

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: P248664

Luminaire Tested: **LD8B120D010 ER8B120830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248664
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 ER8B120830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11754.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

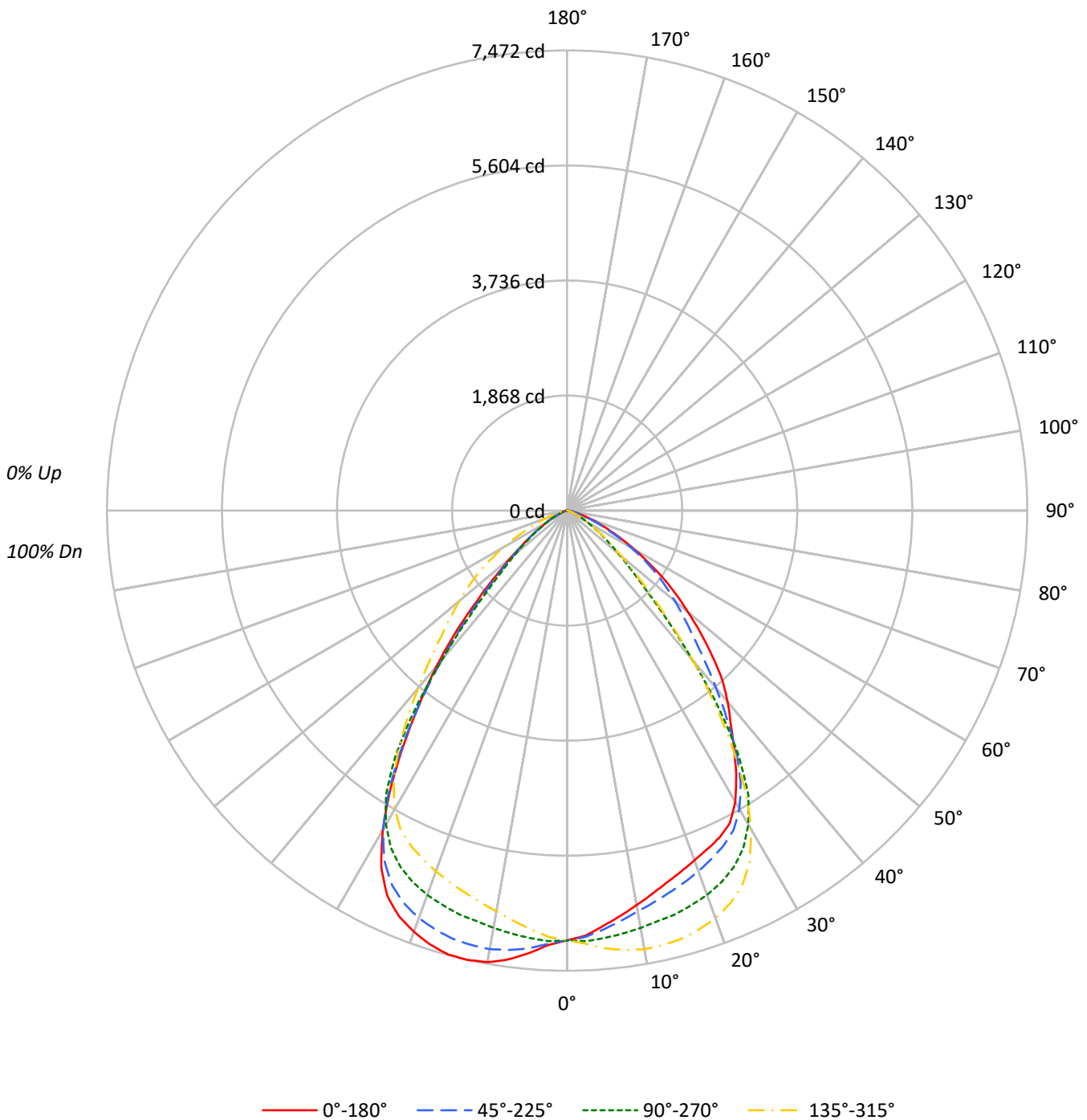
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	215176	215176	215176	215176
5°	209460	215679	223380	215679
10°	203666	215398	233109	215398
15°	199596	216675	238211	216675
20°	198237	217917	238823	217917
25°	199279	217479	234988	217479
30°	194352	209517	213284	209517
35°	177771	182770	173412	182770
40°	163214	127138	132770	127138
45°	145022	77563	89743	77563
50°	122753	51811	57539	51811
55°	101663	35354	37364	35354
60°	77541	23534	23744	23534
65°	54943	14666	13426	14666
70°	39625	9827	8917	9827
75°	25163	4885	4063	4885
80°	17563	3640	3019	3640
85°	15674	0	1203	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.2	5.7
10°-20°	1923.3	16.4
20°-30°	2912.3	24.8
30°-40°	2918.8	24.8
40°-50°	1832.9	15.6
50°-60°	976.7	8.3
60°-70°	401.7	3.4
70°-80°	106.1	0.9
80°-90°	18.0	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°	5499.8	46.8
0°-40°	8418.6	71.6
0°-60°	11228.3	95.5
0°-90°	11754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11754.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6978	6978	6978	6978	6978	
5°	6767	6968	7216	6968	6767	638
15°	6252	6787	7462	6787	6252	1768
25°	5857	6392	6906	6392	5857	2686
35°	4722	4855	4607	4855	4722	2959
45°	3326	1779	2058	1779	3326	2558
55°	1891	658	695	658	1891	1686
65°	753	201	184	201	753	781
75°	211	41	34	41	211	239
85°	44	0	3	0	44	49
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°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	6906.5	6899.6	6896.2	6903.1	6906.5	6920.1	6916.7	6923.4	6923.4	6926.9	6933.7
5°	6766.8	6763.3	6766.8	6766.8	6780.4	6794.0	6790.6	6800.8	6807.6	6824.7	6831.4
7.5°	6637.3	6637.3	6633.8	6647.4	6654.3	6674.8	6671.3	6688.4	6698.6	6715.6	6739.4
10°	6504.4	6504.4	6507.7	6518.0	6521.5	6552.1	6552.1	6575.9	6589.5	6606.6	6637.3
12.5°	6374.9	6374.9	6395.4	6388.5	6402.1	6426.0	6436.2	6460.1	6480.5	6514.6	6545.3
15°	6252.2	6252.2	6259.1	6276.1	6286.3	6317.0	6334.0	6361.3	6385.2	6419.2	6463.6
17.5°	6146.6	6143.2	6146.6	6167.1	6187.6	6214.8	6228.4	6262.5	6286.3	6330.6	6371.6
