

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: P249297

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249297  
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 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16059.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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

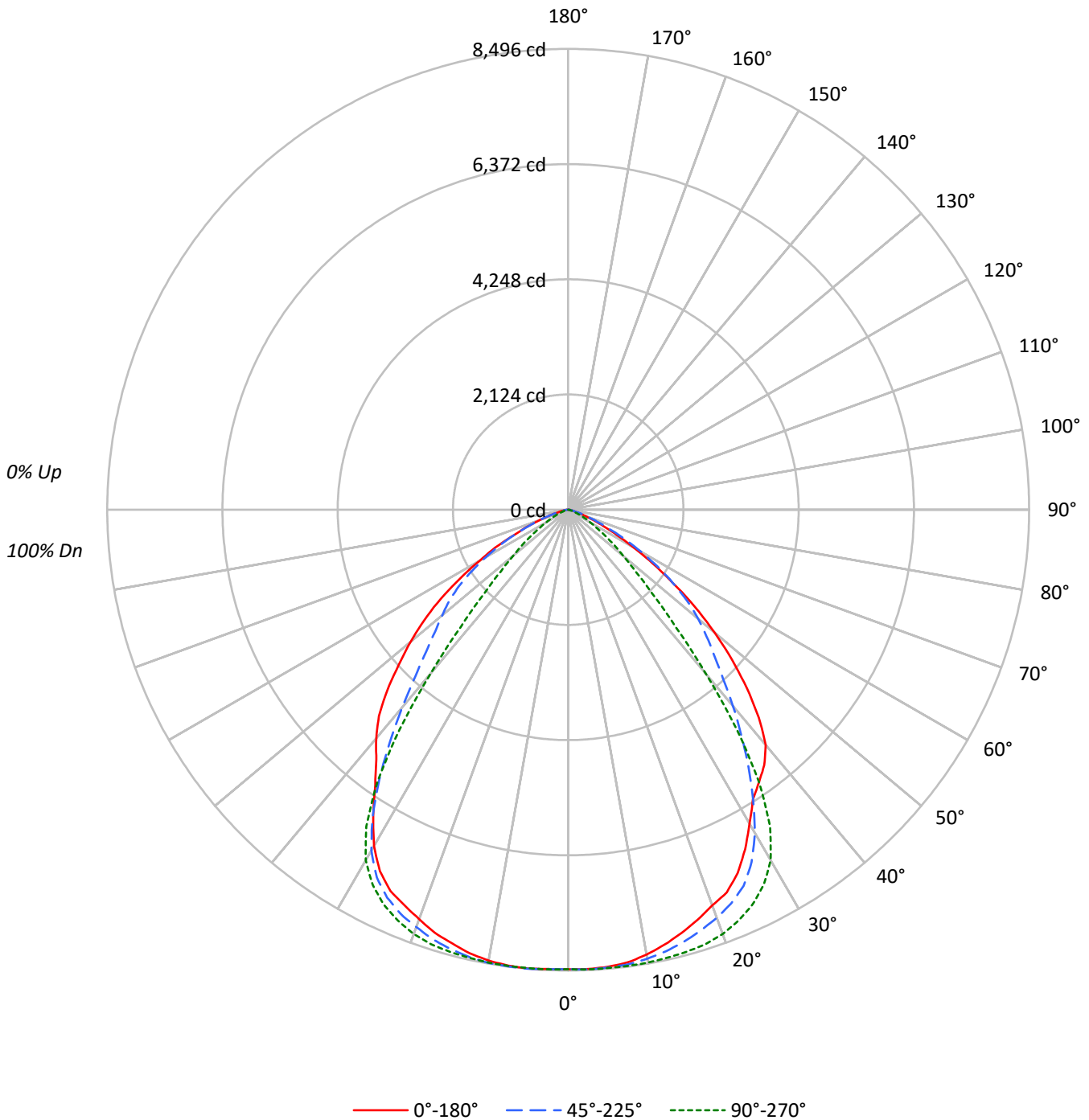
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	808.6	5.0
10°-20°	2348.4	14.6
20°-30°	3564.4	22.2
30°-40°	3743.7	23.3
40°-50°	2806.8	17.5
50°-60°	1800.9	11.2
60°-70°	770.4	4.8
70°-80°	182.0	1.1
80°-90°	33.9	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°	6721.4	41.9
0°-40°	10465.1	65.2
0°-60°	15072.7	93.9
0°-90°	16059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16059.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8473	8473	8473	8473	8473	
5°	8459	8473	8482	8496	8491	804
15°	8077	8246	8437	8382	8278	2278
25°	7391	7650	8036	7891	7754	3376
35°	6131	5790	6135	6062	6199	3848
45°	4657	3807	2188	3698	4721	3567
55°	2356	2356	814	2456	2870	2137
65°	710	837	259	1078	1096	757
75°	109	127	36	218	214	159
85°	36	23	18	36	50	38
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°	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0
2.5°	8477.6	8486.7	8482.2	8482.2	8477.6	8482.2	8482.2	8491.3	8491.3	8482.2	8477.6
5°	8459.4	8468.5	8468.5	8459.4	8459.4	8482.2	8468.5	8477.6	8477.6	8473.0	8473.0
7.5°	8418.5	8418.5	8436.7	8423.1	8423.1	8436.7	8432.1	8441.2	8450.3	8454.9	8454.9
10°	8327.5	8336.6	8341.2	8341.2	8345.7	8359.3	8368.4	8386.7	8395.7	8404.8	8409.4
12.5°	8213.9	8227.4	8232.0	8227.4	8241.1	8259.3	8282.1	8304.8	8318.5	8336.6	8350.3
15°	8077.3	8077.3	8086.4	8100.1	8109.3	8136.5	8159.2	8186.5	8222.9	8245.7	8268.4
17.5°	7927.3	7936.4	7950.0	7950.0	7968.3	8013.7	8027.4	8068.3	8109.3	8132.0	8177.5
20°	7763.6	7772.6	7786.3	7795.4	7818.1	7854.5	7881.8	7918.2	7963.7	8004.6	8050.1
22.5°	7636.2	7618.0	7627.1	7636.2	7659.0	7690.8	7722.7	7768.1	7813.6	7854.5	7900.0
25°	7390.6	7395.1	7408.8	7417.9	7445.2	7472.5	7508.9	7563.4	7604.4	7649.9	7699.8
27.5°	7058.6	7063.2	7085.9	7085.9	7108.6	7154.1	7176.8	7222.3	7277.0	7322.4	7381.6
