

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: P248523

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200950 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20365.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

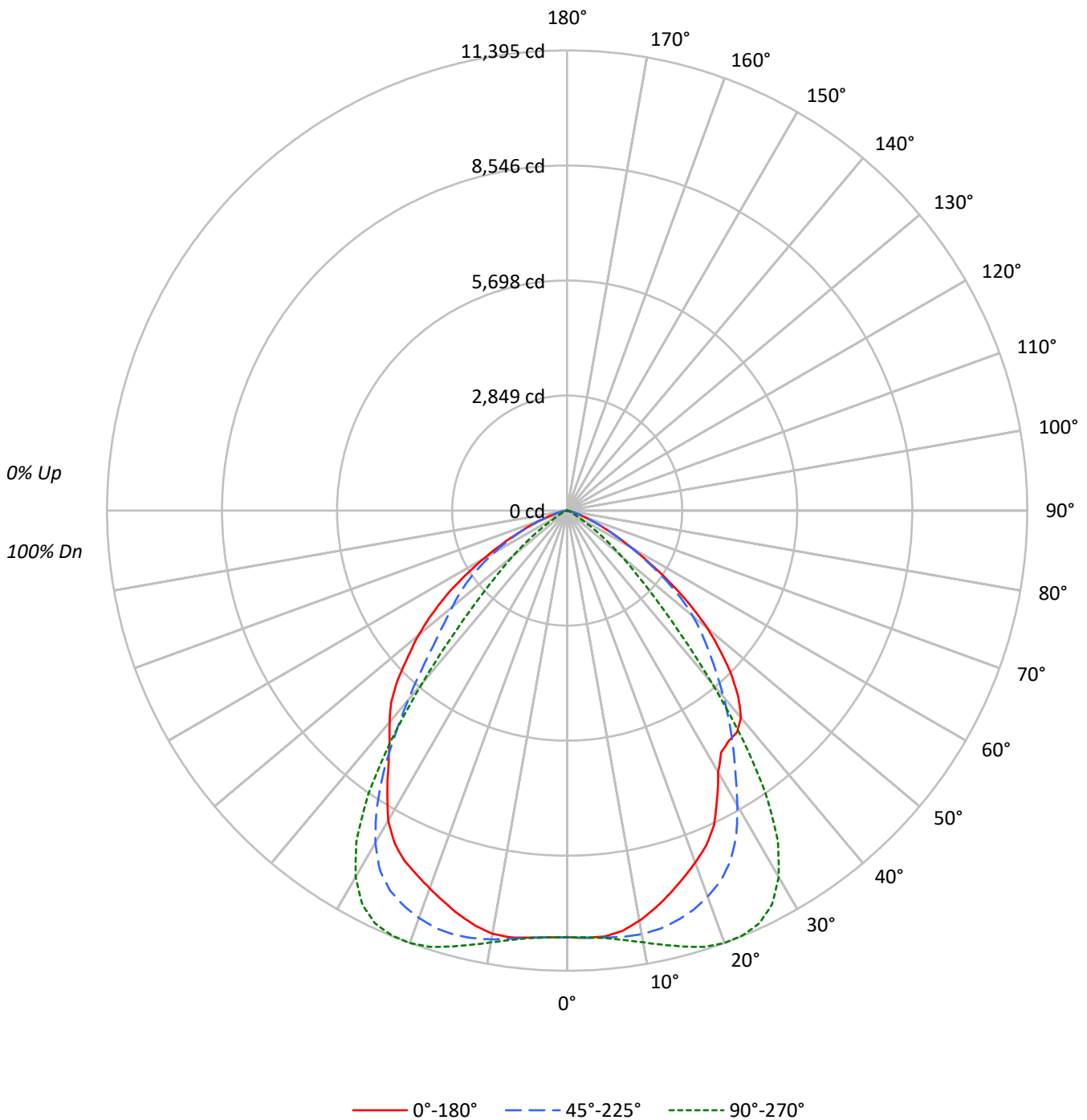
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	325773	325773	325773
5°	327714	328931	328581
10°	322899	339933	333263
15°	313460	356781	330644
20°	304362	373917	326627
25°	292675	383496	325111
30°	266356	372980	315475
35°	262388	323187	290252
40°	269520	224146	275160
45°	250901	135472	258729
50°	217629	83660	230543
55°	167010	43713	195654
60°	113780	17632	147669
65°	70783	9004	101874
70°	38426	5563	62183
75°	20040	2669	36744
80°	8968	3001	19907
85°	5979	1981	17867



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.0	5.0
10°-20°	3009.7	14.8
20°-30°	4591.7	22.5
30°-40°	4791.5	23.5
40°-50°	3599.0	17.7
50°-60°	2214.4	10.9
60°-70°	901.2	4.4
70°-80°	212.3	1.0
80°-90°	29.2	0.1
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°	8617.4	42.3
0°-40°	13408.9	65.8
0°-60°	19222.3	94.4
0°-90°	20365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20365.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10565	10565	10565	10565	10565	
5°	10587	10615	10626	10615	10615	###
15°	9819	10509	11176	10868	10357	2766
25°	8602	9567	11271	10380	9555	3911
35°	6970	7166	8585	7935	7710	4401
45°	5753	4980	3106	4638	5933	4390
55°	3106	2950	813	2950	3639	2792
65°	970	981	123	1318	1396	1012
75°	168	168	22	297	308	203
85°	17	17	6	39	50	24
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°	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6
2.5°	10592.8	10575.9	10592.8	10592.8	10598.4	10587.1	10592.8	10598.4	10587.1	10587.1	10587.1
5°	10587.1	10575.9	10587.1	10581.5	10592.8	10592.8	10604.0	10604.0	10615.1	10615.1	10632.0
7.5°	10497.4	10475.0	10497.4	10514.3	10525.4	10547.9	10575.9	10598.4	10620.8	10643.3	10671.3
10°	10312.3	10312.3	10329.2	10362.8	10396.4	10435.7	10486.2	10542.3	10598.4	10648.8	10699.2
12.5°	10082.5	10065.6	10099.2	10144.1	10194.6	10256.3	10334.8	10418.9	10508.7	10609.5	10688.1
15°	9818.9	9802.0	9841.3	9886.1	9947.9	10037.6	10133.0	10245.1	10374.1	10508.7	10637.6
17.5°	9549.7	9544.1	9583.3	9645.1	9695.6	9790.8	9914.3	10048.7	10194.6	10374.1	10542.3
20°	9275.0	9269.4	9308.6	9359.1	9426.4	9516.1	9639.4	9796.4	9970.3	10172.2	10368.4
