

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: P248838

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248838
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 ER8B200940 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17828.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

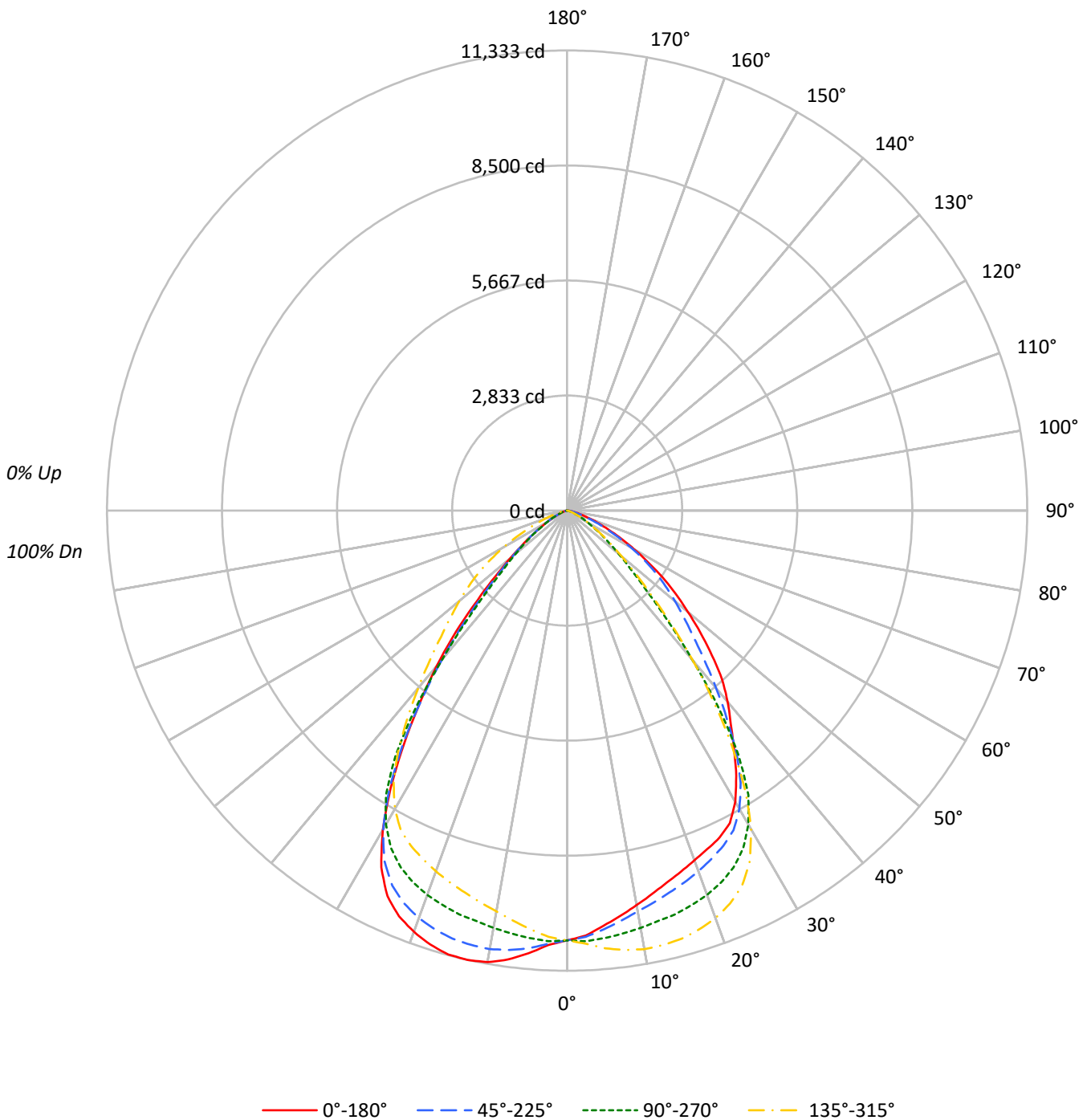
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

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°	326368	326368	326368	326368
5°	317701	327135	338814	327135
10°	308912	326710	353569	326710
15°	302739	328646	361311	328646
20°	300680	330526	362238	330526
25°	302260	329864	356416	329864
30°	294784	317786	323498	317786
35°	269638	277219	263024	277219
40°	247554	192841	201378	192841
45°	219960	117644	136122	117644
50°	186182	78584	87272	78584
55°	154204	53622	56675	53622
60°	117610	35696	36011	35696
65°	83333	22240	20365	22240
70°	60109	14903	13524	14903
75°	38173	7399	6160	7399
80°	26637	5523	4564	5523
85°	23776	0	1804	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1007.4	5.7
10°-20°	2917.2	16.4
20°-30°	4417.3	24.8
30°-40°	4427.2	24.8
40°-50°	2780.1	15.6
50°-60°	1481.5	8.3
60°-70°	609.2	3.4
70°-80°	161.0	0.9
80°-90°	27.2	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°	8341.9	46.8
0°-40°	12769.1	71.6
0°-60°	17030.6	95.5
0°-90°	17828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17828.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10584	10584	10584	10584	10584	
5°	10264	10568	10946	10568	10264	968
15°	9483	10295	11318	10295	9483	2682
25°	8884	9695	10475	9695	8884	4074
35°	7163	7364	6987	7364	7163	4487
45°	5044	2698	3121	2698	5044	3879
55°	2868	997	1054	997	2868	2557
65°	1142	305	279	305	1142	1185
75°	320	62	52	62	320	363
85°	67	0	5	0	67	74
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°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10475.4	10465.0	10459.9	10470.3	10475.4	10496.1	10491.0	10501.2	10501.2	10506.5	10516.7
5°	10263.6	10258.3	10263.6	10263.6	10284.2	10304.8	10299.7	10315.3	10325.5	10351.4	10361.6
7.5°	10067.2	10067.2	10061.9	10082.5	10093.0	10124.0	10118.7	10144.7	10160.2	10185.9	10222.1
10°	9865.6	9865.6	9870.7	9886.2	9891.5	9937.9	9937.9	9974.1	9994.7	10020.6	10067.2
12.5°	9669.2	9669.2	9700.3	9689.9	9710.5	9746.7	9762.2	9798.4	9829.4	9881.1	9927.7
15°	9483.1	9483.1	9493.5	9519.3	9534.8	9581.4	9607.1	9648.6	9684.8	9736.5	9803.7
17.5°	9322.9	9317.8	9322.9	9354.0	9385.0	9426.3	9446.9	9498.6	9534.8	9602.0	9664.1
20°	9162.8	9173.2	9173.2	9198.9	9219.6	9271.2	9291.9	9348.9	9390.2	9452.1	9524.6
22.5°	9023.2	9018.1	9018.1	9054.3	9069.8	9116.2	9136.8	9188.5	9235.1	9286.8	9354.0