30°	6681.1	6690.2	6690.2	6708.4	6722.0	6744.8	6767.5	6813.0	6840.3	6881.2	6963.1
32.5°	6335.5	6344.5	6340.0	6335.5	6321.8	6317.3	6312.7	6321.8	6330.9	6344.5	6376.3
35°	6130.8	6108.0	6089.9	6058.1	6021.7	5976.2	5935.2	5880.7	5830.6	5789.7	5744.2
37.5°	5935.2	5930.7	5903.4	5857.9	5785.1	5703.3	5607.8	5489.5	5371.2	5243.9	5121.2
40°	5662.3	5648.7	5626.0	5562.3	5480.4	5380.4	5253.0	5107.5	4916.4	4720.9	4520.8
42.5°	5198.4	5203.0	5175.7	5125.6	5048.4	4952.8	4820.9	4661.8	4457.1	4225.1	3965.9
45°	4657.2	4657.2	4648.1	4607.2	4552.6	4475.3	4375.2	4243.4	4043.3	3806.7	3529.3
47.5°	4093.2	4097.8	4084.1	4075.1	4052.3	4002.3	3929.5	3829.5	3688.5	3461.0	3183.6
50°	3520.2	3520.2	3542.9	3538.4	3538.4	3520.2	3488.4	3429.2	3306.5	3124.5	2865.3
52.5°	2947.1	2956.3	2969.9	2988.1	3010.8	3047.2	3010.8	2983.5	2906.2	2765.2	2542.4
55°	2355.9	2365.0	2387.7	2419.5	2446.9	2483.3	2492.3	2492.3	2451.4	2355.9	2187.6
57.5°	1851.1	1837.4	1855.7	1882.9	1919.3	1955.7	1983.0	2014.8	2010.2	1946.6	1810.1
60°	1391.7	1396.3	1409.9	1437.2	1464.5	1496.3	1532.7	1560.0	1573.7	1541.8	1455.4
62.5°	1014.2	1014.2	1032.4	1059.6	1073.3	1118.8	1141.6	1155.2	1168.8	1164.3	1109.7
65°	709.5	718.6	727.7	741.4	755.0	782.2	795.9	823.2	832.3	836.9	795.9
67.5°	500.3	486.6	495.8	504.8	518.5	536.7	564.0	564.0	577.6	577.6	550.3
70°	318.4	318.4	322.9	336.5	345.6	350.2	359.3	368.4	382.0	377.5	377.5
72.5°	213.8	209.2	213.8	218.3	222.9	236.5	236.5	241.0	250.2	254.7	236.5
75°	109.2	113.7	122.7	118.3	131.9	122.7	127.3	141.0	136.4	127.3	127.3
77.5°	90.9	90.9	90.9	86.5	95.5	95.5	90.9	100.0	95.5	95.5	90.9
80°	63.7	68.2	63.7	59.1	63.7	59.1	59.1	59.1	59.1	59.1	54.5
82.5°	50.1	41.0	45.5	41.0	45.5	45.5	41.0	36.4	36.4	41.0	36.4
85°	36.4	27.3	31.8	31.8	27.3	27.3	27.3	27.3	27.3	22.7	22.7
87.5°	22.7	13.7	13.7	13.7	18.1	18.1	18.1	13.7	18.1	18.1	9.1
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°	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0
2.5°	8486.7	8482.2	8491.3	8486.7	8486.7	8482.2	8486.7	8482.2	8491.3	8473.0	8477.6
5°	8486.7	8477.6	8482.2	8486.7	8491.3	8482.2	8482.2	8482.2	8491.3	8482.2	8486.7
7.5°	8468.5	8463.9	8477.6	8486.7	8482.2	8477.6	8486.7	8482.2	8491.3	8486.7	8495.7