22.5°	8988.9	8994.6	9028.2	9084.3	9140.4	9235.6	9364.6	9521.7	9712.3	9931.0	10149.7
25°	8602.0	8574.0	8618.9	8675.0	8770.2	8848.7	8972.2	9140.4	9336.6	9566.6	9824.5
27.5°	8041.2	8035.6	8075.0	8125.4	8209.5	8304.8	8439.4	8613.3	8820.7	9073.1	9325.4
30°	7480.5	7491.7	7508.6	7559.1	7615.1	7710.4	7845.0	7990.9	8187.1	8428.2	8697.4
32.5°	7099.2	7099.2	7121.7	7155.3	7194.5	7245.0	7340.4	7446.9	7598.3	7766.5	7962.8
35°	6970.2	6947.8	6970.2	6975.8	6981.4	6992.7	7009.4	7043.2	7093.5	7166.5	7239.4
37.5°	6914.2	6897.3	6897.3	6875.0	6846.8	6813.2	6768.4	6717.9	6661.9	6588.9	6532.9
40°	6695.5	6684.2	6673.0	6650.6	6588.9	6521.7	6448.7	6330.9	6202.0	6022.5	5843.2
42.5°	6275.0	6263.7	6258.1	6213.2	6157.1	6078.6	5994.5	5871.2	5708.6	5478.6	5220.6
45°	5753.4	5730.9	5714.2	5674.9	5635.6	5568.3	5489.8	5377.6	5215.0	4979.6	4671.1
47.5°	5147.8	5136.5	5130.9	5114.2	5074.9	5035.6	4985.2	4895.5	4749.6	4525.3	4205.7
50°	4536.5	4514.2	4525.3	4519.8	4502.9	4474.9	4441.2	4379.6	4267.3	4065.5	3773.9
52.5°	3835.5	3835.5	3830.0	3846.8	3852.4	3846.8	3852.4	3785.2	3689.8	3538.3	3291.6
55°	3106.5	3106.5	3123.4	3145.9	3168.3	3173.9	3168.3	3140.3	3072.9	2949.6	2730.9
57.5°	2422.4	2411.3	2444.9	2478.5	2501.0	2523.4	2506.5	2484.2	2444.9	2343.9	2175.7
60°	1844.9	1844.9	1867.3	1889.8	1912.1	1934.6	1929.0	1923.4	1889.8	1822.4	1687.9
62.5°	1357.0	1362.6	1362.6	1379.5	1401.9	1424.4	1441.1	1424.4	1407.5	1362.6	1272.9
65°	970.1	964.4	970.1	986.9	1003.8	1026.2	1037.4	1031.8	1014.9	981.3	914.1
67.5°	650.5	644.9	667.2	672.9	684.1	706.6	701.0	706.6	701.0	672.9	616.9
70°	426.2	414.9	426.2	420.5	437.4	443.0	454.2	459.8	454.2	437.4	420.5
72.5°	263.6	258.0	263.6	269.2	274.8	280.3	291.6	291.6	285.9	274.8	252.3
75°	168.2	151.3	157.0	145.9	157.0	157.0	168.2	173.8	168.2	168.2	157.0
77.5°	101.0	101.0	101.0	101.0	101.0	101.0	101.0	106.6	112.1	101.0	95.4
80°	50.5	50.5	56.1	56.1	56.1	61.7	56.1	56.1	56.1	61.7	44.9
82.5°	39.2	33.6	33.6	33.6	39.2	33.6	33.6	33.6	33.6	33.6	33.6
85°	16.9	22.4	16.9	11.2	16.9	16.9	22.4	16.9	16.9	16.9	22.4
87.5°	5.6	5.6	0.0	0.0	0.0	5.6	0.0	5.6	5.6	11.2	0.0
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°	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6
2.5°	10592.8	10581.5	10581.5	10575.9	10587.1	10575.9	10581.5	10575.9	10575.9	10587.1	10575.9
