

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: P249513

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249513  
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 ER8B2009730 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14285.0 lumens  
Efficiency: N/A  
Efficacy: 64.0 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

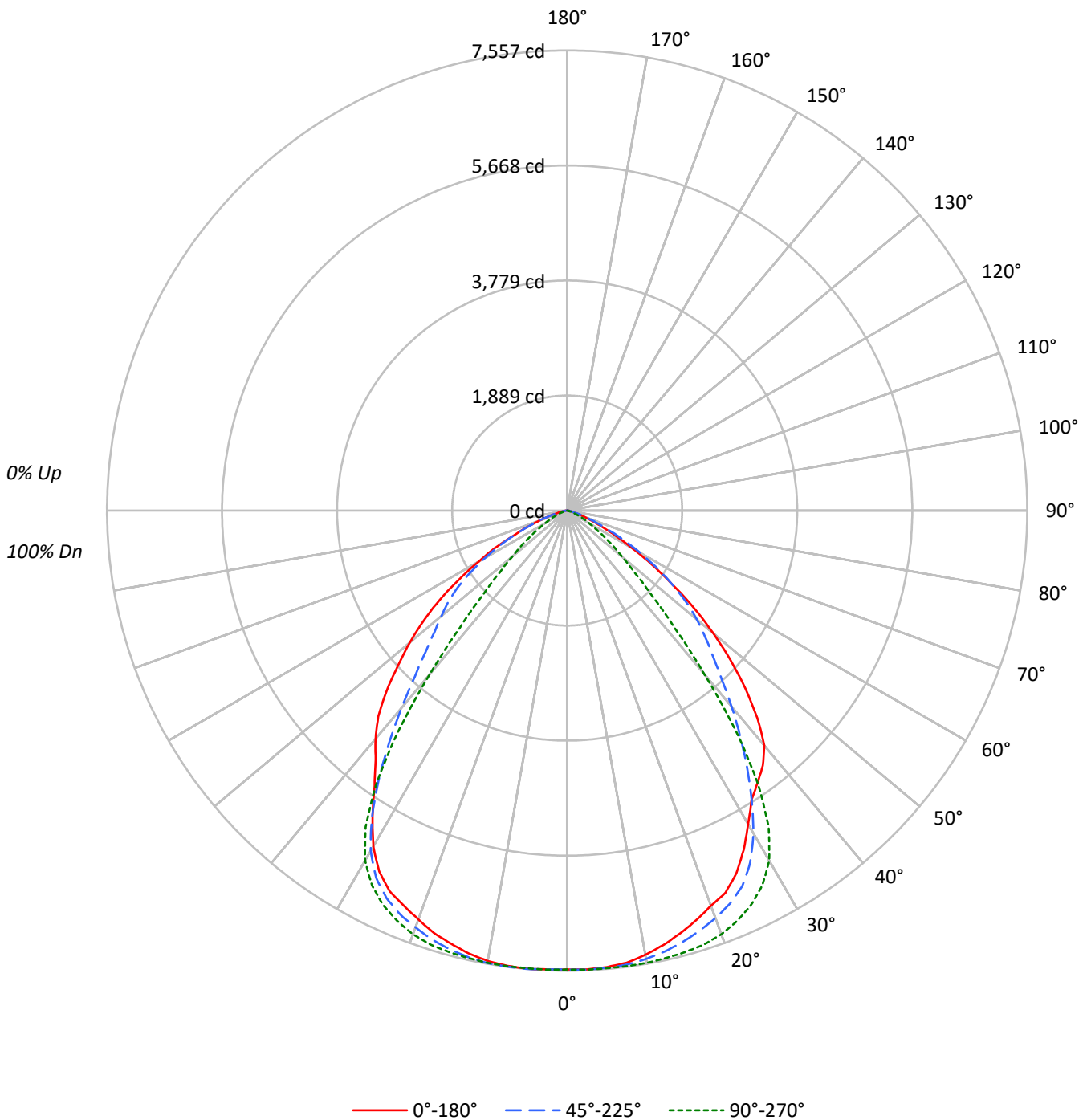
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	719.3	5.0
10°-20°	2089.0	14.6
20°-30°	3170.6	22.2
30°-40°	3330.1	23.3
40°-50°	2496.7	17.5
50°-60°	1601.9	11.2
60°-70°	685.3	4.8
70°-80°	161.9	1.1
80°-90°	30.1	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°	5978.9	41.9
0°-40°	9309.0	65.2
0°-60°	13407.7	93.9
0°-90°	14285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7537	7537	7537	7537	7537	
5°	7525	7537	7545	7557	7553	715
15°	7185	7335	7505	7456	7363	2027
25°	6574	6805	7149	7019	6898	3003
35°	5454	5150	5458	5393	5514	3423
45°	4143	3386	1946	3289	4199	3173
55°	2096	2096	724	2185	2553	1901
65°	631	744	231	959	975	674
75°	97	113	32	194	190	141
85°	32	20	16	32	44	34
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°	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0
2.5°	7541.1	7549.2	7545.2	7545.2	7541.1	7545.2	7545.2	7553.3	7553.3	7545.2	7541.1
5°	7524.9	7533.0	7533.0	7524.9	7524.9	7545.2	7533.0	7541.1	7541.1	7537.0	7537.0
7.5°	7488.5	7488.5	7504.7	7492.6	7492.6	7504.7	7500.6	7508.7	7516.9	7520.9	7520.9
10°	7407.6	7415.7	7419.7	7419.7	7423.8	7435.9	7444.0	7460.2	7468.2	7476.4	7480.4
12.5°	7306.5	7318.6	7322.6	7318.6	7330.7	7346.9	7367.2	7387.4	7399.5	7415.7	7427.9
15°	7185.0	7185.0	7193.2	7205.3	7213.4	7237.7	7257.9	7282.1	7314.5	7334.8	7355.0
17.5°	7051.6	7059.7	7071.8	7071.8	7088.0	7128.4	7140.6	7177.0	7213.4	7233.6	7274.1
20°	6906.0	6914.0	6926.2	6934.3	6954.5	6986.9	7011.1	7043.5	7084.0	7120.4	7160.8
22.5°	6792.6	6776.5	6784.5	6792.6	6812.9	6841.2	6869.6	6909.9	6950.4	6986.9	7027.3
25°	6574.2	6578.2	6590.4	6598.4	6622.8	6647.0	6679.4	6727.9	6764.3	6804.8	6849.3
27.5°	6278.9	6282.9	6303.1	6303.1	6323.3	6363.8	6384.0	6424.5	6473.1	6513.5	6566.1
30°	5943.1	5951.1	5951.1	5967.4	5979.4	5999.7	6019.9	6060.4	6084.7	6121.1	6193.9
