

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: P249612

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249612  
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 ER8B200927 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16971.8 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

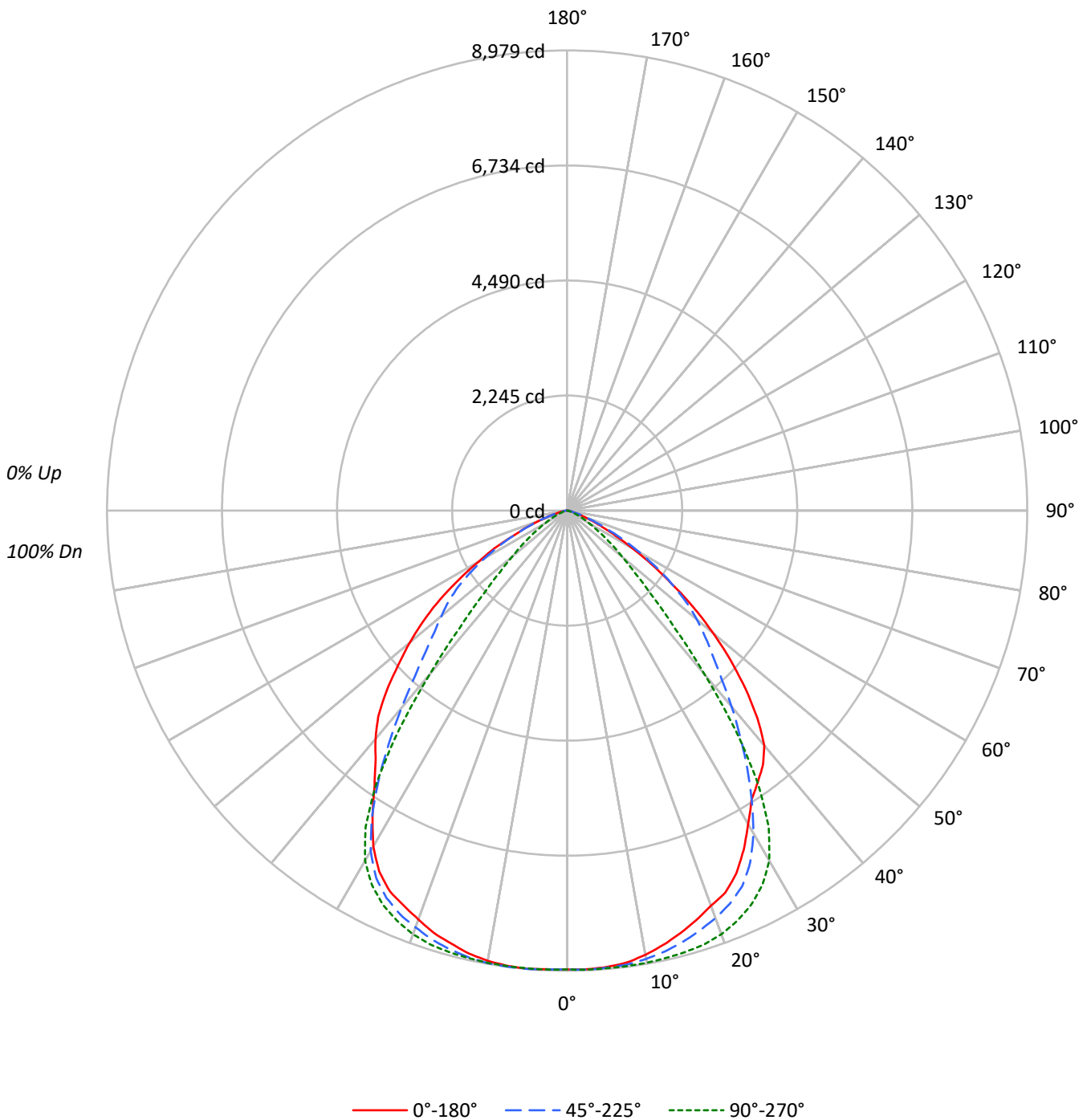
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	854.6	5.0
10°-20°	2481.9	14.6
20°-30°	3767.0	22.2
30°-40°	3956.5	23.3
40°-50°	2966.3	17.5
50°-60°	1903.2	11.2
60°-70°	814.2	4.8
70°-80°	192.4	1.1
80°-90°	35.8	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°	7103.4	41.9
0°-40°	11059.9	65.2
0°-60°	15929.4	93.9
0°-90°	16971.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16971.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8955	8955	8955	8955	8955	
5°	8940	8955	8964	8979	8974	849
15°	8536	8714	8916	8859	8748	2408
25°	7811	8085	8493	8339	8195	3568
35°	6479	6119	6484	6407	6551	4067
45°	4922	4023	2312	3908	4989	3769
55°	2490	2490	860	2596	3033	2258
65°	750	884	274	1139	1158	800
75°	115	134	38	231	226	168
85°	38	24	19	38	53	41
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°	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7
2.5°	8959.5	8969.1	8964.2	8964.2	8959.5	8964.2	8964.2	8973.9	8973.9	8964.2	8959.5
5°	8940.2	8949.8	8949.8	8940.2	8940.2	8964.2	8949.8	8959.5	8959.5	8954.7	8954.7
7.5°	8896.9	8896.9	8916.2	8901.8	8901.8	8916.2	8911.4	8921.0	8930.6	8935.4	8935.4
10°	8800.8	8810.4	8815.3	8815.3	8820.1	8834.4	8844.1	8863.3	8872.9	8882.6	8887.4
12.5°	8680.7	8695.0	8699.8	8695.0	8709.5	8728.6	8752.8	8776.8	8791.3	8810.4	8824.9
15°	8536.4	8536.4	8546.1	8560.6	8570.1	8598.9	8623.0	8651.8	8690.3	8714.4	8738.3
17.5°	8377.9	8387.6	8401.8	8401.8	8421.2	8469.1	8483.6	8526.9	8570.1	8594.2	8642.2
20°	8204.8	8214.4	8228.8	8238.5	8262.4	8300.9	8329.7	8368.2	8416.4	8459.7	8507.6
22.5°	8070.2	8051.1	8060.5	8070.2	8094.3	8127.9	8161.5	8209.6	8257.7	8300.9	8349.1
25°	7810.6	7815.5	7829.9	7839.4	7868.4	7897.2	7935.6	7993.4	8036.6	8084.7	8137.5
27.5°	7459.8	7464.6	7488.7	7488.7	7512.6	7560.7	7584.8	7632.8	7690.6	7738.5	7801.1
30°	7060.8	7070.4	7070.4	7089.8	7104.0	7128.1	7152.2	7200.2	7229.0	7272.3	7359.0
