

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: P249504

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249504  
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 ER8B2009727 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13502.0 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

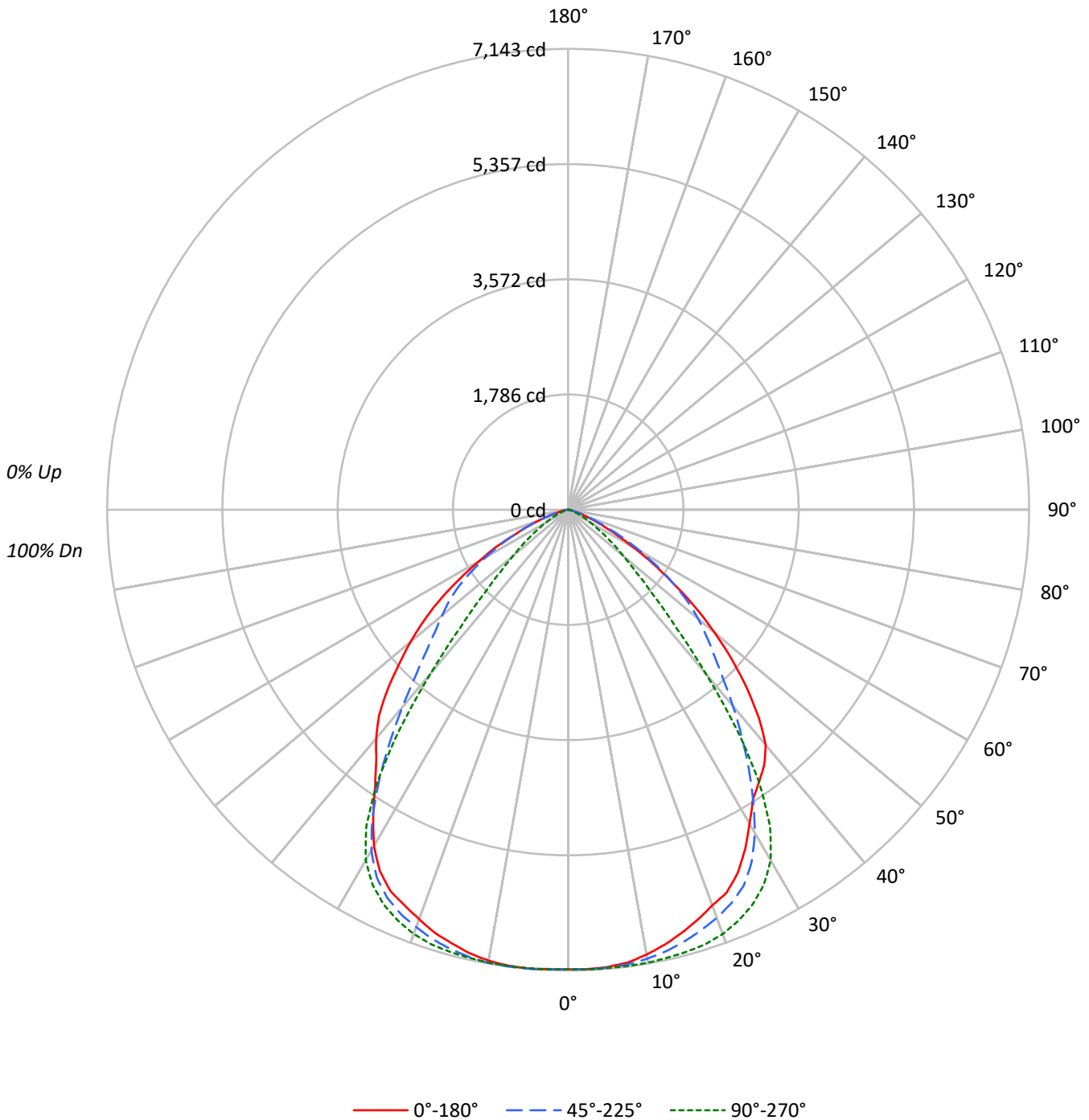
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	679.9	5.0
10°-20°	1974.5	14.6
20°-30°	2996.9	22.2
30°-40°	3147.6	23.3
40°-50°	2359.9	17.5
50°-60°	1514.1	11.2
60°-70°	647.7	4.8
70°-80°	153.0	1.1
80°-90°	28.5	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°	5651.2	41.9
0°-40°	8798.8	65.2
0°-60°	12672.8	93.9
0°-90°	13502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13502.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7124	7124	7124	7124	7124	
5°	7112	7124	7132	7143	7139	676
15°	6791	6933	7093	7048	6960	1915
25°	6214	6432	6757	6634	6520	2839
35°	5155	4868	5158	5097	5212	3235
45°	3916	3201	1839	3109	3969	2999
55°	1981	1981	684	2065	2413	1797
65°	597	704	218	906	922	637
75°	92	107	31	184	180	134
85°	31	19	15	31	42	32
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°	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9
2.5°	7127.8	7135.4	7131.6	7131.6	7127.8	7131.6	7131.6	7139.3	7139.3	7131.6	7127.8
5°	7112.4	7120.1	7120.1	7112.4	7112.4	7131.6	7120.1	7127.8	7127.8	7123.9	7123.9
7.5°	7078.1	7078.1	7093.3	7081.9	7081.9	7093.3	7089.5	7097.2	7104.8	7108.7	7108.7
10°	7001.5	7009.2	7013.0	7013.0	7016.9	7028.3	7036.0	7051.3	7058.9	7066.6	7070.4
12.5°	6906.0	6917.4	6921.3	6917.4	6928.9	6944.2	6963.4	6982.5	6994.0	7009.2	7020.7
15°	6791.2	6791.2	6798.9	6810.4	6818.1	6841.0	6860.1	6883.0	6913.6	6932.8	6951.9
17.5°	6665.1	6672.7	6684.2	6684.2	6699.5	6737.7	6749.2	6783.6	6818.1	6837.1	6875.4
20°	6527.4	6535.0	6546.5	6554.2	6573.3	6603.9	6626.8	6657.4	6695.7	6730.1	6768.3
22.5°	6420.3	6405.1	6412.6	6420.3	6439.5	6466.3	6493.0	6531.2	6569.5	6603.9	6642.2
25°	6213.8	6217.7	6229.2	6236.7	6259.8	6282.7	6313.3	6359.1	6393.6	6431.8	6473.8
27.5°	5934.7	5938.5	5957.6	5957.6	5976.7	6015.0	6034.1	6072.3	6118.3	6156.5	6206.2
30°	5617.3	5624.9	5624.9	5640.3	5651.7	5670.9	5689.9	5728.2	5751.1	5785.6	5854.4