32.5°	5635.6	5643.7	5639.6	5635.6	5623.5	5619.4	5615.3	5623.5	5631.6	5643.7	5672.0
35°	5453.6	5433.3	5417.2	5388.8	5356.5	5316.0	5279.6	5231.1	5186.5	5150.1	5109.7
37.5°	5279.6	5275.5	5251.3	5210.8	5146.0	5073.3	4988.3	4883.1	4777.9	4664.6	4555.4
40°	5036.8	5024.7	5004.5	4947.8	4875.0	4786.0	4672.8	4543.3	4373.3	4199.4	4021.4
42.5°	4624.2	4628.2	4604.0	4559.4	4490.7	4405.7	4288.4	4146.8	3964.8	3758.4	3527.8
45°	4142.8	4142.8	4134.6	4098.2	4049.7	3980.9	3891.9	3774.6	3596.6	3386.2	3139.4
47.5°	3641.1	3645.1	3633.0	3624.9	3604.6	3560.2	3495.5	3406.5	3281.0	3078.7	2831.9
50°	3131.4	3131.4	3151.6	3147.5	3147.5	3131.4	3103.1	3050.4	2941.2	2779.4	2548.8
52.5°	2621.6	2629.7	2641.9	2658.0	2678.2	2710.6	2678.2	2653.9	2585.1	2459.7	2261.5
55°	2095.6	2103.7	2123.9	2152.3	2176.6	2209.0	2217.0	2217.0	2180.6	2095.6	1946.0
57.5°	1646.6	1634.4	1650.7	1674.9	1707.3	1739.7	1763.9	1792.2	1788.2	1731.5	1610.2
60°	1238.0	1242.0	1254.1	1278.5	1302.7	1331.0	1363.4	1387.7	1399.8	1371.5	1294.6
62.5°	902.2	902.2	918.3	942.6	954.8	995.3	1015.4	1027.6	1039.7	1035.6	987.1
65°	631.2	639.2	647.3	659.5	671.6	695.8	708.0	732.2	740.4	744.4	708.0
67.5°	445.1	432.9	441.0	449.0	461.2	477.4	501.7	501.7	513.8	513.8	489.5
70°	283.2	283.2	287.3	299.3	307.5	311.5	319.6	327.7	339.8	335.8	335.8
72.5°	190.2	186.1	190.2	194.2	198.3	210.4	210.4	214.4	222.5	226.6	210.4
75°	97.1	101.2	109.2	105.2	117.3	109.2	113.2	125.4	121.4	113.2	113.2
77.5°	80.9	80.9	80.9	76.9	84.9	84.9	80.9	89.0	84.9	84.9	80.9
80°	56.6	60.7	56.6	52.6	56.6	52.6	52.6	52.6	52.6	52.6	48.5
82.5°	44.5	36.4	40.5	36.4	40.5	40.5	36.4	32.4	32.4	36.4	32.4
85°	32.4	24.3	28.3	28.3	24.3	24.3	24.3	24.3	24.3	20.2	20.2
87.5°	20.2	12.2	12.2	12.2	16.1	16.1	16.1	12.2	16.1	16.1	8.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0
2.5°	7549.2	7545.2	7553.3	7549.2	7549.2	7545.2	7549.2	7545.2	7553.3	7537.0	7541.1
5°	7549.2	7541.1	7545.2	7549.2	7553.3	7545.2	7545.2	7545.2	7553.3	7545.2	7549.2
7.5°	7533.0	7528.9	7541.1	7549.2	7545.2	7541.1	7549.2	7545.2	7553.3	7549.2	7557.2
10°	7500.6	7504.7	7512.8	7524.9	7528.9	7533.0	7541.1	7541.1	7553.3	7537.0	7545.2
