

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: P249009

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249009
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 ER8B200840 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21262.0 lumens
Efficiency: N/A
Efficacy: 95.2 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

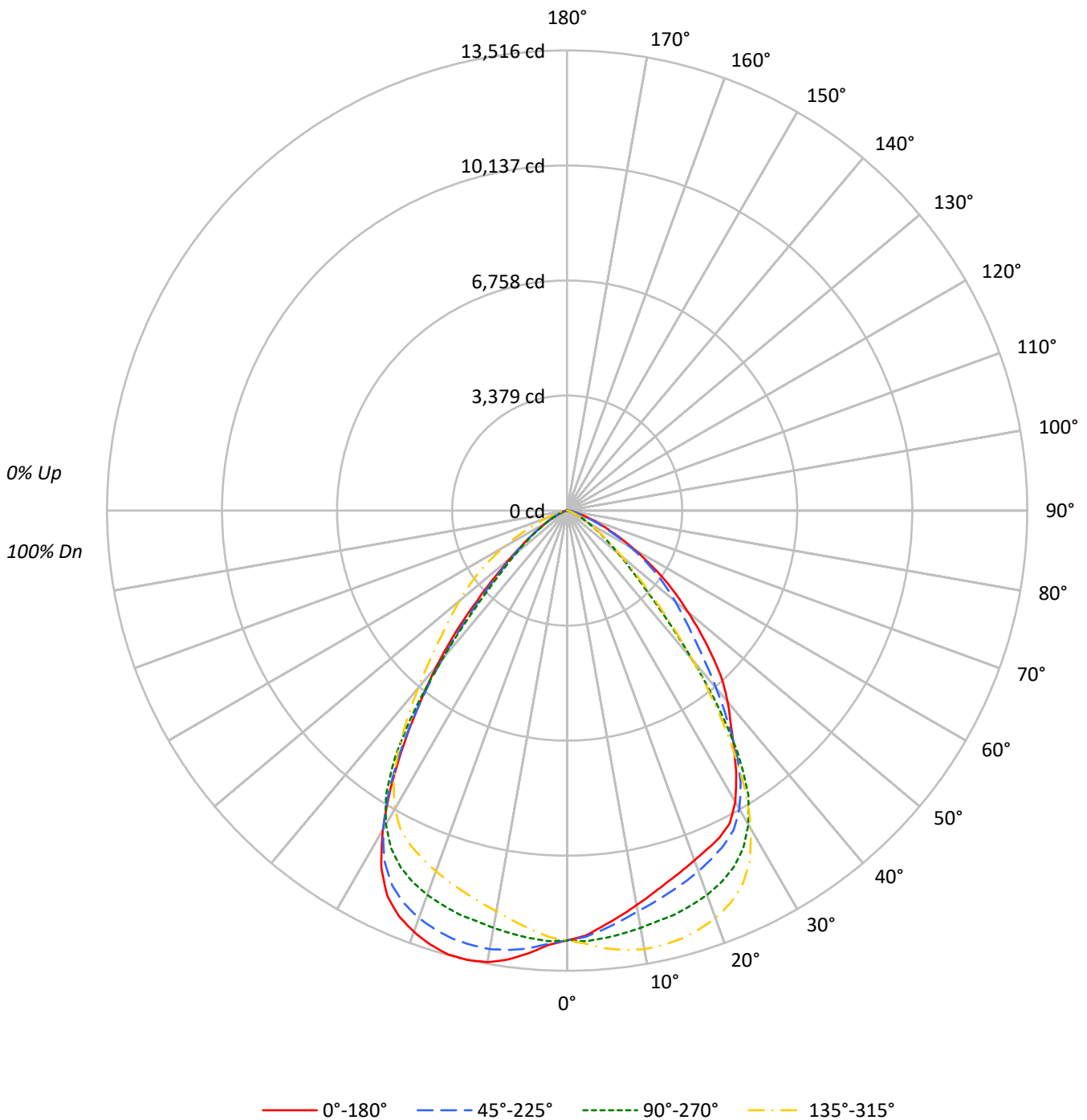
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	389234	389234	389234	389234
5°	378894	390149	404078	390149
10°	368414	389637	421676	389637
15°	361052	391951	430905	391951
20°	358596	394194	432014	394194
25°	360479	393400	425070	393400
30°	351566	379001	385809	379001
35°	321575	330618	313685	330618
40°	295239	229983	240167	229983
45°	262331	140304	162339	140304
50°	222047	93724	104082	93724
55°	183902	63955	67594	63955
60°	140262	42573	42949	42573
65°	99386	26523	24283	26523
70°	71686	17770	16130	17770
75°	45524	8828	7339	8828
80°	31769	6570	5452	6570
85°	28375	0	2158	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1201.4	5.7
10°-20°	3479.1	16.4
20°-30°	5268.1	24.8
30°-40°	5280.0	24.8
40°-50°	3315.5	15.6
50°-60°	1766.8	8.3
60°-70°	726.6	3.4
70°-80°	191.9	0.9
80°-90°	32.5	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°	9948.7	46.8
0°-40°	15228.6	71.6
0°-60°	20311.0	95.5
0°-90°	21262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21262.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12623	12623	12623	12623	12623	
5°	12240	12604	13054	12604	12240	###
15°	11310	12278	13498	12278	11310	3199
25°	10595	11562	12493	11562	10595	4859
35°	8542	8783	8333	8783	8542	5352
45°	6016	3217	3723	3217	6016	4626
55°	3421	1190	1257	1190	3421	3050
65°	1362	364	333	364	1362	1413
75°	382	74	62	74	382	433
85°	80	0	6	0	80	88
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°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12493.2	12480.8	12474.7	12487.1	12493.2	12517.8	12511.7	12523.9	12523.9	12530.2	12542.4
5°	12240.5	12234.2	12240.5	12240.5	12265.1	12289.7	12283.6	12302.2	12314.3	12345.3	12357.5
7.5°	12006.4	12006.4	12000.0	12024.6	12037.1	12074.1	12067.8	12098.7	12117.2	12147.9	12191.1
10°	11765.9	11765.9	11772.0	11790.5	11796.8	11852.1	11852.1	11895.2	11919.9	11950.8	12006.4
12.5°	11531.7	11531.7	11568.7	11556.3	11580.9	11624.1	11642.6	11685.7	11722.7	11784.4	11839.9
15°	11309.7	11309.7	11322.2	11352.9	11371.4	11426.9	11457.6	11507.1	11550.2	11611.9	11692.0
17.5°	11118.7	11112.6	11118.7	11155.7	11192.8	11242.0	11266.6	11328.3	11371.4	11451.5	11525.6
20°	10927.7	10940.1	10940.1	10970.8	10995.4	11057.1	11081.7	11149.7	11198.9	11272.7	11359.2
22.5°	10761.3	10755.2	10755.2	10798.3	10816.8	10872.1	10896.7	10958.4	11013.9	11075.6	11155.7
