

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: P248577

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248577
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21488.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

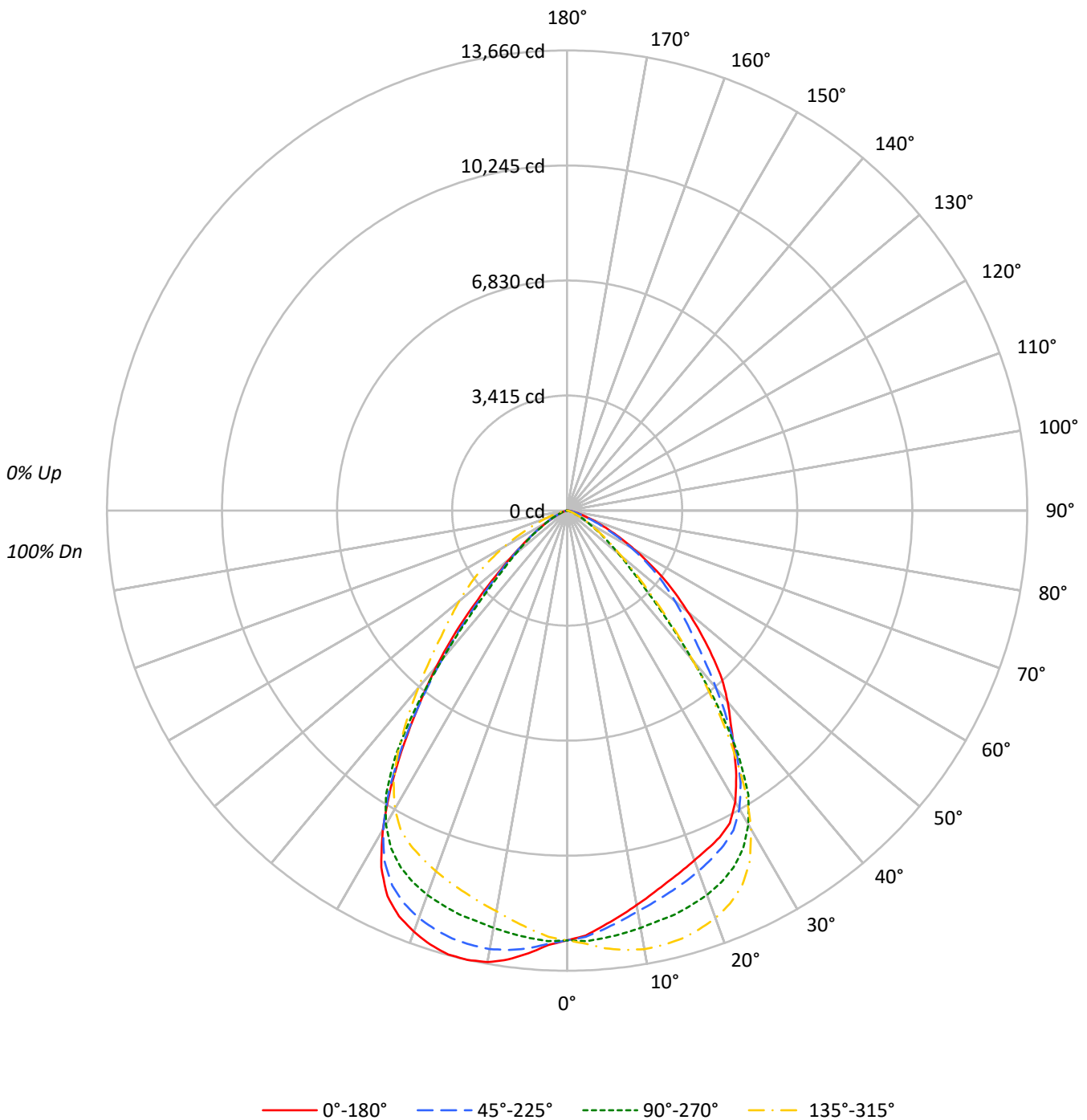
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	393370	393370	393370	393370
5°	382921	394293	408374	394293
10°	372328	393780	426157	393780
15°	364889	396117	435486	396117
20°	362406	398381	436605	398381
25°	364313	397582	429588	397582
30°	355302	383028	389911	383028
35°	324994	334134	317021	334134
40°	298378	232430	242719	232430
45°	265117	141795	164066	141795
50°	224407	94717	105185	94717
55°	185859	64632	68309	64632
60°	141755	43023	43405	43023
65°	100436	26807	24545	26807
70°	72443	17960	16301	17960
75°	46001	8924	7423	8924
80°	32106	6641	5505	6641
85°	28658	0	2194	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1214.2	5.7
10°-20°	3516.1	16.4
20°-30°	5324.1	24.8
30°-40°	5336.1	24.8
40°-50°	3350.8	15.6
50°-60°	1785.6	8.3
60°-70°	734.3	3.4
70°-80°	194.0	0.9
80°-90°	32.8	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°	10054.4	46.8
0°-40°	15390.5	71.6
0°-60°	20526.9	95.5
0°-90°	21488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21488.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12757	12757	12757	12757	12757	
5°	12371	12738	13193	12738	12371	###
15°	11430	12408	13641	12408	11430	3233
25°	10708	11685	12626	11685	10708	4911
35°	8633	8876	8422	8876	8633	5409
45°	6079	3252	3762	3252	6079	4676
55°	3457	1202	1271	1202	3457	3082
65°	1376	367	336	367	1376	1428
75°	386	75	62	75	386	437
85°	81	0	6	0	81	89
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°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12626.0	12613.4	12607.3	12619.8	12626.0	12650.9	12644.7	12657.0	12657.0	12663.4	12675.7
5°	12370.6	12364.2	12370.6	12370.6	12395.5	12420.4	12414.2	12432.9	12445.2	12476.5	12488.8
7.5°	12134.0	12134.0	12127.6	12152.4	12165.0	12202.4	12196.0	12227.3	12246.0	12277.0	12320.6
10°	11890.9	11890.9	11897.1	11915.8	11922.2	11978.1	11978.1	12021.7	12046.6	12077.8	12134.0
12.5°	11654.3	11654.3	11691.7	11679.2	11704.0	11747.6	11766.3	11809.9	11847.3	11909.6	11965.8
15°	11429.9	11429.9	11442.5	11473.5	11492.2	11548.4	11579.4	11629.4	11673.0	11735.3	11816.3
17.5°	11236.9	11230.7	11236.9	11274.3	11311.8	11361.5	11386.4	11448.7	11492.2	11573.3	11648.1
20°	11043.8	11056.4	11056.4	11087.4	11112.3	11174.6	11199.5	11268.2	11317.9	11392.5	11479.9
22.5°	10875.6	10869.5	10869.5	10913.1	10931.8	10987.7	11012.6	11074.9	11131.0	11193.3	11274.3
25°	10707.5	10694.9	10720.0	10726.2	10738.5	10800.8	10819.5	10863.1	10919.2	10975.4	11056.4