12.5°	7452.1	7468.2	7488.5	7496.6	7512.8	7512.8	7520.9	7524.9	7533.0	7528.9	7541.1
15°	7391.4	7411.6	7435.9	7456.2	7476.4	7488.5	7500.6	7504.7	7516.9	7504.7	7508.7
17.5°	7318.6	7342.8	7379.3	7403.5	7435.9	7448.1	7464.2	7472.3	7484.5	7476.4	7480.4
20°	7217.4	7245.8	7286.2	7322.6	7342.8	7371.1	7391.4	7403.5	7411.6	7403.5	7407.6
22.5°	7075.8	7116.3	7168.9	7197.2	7237.7	7262.0	7266.0	7294.3	7314.5	7294.3	7302.4
25°	6909.9	6950.4	6990.9	7051.6	7088.0	7116.3	7144.6	7148.7	7168.9	7164.8	7160.8
27.5°	6634.8	6687.5	6756.2	6804.8	6853.3	6897.9	6930.2	6938.3	6958.5	6950.4	6954.5
30°	6258.6	6315.3	6380.0	6456.9	6525.7	6570.1	6610.6	6638.9	6659.1	6647.0	6643.0
32.5°	5724.6	5781.2	5850.0	5926.9	6007.8	6072.5	6121.1	6157.5	6181.8	6173.6	6153.5
35°	5113.8	5129.9	5174.4	5235.1	5303.8	5372.6	5417.2	5457.6	5485.9	5494.0	5494.0
37.5°	4486.6	4434.1	4401.7	4401.7	4442.1	4470.4	4510.9	4535.2	4579.7	4595.8	4608.0
40°	3879.7	3758.4	3645.1	3560.2	3503.6	3499.5	3499.5	3511.6	3552.1	3604.6	3653.2
42.5°	3337.7	3143.4	2969.5	2811.7	2698.5	2633.7	2605.4	2609.5	2641.9	2690.4	2771.2
45°	2904.8	2662.1	2443.6	2253.4	2099.7	1998.5	1950.0	1946.0	1970.2	2026.8	2115.9
47.5°	2569.0	2310.0	2063.3	1844.8	1679.0	1569.7	1513.1	1496.9	1513.1	1565.6	1670.9
50°	2289.9	2022.9	1768.0	1541.4	1363.4	1250.2	1197.5	1177.3	1197.5	1242.0	1347.2
52.5°	2030.9	1755.8	1517.1	1298.7	1108.5	1011.4	954.8	942.6	954.8	1007.3	1092.4
55°	1731.5	1496.9	1262.2	1043.8	877.9	780.8	736.3	724.2	736.3	784.9	873.9
57.5°	1436.3	1233.9	1027.6	829.3	687.8	602.8	562.4	546.1	574.4	606.8	712.0
60°	1161.1	999.3	825.3	651.4	534.1	457.1	424.8	420.7	428.8	469.3	542.1
62.5°	910.3	776.8	639.2	497.6	400.5	368.1	327.7	323.7	331.7	356.0	412.7
65°	655.4	570.5	465.3	364.1	287.3	242.7	226.6	230.6	238.7	254.9	307.5
67.5°	457.1	396.5	323.7	254.9	198.3	178.0	161.8	157.8	161.8	190.2	218.5
70°	307.5	271.0	218.5	194.2	137.6	109.2	113.2	101.2	117.3	117.3	141.6
72.5°	202.2	178.0	145.6	113.2	97.1	76.9	76.9	72.9	80.9	84.9	105.2
75°	105.2	80.9	80.9	56.6	40.5	20.2	36.4	32.4	28.3	32.4	40.5
77.5°	72.9	60.7	56.6	44.5	40.5	32.4	32.4	32.4	32.4	36.4	40.5
80°	44.5	44.5	32.4	28.3	24.3	20.2	24.3	24.3	24.3	24.3	28.3