25°	8883.7	8873.3	8894.1	8899.2	8909.4	8961.1	8976.6	9012.8	9059.4	9106.0	9173.2
27.5°	8676.9	8666.7	8671.8	8692.4	8708.0	8749.2	8759.7	8795.8	8832.0	8873.3	8930.3
30°	8278.9	8268.7	8263.6	8299.8	8315.3	8346.1	8361.7	8423.8	8434.0	8480.6	8521.8
32.5°	7751.8	7746.7	7757.1	7788.0	7803.5	7845.0	7865.6	7901.8	7927.5	7953.5	7994.7
35°	7162.8	7152.4	7162.8	7193.9	7193.9	7230.0	7245.5	7260.9	7255.8	7260.9	7250.7
37.5°	6615.1	6609.7	6615.1	6630.4	6615.1	6630.4	6615.1	6584.0	6527.2	6465.1	6403.0
40°	6149.8	6155.0	6124.1	6144.7	6087.7	6077.5	6020.7	5943.1	5829.5	5705.5	5529.8
42.5°	5653.8	5638.3	5617.6	5627.8	5581.5	5545.1	5452.1	5354.1	5209.2	5002.7	4790.6
45°	5043.9	5038.8	5028.4	5023.3	4992.2	4956.1	4878.4	4764.8	4604.7	4392.8	4139.5
47.5°	4449.6	4434.1	4434.1	4439.2	4403.0	4397.9	4335.8	4237.7	4098.2	3891.4	3627.9
50°	3881.0	3875.9	3886.3	3907.0	3881.0	3870.8	3829.5	3762.3	3638.3	3462.6	3214.4
52.5°	3369.4	3364.3	3374.7	3400.5	3390.1	3400.5	3359.2	3307.5	3224.8	3054.2	2837.2
55°	2868.3	2868.3	2868.3	2899.1	2899.1	2899.1	2878.5	2847.6	2770.0	2646.0	2444.5
57.5°	2346.3	2351.4	2382.4	2387.5	2382.4	2392.8	2387.5	2356.5	2305.0	2217.1	2062.1
60°	1907.0	1907.0	1922.5	1938.1	1932.7	1938.1	1938.1	1922.5	1870.8	1798.5	1674.5
62.5°	1509.0	1524.5	1514.1	1524.5	1545.2	1524.5	1514.1	1503.9	1467.7	1421.2	1317.8
65°	1142.1	1152.5	1152.5	1157.6	1147.2	1152.5	1131.9	1116.3	1095.7	1044.0	976.8
67.5°	868.3	868.3	868.3	868.3	863.0	857.9	852.8	837.3	801.1	780.5	707.9
70°	666.7	635.6	635.6	635.6	635.6	640.9	625.4	604.8	594.3	558.2	506.5
72.5°	444.4	454.8	444.4	444.4	434.2	439.3	418.6	408.2	398.0	377.4	346.3
75°	320.4	294.6	304.8	310.1	294.6	304.8	284.2	263.6	263.6	248.0	232.5
77.5°	206.8	201.7	206.8	211.9	206.8	201.7	191.2	180.8	180.8	175.7	160.2
80°	150.0	144.6	144.6	144.6	139.5	144.6	134.4	134.4	124.0	118.9	108.5
82.5°	98.3	98.3	93.0	98.3	93.0	98.3	82.7	82.7	82.7	77.4	67.2
85°	67.2	56.8	56.8	62.1	51.7	62.1	56.8	51.7	46.6	46.6	41.3
87.5°	31.1	36.2	31.1	36.2	31.1	31.1	36.2	31.1	31.1	20.6	20.6
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: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10532.2	10537.3	10537.3	10558.2	10568.4	10573.5	10573.5	10615.0	10599.4	10609.9	10620.1
5°	10382.5	10413.3	10423.7	10423.7	10480.5	10501.2	10521.8	10568.4	10573.5	10604.6	10640.7
7.5°	10237.6	10273.8	10294.6	10341.0	10377.2	10413.3	10475.4	10506.5	10537.3	10578.8	10625.2
10°	10098.1	10139.6	10180.8	10217.0	10273.8	10320.4	10361.6	10434.0	10470.3	10527.1	10589.0
12.5°	9963.9	10020.6	10056.8	10118.7	10180.8	10222.1	10284.2	10351.4	10408.2	10465.0	10537.3