25°	10594.8	10582.4	10607.3	10613.4	10625.5	10687.2	10705.7	10748.8	10804.4	10859.9	10940.1
27.5°	10348.2	10336.1	10342.2	10366.8	10385.3	10434.5	10446.9	10490.1	10533.2	10582.4	10650.4
30°	9873.6	9861.4	9855.3	9898.5	9917.0	9953.8	9972.3	10046.4	10058.5	10114.1	10163.3
32.5°	9245.0	9238.9	9251.3	9288.1	9306.6	9356.1	9380.7	9423.8	9454.5	9485.5	9534.7
35°	8542.5	8530.1	8542.5	8579.5	8579.5	8622.7	8641.2	8659.4	8653.3	8659.4	8647.3
37.5°	7889.2	7882.9	7889.2	7907.5	7889.2	7907.5	7889.2	7852.2	7784.5	7710.4	7636.3
40°	7334.4	7340.5	7303.7	7328.3	7260.3	7248.2	7180.4	7087.8	6952.4	6804.5	6594.9
42.5°	6742.8	6724.3	6699.7	6711.9	6656.6	6613.2	6502.3	6385.4	6212.6	5966.3	5713.3
45°	6015.5	6009.4	5997.0	5990.9	5953.8	5910.7	5818.1	5682.6	5491.6	5238.9	4936.8
47.5°	5306.7	5288.2	5288.2	5294.2	5251.1	5245.0	5171.0	5054.0	4887.6	4641.0	4326.7
50°	4628.6	4622.5	4634.9	4659.5	4628.6	4616.4	4567.2	4487.0	4339.1	4129.6	3833.5
52.5°	4018.4	4012.4	4024.8	4055.5	4043.0	4055.5	4006.3	3944.6	3845.9	3642.5	3383.7
55°	3420.7	3420.7	3420.7	3457.5	3457.5	3457.5	3432.9	3396.1	3303.5	3155.6	2915.4
57.5°	2798.2	2804.3	2841.3	2847.4	2841.3	2853.8	2847.4	2810.4	2749.0	2644.2	2459.3
60°	2274.3	2274.3	2292.8	2311.4	2305.0	2311.4	2311.4	2292.8	2231.2	2144.9	1997.0
62.5°	1799.7	1818.2	1805.8	1818.2	1842.8	1818.2	1805.8	1793.6	1750.5	1694.9	1571.6
65°	1362.1	1374.5	1374.5	1380.6	1368.1	1374.5	1349.9	1331.4	1306.8	1245.1	1164.9
67.5°	1035.6	1035.6	1035.6	1035.6	1029.2	1023.1	1017.0	998.5	955.4	930.8	844.3
70°	795.1	758.0	758.0	758.0	758.0	764.4	745.8	721.2	708.8	665.7	604.0
72.5°	530.0	542.4	530.0	530.0	517.8	523.9	499.3	486.8	474.7	450.0	413.0
75°	382.1	351.4	363.5	369.9	351.4	363.5	338.9	314.3	314.3	295.8	277.3
77.5°	246.6	240.5	246.6	252.7	246.6	240.5	228.1	215.6	215.6	209.5	191.0
80°	178.9	172.5	172.5	172.5	166.4	172.5	160.3	160.3	147.9	141.8	129.4
82.5°	117.2	117.2	110.9	117.2	110.9	117.2	98.7	98.7	98.7	92.3	80.2
85°	80.2	67.7	67.7	74.1	61.6	74.1	67.7	61.6	55.6	55.6	49.2
87.5°	37.0	43.1	37.0	43.1	37.0	37.0	43.1	37.0	37.0	24.6	24.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12560.9	12567.0	12567.0	12591.9	12604.1	12610.1	12610.1	12659.6	12641.1	12653.5	12665.7
5°	12382.3	12419.1	12431.5	12431.5	12499.3	12523.9	12548.5	12604.1	12610.1	12647.2	12690.3
7.5°	12209.6	12252.7	12277.6	12332.9	12376.0	12419.1	12493.2	12530.2	12567.0	12616.5	12671.8
10°	12043.1	12092.6	12141.8	12185.0	12252.7	12308.3	12357.5	12443.7	12487.1	12554.8	12628.7
12.5°	11883.1	11950.8	11993.9	12067.8	12141.8	12191.1	12265.1	12345.3	12413.0	12480.8	12567.0
