

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: P248982

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20078.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

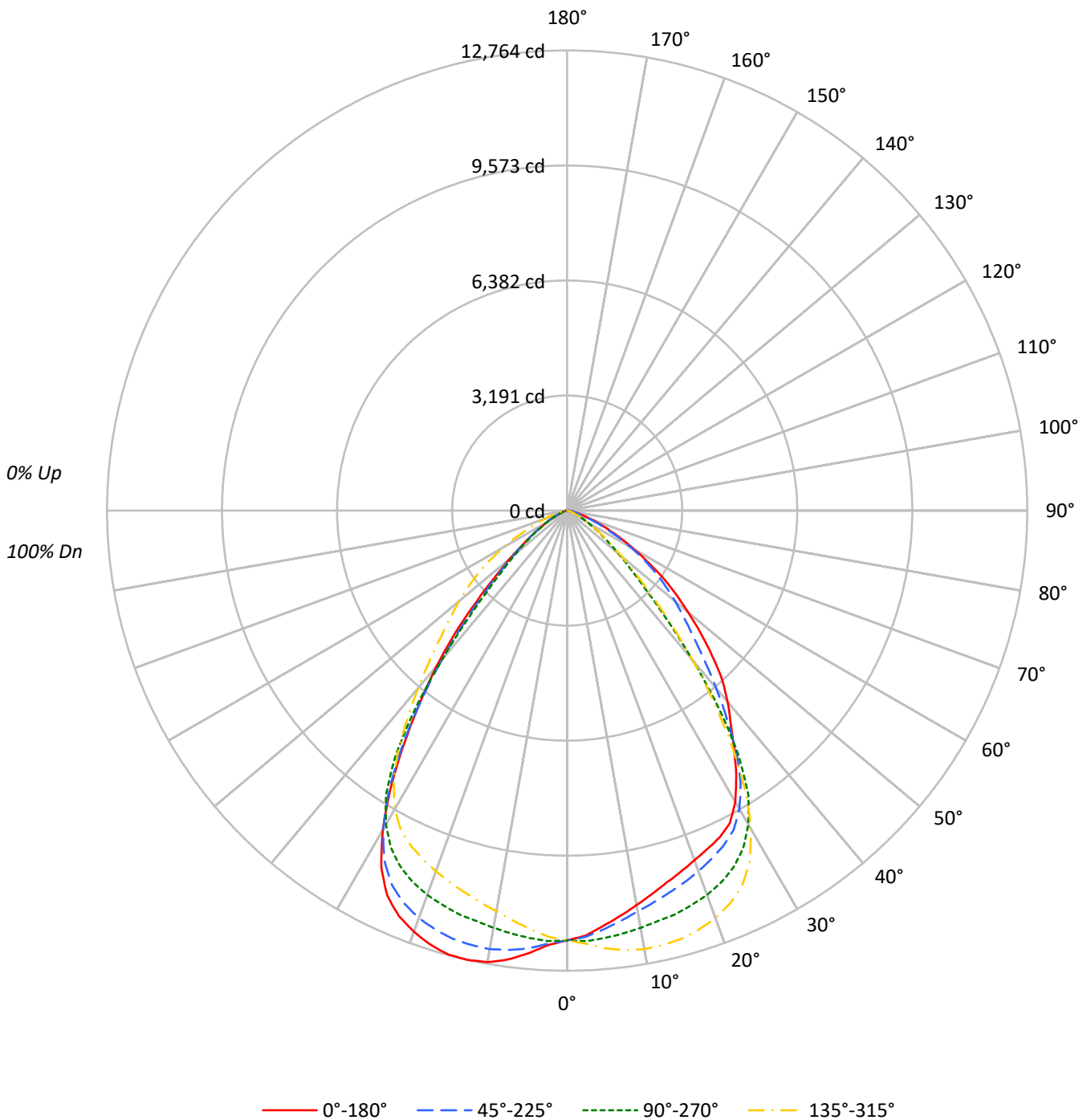
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	367560	367560	367560	367560
5°	357795	368422	381577	368422
10°	347898	367941	398192	367941
15°	340946	370125	406911	370125
20°	338628	372241	407957	372241
25°	340404	371492	401399	371492
30°	331990	357894	364328	357894
35°	303668	312210	296218	312210
40°	278799	217178	226791	217178
45°	247722	132489	153299	132489
50°	209679	88505	98282	88505
55°	173666	60390	63831	60390
60°	132454	40198	40556	40198
65°	93848	25049	22933	25049
70°	67692	16779	15228	16779
75°	42987	8340	6934	8340
80°	29993	6215	5150	6215
85°	26783	0	2017	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1134.5	5.7
10°-20°	3285.4	16.4
20°-30°	4974.8	24.8
30°-40°	4985.9	24.8
40°-50°	3130.9	15.6
50°-60°	1668.5	8.3
60°-70°	686.1	3.4
70°-80°	181.3	0.9
80°-90°	30.6	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°	9394.7	46.8
0°-40°	14380.6	71.6
0°-60°	19180.0	95.5
0°-90°	20078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20078.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11920	11920	11920	11920	11920	
5°	11559	11902	12327	11902	11559	###
15°	10680	11594	12746	11594	10680	3021
25°	10005	10918	11798	10918	10005	4589
35°	8067	8294	7869	8294	8067	5054
45°	5680	3038	3515	3038	5680	4369
55°	3230	1123	1187	1123	3230	2880
65°	1286	343	314	343	1286	1334
75°	361	70	58	70	361	409
85°	76	0	6	0	76	83
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°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	11797.5	11785.8	11780.0	11791.7	11797.5	11820.7	11815.0	11826.5	11826.5	11832.5	11844.0
5°	11558.9	11552.9	11558.9	11558.9	11582.1	11605.4	11599.6	11617.1	11628.6	11657.8	11669.3
7.5°	11337.8	11337.8	11331.8	11355.0	11366.8	11401.7	11395.7	11425.0	11442.5	11471.5	11512.2
10°	11110.7	11110.7	11116.4	11133.9	11139.9	11192.1	11192.1	11232.8	11256.1	11285.3	11337.8
12.5°	10889.6	10889.6	10924.5	10912.8	10936.0	10976.8	10994.2	11035.0	11069.9	11128.2	11180.6
15°	10679.9	10679.9	10691.7	10720.7	10738.2	10790.6	10819.6	10866.3	10907.0	10965.3	11041.0
17.5°	10499.5	10493.8	10499.5	10534.5	10569.5	10616.0	10639.2	10697.4	10738.2	10813.9	10883.8
20°	10319.2	10330.9	10330.9	10359.9	10383.1	10441.3	10464.6	10528.8	10575.2	10645.0	10726.7
22.5°	10162.0	10156.3	10156.3	10197.0	10214.5	10266.7	10289.9	10348.1	10400.6	10458.8	10534.5
25°	10004.8	9993.1	10016.6	10022.3	10033.8	10092.1	10109.5	10150.3	10202.7	10255.2	10330.9
