6
42.5°	4041.0	4087.7	4116.4	4134.4
45°	3699.7	3746.4	3778.8	3800.4
47.5°	3347.7	3387.3	3419.5	3416.0
50°	3028.1	3049.6	3063.9	3078.4
52.5°	2704.7	2704.7	2708.3	2708.3
55°	2338.4	2331.2	2327.6	2331.2
57.5°	1936.0	1928.9	1925.3	1914.5
60°	1569.7	1548.2	1533.8	1533.8
62.5°	1228.4	1203.3	1192.6	1189.0
65°	923.1	919.5	898.0	894.4
67.5°	668.1	653.7	639.4	643.0
70°	470.6	449.0	449.0	441.8
72.5°	305.3	294.5	290.9	290.9
75°	190.4	190.4	183.2	197.6
77.5°	125.7	125.7	122.2	125.7
80°	75.4	75.4	75.4	71.8
82.5°	46.7	50.3	46.7	46.7
85°	25.1	28.7	21.5	32.3
87.5°	14.3	17.9	14.3	17.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)