15°	11741.3	11821.4	11870.6	11950.8	12031.0	12098.7	12178.9	12277.6	12326.8	12406.9	12487.1
17.5°	11587.0	11673.5	11735.2	11809.0	11907.7	11981.5	12049.5	12147.9	12209.6	12295.8	12388.4
20°	11426.9	11513.2	11587.0	11661.1	11759.8	11833.6	11913.8	12012.5	12080.2	12166.4	12240.5
22.5°	11235.9	11316.1	11396.0	11482.2	11580.9	11642.6	11735.2	11821.4	11895.2	11975.4	12049.5
25°	10989.3	11088.0	11149.7	11229.6	11309.7	11377.5	11476.2	11562.4	11624.1	11698.1	11765.9
27.5°	10699.6	10773.7	10822.9	10890.6	10970.8	11032.5	11106.3	11192.8	11254.4	11322.2	11371.4
30°	10206.4	10274.4	10317.6	10366.8	10446.9	10502.5	10564.1	10644.1	10687.2	10736.6	10779.8
32.5°	9559.3	9614.8	9639.4	9676.5	9732.0	9787.3	9836.8	9904.5	9923.1	9953.8	9953.8
35°	8622.7	8634.8	8628.7	8641.2	8665.8	8696.5	8739.6	8782.7	8807.3	8807.3	8789.1
37.5°	7525.4	7451.6	7371.5	7309.8	7291.3	7278.9	7303.7	7322.0	7346.8	7359.0	7328.3
40°	6385.4	6218.9	6040.1	5879.8	5768.9	5719.7	5701.2	5713.3	5713.3	5756.5	5756.5
42.5°	5405.4	5146.3	4881.5	4641.0	4480.7	4357.6	4302.1	4302.1	4308.2	4339.1	4357.6
45°	4591.8	4265.0	3956.8	3691.9	3470.0	3309.6	3235.8	3217.3	3211.2	3223.4	3266.5
47.5°	3969.2	3630.3	3309.6	2983.1	2749.0	2588.6	2520.9	2496.1	2471.4	2496.1	2502.4
50°	3482.4	3131.0	2792.1	2465.4	2218.8	2077.0	1990.7	1953.7	1947.6	1947.6	1960.0
52.5°	3038.4	2711.9	2373.0	2040.2	1781.2	1645.7	1565.5	1547.0	1522.4	1547.0	1547.0
55°	2619.3	2292.8	1960.0	1645.7	1429.8	1288.2	1214.2	1189.6	1177.1	1195.6	1195.6
57.5°	2163.5	1885.9	1577.9	1294.3	1078.7	980.0	924.4	893.7	887.4	899.8	887.4
60°	1775.1	1540.9	1275.8	1017.0	850.6	745.8	702.7	690.3	677.9	690.3	690.3
62.5°	1405.2	1208.1	992.2	795.1	653.3	579.4	530.0	530.0	523.9	523.9	530.0
65°	1041.6	887.4	733.4	567.0	456.1	400.6	363.5	363.5	357.4	363.5	357.4
67.5°	758.0	653.3	530.0	413.0	326.8	295.8	271.2	252.7	265.1	252.7	246.6
70°	554.8	468.3	382.1	314.3	252.7	222.0	203.5	197.1	184.9	184.9	184.9
72.5°	369.9	314.3	258.8	203.5	166.4	135.5	129.4	117.2	104.8	110.9	123.3
75°	246.6	209.5	184.9	147.9	110.9	110.9	74.1	74.1	61.6	74.1	55.6
77.5°	172.5	141.8	110.9	92.3	74.1	67.7	49.2	49.2	43.1	43.1	43.1
80°	123.3	104.8	80.2	67.7	49.2	49.2	43.1	37.0	30.7	30.7	37.0
82.5°	74.1	55.6	55.6	49.2	30.7	24.6	18.5	24.6	12.4	12.4	12.4
85°	43.1	37.0	30.7	18.5	12.4	12.4	6.1	0.0	6.1	6.1	0.0
87.5°	24.6	12.4	12.4	6.1	0.0	6.1	6.1	0.0	0.0	0.0	12.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12696.7	12690.3	12702.7	12702.7	12739.8	12733.4	12752.0	12752.0	12739.8	12745.9	12770.5
5°	12739.8	12758.3	12795.1	12826.0	12881.3	12906.2	12936.9	12967.8	12973.9	12992.5	13011.0
7.5°	12739.8	12801.4	12844.6	12899.9	12973.9	13017.1	13084.8	13140.4	13165.0	13195.7	13232.7