27.5°	9772.0	9760.5	9766.2	9789.5	9807.0	9853.4	9865.2	9905.9	9946.6	9993.1	10057.3
30°	9323.8	9312.3	9306.5	9347.3	9364.7	9399.5	9417.0	9486.9	9498.4	9550.9	9597.4
32.5°	8730.1	8724.4	8736.1	8770.9	8788.4	8835.1	8858.3	8899.0	8928.0	8957.2	9003.7
35°	8066.8	8055.1	8066.8	8101.8	8101.8	8142.5	8160.0	8177.2	8171.5	8177.2	8165.7
37.5°	7449.9	7443.9	7449.9	7467.2	7449.9	7467.2	7449.9	7414.9	7351.0	7281.0	7211.1
40°	6926.0	6931.7	6897.0	6920.2	6856.0	6844.5	6780.6	6693.1	6565.2	6425.5	6227.7
42.5°	6367.3	6349.8	6326.6	6338.1	6285.9	6244.9	6140.2	6029.8	5866.6	5634.0	5395.2
45°	5680.5	5674.8	5663.0	5657.3	5622.3	5581.6	5494.1	5366.2	5185.8	4947.2	4661.9
47.5°	5011.2	4993.7	4993.7	4999.4	4958.7	4953.0	4883.0	4772.6	4615.4	4382.6	4085.7
50°	4370.8	4365.1	4376.8	4400.0	4370.8	4359.3	4312.8	4237.1	4097.5	3899.6	3620.0
52.5°	3794.7	3788.9	3800.7	3829.6	3817.9	3829.6	3783.2	3725.0	3631.8	3439.6	3195.3
55°	3230.3	3230.3	3230.3	3265.0	3265.0	3265.0	3241.8	3207.0	3119.6	2979.9	2753.1
57.5°	2642.4	2648.1	2683.1	2688.8	2683.1	2694.8	2688.8	2653.9	2595.9	2497.0	2322.3
60°	2147.7	2147.7	2165.2	2182.7	2176.7	2182.7	2182.7	2165.2	2107.0	2025.5	1885.8
62.5°	1699.5	1716.9	1705.2	1716.9	1740.2	1716.9	1705.2	1693.7	1653.0	1600.5	1484.1
65°	1286.2	1297.9	1297.9	1303.7	1292.0	1297.9	1274.7	1257.2	1234.0	1175.8	1100.1
67.5°	977.9	977.9	977.9	977.9	971.9	966.2	960.4	942.9	902.2	879.0	797.3
70°	750.8	715.8	715.8	715.8	715.8	721.8	704.3	681.1	669.3	628.6	570.4
72.5°	500.4	512.2	500.4	500.4	488.9	494.7	471.5	459.7	448.2	425.0	390.0
75°	360.8	331.8	343.3	349.3	331.8	343.3	320.1	296.8	296.8	279.3	261.8
77.5°	232.9	227.1	232.9	238.6	232.9	227.1	215.4	203.6	203.6	197.9	180.4
80°	168.9	162.9	162.9	162.9	157.2	162.9	151.4	151.4	139.7	133.9	122.2
82.5°	110.7	110.7	104.7	110.7	104.7	110.7	93.2	93.2	93.2	87.2	75.7
85°	75.7	64.0	64.0	70.0	58.2	70.0	64.0	58.2	52.5	52.5	46.5
87.5°	35.0	40.7	35.0	40.7	35.0	35.0	40.7	35.0	35.0	23.2	23.2
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°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	11861.5	11867.2	11867.2	11890.7	11902.2	11907.9	11907.9	11954.6	11937.2	11948.9	11960.4
5°	11692.8	11727.5	11739.3	11739.3	11803.2	11826.5	11849.7	11902.2	11907.9	11942.9	11983.6
7.5°	11529.7	11570.4	11593.9	11646.1	11686.8	11727.5	11797.5	11832.5	11867.2	11913.9	11966.1
10°	11372.5	11419.2	11465.7	11506.4	11570.4	11622.9	11669.3	11750.8	11791.7	11855.7	11925.4
12.5°	11221.3	11285.3	11326.0	11395.7	11465.7	11512.2	11582.1	11657.8	11721.8	11785.8	11867.2
15°	11087.4	11163.1	11209.6	11285.3	11361.0	11425.0	11500.7	11593.9	11640.3	11716.0	11791.7
17.5°	10941.8	11023.5	11081.7	11151.4	11244.6	11314.3	11378.5	11471.5	11529.7	11611.1	11698.6
