

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: P249477

Luminaire Tested: **LD8B200D010 ER8B200935 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249477
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 ER8B200935 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16537.0 lumens
Efficiency: N/A
Efficacy: 74.1 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

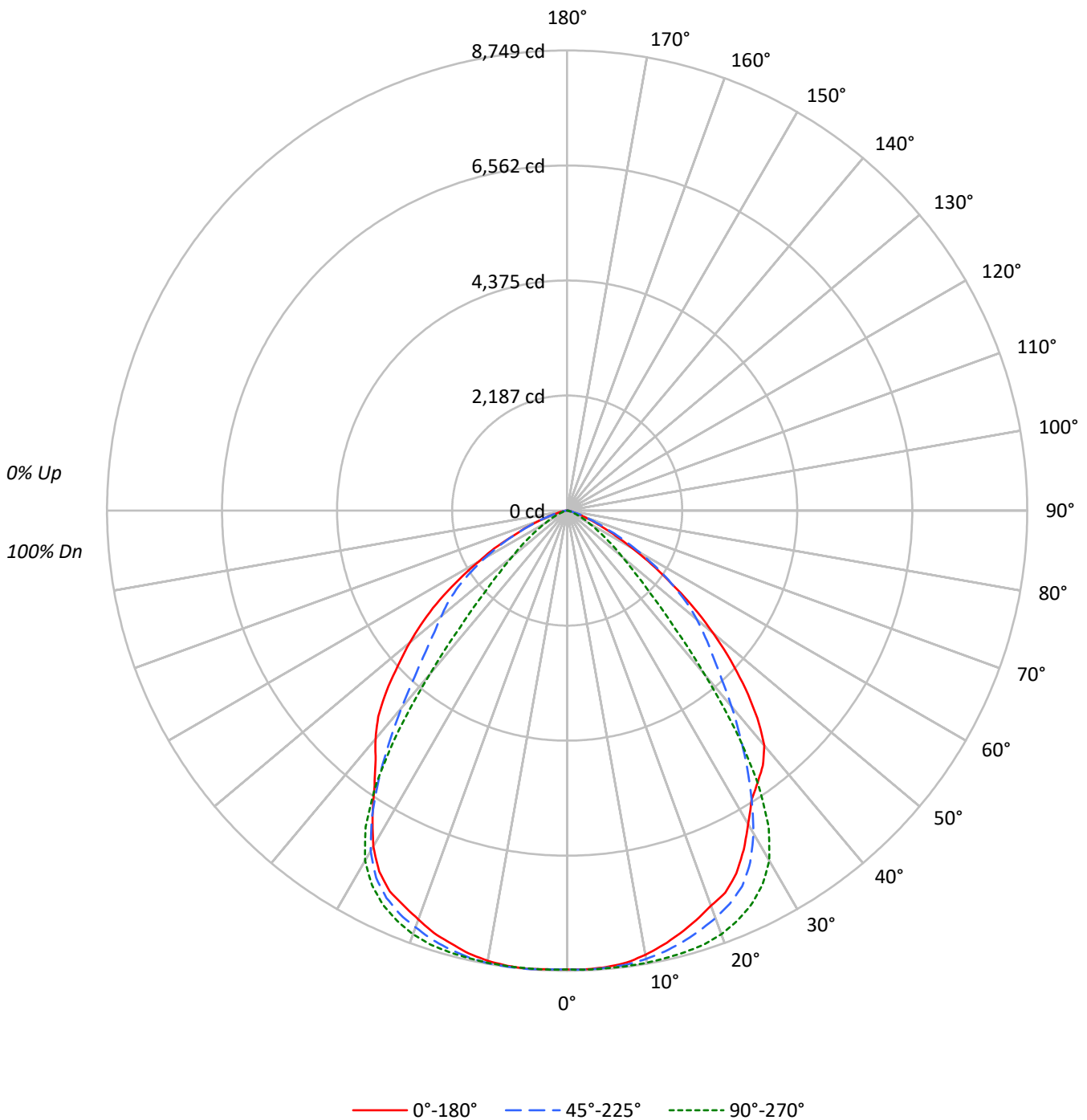
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	269053	269053	269053
5°	269647	270372	270663
10°	268513	273351	272180
15°	265535	277350	272118
20°	262349	281250	271416
25°	258944	281573	271693
30°	244974	273655	262482
35°	237659	237832	240305
40°	234717	163640	228119
45°	209145	98238	212001
50°	173901	65382	187382
55°	130425	45074	158876
60°	88383	30035	119873
65°	53315	19482	82356
70°	29563	10558	50670
75°	13392	4468	26223
80°	11631	4990	18291
85°	13268	6616	18256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.7	5.0
10°-20°	2418.3	14.6
20°-30°	3670.5	22.2
30°-40°	3855.1	23.3
40°-50°	2890.3	17.5
50°-60°	1854.5	11.2
60°-70°	793.3	4.8
70°-80°	187.4	1.1
80°-90°	34.9	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°	6921.5	41.9
0°-40°	10776.6	65.2
0°-60°	15521.4	93.9
0°-90°	16537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16537.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8725	8725	8725	8725	8725	
5°	8711	8725	8735	8749	8744	827
15°	8318	8491	8688	8632	8524	2346
25°	7611	7878	8276	8126	7985	3477
35°	6313	5962	6318	6243	6384	3962
45°	4796	3920	2253	3808	4861	3673
55°	2426	2426	838	2529	2955	2201
65°	731	862	267	1110	1129	780
75°	112	131	38	225	220	164
85°	38	23	19	38	52	40
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°	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2
2.5°	8729.9	8739.3	8734.6	8734.6	8729.9	8734.6	8734.6	8744.0	8744.0	8734.6	8729.9
5°	8711.2	8720.5	8720.5	8711.2	8711.2	8734.6	8720.5	8729.9	8729.9	8725.2	8725.2
7.5°	8669.1	8669.1	8687.8	8673.8	8673.8	8687.8	8683.1	8692.5	8701.9	8706.6	8706.6
10°	8575.4	8584.8	8589.4	8589.4	8594.1	8608.1	8617.5	8636.3	8645.6	8655.0	8659.7
12.5°	8458.3	8472.3	8477.0	8472.3	8486.4	8505.1	8528.6	8552.0	8566.1	8584.8	8598.8
15°	8317.7	8317.7	8327.1	8341.2	8350.6	8378.7	8402.1	8430.2	8467.6	8491.1	8514.5
