

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: P249324

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249324  
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 ER8B200835 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21420.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

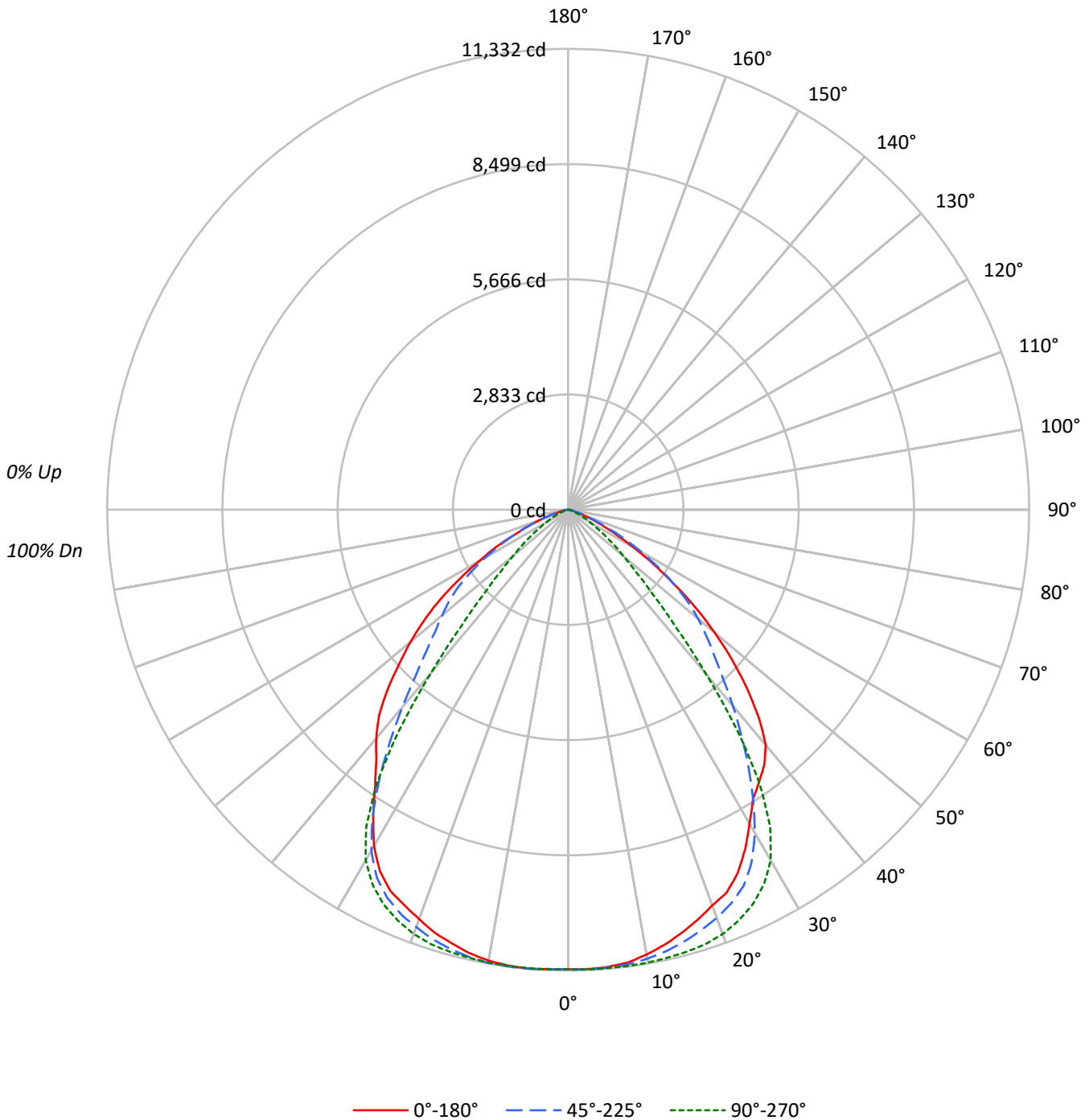
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	348500	348500	348500
5°	349268	350209	350586
10°	347798	354067	352548
15°	343944	359245	352468
20°	339812	364296	351557
25°	335403	364715	351918
30°	317309	354461	339991
35°	307835	308061	311261
40°	304022	211957	295480
45°	270900	127247	274602
50°	225251	84686	242714
55°	168935	58380	205788
60°	114483	38903	155267
65°	69054	25231	106667
70°	38291	13677	65627
75°	17347	5778	33967
80°	15076	6464	23689
85°	17160	8562	23634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1078.6	5.0
10°-20°	3132.3	14.6
20°-30°	4754.3	22.2
30°-40°	4993.4	23.3
40°-50°	3743.7	17.5
50°-60°	2402.1	11.2
60°-70°	1027.6	4.8
70°-80°	242.8	1.1
80°-90°	45.2	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°	8965.2	41.9
0°-40°	13958.7	65.2
0°-60°	20104.5	93.9
0°-90°	21420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11302	11302	11302	11302	11302	
5°	11283	11302	11314	11332	11326	###
15°	10774	10998	11253	11180	11041	3039
25°	9858	10204	10719	10525	10343	4503
35°	8178	7722	8184	8086	8268	5132
45°	6212	5078	2918	4932	6297	4757
55°	3142	3142	1086	3276	3828	2850
65°	946	1116	346	1438	1462	1010
75°	146	170	48	291	285	212
85°	48	30	24	48	67	51
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°	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6
2.5°	11307.7	11319.9	11313.8	11313.8	11307.7	11313.8	11313.8	11326.0	11326.0	11313.8	11307.7
5°	11283.4	11295.5	11295.5	11283.4	11283.4	11313.8	11295.5	11307.7	11307.7	11301.6	11301.6
7.5°	11228.9	11228.9	11253.1	11235.0	11235.0	11253.1	11247.0	11259.2	11271.3	11277.4	11277.4
10°	11107.5	11119.6	11125.7	11125.7	11131.8	11149.9	11162.1	11186.4	11198.5	11210.6	11216.7
12.5°	10955.9	10974.0	10980.1	10974.0	10992.3	11016.5	11046.9	11077.2	11095.4	11119.6	11137.9
15°	10773.8	10773.8	10786.0	10804.2	10816.4	10852.7	10883.0	10919.4	10967.9	10998.4	11028.6
17.5°	10573.7	10585.9	10604.0	10604.0	10628.3	10688.9	10707.1	10761.8	10816.4	10846.7	10907.4
