

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: P249270

Luminaire Tested: **LD8B200D010 ER8B200940 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249270
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 ER8B200940 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19416.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

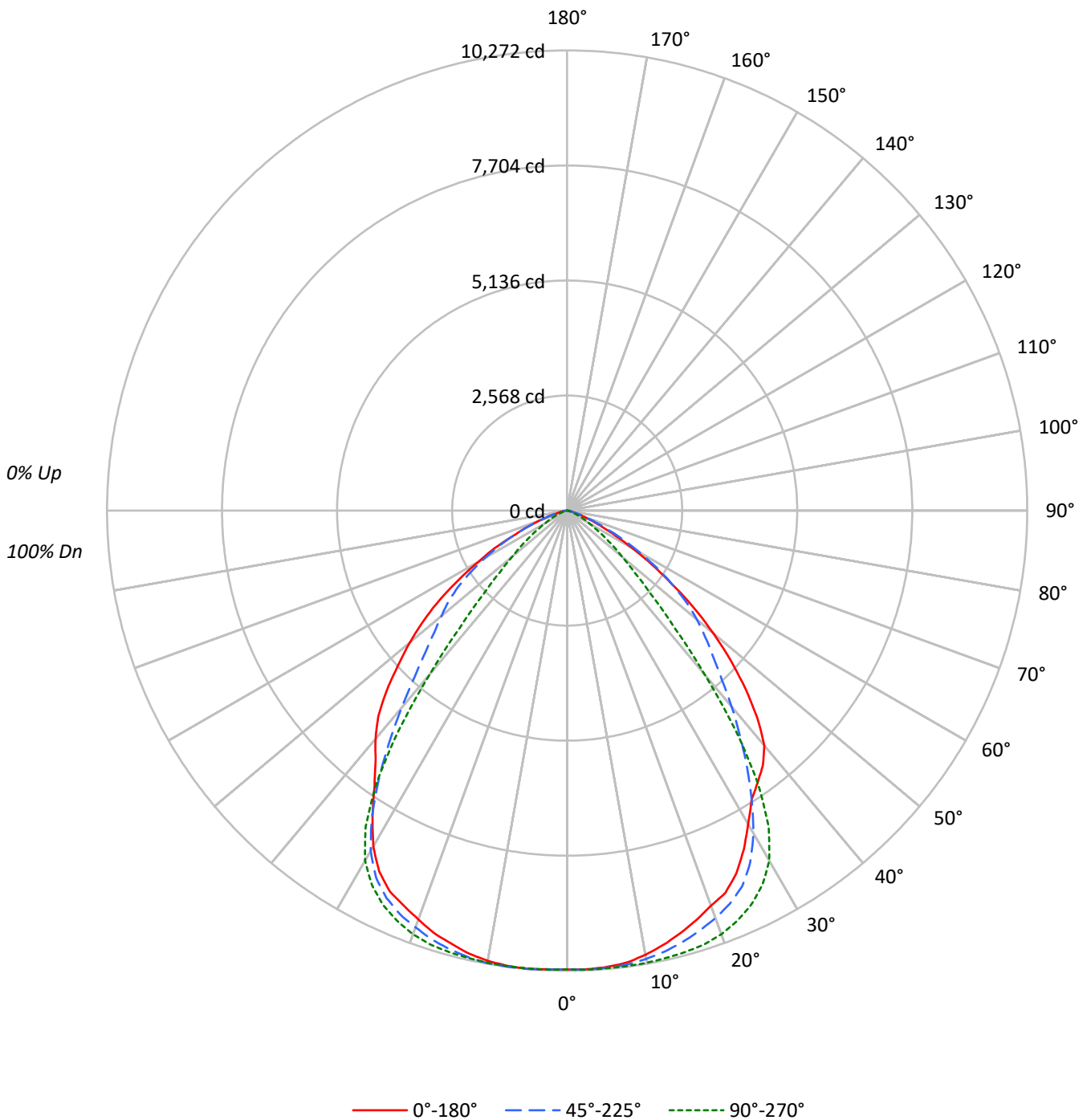
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	315896	315896	315896
5°	316589	317444	317784
10°	315259	320942	319564
15°	311764	325635	319493
20°	308021	330214	318666
25°	304022	330592	318993
30°	287624	321297	308180
35°	279038	279237	282139
40°	275579	192128	267834
45°	245554	115342	248908
50°	204177	76766	220003
55°	153134	52917	186536
60°	103770	35264	140737
65°	62597	22875	96693
70°	34702	12397	59487
75°	15727	5242	30798
80°	13674	5860	21487
85°	15568	7748	21405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.7	5.0
10°-20°	2839.3	14.6
20°-30°	4309.5	22.2
30°-40°	4526.3	23.3
40°-50°	3393.5	17.5
50°-60°	2177.3	11.2
60°-70°	931.4	4.8
70°-80°	220.0	1.1
80°-90°	40.9	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°	8126.5	41.9
0°-40°	12652.7	65.2
0°-60°	18223.6	93.9
0°-90°	19416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19416.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10244	10244	10244	10244	10244	
5°	10228	10244	10255	10272	10266	972
15°	9766	9969	10200	10134	10008	2755
25°	8936	9249	9716	9540	9376	4082
35°	7412	7000	7418	7330	7495	4652
45°	5631	4602	2645	4471	5708	4312
55°	2848	2848	984	2969	3470	2584
65°	858	1012	314	1303	1325	916
75°	132	154	44	264	258	192
85°	44	27	22	44	60	46
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°	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3
2.5°	10249.8	10260.8	10255.3	10255.3	10249.8	10255.3	10255.3	10266.3	10266.3	10255.3	10249.8
5°	10227.7	10238.7	10238.7	10227.7	10227.7	10255.3	10238.7	10249.8	10249.8	10244.3	10244.3
7.5°	10178.3	10178.3	10200.3	10183.8	10183.8	10200.3	10194.8	10205.8	10216.8	10222.3	10222.3
10°	10068.3	10079.3	10084.8	10084.8	10090.3	10106.8	10117.8	10139.9	10150.8	10161.8	10167.3
12.5°	9930.9	9947.3	9952.8	9947.3	9963.9	9985.8	10013.4	10040.8	10057.4	10079.3	10095.9
15°	9765.8	9765.8	9776.8	9793.4	9804.4	9837.4	9864.8	9897.8	9941.8	9969.4	9996.8
17.5°	9584.4	9595.5	9611.9	9611.9	9634.0	9688.9	9705.4	9754.9	9804.4	9831.9	9886.9
