

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: P249384

Luminaire Tested: **LD8B120D010 ER8B120950 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249384  
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: LD8B120D010 ER8B120950 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11271.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

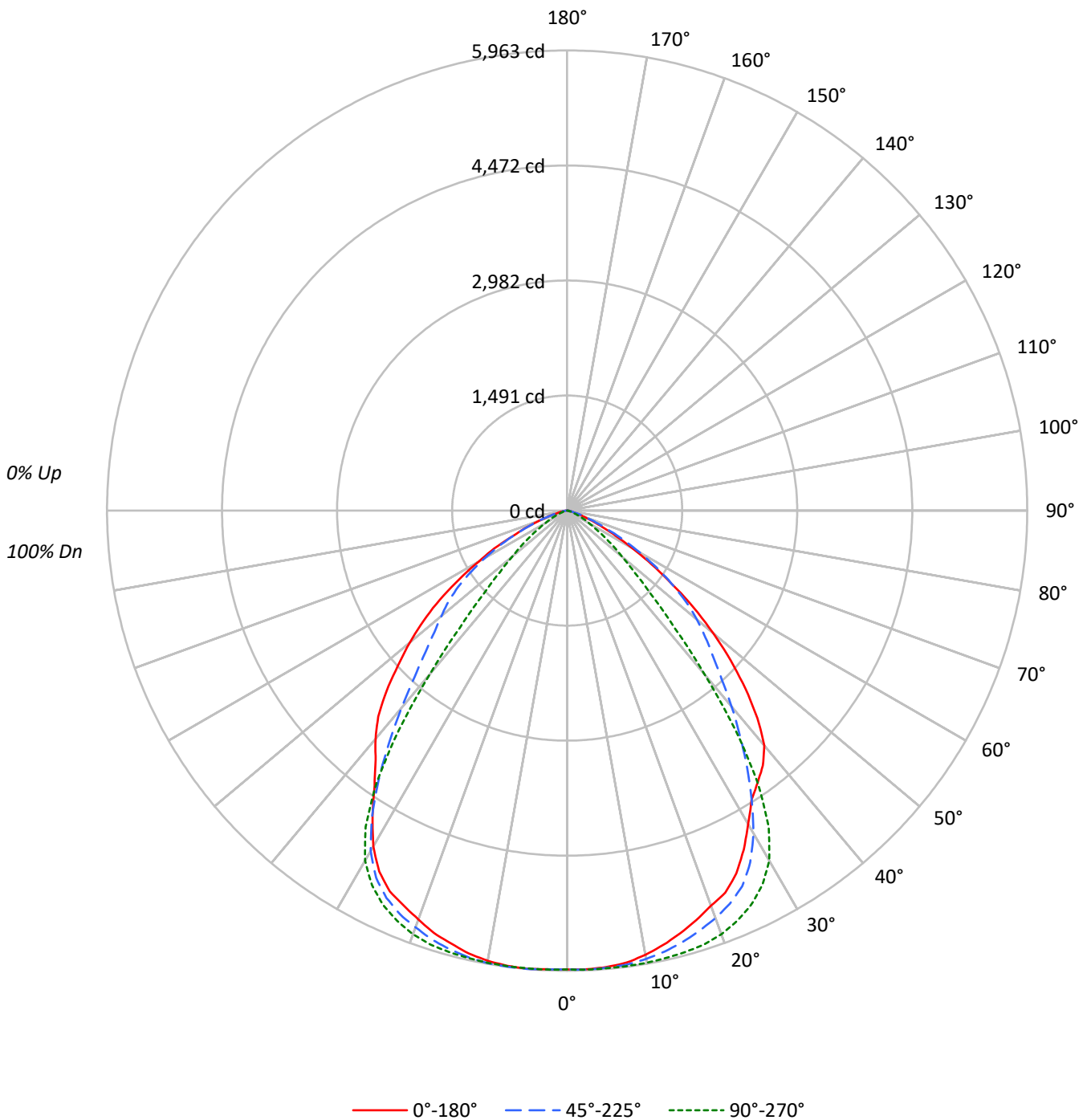
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	183377	183377	183377
5°	183781	184276	184474
10°	183006	186306	185508
15°	180981	189032	185466
20°	178807	191687	184987
25°	176486	191910	185176
30°	166967	186515	178899
35°	161979	162100	163782
40°	159973	111532	155477
45°	142545	66957	144495
50°	118526	44562	127713
55°	88895	30719	108286
60°	60242	20469	81698
65°	36337	13280	56132
70°	20151	7195	34531
75°	9126	3038	17871
80°	7938	3392	12466
85°	9022	4493	12419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.5	5.0
10°-20°	1648.2	14.6
20°-30°	2501.7	22.2
30°-40°	2627.5	23.3
40°-50°	1969.9	17.5
50°-60°	1264.0	11.2
60°-70°	540.7	4.8
70°-80°	127.7	1.1
80°-90°	23.7	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°	4717.4	41.9
0°-40°	7344.9	65.2
0°-60°	10578.8	93.9
0°-90°	11271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5947	5947	5947	5947	5947	
5°	5937	5947	5953	5963	5960	564
15°	5669	5787	5921	5883	5810	1599
25°	5187	5369	5640	5538	5442	2370
35°	4303	4064	4306	4255	4351	2701
45°	3269	2672	1535	2595	3313	2503
55°	1654	1654	571	1724	2014	1500
65°	498	587	182	756	769	532
75°	77	89	26	153	150	112
85°	26	16	13	26	35	27
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°	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8
2.5°	5950.0	5956.4	5953.2	5953.2	5950.0	5953.2	5953.2	5959.6	5959.6	5953.2	5950.0
5°	5937.2	5943.6	5943.6	5937.2	5937.2	5953.2	5943.6	5950.0	5950.0	5946.8	5946.8
7.5°	5908.5	5908.5	5921.3	5911.7	5911.7	5921.3	5918.1	5924.5	5930.9	5934.1	5934.1
10°	5844.6	5851.0	5854.2	5854.2	5857.4	5867.0	5873.4	5886.2	5892.5	5898.9	5902.1
12.5°	5764.9	5774.4	5777.6	5774.4	5784.0	5796.8	5812.8	5828.7	5838.3	5851.0	5860.7
15°	5669.1	5669.1	5675.5	5685.1	5691.5	5710.6	5726.5	5745.7	5771.2	5787.2	5803.2
17.5°	5563.8	5570.2	5579.7	5579.7	5592.5	5624.4	5634.0	5662.7	5691.5	5707.4	5739.4
