

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: P248763

Luminaire Tested: **LD8B120D010 ER8B120827 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248763
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: LD8B120D010 ER8B120827 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10706.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

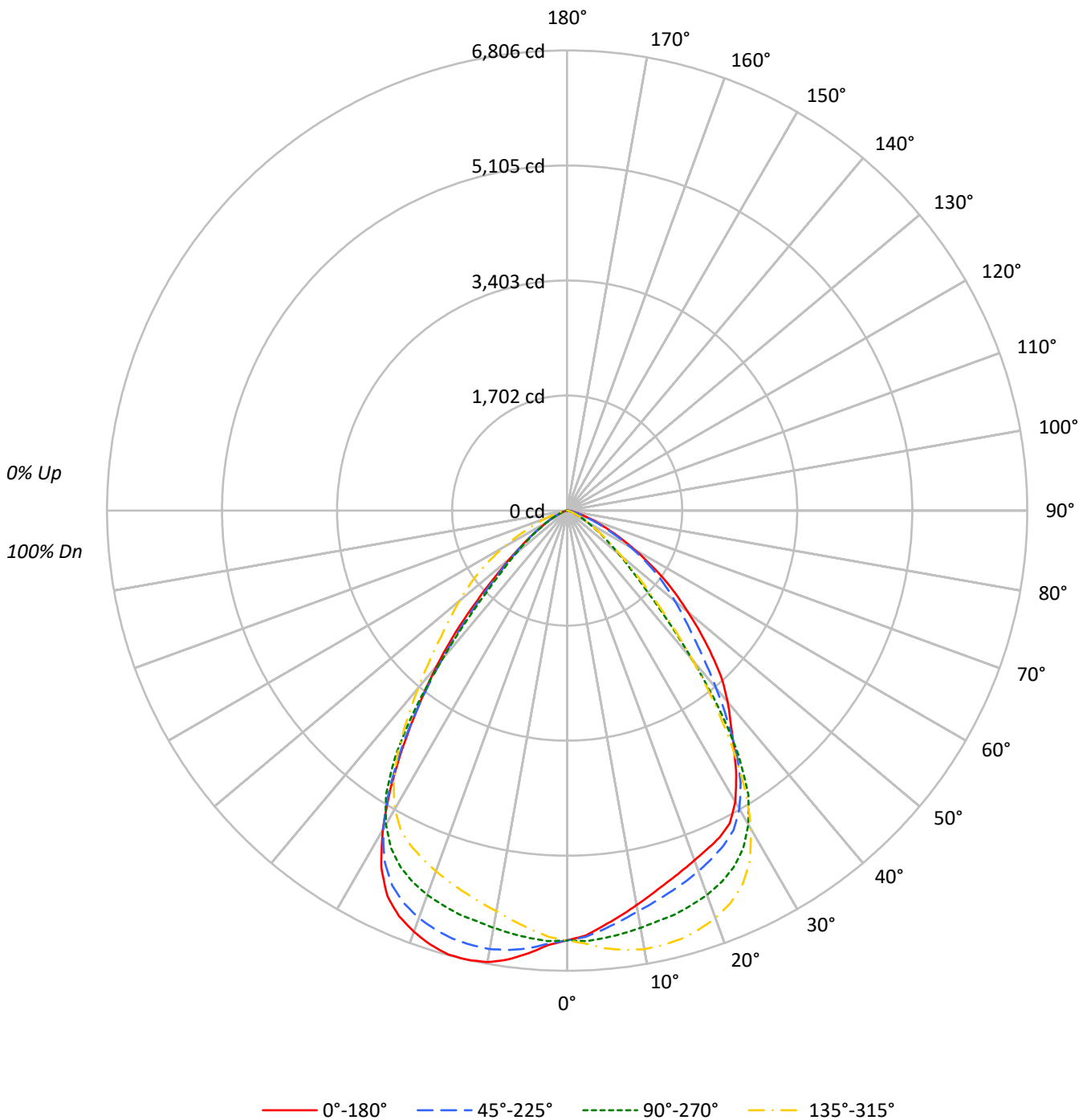
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	195989	195989	195989	195989
5°	190783	196450	203464	196450
10°	185505	196195	212324	196195
15°	181801	197358	216972	197358
20°	180563	198487	217529	198487
25°	181512	198088	214035	198088
30°	177022	190838	194267	190838
35°	161923	166474	157951	166474
40°	148662	115803	120931	115803
45°	132092	70647	81745	70647
50°	111805	47191	52405	47191
55°	92599	32203	34036	32203
60°	70627	21437	21622	21437
65°	50039	13360	12229	13360
70°	36091	8953	8123	8953
75°	22923	4444	3693	4444
80°	16000	3303	2752	3303
85°	14294	0	1097	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.0	5.7
10°-20°	1751.8	16.4
20°-30°	2652.6	24.8
30°-40°	2658.6	24.8
40°-50°	1669.5	15.6
50°-60°	889.7	8.3
60°-70°	365.8	3.4
70°-80°	96.7	0.9
80°-90°	16.4	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°	5009.4	46.8
0°-40°	7668.0	71.6
0°-60°	10227.2	95.5
0°-90°	10706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10706.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6356	6356	6356	6356	6356	
5°	6163	6346	6573	6346	6163	581
15°	5695	6182	6796	6182	5695	1611
25°	5335	5822	6291	5822	5335	2447
35°	4301	4422	4196	4422	4301	2695
45°	3029	1620	1874	1620	3029	2330
55°	1722	599	633	599	1722	1536
65°	686	183	168	183	686	711
75°	192	37	31	37	192	218
85°	40	0	3	0	40	44
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°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6290.7	6284.4	6281.3	6287.6	6290.7	6303.1	6300.0	6306.1	6306.1	6309.3	6315.4
5°	6163.4	6160.2	6163.4	6163.4	6175.8	6188.2	6185.2	6194.5	6200.6	6216.2	6222.3
7.5°	6045.5	6045.5	6042.3	6054.7	6061.0	6079.6	6076.4	6092.0	6101.4	6116.8	6138.5
10°	5924.4	5924.4	5927.5	5936.8	5940.0	5967.9	5967.9	5989.6	6002.0	6017.6	6045.5
12.5°	5806.5	5806.5	5825.2	5818.9	5831.3	5853.0	5862.4	5884.1	5902.7	5933.8	5961.7
15°	5694.8	5694.8	5701.0	5716.5	5725.8	5753.8	5769.2	5794.1	5815.9	5846.9	5887.3
17.5°	5598.6	5595.5	5598.6	5617.2	5635.9	5660.7	5673.0	5704.1	5725.8	5766.2	5803.5
20°	5502.4	5508.6	5508.6	5524.1	5536.5	5567.5	5579.9	5614.2	5638.9	5676.1	5719.7
