

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: P249063

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249063
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 ER8B200950 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19735.0 lumens
Efficiency: N/A
Efficacy: 88.4 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

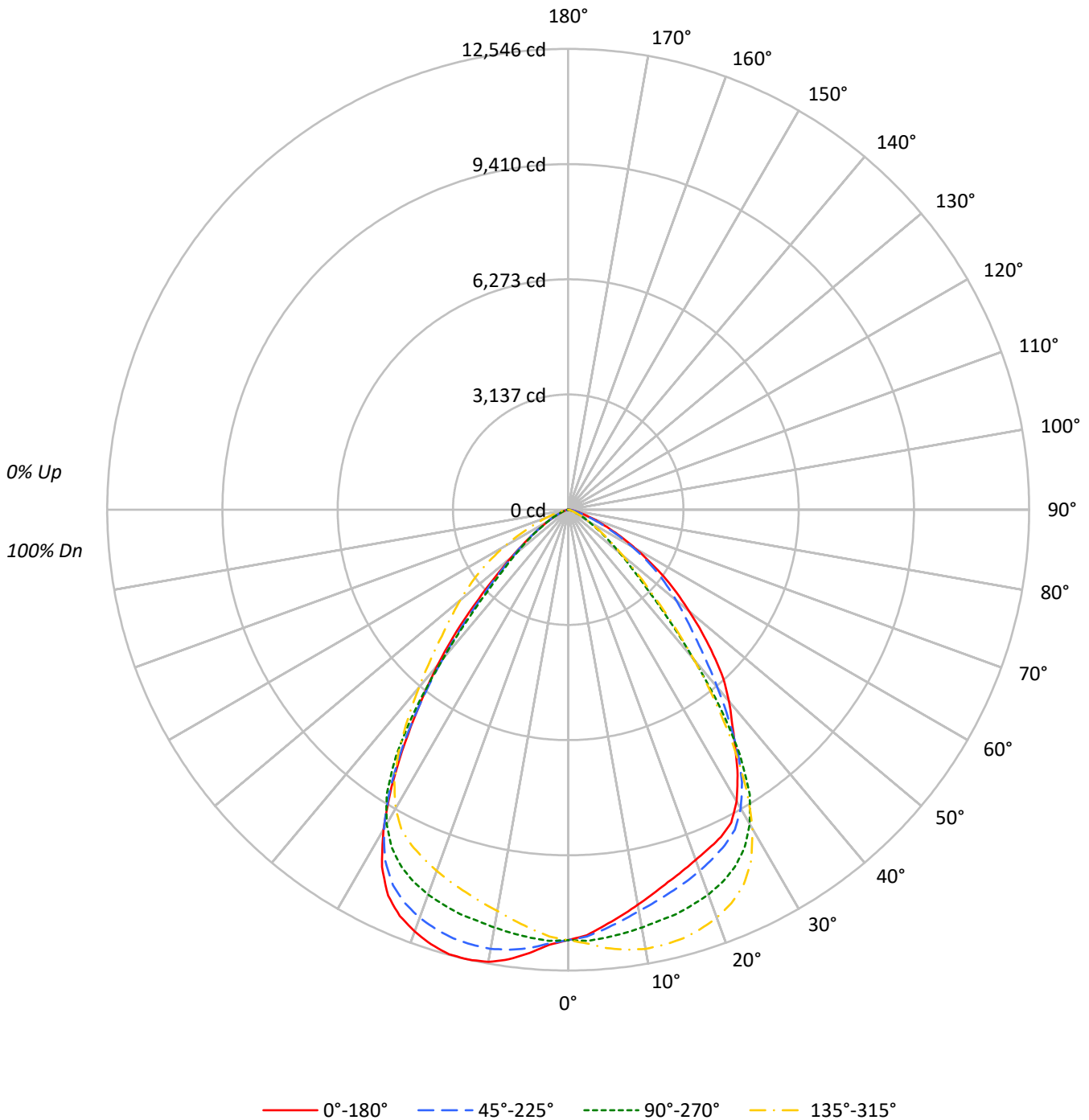
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	361278	361278	361278	361278
5°	351682	362129	375058	362129
10°	341955	361654	391391	361654
15°	335123	363801	399958	363801
20°	332843	365881	400987	365881
25°	334590	365147	394544	365147
30°	326318	351780	358104	351780
35°	298481	306875	291159	306875
40°	274037	213467	222918	213467
45°	243492	130226	150683	130226
50°	206096	86994	96603	86994
55°	170698	59358	62740	59358
60°	130191	39514	39865	39514
65°	92242	24618	22539	24618
70°	66538	16499	14966	16499
75°	42248	8197	6815	8197
80°	29478	6109	5061	6109
85°	26323	0	2017	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1115.1	5.7
10°-20°	3229.3	16.4
20°-30°	4889.8	24.8
30°-40°	4900.8	24.8
40°-50°	3077.4	15.6
50°-60°	1640.0	8.3
60°-70°	674.4	3.4
70°-80°	178.2	0.9
80°-90°	30.1	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°	9234.2	46.8
0°-40°	14134.9	71.6
0°-60°	18852.3	95.5
0°-90°	19735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19735.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11716	11716	11716	11716	11716	
5°	11361	11699	12117	11699	11361	###
15°	10498	11396	12528	11396	10498	2969
25°	9834	10732	11596	10732	9834	4510
35°	7929	8152	7734	8152	7929	4967
45°	5584	2986	3455	2986	5584	4294
55°	3175	1104	1167	1104	3175	2831
65°	1264	337	309	337	1264	1311
75°	355	69	57	69	355	402
85°	74	0	6	0	74	82
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°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11596.0	11584.4	11578.8	11590.3	11596.0	11618.8	11613.1	11624.4	11624.4	11630.3	11641.6
5°	11361.4	11355.5	11361.4	11361.4	11384.3	11407.1	11401.5	11418.6	11429.9	11458.7	11470.0
7.5°	11144.1	11144.1	11138.2	11161.0	11172.6	11207.0	11201.1	11229.8	11247.0	11275.5	11315.5
10°	10920.9	10920.9	10926.5	10943.7	10949.6	11000.9	11000.9	11041.0	11063.8	11092.5	11144.1
12.5°	10703.5	10703.5	10737.9	10726.4	10749.2	10789.2	10806.4	10846.5	10880.8	10938.1	10989.6
15°	10497.5	10497.5	10509.0	10537.5	10554.7	10606.3	10634.8	10680.7	10720.7	10777.9	10852.3
17.5°	10320.2	10314.5	10320.2	10354.6	10388.9	10434.6	10457.5	10514.7	10554.7	10629.1	10697.9
20°	10142.9	10154.4	10154.4	10182.9	10205.7	10263.0	10285.8	10348.9	10394.6	10463.1	10543.4
22.5°	9988.4	9982.7	9982.7	10022.8	10040.0	10091.3	10114.1	10171.4	10222.9	10280.1	10354.6