10°	8432.1	8436.7	8445.8	8459.4	8463.9	8468.5	8477.6	8477.6	8491.3	8473.0	8482.2
12.5°	8377.6	8395.7	8418.5	8427.5	8445.8	8445.8	8454.9	8459.4	8468.5	8463.9	8477.6
15°	8309.3	8332.0	8359.3	8382.1	8404.8	8418.5	8432.1	8436.7	8450.3	8436.7	8441.2
17.5°	8227.4	8254.7	8295.7	8322.9	8359.3	8373.0	8391.1	8400.3	8414.0	8404.8	8409.4
20°	8113.7	8145.6	8191.1	8232.0	8254.7	8286.5	8309.3	8322.9	8332.0	8322.9	8327.5
22.5°	7954.6	8000.1	8059.2	8091.0	8136.5	8163.8	8168.3	8200.2	8222.9	8200.2	8209.3
25°	7768.1	7813.6	7859.1	7927.3	7968.3	8000.1	8031.9	8036.5	8059.2	8054.6	8050.1
27.5°	7458.8	7518.0	7595.2	7649.9	7704.4	7754.5	7790.9	7799.9	7822.7	7813.6	7818.1
30°	7035.8	7099.6	7172.4	7258.7	7336.1	7386.0	7431.5	7463.4	7486.1	7472.5	7467.9
32.5°	6435.5	6499.2	6576.5	6662.9	6753.9	6826.6	6881.2	6922.2	6949.5	6940.3	6917.6
35°	5748.8	5767.0	5817.0	5885.2	5962.5	6039.8	6089.9	6135.3	6167.1	6176.3	6176.3
37.5°	5043.8	4984.7	4948.3	4948.3	4993.8	5025.6	5071.1	5098.4	5148.4	5166.6	5180.3
40°	4361.6	4225.1	4097.8	4002.3	3938.7	3934.1	3934.1	3947.7	3993.2	4052.3	4106.9
42.5°	3752.2	3533.8	3338.3	3160.9	3033.6	2960.8	2929.0	2933.6	2969.9	3024.5	3115.4
45°	3265.5	2992.6	2747.0	2533.3	2360.4	2246.7	2192.2	2187.6	2214.9	2278.5	2378.7
47.5°	2888.0	2596.9	2319.5	2073.9	1887.5	1764.6	1701.0	1682.8	1701.0	1760.1	1878.4
50°	2574.2	2274.1	1987.5	1732.8	1532.7	1405.4	1346.2	1323.5	1346.2	1396.3	1514.5
52.5°	2283.1	1973.8	1705.5	1459.9	1246.2	1137.0	1073.3	1059.6	1073.3	1132.4	1228.0
55°	1946.6	1682.8	1419.0	1173.4	987.0	877.8	827.7	814.2	827.7	882.4	982.4
57.5°	1614.6	1387.2	1155.2	932.3	773.2	677.6	632.2	614.0	645.8	682.2	800.5
60°	1305.3	1123.4	927.8	732.2	600.4	513.9	477.5	473.0	482.1	527.6	609.4
62.5°	1023.4	873.2	718.6	559.4	450.3	413.9	368.4	363.9	372.9	400.2	463.9
65°	736.8	641.3	523.0	409.3	322.9	272.9	254.7	259.3	268.3	286.6	345.6
67.5°	513.9	445.7	363.9	286.6	222.9	200.1	181.9	177.4	181.9	213.8	245.6
70°	345.6	304.7	245.6	218.3	154.7	122.7	127.3	113.7	131.9	131.9	159.1
72.5°	227.4	200.1	163.7	127.3	109.2	86.5	86.5	81.9	90.9	95.5	118.3
75°	118.3	90.9	90.9	63.7	45.5	22.7	41.0	36.4	31.8	36.4	45.5
77.5°	81.9	68.2	63.7	50.1	45.5	36.4	36.4	36.4	36.4	41.0	45.5
80°	50.1	50.1	36.4	31.8	27.3	22.7	27.3	27.3	27.3	27.3	31.8