27.5°	10458.2	10445.9	10452.1	10477.0	10495.7	10545.4	10558.0	10601.6	10645.1	10694.9	10763.6
30°	9978.5	9966.2	9960.1	10003.7	10022.4	10059.6	10078.3	10153.1	10165.5	10221.6	10271.3
32.5°	9343.2	9337.1	9349.6	9386.8	9405.5	9455.5	9480.4	9524.0	9555.0	9586.3	9636.0
35°	8633.3	8620.7	8633.3	8670.7	8670.7	8714.3	8733.0	8751.5	8745.3	8751.5	8739.2
37.5°	7973.1	7966.7	7973.1	7991.6	7973.1	7991.6	7973.1	7935.7	7867.2	7792.3	7717.5
40°	7412.4	7418.5	7381.4	7406.2	7337.5	7325.2	7256.8	7163.2	7026.3	6876.8	6665.0
42.5°	6814.5	6795.8	6770.9	6783.2	6727.3	6683.5	6571.4	6453.2	6278.6	6029.7	5774.1
45°	6079.4	6073.3	6060.7	6054.6	6017.1	5973.5	5880.0	5743.0	5550.0	5294.6	4989.3
47.5°	5363.1	5344.4	5344.4	5350.5	5306.9	5300.8	5225.9	5107.7	4939.5	4690.3	4372.7
50°	4677.8	4671.6	4684.2	4709.0	4677.8	4665.5	4615.7	4534.7	4385.2	4173.5	3874.2
52.5°	4061.2	4055.0	4067.6	4098.6	4086.0	4098.6	4048.8	3986.5	3886.8	3681.2	3419.7
55°	3457.1	3457.1	3457.1	3494.3	3494.3	3494.3	3469.4	3432.2	3338.7	3189.2	2946.4
57.5°	2827.9	2834.1	2871.5	2877.7	2871.5	2884.1	2877.7	2840.2	2778.2	2672.3	2485.4
60°	2298.5	2298.5	2317.2	2335.9	2329.5	2335.9	2335.9	2317.2	2254.9	2167.7	2018.3
62.5°	1818.8	1837.5	1825.0	1837.5	1862.4	1837.5	1825.0	1812.6	1769.1	1712.9	1588.3
65°	1376.5	1389.1	1389.1	1395.3	1382.7	1389.1	1364.2	1345.5	1320.6	1258.3	1177.3
67.5°	1046.6	1046.6	1046.6	1046.6	1040.2	1034.0	1027.9	1009.1	965.5	940.7	853.3
70°	803.5	766.1	766.1	766.1	766.1	772.5	753.8	728.9	716.3	672.8	610.5
72.5°	535.6	548.2	535.6	535.6	523.3	529.4	504.6	492.0	479.7	454.8	417.4
75°	386.1	355.1	367.4	373.8	355.1	367.4	342.5	317.7	317.7	298.9	280.2
77.5°	249.2	243.1	249.2	255.4	249.2	243.1	230.5	217.9	217.9	211.8	193.1
80°	180.8	174.3	174.3	174.3	168.2	174.3	162.0	162.0	149.5	143.3	130.8
82.5°	118.5	118.5	112.0	118.5	112.0	118.5	99.7	99.7	99.7	93.3	81.0
85°	81.0	68.5	68.5	74.9	62.3	74.9	68.5	62.3	56.1	56.1	49.7
87.5°	37.4	43.6	37.4	43.6	37.4	37.4	43.6	37.4	37.4	24.9	24.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12694.4	12700.6	12700.6	12725.7	12738.0	12744.2	12744.2	12794.2	12775.5	12788.0	12800.3
5°	12513.9	12551.1	12563.7	12563.7	12632.1	12657.0	12681.9	12738.0	12744.2	12781.6	12825.2
7.5°	12339.3	12382.9	12408.1	12464.0	12507.5	12551.1	12626.0	12663.4	12700.6	12750.6	12806.5
10°	12171.2	12221.2	12270.9	12314.5	12382.9	12439.1	12488.8	12576.0	12619.8	12688.3	12762.9
12.5°	12009.4	12077.8	12121.4	12196.0	12270.9	12320.6	12395.5	12476.5	12545.0	12613.4	12700.6
15°	11866.1	11947.1	11996.8	12077.8	12158.9	12227.3	12308.3	12408.1	12457.8	12538.8	12619.8