20°	9386.5	9397.4	9414.0	9425.0	9452.5	9496.5	9529.4	9573.4	9628.4	9678.0	9732.9
22.5°	9232.5	9210.5	9221.4	9232.5	9260.0	9298.5	9337.0	9391.9	9446.9	9496.5	9551.5
25°	8935.5	8941.0	8957.6	8968.5	9001.6	9034.6	9078.5	9144.5	9194.0	9249.0	9309.4
27.5°	8534.2	8539.7	8567.1	8567.1	8594.6	8649.6	8677.1	8732.1	8798.2	8853.0	8924.6
30°	8077.8	8088.7	8088.7	8110.8	8127.2	8154.7	8182.2	8237.2	8270.2	8319.7	8418.7
32.5°	7659.9	7670.8	7665.3	7659.9	7643.3	7637.8	7632.3	7643.3	7654.4	7670.8	7709.3
35°	7412.5	7384.9	7362.9	7324.5	7280.5	7225.4	7175.9	7110.0	7049.4	6999.9	6945.0
37.5°	7175.9	7170.4	7137.4	7082.4	6994.4	6895.5	6780.1	6637.1	6494.0	6340.1	6191.7
40°	6846.0	6829.5	6802.0	6725.1	6626.0	6505.1	6351.1	6175.2	5944.1	5707.7	5465.8
42.5°	6285.1	6290.6	6257.6	6197.1	6103.7	5988.1	5828.7	5636.3	5388.9	5108.3	4795.0
45°	5630.8	5630.8	5619.8	5570.2	5504.3	5410.8	5289.8	5130.4	4888.5	4602.4	4267.0
47.5°	4948.9	4954.4	4937.9	4927.0	4899.4	4839.0	4751.0	4630.0	4459.6	4184.5	3849.1
50°	4256.1	4256.1	4283.6	4278.1	4278.1	4256.1	4217.6	4146.1	3997.7	3777.7	3464.3
52.5°	3563.2	3574.2	3590.8	3612.7	3640.2	3684.2	3640.2	3607.2	3513.7	3343.2	3073.9
55°	2848.4	2859.4	2886.8	2925.3	2958.4	3002.4	3013.3	3013.3	2963.8	2848.4	2644.9
57.5°	2238.1	2221.5	2243.6	2276.5	2320.5	2364.5	2397.5	2436.0	2430.5	2353.5	2188.5
60°	1682.6	1688.2	1704.6	1737.7	1770.6	1809.1	1853.1	1886.1	1902.6	1864.1	1759.6
62.5°	1226.3	1226.3	1248.2	1281.2	1297.7	1352.7	1380.2	1396.7	1413.1	1407.6	1341.7
65°	857.9	868.8	879.8	896.3	912.8	945.7	962.3	995.2	1006.3	1011.8	962.3
67.5°	604.9	588.4	599.4	610.3	626.9	648.9	681.9	681.9	698.3	698.3	665.3
70°	384.9	384.9	390.5	406.9	417.9	423.4	434.4	445.4	461.9	456.4	456.4
72.5°	258.5	252.9	258.5	264.0	269.5	285.9	285.9	291.4	302.5	308.0	285.9
75°	132.0	137.5	148.4	143.0	159.4	148.4	153.9	170.5	165.0	153.9	153.9
77.5°	109.9	109.9	109.9	104.5	115.4	115.4	109.9	121.0	115.4	115.4	109.9
80°	77.0	82.5	77.0	71.4	77.0	71.4	71.4	71.4	71.4	71.4	65.9
82.5°	60.5	49.5	55.0	49.5	55.0	55.0	49.5	44.0	44.0	49.5	44.0
85°	44.0	33.0	38.5	38.5	33.0	33.0	33.0	33.0	33.0	27.4	27.4
87.5°	27.4	16.5	16.5	16.5	21.9	21.9	21.9	16.5	21.9	21.9	11.0
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°	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3