32.5°	5326.7	5334.3	5330.5	5326.7	5315.2	5311.4	5307.6	5315.2	5322.9	5334.3	5361.1
35°	5154.7	5135.5	5120.2	5093.5	5062.9	5024.6	4990.2	4944.3	4902.2	4867.8	4829.6
37.5°	4990.2	4986.3	4963.4	4925.2	4864.0	4795.2	4714.9	4615.5	4516.0	4409.0	4305.8
40°	4760.8	4749.3	4730.2	4676.6	4607.8	4523.7	4416.6	4294.2	4133.6	3969.2	3801.0
42.5°	4370.7	4374.5	4351.6	4309.5	4244.6	4164.2	4053.3	3919.5	3747.5	3552.4	3334.5
45°	3915.7	3915.7	3908.0	3873.6	3827.7	3762.7	3678.6	3567.7	3399.5	3200.6	2967.3
47.5°	3441.5	3445.3	3433.8	3426.2	3407.1	3365.1	3303.9	3219.7	3101.2	2910.0	2676.7
50°	2959.7	2959.7	2978.8	2975.0	2975.0	2959.7	2933.0	2883.2	2780.0	2627.0	2409.1
52.5°	2477.9	2485.5	2497.1	2512.3	2531.4	2562.0	2531.4	2508.5	2443.4	2324.9	2137.6
55°	1980.8	1988.4	2007.5	2034.3	2057.3	2087.9	2095.5	2095.5	2061.0	1980.8	1839.3
57.5°	1556.4	1544.8	1560.2	1583.1	1613.7	1644.3	1667.2	1694.0	1690.2	1636.6	1521.9
60°	1170.1	1174.0	1185.4	1208.4	1231.3	1258.1	1288.7	1311.6	1323.1	1296.3	1223.6
62.5°	852.7	852.7	868.0	890.9	902.4	940.7	959.8	971.3	982.7	978.9	933.0
65°	596.6	604.1	611.8	623.3	634.7	657.7	669.2	692.1	699.8	703.6	669.2
67.5°	420.7	409.2	416.8	424.4	435.9	451.3	474.2	474.2	485.6	485.6	462.7
70°	267.7	267.7	271.5	282.9	290.6	294.4	302.1	309.7	321.2	317.4	317.4
72.5°	179.7	175.9	179.7	183.6	187.4	198.8	198.8	202.7	210.3	214.2	198.8
75°	91.8	95.6	103.2	99.5	110.9	103.2	107.0	118.5	114.7	107.0	107.0
77.5°	76.4	76.4	76.4	72.7	80.3	80.3	76.4	84.1	80.3	80.3	76.4
80°	53.5	57.4	53.5	49.7	53.5	49.7	49.7	49.7	49.7	49.7	45.8
82.5°	42.1	34.4	38.3	34.4	38.3	38.3	34.4	30.6	30.6	34.4	30.6
85°	30.6	22.9	26.8	26.8	22.9	22.9	22.9	22.9	22.9	19.1	19.1
87.5°	19.1	11.5	11.5	11.5	15.3	15.3	15.3	11.5	15.3	15.3	7.7
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°	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9
2.5°	7135.4	7131.6	7139.3	7135.4	7135.4	7131.6	7135.4	7131.6	7139.3	7123.9	7127.8
5°	7135.4	7127.8	7131.6	7135.4	7139.3	7131.6	7131.6	7131.6	7139.3	7131.6	7135.4
7.5°	7120.1	7116.2	7127.8	7135.4	7131.6	7127.8	7135.4	7131.6	7139.3	7135.4	7143.0
10°	7089.5	7093.3	7101.0	7112.4	7116.2	7120.1	7127.8	7127.8	7139.3	7123.9	7131.6