15°	9844.9	9912.2	9953.4	10020.6	10087.9	10144.7	10211.9	10294.6	10335.9	10403.1	10470.3
17.5°	9715.6	9788.1	9839.8	9901.7	9984.5	10046.4	10103.4	10185.9	10237.6	10309.9	10387.6
20°	9581.4	9653.7	9715.6	9777.7	9860.5	9922.4	9989.6	10072.3	10129.1	10201.5	10263.6
22.5°	9421.2	9488.4	9555.4	9627.8	9710.5	9762.2	9839.8	9912.2	9974.1	10041.3	10103.4
25°	9214.5	9297.2	9348.9	9415.9	9483.1	9539.9	9622.7	9695.0	9746.7	9808.8	9865.6
27.5°	8971.5	9033.6	9074.9	9131.7	9198.9	9250.6	9312.5	9385.0	9436.7	9493.5	9534.8
30°	8558.0	8615.0	8651.2	8692.4	8759.7	8806.2	8857.9	8924.9	8961.1	9002.6	9038.7
32.5°	8015.4	8062.0	8082.6	8113.6	8160.2	8206.6	8248.1	8304.9	8320.4	8346.1	8346.1
35°	7230.0	7240.2	7235.1	7245.5	7266.2	7291.9	7328.1	7364.2	7384.9	7384.9	7369.6
37.5°	6310.0	6248.1	6180.9	6129.2	6113.7	6103.3	6124.1	6139.4	6160.3	6170.5	6144.7
40°	5354.1	5214.5	5064.6	4930.1	4837.2	4795.9	4780.4	4790.6	4790.6	4826.7	4826.7
42.5°	4532.3	4315.2	4093.1	3891.4	3757.0	3653.8	3607.2	3607.2	3612.4	3638.3	3653.8
45°	3850.2	3576.2	3317.7	3095.7	2909.5	2775.1	2713.2	2697.7	2692.6	2702.8	2738.9
47.5°	3328.2	3044.0	2775.1	2501.3	2305.0	2170.6	2113.8	2092.9	2072.3	2092.9	2098.2
50°	2920.0	2625.3	2341.2	2067.2	1860.4	1741.5	1669.2	1638.1	1633.0	1633.0	1643.4
52.5°	2547.7	2273.9	1989.7	1710.7	1493.5	1379.9	1312.7	1297.1	1276.5	1297.1	1297.1
55°	2196.3	1922.5	1643.4	1379.9	1198.9	1080.2	1018.1	997.4	987.0	1002.5	1002.5
57.5°	1814.0	1581.3	1323.1	1085.3	904.5	821.7	775.1	749.4	744.1	754.5	744.1
60°	1488.4	1292.0	1069.8	852.8	713.2	625.4	589.2	578.8	568.4	578.8	578.8
62.5°	1178.2	1013.0	831.9	666.7	547.7	485.8	444.4	444.4	439.3	439.3	444.4
65°	873.4	744.1	615.0	475.4	382.5	335.9	304.8	304.8	299.7	304.8	299.7
67.5°	635.6	547.7	444.4	346.3	274.0	248.0	227.4	211.9	222.3	211.9	206.8
70°	465.2	392.7	320.4	263.6	211.9	186.1	170.6	165.3	155.1	155.1	155.1
72.5°	310.1	263.6	217.0	170.6	139.5	113.6	108.5	98.3	87.9	93.0	103.4
75°	206.8	175.7	155.1	124.0	93.0	93.0	62.1	62.1	51.7	62.1	46.6
77.5°	144.6	118.9	93.0	77.4	62.1	56.8	41.3	41.3	36.2	36.2	36.2
80°	103.4	87.9	67.2	56.8	41.3	41.3	36.2	31.1	25.7	25.7	31.1
82.5°	62.1	46.6	46.6	41.3	25.7	20.6	15.5	20.6	10.4	10.4	10.4
85°	36.2	31.1	25.7	15.5	10.4	10.4	5.1	0.0	5.1	5.1	0.0
87.5°	20.6	10.4	10.4	5.1	0.0	5.1	5.1	0.0	0.0	0.0	10.4
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: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10646.0	10640.7	10651.1	10651.1	10682.2	10676.9	10692.4	10692.4	10682.2	10687.3	10707.9
5°	10682.2	10697.7	10728.6	10754.5	10800.9	10821.7	10847.5	10873.4	10878.5	10894.1	10909.6