2.5°	10260.8	10255.3	10266.3	10260.8	10260.8	10255.3	10260.8	10255.3	10266.3	10244.3	10249.8
5°	10260.8	10249.8	10255.3	10260.8	10266.3	10255.3	10255.3	10255.3	10266.3	10255.3	10260.8
7.5°	10238.7	10233.2	10249.8	10260.8	10255.3	10249.8	10260.8	10255.3	10266.3	10260.8	10271.7
10°	10194.8	10200.3	10211.3	10227.7	10233.2	10238.7	10249.8	10249.8	10266.3	10244.3	10255.3
12.5°	10128.8	10150.8	10178.3	10189.2	10211.3	10211.3	10222.3	10227.7	10238.7	10233.2	10249.8
15°	10046.3	10073.8	10106.8	10134.3	10161.8	10178.3	10194.8	10200.3	10216.8	10200.3	10205.8
17.5°	9947.3	9980.3	10029.8	10062.8	10106.8	10123.3	10145.2	10156.3	10172.8	10161.8	10167.3
20°	9809.8	9848.4	9903.3	9952.8	9980.3	10018.8	10046.3	10062.8	10073.8	10062.8	10068.3
22.5°	9617.4	9672.4	9743.9	9782.4	9837.4	9870.4	9875.9	9914.4	9941.8	9914.4	9925.4
25°	9391.9	9446.9	9502.0	9584.4	9634.0	9672.4	9710.9	9716.4	9743.9	9738.4	9732.9
27.5°	9018.0	9089.6	9183.0	9249.0	9314.9	9375.5	9419.5	9430.4	9458.0	9446.9	9452.5
30°	8506.6	8583.7	8671.7	8776.1	8869.6	8930.0	8985.0	9023.5	9051.0	9034.6	9029.0
32.5°	7780.8	7857.8	7951.3	8055.7	8165.8	8253.6	8319.7	8369.2	8402.2	8391.2	8363.7
35°	6950.6	6972.5	7033.0	7115.5	7208.9	7302.4	7362.9	7417.8	7456.3	7467.4	7467.4
37.5°	6098.2	6026.8	5982.8	5982.8	6037.7	6076.1	6131.2	6164.1	6224.7	6246.6	6263.2
40°	5273.3	5108.3	4954.4	4839.0	4762.0	4756.5	4756.5	4772.9	4827.9	4899.4	4965.5
42.5°	4536.5	4272.5	4036.1	3821.7	3667.7	3579.8	3541.3	3546.8	3590.8	3656.7	3766.6
45°	3948.1	3618.2	3321.3	3062.8	2853.9	2716.4	2650.4	2644.9	2677.9	2754.8	2875.9
47.5°	3491.8	3139.8	2804.4	2507.4	2282.0	2133.5	2056.5	2034.6	2056.5	2128.0	2271.0
50°	3112.3	2749.5	2403.0	2095.0	1853.1	1699.2	1627.6	1600.2	1627.6	1688.2	1831.1
52.5°	2760.4	2386.5	2062.1	1765.1	1506.7	1374.7	1297.7	1281.2	1297.7	1369.2	1484.7
55°	2353.5	2034.6	1715.6	1418.7	1193.3	1061.3	1000.8	984.3	1000.8	1066.8	1187.8
57.5°	1952.1	1677.1	1396.7	1127.2	934.8	819.3	764.4	742.3	780.8	824.8	967.8
60°	1578.1	1358.2	1121.7	885.3	725.9	621.3	577.3	571.8	582.9	637.9	736.8
62.5°	1237.3	1055.8	868.8	676.4	544.4	500.4	445.4	440.0	450.9	483.8	560.9
65°	890.8	775.4	632.4	494.9	390.5	329.9	308.0	313.5	324.4	346.5	417.9
67.5°	621.3	538.9	440.0	346.5	269.5	241.9	220.0	214.5	220.0	258.5	296.9
70°	417.9	368.4	296.9	264.0	187.0	148.4	153.9	137.5	159.4	159.4	192.4
72.5°	274.9	241.9	197.9	153.9	132.0	104.5	104.5	99.0	109.9	115.4	143.0