82.5°	31.8	27.3	27.3	22.7	22.7	18.1	18.1	18.1	18.1	18.1	27.3
85°	27.3	18.1	18.1	13.7	18.1	31.8	13.7	18.1	18.1	18.1	13.7
87.5°	9.1	13.7	13.7	13.7	9.1	4.6	9.1	13.7	13.7	22.7	18.1
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°	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0	8473.0
2.5°	8486.7	8491.3	8491.3	8486.7	8486.7	8477.6	8495.7	8482.2	8486.7	8504.9	8491.3
5°	8495.7	8500.3	8500.3	8495.7	8495.7	8495.7	8500.3	8500.3	8495.7	8491.3	8500.3
7.5°	8514.0	8509.4	8509.4	8500.3	8500.3	8491.3	8500.3	8486.7	8495.7	8486.7	8500.3
10°	8491.3	8495.7	8491.3	8486.7	8486.7	8482.2	8482.2	8468.5	8473.0	8459.4	8468.5
12.5°	8477.6	8473.0	8473.0	8463.9	8454.9	8445.8	8441.2	8427.5	8427.5	8395.7	8409.4
15°	8441.2	8445.8	8432.1	8414.0	8404.8	8382.1	8373.0	8354.8	8336.6	8313.9	8318.5
17.5°	8409.4	8395.7	8377.6	8359.3	8322.9	8304.8	8286.5	8259.3	8250.1	8222.9	8213.9
20°	8313.9	8304.8	8282.1	8250.1	8227.4	8186.5	8168.3	8141.1	8118.3	8091.0	8077.3
22.5°	8191.1	8181.9	8154.7	8122.8	8086.4	8068.3	8050.1	8000.1	7977.3	7950.0	7945.4
25°	8036.5	8022.8	7995.5	7959.1	7940.9	7890.9	7872.7	7836.3	7827.3	7799.9	7795.4
27.5°	7799.9	7781.7	7749.9	7704.4	7672.6	7640.8	7622.6	7595.2	7586.2	7558.8	7554.4
30°	7445.2	7422.4	7358.8	7340.6	7286.0	7254.2	7254.2	7217.8	7222.3	7204.2	7204.2
32.5°	6885.8	6849.4	6799.3	6762.9	6726.6	6708.4	6708.4	6694.7	6703.9	6703.9	6713.0
35°	6144.4	6094.5	6067.1	6044.4	6044.4	6062.5	6117.2	6130.8	6158.1	6180.8	6199.1
37.5°	5193.8	5189.4	5221.2	5248.5	5316.7	5394.0	5489.5	5571.4	5648.7	5703.3	5757.8
40°	4166.0	4279.8	4370.7	4498.1	4602.6	4752.7	4925.5	5066.5	5198.4	5294.0	5394.0
42.5°	3251.8	3397.4	3588.5	3774.9	3961.4	4166.0	4393.5	4589.0	4761.8	4893.7	4998.3
45°	2533.3	2733.4	2965.4	3201.9	3442.9	3697.6	3934.1	4134.2	4316.1	4452.6	4557.2
47.5°	2042.1	2260.4	2524.1	2783.4	3056.3	3324.6	3588.5	3761.3	3911.3	4020.5	4116.1
50°	1687.3	1919.3	2196.7	2492.3	2765.2	3033.6	3261.0	3429.2	3552.1	3647.6	3706.6
52.5°	1409.9	1655.5	1951.1	2246.7	2519.6	2765.2	2969.9	3097.3	3197.3	3265.5	3320.0
55°	1164.3	1400.8	1678.3	1955.7	2224.0	2455.9	2624.2	2719.8	2797.0	2838.0	2869.8
57.5°	950.6	1168.8	1423.5	1678.3	1910.2	2101.3	2233.1	2328.6	2365.0	2396.8	2392.3