17.5°	11710.2	11797.6	11859.9	11934.5	12034.2	12108.9	12177.6	12277.0	12339.3	12426.5	12520.1
20°	11548.4	11635.6	11710.2	11785.0	11884.8	11959.4	12040.4	12140.1	12208.6	12295.8	12370.6
22.5°	11355.3	11436.4	11517.1	11604.3	11704.0	11766.3	11859.9	11947.1	12021.7	12102.7	12177.6
25°	11106.1	11205.9	11268.2	11348.9	11429.9	11498.4	11598.1	11685.3	11747.6	11822.5	11890.9
27.5°	10813.3	10888.2	10937.9	11006.4	11087.4	11149.7	11224.3	11311.8	11374.1	11442.5	11492.2
30°	10314.9	10383.6	10427.2	10477.0	10558.0	10614.1	10676.4	10757.2	10800.8	10850.8	10894.4
32.5°	9660.9	9717.0	9741.9	9779.3	9835.5	9891.4	9941.4	10009.8	10028.5	10059.6	10059.6
35°	8714.3	8726.6	8720.5	8733.0	8757.9	8788.9	8832.5	8876.1	8901.0	8901.0	8882.5
37.5°	7605.4	7530.8	7449.8	7387.5	7368.8	7356.2	7381.4	7399.8	7424.9	7437.2	7406.2
40°	6453.2	6285.0	6104.3	5942.3	5830.2	5780.5	5761.8	5774.1	5774.1	5817.7	5817.7
42.5°	5462.8	5201.0	4933.4	4690.3	4528.3	4403.9	4347.8	4347.8	4353.9	4385.2	4403.9
45°	4640.6	4310.4	3998.9	3731.2	3506.8	3344.8	3270.2	3251.5	3245.3	3257.6	3301.2
47.5°	4011.4	3668.9	3344.8	3014.8	2778.2	2616.2	2547.7	2522.6	2497.7	2522.6	2529.0
50°	3519.4	3164.3	2821.8	2491.6	2242.4	2099.0	2011.9	1974.4	1968.3	1968.3	1980.8
52.5°	3070.7	2740.8	2398.2	2061.9	1800.1	1663.2	1582.2	1563.4	1538.6	1563.4	1563.4
55°	2647.2	2317.2	1980.8	1663.2	1445.0	1301.9	1227.1	1202.2	1189.6	1208.3	1208.3
57.5°	2186.5	1906.0	1594.7	1308.1	1090.2	990.4	934.3	903.2	896.8	909.4	896.8
60°	1793.9	1557.3	1289.4	1027.9	859.7	753.8	710.2	697.6	685.1	697.6	697.6
62.5°	1420.1	1220.9	1002.7	803.5	660.2	585.6	535.6	535.6	529.4	529.4	535.6
65°	1052.7	896.8	741.2	573.0	461.0	404.8	367.4	367.4	361.2	367.4	361.2
67.5°	766.1	660.2	535.6	417.4	330.2	298.9	274.1	255.4	267.9	255.4	249.2
70°	560.7	473.3	386.1	317.7	255.4	224.3	205.6	199.2	186.9	186.9	186.9
72.5°	373.8	317.7	261.5	205.6	168.2	136.9	130.8	118.5	105.9	112.0	124.6
75°	249.2	211.8	186.9	149.5	112.0	112.0	74.9	74.9	62.3	74.9	56.1
77.5°	174.3	143.3	112.0	93.3	74.9	68.5	49.7	49.7	43.6	43.6	43.6
80°	124.6	105.9	81.0	68.5	49.7	49.7	43.6	37.4	31.0	31.0	37.4
82.5°	74.9	56.1	56.1	49.7	31.0	24.9	18.7	24.9	12.6	12.6	12.6
85°	43.6	37.4	31.0	18.7	12.6	12.6	6.2	0.0	6.2	6.2	0.0
87.5°	24.9	12.6	12.6	6.2	0.0	6.2	6.2	0.0	0.0	0.0	12.6
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°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12831.6	12825.2	12837.8	12837.8	12875.2	12868.8	12887.5	12887.5	12875.2	12881.3	12906.2
5°	12875.2	12893.9	12931.1	12962.4	13018.3	13043.4	13074.4	13105.7	13111.8	13130.6	13149.3
7.5°	12875.2	12937.5	12981.1	13037.0	13111.8	13155.4	13223.9	13280.0	13304.9	13335.9	13373.4