20°	10790.6	10872.1	10941.8	11011.7	11104.9	11174.6	11250.3	11343.5	11407.5	11488.9	11558.9
22.5°	10610.2	10685.9	10761.4	10842.8	10936.0	10994.2	11081.7	11163.1	11232.8	11308.5	11378.5
25°	10377.4	10470.6	10528.8	10604.2	10679.9	10743.9	10837.1	10918.5	10976.8	11046.7	11110.7
27.5°	10103.8	10173.7	10220.2	10284.2	10359.9	10418.1	10487.8	10569.5	10627.7	10691.7	10738.2
30°	9638.1	9702.3	9743.0	9789.5	9865.2	9917.6	9975.9	10051.3	10092.1	10138.8	10179.5
32.5°	9027.0	9079.4	9102.7	9137.6	9190.1	9242.3	9289.0	9353.0	9370.5	9399.5	9399.5
35°	8142.5	8154.0	8148.2	8160.0	8183.2	8212.2	8252.9	8293.7	8316.9	8316.9	8299.6
37.5°	7106.4	7036.7	6961.0	6902.8	6885.3	6873.5	6897.0	6914.3	6937.7	6949.2	6920.2
40°	6029.8	5872.6	5703.7	5552.3	5447.7	5401.2	5383.7	5395.2	5395.2	5435.9	5435.9
42.5°	5104.4	4859.8	4609.7	4382.6	4231.2	4115.0	4062.5	4062.5	4068.3	4097.5	4115.0
45°	4336.1	4027.5	3736.5	3486.4	3276.7	3125.3	3055.6	3038.1	3032.4	3043.9	3084.6
47.5°	3748.2	3428.1	3125.3	2817.0	2595.9	2444.5	2380.5	2357.1	2333.8	2357.1	2363.0
50°	3288.5	2956.7	2636.6	2328.1	2095.2	1961.3	1879.8	1844.9	1839.1	1839.1	1850.9
52.5°	2869.2	2560.9	2240.9	1926.6	1682.0	1554.0	1478.3	1460.9	1437.6	1460.9	1460.9
55°	2473.5	2165.2	1850.9	1554.0	1350.2	1216.5	1146.5	1123.3	1111.6	1129.1	1129.1
57.5°	2043.0	1780.9	1490.1	1222.2	1018.6	925.4	873.0	844.0	838.0	849.7	838.0
60°	1676.2	1455.1	1204.8	960.4	803.3	704.3	663.6	651.8	640.1	651.8	651.8
62.5°	1326.9	1140.8	936.9	750.8	616.9	547.2	500.4	500.4	494.7	494.7	500.4
65°	983.6	838.0	692.6	535.4	430.7	378.3	343.3	343.3	337.5	343.3	337.5
67.5°	715.8	616.9	500.4	390.0	308.6	279.3	256.1	238.6	250.3	238.6	232.9
70°	523.9	442.2	360.8	296.8	238.6	209.6	192.1	186.1	174.6	174.6	174.6
72.5°	349.3	296.8	244.4	192.1	157.2	127.9	122.2	110.7	98.9	104.7	116.4
75°	232.9	197.9	174.6	139.7	104.7	104.7	70.0	70.0	58.2	70.0	52.5
77.5°	162.9	133.9	104.7	87.2	70.0	64.0	46.5	46.5	40.7	40.7	40.7
80°	116.4	98.9	75.7	64.0	46.5	46.5	40.7	35.0	29.0	29.0	35.0
82.5°	70.0	52.5	52.5	46.5	29.0	23.2	17.5	23.2	11.7	11.7	11.7
85°	40.7	35.0	29.0	17.5	11.7	11.7	5.7	0.0	5.7	5.7	0.0
87.5°	23.2	11.7	11.7	5.7	0.0	5.7	5.7	0.0	0.0	0.0	11.7
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°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	11989.6	11983.6	11995.4	11995.4	12030.4	12024.4	12041.8	12041.8	12030.4	12036.1	12059.3
5°	12030.4	12047.8	12082.6	12111.8	12164.0	12187.5	12216.5	12245.7	12251.5	12269.0	12286.4
7.5°	12030.4	12088.6	12129.3	12181.5	12251.5	12292.2	12356.2	12408.6	12431.9	12460.8	12495.8
10°	12006.9	12065.1	12140.8	12199.0	12286.4	12350.4	12414.4	12495.8	12530.8	12577.3	12624.0