7.5°	10682.2	10733.9	10770.0	10816.4	10878.5	10914.7	10971.5	11018.1	11038.7	11064.4	11095.5
10°	10661.3	10713.0	10780.3	10831.9	10909.6	10966.4	11023.2	11095.5	11126.6	11167.8	11209.3
12.5°	10620.1	10676.9	10749.2	10816.4	10904.3	10956.0	11028.3	11095.5	11142.1	11198.9	11245.5
15°	10558.2	10625.2	10692.4	10759.6	10852.6	10914.7	10981.9	11059.3	11105.9	11167.8	11209.3
17.5°	10459.9	10532.2	10594.3	10656.2	10744.1	10816.4	10878.5	10950.9	10997.4	11049.1	11105.9
20°	10341.0	10408.2	10475.4	10527.1	10615.0	10676.9	10744.1	10811.3	10847.5	10857.9	10945.7
22.5°	10191.2	10237.6	10289.3	10372.1	10423.7	10480.5	10542.7	10604.6	10640.7	10697.7	10728.6
25°	9943.0	9989.6	10046.4	10082.5	10144.7	10191.2	10253.1	10320.4	10341.0	10382.5	10413.3
27.5°	9596.9	9622.7	9648.6	9679.4	9715.6	9741.6	9777.7	9808.8	9829.4	9850.0	9870.7
30°	9049.0	9049.0	9049.0	9028.3	9043.9	9059.4	9064.5	9059.4	9059.4	9054.3	9054.3
32.5°	8325.5	8284.2	8237.7	8196.4	8180.9	8160.2	8149.8	8134.3	8108.5	8093.0	8098.1
35°	7348.7	7255.8	7199.0	7147.3	7106.0	7074.9	7059.4	7043.9	7038.8	7018.2	6997.3
37.5°	6129.2	6062.0	6020.7	5989.7	5953.5	5922.5	5927.6	5932.9	5948.2	5938.0	5943.1
40°	4837.2	4821.6	4837.2	4801.0	4790.6	4801.0	4826.7	4863.1	4883.8	4904.4	4940.6
42.5°	3679.6	3705.3	3741.7	3741.7	3757.0	3777.8	3808.7	3865.7	3896.5	3932.7	3974.2
45°	2770.0	2801.1	2847.6	2863.0	2873.4	2899.1	2935.5	2981.9	3002.5	3033.5	3069.7
47.5°	2134.4	2155.0	2180.8	2206.7	2232.5	2242.9	2279.0	2279.0	2305.0	2325.6	2335.8
50°	1664.1	1684.7	1705.3	1720.9	1731.3	1746.8	1757.0	1772.6	1777.7	1788.1	1793.2
52.5°	1302.3	1328.2	1328.2	1338.4	1353.9	1369.5	1364.4	1369.5	1374.6	1374.6	1390.1
55°	1018.1	1018.1	1033.6	1033.6	1044.0	1038.7	1044.0	1044.0	1044.0	1044.0	1049.1
57.5°	759.6	764.9	780.5	770.0	764.9	775.1	764.9	775.1	770.0	780.5	764.9
60°	583.9	583.9	589.2	589.2	594.3	594.3	594.3	589.2	589.2	583.9	583.9
62.5°	439.3	444.4	449.7	444.4	444.4	444.4	439.3	439.3	434.2	428.8	428.8
65°	294.6	289.5	299.7	289.5	294.6	294.6	289.5	294.6	279.1	284.2	279.1
67.5°	211.9	206.8	201.7	206.8	201.7	196.3	196.3	201.7	206.8	191.2	191.2
70°	139.5	144.6	139.5	144.6	150.0	150.0	144.6	139.5	144.6	134.4	139.5
72.5°	87.9	87.9	87.9	87.9	87.9	93.0	93.0	93.0	82.7	82.7	77.4
75°	41.3	56.8	46.6	41.3	56.8	56.8	51.7	51.7	46.6	46.6	46.6
77.5°	41.3	31.1	31.1	31.1	31.1	31.1	31.1	31.1	25.7	31.1	25.7
80°	20.6	20.6	20.6	15.5	20.6	20.6	25.7	20.6	20.6	15.5	25.7
82.5°	10.4	10.4	10.4	0.0	5.1	10.4	10.4	5.1	10.4	10.4	5.1
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: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10702.8	10697.7	10702.8	10707.9	10702.8	10697.7	10702.8	10707.9	10687.3	10682.2	10692.4