25°	9833.9	9822.4	9845.5	9851.1	9862.4	9919.6	9936.8	9976.9	10028.4	10080.0	10154.4
27.5°	9605.1	9593.8	9599.4	9622.2	9639.4	9685.1	9696.7	9736.7	9776.7	9822.4	9885.5
30°	9164.5	9153.2	9147.5	9187.6	9204.8	9238.9	9256.1	9324.8	9336.1	9387.7	9433.4
32.5°	8581.0	8575.3	8586.9	8621.0	8638.2	8684.1	8707.0	8747.0	8775.5	8804.2	8849.9
35°	7929.0	7917.4	7929.0	7963.4	7963.4	8003.4	8020.6	8037.5	8031.9	8037.5	8026.2
37.5°	7322.6	7316.8	7322.6	7339.6	7322.6	7339.6	7322.6	7288.3	7225.4	7156.6	7087.9
40°	6807.7	6813.3	6779.2	6802.0	6738.9	6727.6	6664.7	6578.8	6453.1	6315.8	6121.3
42.5°	6258.6	6241.4	6218.5	6229.8	6178.5	6138.2	6035.3	5926.8	5766.4	5537.8	5303.0
45°	5583.5	5577.8	5566.3	5560.6	5526.2	5486.2	5400.3	5274.5	5097.2	4862.7	4582.2
47.5°	4925.6	4908.4	4908.4	4914.0	4874.0	4868.3	4799.6	4691.0	4536.6	4307.7	4015.9
50°	4296.1	4290.5	4302.0	4324.9	4296.1	4284.8	4239.2	4164.8	4027.5	3833.0	3558.2
52.5°	3729.8	3724.2	3735.7	3764.2	3752.7	3764.2	3718.5	3661.3	3569.7	3380.9	3140.7
55°	3175.1	3175.1	3175.1	3209.2	3209.2	3209.2	3186.4	3152.2	3066.3	2929.0	2706.0
57.5°	2597.2	2602.9	2637.3	2642.9	2637.3	2648.8	2642.9	2608.5	2551.6	2454.3	2282.6
60°	2111.0	2111.0	2128.2	2145.4	2139.5	2145.4	2145.4	2128.2	2071.0	1990.9	1853.6
62.5°	1670.4	1687.6	1676.1	1687.6	1710.5	1687.6	1676.1	1664.8	1624.7	1573.2	1458.7
65°	1264.2	1275.8	1275.8	1281.4	1269.9	1275.8	1252.9	1235.7	1212.9	1155.7	1081.3
67.5°	961.2	961.2	961.2	961.2	955.3	949.7	944.0	926.8	886.8	863.9	783.6
70°	738.0	703.6	703.6	703.6	703.6	709.5	692.3	669.4	657.9	617.9	560.7
72.5°	491.9	503.4	491.9	491.9	480.6	486.2	463.4	451.9	440.6	417.7	383.3
75°	354.6	326.1	337.4	343.3	326.1	337.4	314.6	291.7	291.7	274.6	257.4
77.5°	228.9	223.2	228.9	234.5	228.9	223.2	211.7	200.1	200.1	194.5	177.3
80°	166.0	160.1	160.1	160.1	154.5	160.1	148.8	148.8	137.3	131.6	120.1
82.5°	108.8	108.8	102.9	108.8	102.9	108.8	91.6	91.6	91.6	85.7	74.4
85°	74.4	62.9	62.9	68.8	57.2	68.8	62.9	57.2	51.6	51.6	45.7
87.5°	34.4	40.0	34.4	40.0	34.4	34.4	40.0	34.4	34.4	22.8	22.8
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°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11658.8	11664.5	11664.5	11687.6	11698.9	11704.5	11704.5	11750.4	11733.2	11744.8	11756.1
5°	11493.1	11527.2	11538.7	11538.7	11601.6	11624.4	11647.3	11698.9	11704.5	11738.9	11778.9
7.5°	11332.7	11372.7	11395.8	11447.1	11487.2	11527.2	11596.0	11630.3	11664.5	11710.4	11761.7
10°	11178.2	11224.1	11269.8	11309.9	11372.7	11424.3	11470.0	11550.0	11590.3	11653.2	11721.7
12.5°	11029.6	11092.5	11132.5	11201.1	11269.8	11315.5	11384.3	11458.7	11521.5	11584.4	11664.5