20°	10355.3	10367.4	10385.6	10397.8	10428.1	10476.6	10513.0	10561.5	10622.2	10676.9	10737.4
22.5°	10185.4	10161.2	10173.2	10185.4	10215.8	10258.3	10300.7	10361.3	10422.0	10476.6	10537.3
25°	9857.8	9863.9	9882.1	9894.2	9930.7	9967.0	10015.6	10088.3	10142.9	10203.6	10270.3
27.5°	9415.0	9421.1	9451.4	9451.4	9481.7	9542.4	9572.7	9633.4	9706.2	9766.8	9845.8
30°	8911.5	8923.6	8923.6	8947.9	8966.0	8996.4	9026.7	9087.4	9123.8	9178.4	9287.7
32.5°	8450.5	8462.5	8456.4	8450.5	8432.2	8426.2	8420.1	8432.2	8444.4	8462.5	8505.0
35°	8177.5	8147.1	8122.9	8080.4	8031.9	7971.2	7916.6	7843.8	7777.0	7722.4	7661.9
37.5°	7916.6	7910.5	7874.1	7813.4	7716.3	7607.2	7479.9	7322.1	7164.3	6994.5	6830.8
40°	7552.6	7534.4	7504.1	7419.2	7309.9	7176.5	7006.7	6812.5	6557.7	6296.9	6030.0
42.5°	6933.8	6939.9	6903.5	6836.7	6733.7	6606.2	6430.3	6218.0	5945.1	5635.6	5289.9
45°	6212.0	6212.0	6199.8	6145.2	6072.4	5969.3	5835.8	5659.9	5393.0	5077.5	4707.4
47.5°	5459.7	5465.8	5447.5	5435.5	5405.1	5338.4	5241.4	5107.9	4919.8	4616.4	4246.4
50°	4695.4	4695.4	4725.7	4719.6	4719.6	4695.4	4653.0	4574.0	4410.3	4167.6	3821.9
52.5°	3931.0	3943.1	3961.4	3985.6	4015.9	4064.4	4015.9	3979.5	3876.4	3688.3	3391.1
55°	3142.3	3154.5	3184.8	3227.3	3263.8	3312.3	3324.3	3324.3	3269.7	3142.3	2917.9
57.5°	2469.0	2450.8	2475.1	2511.5	2560.0	2608.6	2644.9	2687.4	2681.3	2596.4	2414.4
60°	1856.3	1862.4	1880.5	1917.0	1953.4	1995.8	2044.4	2080.7	2099.0	2056.5	1941.2
62.5°	1352.8	1352.8	1377.0	1413.4	1431.6	1492.4	1522.6	1540.9	1559.0	1552.9	1480.2
65°	946.4	958.4	970.6	988.9	1007.0	1043.3	1061.6	1098.0	1110.1	1116.2	1061.6
67.5°	667.4	649.1	661.3	673.3	691.6	715.9	752.3	752.3	770.4	770.4	734.0
70°	424.7	424.7	430.8	448.9	461.0	467.1	479.3	491.3	509.6	503.5	503.5
72.5°	285.1	279.1	285.1	291.2	297.3	315.4	315.4	321.5	333.7	339.8	315.4
75°	145.6	151.7	163.7	157.8	175.9	163.7	169.8	188.1	182.0	169.8	169.8
77.5°	121.3	121.3	121.3	115.3	127.4	127.4	121.3	133.4	127.4	127.4	121.3
80°	84.9	91.0	84.9	78.8	84.9	78.8	78.8	78.8	78.8	78.8	72.7
82.5°	66.8	54.6	60.7	54.6	60.7	60.7	54.6	48.5	48.5	54.6	48.5
85°	48.5	36.4	42.5	42.5	36.4	36.4	36.4	36.4	36.4	30.3	30.3
87.5°	30.3	18.3	18.3	18.3	24.2	24.2	24.2	18.3	24.2	24.2	12.2
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°	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6
2.5°	11319.9	11313.8	11326.0	11319.9	11319.9	11313.8	11319.9	11313.8	11326.0	11301.6	11307.7