17.5°	8163.3	8172.7	8186.6	8186.6	8205.4	8252.2	8266.3	8308.5	8350.6	8374.0	8420.9
20°	7994.7	8004.0	8018.1	8027.5	8050.8	8088.3	8116.4	8153.9	8200.7	8242.9	8289.7
22.5°	7863.5	7844.8	7854.1	7863.5	7887.0	7919.7	7952.5	7999.3	8046.1	8088.3	8135.2
25°	7610.6	7615.3	7629.4	7638.6	7666.8	7694.9	7732.4	7788.5	7830.7	7877.6	7929.0
27.5°	7268.7	7273.4	7296.8	7296.8	7320.2	7367.1	7390.4	7437.3	7493.6	7540.3	7601.3
30°	6880.0	6889.3	6889.3	6908.1	6922.1	6945.6	6968.9	7015.8	7043.9	7086.1	7170.4
32.5°	6524.1	6533.4	6528.7	6524.1	6510.0	6505.3	6500.6	6510.0	6519.4	6533.4	6566.1
35°	6313.3	6289.8	6271.2	6238.4	6200.9	6154.0	6111.9	6055.7	6004.2	5962.0	5915.2
37.5°	6111.9	6107.2	6079.1	6032.2	5957.3	5873.1	5774.7	5652.9	5531.1	5400.0	5273.6
40°	5830.9	5816.8	5793.4	5727.9	5643.5	5540.5	5409.4	5259.5	5062.8	4861.4	4655.4
42.5°	5353.1	5357.8	5329.8	5278.2	5198.7	5100.2	4964.4	4800.6	4589.8	4350.9	4084.0
45°	4795.9	4795.9	4786.5	4744.3	4688.1	4608.5	4505.5	4369.7	4163.6	3920.0	3634.3
47.5°	4215.1	4219.8	4205.7	4196.4	4172.9	4121.5	4046.5	3943.5	3798.3	3564.1	3278.4
50°	3625.0	3625.0	3648.4	3643.7	3643.7	3625.0	3592.2	3531.3	3404.9	3217.5	2950.6
52.5°	3034.9	3044.2	3058.3	3077.0	3100.4	3137.9	3100.4	3072.3	2992.7	2847.5	2618.1
55°	2426.0	2435.4	2458.8	2491.6	2519.7	2557.2	2566.5	2566.5	2524.3	2426.0	2252.7
57.5°	1906.2	1892.1	1910.9	1939.0	1976.4	2013.9	2042.0	2074.8	2070.1	2004.5	1864.0
60°	1433.1	1437.8	1451.8	1480.0	1508.1	1540.9	1578.3	1606.4	1620.5	1587.7	1498.7
62.5°	1044.4	1044.4	1063.1	1091.2	1105.3	1152.1	1175.5	1189.6	1203.6	1198.9	1142.8
65°	730.7	739.9	749.3	763.4	777.4	805.5	819.6	847.7	857.1	861.8	819.6
67.5°	515.2	501.1	510.5	519.8	533.9	552.7	580.8	580.8	594.8	594.8	566.7
70°	327.9	327.9	332.6	346.5	355.9	360.6	370.0	379.3	393.4	388.7	388.7
72.5°	220.1	215.4	220.1	224.8	229.5	243.5	243.5	248.2	257.6	262.3	243.5
75°	112.4	117.1	126.4	121.8	135.8	126.4	131.1	145.2	140.5	131.1	131.1
77.5°	93.6	93.6	93.6	89.0	98.3	98.3	93.6	103.0	98.3	98.3	93.6
80°	65.5	70.2	65.5	60.9	65.5	60.9	60.9	60.9	60.9	60.9	56.2
82.5°	51.6	42.2	46.9	42.2	46.9	46.9	42.2	37.5	37.5	42.2	37.5
85°	37.5	28.1	32.8	32.8	28.1	28.1	28.1	28.1	28.1	23.4	23.4
87.5°	23.4	14.1	14.1	14.1	18.7	18.7	18.7	14.1	18.7	18.7	9.4
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°	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2