5°	10632.0	10637.6	10626.4	10620.8	10637.6	10637.6	10637.6	10626.4	10626.4	10632.0	10626.4
7.5°	10688.1	10699.2	10704.9	10710.5	10721.7	10727.4	10727.4	10721.7	10716.1	10733.0	10710.5
10°	10749.7	10766.6	10800.2	10817.1	10845.1	10845.1	10856.3	10856.3	10845.1	10856.3	10850.7
12.5°	10727.4	10828.2	10884.3	10923.6	10962.8	10996.4	11007.7	11013.3	11007.7	11030.2	11007.7
15°	10766.6	10850.7	10940.5	11007.7	11080.5	11119.8	11131.0	11175.9	11187.2	11192.8	11159.2
17.5°	10704.9	10856.3	10951.6	11052.6	11159.2	11232.0	11299.3	11327.4	11333.0	11344.1	11299.3
20°	10564.6	10733.0	10878.7	11024.6	11147.9	11260.0	11316.1	11394.6	11372.2	11417.1	11355.4
22.5°	10374.1	10564.6	10749.7	10940.5	11069.4	11204.0	11321.8	11377.7	11405.9	11405.9	11338.5
25°	10071.2	10295.6	10497.4	10693.6	10890.0	11052.6	11187.2	11271.3	11288.1	11282.5	11204.0
27.5°	9600.2	9841.3	10076.9	10301.2	10542.3	10733.0	10890.0	10990.8	11018.9	11018.9	10934.8
30°	8949.7	9207.7	9437.6	9706.7	9953.5	10166.6	10385.3	10475.0	10525.4	10525.4	10430.2
32.5°	8175.8	8394.6	8607.6	8871.2	9140.4	9381.5	9589.0	9712.3	9774.0	9768.4	9684.3
35°	7334.8	7441.2	7604.0	7800.2	8041.2	8265.6	8467.4	8585.3	8691.7	8686.1	8607.6
37.5°	6493.5	6465.5	6482.4	6555.3	6706.6	6863.7	7020.7	7132.9	7222.5	7261.9	7245.0
40°	5669.3	5523.5	5383.2	5332.9	5344.0	5400.1	5484.2	5568.3	5669.3	5719.8	5742.2
42.5°	4929.1	4682.4	4435.5	4250.6	4144.0	4110.4	4149.6	4177.6	4239.3	4312.2	4385.2
45°	4334.7	4003.9	3678.6	3392.6	3213.1	3106.5	3084.2	3106.5	3140.3	3213.1	3308.5
47.5°	3846.8	3459.9	3095.4	2775.7	2512.2	2372.1	2332.8	2321.6	2355.2	2422.4	2551.4
50°	3415.0	3028.1	2624.4	2254.2	1979.5	1822.4	1766.4	1743.9	1783.2	1833.7	1951.4
52.5°	2943.9	2562.6	2147.7	1788.8	1502.8	1340.3	1278.5	1244.9	1267.3	1334.6	1452.4
55°	2433.7	2080.4	1704.7	1334.6	1059.8	908.5	835.5	813.1	835.5	908.5	1026.2
57.5°	1923.4	1626.2	1312.1	964.4	717.7	566.4	493.4	471.0	532.8	560.8	684.1
60°	1502.8	1261.8	992.6	706.6	493.4	375.7	302.8	285.9	314.1	364.4	465.4
62.5°	1127.2	975.7	762.6	504.7	364.4	241.1	201.8	185.1	201.8	241.1	319.7
65°	818.7	701.0	532.8	370.1	246.7	179.5	134.6	123.4	140.2	168.2	235.6
67.5°	560.8	471.0	370.1	258.0	168.2	112.1	95.4	95.4	101.0	123.4	173.8
70°	364.4	308.4	235.6	168.2	112.1	84.1	72.9	61.7	72.9	89.7	117.7
72.5°	230.0	196.2	151.3	117.7	84.1	61.7	50.5	44.9	56.1	67.2	89.7