22.5°	5418.6	5415.5	5415.5	5437.2	5446.6	5474.4	5486.8	5517.8	5545.8	5576.9	5617.2
25°	5334.8	5328.5	5341.0	5344.1	5350.2	5381.3	5390.6	5412.3	5440.3	5468.3	5508.6
27.5°	5210.6	5204.5	5207.6	5220.0	5229.3	5254.1	5260.3	5282.0	5303.7	5328.5	5362.8
30°	4971.6	4965.5	4962.4	4984.1	4993.5	5012.0	5021.3	5058.6	5064.7	5092.7	5117.5
32.5°	4655.1	4652.0	4658.3	4676.8	4686.1	4711.0	4723.4	4745.1	4760.6	4776.2	4801.0
35°	4301.4	4295.1	4301.4	4320.0	4320.0	4341.7	4351.1	4360.3	4357.2	4360.3	4354.1
37.5°	3972.4	3969.3	3972.4	3981.6	3972.4	3981.6	3972.4	3953.8	3919.7	3882.4	3845.1
40°	3693.1	3696.1	3677.6	3690.0	3655.8	3649.6	3615.5	3568.9	3500.7	3426.2	3320.7
42.5°	3395.2	3385.9	3373.5	3379.6	3351.8	3329.9	3274.1	3215.2	3128.2	3004.2	2876.8
45°	3029.0	3025.9	3019.6	3016.6	2997.9	2976.2	2929.6	2861.4	2765.2	2638.0	2485.8
47.5°	2672.1	2662.7	2662.7	2665.8	2644.1	2641.0	2603.7	2544.8	2461.0	2336.9	2178.6
50°	2330.6	2327.5	2333.8	2346.2	2330.6	2324.5	2299.7	2259.3	2184.9	2079.3	1930.3
52.5°	2023.4	2020.3	2026.6	2042.0	2035.8	2042.0	2017.3	1986.2	1936.5	1834.1	1703.8
55°	1722.4	1722.4	1722.4	1741.0	1741.0	1741.0	1728.6	1710.1	1663.4	1589.0	1468.0
57.5°	1409.0	1412.0	1430.7	1433.7	1430.7	1436.9	1433.7	1415.1	1384.2	1331.4	1238.3
60°	1145.2	1145.2	1154.5	1163.8	1160.6	1163.8	1163.8	1154.5	1123.5	1080.0	1005.6
62.5°	906.2	915.5	909.3	915.5	927.9	915.5	909.3	903.1	881.4	853.4	791.3
65°	685.8	692.1	692.1	695.2	688.9	692.1	679.7	670.4	658.0	626.9	586.6
67.5°	521.4	521.4	521.4	521.4	518.2	515.2	512.1	502.8	481.1	468.7	425.1
70°	400.3	381.7	381.7	381.7	381.7	384.9	375.6	363.2	356.9	335.2	304.1
72.5°	266.8	273.1	266.8	266.8	260.7	263.8	251.4	245.1	239.0	226.6	208.0
75°	192.4	176.9	183.1	186.2	176.9	183.1	170.7	158.3	158.3	148.9	139.6
77.5°	124.2	121.1	124.2	127.2	124.2	121.1	114.8	108.6	108.6	105.5	96.2
80°	90.1	86.9	86.9	86.9	83.8	86.9	80.7	80.7	74.5	71.4	65.1
82.5°	59.0	59.0	55.8	59.0	55.8	59.0	49.7	49.7	49.7	46.5	40.4
85°	40.4	34.1	34.1	37.3	31.0	37.3	34.1	31.0	28.0	28.0	24.8
87.5°	18.6	21.7	18.6	21.7	18.6	18.6	21.7	18.6	18.6	12.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6324.8	6327.8	6327.8	6340.4	6346.5	6349.6	6349.6	6374.5	6365.1	6371.4	6377.5
5°	6234.8	6253.4	6259.6	6259.6	6293.7	6306.1	6318.5	6346.5	6349.6	6368.2	6389.9
7.5°	6147.9	6169.6	6182.1	6209.9	6231.7	6253.4	6290.7	6309.3	6327.8	6352.7	6380.6
10°	6064.1	6089.0	6113.7	6135.5	6169.6	6197.5	6222.3	6265.8	6287.6	6321.7	6358.9
12.5°	5983.5	6017.6	6039.3	6076.4	6113.7	6138.5	6175.8	6216.2	6250.3	6284.4	6327.8