2.5°	8739.3	8734.6	8744.0	8739.3	8739.3	8734.6	8739.3	8734.6	8744.0	8725.2	8729.9
5°	8739.3	8729.9	8734.6	8739.3	8744.0	8734.6	8734.6	8734.6	8744.0	8734.6	8739.3
7.5°	8720.5	8715.9	8729.9	8739.3	8734.6	8729.9	8739.3	8734.6	8744.0	8739.3	8748.6
10°	8683.1	8687.8	8697.2	8711.2	8715.9	8720.5	8729.9	8729.9	8744.0	8725.2	8734.6
12.5°	8626.9	8645.6	8669.1	8678.4	8697.2	8697.2	8706.6	8711.2	8720.5	8715.9	8729.9
15°	8556.7	8580.1	8608.1	8631.6	8655.0	8669.1	8683.1	8687.8	8701.9	8687.8	8692.5
17.5°	8472.3	8500.4	8542.6	8570.7	8608.1	8622.2	8640.9	8650.3	8664.4	8655.0	8659.7
20°	8355.2	8388.1	8434.9	8477.0	8500.4	8533.2	8556.7	8570.7	8580.1	8570.7	8575.4
22.5°	8191.3	8238.2	8299.1	8331.8	8378.7	8406.8	8411.5	8444.3	8467.6	8444.3	8453.7
25°	7999.3	8046.1	8093.0	8163.3	8205.4	8238.2	8271.0	8275.7	8299.1	8294.4	8289.7
27.5°	7680.8	7741.8	7821.3	7877.6	7933.7	7985.3	8022.8	8032.1	8055.5	8046.1	8050.8
30°	7245.2	7310.9	7385.8	7474.8	7554.4	7605.9	7652.7	7685.5	7708.9	7694.9	7690.2
32.5°	6627.1	6692.7	6772.3	6861.2	6955.0	7029.8	7086.1	7128.2	7156.3	7146.9	7123.5
35°	5919.9	5938.6	5990.2	6060.4	6140.0	6219.6	6271.2	6317.9	6350.7	6360.1	6360.1
37.5°	5194.0	5133.1	5095.6	5095.6	5142.4	5175.2	5222.0	5250.1	5301.7	5320.4	5334.5
40°	4491.4	4350.9	4219.8	4121.5	4055.9	4051.2	4051.2	4065.2	4112.1	4172.9	4229.2
42.5°	3863.8	3639.0	3437.7	3255.0	3123.9	3048.9	3016.2	3020.9	3058.3	3114.5	3208.1
45°	3362.7	3081.7	2828.8	2608.7	2430.7	2313.6	2257.4	2252.7	2280.8	2346.4	2449.5
47.5°	2974.0	2674.2	2388.5	2135.6	1943.7	1817.2	1751.6	1732.9	1751.6	1812.5	1934.3
50°	2650.8	2341.8	2046.7	1784.4	1578.3	1447.2	1386.3	1362.9	1386.3	1437.8	1559.5
52.5°	2351.1	2032.6	1756.3	1503.4	1283.2	1170.8	1105.3	1091.2	1105.3	1166.1	1264.6
55°	2004.5	1732.9	1461.2	1208.3	1016.4	903.9	852.4	838.4	852.4	908.6	1011.7
57.5°	1662.7	1428.4	1189.6	960.1	796.2	697.8	651.0	632.2	665.0	702.5	824.3
60°	1344.1	1156.8	955.4	754.0	618.2	529.2	491.7	487.0	496.4	543.3	627.5
62.5°	1053.8	899.2	739.9	576.1	463.7	426.2	379.3	374.7	384.0	412.1	477.7
65°	758.7	660.4	538.6	421.5	332.6	281.0	262.3	267.0	276.3	295.1	355.9
67.5°	529.2	459.0	374.7	295.1	229.5	206.0	187.4	182.7	187.4	220.1	252.9
70°	355.9	313.8	252.9	224.8	159.3	126.4	131.1	117.1	135.8	135.8	163.9