20°	6041.0	6047.9	6047.9	6064.8	6078.5	6112.5	6126.1	6163.7	6190.9	6231.7	6279.6
22.5°	5949.0	5945.6	5945.6	5969.5	5979.7	6010.3	6023.9	6058.0	6088.7	6122.8	6167.1
25°	5857.0	5850.1	5863.9	5867.2	5874.0	5908.1	5918.3	5942.1	5972.8	6003.6	6047.9
27.5°	5720.7	5714.0	5717.3	5730.9	5741.2	5768.4	5775.2	5799.1	5822.9	5850.1	5887.7
30°	5458.3	5451.6	5448.2	5472.0	5482.3	5502.6	5512.8	5553.8	5560.5	5591.2	5618.5
32.5°	5110.8	5107.4	5114.3	5134.6	5144.8	5172.2	5185.8	5209.6	5226.6	5243.7	5270.9
35°	4722.4	4715.6	4722.4	4742.9	4742.9	4766.8	4777.0	4787.1	4783.7	4787.1	4780.4
37.5°	4361.3	4357.8	4361.3	4371.4	4361.3	4371.4	4361.3	4340.8	4303.4	4262.4	4221.5
40°	4054.6	4058.0	4037.6	4051.2	4013.6	4006.9	3969.5	3918.3	3843.4	3761.6	3645.8
42.5°	3727.5	3717.3	3703.7	3710.4	3679.9	3655.9	3594.6	3529.9	3434.4	3298.3	3158.4
45°	3325.5	3322.1	3315.2	3311.9	3291.4	3267.5	3216.4	3141.5	3035.9	2896.2	2729.1
47.5°	2933.6	2923.4	2923.4	2926.8	2902.9	2899.5	2858.6	2793.9	2701.9	2565.6	2391.9
50°	2558.8	2555.4	2562.3	2575.9	2558.8	2552.0	2524.8	2480.5	2398.7	2282.9	2119.2
52.5°	2221.5	2218.1	2225.0	2241.9	2235.1	2241.9	2214.7	2180.7	2126.1	2013.6	1870.6
55°	1891.0	1891.0	1891.0	1911.4	1911.4	1911.4	1897.8	1877.4	1826.3	1744.5	1611.7
57.5°	1546.9	1550.3	1570.7	1574.1	1570.7	1577.6	1574.1	1553.6	1519.7	1461.8	1359.5
60°	1257.3	1257.3	1267.5	1277.8	1274.3	1277.8	1277.8	1267.5	1233.4	1185.8	1104.0
62.5°	994.9	1005.1	998.3	1005.1	1018.7	1005.1	998.3	991.5	967.7	937.0	868.8
65°	753.0	759.8	759.8	763.2	756.3	759.8	746.2	736.0	722.4	688.3	644.0
67.5°	572.5	572.5	572.5	572.5	569.0	565.6	562.2	552.0	528.2	514.6	466.7
70°	439.5	419.0	419.0	419.0	419.0	422.6	412.3	398.7	391.8	368.0	333.9
72.5°	293.0	299.8	293.0	293.0	286.2	289.6	276.0	269.1	262.4	248.8	228.3
75°	211.2	194.2	201.0	204.5	194.2	201.0	187.4	173.8	173.8	163.5	153.3
77.5°	136.3	133.0	136.3	139.7	136.3	133.0	126.1	119.2	119.2	115.8	105.6
80°	98.9	95.4	95.4	95.4	92.0	95.4	88.6	88.6	81.8	78.4	71.5
82.5°	64.8	64.8	61.3	64.8	61.3	64.8	54.6	54.6	54.6	51.0	44.3
85°	44.3	37.4	37.4	41.0	34.1	41.0	37.4	34.1	30.7	30.7	27.2
87.5°	20.5	23.8	20.5	23.8	20.5	20.5	23.8	20.5	20.5	13.6	13.6
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°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	6943.9	6947.3	6947.3	6961.0	6967.7	6971.1	6971.1	6998.5	6988.2	6995.1	7001.8
5°	6845.2	6865.5	6872.4	6872.4	6909.8	6923.4	6937.0	6967.7	6971.1	6991.6	7015.4