10°	12714.9	12776.6	12856.7	12918.4	13011.0	13078.7	13146.4	13232.7	13269.7	13319.0	13368.4
12.5°	12665.7	12733.4	12819.7	12899.9	13004.6	13066.3	13152.5	13232.7	13288.3	13356.0	13411.6
15°	12591.9	12671.8	12752.0	12832.1	12943.0	13017.1	13097.2	13189.6	13245.1	13319.0	13368.4
17.5°	12474.7	12560.9	12635.0	12708.8	12813.6	12899.9	12973.9	13060.2	13115.7	13177.4	13245.1
20°	12332.9	12413.0	12493.2	12554.8	12659.6	12733.4	12813.6	12893.8	12936.9	12949.3	13054.1
22.5°	12154.3	12209.6	12271.2	12369.9	12431.5	12499.3	12573.4	12647.2	12690.3	12758.3	12795.1
25°	11858.2	11913.8	11981.5	12024.6	12098.7	12154.3	12228.1	12308.3	12332.9	12382.3	12419.1
27.5°	11445.5	11476.2	11507.1	11543.9	11587.0	11618.0	11661.1	11698.1	11722.7	11747.3	11772.0
30°	10792.0	10792.0	10792.0	10767.3	10785.9	10804.4	10810.5	10804.4	10804.4	10798.3	10798.3
32.5°	9929.2	9879.9	9824.4	9775.2	9756.6	9732.0	9719.6	9701.1	9670.4	9651.9	9658.0
35°	8764.2	8653.3	8585.6	8524.0	8474.8	8437.7	8419.2	8400.7	8394.6	8370.0	8345.1
37.5°	7309.8	7229.6	7180.4	7143.4	7100.3	7063.2	7069.3	7075.7	7093.9	7081.7	7087.8
40°	5768.9	5750.4	5768.9	5725.8	5713.3	5725.8	5756.5	5799.8	5824.5	5849.1	5892.2
42.5°	4388.3	4419.0	4462.4	4462.4	4480.7	4505.5	4542.3	4610.3	4647.1	4690.2	4739.7
45°	3303.5	3340.6	3396.1	3414.4	3426.8	3457.5	3500.9	3556.2	3580.8	3617.9	3661.0
47.5°	2545.5	2570.1	2600.8	2631.8	2662.5	2674.9	2718.0	2718.0	2749.0	2773.6	2785.8
50°	1984.6	2009.2	2033.8	2052.3	2064.8	2083.3	2095.5	2114.0	2120.1	2132.5	2138.6
52.5°	1553.1	1584.0	1584.0	1596.2	1614.7	1633.3	1627.2	1633.3	1639.3	1639.3	1657.9
55°	1214.2	1214.2	1232.7	1232.7	1245.1	1238.8	1245.1	1245.1	1245.1	1245.1	1251.2
57.5°	905.9	912.3	930.8	918.4	912.3	924.4	912.3	924.4	918.4	930.8	912.3
60°	696.4	696.4	702.7	702.7	708.8	708.8	708.8	702.7	702.7	696.4	696.4
62.5°	523.9	530.0	536.3	530.0	530.0	530.0	523.9	523.9	517.8	511.4	511.4
65°	351.4	345.3	357.4	345.3	351.4	351.4	345.3	351.4	332.8	338.9	332.8
67.5°	252.7	246.6	240.5	246.6	240.5	234.2	234.2	240.5	246.6	228.1	228.1
70°	166.4	172.5	166.4	172.5	178.9	178.9	172.5	166.4	172.5	160.3	166.4
72.5°	104.8	104.8	104.8	104.8	104.8	110.9	110.9	110.9	98.7	98.7	92.3
75°	49.2	67.7	55.6	49.2	67.7	67.7	61.6	61.6	55.6	55.6	55.6
77.5°	49.2	37.0	37.0	37.0	37.0	37.0	37.0	37.0	30.7	37.0	30.7
80°	24.6	24.6	24.6	18.5	24.6	24.6	30.7	24.6	24.6	18.5	30.7
82.5°	12.4	12.4	12.4	0.0	6.1	12.4	12.4	6.1	12.4	12.4	6.1
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: P249009

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12764.4	12758.3	12764.4	12770.5	12764.4	12758.3	12764.4	12770.5	12745.9	12739.8	12752.0
5°	13035.6	13035.6	13047.8	13054.1	13047.8	13035.6	13035.6	13011.0	12992.5	12973.9	12967.8