10°	12850.1	12912.4	12993.4	13055.7	13149.3	13217.7	13286.2	13373.4	13410.8	13460.5	13510.5
12.5°	12800.3	12868.8	12956.0	13037.0	13142.9	13205.2	13292.3	13373.4	13429.5	13498.0	13554.1
15°	12725.7	12806.5	12887.5	12968.5	13080.6	13155.4	13236.4	13329.8	13385.9	13460.5	13510.5
17.5°	12607.3	12694.4	12769.3	12843.9	12949.8	13037.0	13111.8	13199.0	13255.2	13317.5	13385.9
20°	12464.0	12545.0	12626.0	12688.3	12794.2	12868.8	12949.8	13030.8	13074.4	13087.0	13192.9
22.5°	12283.5	12339.3	12401.7	12501.4	12563.7	12632.1	12707.0	12781.6	12825.2	12893.9	12931.1
25°	11984.3	12040.4	12108.9	12152.4	12227.3	12283.5	12358.1	12439.1	12464.0	12513.9	12551.1
27.5°	11567.1	11598.1	11629.4	11666.6	11710.2	11741.5	11785.0	11822.5	11847.3	11872.2	11897.1
30°	10906.7	10906.7	10906.7	10881.8	10900.5	10919.2	10925.4	10919.2	10919.2	10913.1	10913.1
32.5°	10034.7	9985.0	9928.8	9879.1	9860.4	9835.5	9822.9	9804.2	9773.2	9754.5	9760.6
35°	8857.4	8745.3	8676.9	8614.6	8564.8	8527.4	8508.7	8490.0	8483.8	8458.9	8433.8
37.5°	7387.5	7306.5	7256.8	7219.3	7175.7	7138.3	7144.5	7150.9	7169.3	7157.0	7163.2
40°	5830.2	5811.5	5830.2	5786.6	5774.1	5786.6	5817.7	5861.5	5886.4	5911.2	5954.8
42.5°	4435.0	4466.0	4509.8	4509.8	4528.3	4553.4	4590.6	4659.3	4696.5	4740.1	4790.1
45°	3338.7	3376.1	3432.2	3450.7	3463.3	3494.3	3538.1	3594.0	3618.9	3656.3	3699.9
47.5°	2572.6	2597.4	2628.5	2659.7	2690.8	2703.3	2746.9	2746.9	2778.2	2803.1	2815.4
50°	2005.7	2030.6	2055.4	2074.2	2086.7	2105.4	2117.7	2136.5	2142.6	2155.2	2161.3
52.5°	1569.6	1600.9	1600.9	1613.2	1631.9	1650.6	1644.5	1650.6	1656.8	1656.8	1675.5
55°	1227.1	1227.1	1245.8	1245.8	1258.3	1251.9	1258.3	1258.3	1258.3	1258.3	1264.5
57.5°	915.6	922.0	940.7	928.1	922.0	934.3	922.0	934.3	928.1	940.7	922.0
60°	703.8	703.8	710.2	710.2	716.3	716.3	716.3	710.2	710.2	703.8	703.8
62.5°	529.4	535.6	542.0	535.6	535.6	535.6	529.4	529.4	523.3	516.9	516.9
65°	355.1	348.9	361.2	348.9	355.1	355.1	348.9	355.1	336.4	342.5	336.4
67.5°	255.4	249.2	243.1	249.2	243.1	236.6	236.6	243.1	249.2	230.5	230.5
70°	168.2	174.3	168.2	174.3	180.8	180.8	174.3	168.2	174.3	162.0	168.2
72.5°	105.9	105.9	105.9	105.9	105.9	112.0	112.0	112.0	99.7	99.7	93.3
75°	49.7	68.5	56.1	49.7	68.5	68.5	62.3	62.3	56.1	56.1	56.1
77.5°	49.7	37.4	37.4	37.4	37.4	37.4	37.4	37.4	31.0	37.4	31.0
80°	24.9	24.9	24.9	18.7	24.9	24.9	31.0	24.9	24.9	18.7	31.0
82.5°	12.6	12.6	12.6	0.0	6.2	12.6	12.6	6.2	12.6	12.6	6.2
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: P248577

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12900.1	12893.9	12900.1	12906.2	12900.1	12893.9	12900.1	12906.2	12881.3	12875.2	12887.5
5°	13174.1	13174.1	13186.4	13192.9	13186.4	13174.1	13174.1	13149.3	13130.6	13111.8	13105.7