75°	143.0	109.9	109.9	77.0	55.0	27.4	49.5	44.0	38.5	44.0	55.0
77.5°	99.0	82.5	77.0	60.5	55.0	44.0	44.0	44.0	44.0	49.5	55.0
80°	60.5	60.5	44.0	38.5	33.0	27.4	33.0	33.0	33.0	33.0	38.5
82.5°	38.5	33.0	33.0	27.4	27.4	21.9	21.9	21.9	21.9	21.9	33.0
85°	33.0	21.9	21.9	16.5	21.9	38.5	16.5	21.9	21.9	21.9	16.5
87.5°	11.0	16.5	16.5	16.5	11.0	5.5	11.0	16.5	16.5	27.4	21.9
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°	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3	10244.3
2.5°	10260.8	10266.3	10266.3	10260.8	10260.8	10249.8	10271.7	10255.3	10260.8	10282.7	10266.3
5°	10271.7	10277.2	10277.2	10271.7	10271.7	10271.7	10277.2	10277.2	10271.7	10266.3	10277.2
7.5°	10293.8	10288.3	10288.3	10277.2	10277.2	10266.3	10277.2	10260.8	10271.7	10260.8	10277.2
10°	10266.3	10271.7	10266.3	10260.8	10260.8	10255.3	10255.3	10238.7	10244.3	10227.7	10238.7
12.5°	10249.8	10244.3	10244.3	10233.2	10222.3	10211.3	10205.8	10189.2	10189.2	10150.8	10167.3
15°	10205.8	10211.3	10194.8	10172.8	10161.8	10134.3	10123.3	10101.2	10079.3	10051.9	10057.4
17.5°	10167.3	10150.8	10128.8	10106.8	10062.8	10040.8	10018.8	9985.8	9974.8	9941.8	9930.9
20°	10051.9	10040.8	10013.4	9974.8	9947.3	9897.8	9875.9	9842.9	9815.3	9782.4	9765.8
22.5°	9903.3	9892.3	9859.3	9820.8	9776.8	9754.9	9732.9	9672.4	9644.9	9611.9	9606.4
25°	9716.4	9699.9	9666.9	9622.9	9600.9	9540.4	9518.4	9474.4	9463.5	9430.4	9425.0
27.5°	9430.4	9408.5	9370.0	9314.9	9276.5	9238.0	9216.1	9183.0	9172.1	9139.0	9133.6
30°	9001.6	8974.0	8897.0	8875.1	8809.1	8770.6	8770.6	8726.6	8732.1	8710.2	8710.2
32.5°	8325.2	8281.2	8220.7	8176.7	8132.7	8110.8	8110.8	8094.2	8105.2	8105.2	8116.3
35°	7428.9	7368.5	7335.4	7307.9	7307.9	7329.8	7395.9	7412.5	7445.4	7472.9	7494.9
37.5°	6279.6	6274.2	6312.7	6345.6	6428.1	6521.6	6637.1	6736.1	6829.5	6895.5	6961.5
40°	5036.9	5174.4	5284.3	5438.4	5564.7	5746.2	5955.2	6125.7	6285.1	6400.7	6521.6
42.5°	3931.6	4107.6	4338.6	4564.0	4789.5	5036.9	5311.9	5548.3	5757.3	5916.7	6043.2
45°	3062.8	3304.7	3585.3	3871.2	4162.6	4470.6	4756.5	4998.4	5218.4	5383.4	5509.8
47.5°	2468.9	2732.9	3051.8	3365.3	3695.2	4019.6	4338.6	4547.5	4728.9	4860.9	4976.5
50°	2040.0	2320.5	2656.0	3013.3	3343.2	3667.7	3942.6	4146.1	4294.6	4410.0	4481.5
52.5°	1704.6	2001.5	2359.0	2716.4	3046.3	3343.2	3590.8	3744.7	3865.7	3948.1	4014.1