15°	5912.0	5952.4	5977.2	6017.6	6057.9	6092.0	6132.4	6182.1	6206.9	6247.2	6287.6
17.5°	5834.4	5877.9	5909.0	5946.2	5995.8	6033.0	6067.2	6116.8	6147.9	6191.3	6237.9
20°	5753.8	5797.2	5834.4	5871.7	5921.4	5958.5	5998.9	6048.6	6082.7	6126.1	6163.4
22.5°	5657.6	5698.0	5738.2	5781.6	5831.3	5862.4	5909.0	5952.4	5989.6	6029.9	6067.2
25°	5533.4	5583.1	5614.2	5654.4	5694.8	5728.9	5778.6	5822.0	5853.0	5890.3	5924.4
27.5°	5387.5	5424.8	5449.6	5483.7	5524.1	5555.1	5592.3	5635.9	5666.9	5701.0	5725.8
30°	5139.2	5173.5	5195.2	5220.0	5260.3	5288.3	5319.3	5359.6	5381.3	5406.2	5427.9
32.5°	4813.4	4841.3	4853.7	4872.4	4900.3	4928.2	4953.1	4987.2	4996.5	5012.0	5012.0
35°	4341.7	4347.9	4344.8	4351.1	4363.5	4378.9	4400.6	4422.3	4434.7	4434.7	4425.5
37.5°	3789.3	3752.1	3711.7	3680.7	3671.4	3665.1	3677.6	3686.8	3699.3	3705.5	3690.0
40°	3215.2	3131.4	3041.4	2960.6	2904.8	2880.0	2870.7	2876.8	2876.8	2898.5	2898.5
42.5°	2721.7	2591.3	2458.0	2336.9	2256.1	2194.2	2166.2	2166.2	2169.3	2184.9	2194.2
45°	2312.1	2147.6	1992.4	1859.0	1747.2	1666.5	1629.3	1620.0	1616.9	1623.1	1644.8
47.5°	1998.6	1828.0	1666.5	1502.1	1384.2	1303.5	1269.3	1256.8	1244.4	1256.8	1260.0
50°	1753.5	1576.6	1405.9	1241.4	1117.2	1045.8	1002.4	983.7	980.7	980.7	986.9
52.5°	1529.9	1365.5	1194.9	1027.3	896.9	828.6	788.3	779.0	766.6	779.0	779.0
55°	1318.9	1154.5	986.9	828.6	719.9	648.7	611.4	599.0	592.7	602.0	602.0
57.5°	1089.4	949.6	794.5	651.7	543.1	493.5	465.5	450.0	446.8	453.1	446.8
60°	893.8	775.9	642.4	512.1	428.3	375.6	353.8	347.6	341.3	347.6	347.6
62.5°	707.5	608.3	499.6	400.3	328.9	291.8	266.8	266.8	263.8	263.8	266.8
65°	524.5	446.8	369.3	285.5	229.7	201.7	183.1	183.1	180.0	183.1	180.0
67.5°	381.7	328.9	266.8	208.0	164.5	148.9	136.6	127.2	133.5	127.2	124.2
70°	279.4	235.8	192.4	158.3	127.2	111.8	102.4	99.3	93.1	93.1	93.1
72.5°	186.2	158.3	130.3	102.4	83.8	68.2	65.1	59.0	52.8	55.8	62.1
75°	124.2	105.5	93.1	74.5	55.8	55.8	37.3	37.3	31.0	37.3	28.0
77.5°	86.9	71.4	55.8	46.5	37.3	34.1	24.8	24.8	21.7	21.7	21.7
80°	62.1	52.8	40.4	34.1	24.8	24.8	21.7	18.6	15.5	15.5	18.6
82.5°	37.3	28.0	28.0	24.8	15.5	12.4	9.3	12.4	6.3	6.3	6.3
85°	21.7	18.6	15.5	9.3	6.3	6.3	3.1	0.0	3.1	3.1	0.0
87.5°	12.4	6.3	6.3	3.1	0.0	3.1	3.1	0.0	0.0	0.0	6.3
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°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6393.1	6389.9	6396.2	6396.2	6414.8	6411.6	6421.0	6421.0	6414.8	6417.9	6430.3
5°	6414.8	6424.2	6442.7	6458.3	6486.1	6498.6	6514.1	6529.7	6532.7	6542.1	6551.4