5°	10930.2	10930.2	10940.4	10945.7	10940.4	10930.2	10930.2	10909.6	10894.1	10878.5	10873.4
7.5°	11126.6	11137.0	11147.2	11152.3	11147.2	11137.0	11126.6	11095.5	11064.4	11038.7	11018.1
10°	11245.5	11261.0	11281.6	11291.8	11281.6	11261.0	11245.5	11209.3	11167.8	11126.6	11095.5
12.5°	11297.2	11312.7	11338.4	11333.3	11338.4	11312.7	11297.2	11245.5	11198.9	11142.1	11095.5
15°	11261.0	11281.6	11307.4	11317.8	11307.4	11281.6	11261.0	11209.3	11167.8	11105.9	11059.3
17.5°	11147.2	11178.2	11193.8	11209.3	11193.8	11178.2	11147.2	11105.9	11049.1	10997.4	10950.9
20°	10992.1	11013.0	11033.6	11038.7	11033.6	11013.0	10992.1	10945.7	10857.9	10847.5	10811.3
22.5°	10770.0	10785.6	10831.9	10816.4	10831.9	10785.6	10770.0	10728.6	10697.7	10640.7	10604.6
25°	10449.5	10465.0	10470.3	10475.4	10470.3	10465.0	10449.5	10413.3	10382.5	10341.0	10320.4
27.5°	9896.6	9896.6	9906.8	9912.2	9906.8	9896.6	9896.6	9870.7	9850.0	9829.4	9808.8
30°	9059.4	9059.4	9059.4	9085.3	9059.4	9059.4	9059.4	9054.3	9054.3	9059.4	9059.4
32.5°	8093.0	8082.6	8072.4	8082.6	8072.4	8082.6	8093.0	8098.1	8093.0	8108.5	8134.3
35°	6997.3	6992.2	7007.7	6987.1	7007.7	6992.2	6997.3	6997.3	7018.2	7038.8	7043.9
37.5°	5948.2	5938.0	5958.6	5938.0	5958.6	5938.0	5948.2	5943.1	5938.0	5948.2	5932.9
40°	4951.0	4961.2	4961.2	5002.7	4961.2	4961.2	4951.0	4940.6	4904.4	4883.8	4863.1
42.5°	3994.8	4025.9	4015.4	4046.5	4015.4	4025.9	3994.8	3974.2	3932.7	3896.5	3865.7
45°	3090.3	3111.2	3111.2	3121.4	3111.2	3111.2	3090.3	3069.7	3033.5	3002.5	2981.9
47.5°	2372.0	2372.0	2372.0	2377.3	2372.0	2372.0	2372.0	2335.8	2325.6	2305.0	2279.0
50°	1803.6	1808.7	1814.0	1819.2	1814.0	1808.7	1803.6	1793.2	1788.1	1777.7	1772.6
52.5°	1385.0	1390.1	1379.9	1390.1	1379.9	1390.1	1385.0	1390.1	1374.6	1374.6	1369.5
55°	1049.1	1044.0	1049.1	1054.2	1049.1	1044.0	1049.1	1049.1	1044.0	1044.0	1044.0
57.5°	770.0	759.6	759.6	759.6	759.6	759.6	770.0	764.9	780.5	770.0	775.1
60°	573.7	578.8	578.8	583.9	578.8	578.8	573.7	583.9	583.9	589.2	589.2
62.5°	423.7	439.3	428.8	439.3	428.8	439.3	423.7	428.8	428.8	434.2	439.3
65°	274.0	274.0	274.0	279.1	274.0	274.0	274.0	279.1	284.2	279.1	294.6
67.5°	186.1	191.2	201.7	196.3	201.7	191.2	186.1	191.2	191.2	206.8	201.7
70°	150.0	134.4	134.4	150.0	134.4	134.4	150.0	139.5	134.4	144.6	139.5
72.5°	87.9	77.4	87.9	87.9	87.9	77.4	87.9	77.4	82.7	82.7	93.0
75°	46.6	41.3	36.2	51.7	36.2	41.3	46.6	46.6	46.6	46.6	51.7
77.5°	31.1	25.7	36.2	36.2	36.2	25.7	31.1	25.7	31.1	25.7	31.1
80°	15.5	20.6	15.5	25.7	15.5	20.6	15.5	25.7	15.5	20.6	20.6
82.5°	5.1	10.4	10.4	10.4	10.4	10.4	5.1	5.1	10.4	10.4	5.1