55°	1407.6	1693.7	2029.1	2364.5	2688.9	2969.3	3172.8	3288.3	3381.7	3431.2	3469.7
57.5°	1149.3	1413.1	1721.1	2029.1	2309.5	2540.5	2700.0	2815.4	2859.4	2897.9	2892.4
60°	901.9	1149.3	1429.7	1693.7	1935.6	2122.5	2238.1	2304.0	2336.9	2353.5	2342.5
62.5°	709.3	934.8	1149.3	1380.2	1556.2	1715.6	1825.7	1825.7	1842.1	1847.6	1864.1
65°	527.8	698.3	885.3	1055.8	1198.7	1303.2	1363.8	1380.2	1402.2	1396.7	1385.7
67.5°	390.5	516.9	654.3	780.8	879.8	945.7	989.7	1028.3	1022.8	1011.8	1006.3
70°	269.5	352.0	472.9	549.9	621.3	687.4	698.3	703.8	709.3	714.8	703.8
72.5°	187.0	247.4	313.5	379.4	423.4	450.9	478.4	483.8	483.8	483.8	478.4
75°	93.5	126.5	187.0	214.5	252.9	264.0	285.9	285.9	302.5	280.4	274.9
77.5°	82.5	99.0	132.0	153.9	170.5	187.0	192.4	209.0	203.4	192.4	197.9
80°	49.5	60.5	82.5	93.5	115.4	121.0	126.5	132.0	126.5	132.0	132.0
82.5°	38.5	44.0	55.0	55.0	71.4	71.4	77.0	77.0	82.5	82.5	82.5
85°	21.9	38.5	33.0	65.9	44.0	44.0	55.0	65.9	55.0	55.0	65.9
87.5°	21.9	21.9	16.5	21.9	21.9	21.9	27.4	33.0	33.0	38.5	33.0
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: P249270

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10244.3	10244.3	10244.3	10244.3
2.5°	10260.8	10271.7	10255.3	10249.8
5°	10277.2	10277.2	10266.3	10266.3
7.5°	10277.2	10277.2	10260.8	10249.8
10°	10233.2	10233.2	10216.8	10205.8
12.5°	10150.8	10150.8	10145.2	10128.8
15°	10046.3	10046.3	10024.3	10007.9
17.5°	9903.3	9914.4	9886.9	9886.9
20°	9749.4	9743.9	9721.9	9710.9
22.5°	9590.0	9578.9	9573.4	9540.4
25°	9419.5	9408.5	9391.9	9375.5
27.5°	9128.1	9122.5	9106.0	9084.1
30°	8682.6	8677.1	8655.1	8655.1
32.5°	8105.2	8099.7	8077.8	8083.3
35°	7505.8	7527.9	7516.9	7494.9
37.5°	7005.5	7022.0	7033.0	7022.0
40°	6587.5	6637.1	6642.6	6653.6
42.5°	6142.2	6208.1	6230.2	6241.1
45°	5608.7	5669.3	5718.8	5707.7
47.5°	5064.3	5108.3	5152.3	5119.4
50°	4542.0	4569.5	4586.0	4586.0
52.5°	4047.2	4047.2	4041.7	4047.2
55°	3480.7	3480.7	3458.8	3469.7
57.5°	2886.8	2897.9	2881.3	2853.9
60°	2336.9	2309.5	2298.5	2282.0
62.5°	1820.1	1820.1	1781.7	1831.1
65°	1363.8	1347.2	1330.7	1325.2
67.5°	989.7	984.3	967.8	962.3
70°	698.3	676.4	670.9	659.8
72.5°	467.4	467.4	456.4	456.4
75°	285.9	258.5	252.9	258.5
77.5°	197.9	192.4	192.4	187.0
80°	132.0	126.5	137.5	121.0
82.5°	82.5	88.0	82.5	88.0
85°	55.0	65.9	60.5	60.5
87.5°	33.0	33.0	33.0	33.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)