7.5°	6414.8	6445.9	6467.6	6495.4	6532.7	6554.4	6588.6	6616.5	6628.9	6644.4	6663.0
10°	6402.3	6433.4	6473.7	6504.8	6551.4	6585.5	6619.6	6663.0	6681.7	6706.5	6731.4
12.5°	6377.5	6411.6	6455.1	6495.4	6548.2	6579.2	6622.7	6663.0	6691.0	6725.1	6753.1
15°	6340.4	6380.6	6421.0	6461.3	6517.1	6554.4	6594.8	6641.3	6669.3	6706.5	6731.4
17.5°	6281.3	6324.8	6362.1	6399.2	6452.0	6495.4	6532.7	6576.2	6604.1	6635.2	6669.3
20°	6209.9	6250.3	6290.7	6321.7	6374.5	6411.6	6452.0	6492.4	6514.1	6520.3	6573.1
22.5°	6120.0	6147.9	6178.9	6228.6	6259.6	6293.7	6331.0	6368.2	6389.9	6424.2	6442.7
25°	5970.9	5998.9	6033.0	6054.7	6092.0	6120.0	6157.2	6197.5	6209.9	6234.8	6253.4
27.5°	5763.1	5778.6	5794.1	5812.7	5834.4	5850.0	5871.7	5890.3	5902.7	5915.1	5927.5
30°	5434.0	5434.0	5434.0	5421.7	5431.0	5440.3	5443.4	5440.3	5440.3	5437.2	5437.2
32.5°	4999.6	4974.8	4946.8	4922.1	4912.7	4900.3	4894.1	4884.8	4869.3	4860.0	4863.0
35°	4413.0	4357.2	4323.1	4292.1	4267.3	4248.6	4239.3	4230.0	4226.9	4214.5	4202.0
37.5°	3680.7	3640.3	3615.5	3596.9	3575.2	3556.5	3559.6	3562.8	3572.0	3565.9	3568.9
40°	2904.8	2895.5	2904.8	2883.1	2876.8	2883.1	2898.5	2920.4	2932.8	2945.2	2966.9
42.5°	2209.6	2225.1	2246.9	2246.9	2256.1	2268.7	2287.2	2321.4	2339.9	2361.7	2386.6
45°	1663.4	1682.1	1710.1	1719.2	1725.5	1741.0	1762.8	1790.7	1803.0	1821.7	1843.4
47.5°	1281.7	1294.1	1309.6	1325.2	1340.6	1346.9	1368.6	1368.6	1384.2	1396.6	1402.7
50°	999.3	1011.7	1024.1	1033.4	1039.7	1049.0	1055.1	1064.5	1067.5	1073.8	1076.8
52.5°	782.0	797.6	797.6	803.7	813.1	822.4	819.3	822.4	825.5	825.5	834.8
55°	611.4	611.4	620.7	620.7	626.9	623.8	626.9	626.9	626.9	626.9	630.0
57.5°	456.2	459.4	468.7	462.4	459.4	465.5	459.4	465.5	462.4	468.7	459.4
60°	350.6	350.6	353.8	353.8	356.9	356.9	356.9	353.8	353.8	350.6	350.6
62.5°	263.8	266.8	270.0	266.8	266.8	266.8	263.8	263.8	260.7	257.5	257.5
65°	176.9	173.9	180.0	173.9	176.9	176.9	173.9	176.9	167.6	170.7	167.6
67.5°	127.2	124.2	121.1	124.2	121.1	117.9	117.9	121.1	124.2	114.8	114.8
70°	83.8	86.9	83.8	86.9	90.1	90.1	86.9	83.8	86.9	80.7	83.8
72.5°	52.8	52.8	52.8	52.8	52.8	55.8	55.8	55.8	49.7	49.7	46.5
75°	24.8	34.1	28.0	24.8	34.1	34.1	31.0	31.0	28.0	28.0	28.0
77.5°	24.8	18.6	18.6	18.6	18.6	18.6	18.6	18.6	15.5	18.6	15.5
80°	12.4	12.4	12.4	9.3	12.4	12.4	15.5	12.4	12.4	9.3	15.5
82.5°	6.3	6.3	6.3	0.0	3.1	6.3	6.3	3.1	6.3	6.3	3.1
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: P248763

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6427.2	6424.2	6427.2	6430.3	6427.2	6424.2	6427.2	6430.3	6417.9	6414.8	6421.0