82.5°	28.3	24.3	24.3	20.2	20.2	16.1	16.1	16.1	16.1	16.1	24.3
85°	24.3	16.1	16.1	12.2	16.1	28.3	12.2	16.1	16.1	16.1	12.2
87.5°	8.1	12.2	12.2	12.2	8.1	4.1	8.1	12.2	12.2	20.2	16.1
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°	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0	7537.0
2.5°	7549.2	7553.3	7553.3	7549.2	7549.2	7541.1	7557.2	7545.2	7549.2	7565.4	7553.3
5°	7557.2	7561.3	7561.3	7557.2	7557.2	7557.2	7561.3	7561.3	7557.2	7553.3	7561.3
7.5°	7573.5	7569.4	7569.4	7561.3	7561.3	7553.3	7561.3	7549.2	7557.2	7549.2	7561.3
10°	7553.3	7557.2	7553.3	7549.2	7549.2	7545.2	7545.2	7533.0	7537.0	7524.9	7533.0
12.5°	7541.1	7537.0	7537.0	7528.9	7520.9	7512.8	7508.7	7496.6	7496.6	7468.2	7480.4
15°	7508.7	7512.8	7500.6	7484.5	7476.4	7456.2	7448.1	7431.8	7415.7	7395.5	7399.5
17.5°	7480.4	7468.2	7452.1	7435.9	7403.5	7387.4	7371.1	7346.9	7338.8	7314.5	7306.5
20°	7395.5	7387.4	7367.2	7338.8	7318.6	7282.1	7266.0	7241.8	7221.5	7197.2	7185.0
22.5°	7286.2	7278.1	7253.8	7225.5	7193.2	7177.0	7160.8	7116.3	7096.0	7071.8	7067.7
25°	7148.7	7136.5	7112.3	7079.9	7063.7	7019.2	7003.0	6970.6	6962.6	6938.3	6934.3
27.5°	6938.3	6922.1	6893.8	6853.3	6825.0	6796.7	6780.6	6756.2	6748.2	6723.8	6719.9
30°	6622.8	6602.5	6545.9	6529.7	6481.1	6452.8	6452.8	6420.4	6424.5	6408.4	6408.4
32.5°	6125.1	6092.8	6048.2	6015.9	5983.5	5967.4	5967.4	5955.2	5963.3	5963.3	5971.4
35°	5465.7	5421.2	5396.9	5376.7	5376.7	5392.8	5441.4	5453.6	5477.8	5498.0	5514.3
37.5°	4620.1	4616.1	4644.4	4668.7	4729.4	4798.2	4883.1	4956.0	5024.7	5073.3	5121.8
40°	3705.8	3807.0	3887.9	4001.2	4094.2	4227.7	4381.4	4506.8	4624.2	4709.2	4798.2
42.5°	2892.6	3022.1	3192.1	3357.9	3523.8	3705.8	3908.1	4082.1	4235.8	4353.1	4446.2
45°	2253.4	2431.4	2637.8	2848.2	3062.6	3289.2	3499.5	3677.5	3839.4	3960.7	4053.8
47.5°	1816.5	2010.7	2245.3	2476.0	2718.7	2957.3	3192.1	3345.8	3479.2	3576.3	3661.4
50°	1500.9	1707.3	1954.1	2217.0	2459.7	2698.5	2900.7	3050.4	3159.7	3244.6	3297.2
52.5°	1254.1	1472.6	1735.6	1998.5	2241.2	2459.7	2641.9	2755.1	2844.1	2904.8	2953.3
55°	1035.6	1246.1	1492.9	1739.7	1978.3	2184.6	2334.3	2419.3	2488.0	2524.5	2552.8
57.5°	845.6	1039.7	1266.3	1492.9	1699.2	1869.1	1986.4	2071.4	2103.7	2132.1	2128.0