85°	0.0	10.4	5.1	5.1	5.1	10.4	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	0.0	0.0	5.1	0.0	0.0	5.1	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: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10692.4	10676.9	10682.2	10651.1	10651.1	10640.7	10646.0	10620.1	10609.9	10599.4	10615.0
5°	10847.5	10821.7	10800.9	10754.5	10728.6	10697.7	10682.2	10640.7	10604.6	10573.5	10568.4
7.5°	10971.5	10914.7	10878.5	10816.4	10770.0	10733.9	10682.2	10625.2	10578.8	10537.3	10506.5
10°	11023.2	10966.4	10909.6	10831.9	10780.3	10713.0	10661.3	10589.0	10527.1	10470.3	10434.0
12.5°	11028.3	10956.0	10904.3	10816.4	10749.2	10676.9	10620.1	10537.3	10465.0	10408.2	10351.4
15°	10981.9	10914.7	10852.6	10759.6	10692.4	10625.2	10558.2	10470.3	10403.1	10335.9	10294.6
17.5°	10878.5	10816.4	10744.1	10656.2	10594.3	10532.2	10459.9	10387.6	10309.9	10237.6	10185.9
20°	10744.1	10676.9	10615.0	10527.1	10475.4	10408.2	10341.0	10263.6	10201.5	10129.1	10072.3
22.5°	10542.7	10480.5	10423.7	10372.1	10289.3	10237.6	10191.2	10103.4	10041.3	9974.1	9912.2
25°	10253.1	10191.2	10144.7	10082.5	10046.4	9989.6	9943.0	9865.6	9808.8	9746.7	9695.0
27.5°	9777.7	9741.6	9715.6	9679.4	9648.6	9622.7	9596.9	9534.8	9493.5	9436.7	9385.0
30°	9064.5	9059.4	9043.9	9028.3	9049.0	9049.0	9049.0	9038.7	9002.6	8961.1	8924.9
32.5°	8149.8	8160.2	8180.9	8196.4	8237.7	8284.2	8325.5	8346.1	8346.1	8320.4	8304.9
35°	7059.4	7074.9	7106.0	7147.3	7199.0	7255.8	7348.7	7369.6	7384.9	7384.9	7364.2
37.5°	5927.6	5922.5	5953.5	5989.7	6020.7	6062.0	6129.2	6144.7	6170.5	6160.3	6139.4
40°	4826.7	4801.0	4790.6	4801.0	4837.2	4821.6	4837.2	4826.7	4826.7	4790.6	4790.6
42.5°	3808.7	3777.8	3757.0	3741.7	3741.7	3705.3	3679.6	3653.8	3638.3	3612.4	3607.2
45°	2935.5	2899.1	2873.4	2863.0	2847.6	2801.1	2770.0	2738.9	2702.8	2692.6	2697.7
47.5°	2279.0	2242.9	2232.5	2206.7	2180.8	2155.0	2134.4	2098.2	2092.9	2072.3	2092.9
50°	1757.0	1746.8	1731.3	1720.9	1705.3	1684.7	1664.1	1643.4	1633.0	1633.0	1638.1
52.5°	1364.4	1369.5	1353.9	1338.4	1328.2	1328.2	1302.3	1297.1	1297.1	1276.5	1297.1
55°	1044.0	1038.7	1044.0	1033.6	1033.6	1018.1	1018.1	1002.5	1002.5	987.0	997.4
57.5°	764.9	775.1	764.9	770.0	780.5	764.9	759.6	744.1	754.5	744.1	749.4
60°	594.3	594.3	594.3	589.2	589.2	583.9	583.9	578.8	578.8	568.4	578.8
62.5°	439.3	444.4	444.4	444.4	449.7	444.4	439.3	444.4	439.3	439.3	444.4
65°	289.5	294.6	294.6	289.5	299.7	289.5	294.6	299.7	304.8	299.7	304.8
67.5°	196.3	196.3	201.7	206.8	201.7	206.8	211.9	206.8	211.9	222.3	211.9
70°	144.6	150.0	150.0	144.6	139.5	144.6	139.5	155.1	155.1	155.1	165.3
72.5°	93.0	93.0	87.9	87.9	87.9	87.9	87.9	103.4	93.0	87.9	98.3