7.5°	13269.7	13282.2	13294.3	13300.4	13294.3	13282.2	13269.7	13232.7	13195.7	13165.0	13140.4
10°	13411.6	13430.1	13454.7	13466.9	13454.7	13430.1	13411.6	13368.4	13319.0	13269.7	13232.7
12.5°	13473.2	13491.7	13522.4	13516.3	13522.4	13491.7	13473.2	13411.6	13356.0	13288.3	13232.7
15°	13430.1	13454.7	13485.4	13497.8	13485.4	13454.7	13430.1	13368.4	13319.0	13245.1	13189.6
17.5°	13294.3	13331.4	13349.9	13368.4	13349.9	13331.4	13294.3	13245.1	13177.4	13115.7	13060.2
20°	13109.4	13134.3	13158.9	13165.0	13158.9	13134.3	13109.4	13054.1	12949.3	12936.9	12893.8
22.5°	12844.6	12863.1	12918.4	12899.9	12918.4	12863.1	12844.6	12795.1	12758.3	12690.3	12647.2
25°	12462.2	12480.8	12487.1	12493.2	12487.1	12480.8	12462.2	12419.1	12382.3	12332.9	12308.3
27.5°	11802.9	11802.9	11815.1	11821.4	11815.1	11802.9	11802.9	11772.0	11747.3	11722.7	11698.1
30°	10804.4	10804.4	10804.4	10835.3	10804.4	10804.4	10804.4	10798.3	10798.3	10804.4	10804.4
32.5°	9651.9	9639.4	9627.3	9639.4	9627.3	9639.4	9651.9	9658.0	9651.9	9670.4	9701.1
35°	8345.1	8339.0	8357.5	8332.9	8357.5	8339.0	8345.1	8345.1	8370.0	8394.6	8400.7
37.5°	7093.9	7081.7	7106.4	7081.7	7106.4	7081.7	7093.9	7087.8	7081.7	7093.9	7075.7
40°	5904.6	5916.8	5916.8	5966.3	5916.8	5916.8	5904.6	5892.2	5849.1	5824.5	5799.8
42.5°	4764.3	4801.3	4788.9	4825.9	4788.9	4801.3	4764.3	4739.7	4690.2	4647.1	4610.3
45°	3685.6	3710.5	3710.5	3722.6	3710.5	3710.5	3685.6	3661.0	3617.9	3580.8	3556.2
47.5°	2828.9	2828.9	2828.9	2835.2	2828.9	2828.9	2828.9	2785.8	2773.6	2749.0	2718.0
50°	2151.0	2157.1	2163.5	2169.6	2163.5	2157.1	2151.0	2138.6	2132.5	2120.1	2114.0
52.5°	1651.8	1657.9	1645.7	1657.9	1645.7	1657.9	1651.8	1657.9	1639.3	1639.3	1633.3
55°	1251.2	1245.1	1251.2	1257.3	1251.2	1245.1	1251.2	1251.2	1245.1	1245.1	1245.1
57.5°	918.4	905.9	905.9	905.9	905.9	905.9	918.4	912.3	930.8	918.4	924.4
60°	684.2	690.3	690.3	696.4	690.3	690.3	684.2	696.4	696.4	702.7	702.7
62.5°	505.3	523.9	511.4	523.9	511.4	523.9	505.3	511.4	511.4	517.8	523.9
65°	326.8	326.8	326.8	332.8	326.8	326.8	326.8	332.8	338.9	332.8	351.4
67.5°	222.0	228.1	240.5	234.2	240.5	228.1	222.0	228.1	228.1	246.6	240.5
70°	178.9	160.3	160.3	178.9	160.3	160.3	178.9	166.4	160.3	172.5	166.4
72.5°	104.8	92.3	104.8	104.8	104.8	92.3	104.8	92.3	98.7	98.7	110.9
75°	55.6	49.2	43.1	61.6	43.1	49.2	55.6	55.6	55.6	55.6	61.6
77.5°	37.0	30.7	43.1	43.1	43.1	30.7	37.0	30.7	37.0	30.7	37.0
80°	18.5	24.6	18.5	30.7	18.5	24.6	18.5	30.7	18.5	24.6	24.6
82.5°	6.1	12.4	12.4	12.4	12.4	12.4	6.1	6.1	12.4	12.4	6.1
85°	0.0	12.4	6.1	6.1	6.1	12.4	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	0.0	0.0	6.1	0.0	0.0	6.1	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: P249009