60°	663.5	845.6	1051.9	1246.1	1424.1	1561.6	1646.6	1695.1	1719.4	1731.5	1723.4
62.5°	521.9	687.8	845.6	1015.4	1144.9	1262.2	1343.2	1343.2	1355.3	1359.3	1371.5
65°	388.3	513.8	651.4	776.8	881.9	958.8	1003.4	1015.4	1031.7	1027.6	1019.5
67.5°	287.3	380.3	481.4	574.4	647.3	695.8	728.2	756.6	752.5	744.4	740.4
70°	198.3	259.0	348.0	404.6	457.1	505.7	513.8	517.8	521.9	525.9	517.8
72.5°	137.6	182.0	230.6	279.2	311.5	331.7	352.0	356.0	356.0	356.0	352.0
75°	68.8	93.1	137.6	157.8	186.1	194.2	210.4	210.4	222.5	206.3	202.2
77.5°	60.7	72.9	97.1	113.2	125.4	137.6	141.6	153.7	149.7	141.6	145.6
80°	36.4	44.5	60.7	68.8	84.9	89.0	93.1	97.1	93.1	97.1	97.1
82.5°	28.3	32.4	40.5	40.5	52.6	52.6	56.6	56.6	60.7	60.7	60.7
85°	16.1	28.3	24.3	48.5	32.4	32.4	40.5	48.5	40.5	40.5	48.5
87.5°	16.1	16.1	12.2	16.1	16.1	16.1	20.2	24.3	24.3	28.3	24.3
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: P249513

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	7537.0	7537.0	7537.0	7537.0
2.5°	7549.2	7557.2	7545.2	7541.1
5°	7561.3	7561.3	7553.3	7553.3
7.5°	7561.3	7561.3	7549.2	7541.1
10°	7528.9	7528.9	7516.9	7508.7
12.5°	7468.2	7468.2	7464.2	7452.1
15°	7391.4	7391.4	7375.2	7363.1
17.5°	7286.2	7294.3	7274.1	7274.1
20°	7173.0	7168.9	7152.8	7144.6
22.5°	7055.7	7047.5	7043.5	7019.2
25°	6930.2	6922.1	6909.9	6897.9
27.5°	6715.8	6711.8	6699.6	6683.4
30°	6388.1	6384.0	6367.9	6367.9
32.5°	5963.3	5959.2	5943.1	5947.2
35°	5522.3	5538.5	5530.4	5514.3
37.5°	5154.1	5166.3	5174.4	5166.3
40°	4846.7	4883.1	4887.2	4895.3
42.5°	4519.0	4567.5	4583.8	4591.8
45°	4126.5	4171.1	4207.5	4199.4
47.5°	3726.0	3758.4	3790.7	3766.5
50°	3341.7	3361.9	3374.1	3374.1
52.5°	2977.6	2977.6	2973.6	2977.6
55°	2560.9	2560.9	2544.8	2552.8
57.5°	2123.9	2132.1	2119.9	2099.7
60°	1719.4	1699.2	1691.1	1679.0
62.5°	1339.1	1339.1	1310.8	1347.2
65°	1003.4	991.2	979.0	975.0
67.5°	728.2	724.2	712.0	708.0
70°	513.8	497.6	493.6	485.5
72.5°	343.9	343.9	335.8	335.8
75°	210.4	190.2	186.1	190.2
77.5°	145.6	141.6	141.6	137.6
80°	97.1	93.1	101.2	89.0
82.5°	60.7	64.7	60.7	64.7
85°	40.5	48.5	44.5	44.5
87.5°	24.3	24.3	24.3	24.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)