72.5°	234.1	206.0	168.6	131.1	112.4	89.0	89.0	84.3	93.6	98.3	121.8
75°	121.8	93.6	93.6	65.5	46.9	23.4	42.2	37.5	32.8	37.5	46.9
77.5°	84.3	70.2	65.5	51.6	46.9	37.5	37.5	37.5	37.5	42.2	46.9
80°	51.6	51.6	37.5	32.8	28.1	23.4	28.1	28.1	28.1	28.1	32.8
82.5°	32.8	28.1	28.1	23.4	23.4	18.7	18.7	18.7	18.7	18.7	28.1
85°	28.1	18.7	18.7	14.1	18.7	32.8	14.1	18.7	18.7	18.7	14.1
87.5°	9.4	14.1	14.1	14.1	9.4	4.7	9.4	14.1	14.1	23.4	18.7
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°	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2	8725.2
2.5°	8739.3	8744.0	8744.0	8739.3	8739.3	8729.9	8748.6	8734.6	8739.3	8758.0	8744.0
5°	8748.6	8753.3	8753.3	8748.6	8748.6	8748.6	8753.3	8753.3	8748.6	8744.0	8753.3
7.5°	8767.4	8762.7	8762.7	8753.3	8753.3	8744.0	8753.3	8739.3	8748.6	8739.3	8753.3
10°	8744.0	8748.6	8744.0	8739.3	8739.3	8734.6	8734.6	8720.5	8725.2	8711.2	8720.5
12.5°	8729.9	8725.2	8725.2	8715.9	8706.6	8697.2	8692.5	8678.4	8678.4	8645.6	8659.7
15°	8692.5	8697.2	8683.1	8664.4	8655.0	8631.6	8622.2	8603.4	8584.8	8561.4	8566.1
17.5°	8659.7	8645.6	8626.9	8608.1	8570.7	8552.0	8533.2	8505.1	8495.7	8467.6	8458.3
20°	8561.4	8552.0	8528.6	8495.7	8472.3	8430.2	8411.5	8383.4	8359.9	8331.8	8317.7
22.5°	8434.9	8425.5	8397.4	8364.6	8327.1	8308.5	8289.7	8238.2	8214.7	8186.6	8181.9
25°	8275.7	8261.6	8233.5	8196.0	8177.2	8125.8	8107.0	8069.5	8060.2	8032.1	8027.5
27.5°	8032.1	8013.4	7980.6	7933.7	7901.0	7868.2	7849.5	7821.3	7812.0	7783.8	7779.3
30°	7666.8	7643.3	7577.8	7559.1	7502.8	7470.1	7470.1	7432.6	7437.3	7418.6	7418.6
32.5°	7090.8	7053.3	7001.7	6964.2	6926.8	6908.1	6908.1	6894.0	6903.4	6903.4	6912.8
35°	6327.3	6275.9	6247.7	6224.3	6224.3	6243.0	6299.2	6313.3	6341.4	6364.8	6383.6
37.5°	5348.4	5343.9	5376.6	5404.7	5475.0	5554.6	5652.9	5737.3	5816.8	5873.1	5929.2
40°	4290.0	4407.1	4500.8	4632.0	4739.6	4894.2	5072.1	5217.3	5353.1	5451.6	5554.6
42.5°	3348.6	3498.5	3695.3	3887.2	4079.3	4290.0	4524.3	4725.6	4903.6	5039.4	5147.1
45°	2608.7	2814.7	3053.6	3297.2	3545.4	3807.7	4051.2	4257.3	4444.6	4585.1	4692.8
47.5°	2102.8	2327.7	2599.3	2866.3	3147.3	3423.6	3695.3	3873.2	4027.7	4140.1	4238.6
50°	1737.5	1976.4	2262.1	2566.5	2847.5	3123.9	3358.0	3531.3	3657.8	3756.1	3817.0
52.5°	1451.8	1704.7	2009.2	2313.6	2594.6	2847.5	3058.3	3189.4	3292.5	3362.7	3418.9