15°	10898.0	10972.4	11018.1	11092.5	11166.9	11229.8	11304.2	11395.8	11441.5	11515.9	11590.3
17.5°	10754.9	10835.2	10892.4	10960.9	11052.5	11121.0	11184.1	11275.5	11332.7	11412.8	11498.7
20°	10606.3	10686.3	10754.9	10823.6	10915.2	10983.7	11058.1	11149.7	11212.6	11292.7	11361.4
22.5°	10429.0	10503.4	10577.5	10657.6	10749.2	10806.4	10892.4	10972.4	11041.0	11115.4	11184.1
25°	10200.1	10291.7	10348.9	10423.1	10497.5	10560.4	10652.0	10732.0	10789.2	10858.0	10920.9
27.5°	9931.2	9999.9	10045.6	10108.5	10182.9	10240.1	10308.6	10388.9	10446.2	10509.0	10554.7
30°	9473.4	9536.5	9576.6	9622.2	9696.7	9748.2	9805.4	9879.6	9919.6	9965.6	10005.6
32.5°	8872.7	8924.3	8947.2	8981.5	9033.1	9084.4	9130.3	9193.2	9210.4	9238.9	9238.9
35°	8003.4	8014.7	8009.0	8020.6	8043.4	8071.9	8111.9	8152.0	8174.8	8174.8	8157.9
37.5°	6985.0	6916.5	6842.1	6784.8	6767.6	6756.1	6779.2	6796.1	6819.2	6830.5	6802.0
40°	5926.8	5772.3	5606.3	5457.5	5354.6	5308.9	5291.7	5303.0	5303.0	5343.0	5343.0
42.5°	5017.2	4776.7	4530.9	4307.7	4158.9	4044.7	3993.1	3993.1	3998.8	4027.5	4044.7
45°	4262.0	3958.7	3672.6	3426.8	3220.8	3071.9	3003.4	2986.2	2980.6	2991.9	3031.9
47.5°	3684.2	3369.6	3071.9	2768.9	2551.6	2402.7	2339.9	2316.8	2293.9	2316.8	2322.7
50°	3232.3	2906.2	2591.6	2288.3	2059.4	1927.8	1847.7	1813.4	1807.7	1807.7	1819.2
52.5°	2820.2	2517.2	2202.6	1893.6	1653.2	1527.5	1453.1	1435.9	1413.1	1435.9	1435.9
55°	2431.2	2128.2	1819.2	1527.5	1327.1	1195.7	1127.0	1104.1	1092.6	1109.8	1109.8
57.5°	2008.1	1750.5	1464.6	1201.4	1001.2	909.6	858.1	829.6	823.7	835.2	823.7
60°	1647.6	1430.2	1184.2	944.0	789.5	692.3	652.3	640.7	629.2	640.7	640.7
62.5°	1304.3	1121.3	920.9	738.0	606.3	537.8	491.9	491.9	486.2	486.2	491.9
65°	966.8	823.7	680.7	526.3	423.4	371.8	337.4	337.4	331.8	337.4	331.8
67.5°	703.6	606.3	491.9	383.3	303.3	274.6	251.7	234.5	246.1	234.5	228.9
70°	515.0	434.7	354.6	291.7	234.5	206.0	188.8	183.0	171.7	171.7	171.7
72.5°	343.3	291.7	240.2	188.8	154.5	125.7	120.1	108.8	97.2	102.9	114.4
75°	228.9	194.5	171.7	137.3	102.9	102.9	68.8	68.8	57.2	68.8	51.6
77.5°	160.1	131.6	102.9	85.7	68.8	62.9	45.7	45.7	40.0	40.0	40.0
80°	114.4	97.2	74.4	62.9	45.7	45.7	40.0	34.4	28.5	28.5	34.4
82.5°	68.8	51.6	51.6	45.7	28.5	22.8	17.2	22.8	11.5	11.5	11.5
85°	40.0	34.4	28.5	17.2	11.5	11.5	5.7	0.0	5.7	5.7	0.0
87.5°	22.8	11.5	11.5	5.7	0.0	5.7	5.7	0.0	0.0	0.0	11.5
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°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11784.8	11778.9	11790.5	11790.5	11824.8	11818.9	11836.1	11836.1	11824.8	11830.5	11853.3
5°	11824.8	11842.0	11876.2	11904.9	11956.2	11979.3	12007.8	12036.5	12042.2	12059.4	12076.5