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12752.0	12733.4	12739.8	12702.7	12702.7	12690.3	12696.7	12665.7	12653.5	12641.1	12659.6
5°	12936.9	12906.2	12881.3	12826.0	12795.1	12758.3	12739.8	12690.3	12647.2	12610.1	12604.1
7.5°	13084.8	13017.1	12973.9	12899.9	12844.6	12801.4	12739.8	12671.8	12616.5	12567.0	12530.2
10°	13146.4	13078.7	13011.0	12918.4	12856.7	12776.6	12714.9	12628.7	12554.8	12487.1	12443.7
12.5°	13152.5	13066.3	13004.6	12899.9	12819.7	12733.4	12665.7	12567.0	12480.8	12413.0	12345.3
15°	13097.2	13017.1	12943.0	12832.1	12752.0	12671.8	12591.9	12487.1	12406.9	12326.8	12277.6
17.5°	12973.9	12899.9	12813.6	12708.8	12635.0	12560.9	12474.7	12388.4	12295.8	12209.6	12147.9
20°	12813.6	12733.4	12659.6	12554.8	12493.2	12413.0	12332.9	12240.5	12166.4	12080.2	12012.5
22.5°	12573.4	12499.3	12431.5	12369.9	12271.2	12209.6	12154.3	12049.5	11975.4	11895.2	11821.4
25°	12228.1	12154.3	12098.7	12024.6	11981.5	11913.8	11858.2	11765.9	11698.1	11624.1	11562.4
27.5°	11661.1	11618.0	11587.0	11543.9	11507.1	11476.2	11445.5	11371.4	11322.2	11254.4	11192.8
30°	10810.5	10804.4	10785.9	10767.3	10792.0	10792.0	10792.0	10779.8	10736.6	10687.2	10644.1
32.5°	9719.6	9732.0	9756.6	9775.2	9824.4	9879.9	9929.2	9953.8	9953.8	9923.1	9904.5
35°	8419.2	8437.7	8474.8	8524.0	8585.6	8653.3	8764.2	8789.1	8807.3	8807.3	8782.7
37.5°	7069.3	7063.2	7100.3	7143.4	7180.4	7229.6	7309.8	7328.3	7359.0	7346.8	7322.0
40°	5756.5	5725.8	5713.3	5725.8	5768.9	5750.4	5768.9	5756.5	5756.5	5713.3	5713.3
42.5°	4542.3	4505.5	4480.7	4462.4	4462.4	4419.0	4388.3	4357.6	4339.1	4308.2	4302.1
45°	3500.9	3457.5	3426.8	3414.4	3396.1	3340.6	3303.5	3266.5	3223.4	3211.2	3217.3
47.5°	2718.0	2674.9	2662.5	2631.8	2600.8	2570.1	2545.5	2502.4	2496.1	2471.4	2496.1
50°	2095.5	2083.3	2064.8	2052.3	2033.8	2009.2	1984.6	1960.0	1947.6	1947.6	1953.7
52.5°	1627.2	1633.3	1614.7	1596.2	1584.0	1584.0	1553.1	1547.0	1547.0	1522.4	1547.0
55°	1245.1	1238.8	1245.1	1232.7	1232.7	1214.2	1214.2	1195.6	1195.6	1177.1	1189.6
57.5°	912.3	924.4	912.3	918.4	930.8	912.3	905.9	887.4	899.8	887.4	893.7
60°	708.8	708.8	708.8	702.7	702.7	696.4	696.4	690.3	690.3	677.9	690.3
62.5°	523.9	530.0	530.0	530.0	536.3	530.0	523.9	530.0	523.9	523.9	530.0
65°	345.3	351.4	351.4	345.3	357.4	345.3	351.4	357.4	363.5	357.4	363.5
67.5°	234.2	234.2	240.5	246.6	240.5	246.6	252.7	246.6	252.7	265.1	252.7
70°	172.5	178.9	178.9	172.5	166.4	172.5	166.4	184.9	184.9	184.9	197.1
72.5°	110.9	110.9	104.8	104.8	104.8	104.8	104.8	123.3	110.9	104.8	117.2
75°	61.6	67.7	67.7	49.2	55.6	67.7	49.2	55.6	74.1	61.6	74.1
77.5°	37.0	37.0	37.0	37.0	37.0	37.0	49.2	43.1	43.1	43.1	49.2