12.5°	11960.4	12024.4	12105.8	12181.5	12280.5	12338.7	12420.1	12495.8	12548.3	12612.2	12664.7
15°	11890.7	11966.1	12041.8	12117.6	12222.2	12292.2	12367.9	12455.1	12507.6	12577.3	12624.0
17.5°	11780.0	11861.5	11931.4	12001.1	12100.1	12181.5	12251.5	12332.9	12385.4	12443.6	12507.6
20°	11646.1	11721.8	11797.5	11855.7	11954.6	12024.4	12100.1	12175.8	12216.5	12228.2	12327.2
22.5°	11477.4	11529.7	11587.9	11681.1	11739.3	11803.2	11873.2	11942.9	11983.6	12047.8	12082.6
25°	11197.9	11250.3	11314.3	11355.0	11425.0	11477.4	11547.2	11622.9	11646.1	11692.8	11727.5
27.5°	10808.1	10837.1	10866.3	10901.1	10941.8	10971.0	11011.7	11046.7	11069.9	11093.2	11116.4
30°	10191.0	10191.0	10191.0	10167.8	10185.2	10202.7	10208.5	10202.7	10202.7	10197.0	10197.0
32.5°	9376.2	9329.8	9277.3	9230.8	9213.3	9190.1	9178.4	9160.9	9131.9	9114.4	9120.1
35°	8276.2	8171.5	8107.5	8049.3	8002.8	7967.8	7950.4	7932.9	7927.1	7903.9	7880.4
37.5°	6902.8	6827.1	6780.6	6745.6	6704.9	6669.9	6675.6	6681.6	6698.9	6687.4	6693.1
40°	5447.7	5430.2	5447.7	5406.9	5395.2	5406.9	5435.9	5476.9	5500.1	5523.4	5564.1
42.5°	4144.0	4172.9	4213.9	4213.9	4231.2	4254.6	4289.4	4353.6	4388.3	4429.0	4475.7
45°	3119.6	3154.6	3207.0	3224.3	3236.0	3265.0	3306.0	3358.2	3381.4	3416.4	3457.1
47.5°	2403.8	2427.0	2456.0	2485.2	2514.2	2525.9	2566.7	2566.7	2595.9	2619.1	2630.6
50°	1874.1	1897.3	1920.6	1938.1	1949.8	1967.3	1978.8	1996.3	2002.0	2013.8	2019.5
52.5°	1466.6	1495.8	1495.8	1507.3	1524.8	1542.3	1536.6	1542.3	1548.1	1548.1	1565.5
55°	1146.5	1146.5	1164.0	1164.0	1175.8	1169.8	1175.8	1175.8	1175.8	1175.8	1181.5
57.5°	855.5	861.5	879.0	867.2	861.5	873.0	861.5	873.0	867.2	879.0	861.5
60°	657.6	657.6	663.6	663.6	669.3	669.3	669.3	663.6	663.6	657.6	657.6
62.5°	494.7	500.4	506.4	500.4	500.4	500.4	494.7	494.7	488.9	483.0	483.0
65°	331.8	326.0	337.5	326.0	331.8	331.8	326.0	331.8	314.3	320.1	314.3
67.5°	238.6	232.9	227.1	232.9	227.1	221.1	221.1	227.1	232.9	215.4	215.4
70°	157.2	162.9	157.2	162.9	168.9	168.9	162.9	157.2	162.9	151.4	157.2
72.5°	98.9	98.9	98.9	98.9	98.9	104.7	104.7	104.7	93.2	93.2	87.2
75°	46.5	64.0	52.5	46.5	64.0	64.0	58.2	58.2	52.5	52.5	52.5
77.5°	46.5	35.0	35.0	35.0	35.0	35.0	35.0	35.0	29.0	35.0	29.0
80°	23.2	23.2	23.2	17.5	23.2	23.2	29.0	23.2	23.2	17.5	29.0
82.5°	11.7	11.7	11.7	0.0	5.7	11.7	11.7	5.7	11.7	11.7	5.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P248982

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	12053.6	12047.8	12053.6	12059.3	12053.6	12047.8	12053.6	12059.3	12036.1	12030.4	12041.8
5°	12309.7	12309.7	12321.2	12327.2	12321.2	12309.7	12309.7	12286.4	12269.0	12251.5	12245.7