7.5°	13410.8	13423.3	13435.7	13441.8	13435.7	13423.3	13410.8	13373.4	13335.9	13304.9	13280.0
10°	13554.1	13572.8	13597.7	13610.0	13597.7	13572.8	13554.1	13510.5	13460.5	13410.8	13373.4
12.5°	13616.4	13635.1	13666.1	13660.0	13666.1	13635.1	13616.4	13554.1	13498.0	13429.5	13373.4
15°	13572.8	13597.7	13628.7	13641.3	13628.7	13597.7	13572.8	13510.5	13460.5	13385.9	13329.8
17.5°	13435.7	13473.1	13491.8	13510.5	13491.8	13473.1	13435.7	13385.9	13317.5	13255.2	13199.0
20°	13248.7	13273.9	13298.7	13304.9	13298.7	13273.9	13248.7	13192.9	13087.0	13074.4	13030.8
22.5°	12981.1	12999.8	13055.7	13037.0	13055.7	12999.8	12981.1	12931.1	12893.9	12825.2	12781.6
25°	12594.7	12613.4	12619.8	12626.0	12619.8	12613.4	12594.7	12551.1	12513.9	12464.0	12439.1
27.5°	11928.4	11928.4	11940.7	11947.1	11940.7	11928.4	11928.4	11897.1	11872.2	11847.3	11822.5
30°	10919.2	10919.2	10919.2	10950.5	10919.2	10919.2	10919.2	10913.1	10913.1	10919.2	10919.2
32.5°	9754.5	9741.9	9729.6	9741.9	9729.6	9741.9	9754.5	9760.6	9754.5	9773.2	9804.2
35°	8433.8	8427.7	8446.4	8421.5	8446.4	8427.7	8433.8	8433.8	8458.9	8483.8	8490.0
37.5°	7169.3	7157.0	7181.9	7157.0	7181.9	7157.0	7169.3	7163.2	7157.0	7169.3	7150.9
40°	5967.4	5979.7	5979.7	6029.7	5979.7	5979.7	5967.4	5954.8	5911.2	5886.4	5861.5
42.5°	4814.9	4852.4	4839.8	4877.2	4839.8	4852.4	4814.9	4790.1	4740.1	4696.5	4659.3
45°	3724.8	3749.9	3749.9	3762.2	3749.9	3749.9	3724.8	3699.9	3656.3	3618.9	3594.0
47.5°	2859.0	2859.0	2859.0	2865.4	2859.0	2859.0	2859.0	2815.4	2803.1	2778.2	2746.9
50°	2173.9	2180.1	2186.5	2192.6	2186.5	2180.1	2173.9	2161.3	2155.2	2142.6	2136.5
52.5°	1669.3	1675.5	1663.2	1675.5	1663.2	1675.5	1669.3	1675.5	1656.8	1656.8	1650.6
55°	1264.5	1258.3	1264.5	1270.6	1264.5	1258.3	1264.5	1264.5	1258.3	1258.3	1258.3
57.5°	928.1	915.6	915.6	915.6	915.6	915.6	928.1	922.0	940.7	928.1	934.3
60°	691.5	697.6	697.6	703.8	697.6	697.6	691.5	703.8	703.8	710.2	710.2
62.5°	510.7	529.4	516.9	529.4	516.9	529.4	510.7	516.9	516.9	523.3	529.4
65°	330.2	330.2	330.2	336.4	330.2	330.2	330.2	336.4	342.5	336.4	355.1
67.5°	224.3	230.5	243.1	236.6	243.1	230.5	224.3	230.5	230.5	249.2	243.1
70°	180.8	162.0	162.0	180.8	162.0	162.0	180.8	168.2	162.0	174.3	168.2
72.5°	105.9	93.3	105.9	105.9	105.9	93.3	105.9	93.3	99.7	99.7	112.0
75°	56.1	49.7	43.6	62.3	43.6	49.7	56.1	56.1	56.1	56.1	62.3
77.5°	37.4	31.0	43.6	43.6	43.6	31.0	37.4	31.0	37.4	31.0	37.4
80°	18.7	24.9	18.7	31.0	18.7	24.9	18.7	31.0	18.7	24.9	24.9
82.5°	6.2	12.6	12.6	12.6	12.6	12.6	6.2	6.2	12.6	12.6	6.2
85°	0.0	12.6	6.2	6.2	6.2	12.6	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	0.0	0.0	6.2	0.0	0.0	6.2	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: P248577