60°	745.9	950.6	1182.5	1400.8	1600.9	1755.5	1851.1	1905.6	1932.9	1946.6	1937.5
62.5°	586.7	773.2	950.6	1141.6	1287.1	1419.0	1510.0	1510.0	1523.6	1528.2	1541.8
65°	436.6	577.6	732.2	873.2	991.4	1077.9	1128.0	1141.6	1159.8	1155.2	1146.1
67.5°	322.9	427.6	541.2	645.8	727.7	782.2	818.6	850.5	846.0	836.9	832.3
70°	222.9	291.1	391.2	454.8	513.9	568.5	577.6	582.1	586.7	591.3	582.1
72.5°	154.7	204.7	259.3	313.8	350.2	372.9	395.7	400.2	400.2	400.2	395.7
75°	77.3	104.6	154.7	177.4	209.2	218.3	236.5	236.5	250.2	231.9	227.4
77.5°	68.2	81.9	109.2	127.3	141.0	154.7	159.1	172.8	168.3	159.1	163.7
80°	41.0	50.1	68.2	77.3	95.5	100.0	104.6	109.2	104.6	109.2	109.2
82.5°	31.8	36.4	45.5	45.5	59.1	59.1	63.7	63.7	68.2	68.2	68.2
85°	18.1	31.8	27.3	54.5	36.4	36.4	45.5	54.5	45.5	45.5	54.5
87.5°	18.1	18.1	13.7	18.1	18.1	18.1	22.7	27.3	27.3	31.8	27.3
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: P249297

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8473.0	8473.0	8473.0	8473.0
2.5°	8486.7	8495.7	8482.2	8477.6
5°	8500.3	8500.3	8491.3	8491.3
7.5°	8500.3	8500.3	8486.7	8477.6
10°	8463.9	8463.9	8450.3	8441.2
12.5°	8395.7	8395.7	8391.1	8377.6
15°	8309.3	8309.3	8291.1	8277.5
17.5°	8191.1	8200.2	8177.5	8177.5
20°	8063.7	8059.2	8041.0	8031.9
22.5°	7931.9	7922.7	7918.2	7890.9
25°	7790.9	7781.7	7768.1	7754.5
27.5°	7549.8	7545.3	7531.6	7513.4
30°	7181.4	7176.8	7158.7	7158.7
32.5°	6703.9	6699.3	6681.1	6685.7
35°	6208.1	6226.3	6217.2	6199.1
37.5°	5794.2	5807.9	5817.0	5807.9
40°	5448.6	5489.5	5494.1	5503.2
42.5°	5080.2	5134.8	5153.0	5162.0
45°	4639.0	4689.1	4730.0	4720.9
47.5°	4188.7	4225.1	4261.5	4234.2
50°	3756.7	3779.4	3793.1	3793.1
52.5°	3347.4	3347.4	3342.9	3347.4
55°	2878.9	2878.9	2860.8	2869.8
57.5°	2387.7	2396.8	2383.1	2360.4
60°	1932.9	1910.2	1901.1	1887.5
62.5°	1505.4	1505.4	1473.6	1514.5
65°	1128.0	1114.3	1100.6	1096.0
67.5°	818.6	814.2	800.5	795.9
70°	577.6	559.4	554.9	545.7
72.5°	386.6	386.6	377.5	377.5
75°	236.5	213.8	209.2	213.8
77.5°	163.7	159.1	159.1	154.7
80°	109.2	104.6	113.7	100.0
82.5°	68.2	72.8	68.2	72.8
85°	45.5	54.5	50.1	50.1
87.5°	27.3	27.3	27.3	27.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)