7.5°	12530.8	12542.5	12554.0	12559.8	12554.0	12542.5	12530.8	12495.8	12460.8	12431.9	12408.6
10°	12664.7	12682.2	12705.4	12716.9	12705.4	12682.2	12664.7	12624.0	12577.3	12530.8	12495.8
12.5°	12722.9	12740.4	12769.4	12763.7	12769.4	12740.4	12722.9	12664.7	12612.2	12548.3	12495.8
15°	12682.2	12705.4	12734.4	12746.2	12734.4	12705.4	12682.2	12624.0	12577.3	12507.6	12455.1
17.5°	12554.0	12589.0	12606.5	12624.0	12606.5	12589.0	12554.0	12507.6	12443.6	12385.4	12332.9
20°	12379.4	12402.9	12426.1	12431.9	12426.1	12402.9	12379.4	12327.2	12228.2	12216.5	12175.8
22.5°	12129.3	12146.8	12199.0	12181.5	12199.0	12146.8	12129.3	12082.6	12047.8	11983.6	11942.9
25°	11768.3	11785.8	11791.7	11797.5	11791.7	11785.8	11768.3	11727.5	11692.8	11646.1	11622.9
27.5°	11145.6	11145.6	11157.1	11163.1	11157.1	11145.6	11145.6	11116.4	11093.2	11069.9	11046.7
30°	10202.7	10202.7	10202.7	10232.0	10202.7	10202.7	10202.7	10197.0	10197.0	10202.7	10202.7
32.5°	9114.4	9102.7	9091.2	9102.7	9091.2	9102.7	9114.4	9120.1	9114.4	9131.9	9160.9
35°	7880.4	7874.7	7892.1	7868.9	7892.1	7874.7	7880.4	7880.4	7903.9	7927.1	7932.9
37.5°	6698.9	6687.4	6710.6	6687.4	6710.6	6687.4	6698.9	6693.1	6687.4	6698.9	6681.6
40°	5575.8	5587.3	5587.3	5634.0	5587.3	5587.3	5575.8	5564.1	5523.4	5500.1	5476.9
42.5°	4499.0	4534.0	4522.2	4557.2	4522.2	4534.0	4499.0	4475.7	4429.0	4388.3	4353.6
45°	3480.4	3503.8	3503.8	3515.3	3503.8	3503.8	3480.4	3457.1	3416.4	3381.4	3358.2
47.5°	2671.4	2671.4	2671.4	2677.4	2671.4	2671.4	2671.4	2630.6	2619.1	2595.9	2566.7
50°	2031.3	2037.0	2043.0	2048.7	2043.0	2037.0	2031.3	2019.5	2013.8	2002.0	1996.3
52.5°	1559.8	1565.5	1554.0	1565.5	1554.0	1565.5	1559.8	1565.5	1548.1	1548.1	1542.3
55°	1181.5	1175.8	1181.5	1187.3	1181.5	1175.8	1181.5	1181.5	1175.8	1175.8	1175.8
57.5°	867.2	855.5	855.5	855.5	855.5	855.5	867.2	861.5	879.0	867.2	873.0
60°	646.1	651.8	651.8	657.6	651.8	651.8	646.1	657.6	657.6	663.6	663.6
62.5°	477.2	494.7	483.0	494.7	483.0	494.7	477.2	483.0	483.0	488.9	494.7
65°	308.6	308.6	308.6	314.3	308.6	308.6	308.6	314.3	320.1	314.3	331.8
67.5°	209.6	215.4	227.1	221.1	227.1	215.4	209.6	215.4	215.4	232.9	227.1
70°	168.9	151.4	151.4	168.9	151.4	151.4	168.9	157.2	151.4	162.9	157.2
72.5°	98.9	87.2	98.9	98.9	98.9	87.2	98.9	87.2	93.2	93.2	104.7
75°	52.5	46.5	40.7	58.2	40.7	46.5	52.5	52.5	52.5	52.5	58.2
77.5°	35.0	29.0	40.7	40.7	40.7	29.0	35.0	29.0	35.0	29.0	35.0
80°	17.5	23.2	17.5	29.0	17.5	23.2	17.5	29.0	17.5	23.2	23.2
82.5°	5.7	11.7	11.7	11.7	11.7	11.7	5.7	5.7	11.7	11.7	5.7
85°	0.0	11.7	5.7	5.7	5.7	11.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.0	0.0	5.7	0.0	0.0	5.7	0.0	0.0	0.0	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