32.5°	6695.6	6705.1	6700.3	6695.6	6681.2	6676.3	6671.5	6681.2	6690.8	6705.1	6738.8
35°	6479.3	6455.2	6436.0	6402.4	6363.9	6315.9	6272.6	6215.0	6162.0	6118.8	6070.7
37.5°	6272.6	6267.7	6238.9	6190.9	6113.9	6027.4	5926.5	5801.5	5676.5	5542.0	5412.3
40°	5984.2	5969.7	5945.7	5878.5	5791.8	5686.2	5551.7	5397.8	5195.8	4989.3	4777.8
42.5°	5493.8	5498.7	5469.9	5417.0	5335.3	5234.3	5094.9	4926.7	4710.5	4465.2	4191.3
45°	4922.0	4922.0	4912.3	4869.0	4811.4	4729.6	4623.9	4484.6	4273.1	4023.0	3729.8
47.5°	4325.8	4330.7	4316.3	4306.7	4282.7	4229.8	4152.9	4047.2	3898.1	3657.7	3364.5
50°	3720.4	3720.4	3744.3	3739.5	3739.5	3720.4	3686.7	3624.1	3494.4	3302.1	3028.2
52.5°	3114.7	3124.2	3138.8	3157.9	3182.0	3220.4	3182.0	3153.2	3071.4	2922.3	2686.8
55°	2489.7	2499.4	2523.4	2557.0	2586.0	2624.4	2634.0	2634.0	2590.6	2489.7	2312.0
57.5°	1956.3	1941.9	1961.1	1989.9	2028.4	2066.8	2095.6	2129.3	2124.5	2057.2	1913.1
60°	1470.8	1475.7	1490.0	1518.9	1547.8	1581.4	1619.8	1648.7	1663.1	1629.4	1538.1
62.5°	1071.9	1071.9	1091.0	1119.8	1134.3	1182.5	1206.4	1220.9	1235.2	1230.4	1172.8
65°	749.9	759.4	769.1	783.6	797.8	826.6	841.2	870.0	879.6	884.5	841.2
67.5°	528.8	514.4	523.9	533.5	548.0	567.2	596.0	596.0	610.4	610.4	581.6
70°	336.5	336.5	341.3	355.6	365.3	370.1	379.8	389.2	403.8	398.9	398.9
72.5°	225.9	221.1	225.9	230.7	235.6	250.0	250.0	254.7	264.4	269.2	250.0
75°	115.4	120.2	129.7	125.0	139.4	129.7	134.5	149.1	144.2	134.5	134.5
77.5°	96.1	96.1	96.1	91.4	100.9	100.9	96.1	105.8	100.9	100.9	96.1
80°	67.3	72.1	67.3	62.4	67.3	62.4	62.4	62.4	62.4	62.4	57.6
82.5°	52.9	43.3	48.2	43.3	48.2	48.2	43.3	38.5	38.5	43.3	38.5
85°	38.5	28.8	33.6	33.6	28.8	28.8	28.8	28.8	28.8	24.0	24.0
87.5°	24.0	14.5	14.5	14.5	19.1	19.1	19.1	14.5	19.1	19.1	9.7
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°	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7
2.5°	8969.1	8964.2	8973.9	8969.1	8969.1	8964.2	8969.1	8964.2	8973.9	8954.7	8959.5
5°	8969.1	8959.5	8964.2	8969.1	8973.9	8964.2	8964.2	8964.2	8973.9	8964.2	8969.1
7.5°	8949.8	8945.0	8959.5	8969.1	8964.2	8959.5	8969.1	8964.2	8973.9	8969.1	8978.6
10°	8911.4	8916.2	8925.9	8940.2	8945.0	8949.8	8959.5	8959.5	8973.9	8954.7	8964.2