80°	30.7	24.6	24.6	18.5	24.6	24.6	24.6	37.0	30.7	30.7	37.0
82.5°	12.4	12.4	6.1	0.0	12.4	12.4	12.4	12.4	12.4	12.4	24.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	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: P249009

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12610.1	12610.1	12604.1	12591.9	12567.0	12567.0	12560.9	12542.4	12530.2	12523.9	12523.9
5°	12548.5	12523.9	12499.3	12431.5	12431.5	12419.1	12382.3	12357.5	12345.3	12314.3	12302.2
7.5°	12493.2	12419.1	12376.0	12332.9	12277.6	12252.7	12209.6	12191.1	12147.9	12117.2	12098.7
10°	12357.5	12308.3	12252.7	12185.0	12141.8	12092.6	12043.1	12006.4	11950.8	11919.9	11895.2
12.5°	12265.1	12191.1	12141.8	12067.8	11993.9	11950.8	11883.1	11839.9	11784.4	11722.7	11685.7
15°	12178.9	12098.7	12031.0	11950.8	11870.6	11821.4	11741.3	11692.0	11611.9	11550.2	11507.1
17.5°	12049.5	11981.5	11907.7	11809.0	11735.2	11673.5	11587.0	11525.6	11451.5	11371.4	11328.3
20°	11913.8	11833.6	11759.8	11661.1	11587.0	11513.2	11426.9	11359.2	11272.7	11198.9	11149.7
22.5°	11735.2	11642.6	11580.9	11482.2	11396.0	11316.1	11235.9	11155.7	11075.6	11013.9	10958.4
25°	11476.2	11377.5	11309.7	11229.6	11149.7	11088.0	10989.3	10940.1	10859.9	10804.4	10748.8
27.5°	11106.3	11032.5	10970.8	10890.6	10822.9	10773.7	10699.6	10650.4	10582.4	10533.2	10490.1
30°	10564.1	10502.5	10446.9	10366.8	10317.6	10274.4	10206.4	10163.3	10114.1	10058.5	10046.4
32.5°	9836.8	9787.3	9732.0	9676.5	9639.4	9614.8	9559.3	9534.7	9485.5	9454.5	9423.8
35°	8739.6	8696.5	8665.8	8641.2	8628.7	8634.8	8622.7	8647.3	8659.4	8653.3	8659.4
37.5°	7303.7	7278.9	7291.3	7309.8	7371.5	7451.6	7525.4	7636.3	7710.4	7784.5	7852.2
40°	5701.2	5719.7	5768.9	5879.8	6040.1	6218.9	6385.4	6594.9	6804.5	6952.4	7087.8
42.5°	4302.1	4357.6	4480.7	4641.0	4881.5	5146.3	5405.4	5713.3	5966.3	6212.6	6385.4
45°	3235.8	3309.6	3470.0	3691.9	3956.8	4265.0	4591.8	4936.8	5238.9	5491.6	5682.6
47.5°	2520.9	2588.6	2749.0	2983.1	3309.6	3630.3	3969.2	4326.7	4641.0	4887.6	5054.0
50°	1990.7	2077.0	2218.8	2465.4	2792.1	3131.0	3482.4	3833.5	4129.6	4339.1	4487.0
52.5°	1565.5	1645.7	1781.2	2040.2	2373.0	2711.9	3038.4	3383.7	3642.5	3845.9	3944.6
55°	1214.2	1288.2	1429.8	1645.7	1960.0	2292.8	2619.3	2915.4	3155.6	3303.5	3396.1
57.5°	924.4	980.0	1078.7	1294.3	1577.9	1885.9	2163.5	2459.3	2644.2	2749.0	2810.4
60°	702.7	745.8	850.6	1017.0	1275.8	1540.9	1775.1	1997.0	2144.9	2231.2	2292.8
62.5°	530.0	579.4	653.3	795.1	992.2	1208.1	1405.2	1571.6	1694.9	1750.5	1793.6
65°	363.5	400.6	456.1	567.0	733.4	887.4	1041.6	1164.9	1245.1	1306.8	1331.4
67.5°	271.2	295.8	326.8	413.0	530.0	653.3	758.0	844.3	930.8	955.4	998.5