TEST NUMBER: P248982

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	12041.8	12024.4	12030.4	11995.4	11995.4	11983.6	11989.6	11960.4	11948.9	11937.2	11954.6
5°	12216.5	12187.5	12164.0	12111.8	12082.6	12047.8	12030.4	11983.6	11942.9	11907.9	11902.2
7.5°	12356.2	12292.2	12251.5	12181.5	12129.3	12088.6	12030.4	11966.1	11913.9	11867.2	11832.5
10°	12414.4	12350.4	12286.4	12199.0	12140.8	12065.1	12006.9	11925.4	11855.7	11791.7	11750.8
12.5°	12420.1	12338.7	12280.5	12181.5	12105.8	12024.4	11960.4	11867.2	11785.8	11721.8	11657.8
15°	12367.9	12292.2	12222.2	12117.6	12041.8	11966.1	11890.7	11791.7	11716.0	11640.3	11593.9
17.5°	12251.5	12181.5	12100.1	12001.1	11931.4	11861.5	11780.0	11698.6	11611.1	11529.7	11471.5
20°	12100.1	12024.4	11954.6	11855.7	11797.5	11721.8	11646.1	11558.9	11488.9	11407.5	11343.5
22.5°	11873.2	11803.2	11739.3	11681.1	11587.9	11529.7	11477.4	11378.5	11308.5	11232.8	11163.1
25°	11547.2	11477.4	11425.0	11355.0	11314.3	11250.3	11197.9	11110.7	11046.7	10976.8	10918.5
27.5°	11011.7	10971.0	10941.8	10901.1	10866.3	10837.1	10808.1	10738.2	10691.7	10627.7	10569.5
30°	10208.5	10202.7	10185.2	10167.8	10191.0	10191.0	10191.0	10179.5	10138.8	10092.1	10051.3
32.5°	9178.4	9190.1	9213.3	9230.8	9277.3	9329.8	9376.2	9399.5	9399.5	9370.5	9353.0
35°	7950.4	7967.8	8002.8	8049.3	8107.5	8171.5	8276.2	8299.6	8316.9	8316.9	8293.7
37.5°	6675.6	6669.9	6704.9	6745.6	6780.6	6827.1	6902.8	6920.2	6949.2	6937.7	6914.3
40°	5435.9	5406.9	5395.2	5406.9	5447.7	5430.2	5447.7	5435.9	5435.9	5395.2	5395.2
42.5°	4289.4	4254.6	4231.2	4213.9	4213.9	4172.9	4144.0	4115.0	4097.5	4068.3	4062.5
45°	3306.0	3265.0	3236.0	3224.3	3207.0	3154.6	3119.6	3084.6	3043.9	3032.4	3038.1
47.5°	2566.7	2525.9	2514.2	2485.2	2456.0	2427.0	2403.8	2363.0	2357.1	2333.8	2357.1
50°	1978.8	1967.3	1949.8	1938.1	1920.6	1897.3	1874.1	1850.9	1839.1	1839.1	1844.9
52.5°	1536.6	1542.3	1524.8	1507.3	1495.8	1495.8	1466.6	1460.9	1460.9	1437.6	1460.9
55°	1175.8	1169.8	1175.8	1164.0	1164.0	1146.5	1146.5	1129.1	1129.1	1111.6	1123.3
57.5°	861.5	873.0	861.5	867.2	879.0	861.5	855.5	838.0	849.7	838.0	844.0
60°	669.3	669.3	669.3	663.6	663.6	657.6	657.6	651.8	651.8	640.1	651.8
62.5°	494.7	500.4	500.4	500.4	506.4	500.4	494.7	500.4	494.7	494.7	500.4
65°	326.0	331.8	331.8	326.0	337.5	326.0	331.8	337.5	343.3	337.5	343.3
67.5°	221.1	221.1	227.1	232.9	227.1	232.9	238.6	232.9	238.6	250.3	238.6
70°	162.9	168.9	168.9	162.9	157.2	162.9	157.2	174.6	174.6	174.6	186.1
72.5°	104.7	104.7	98.9	98.9	98.9	98.9	98.9	116.4	104.7	98.9	110.7
75°	58.2	64.0	64.0	46.5	52.5	64.0	46.5	52.5	70.0	58.2	70.0
77.5°	35.0	35.0	35.0	35.0	35.0	35.0	46.5	40.7	40.7	40.7	46.5