7.5°	11824.8	11882.1	11922.1	11973.4	12042.2	12082.2	12145.1	12196.6	12219.5	12248.0	12282.3
10°	11801.8	11859.0	11933.4	11990.6	12076.5	12139.4	12202.3	12282.3	12316.7	12362.4	12408.3
12.5°	11756.1	11818.9	11899.0	11973.4	12070.7	12127.9	12207.9	12282.3	12333.9	12396.8	12448.4
15°	11687.6	11761.7	11836.1	11910.5	12013.4	12082.2	12156.6	12242.3	12293.9	12362.4	12408.3
17.5°	11578.8	11658.8	11727.6	11796.1	11893.4	11973.4	12042.2	12122.2	12173.8	12231.0	12293.9
20°	11447.1	11521.5	11596.0	11653.2	11750.4	11818.9	11893.4	11967.8	12007.8	12019.3	12116.6
22.5°	11281.4	11332.7	11389.9	11481.5	11538.7	11601.6	11670.4	11738.9	11778.9	11842.0	11876.2
25°	11006.6	11058.1	11121.0	11161.0	11229.8	11281.4	11349.9	11424.3	11447.1	11493.1	11527.2
27.5°	10623.5	10652.0	10680.7	10714.8	10754.9	10783.6	10823.6	10858.0	10880.8	10903.7	10926.5
30°	10016.9	10016.9	10016.9	9994.1	10011.2	10028.4	10034.1	10028.4	10028.4	10022.8	10022.8
32.5°	9216.1	9170.4	9118.8	9073.1	9055.9	9033.1	9021.6	9004.4	8975.9	8958.7	8964.3
35°	8134.8	8031.9	7969.0	7911.8	7866.1	7831.7	7814.5	7797.4	7791.7	7768.9	7745.8
37.5°	6784.8	6710.4	6664.7	6630.4	6590.3	6556.0	6561.6	6567.5	6584.4	6573.1	6578.8
40°	5354.6	5337.4	5354.6	5314.6	5303.0	5314.6	5343.0	5383.3	5406.2	5429.0	5469.0
42.5°	4073.2	4101.7	4141.9	4141.9	4158.9	4181.9	4216.1	4279.2	4313.3	4353.4	4399.3
45°	3066.3	3100.7	3152.2	3169.2	3180.7	3209.2	3249.5	3300.8	3323.7	3358.0	3398.1
47.5°	2362.7	2385.5	2414.0	2442.8	2471.3	2482.8	2522.8	2522.8	2551.6	2574.4	2585.7
50°	1842.1	1864.9	1887.8	1905.0	1916.5	1933.7	1945.0	1962.2	1967.8	1979.4	1985.0
52.5°	1441.5	1470.3	1470.3	1481.6	1498.8	1516.0	1510.3	1516.0	1521.6	1521.6	1538.8
55°	1127.0	1127.0	1144.1	1144.1	1155.7	1149.8	1155.7	1155.7	1155.7	1155.7	1161.3
57.5°	840.9	846.8	863.9	852.4	846.8	858.1	846.8	858.1	852.4	863.9	846.8
60°	646.4	646.4	652.3	652.3	657.9	657.9	657.9	652.3	652.3	646.4	646.4
62.5°	486.2	491.9	497.8	491.9	491.9	491.9	486.2	486.2	480.6	474.7	474.7
65°	326.1	320.5	331.8	320.5	326.1	326.1	320.5	326.1	308.9	314.6	308.9
67.5°	234.5	228.9	223.2	228.9	223.2	217.3	217.3	223.2	228.9	211.7	211.7
70°	154.5	160.1	154.5	160.1	166.0	166.0	160.1	154.5	160.1	148.8	154.5
72.5°	97.2	97.2	97.2	97.2	97.2	102.9	102.9	102.9	91.6	91.6	85.7
75°	45.7	62.9	51.6	45.7	62.9	62.9	57.2	57.2	51.6	51.6	51.6
77.5°	45.7	34.4	34.4	34.4	34.4	34.4	34.4	34.4	28.5	34.4	28.5
80°	22.8	22.8	22.8	17.2	22.8	22.8	28.5	22.8	22.8	17.2	28.5
82.5°	11.5	11.5	11.5	0.0	5.7	11.5	11.5	5.7	11.5	11.5	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: P249063

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11847.7	11842.0	11847.7	11853.3	11847.7	11842.0	11847.7	11853.3	11830.5	11824.8	11836.1