70°	203.5	222.0	252.7	314.3	382.1	468.3	554.8	604.0	665.7	708.8	721.2
72.5°	129.4	135.5	166.4	203.5	258.8	314.3	369.9	413.0	450.0	474.7	486.8
75°	74.1	110.9	110.9	147.9	184.9	209.5	246.6	277.3	295.8	314.3	314.3
77.5°	49.2	67.7	74.1	92.3	110.9	141.8	172.5	191.0	209.5	215.6	215.6
80°	43.1	49.2	49.2	67.7	80.2	104.8	123.3	129.4	141.8	147.9	160.3
82.5°	18.5	24.6	30.7	49.2	55.6	55.6	74.1	80.2	92.3	98.7	98.7
85°	6.1	12.4	12.4	18.5	30.7	37.0	43.1	49.2	55.6	55.6	61.6
87.5°	6.1	6.1	0.0	6.1	12.4	12.4	24.6	24.6	24.6	37.0	37.0
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: P249009

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6	12622.6
2.5°	12511.7	12517.8	12493.2	12487.1	12474.7	12480.8	12493.2
5°	12283.6	12289.7	12265.1	12240.5	12240.5	12234.2	12240.5
7.5°	12067.8	12074.1	12037.1	12024.6	12000.0	12006.4	12006.4
10°	11852.1	11852.1	11796.8	11790.5	11772.0	11765.9	11765.9
12.5°	11642.6	11624.1	11580.9	11556.3	11568.7	11531.7	11531.7
15°	11457.6	11426.9	11371.4	11352.9	11322.2	11309.7	11309.7
17.5°	11266.6	11242.0	11192.8	11155.7	11118.7	11112.6	11118.7
20°	11081.7	11057.1	10995.4	10970.8	10940.1	10940.1	10927.7
22.5°	10896.7	10872.1	10816.8	10798.3	10755.2	10755.2	10761.3
25°	10705.7	10687.2	10625.5	10613.4	10607.3	10582.4	10594.8
27.5°	10446.9	10434.5	10385.3	10366.8	10342.2	10336.1	10348.2
30°	9972.3	9953.8	9917.0	9898.5	9855.3	9861.4	9873.6
32.5°	9380.7	9356.1	9306.6	9288.1	9251.3	9238.9	9245.0
35°	8641.2	8622.7	8579.5	8579.5	8542.5	8530.1	8542.5
37.5°	7889.2	7907.5	7889.2	7907.5	7889.2	7882.9	7889.2
40°	7180.4	7248.2	7260.3	7328.3	7303.7	7340.5	7334.4
42.5°	6502.3	6613.2	6656.6	6711.9	6699.7	6724.3	6742.8
45°	5818.1	5910.7	5953.8	5990.9	5997.0	6009.4	6015.5
47.5°	5171.0	5245.0	5251.1	5294.2	5288.2	5288.2	5306.7
50°	4567.2	4616.4	4628.6	4659.5	4634.9	4622.5	4628.6
52.5°	4006.3	4055.5	4043.0	4055.5	4024.8	4012.4	4018.4
55°	3432.9	3457.5	3457.5	3457.5	3420.7	3420.7	3420.7
57.5°	2847.4	2853.8	2841.3	2847.4	2841.3	2804.3	2798.2
60°	2311.4	2311.4	2305.0	2311.4	2292.8	2274.3	2274.3
62.5°	1805.8	1818.2	1842.8	1818.2	1805.8	1818.2	1799.7
65°	1349.9	1374.5	1368.1	1380.6	1374.5	1374.5	1362.1
67.5°	1017.0	1023.1	1029.2	1035.6	1035.6	1035.6	1035.6
70°	745.8	764.4	758.0	758.0	758.0	758.0	795.1
72.5°	499.3	523.9	517.8	530.0	530.0	542.4	530.0
75°	338.9	363.5	351.4	369.9	363.5	351.4	382.1
77.5°	228.1	240.5	246.6	252.7	246.6	240.5	246.6
80°	160.3	172.5	166.4	172.5	172.5	172.5	178.9
82.5°	98.7	117.2	110.9	117.2	110.9	117.2	117.2
85°	67.7	74.1	61.6	74.1	67.7	67.7	80.2
87.5°	43.1	37.0	37.0	43.1	37.0	43.1	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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