12.5°	7043.6	7058.9	7078.1	7085.7	7101.0	7101.0	7108.7	7112.4	7120.1	7116.2	7127.8
15°	6986.3	7005.4	7028.3	7047.5	7066.6	7078.1	7089.5	7093.3	7104.8	7093.3	7097.2
17.5°	6917.4	6940.3	6974.8	6997.7	7028.3	7039.8	7055.1	7062.7	7074.2	7066.6	7070.4
20°	6821.8	6848.7	6886.8	6921.3	6940.3	6967.1	6986.3	6997.7	7005.4	6997.7	7001.5
22.5°	6688.0	6726.3	6776.0	6802.7	6841.0	6863.9	6867.7	6894.5	6913.6	6894.5	6902.2
25°	6531.2	6569.5	6607.7	6665.1	6699.5	6726.3	6753.0	6756.9	6776.0	6772.1	6768.3
27.5°	6271.2	6320.9	6385.9	6431.8	6477.7	6519.8	6550.4	6557.9	6577.1	6569.5	6573.3
30°	5915.5	5969.1	6030.3	6102.9	6168.0	6210.0	6248.2	6275.0	6294.1	6282.7	6278.8
32.5°	5410.8	5464.4	5529.4	5602.0	5678.5	5739.6	5785.6	5820.0	5842.9	5835.3	5816.2
35°	4833.5	4848.7	4890.8	4948.2	5013.1	5078.1	5120.2	5158.4	5185.2	5192.8	5192.8
37.5°	4240.7	4191.0	4160.4	4160.4	4198.6	4225.4	4263.6	4286.6	4328.7	4343.9	4355.4
40°	3667.1	3552.4	3445.3	3365.1	3311.5	3307.7	3307.7	3319.1	3357.4	3407.1	3453.0
42.5°	3154.7	2971.1	2806.8	2657.6	2550.6	2489.4	2462.6	2466.5	2497.1	2542.9	2619.3
45°	2745.6	2516.1	2309.6	2129.9	1984.6	1889.0	1843.1	1839.3	1862.2	1915.7	1999.9
47.5°	2428.2	2183.4	1950.2	1743.7	1586.9	1483.7	1430.1	1414.9	1430.1	1479.8	1579.3
50°	2164.3	1912.0	1671.1	1456.9	1288.7	1181.6	1131.9	1112.8	1131.9	1174.0	1273.3
52.5°	1919.6	1659.6	1434.0	1227.5	1047.7	956.0	902.4	890.9	902.4	952.1	1032.5
55°	1636.6	1414.9	1193.0	986.5	829.8	738.0	695.9	684.5	695.9	741.9	826.0
57.5°	1357.5	1166.3	971.3	783.9	650.1	569.7	531.5	516.2	543.0	573.6	673.0
60°	1097.4	944.5	780.0	615.7	504.8	432.1	401.5	397.7	405.3	443.6	512.4
62.5°	860.4	734.2	604.1	470.3	378.6	348.0	309.7	306.0	313.5	336.5	390.1
65°	619.5	539.2	439.8	344.1	271.5	229.4	214.2	218.0	225.6	240.9	290.6
67.5°	432.1	374.7	306.0	240.9	187.4	168.2	153.0	149.1	153.0	179.7	206.5
70°	290.6	256.2	206.5	183.6	130.1	103.2	107.0	95.6	110.9	110.9	133.8
72.5°	191.2	168.2	137.6	107.0	91.8	72.7	72.7	68.9	76.4	80.3	99.5
75°	99.5	76.4	76.4	53.5	38.3	19.1	34.4	30.6	26.8	30.6	38.3
77.5°	68.9	57.4	53.5	42.1	38.3	30.6	30.6	30.6	30.6	34.4	38.3
80°	42.1	42.1	30.6	26.8	22.9	19.1	22.9	22.9	22.9	22.9	26.8