5°	12099.4	12099.4	12110.7	12116.6	12110.7	12099.4	12099.4	12076.5	12059.4	12042.2	12036.5
7.5°	12316.7	12328.3	12339.6	12345.2	12339.6	12328.3	12316.7	12282.3	12248.0	12219.5	12196.6
10°	12448.4	12465.5	12488.4	12499.7	12488.4	12465.5	12448.4	12408.3	12362.4	12316.7	12282.3
12.5°	12505.6	12522.8	12551.3	12545.6	12551.3	12522.8	12505.6	12448.4	12396.8	12333.9	12282.3
15°	12465.5	12488.4	12516.9	12528.4	12516.9	12488.4	12465.5	12408.3	12362.4	12293.9	12242.3
17.5°	12339.6	12373.9	12391.1	12408.3	12391.1	12373.9	12339.6	12293.9	12231.0	12173.8	12122.2
20°	12167.9	12191.0	12213.8	12219.5	12213.8	12191.0	12167.9	12116.6	12019.3	12007.8	11967.8
22.5°	11922.1	11939.3	11990.6	11973.4	11990.6	11939.3	11922.1	11876.2	11842.0	11778.9	11738.9
25°	11567.2	11584.4	11590.3	11596.0	11590.3	11584.4	11567.2	11527.2	11493.1	11447.1	11424.3
27.5°	10955.2	10955.2	10966.5	10972.4	10966.5	10955.2	10955.2	10926.5	10903.7	10880.8	10858.0
30°	10028.4	10028.4	10028.4	10057.2	10028.4	10028.4	10028.4	10022.8	10022.8	10028.4	10028.4
32.5°	8958.7	8947.2	8935.9	8947.2	8935.9	8947.2	8958.7	8964.3	8958.7	8975.9	9004.4
35°	7745.8	7740.1	7757.3	7734.5	7757.3	7740.1	7745.8	7745.8	7768.9	7791.7	7797.4
37.5°	6584.4	6573.1	6596.0	6573.1	6596.0	6573.1	6584.4	6578.8	6573.1	6584.4	6567.5
40°	5480.6	5491.9	5491.9	5537.8	5491.9	5491.9	5480.6	5469.0	5429.0	5406.2	5383.3
42.5°	4422.1	4456.5	4445.0	4479.3	4445.0	4456.5	4422.1	4399.3	4353.4	4313.3	4279.2
45°	3420.9	3444.0	3444.0	3455.3	3444.0	3444.0	3420.9	3398.1	3358.0	3323.7	3300.8
47.5°	2625.7	2625.7	2625.7	2631.6	2625.7	2625.7	2625.7	2585.7	2574.4	2551.6	2522.8
50°	1996.5	2002.2	2008.1	2013.7	2008.1	2002.2	1996.5	1985.0	1979.4	1967.8	1962.2
52.5°	1533.1	1538.8	1527.5	1538.8	1527.5	1538.8	1533.1	1538.8	1521.6	1521.6	1516.0
55°	1161.3	1155.7	1161.3	1167.0	1161.3	1155.7	1161.3	1161.3	1155.7	1155.7	1155.7
57.5°	852.4	840.9	840.9	840.9	840.9	840.9	852.4	846.8	863.9	852.4	858.1
60°	635.1	640.7	640.7	646.4	640.7	640.7	635.1	646.4	646.4	652.3	652.3
62.5°	469.1	486.2	474.7	486.2	474.7	486.2	469.1	474.7	474.7	480.6	486.2
65°	303.3	303.3	303.3	308.9	303.3	303.3	303.3	308.9	314.6	308.9	326.1
67.5°	206.0	211.7	223.2	217.3	223.2	211.7	206.0	211.7	211.7	228.9	223.2
70°	166.0	148.8	148.8	166.0	148.8	148.8	166.0	154.5	148.8	160.1	154.5
72.5°	97.2	85.7	97.2	97.2	97.2	85.7	97.2	85.7	91.6	91.6	102.9
75°	51.6	45.7	40.0	57.2	40.0	45.7	51.6	51.6	51.6	51.6	57.2
77.5°	34.4	28.5	40.0	40.0	40.0	28.5	34.4	28.5	34.4	28.5	34.4
80°	17.2	22.8	17.2	28.5	17.2	22.8	17.2	28.5	17.2	22.8	22.8
82.5°	5.7	11.5	11.5	11.5	11.5	11.5	5.7	5.7	11.5	11.5	5.7