5°	6563.8	6563.8	6569.9	6573.1	6569.9	6563.8	6563.8	6551.4	6542.1	6532.7	6529.7
7.5°	6681.7	6687.9	6694.1	6697.1	6694.1	6687.9	6681.7	6663.0	6644.4	6628.9	6616.5
10°	6753.1	6762.4	6774.8	6780.9	6774.8	6762.4	6753.1	6731.4	6706.5	6681.7	6663.0
12.5°	6784.1	6793.4	6808.9	6805.8	6808.9	6793.4	6784.1	6753.1	6725.1	6691.0	6663.0
15°	6762.4	6774.8	6790.3	6796.5	6790.3	6774.8	6762.4	6731.4	6706.5	6669.3	6641.3
17.5°	6694.1	6712.7	6722.0	6731.4	6722.0	6712.7	6694.1	6669.3	6635.2	6604.1	6576.2
20°	6600.9	6613.5	6625.9	6628.9	6625.9	6613.5	6600.9	6573.1	6520.3	6514.1	6492.4
22.5°	6467.6	6476.9	6504.8	6495.4	6504.8	6476.9	6467.6	6442.7	6424.2	6389.9	6368.2
25°	6275.1	6284.4	6287.6	6290.7	6287.6	6284.4	6275.1	6253.4	6234.8	6209.9	6197.5
27.5°	5943.1	5943.1	5949.2	5952.4	5949.2	5943.1	5943.1	5927.5	5915.1	5902.7	5890.3
30°	5440.3	5440.3	5440.3	5455.9	5440.3	5440.3	5440.3	5437.2	5437.2	5440.3	5440.3
32.5°	4860.0	4853.7	4847.6	4853.7	4847.6	4853.7	4860.0	4863.0	4860.0	4869.3	4884.8
35°	4202.0	4198.9	4208.3	4195.9	4208.3	4198.9	4202.0	4202.0	4214.5	4226.9	4230.0
37.5°	3572.0	3565.9	3578.2	3565.9	3578.2	3565.9	3572.0	3568.9	3565.9	3572.0	3562.8
40°	2973.1	2979.3	2979.3	3004.2	2979.3	2979.3	2973.1	2966.9	2945.2	2932.8	2920.4
42.5°	2399.0	2417.6	2411.3	2430.0	2411.3	2417.6	2399.0	2386.6	2361.7	2339.9	2321.4
45°	1855.8	1868.3	1868.3	1874.5	1868.3	1868.3	1855.8	1843.4	1821.7	1803.0	1790.7
47.5°	1424.4	1424.4	1424.4	1427.6	1424.4	1424.4	1424.4	1402.7	1396.6	1384.2	1368.6
50°	1083.1	1086.2	1089.4	1092.4	1089.4	1086.2	1083.1	1076.8	1073.8	1067.5	1064.5
52.5°	831.7	834.8	828.6	834.8	828.6	834.8	831.7	834.8	825.5	825.5	822.4
55°	630.0	626.9	630.0	633.1	630.0	626.9	630.0	630.0	626.9	626.9	626.9
57.5°	462.4	456.2	456.2	456.2	456.2	456.2	462.4	459.4	468.7	462.4	465.5
60°	344.5	347.6	347.6	350.6	347.6	347.6	344.5	350.6	350.6	353.8	353.8
62.5°	254.5	263.8	257.5	263.8	257.5	263.8	254.5	257.5	257.5	260.7	263.8
65°	164.5	164.5	164.5	167.6	164.5	164.5	164.5	167.6	170.7	167.6	176.9
67.5°	111.8	114.8	121.1	117.9	121.1	114.8	111.8	114.8	114.8	124.2	121.1
70°	90.1	80.7	80.7	90.1	80.7	80.7	90.1	83.8	80.7	86.9	83.8
72.5°	52.8	46.5	52.8	52.8	52.8	46.5	52.8	46.5	49.7	49.7	55.8
75°	28.0	24.8	21.7	31.0	21.7	24.8	28.0	28.0	28.0	28.0	31.0
77.5°	18.6	15.5	21.7	21.7	21.7	15.5	18.6	15.5	18.6	15.5	18.6
80°	9.3	12.4	9.3	15.5	9.3	12.4	9.3	15.5	9.3	12.4	12.4
82.5°	3.1	6.3	6.3	6.3	6.3	6.3	3.1	3.1	6.3	6.3	3.1