75°	140.2	106.6	78.5	61.7	44.9	44.9	44.9	22.4	28.0	44.9	56.1
77.5°	84.1	72.9	61.7	50.5	39.2	22.4	22.4	22.4	28.0	33.6	50.5
80°	44.9	39.2	28.0	28.0	22.4	16.9	22.4	16.9	11.2	28.0	33.6
82.5°	28.0	22.4	22.4	22.4	28.0	11.2	16.9	11.2	16.9	22.4	16.9
85°	16.9	16.9	16.9	11.2	28.0	11.2	11.2	5.6	5.6	11.2	11.2
87.5°	0.0	5.6	5.6	0.0	5.6	0.0	5.6	5.6	5.6	5.6	5.6
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°	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6	10564.6
2.5°	10581.5	10575.9	10581.5	10575.9	10575.9	10575.9	10581.5	10581.5	10575.9	10575.9	10587.1
5°	10626.4	10626.4	10626.4	10620.8	10615.1	10615.1	10626.4	10626.4	10609.5	10626.4	10626.4
7.5°	10721.7	10704.9	10721.7	10699.2	10688.1	10693.6	10699.2	10688.1	10676.9	10682.5	10682.5
10°	10845.1	10828.2	10828.2	10811.5	10794.6	10783.4	10772.2	10744.1	10716.1	10710.5	10688.1
12.5°	10990.8	10962.8	10946.1	10912.3	10884.3	10845.1	10811.5	10766.6	10710.5	10671.3	10632.0
15°	11136.7	11091.8	11052.6	10996.4	10934.8	10867.5	10794.6	10721.7	10632.0	10553.5	10486.2
17.5°	11254.4	11192.8	11119.8	11030.2	10940.5	10839.5	10733.0	10626.4	10497.4	10396.4	10317.9
20°	11293.6	11204.0	11108.7	10990.8	10873.1	10733.0	10598.4	10458.2	10312.3	10205.8	10116.1
22.5°	11243.3	11136.7	11018.9	10895.6	10738.5	10587.1	10430.2	10267.5	10138.5	9992.8	9908.6
25°	11103.0	10974.1	10845.1	10699.2	10547.9	10379.7	10211.5	10043.2	9886.1	9807.7	9701.2
27.5°	10817.1	10676.9	10536.7	10385.3	10211.5	10043.2	9869.4	9706.7	9572.2	9465.6	9404.0
30°	10312.3	10149.7	9987.1	9824.5	9673.1	9499.2	9336.6	9202.0	9067.4	8983.3	8921.7
32.5°	9538.5	9392.7	9230.1	9073.1	8933.0	8787.1	8652.5	8534.8	8439.4	8383.3	8338.4
35°	8495.5	8349.7	8226.3	8114.2	7996.4	7934.8	7850.7	7783.3	7744.0	7721.7	7716.1
37.5°	7183.3	7099.2	7059.9	7037.6	7015.1	6998.3	7009.4	7037.6	7059.9	7099.2	7144.0
40°	5781.4	5854.3	5876.8	5955.3	6028.1	6123.5	6230.1	6353.4	6454.3	6583.3	6673.0
42.5°	4502.9	4637.5	4794.5	4962.7	5142.2	5316.0	5529.1	5725.3	5904.8	6067.4	6207.6
45°	3459.9	3667.3	3902.9	4144.0	4385.2	4637.5	4895.5	5136.5	5349.6	5523.5	5669.3
47.5°	2697.2	2927.2	3230.0	3527.2	3818.8	4116.0	4401.9	4654.3	4833.7	5001.9	5130.9
50°	2136.5	2400.1	2730.9	3072.9	3392.6	3706.6	4009.4	4245.0	4424.4	4559.0	4654.3
52.5°	1654.2	1968.3	2304.7	2663.6	3005.7	3347.7	3628.1	3846.8	3992.6	4110.4	4183.2