82.5°	26.8	22.9	22.9	19.1	19.1	15.3	15.3	15.3	15.3	15.3	22.9
85°	22.9	15.3	15.3	11.5	15.3	26.8	11.5	15.3	15.3	15.3	11.5
87.5°	7.7	11.5	11.5	11.5	7.7	3.8	7.7	11.5	11.5	19.1	15.3
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°	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9	7123.9
2.5°	7135.4	7139.3	7139.3	7135.4	7135.4	7127.8	7143.0	7131.6	7135.4	7150.7	7139.3
5°	7143.0	7146.8	7146.8	7143.0	7143.0	7143.0	7146.8	7146.8	7143.0	7139.3	7146.8
7.5°	7158.4	7154.5	7154.5	7146.8	7146.8	7139.3	7146.8	7135.4	7143.0	7135.4	7146.8
10°	7139.3	7143.0	7139.3	7135.4	7135.4	7131.6	7131.6	7120.1	7123.9	7112.4	7120.1
12.5°	7127.8	7123.9	7123.9	7116.2	7108.7	7101.0	7097.2	7085.7	7085.7	7058.9	7070.4
15°	7097.2	7101.0	7089.5	7074.2	7066.6	7047.5	7039.8	7024.5	7009.2	6990.1	6994.0
17.5°	7070.4	7058.9	7043.6	7028.3	6997.7	6982.5	6967.1	6944.2	6936.5	6913.6	6906.0
20°	6990.1	6982.5	6963.4	6936.5	6917.4	6883.0	6867.7	6844.8	6825.6	6802.7	6791.2
22.5°	6886.8	6879.2	6856.2	6829.5	6798.9	6783.6	6768.3	6726.3	6707.1	6684.2	6680.3
25°	6756.9	6745.4	6722.4	6691.8	6676.5	6634.5	6619.1	6588.5	6581.0	6557.9	6554.2
27.5°	6557.9	6542.7	6515.9	6477.7	6450.9	6424.2	6408.9	6385.9	6378.3	6355.3	6351.5
30°	6259.8	6240.6	6187.1	6171.8	6125.9	6099.1	6099.1	6068.5	6072.3	6057.1	6057.1
32.5°	5789.4	5758.8	5716.7	5686.1	5655.5	5640.3	5640.3	5628.8	5636.4	5636.4	5644.1
35°	5166.1	5124.1	5101.1	5082.0	5082.0	5097.2	5143.2	5154.7	5177.6	5196.7	5212.0
37.5°	4366.9	4363.1	4389.9	4412.8	4470.1	4535.2	4615.5	4684.3	4749.3	4795.2	4841.0
40°	3502.7	3598.3	3674.8	3781.9	3869.7	3996.0	4141.3	4259.8	4370.7	4451.1	4535.2
42.5°	2734.1	2856.4	3017.1	3173.8	3330.6	3502.7	3693.9	3858.3	4003.6	4114.5	4202.5
45°	2129.9	2298.1	2493.2	2692.0	2894.7	3108.9	3307.7	3475.9	3628.9	3743.6	3831.6
47.5°	1716.9	1900.5	2122.2	2340.2	2569.7	2795.2	3017.1	3162.4	3288.5	3380.3	3460.7
50°	1418.6	1613.7	1847.0	2095.5	2324.9	2550.6	2741.7	2883.2	2986.5	3066.8	3116.5
52.5°	1185.4	1391.9	1640.5	1889.0	2118.4	2324.9	2497.1	2604.1	2688.2	2745.6	2791.4
55°	978.9	1177.8	1411.0	1644.3	1869.9	2064.9	2206.4	2286.7	2351.7	2386.1	2412.8
57.5°	799.2	982.7	1196.9	1411.0	1606.0	1766.7	1877.6	1957.8	1988.4	2015.2	2011.4