80°	29.0	23.2	23.2	17.5	23.2	23.2	23.2	35.0	29.0	29.0	35.0
82.5°	11.7	11.7	5.7	0.0	11.7	11.7	11.7	11.7	11.7	11.7	23.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0	0.0	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



TEST NUMBER: P248982

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	11907.9	11907.9	11902.2	11890.7	11867.2	11867.2	11861.5	11844.0	11832.5	11826.5	11826.5
5°	11849.7	11826.5	11803.2	11739.3	11739.3	11727.5	11692.8	11669.3	11657.8	11628.6	11617.1
7.5°	11797.5	11727.5	11686.8	11646.1	11593.9	11570.4	11529.7	11512.2	11471.5	11442.5	11425.0
10°	11669.3	11622.9	11570.4	11506.4	11465.7	11419.2	11372.5	11337.8	11285.3	11256.1	11232.8
12.5°	11582.1	11512.2	11465.7	11395.7	11326.0	11285.3	11221.3	11180.6	11128.2	11069.9	11035.0
15°	11500.7	11425.0	11361.0	11285.3	11209.6	11163.1	11087.4	11041.0	10965.3	10907.0	10866.3
17.5°	11378.5	11314.3	11244.6	11151.4	11081.7	11023.5	10941.8	10883.8	10813.9	10738.2	10697.4
20°	11250.3	11174.6	11104.9	11011.7	10941.8	10872.1	10790.6	10726.7	10645.0	10575.2	10528.8
22.5°	11081.7	10994.2	10936.0	10842.8	10761.4	10685.9	10610.2	10534.5	10458.8	10400.6	10348.1
25°	10837.1	10743.9	10679.9	10604.2	10528.8	10470.6	10377.4	10330.9	10255.2	10202.7	10150.3
27.5°	10487.8	10418.1	10359.9	10284.2	10220.2	10173.7	10103.8	10057.3	9993.1	9946.6	9905.9
30°	9975.9	9917.6	9865.2	9789.5	9743.0	9702.3	9638.1	9597.4	9550.9	9498.4	9486.9
32.5°	9289.0	9242.3	9190.1	9137.6	9102.7	9079.4	9027.0	9003.7	8957.2	8928.0	8899.0
35°	8252.9	8212.2	8183.2	8160.0	8148.2	8154.0	8142.5	8165.7	8177.2	8171.5	8177.2
37.5°	6897.0	6873.5	6885.3	6902.8	6961.0	7036.7	7106.4	7211.1	7281.0	7351.0	7414.9
40°	5383.7	5401.2	5447.7	5552.3	5703.7	5872.6	6029.8	6227.7	6425.5	6565.2	6693.1
42.5°	4062.5	4115.0	4231.2	4382.6	4609.7	4859.8	5104.4	5395.2	5634.0	5866.6	6029.8
45°	3055.6	3125.3	3276.7	3486.4	3736.5	4027.5	4336.1	4661.9	4947.2	5185.8	5366.2
47.5°	2380.5	2444.5	2595.9	2817.0	3125.3	3428.1	3748.2	4085.7	4382.6	4615.4	4772.6
50°	1879.8	1961.3	2095.2	2328.1	2636.6	2956.7	3288.5	3620.0	3899.6	4097.5	4237.1
52.5°	1478.3	1554.0	1682.0	1926.6	2240.9	2560.9	2869.2	3195.3	3439.6	3631.8	3725.0
55°	1146.5	1216.5	1350.2	1554.0	1850.9	2165.2	2473.5	2753.1	2979.9	3119.6	3207.0
57.5°	873.0	925.4	1018.6	1222.2	1490.1	1780.9	2043.0	2322.3	2497.0	2595.9	2653.9
60°	663.6	704.3	803.3	960.4	1204.8	1455.1	1676.2	1885.8	2025.5	2107.0	2165.2
62.5°	500.4	547.2	616.9	750.8	936.9	1140.8	1326.9	1484.1	1600.5	1653.0	1693.7
65°	343.3	378.3	430.7	535.4	692.6	838.0	983.6	1100.1	1175.8	1234.0	1257.2
67.5°	256.1	279.3	308.6	390.0	500.4	616.9	715.8	797.3	879.0	902.2	942.9