55°	1233.6	1542.1	1901.0	2271.1	2618.8	2949.6	3213.1	3403.9	3532.8	3600.1	3639.3
57.5°	891.6	1172.0	1530.8	1901.0	2215.0	2529.0	2742.1	2916.0	2988.8	3028.1	3044.9
60°	650.5	908.5	1228.0	1547.7	1844.9	2097.2	2282.3	2400.1	2456.2	2478.5	2472.9
62.5°	476.7	701.0	975.7	1244.9	1486.0	1693.4	1839.3	1917.8	1945.9	1957.0	1940.3
65°	364.4	538.3	773.9	981.3	1166.4	1317.8	1424.4	1474.9	1491.6	1486.0	1474.9
67.5°	269.2	403.8	577.6	734.6	869.2	986.9	1043.1	1087.9	1099.0	1082.3	1065.4
70°	190.7	297.2	420.5	527.2	628.0	695.4	757.0	762.6	762.6	757.0	745.9
72.5°	134.6	207.5	285.9	358.9	420.5	471.0	493.4	510.3	504.7	499.0	487.9
75°	89.7	129.0	207.5	224.3	280.3	297.2	319.7	319.7	325.2	308.4	308.4
77.5°	56.1	89.7	123.4	145.9	168.2	190.7	201.8	201.8	207.5	201.8	201.8
80°	33.6	56.1	67.2	101.0	101.0	117.7	123.4	129.0	117.7	134.6	117.7
82.5°	22.4	33.6	50.5	50.5	61.7	72.9	72.9	78.5	78.5	72.9	72.9
85°	16.9	22.4	28.0	33.6	33.6	39.2	33.6	33.6	39.2	44.9	39.2
87.5°	5.6	11.2	5.6	11.2	11.2	22.4	16.9	16.9	16.9	22.4	22.4
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: P248523

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10564.6	10564.6	10564.6	10564.6
2.5°	10575.9	10581.5	10575.9	10575.9
5°	10626.4	10620.8	10626.4	10615.1
7.5°	10665.6	10665.6	10660.0	10660.0
10°	10665.6	10643.3	10643.3	10643.3
12.5°	10581.5	10553.5	10536.7	10525.4
15°	10435.7	10385.3	10362.8	10357.2
17.5°	10245.1	10200.2	10172.2	10155.3
20°	10026.4	9981.5	9947.9	9953.5
22.5°	9835.7	9785.3	9762.8	9751.5
25°	9645.1	9583.3	9566.6	9555.3
27.5°	9336.6	9303.0	9286.1	9269.4
30°	8865.6	8848.7	8820.7	8860.0
32.5°	8321.7	8293.6	8271.2	8288.1
35°	7721.7	7704.8	7721.7	7710.4
37.5°	7172.2	7188.9	7211.4	7222.5
40°	6740.4	6802.0	6824.5	6835.6
42.5°	6308.6	6381.4	6426.3	6454.3
45°	5775.8	5848.7	5899.1	5932.9
47.5°	5226.3	5288.0	5338.4	5332.9
50°	4727.2	4760.9	4783.2	4805.7
52.5°	4222.5	4222.5	4228.1	4228.1
55°	3650.6	3639.3	3633.7	3639.3
57.5°	3022.4	3011.3	3005.7	2988.8
60°	2450.5	2416.9	2394.4	2394.4
62.5°	1917.8	1878.5	1861.8	1856.2
65°	1441.1	1435.5	1401.9	1396.2
67.5°	1043.1	1020.6	998.2	1003.8
70°	734.6	701.0	701.0	689.7
72.5°	476.7	459.8	454.2	454.2
75°	297.2	297.2	285.9	308.4
77.5°	196.2	196.2	190.7	196.2
80°	117.7	117.7	117.7	112.1
82.5°	72.9	78.5	72.9	72.9
85°	39.2	44.9	33.6	50.5
87.5°	22.4	28.0	22.4	28.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)