75°	51.7	56.8	56.8	41.3	46.6	56.8	41.3	46.6	62.1	51.7	62.1
77.5°	31.1	31.1	31.1	31.1	31.1	31.1	41.3	36.2	36.2	36.2	41.3
80°	25.7	20.6	20.6	15.5	20.6	20.6	20.6	31.1	25.7	25.7	31.1
82.5°	10.4	10.4	5.1	0.0	10.4	10.4	10.4	10.4	10.4	10.4	20.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	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: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10573.5	10573.5	10568.4	10558.2	10537.3	10537.3	10532.2	10516.7	10506.5	10501.2	10501.2
5°	10521.8	10501.2	10480.5	10423.7	10423.7	10413.3	10382.5	10361.6	10351.4	10325.5	10315.3
7.5°	10475.4	10413.3	10377.2	10341.0	10294.6	10273.8	10237.6	10222.1	10185.9	10160.2	10144.7
10°	10361.6	10320.4	10273.8	10217.0	10180.8	10139.6	10098.1	10067.2	10020.6	9994.7	9974.1
12.5°	10284.2	10222.1	10180.8	10118.7	10056.8	10020.6	9963.9	9927.7	9881.1	9829.4	9798.4
15°	10211.9	10144.7	10087.9	10020.6	9953.4	9912.2	9844.9	9803.7	9736.5	9684.8	9648.6
17.5°	10103.4	10046.4	9984.5	9901.7	9839.8	9788.1	9715.6	9664.1	9602.0	9534.8	9498.6
20°	9989.6	9922.4	9860.5	9777.7	9715.6	9653.7	9581.4	9524.6	9452.1	9390.2	9348.9
22.5°	9839.8	9762.2	9710.5	9627.8	9555.4	9488.4	9421.2	9354.0	9286.8	9235.1	9188.5
25°	9622.7	9539.9	9483.1	9415.9	9348.9	9297.2	9214.5	9173.2	9106.0	9059.4	9012.8
27.5°	9312.5	9250.6	9198.9	9131.7	9074.9	9033.6	8971.5	8930.3	8873.3	8832.0	8795.8
30°	8857.9	8806.2	8759.7	8692.4	8651.2	8615.0	8558.0	8521.8	8480.6	8434.0	8423.8
32.5°	8248.1	8206.6	8160.2	8113.6	8082.6	8062.0	8015.4	7994.7	7953.5	7927.5	7901.8
35°	7328.1	7291.9	7266.2	7245.5	7235.1	7240.2	7230.0	7250.7	7260.9	7255.8	7260.9
37.5°	6124.1	6103.3	6113.7	6129.2	6180.9	6248.1	6310.0	6403.0	6465.1	6527.2	6584.0
40°	4780.4	4795.9	4837.2	4930.1	5064.6	5214.5	5354.1	5529.8	5705.5	5829.5	5943.1
42.5°	3607.2	3653.8	3757.0	3891.4	4093.1	4315.2	4532.3	4790.6	5002.7	5209.2	5354.1
45°	2713.2	2775.1	2909.5	3095.7	3317.7	3576.2	3850.2	4139.5	4392.8	4604.7	4764.8
47.5°	2113.8	2170.6	2305.0	2501.3	2775.1	3044.0	3328.2	3627.9	3891.4	4098.2	4237.7
50°	1669.2	1741.5	1860.4	2067.2	2341.2	2625.3	2920.0	3214.4	3462.6	3638.3	3762.3
52.5°	1312.7	1379.9	1493.5	1710.7	1989.7	2273.9	2547.7	2837.2	3054.2	3224.8	3307.5
55°	1018.1	1080.2	1198.9	1379.9	1643.4	1922.5	2196.3	2444.5	2646.0	2770.0	2847.6
57.5°	775.1	821.7	904.5	1085.3	1323.1	1581.3	1814.0	2062.1	2217.1	2305.0	2356.5
60°	589.2	625.4	713.2	852.8	1069.8	1292.0	1488.4	1674.5	1798.5	1870.8	1922.5
62.5°	444.4	485.8	547.7	666.7	831.9	1013.0	1178.2	1317.8	1421.2	1467.7	1503.9
65°	304.8	335.9	382.5	475.4	615.0	744.1	873.4	976.8	1044.0	1095.7	1116.3