20°	5448.9	5455.2	5464.8	5471.2	5487.2	5512.7	5531.8	5557.4	5589.3	5618.1	5649.9
22.5°	5359.5	5346.7	5353.1	5359.5	5375.5	5397.8	5420.1	5452.0	5484.0	5512.7	5544.6
25°	5187.1	5190.3	5199.9	5206.2	5225.4	5244.6	5270.1	5308.4	5337.1	5369.1	5404.1
27.5°	4954.1	4957.3	4973.2	4973.2	4989.2	5021.1	5037.0	5069.0	5107.3	5139.2	5180.8
30°	4689.2	4695.5	4695.5	4708.3	4717.8	4733.8	4749.8	4781.7	4800.9	4829.6	4887.1
32.5°	4446.6	4452.9	4449.7	4446.6	4437.0	4433.8	4430.6	4437.0	4443.4	4452.9	4475.2
35°	4302.9	4286.9	4274.2	4251.9	4226.3	4194.4	4165.6	4127.4	4092.2	4063.5	4031.6
37.5°	4165.6	4162.4	4143.3	4111.3	4060.3	4002.9	3935.8	3852.8	3769.8	3680.4	3594.3
40°	3974.1	3964.5	3948.6	3903.9	3846.4	3776.2	3686.8	3584.7	3450.6	3313.4	3172.9
42.5°	3648.5	3651.7	3632.6	3597.4	3543.2	3476.1	3383.6	3271.9	3128.2	2965.4	2783.5
45°	3268.7	3268.7	3262.3	3233.5	3195.3	3141.0	3070.8	2978.2	2837.8	2671.7	2477.0
47.5°	2872.8	2876.0	2866.4	2860.1	2844.1	2809.0	2757.9	2687.7	2588.8	2429.1	2234.4
50°	2470.7	2470.7	2486.6	2483.4	2483.4	2470.7	2448.3	2406.8	2320.6	2192.9	2011.0
52.5°	2068.4	2074.8	2084.5	2097.2	2113.1	2138.7	2113.1	2094.0	2039.7	1940.7	1784.4
55°	1653.5	1659.9	1675.8	1698.2	1717.4	1742.9	1749.2	1749.2	1720.5	1653.5	1535.4
57.5°	1299.2	1289.6	1302.4	1321.5	1347.1	1372.6	1391.7	1414.1	1410.9	1366.2	1270.4
60°	976.8	980.0	989.5	1008.7	1027.9	1050.2	1075.7	1094.9	1104.5	1082.1	1021.5
62.5°	711.8	711.8	724.6	743.7	753.3	785.3	801.2	810.8	820.3	817.1	778.9
65°	498.0	504.3	510.7	520.3	529.9	549.0	558.6	577.7	584.1	587.3	558.6
67.5°	351.2	341.6	348.0	354.3	363.9	376.7	395.8	395.8	405.4	405.4	386.2
70°	223.5	223.5	226.7	236.2	242.6	245.8	252.2	258.5	268.1	264.9	264.9
72.5°	150.0	146.8	150.0	153.2	156.4	166.0	166.0	169.2	175.6	178.8	166.0
75°	76.6	79.8	86.2	83.0	92.6	86.2	89.4	99.0	95.8	89.4	89.4
77.5°	63.8	63.8	63.8	60.7	67.0	67.0	63.8	70.2	67.0	67.0	63.8
80°	44.7	47.9	44.7	41.5	44.7	41.5	41.5	41.5	41.5	41.5	38.3
82.5°	35.1	28.7	31.9	28.7	31.9	31.9	28.7	25.5	25.5	28.7	25.5
85°	25.5	19.1	22.3	22.3	19.1	19.1	19.1	19.1	19.1	15.9	15.9
87.5°	15.9	9.6	9.6	9.6	12.7	12.7	12.7	9.6	12.7	12.7	6.4
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°	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8