85°	0.0	11.5	5.7	5.7	5.7	11.5	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: P249063

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11836.1	11818.9	11824.8	11790.5	11790.5	11778.9	11784.8	11756.1	11744.8	11733.2	11750.4
5°	12007.8	11979.3	11956.2	11904.9	11876.2	11842.0	11824.8	11778.9	11738.9	11704.5	11698.9
7.5°	12145.1	12082.2	12042.2	11973.4	11922.1	11882.1	11824.8	11761.7	11710.4	11664.5	11630.3
10°	12202.3	12139.4	12076.5	11990.6	11933.4	11859.0	11801.8	11721.7	11653.2	11590.3	11550.0
12.5°	12207.9	12127.9	12070.7	11973.4	11899.0	11818.9	11756.1	11664.5	11584.4	11521.5	11458.7
15°	12156.6	12082.2	12013.4	11910.5	11836.1	11761.7	11687.6	11590.3	11515.9	11441.5	11395.8
17.5°	12042.2	11973.4	11893.4	11796.1	11727.6	11658.8	11578.8	11498.7	11412.8	11332.7	11275.5
20°	11893.4	11818.9	11750.4	11653.2	11596.0	11521.5	11447.1	11361.4	11292.7	11212.6	11149.7
22.5°	11670.4	11601.6	11538.7	11481.5	11389.9	11332.7	11281.4	11184.1	11115.4	11041.0	10972.4
25°	11349.9	11281.4	11229.8	11161.0	11121.0	11058.1	11006.6	10920.9	10858.0	10789.2	10732.0
27.5°	10823.6	10783.6	10754.9	10714.8	10680.7	10652.0	10623.5	10554.7	10509.0	10446.2	10388.9
30°	10034.1	10028.4	10011.2	9994.1	10016.9	10016.9	10016.9	10005.6	9965.6	9919.6	9879.6
32.5°	9021.6	9033.1	9055.9	9073.1	9118.8	9170.4	9216.1	9238.9	9238.9	9210.4	9193.2
35°	7814.5	7831.7	7866.1	7911.8	7969.0	8031.9	8134.8	8157.9	8174.8	8174.8	8152.0
37.5°	6561.6	6556.0	6590.3	6630.4	6664.7	6710.4	6784.8	6802.0	6830.5	6819.2	6796.1
40°	5343.0	5314.6	5303.0	5314.6	5354.6	5337.4	5354.6	5343.0	5343.0	5303.0	5303.0
42.5°	4216.1	4181.9	4158.9	4141.9	4141.9	4101.7	4073.2	4044.7	4027.5	3998.8	3993.1
45°	3249.5	3209.2	3180.7	3169.2	3152.2	3100.7	3066.3	3031.9	2991.9	2980.6	2986.2
47.5°	2522.8	2482.8	2471.3	2442.8	2414.0	2385.5	2362.7	2322.7	2316.8	2293.9	2316.8
50°	1945.0	1933.7	1916.5	1905.0	1887.8	1864.9	1842.1	1819.2	1807.7	1807.7	1813.4
52.5°	1510.3	1516.0	1498.8	1481.6	1470.3	1470.3	1441.5	1435.9	1435.9	1413.1	1435.9
55°	1155.7	1149.8	1155.7	1144.1	1144.1	1127.0	1127.0	1109.8	1109.8	1092.6	1104.1
57.5°	846.8	858.1	846.8	852.4	863.9	846.8	840.9	823.7	835.2	823.7	829.6
60°	657.9	657.9	657.9	652.3	652.3	646.4	646.4	640.7	640.7	629.2	640.7
62.5°	486.2	491.9	491.9	491.9	497.8	491.9	486.2	491.9	486.2	486.2	491.9
65°	320.5	326.1	326.1	320.5	331.8	320.5	326.1	331.8	337.4	331.8	337.4
67.5°	217.3	217.3	223.2	228.9	223.2	228.9	234.5	228.9	234.5	246.1	234.5
70°	160.1	166.0	166.0	160.1	154.5	160.1	154.5	171.7	171.7	171.7	183.0
72.5°	102.9	102.9	97.2	97.2	97.2	97.2	97.2	114.4	102.9	97.2	108.8
75°	57.2	62.9	62.9	45.7	51.6	62.9	45.7	51.6	68.8	57.2	68.8