67.5°	227.4	248.0	274.0	346.3	444.4	547.7	635.6	707.9	780.5	801.1	837.3
70°	170.6	186.1	211.9	263.6	320.4	392.7	465.2	506.5	558.2	594.3	604.8
72.5°	108.5	113.6	139.5	170.6	217.0	263.6	310.1	346.3	377.4	398.0	408.2
75°	62.1	93.0	93.0	124.0	155.1	175.7	206.8	232.5	248.0	263.6	263.6
77.5°	41.3	56.8	62.1	77.4	93.0	118.9	144.6	160.2	175.7	180.8	180.8
80°	36.2	41.3	41.3	56.8	67.2	87.9	103.4	108.5	118.9	124.0	134.4
82.5°	15.5	20.6	25.7	41.3	46.6	46.6	62.1	67.2	77.4	82.7	82.7
85°	5.1	10.4	10.4	15.5	25.7	31.1	36.2	41.3	46.6	46.6	51.7
87.5°	5.1	5.1	0.0	5.1	10.4	10.4	20.6	20.6	20.6	31.1	31.1
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: P248838

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9	10583.9
2.5°	10491.0	10496.1	10475.4	10470.3	10459.9	10465.0	10475.4
5°	10299.7	10304.8	10284.2	10263.6	10263.6	10258.3	10263.6
7.5°	10118.7	10124.0	10093.0	10082.5	10061.9	10067.2	10067.2
10°	9937.9	9937.9	9891.5	9886.2	9870.7	9865.6	9865.6
12.5°	9762.2	9746.7	9710.5	9689.9	9700.3	9669.2	9669.2
15°	9607.1	9581.4	9534.8	9519.3	9493.5	9483.1	9483.1
17.5°	9446.9	9426.3	9385.0	9354.0	9322.9	9317.8	9322.9
20°	9291.9	9271.2	9219.6	9198.9	9173.2	9173.2	9162.8
22.5°	9136.8	9116.2	9069.8	9054.3	9018.1	9018.1	9023.2
25°	8976.6	8961.1	8909.4	8899.2	8894.1	8873.3	8883.7
27.5°	8759.7	8749.2	8708.0	8692.4	8671.8	8666.7	8676.9
30°	8361.7	8346.1	8315.3	8299.8	8263.6	8268.7	8278.9
32.5°	7865.6	7845.0	7803.5	7788.0	7757.1	7746.7	7751.8
35°	7245.5	7230.0	7193.9	7193.9	7162.8	7152.4	7162.8
37.5°	6615.1	6630.4	6615.1	6630.4	6615.1	6609.7	6615.1
40°	6020.7	6077.5	6087.7	6144.7	6124.1	6155.0	6149.8
42.5°	5452.1	5545.1	5581.5	5627.8	5617.6	5638.3	5653.8
45°	4878.4	4956.1	4992.2	5023.3	5028.4	5038.8	5043.9
47.5°	4335.8	4397.9	4403.0	4439.2	4434.1	4434.1	4449.6
50°	3829.5	3870.8	3881.0	3907.0	3886.3	3875.9	3881.0
52.5°	3359.2	3400.5	3390.1	3400.5	3374.7	3364.3	3369.4
55°	2878.5	2899.1	2899.1	2899.1	2868.3	2868.3	2868.3
57.5°	2387.5	2392.8	2382.4	2387.5	2382.4	2351.4	2346.3
60°	1938.1	1938.1	1932.7	1938.1	1922.5	1907.0	1907.0
62.5°	1514.1	1524.5	1545.2	1524.5	1514.1	1524.5	1509.0
65°	1131.9	1152.5	1147.2	1157.6	1152.5	1152.5	1142.1
67.5°	852.8	857.9	863.0	868.3	868.3	868.3	868.3
70°	625.4	640.9	635.6	635.6	635.6	635.6	666.7
72.5°	418.6	439.3	434.2	444.4	444.4	454.8	444.4
75°	284.2	304.8	294.6	310.1	304.8	294.6	320.4
77.5°	191.2	201.7	206.8	211.9	206.8	201.7	206.8
80°	134.4	144.6	139.5	144.6	144.6	144.6	150.0
82.5°	82.7	98.3	93.0	98.3	93.0	98.3	98.3
85°	56.8	62.1	51.7	62.1	56.8	56.8	67.2
87.5°	36.2	31.1	31.1	36.2	31.1	36.2	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)