2.5°	5956.4	5953.2	5959.6	5956.4	5956.4	5953.2	5956.4	5953.2	5959.6	5946.8	5950.0
5°	5956.4	5950.0	5953.2	5956.4	5959.6	5953.2	5953.2	5953.2	5959.6	5953.2	5956.4
7.5°	5943.6	5940.4	5950.0	5956.4	5953.2	5950.0	5956.4	5953.2	5959.6	5956.4	5962.7
10°	5918.1	5921.3	5927.7	5937.2	5940.4	5943.6	5950.0	5950.0	5959.6	5946.8	5953.2
12.5°	5879.8	5892.5	5908.5	5914.9	5927.7	5927.7	5934.1	5937.2	5943.6	5940.4	5950.0
15°	5831.9	5847.8	5867.0	5883.0	5898.9	5908.5	5918.1	5921.3	5930.9	5921.3	5924.5
17.5°	5774.4	5793.6	5822.3	5841.4	5867.0	5876.6	5889.3	5895.7	5905.3	5898.9	5902.1
20°	5694.6	5717.0	5748.9	5777.6	5793.6	5815.9	5831.9	5841.4	5847.8	5841.4	5844.6
22.5°	5582.9	5614.9	5656.3	5678.7	5710.6	5729.7	5733.0	5755.3	5771.2	5755.3	5761.7
25°	5452.0	5484.0	5515.9	5563.8	5592.5	5614.9	5637.2	5640.4	5656.3	5653.1	5649.9
27.5°	5235.0	5276.5	5330.7	5369.1	5407.3	5442.5	5468.0	5474.3	5490.4	5484.0	5487.2
30°	4938.1	4982.8	5033.9	5094.5	5148.8	5183.9	5215.8	5238.2	5254.1	5244.6	5241.4
32.5°	4516.8	4561.5	4615.7	4676.4	4740.2	4791.2	4829.6	4858.3	4877.5	4871.1	4855.1
35°	4034.8	4047.5	4082.7	4130.6	4184.8	4239.0	4274.2	4306.1	4328.4	4334.8	4334.8
37.5°	3540.0	3498.5	3473.0	3473.0	3504.9	3527.2	3559.1	3578.3	3613.4	3626.2	3635.8
40°	3061.2	2965.4	2876.0	2809.0	2764.4	2761.2	2761.2	2770.7	2802.6	2844.1	2882.4
42.5°	2633.5	2480.2	2343.0	2218.5	2129.1	2078.0	2055.7	2058.9	2084.5	2122.7	2186.5
45°	2291.9	2100.4	1928.0	1778.0	1656.7	1576.9	1538.6	1535.4	1554.5	1599.2	1669.5
47.5°	2027.0	1822.6	1627.9	1455.6	1324.7	1238.5	1193.8	1181.1	1193.8	1235.3	1318.3
50°	1806.7	1596.1	1394.9	1216.2	1075.7	986.4	944.8	928.9	944.8	980.0	1062.9
52.5°	1602.4	1385.3	1197.0	1024.7	874.6	798.0	753.3	743.7	753.3	794.8	861.9
55°	1366.2	1181.1	995.9	823.5	692.7	616.1	580.9	571.4	580.9	619.3	689.5
57.5°	1133.2	973.6	810.8	654.4	542.7	475.6	443.7	430.9	453.2	478.8	561.8
60°	916.1	788.5	651.2	513.9	421.4	360.7	335.1	331.9	338.3	370.3	427.7
62.5°	718.2	612.9	504.3	392.6	316.0	290.5	258.5	255.4	261.7	280.9	325.6
65°	517.1	450.1	367.1	287.3	226.7	191.5	178.8	182.0	188.3	201.1	242.6
67.5°	360.7	312.8	255.4	201.1	156.4	140.4	127.7	124.5	127.7	150.0	172.4
70°	242.6	213.9	172.4	153.2	108.6	86.2	89.4	79.8	92.6	92.6	111.7