85°	0.0	6.3	3.1	3.1	3.1	6.3	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	0.0	3.1	0.0	0.0	3.1	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: P248763

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6421.0	6411.6	6414.8	6396.2	6396.2	6389.9	6393.1	6377.5	6371.4	6365.1	6374.5
5°	6514.1	6498.6	6486.1	6458.3	6442.7	6424.2	6414.8	6389.9	6368.2	6349.6	6346.5
7.5°	6588.6	6554.4	6532.7	6495.4	6467.6	6445.9	6414.8	6380.6	6352.7	6327.8	6309.3
10°	6619.6	6585.5	6551.4	6504.8	6473.7	6433.4	6402.3	6358.9	6321.7	6287.6	6265.8
12.5°	6622.7	6579.2	6548.2	6495.4	6455.1	6411.6	6377.5	6327.8	6284.4	6250.3	6216.2
15°	6594.8	6554.4	6517.1	6461.3	6421.0	6380.6	6340.4	6287.6	6247.2	6206.9	6182.1
17.5°	6532.7	6495.4	6452.0	6399.2	6362.1	6324.8	6281.3	6237.9	6191.3	6147.9	6116.8
20°	6452.0	6411.6	6374.5	6321.7	6290.7	6250.3	6209.9	6163.4	6126.1	6082.7	6048.6
22.5°	6331.0	6293.7	6259.6	6228.6	6178.9	6147.9	6120.0	6067.2	6029.9	5989.6	5952.4
25°	6157.2	6120.0	6092.0	6054.7	6033.0	5998.9	5970.9	5924.4	5890.3	5853.0	5822.0
27.5°	5871.7	5850.0	5834.4	5812.7	5794.1	5778.6	5763.1	5725.8	5701.0	5666.9	5635.9
30°	5443.4	5440.3	5431.0	5421.7	5434.0	5434.0	5434.0	5427.9	5406.2	5381.3	5359.6
32.5°	4894.1	4900.3	4912.7	4922.1	4946.8	4974.8	4999.6	5012.0	5012.0	4996.5	4987.2
35°	4239.3	4248.6	4267.3	4292.1	4323.1	4357.2	4413.0	4425.5	4434.7	4434.7	4422.3
37.5°	3559.6	3556.5	3575.2	3596.9	3615.5	3640.3	3680.7	3690.0	3705.5	3699.3	3686.8
40°	2898.5	2883.1	2876.8	2883.1	2904.8	2895.5	2904.8	2898.5	2898.5	2876.8	2876.8
42.5°	2287.2	2268.7	2256.1	2246.9	2246.9	2225.1	2209.6	2194.2	2184.9	2169.3	2166.2
45°	1762.8	1741.0	1725.5	1719.2	1710.1	1682.1	1663.4	1644.8	1623.1	1616.9	1620.0
47.5°	1368.6	1346.9	1340.6	1325.2	1309.6	1294.1	1281.7	1260.0	1256.8	1244.4	1256.8
50°	1055.1	1049.0	1039.7	1033.4	1024.1	1011.7	999.3	986.9	980.7	980.7	983.7
52.5°	819.3	822.4	813.1	803.7	797.6	797.6	782.0	779.0	779.0	766.6	779.0
55°	626.9	623.8	626.9	620.7	620.7	611.4	611.4	602.0	602.0	592.7	599.0
57.5°	459.4	465.5	459.4	462.4	468.7	459.4	456.2	446.8	453.1	446.8	450.0
60°	356.9	356.9	356.9	353.8	353.8	350.6	350.6	347.6	347.6	341.3	347.6
62.5°	263.8	266.8	266.8	266.8	270.0	266.8	263.8	266.8	263.8	263.8	266.8
65°	173.9	176.9	176.9	173.9	180.0	173.9	176.9	180.0	183.1	180.0	183.1
67.5°	117.9	117.9	121.1	124.2	121.1	124.2	127.2	124.2	127.2	133.5	127.2
70°	86.9	90.1	90.1	86.9	83.8	86.9	83.8	93.1	93.1	93.1	99.3
72.5°	55.8	55.8	52.8	52.8	52.8	52.8	52.8	62.1	55.8	52.8	59.0
75°	31.0	34.1	34.1	24.8	28.0	34.1	24.8	28.0	37.3	31.0	37.3