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12887.5	12868.8	12875.2	12837.8	12837.8	12825.2	12831.6	12800.3	12788.0	12775.5	12794.2
5°	13074.4	13043.4	13018.3	12962.4	12931.1	12893.9	12875.2	12825.2	12781.6	12744.2	12738.0
7.5°	13223.9	13155.4	13111.8	13037.0	12981.1	12937.5	12875.2	12806.5	12750.6	12700.6	12663.4
10°	13286.2	13217.7	13149.3	13055.7	12993.4	12912.4	12850.1	12762.9	12688.3	12619.8	12576.0
12.5°	13292.3	13205.2	13142.9	13037.0	12956.0	12868.8	12800.3	12700.6	12613.4	12545.0	12476.5
15°	13236.4	13155.4	13080.6	12968.5	12887.5	12806.5	12725.7	12619.8	12538.8	12457.8	12408.1
17.5°	13111.8	13037.0	12949.8	12843.9	12769.3	12694.4	12607.3	12520.1	12426.5	12339.3	12277.0
20°	12949.8	12868.8	12794.2	12688.3	12626.0	12545.0	12464.0	12370.6	12295.8	12208.6	12140.1
22.5°	12707.0	12632.1	12563.7	12501.4	12401.7	12339.3	12283.5	12177.6	12102.7	12021.7	11947.1
25°	12358.1	12283.5	12227.3	12152.4	12108.9	12040.4	11984.3	11890.9	11822.5	11747.6	11685.3
27.5°	11785.0	11741.5	11710.2	11666.6	11629.4	11598.1	11567.1	11492.2	11442.5	11374.1	11311.8
30°	10925.4	10919.2	10900.5	10881.8	10906.7	10906.7	10906.7	10894.4	10850.8	10800.8	10757.2
32.5°	9822.9	9835.5	9860.4	9879.1	9928.8	9985.0	10034.7	10059.6	10059.6	10028.5	10009.8
35°	8508.7	8527.4	8564.8	8614.6	8676.9	8745.3	8857.4	8882.5	8901.0	8901.0	8876.1
37.5°	7144.5	7138.3	7175.7	7219.3	7256.8	7306.5	7387.5	7406.2	7437.2	7424.9	7399.8
40°	5817.7	5786.6	5774.1	5786.6	5830.2	5811.5	5830.2	5817.7	5817.7	5774.1	5774.1
42.5°	4590.6	4553.4	4528.3	4509.8	4509.8	4466.0	4435.0	4403.9	4385.2	4353.9	4347.8
45°	3538.1	3494.3	3463.3	3450.7	3432.2	3376.1	3338.7	3301.2	3257.6	3245.3	3251.5
47.5°	2746.9	2703.3	2690.8	2659.7	2628.5	2597.4	2572.6	2529.0	2522.6	2497.7	2522.6
50°	2117.7	2105.4	2086.7	2074.2	2055.4	2030.6	2005.7	1980.8	1968.3	1968.3	1974.4
52.5°	1644.5	1650.6	1631.9	1613.2	1600.9	1600.9	1569.6	1563.4	1563.4	1538.6	1563.4
55°	1258.3	1251.9	1258.3	1245.8	1245.8	1227.1	1227.1	1208.3	1208.3	1189.6	1202.2
57.5°	922.0	934.3	922.0	928.1	940.7	922.0	915.6	896.8	909.4	896.8	903.2
60°	716.3	716.3	716.3	710.2	710.2	703.8	703.8	697.6	697.6	685.1	697.6
62.5°	529.4	535.6	535.6	535.6	542.0	535.6	529.4	535.6	529.4	529.4	535.6
65°	348.9	355.1	355.1	348.9	361.2	348.9	355.1	361.2	367.4	361.2	367.4
67.5°	236.6	236.6	243.1	249.2	243.1	249.2	255.4	249.2	255.4	267.9	255.4
70°	174.3	180.8	180.8	174.3	168.2	174.3	168.2	186.9	186.9	186.9	199.2
72.5°	112.0	112.0	105.9	105.9	105.9	105.9	105.9	124.6	112.0	105.9	118.5
75°	62.3	68.5	68.5	49.7	56.1	68.5	49.7	56.1	74.9	62.3	74.9
77.5°	37.4	37.4	37.4	37.4	37.4	37.4	49.7	43.6	43.6	43.6	49.7