77.5°	34.4	34.4	34.4	34.4	34.4	34.4	45.7	40.0	40.0	40.0	45.7
80°	28.5	22.8	22.8	17.2	22.8	22.8	22.8	34.4	28.5	28.5	34.4
82.5°	11.5	11.5	5.7	0.0	11.5	11.5	11.5	11.5	11.5	11.5	22.8
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	11.5	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: P249063

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11704.5	11704.5	11698.9	11687.6	11664.5	11664.5	11658.8	11641.6	11630.3	11624.4	11624.4
5°	11647.3	11624.4	11601.6	11538.7	11538.7	11527.2	11493.1	11470.0	11458.7	11429.9	11418.6
7.5°	11596.0	11527.2	11487.2	11447.1	11395.8	11372.7	11332.7	11315.5	11275.5	11247.0	11229.8
10°	11470.0	11424.3	11372.7	11309.9	11269.8	11224.1	11178.2	11144.1	11092.5	11063.8	11041.0
12.5°	11384.3	11315.5	11269.8	11201.1	11132.5	11092.5	11029.6	10989.6	10938.1	10880.8	10846.5
15°	11304.2	11229.8	11166.9	11092.5	11018.1	10972.4	10898.0	10852.3	10777.9	10720.7	10680.7
17.5°	11184.1	11121.0	11052.5	10960.9	10892.4	10835.2	10754.9	10697.9	10629.1	10554.7	10514.7
20°	11058.1	10983.7	10915.2	10823.6	10754.9	10686.3	10606.3	10543.4	10463.1	10394.6	10348.9
22.5°	10892.4	10806.4	10749.2	10657.6	10577.5	10503.4	10429.0	10354.6	10280.1	10222.9	10171.4
25°	10652.0	10560.4	10497.5	10423.1	10348.9	10291.7	10200.1	10154.4	10080.0	10028.4	9976.9
27.5°	10308.6	10240.1	10182.9	10108.5	10045.6	9999.9	9931.2	9885.5	9822.4	9776.7	9736.7
30°	9805.4	9748.2	9696.7	9622.2	9576.6	9536.5	9473.4	9433.4	9387.7	9336.1	9324.8
32.5°	9130.3	9084.4	9033.1	8981.5	8947.2	8924.3	8872.7	8849.9	8804.2	8775.5	8747.0
35°	8111.9	8071.9	8043.4	8020.6	8009.0	8014.7	8003.4	8026.2	8037.5	8031.9	8037.5
37.5°	6779.2	6756.1	6767.6	6784.8	6842.1	6916.5	6985.0	7087.9	7156.6	7225.4	7288.3
40°	5291.7	5308.9	5354.6	5457.5	5606.3	5772.3	5926.8	6121.3	6315.8	6453.1	6578.8
42.5°	3993.1	4044.7	4158.9	4307.7	4530.9	4776.7	5017.2	5303.0	5537.8	5766.4	5926.8
45°	3003.4	3071.9	3220.8	3426.8	3672.6	3958.7	4262.0	4582.2	4862.7	5097.2	5274.5
47.5°	2339.9	2402.7	2551.6	2768.9	3071.9	3369.6	3684.2	4015.9	4307.7	4536.6	4691.0
50°	1847.7	1927.8	2059.4	2288.3	2591.6	2906.2	3232.3	3558.2	3833.0	4027.5	4164.8
52.5°	1453.1	1527.5	1653.2	1893.6	2202.6	2517.2	2820.2	3140.7	3380.9	3569.7	3661.3
55°	1127.0	1195.7	1327.1	1527.5	1819.2	2128.2	2431.2	2706.0	2929.0	3066.3	3152.2
57.5°	858.1	909.6	1001.2	1201.4	1464.6	1750.5	2008.1	2282.6	2454.3	2551.6	2608.5
60°	652.3	692.3	789.5	944.0	1184.2	1430.2	1647.6	1853.6	1990.9	2071.0	2128.2
62.5°	491.9	537.8	606.3	738.0	920.9	1121.3	1304.3	1458.7	1573.2	1624.7	1664.8
65°	337.4	371.8	423.4	526.3	680.7	823.7	966.8	1081.3	1155.7	1212.9	1235.7
67.5°	251.7	274.6	303.3	383.3	491.9	606.3	703.6	783.6	863.9	886.8	926.8