55°	1198.9	1442.5	1728.2	2013.9	2290.2	2529.0	2702.3	2800.7	2880.3	2922.4	2955.2
57.5°	978.9	1203.6	1465.9	1728.2	1967.0	2163.8	2299.6	2397.9	2435.4	2468.2	2463.5
60°	768.1	978.9	1217.7	1442.5	1648.6	1807.8	1906.2	1962.3	1990.4	2004.5	1995.1
62.5°	604.2	796.2	978.9	1175.5	1325.4	1461.2	1555.0	1555.0	1568.9	1573.6	1587.7
65°	449.6	594.8	754.0	899.2	1020.9	1110.0	1161.5	1175.5	1194.3	1189.6	1180.2
67.5°	332.6	440.3	557.3	665.0	749.3	805.5	843.0	875.9	871.2	861.8	857.1
70°	229.5	299.8	402.8	468.4	529.2	585.5	594.8	599.5	604.2	608.8	599.5
72.5°	159.3	210.7	267.0	323.2	360.6	384.0	407.5	412.1	412.1	412.1	407.5
75°	79.6	107.7	159.3	182.7	215.4	224.8	243.5	243.5	257.6	238.8	234.1
77.5°	70.2	84.3	112.4	131.1	145.2	159.3	163.9	178.0	173.3	163.9	168.6
80°	42.2	51.6	70.2	79.6	98.3	103.0	107.7	112.4	107.7	112.4	112.4
82.5°	32.8	37.5	46.9	46.9	60.9	60.9	65.5	65.5	70.2	70.2	70.2
85°	18.7	32.8	28.1	56.2	37.5	37.5	46.9	56.2	46.9	46.9	56.2
87.5°	18.7	18.7	14.1	18.7	18.7	18.7	23.4	28.1	28.1	32.8	28.1
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: P249477

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8725.2	8725.2	8725.2	8725.2
2.5°	8739.3	8748.6	8734.6	8729.9
5°	8753.3	8753.3	8744.0	8744.0
7.5°	8753.3	8753.3	8739.3	8729.9
10°	8715.9	8715.9	8701.9	8692.5
12.5°	8645.6	8645.6	8640.9	8626.9
15°	8556.7	8556.7	8537.9	8523.9
17.5°	8434.9	8444.3	8420.9	8420.9
20°	8303.8	8299.1	8280.4	8271.0
22.5°	8168.0	8158.6	8153.9	8125.8
25°	8022.8	8013.4	7999.3	7985.3
27.5°	7774.6	7769.9	7755.8	7737.1
30°	7395.1	7390.4	7371.7	7371.7
32.5°	6903.4	6898.7	6880.0	6884.7
35°	6392.9	6411.7	6402.3	6383.6
37.5°	5966.7	5980.8	5990.2	5980.8
40°	5610.7	5652.9	5657.6	5667.0
42.5°	5231.4	5287.6	5306.4	5315.7
45°	4777.1	4828.6	4870.8	4861.4
47.5°	4313.4	4350.9	4388.4	4360.3
50°	3868.5	3891.9	3906.0	3906.0
52.5°	3447.1	3447.1	3442.4	3447.1
55°	2964.6	2964.6	2945.9	2955.2
57.5°	2458.8	2468.2	2454.1	2430.7
60°	1990.4	1967.0	1957.6	1943.7
62.5°	1550.3	1550.3	1517.5	1559.5
65°	1161.5	1147.5	1133.4	1128.7
67.5°	843.0	838.4	824.3	819.6
70°	594.8	576.1	571.4	562.0
72.5°	398.1	398.1	388.7	388.7
75°	243.5	220.1	215.4	220.1
77.5°	168.6	163.9	163.9	159.3
80°	112.4	107.7	117.1	103.0
82.5°	70.2	74.9	70.2	74.9
85°	46.9	56.2	51.6	51.6
87.5°	28.1	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)