5°	11319.9	11307.7	11313.8	11319.9	11326.0	11313.8	11313.8	11313.8	11326.0	11313.8	11319.9
7.5°	11295.5	11289.4	11307.7	11319.9	11313.8	11307.7	11319.9	11313.8	11326.0	11319.9	11331.9
10°	11247.0	11253.1	11265.2	11283.4	11289.4	11295.5	11307.7	11307.7	11326.0	11301.6	11313.8
12.5°	11174.3	11198.5	11228.9	11240.9	11265.2	11265.2	11277.4	11283.4	11295.5	11289.4	11307.7
15°	11083.3	11113.5	11149.9	11180.3	11210.6	11228.9	11247.0	11253.1	11271.3	11253.1	11259.2
17.5°	10974.0	11010.4	11065.0	11101.4	11149.9	11168.2	11192.4	11204.5	11222.8	11210.6	11216.7
20°	10822.3	10864.9	10925.5	10980.1	11010.4	11052.8	11083.3	11101.4	11113.5	11101.4	11107.5
22.5°	10610.1	10670.8	10749.6	10792.0	10852.7	10889.1	10895.2	10937.7	10967.9	10937.7	10949.8
25°	10361.3	10422.0	10482.7	10573.7	10628.3	10670.8	10713.2	10719.3	10749.6	10743.5	10737.4
27.5°	9948.8	10027.7	10130.8	10203.6	10276.4	10343.2	10391.7	10403.7	10434.2	10422.0	10428.1
30°	9384.6	9469.6	9566.7	9681.9	9785.1	9851.7	9912.4	9954.9	9985.2	9967.0	9961.0
32.5°	8583.9	8668.8	8772.0	8887.2	9008.6	9105.5	9178.4	9233.0	9269.4	9257.2	9227.0
35°	7667.9	7692.1	7758.9	7849.9	7952.9	8056.1	8122.9	8183.5	8225.9	8238.1	8238.1
37.5°	6727.6	6648.8	6600.3	6600.3	6660.8	6703.3	6764.0	6800.4	6867.1	6891.3	6909.6
40°	5817.6	5635.6	5465.8	5338.4	5253.5	5247.4	5247.4	5265.5	5326.3	5405.1	5478.0
42.5°	5004.7	4713.5	4452.7	4216.1	4046.3	3949.2	3906.8	3912.9	3961.4	4034.1	4155.4
45°	4355.6	3991.7	3664.1	3379.0	3148.4	2996.7	2924.0	2917.9	2954.3	3039.2	3172.8
47.5°	3852.2	3463.9	3093.8	2766.2	2517.6	2353.7	2268.8	2244.6	2268.8	2347.6	2505.4
50°	3433.6	3033.2	2651.0	2311.3	2044.4	1874.6	1795.6	1765.3	1795.6	1862.4	2020.0
52.5°	3045.3	2632.8	2274.9	1947.3	1662.2	1516.6	1431.6	1413.4	1431.6	1510.5	1638.0
55°	2596.4	2244.6	1892.7	1565.1	1316.5	1170.8	1104.1	1085.9	1104.1	1176.9	1310.4
57.5°	2153.6	1850.2	1540.9	1243.6	1031.3	903.8	843.3	818.9	861.4	909.9	1067.7
60°	1741.0	1498.4	1237.5	976.7	800.8	685.5	636.9	630.8	643.0	703.7	812.8
62.5°	1365.0	1164.8	958.4	746.2	600.6	552.0	491.3	485.4	497.4	533.8	618.8
65°	982.8	855.4	697.6	545.9	430.8	364.0	339.8	345.8	357.9	382.2	461.0
67.5°	685.5	594.5	485.4	382.2	297.3	266.9	242.7	236.6	242.7	285.1	327.6
70°	461.0	406.4	327.6	291.2	206.3	163.7	169.8	151.7	175.9	175.9	212.3
72.5°	303.3	266.9	218.3	169.8	145.6	115.3	115.3	109.2	121.3	127.4	157.8