12.5°	8853.8	8872.9	8896.9	8906.5	8925.9	8925.9	8935.4	8940.2	8949.8	8945.0	8959.5
15°	8781.6	8805.6	8834.4	8858.6	8882.6	8896.9	8911.4	8916.2	8930.6	8916.2	8921.0
17.5°	8695.0	8723.9	8767.1	8795.9	8834.4	8848.9	8868.0	8877.7	8892.2	8882.6	8887.4
20°	8574.9	8608.6	8656.6	8699.8	8723.9	8757.6	8781.6	8795.9	8805.6	8795.9	8800.8
22.5°	8406.7	8454.8	8517.3	8550.9	8598.9	8627.7	8632.6	8666.2	8690.3	8666.2	8675.9
25°	8209.6	8257.7	8305.8	8377.9	8421.2	8454.8	8488.5	8493.3	8517.3	8512.4	8507.6
27.5°	7882.8	7945.3	8027.0	8084.7	8142.3	8195.2	8233.6	8243.2	8267.3	8257.7	8262.4
30°	7435.7	7503.1	7580.0	7671.3	7753.0	7805.8	7854.0	7887.6	7911.6	7897.2	7892.4
32.5°	6801.3	6868.6	6950.4	7041.6	7137.8	7214.6	7272.3	7315.6	7344.4	7334.8	7310.8
35°	6075.6	6094.7	6147.7	6219.8	6301.3	6383.1	6436.0	6484.0	6517.7	6527.2	6527.2
37.5°	5330.5	5268.0	5229.6	5229.6	5277.6	5311.2	5359.3	5388.2	5441.1	5460.2	5474.7
40°	4609.5	4465.2	4330.7	4229.8	4162.5	4157.7	4157.7	4172.1	4220.2	4282.7	4340.4
42.5°	3965.4	3734.7	3528.0	3340.6	3206.0	3129.1	3095.4	3100.3	3138.8	3196.4	3292.4
45°	3451.2	3162.7	2903.2	2677.3	2494.6	2374.4	2316.8	2312.0	2340.8	2408.1	2513.9
47.5°	3052.2	2744.5	2451.4	2191.7	1994.7	1864.9	1797.6	1778.5	1797.6	1860.1	1985.2
50°	2720.5	2403.3	2100.5	1831.3	1619.8	1485.2	1422.7	1398.7	1422.7	1475.7	1600.5
52.5°	2412.9	2086.0	1802.5	1542.9	1317.0	1201.6	1134.3	1119.8	1134.3	1196.8	1297.8
55°	2057.2	1778.5	1499.6	1240.1	1043.1	927.7	874.8	860.4	874.8	932.5	1038.3
57.5°	1706.4	1466.0	1220.9	985.3	817.2	716.2	668.1	648.9	682.5	720.9	846.0
60°	1379.5	1187.2	980.6	773.9	634.5	543.2	504.7	499.8	509.5	557.6	644.1
62.5°	1081.6	922.8	759.4	591.2	475.9	437.4	389.2	384.5	394.1	422.9	490.3
65°	778.7	677.8	552.7	432.6	341.3	288.3	269.2	274.0	283.6	302.8	365.3
67.5°	543.2	471.0	384.5	302.8	235.6	211.5	192.3	187.4	192.3	225.9	259.5
70°	365.3	322.0	259.5	230.7	163.5	129.7	134.5	120.2	139.4	139.4	168.2
72.5°	240.3	211.5	173.0	134.5	115.4	91.4	91.4	86.5	96.1	100.9	125.0
75°	125.0	96.1	96.1	67.3	48.2	24.0	43.3	38.5	33.6	38.5	48.2
77.5°	86.5	72.1	67.3	52.9	48.2	38.5	38.5	38.5	38.5	43.3	48.2
80°	52.9	52.9	38.5	33.6	28.8	24.0	28.8	28.8	28.8	28.8	33.6