60°	627.2	799.2	994.2	1177.8	1346.0	1476.0	1556.4	1602.2	1625.1	1636.6	1629.0
62.5°	493.3	650.1	799.2	959.8	1082.2	1193.0	1269.6	1269.6	1281.0	1284.8	1296.3
65°	367.1	485.6	615.7	734.2	833.6	906.3	948.4	959.8	975.1	971.3	963.6
67.5°	271.5	359.5	455.0	543.0	611.8	657.7	688.3	715.1	711.3	703.6	699.8
70°	187.4	244.8	328.9	382.4	432.1	478.0	485.6	489.4	493.3	497.1	489.4
72.5°	130.1	172.1	218.0	263.9	294.4	313.5	332.7	336.5	336.5	336.5	332.7
75°	65.0	88.0	130.1	149.1	175.9	183.6	198.8	198.8	210.3	195.0	191.2
77.5°	57.4	68.9	91.8	107.0	118.5	130.1	133.8	145.3	141.5	133.8	137.6
80°	34.4	42.1	57.4	65.0	80.3	84.1	88.0	91.8	88.0	91.8	91.8
82.5°	26.8	30.6	38.3	38.3	49.7	49.7	53.5	53.5	57.4	57.4	57.4
85°	15.3	26.8	22.9	45.8	30.6	30.6	38.3	45.8	38.3	38.3	45.8
87.5°	15.3	15.3	11.5	15.3	15.3	15.3	19.1	22.9	22.9	26.8	22.9
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: P249504

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	7123.9	7123.9	7123.9	7123.9
2.5°	7135.4	7143.0	7131.6	7127.8
5°	7146.8	7146.8	7139.3	7139.3
7.5°	7146.8	7146.8	7135.4	7127.8
10°	7116.2	7116.2	7104.8	7097.2
12.5°	7058.9	7058.9	7055.1	7043.6
15°	6986.3	6986.3	6970.9	6959.5
17.5°	6886.8	6894.5	6875.4	6875.4
20°	6779.8	6776.0	6760.7	6753.0
22.5°	6668.9	6661.2	6657.4	6634.5
25°	6550.4	6542.7	6531.2	6519.8
27.5°	6347.7	6343.9	6332.4	6317.1
30°	6037.9	6034.1	6018.8	6018.8
32.5°	5636.4	5632.6	5617.3	5621.2
35°	5219.6	5234.9	5227.3	5212.0
37.5°	4871.6	4883.1	4890.8	4883.1
40°	4581.0	4615.5	4619.3	4627.0
42.5°	4271.3	4317.2	4332.5	4340.1
45°	3900.3	3942.4	3976.9	3969.2
47.5°	3521.8	3552.4	3583.0	3560.0
50°	3158.6	3177.6	3189.2	3189.2
52.5°	2814.4	2814.4	2810.6	2814.4
55°	2420.5	2420.5	2405.3	2412.8
57.5°	2007.5	2015.2	2003.7	1984.6
60°	1625.1	1606.0	1598.4	1586.9
62.5°	1265.7	1265.7	1239.0	1273.3
65°	948.4	936.9	925.4	921.5
67.5°	688.3	684.5	673.0	669.2
70°	485.6	470.3	466.5	458.8
72.5°	325.0	325.0	317.4	317.4
75°	198.8	179.7	175.9	179.7
77.5°	137.6	133.8	133.8	130.1
80°	91.8	88.0	95.6	84.1
82.5°	57.4	61.2	57.4	61.2
85°	38.3	45.8	42.1	42.1
87.5°	22.9	22.9	22.9	22.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)