80°	31.0	24.9	24.9	18.7	24.9	24.9	24.9	37.4	31.0	31.0	37.4
82.5°	12.6	12.6	6.2	0.0	12.6	12.6	12.6	12.6	12.6	12.6	24.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	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: P248577

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12744.2	12744.2	12738.0	12725.7	12700.6	12700.6	12694.4	12675.7	12663.4	12657.0	12657.0
5°	12681.9	12657.0	12632.1	12563.7	12563.7	12551.1	12513.9	12488.8	12476.5	12445.2	12432.9
7.5°	12626.0	12551.1	12507.5	12464.0	12408.1	12382.9	12339.3	12320.6	12277.0	12246.0	12227.3
10°	12488.8	12439.1	12382.9	12314.5	12270.9	12221.2	12171.2	12134.0	12077.8	12046.6	12021.7
12.5°	12395.5	12320.6	12270.9	12196.0	12121.4	12077.8	12009.4	11965.8	11909.6	11847.3	11809.9
15°	12308.3	12227.3	12158.9	12077.8	11996.8	11947.1	11866.1	11816.3	11735.3	11673.0	11629.4
17.5°	12177.6	12108.9	12034.2	11934.5	11859.9	11797.6	11710.2	11648.1	11573.3	11492.2	11448.7
20°	12040.4	11959.4	11884.8	11785.0	11710.2	11635.6	11548.4	11479.9	11392.5	11317.9	11268.2
22.5°	11859.9	11766.3	11704.0	11604.3	11517.1	11436.4	11355.3	11274.3	11193.3	11131.0	11074.9
25°	11598.1	11498.4	11429.9	11348.9	11268.2	11205.9	11106.1	11056.4	10975.4	10919.2	10863.1
27.5°	11224.3	11149.7	11087.4	11006.4	10937.9	10888.2	10813.3	10763.6	10694.9	10645.1	10601.6
30°	10676.4	10614.1	10558.0	10477.0	10427.2	10383.6	10314.9	10271.3	10221.6	10165.5	10153.1
32.5°	9941.4	9891.4	9835.5	9779.3	9741.9	9717.0	9660.9	9636.0	9586.3	9555.0	9524.0
35°	8832.5	8788.9	8757.9	8733.0	8720.5	8726.6	8714.3	8739.2	8751.5	8745.3	8751.5
37.5°	7381.4	7356.2	7368.8	7387.5	7449.8	7530.8	7605.4	7717.5	7792.3	7867.2	7935.7
40°	5761.8	5780.5	5830.2	5942.3	6104.3	6285.0	6453.2	6665.0	6876.8	7026.3	7163.2
42.5°	4347.8	4403.9	4528.3	4690.3	4933.4	5201.0	5462.8	5774.1	6029.7	6278.6	6453.2
45°	3270.2	3344.8	3506.8	3731.2	3998.9	4310.4	4640.6	4989.3	5294.6	5550.0	5743.0
47.5°	2547.7	2616.2	2778.2	3014.8	3344.8	3668.9	4011.4	4372.7	4690.3	4939.5	5107.7
50°	2011.9	2099.0	2242.4	2491.6	2821.8	3164.3	3519.4	3874.2	4173.5	4385.2	4534.7
52.5°	1582.2	1663.2	1800.1	2061.9	2398.2	2740.8	3070.7	3419.7	3681.2	3886.8	3986.5
55°	1227.1	1301.9	1445.0	1663.2	1980.8	2317.2	2647.2	2946.4	3189.2	3338.7	3432.2
57.5°	934.3	990.4	1090.2	1308.1	1594.7	1906.0	2186.5	2485.4	2672.3	2778.2	2840.2
60°	710.2	753.8	859.7	1027.9	1289.4	1557.3	1793.9	2018.3	2167.7	2254.9	2317.2
62.5°	535.6	585.6	660.2	803.5	1002.7	1220.9	1420.1	1588.3	1712.9	1769.1	1812.6
65°	367.4	404.8	461.0	573.0	741.2	896.8	1052.7	1177.3	1258.3	1320.6	1345.5
67.5°	274.1	298.9	330.2	417.4	535.6	660.2	766.1	853.3	940.7	965.5	1009.1