82.5°	33.6	28.8	28.8	24.0	24.0	19.1	19.1	19.1	19.1	19.1	28.8
85°	28.8	19.1	19.1	14.5	19.1	33.6	14.5	19.1	19.1	19.1	14.5
87.5°	9.7	14.5	14.5	14.5	9.7	4.8	9.7	14.5	14.5	24.0	19.1
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°	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7	8954.7
2.5°	8969.1	8973.9	8973.9	8969.1	8969.1	8959.5	8978.6	8964.2	8969.1	8988.3	8973.9
5°	8978.6	8983.5	8983.5	8978.6	8978.6	8978.6	8983.5	8983.5	8978.6	8973.9	8983.5
7.5°	8997.9	8993.1	8993.1	8983.5	8983.5	8973.9	8983.5	8969.1	8978.6	8969.1	8983.5
10°	8973.9	8978.6	8973.9	8969.1	8969.1	8964.2	8964.2	8949.8	8954.7	8940.2	8949.8
12.5°	8959.5	8954.7	8954.7	8945.0	8935.4	8925.9	8921.0	8906.5	8906.5	8872.9	8887.4
15°	8921.0	8925.9	8911.4	8892.2	8882.6	8858.6	8848.9	8829.6	8810.4	8786.5	8791.3
17.5°	8887.4	8872.9	8853.8	8834.4	8795.9	8776.8	8757.6	8728.6	8719.1	8690.3	8680.7
20°	8786.5	8776.8	8752.8	8719.1	8695.0	8651.8	8632.6	8603.8	8579.7	8550.9	8536.4
22.5°	8656.6	8647.0	8618.2	8584.5	8546.1	8526.9	8507.6	8454.8	8430.6	8401.8	8397.0
25°	8493.3	8478.8	8450.0	8411.5	8392.3	8339.4	8320.2	8281.7	8272.1	8243.2	8238.5
27.5°	8243.2	8224.1	8190.4	8142.3	8108.7	8075.0	8055.9	8027.0	8017.4	7988.5	7983.8
30°	7868.4	7844.3	7777.0	7757.9	7700.1	7666.4	7666.4	7628.0	7632.8	7613.7	7613.7
32.5°	7277.2	7238.7	7185.8	7147.4	7108.9	7089.8	7089.8	7075.2	7084.9	7084.9	7094.5
35°	6493.6	6440.8	6411.9	6388.0	6388.0	6407.1	6464.8	6479.3	6508.1	6532.1	6551.4
37.5°	5489.1	5484.4	5518.0	5546.8	5618.9	5700.6	5801.5	5888.1	5969.7	6027.4	6085.1
40°	4402.8	4523.0	4619.1	4753.8	4864.2	5022.9	5205.5	5354.6	5493.8	5594.8	5700.6
42.5°	3436.6	3590.4	3792.4	3989.4	4186.6	4402.8	4643.2	4849.9	5032.5	5171.8	5282.4
45°	2677.3	2888.7	3133.9	3383.9	3638.6	3907.8	4157.7	4369.2	4561.4	4705.7	4816.2
47.5°	2158.1	2388.8	2667.6	2941.6	3230.0	3513.6	3792.4	3975.1	4133.6	4249.0	4350.0
50°	1783.2	2028.4	2321.5	2634.0	2922.3	3206.0	3446.3	3624.1	3754.0	3854.9	3917.4
52.5°	1490.0	1749.6	2062.0	2374.4	2662.8	2922.3	3138.8	3273.3	3379.0	3451.2	3508.8
55°	1230.4	1480.5	1773.7	2066.8	2350.5	2595.5	2773.4	2874.4	2955.9	2999.2	3032.9
57.5°	1004.6	1235.2	1504.5	1773.7	2018.8	2220.6	2360.0	2460.9	2499.4	2533.0	2528.2