75°	157.8	121.3	121.3	84.9	60.7	30.3	54.6	48.5	42.5	48.5	60.7
77.5°	109.2	91.0	84.9	66.8	60.7	48.5	48.5	48.5	48.5	54.6	60.7
80°	66.8	66.8	48.5	42.5	36.4	30.3	36.4	36.4	36.4	36.4	42.5
82.5°	42.5	36.4	36.4	30.3	30.3	24.2	24.2	24.2	24.2	24.2	36.4
85°	36.4	24.2	24.2	18.3	24.2	42.5	18.3	24.2	24.2	24.2	18.3
87.5°	12.2	18.3	18.3	18.3	12.2	6.1	12.2	18.3	18.3	30.3	24.2
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°	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6	11301.6
2.5°	11319.9	11326.0	11326.0	11319.9	11319.9	11307.7	11331.9	11313.8	11319.9	11344.1	11326.0
5°	11331.9	11338.0	11338.0	11331.9	11331.9	11331.9	11338.0	11338.0	11331.9	11326.0	11338.0
7.5°	11356.2	11350.2	11350.2	11338.0	11338.0	11326.0	11338.0	11319.9	11331.9	11319.9	11338.0
10°	11326.0	11331.9	11326.0	11319.9	11319.9	11313.8	11313.8	11295.5	11301.6	11283.4	11295.5
12.5°	11307.7	11301.6	11301.6	11289.4	11277.4	11265.2	11259.2	11240.9	11240.9	11198.5	11216.7
15°	11259.2	11265.2	11247.0	11222.8	11210.6	11180.3	11168.2	11143.8	11119.6	11089.4	11095.4
17.5°	11216.7	11198.5	11174.3	11149.9	11101.4	11077.2	11052.8	11016.5	11004.3	10967.9	10955.9
20°	11089.4	11077.2	11046.9	11004.3	10974.0	10919.4	10895.2	10858.8	10828.4	10792.0	10773.8
22.5°	10925.5	10913.3	10876.9	10834.5	10786.0	10761.8	10737.4	10670.8	10640.3	10604.0	10597.9
25°	10719.3	10701.0	10664.7	10616.1	10591.8	10525.2	10500.8	10452.3	10440.2	10403.7	10397.8
27.5°	10403.7	10379.5	10337.1	10276.4	10233.9	10191.5	10167.3	10130.8	10118.7	10082.2	10076.3
30°	9930.7	9900.3	9815.3	9791.1	9718.3	9675.8	9675.8	9627.3	9633.4	9609.2	9609.2
32.5°	9184.5	9136.0	9069.2	9020.6	8972.1	8947.9	8947.9	8929.6	8941.8	8941.8	8954.0
35°	8195.6	8129.0	8092.5	8062.2	8062.2	8086.4	8159.3	8177.5	8213.9	8244.2	8268.5
37.5°	6927.7	6921.8	6964.2	7000.6	7091.6	7194.7	7322.1	7431.3	7534.4	7607.2	7680.0
40°	5556.8	5708.5	5829.7	5999.7	6139.1	6339.3	6569.8	6757.9	6933.8	7061.3	7194.7
42.5°	4337.4	4531.5	4786.4	5035.0	5283.8	5556.8	5860.2	6121.0	6351.5	6527.4	6666.9
45°	3379.0	3645.8	3955.3	4270.7	4592.2	4932.0	5247.4	5514.3	5757.0	5939.0	6078.5
47.5°	2723.8	3015.0	3366.8	3712.6	4076.6	4434.5	4786.4	5016.9	5217.0	5362.6	5490.1
50°	2250.6	2560.0	2930.1	3324.3	3688.3	4046.3	4349.6	4574.0	4737.9	4865.2	4944.0
52.5°	1880.5	2208.1	2602.5	2996.7	3360.7	3688.3	3961.4	4131.2	4264.7	4355.6	4428.4