77.5°	18.6	18.6	18.6	18.6	18.6	18.6	24.8	21.7	21.7	21.7	24.8
80°	15.5	12.4	12.4	9.3	12.4	12.4	12.4	18.6	15.5	15.5	18.6
82.5°	6.3	6.3	3.1	0.0	6.3	6.3	6.3	6.3	6.3	6.3	12.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	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: P248763

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6349.6	6349.6	6346.5	6340.4	6327.8	6327.8	6324.8	6315.4	6309.3	6306.1	6306.1
5°	6318.5	6306.1	6293.7	6259.6	6259.6	6253.4	6234.8	6222.3	6216.2	6200.6	6194.5
7.5°	6290.7	6253.4	6231.7	6209.9	6182.1	6169.6	6147.9	6138.5	6116.8	6101.4	6092.0
10°	6222.3	6197.5	6169.6	6135.5	6113.7	6089.0	6064.1	6045.5	6017.6	6002.0	5989.6
12.5°	6175.8	6138.5	6113.7	6076.4	6039.3	6017.6	5983.5	5961.7	5933.8	5902.7	5884.1
15°	6132.4	6092.0	6057.9	6017.6	5977.2	5952.4	5912.0	5887.3	5846.9	5815.9	5794.1
17.5°	6067.2	6033.0	5995.8	5946.2	5909.0	5877.9	5834.4	5803.5	5766.2	5725.8	5704.1
20°	5998.9	5958.5	5921.4	5871.7	5834.4	5797.2	5753.8	5719.7	5676.1	5638.9	5614.2
22.5°	5909.0	5862.4	5831.3	5781.6	5738.2	5698.0	5657.6	5617.2	5576.9	5545.8	5517.8
25°	5778.6	5728.9	5694.8	5654.4	5614.2	5583.1	5533.4	5508.6	5468.3	5440.3	5412.3
27.5°	5592.3	5555.1	5524.1	5483.7	5449.6	5424.8	5387.5	5362.8	5328.5	5303.7	5282.0
30°	5319.3	5288.3	5260.3	5220.0	5195.2	5173.5	5139.2	5117.5	5092.7	5064.7	5058.6
32.5°	4953.1	4928.2	4900.3	4872.4	4853.7	4841.3	4813.4	4801.0	4776.2	4760.6	4745.1
35°	4400.6	4378.9	4363.5	4351.1	4344.8	4347.9	4341.7	4354.1	4360.3	4357.2	4360.3
37.5°	3677.6	3665.1	3671.4	3680.7	3711.7	3752.1	3789.3	3845.1	3882.4	3919.7	3953.8
40°	2870.7	2880.0	2904.8	2960.6	3041.4	3131.4	3215.2	3320.7	3426.2	3500.7	3568.9
42.5°	2166.2	2194.2	2256.1	2336.9	2458.0	2591.3	2721.7	2876.8	3004.2	3128.2	3215.2
45°	1629.3	1666.5	1747.2	1859.0	1992.4	2147.6	2312.1	2485.8	2638.0	2765.2	2861.4
47.5°	1269.3	1303.5	1384.2	1502.1	1666.5	1828.0	1998.6	2178.6	2336.9	2461.0	2544.8
50°	1002.4	1045.8	1117.2	1241.4	1405.9	1576.6	1753.5	1930.3	2079.3	2184.9	2259.3
52.5°	788.3	828.6	896.9	1027.3	1194.9	1365.5	1529.9	1703.8	1834.1	1936.5	1986.2
55°	611.4	648.7	719.9	828.6	986.9	1154.5	1318.9	1468.0	1589.0	1663.4	1710.1
57.5°	465.5	493.5	543.1	651.7	794.5	949.6	1089.4	1238.3	1331.4	1384.2	1415.1
60°	353.8	375.6	428.3	512.1	642.4	775.9	893.8	1005.6	1080.0	1123.5	1154.5
62.5°	266.8	291.8	328.9	400.3	499.6	608.3	707.5	791.3	853.4	881.4	903.1
65°	183.1	201.7	229.7	285.5	369.3	446.8	524.5	586.6	626.9	658.0	670.4
67.5°	136.6	148.9	164.5	208.0	266.8	328.9	381.7	425.1	468.7	481.1	502.8