60°	788.3	1004.6	1249.8	1480.5	1691.9	1855.2	1956.3	2014.0	2042.8	2057.2	2047.6
62.5°	620.0	817.2	1004.6	1206.4	1360.2	1499.6	1595.8	1595.8	1610.2	1615.0	1629.4
65°	461.4	610.4	773.9	922.8	1047.8	1139.2	1192.0	1206.4	1225.7	1220.9	1211.3
67.5°	341.3	451.8	571.9	682.5	769.1	826.6	865.1	898.9	894.0	884.5	879.6
70°	235.6	307.7	413.4	480.7	543.2	600.9	610.4	615.3	620.0	624.8	615.3
72.5°	163.5	216.3	274.0	331.7	370.1	394.1	418.2	422.9	422.9	422.9	418.2
75°	81.8	110.6	163.5	187.4	221.1	230.7	250.0	250.0	264.4	245.1	240.3
77.5°	72.1	86.5	115.4	134.5	149.1	163.5	168.2	182.7	177.9	168.2	173.0
80°	43.3	52.9	72.1	81.8	100.9	105.8	110.6	115.4	110.6	115.4	115.4
82.5°	33.6	38.5	48.2	48.2	62.4	62.4	67.3	67.3	72.1	72.1	72.1
85°	19.1	33.6	28.8	57.6	38.5	38.5	48.2	57.6	48.2	48.2	57.6
87.5°	19.1	19.1	14.5	19.1	19.1	19.1	24.0	28.8	28.8	33.6	28.8
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: P249612

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8954.7	8954.7	8954.7	8954.7
2.5°	8969.1	8978.6	8964.2	8959.5
5°	8983.5	8983.5	8973.9	8973.9
7.5°	8983.5	8983.5	8969.1	8959.5
10°	8945.0	8945.0	8930.6	8921.0
12.5°	8872.9	8872.9	8868.0	8853.8
15°	8781.6	8781.6	8762.3	8748.0
17.5°	8656.6	8666.2	8642.2	8642.2
20°	8522.1	8517.3	8498.0	8488.5
22.5°	8382.7	8373.0	8368.2	8339.4
25°	8233.6	8224.1	8209.6	8195.2
27.5°	7979.0	7974.1	7959.7	7940.5
30°	7589.6	7584.8	7565.5	7565.5
32.5°	7084.9	7080.1	7060.8	7065.7
35°	6560.9	6580.2	6570.6	6551.4
37.5°	6123.6	6138.0	6147.7	6138.0
40°	5758.2	5801.5	5806.3	5816.0
42.5°	5369.0	5426.6	5445.9	5455.5
45°	4902.6	4955.6	4998.8	4989.3
47.5°	4426.8	4465.2	4503.7	4474.9
50°	3970.2	3994.2	4008.7	4008.7
52.5°	3537.7	3537.7	3532.8	3537.7
55°	3042.6	3042.6	3023.3	3032.9
57.5°	2523.4	2533.0	2518.6	2494.6
60°	2042.8	2018.8	2009.1	1994.7
62.5°	1591.0	1591.0	1557.3	1600.5
65°	1192.0	1177.6	1163.1	1158.3
67.5°	865.1	860.4	846.0	841.2
70°	610.4	591.2	586.4	576.8
72.5°	408.6	408.6	398.9	398.9
75°	250.0	225.9	221.1	225.9
77.5°	173.0	168.2	168.2	163.5
80°	115.4	110.6	120.2	105.8
82.5°	72.1	77.0	72.1	77.0
85°	48.2	57.6	52.9	52.9
87.5°	28.8	28.8	28.8	28.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)