70°	205.6	224.3	255.4	317.7	386.1	473.3	560.7	610.5	672.8	716.3	728.9
72.5°	130.8	136.9	168.2	205.6	261.5	317.7	373.8	417.4	454.8	479.7	492.0
75°	74.9	112.0	112.0	149.5	186.9	211.8	249.2	280.2	298.9	317.7	317.7
77.5°	49.7	68.5	74.9	93.3	112.0	143.3	174.3	193.1	211.8	217.9	217.9
80°	43.6	49.7	49.7	68.5	81.0	105.9	124.6	130.8	143.3	149.5	162.0
82.5°	18.7	24.9	31.0	49.7	56.1	56.1	74.9	81.0	93.3	99.7	99.7
85°	6.2	12.6	12.6	18.7	31.0	37.4	43.6	49.7	56.1	56.1	62.3
87.5°	6.2	6.2	0.0	6.2	12.6	12.6	24.9	24.9	24.9	37.4	37.4
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: P248577

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7	12756.7
2.5°	12644.7	12650.9	12626.0	12619.8	12607.3	12613.4	12626.0
5°	12414.2	12420.4	12395.5	12370.6	12370.6	12364.2	12370.6
7.5°	12196.0	12202.4	12165.0	12152.4	12127.6	12134.0	12134.0
10°	11978.1	11978.1	11922.2	11915.8	11897.1	11890.9	11890.9
12.5°	11766.3	11747.6	11704.0	11679.2	11691.7	11654.3	11654.3
15°	11579.4	11548.4	11492.2	11473.5	11442.5	11429.9	11429.9
17.5°	11386.4	11361.5	11311.8	11274.3	11236.9	11230.7	11236.9
20°	11199.5	11174.6	11112.3	11087.4	11056.4	11056.4	11043.8
22.5°	11012.6	10987.7	10931.8	10913.1	10869.5	10869.5	10875.6
25°	10819.5	10800.8	10738.5	10726.2	10720.0	10694.9	10707.5
27.5°	10558.0	10545.4	10495.7	10477.0	10452.1	10445.9	10458.2
30°	10078.3	10059.6	10022.4	10003.7	9960.1	9966.2	9978.5
32.5°	9480.4	9455.5	9405.5	9386.8	9349.6	9337.1	9343.2
35°	8733.0	8714.3	8670.7	8670.7	8633.3	8620.7	8633.3
37.5°	7973.1	7991.6	7973.1	7991.6	7973.1	7966.7	7973.1
40°	7256.8	7325.2	7337.5	7406.2	7381.4	7418.5	7412.4
42.5°	6571.4	6683.5	6727.3	6783.2	6770.9	6795.8	6814.5
45°	5880.0	5973.5	6017.1	6054.6	6060.7	6073.3	6079.4
47.5°	5225.9	5300.8	5306.9	5350.5	5344.4	5344.4	5363.1
50°	4615.7	4665.5	4677.8	4709.0	4684.2	4671.6	4677.8
52.5°	4048.8	4098.6	4086.0	4098.6	4067.6	4055.0	4061.2
55°	3469.4	3494.3	3494.3	3494.3	3457.1	3457.1	3457.1
57.5°	2877.7	2884.1	2871.5	2877.7	2871.5	2834.1	2827.9
60°	2335.9	2335.9	2329.5	2335.9	2317.2	2298.5	2298.5
62.5°	1825.0	1837.5	1862.4	1837.5	1825.0	1837.5	1818.8
65°	1364.2	1389.1	1382.7	1395.3	1389.1	1389.1	1376.5
67.5°	1027.9	1034.0	1040.2	1046.6	1046.6	1046.6	1046.6
70°	753.8	772.5	766.1	766.1	766.1	766.1	803.5
72.5°	504.6	529.4	523.3	535.6	535.6	548.2	535.6
75°	342.5	367.4	355.1	373.8	367.4	355.1	386.1
77.5°	230.5	243.1	249.2	255.4	249.2	243.1	249.2
80°	162.0	174.3	168.2	174.3	174.3	174.3	180.8
82.5°	99.7	118.5	112.0	118.5	112.0	118.5	118.5
85°	68.5	74.9	62.3	74.9	68.5	68.5	81.0
87.5°	43.6	37.4	37.4	43.6	37.4	43.6	37.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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