55°	1552.9	1868.5	2238.5	2608.6	2966.5	3275.8	3500.2	3627.7	3730.7	3785.4	3827.8
57.5°	1267.9	1559.0	1898.8	2238.5	2547.9	2802.7	2978.6	3106.0	3154.5	3197.0	3190.9
60°	994.9	1267.9	1577.3	1868.5	2135.4	2341.5	2469.0	2541.8	2578.2	2596.4	2584.2
62.5°	782.5	1031.3	1267.9	1522.6	1716.8	1892.7	2014.1	2014.1	2032.2	2038.3	2056.5
65°	582.3	770.4	976.7	1164.8	1322.4	1437.7	1504.5	1522.6	1547.0	1540.9	1528.7
67.5°	430.8	570.3	721.8	861.4	970.6	1043.3	1091.9	1134.5	1128.4	1116.2	1110.1
70°	297.3	388.3	521.7	606.6	685.5	758.3	770.4	776.5	782.5	788.6	776.5
72.5°	206.3	273.0	345.8	418.6	467.1	497.4	527.8	533.8	533.8	533.8	527.8
75°	103.2	139.5	206.3	236.6	279.1	291.2	315.4	315.4	333.7	309.3	303.3
77.5°	91.0	109.2	145.6	169.8	188.1	206.3	212.3	230.5	224.4	212.3	218.3
80°	54.6	66.8	91.0	103.2	127.4	133.4	139.5	145.6	139.5	145.6	145.6
82.5°	42.5	48.5	60.7	60.7	78.8	78.8	84.9	84.9	91.0	91.0	91.0
85°	24.2	42.5	36.4	72.7	48.5	48.5	60.7	72.7	60.7	60.7	72.7
87.5°	24.2	24.2	18.3	24.2	24.2	24.2	30.3	36.4	36.4	42.5	36.4
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: P249324

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11301.6	11301.6	11301.6	11301.6
2.5°	11319.9	11331.9	11313.8	11307.7
5°	11338.0	11338.0	11326.0	11326.0
7.5°	11338.0	11338.0	11319.9	11307.7
10°	11289.4	11289.4	11271.3	11259.2
12.5°	11198.5	11198.5	11192.4	11174.3
15°	11083.3	11083.3	11058.9	11040.8
17.5°	10925.5	10937.7	10907.4	10907.4
20°	10755.7	10749.6	10725.4	10713.2
22.5°	10579.8	10567.6	10561.5	10525.2
25°	10391.7	10379.5	10361.3	10343.2
27.5°	10070.2	10064.1	10045.9	10021.7
30°	9578.7	9572.7	9548.5	9548.5
32.5°	8941.8	8935.7	8911.5	8917.6
35°	8280.5	8304.9	8292.7	8268.5
37.5°	7728.5	7746.8	7758.9	7746.8
40°	7267.5	7322.1	7328.2	7340.4
42.5°	6776.2	6848.9	6873.2	6885.3
45°	6187.6	6254.4	6309.0	6296.9
47.5°	5587.1	5635.6	5684.1	5647.8
50°	5010.8	5041.1	5059.4	5059.4
52.5°	4464.9	4464.9	4458.8	4464.9
55°	3840.0	3840.0	3815.8	3827.8
57.5°	3184.8	3197.0	3178.7	3148.4
60°	2578.2	2547.9	2535.7	2517.6
62.5°	2008.0	2008.0	1965.6	2020.0
65°	1504.5	1486.3	1468.0	1461.9
67.5°	1091.9	1085.9	1067.7	1061.6
70°	770.4	746.2	740.1	727.9
72.5°	515.7	515.7	503.5	503.5
75°	315.4	285.1	279.1	285.1
77.5°	218.3	212.3	212.3	206.3
80°	145.6	139.5	151.7	133.4
82.5°	91.0	97.1	91.0	97.1
85°	60.7	72.7	66.8	66.8
87.5°	36.4	36.4	36.4	36.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)