70°	192.1	209.6	238.6	296.8	360.8	442.2	523.9	570.4	628.6	669.3	681.1
72.5°	122.2	127.9	157.2	192.1	244.4	296.8	349.3	390.0	425.0	448.2	459.7
75°	70.0	104.7	104.7	139.7	174.6	197.9	232.9	261.8	279.3	296.8	296.8
77.5°	46.5	64.0	70.0	87.2	104.7	133.9	162.9	180.4	197.9	203.6	203.6
80°	40.7	46.5	46.5	64.0	75.7	98.9	116.4	122.2	133.9	139.7	151.4
82.5°	17.5	23.2	29.0	46.5	52.5	52.5	70.0	75.7	87.2	93.2	93.2
85°	5.7	11.7	11.7	17.5	29.0	35.0	40.7	46.5	52.5	52.5	58.2
87.5°	5.7	5.7	0.0	5.7	11.7	11.7	23.2	23.2	23.2	35.0	35.0
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: P248982

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7	11919.7
2.5°	11815.0	11820.7	11797.5	11791.7	11780.0	11785.8	11797.5
5°	11599.6	11605.4	11582.1	11558.9	11558.9	11552.9	11558.9
7.5°	11395.7	11401.7	11366.8	11355.0	11331.8	11337.8	11337.8
10°	11192.1	11192.1	11139.9	11133.9	11116.4	11110.7	11110.7
12.5°	10994.2	10976.8	10936.0	10912.8	10924.5	10889.6	10889.6
15°	10819.6	10790.6	10738.2	10720.7	10691.7	10679.9	10679.9
17.5°	10639.2	10616.0	10569.5	10534.5	10499.5	10493.8	10499.5
20°	10464.6	10441.3	10383.1	10359.9	10330.9	10330.9	10319.2
22.5°	10289.9	10266.7	10214.5	10197.0	10156.3	10156.3	10162.0
25°	10109.5	10092.1	10033.8	10022.3	10016.6	9993.1	10004.8
27.5°	9865.2	9853.4	9807.0	9789.5	9766.2	9760.5	9772.0
30°	9417.0	9399.5	9364.7	9347.3	9306.5	9312.3	9323.8
32.5°	8858.3	8835.1	8788.4	8770.9	8736.1	8724.4	8730.1
35°	8160.0	8142.5	8101.8	8101.8	8066.8	8055.1	8066.8
37.5°	7449.9	7467.2	7449.9	7467.2	7449.9	7443.9	7449.9
40°	6780.6	6844.5	6856.0	6920.2	6897.0	6931.7	6926.0
42.5°	6140.2	6244.9	6285.9	6338.1	6326.6	6349.8	6367.3
45°	5494.1	5581.6	5622.3	5657.3	5663.0	5674.8	5680.5
47.5°	4883.0	4953.0	4958.7	4999.4	4993.7	4993.7	5011.2
50°	4312.8	4359.3	4370.8	4400.0	4376.8	4365.1	4370.8
52.5°	3783.2	3829.6	3817.9	3829.6	3800.7	3788.9	3794.7
55°	3241.8	3265.0	3265.0	3265.0	3230.3	3230.3	3230.3
57.5°	2688.8	2694.8	2683.1	2688.8	2683.1	2648.1	2642.4
60°	2182.7	2182.7	2176.7	2182.7	2165.2	2147.7	2147.7
62.5°	1705.2	1716.9	1740.2	1716.9	1705.2	1716.9	1699.5
65°	1274.7	1297.9	1292.0	1303.7	1297.9	1297.9	1286.2
67.5°	960.4	966.2	971.9	977.9	977.9	977.9	977.9
70°	704.3	721.8	715.8	715.8	715.8	715.8	750.8
72.5°	471.5	494.7	488.9	500.4	500.4	512.2	500.4
75°	320.1	343.3	331.8	349.3	343.3	331.8	360.8
77.5°	215.4	227.1	232.9	238.6	232.9	227.1	232.9
80°	151.4	162.9	157.2	162.9	162.9	162.9	168.9
82.5°	93.2	110.7	104.7	110.7	104.7	110.7	110.7
85°	64.0	70.0	58.2	70.0	64.0	64.0	75.7
87.5°	40.7	35.0	35.0	40.7	35.0	40.7	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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