70°	102.4	111.8	127.2	158.3	192.4	235.8	279.4	304.1	335.2	356.9	363.2
72.5°	65.1	68.2	83.8	102.4	130.3	158.3	186.2	208.0	226.6	239.0	245.1
75°	37.3	55.8	55.8	74.5	93.1	105.5	124.2	139.6	148.9	158.3	158.3
77.5°	24.8	34.1	37.3	46.5	55.8	71.4	86.9	96.2	105.5	108.6	108.6
80°	21.7	24.8	24.8	34.1	40.4	52.8	62.1	65.1	71.4	74.5	80.7
82.5°	9.3	12.4	15.5	24.8	28.0	28.0	37.3	40.4	46.5	49.7	49.7
85°	3.1	6.3	6.3	9.3	15.5	18.6	21.7	24.8	28.0	28.0	31.0
87.5°	3.1	3.1	0.0	3.1	6.3	6.3	12.4	12.4	12.4	18.6	18.6
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: P248763

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8	6355.8
2.5°	6300.0	6303.1	6290.7	6287.6	6281.3	6284.4	6290.7
5°	6185.2	6188.2	6175.8	6163.4	6163.4	6160.2	6163.4
7.5°	6076.4	6079.6	6061.0	6054.7	6042.3	6045.5	6045.5
10°	5967.9	5967.9	5940.0	5936.8	5927.5	5924.4	5924.4
12.5°	5862.4	5853.0	5831.3	5818.9	5825.2	5806.5	5806.5
15°	5769.2	5753.8	5725.8	5716.5	5701.0	5694.8	5694.8
17.5°	5673.0	5660.7	5635.9	5617.2	5598.6	5595.5	5598.6
20°	5579.9	5567.5	5536.5	5524.1	5508.6	5508.6	5502.4
22.5°	5486.8	5474.4	5446.6	5437.2	5415.5	5415.5	5418.6
25°	5390.6	5381.3	5350.2	5344.1	5341.0	5328.5	5334.8
27.5°	5260.3	5254.1	5229.3	5220.0	5207.6	5204.5	5210.6
30°	5021.3	5012.0	4993.5	4984.1	4962.4	4965.5	4971.6
32.5°	4723.4	4711.0	4686.1	4676.8	4658.3	4652.0	4655.1
35°	4351.1	4341.7	4320.0	4320.0	4301.4	4295.1	4301.4
37.5°	3972.4	3981.6	3972.4	3981.6	3972.4	3969.3	3972.4
40°	3615.5	3649.6	3655.8	3690.0	3677.6	3696.1	3693.1
42.5°	3274.1	3329.9	3351.8	3379.6	3373.5	3385.9	3395.2
45°	2929.6	2976.2	2997.9	3016.6	3019.6	3025.9	3029.0
47.5°	2603.7	2641.0	2644.1	2665.8	2662.7	2662.7	2672.1
50°	2299.7	2324.5	2330.6	2346.2	2333.8	2327.5	2330.6
52.5°	2017.3	2042.0	2035.8	2042.0	2026.6	2020.3	2023.4
55°	1728.6	1741.0	1741.0	1741.0	1722.4	1722.4	1722.4
57.5°	1433.7	1436.9	1430.7	1433.7	1430.7	1412.0	1409.0
60°	1163.8	1163.8	1160.6	1163.8	1154.5	1145.2	1145.2
62.5°	909.3	915.5	927.9	915.5	909.3	915.5	906.2
65°	679.7	692.1	688.9	695.2	692.1	692.1	685.8
67.5°	512.1	515.2	518.2	521.4	521.4	521.4	521.4
70°	375.6	384.9	381.7	381.7	381.7	381.7	400.3
72.5°	251.4	263.8	260.7	266.8	266.8	273.1	266.8
75°	170.7	183.1	176.9	186.2	183.1	176.9	192.4
77.5°	114.8	121.1	124.2	127.2	124.2	121.1	124.2
80°	80.7	86.9	83.8	86.9	86.9	86.9	90.1
82.5°	49.7	59.0	55.8	59.0	55.8	59.0	59.0
85°	34.1	37.3	31.0	37.3	34.1	34.1	40.4
87.5°	21.7	18.6	18.6	21.7	18.6	21.7	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)