72.5°	159.6	140.4	114.9	89.4	76.6	60.7	60.7	57.5	63.8	67.0	83.0
75°	83.0	63.8	63.8	44.7	31.9	15.9	28.7	25.5	22.3	25.5	31.9
77.5°	57.5	47.9	44.7	35.1	31.9	25.5	25.5	25.5	25.5	28.7	31.9
80°	35.1	35.1	25.5	22.3	19.1	15.9	19.1	19.1	19.1	19.1	22.3
82.5°	22.3	19.1	19.1	15.9	15.9	12.7	12.7	12.7	12.7	12.7	19.1
85°	19.1	12.7	12.7	9.6	12.7	22.3	9.6	12.7	12.7	12.7	9.6
87.5°	6.4	9.6	9.6	9.6	6.4	3.2	6.4	9.6	9.6	15.9	12.7
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8	5946.8
2.5°	5956.4	5959.6	5959.6	5956.4	5956.4	5950.0	5962.7	5953.2	5956.4	5969.1	5959.6
5°	5962.7	5965.9	5965.9	5962.7	5962.7	5962.7	5965.9	5965.9	5962.7	5959.6	5965.9
7.5°	5975.5	5972.3	5972.3	5965.9	5965.9	5959.6	5965.9	5956.4	5962.7	5956.4	5965.9
10°	5959.6	5962.7	5959.6	5956.4	5956.4	5953.2	5953.2	5943.6	5946.8	5937.2	5943.6
12.5°	5950.0	5946.8	5946.8	5940.4	5934.1	5927.7	5924.5	5914.9	5914.9	5892.5	5902.1
15°	5924.5	5927.7	5918.1	5905.3	5898.9	5883.0	5876.6	5863.8	5851.0	5835.1	5838.3
17.5°	5902.1	5892.5	5879.8	5867.0	5841.4	5828.7	5815.9	5796.8	5790.4	5771.2	5764.9
20°	5835.1	5828.7	5812.8	5790.4	5774.4	5745.7	5733.0	5713.8	5697.8	5678.7	5669.1
22.5°	5748.9	5742.5	5723.3	5701.0	5675.5	5662.7	5649.9	5614.9	5598.8	5579.7	5576.5
25°	5640.4	5630.8	5611.7	5586.1	5573.3	5538.2	5525.4	5499.9	5493.6	5474.3	5471.2
27.5°	5474.3	5461.6	5439.3	5407.3	5385.0	5362.7	5349.9	5330.7	5324.4	5305.2	5302.0
30°	5225.4	5209.4	5164.7	5152.0	5113.7	5091.3	5091.3	5065.8	5069.0	5056.3	5056.3
32.5°	4832.8	4807.3	4772.1	4746.6	4721.0	4708.3	4708.3	4698.7	4705.1	4705.1	4711.5
35°	4312.5	4277.4	4258.2	4242.2	4242.2	4255.0	4293.3	4302.9	4322.1	4338.0	4350.8
37.5°	3645.3	3642.2	3664.5	3683.6	3731.5	3785.8	3852.8	3910.3	3964.5	4002.9	4041.1
40°	2923.9	3003.7	3067.6	3157.0	3230.3	3335.7	3457.0	3555.9	3648.5	3715.6	3785.8
42.5°	2282.3	2384.5	2518.6	2649.4	2780.3	2923.9	3083.6	3220.8	3342.1	3434.6	3508.1
45°	1778.0	1918.4	2081.3	2247.2	2416.4	2595.2	2761.2	2901.6	3029.3	3125.0	3198.5
47.5°	1433.2	1586.5	1771.6	1953.6	2145.1	2333.4	2518.6	2639.9	2745.1	2821.8	2888.9
50°	1184.2	1347.1	1541.8	1749.2	1940.7	2129.1	2288.7	2406.8	2493.0	2560.0	2601.5
52.5°	989.5	1161.9	1369.4	1576.9	1768.4	1940.7	2084.5	2173.8	2244.0	2291.9	2330.2
55°	817.1	983.2	1177.9	1372.6	1560.9	1723.7	1841.8	1908.9	1963.1	1991.8	2014.2