70°	188.8	206.0	234.5	291.7	354.6	434.7	515.0	560.7	617.9	657.9	669.4
72.5°	120.1	125.7	154.5	188.8	240.2	291.7	343.3	383.3	417.7	440.6	451.9
75°	68.8	102.9	102.9	137.3	171.7	194.5	228.9	257.4	274.6	291.7	291.7
77.5°	45.7	62.9	68.8	85.7	102.9	131.6	160.1	177.3	194.5	200.1	200.1
80°	40.0	45.7	45.7	62.9	74.4	97.2	114.4	120.1	131.6	137.3	148.8
82.5°	17.2	22.8	28.5	45.7	51.6	51.6	68.8	74.4	85.7	91.6	91.6
85°	5.7	11.5	11.5	17.2	28.5	34.4	40.0	45.7	51.6	51.6	57.2
87.5°	5.7	5.7	0.0	5.7	11.5	11.5	22.8	22.8	22.8	34.4	34.4
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: P249063

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0	11716.0
2.5°	11613.1	11618.8	11596.0	11590.3	11578.8	11584.4	11596.0
5°	11401.5	11407.1	11384.3	11361.4	11361.4	11355.5	11361.4
7.5°	11201.1	11207.0	11172.6	11161.0	11138.2	11144.1	11144.1
10°	11000.9	11000.9	10949.6	10943.7	10926.5	10920.9	10920.9
12.5°	10806.4	10789.2	10749.2	10726.4	10737.9	10703.5	10703.5
15°	10634.8	10606.3	10554.7	10537.5	10509.0	10497.5	10497.5
17.5°	10457.5	10434.6	10388.9	10354.6	10320.2	10314.5	10320.2
20°	10285.8	10263.0	10205.7	10182.9	10154.4	10154.4	10142.9
22.5°	10114.1	10091.3	10040.0	10022.8	9982.7	9982.7	9988.4
25°	9936.8	9919.6	9862.4	9851.1	9845.5	9822.4	9833.9
27.5°	9696.7	9685.1	9639.4	9622.2	9599.4	9593.8	9605.1
30°	9256.1	9238.9	9204.8	9187.6	9147.5	9153.2	9164.5
32.5°	8707.0	8684.1	8638.2	8621.0	8586.9	8575.3	8581.0
35°	8020.6	8003.4	7963.4	7963.4	7929.0	7917.4	7929.0
37.5°	7322.6	7339.6	7322.6	7339.6	7322.6	7316.8	7322.6
40°	6664.7	6727.6	6738.9	6802.0	6779.2	6813.3	6807.7
42.5°	6035.3	6138.2	6178.5	6229.8	6218.5	6241.4	6258.6
45°	5400.3	5486.2	5526.2	5560.6	5566.3	5577.8	5583.5
47.5°	4799.6	4868.3	4874.0	4914.0	4908.4	4908.4	4925.6
50°	4239.2	4284.8	4296.1	4324.9	4302.0	4290.5	4296.1
52.5°	3718.5	3764.2	3752.7	3764.2	3735.7	3724.2	3729.8
55°	3186.4	3209.2	3209.2	3209.2	3175.1	3175.1	3175.1
57.5°	2642.9	2648.8	2637.3	2642.9	2637.3	2602.9	2597.2
60°	2145.4	2145.4	2139.5	2145.4	2128.2	2111.0	2111.0
62.5°	1676.1	1687.6	1710.5	1687.6	1676.1	1687.6	1670.4
65°	1252.9	1275.8	1269.9	1281.4	1275.8	1275.8	1264.2
67.5°	944.0	949.7	955.3	961.2	961.2	961.2	961.2
70°	692.3	709.5	703.6	703.6	703.6	703.6	738.0
72.5°	463.4	486.2	480.6	491.9	491.9	503.4	491.9
75°	314.6	337.4	326.1	343.3	337.4	326.1	354.6
77.5°	211.7	223.2	228.9	234.5	228.9	223.2	228.9
80°	148.8	160.1	154.5	160.1	160.1	160.1	166.0
82.5°	91.6	108.8	102.9	108.8	102.9	108.8	108.8
85°	62.9	68.8	57.2	68.8	62.9	62.9	74.4
87.5°	40.0	34.4	34.4	40.0	34.4	40.0	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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