57.5°	667.2	820.3	999.1	1177.9	1340.7	1474.8	1567.3	1634.3	1659.9	1682.2	1679.0
60°	523.5	667.2	829.9	983.2	1123.6	1232.1	1299.2	1337.5	1356.6	1366.2	1359.8
62.5°	411.8	542.7	667.2	801.2	903.4	995.9	1059.8	1059.8	1069.3	1072.5	1082.1
65°	306.4	405.4	513.9	612.9	695.8	756.5	791.7	801.2	814.0	810.8	804.4
67.5°	226.7	300.1	379.8	453.2	510.7	549.0	574.5	597.0	593.7	587.3	584.1
70°	156.4	204.3	274.5	319.2	360.7	399.0	405.4	408.6	411.8	415.0	408.6
72.5°	108.6	143.6	182.0	220.3	245.8	261.7	277.7	280.9	280.9	280.9	277.7
75°	54.3	73.4	108.6	124.5	146.8	153.2	166.0	166.0	175.6	162.8	159.6
77.5°	47.9	57.5	76.6	89.4	99.0	108.6	111.7	121.3	118.1	111.7	114.9
80°	28.7	35.1	47.9	54.3	67.0	70.2	73.4	76.6	73.4	76.6	76.6
82.5°	22.3	25.5	31.9	31.9	41.5	41.5	44.7	44.7	47.9	47.9	47.9
85°	12.7	22.3	19.1	38.3	25.5	25.5	31.9	38.3	31.9	31.9	38.3
87.5°	12.7	12.7	9.6	12.7	12.7	12.7	15.9	19.1	19.1	22.3	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





TEST NUMBER: P249384

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5946.8	5946.8	5946.8	5946.8
2.5°	5956.4	5962.7	5953.2	5950.0
5°	5965.9	5965.9	5959.6	5959.6
7.5°	5965.9	5965.9	5956.4	5950.0
10°	5940.4	5940.4	5930.9	5924.5
12.5°	5892.5	5892.5	5889.3	5879.8
15°	5831.9	5831.9	5819.1	5809.6
17.5°	5748.9	5755.3	5739.4	5739.4
20°	5659.5	5656.3	5643.6	5637.2
22.5°	5567.0	5560.6	5557.4	5538.2
25°	5468.0	5461.6	5452.0	5442.5
27.5°	5298.8	5295.6	5286.0	5273.3
30°	5040.2	5037.0	5024.3	5024.3
32.5°	4705.1	4701.9	4689.2	4692.4
35°	4357.1	4369.9	4363.5	4350.8
37.5°	4066.7	4076.3	4082.7	4076.3
40°	3824.1	3852.8	3856.0	3862.4
42.5°	3565.5	3603.8	3616.6	3623.0
45°	3255.9	3291.0	3319.8	3313.4
47.5°	2939.9	2965.4	2990.9	2971.8
50°	2636.7	2652.6	2662.2	2662.2
52.5°	2349.4	2349.4	2346.2	2349.4
55°	2020.6	2020.6	2007.8	2014.2
57.5°	1675.8	1682.2	1672.6	1656.7
60°	1356.6	1340.7	1334.3	1324.7
62.5°	1056.6	1056.6	1034.3	1062.9
65°	791.7	782.1	772.5	769.3
67.5°	574.5	571.4	561.8	558.6
70°	405.4	392.6	389.4	383.0
72.5°	271.3	271.3	264.9	264.9
75°	166.0	150.0	146.8	150.0
77.5°	114.9	111.7	111.7	108.6
80°	76.6	73.4	79.8	70.2
82.5°	47.9	51.1	47.9	51.1
85°	31.9	38.3	35.1	35.1
87.5°	19.1	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)