7.5°	6749.7	6773.5	6787.2	6817.8	6841.7	6865.5	6906.5	6926.9	6947.3	6974.6	7005.2
10°	6657.7	6685.0	6712.2	6736.1	6773.5	6804.2	6831.4	6879.1	6903.1	6940.5	6981.3
12.5°	6569.2	6606.6	6630.5	6671.3	6712.2	6739.4	6780.4	6824.7	6862.1	6899.6	6947.3
15°	6490.8	6535.1	6562.3	6606.6	6650.9	6688.4	6732.7	6787.2	6814.5	6858.8	6903.1
17.5°	6405.5	6453.3	6487.4	6528.2	6582.8	6623.6	6661.2	6715.6	6749.7	6797.3	6848.5
20°	6317.0	6364.7	6405.5	6446.5	6501.0	6541.8	6586.1	6640.7	6678.1	6725.8	6766.8
22.5°	6211.4	6255.7	6299.9	6347.6	6402.1	6436.2	6487.4	6535.1	6575.9	6620.2	6661.2
25°	6075.1	6129.6	6163.7	6207.9	6252.2	6289.7	6344.2	6391.9	6426.0	6466.9	6504.4
27.5°	5914.9	5955.9	5983.1	6020.5	6064.8	6098.9	6139.7	6187.6	6221.6	6259.1	6286.3
30°	5642.3	5679.9	5703.7	5730.9	5775.2	5806.0	5840.0	5884.2	5908.1	5935.4	5959.2
32.5°	5284.5	5315.2	5328.8	5349.3	5380.0	5410.6	5438.0	5475.4	5485.6	5502.6	5502.6
35°	4766.8	4773.5	4770.1	4777.0	4790.6	4807.6	4831.4	4855.2	4868.8	4868.8	4858.8
37.5°	4160.2	4119.4	4075.1	4041.0	4030.8	4023.9	4037.6	4047.7	4061.5	4068.2	4051.2
40°	3529.9	3437.9	3339.1	3250.4	3189.1	3161.9	3151.7	3158.4	3158.4	3182.3	3182.3
42.5°	2988.2	2845.0	2698.6	2565.6	2477.0	2409.0	2378.3	2378.3	2381.6	2398.7	2409.0
45°	2538.4	2357.8	2187.4	2041.0	1918.3	1829.6	1788.8	1778.6	1775.2	1781.9	1805.8
47.5°	2194.3	2006.9	1829.6	1649.1	1519.7	1431.0	1393.6	1379.9	1366.3	1379.9	1383.4
50°	1925.1	1730.9	1543.5	1362.9	1226.6	1148.2	1100.5	1080.0	1076.7	1076.7	1083.5
52.5°	1679.7	1499.2	1311.8	1127.8	984.7	909.8	865.4	855.2	841.6	855.2	855.2
55°	1448.0	1267.5	1083.5	909.8	790.4	712.2	671.2	657.6	650.7	661.0	661.0
57.5°	1196.0	1042.6	872.3	715.5	596.3	541.8	511.0	494.1	490.6	497.4	490.6
60°	981.3	851.8	705.3	562.2	470.2	412.3	388.5	381.6	374.7	381.6	381.6
62.5°	776.8	667.8	548.5	439.5	361.1	320.3	293.0	293.0	289.6	289.6	293.0
65°	575.8	490.6	405.4	313.4	252.2	221.4	201.0	201.0	197.6	201.0	197.6
67.5°	419.0	361.1	293.0	228.3	180.6	163.5	149.9	139.7	146.6	139.7	136.3
70°	306.7	258.9	211.2	173.8	139.7	122.7	112.5	109.0	102.2	102.2	102.2
72.5°	204.5	173.8	143.0	112.5	92.0	74.9	71.5	64.8	57.9	61.3	68.2
75°	136.3	115.8	102.2	81.8	61.3	61.3	41.0	41.0	34.1	41.0	30.7
77.5°	95.4	78.4	61.3	51.0	41.0	37.4	27.2	27.2	23.8	23.8	23.8
80°	68.2	57.9	44.3	37.4	27.2	27.2	23.8	20.5	17.0	17.0	20.5
82.5°	41.0	30.7	30.7	27.2	17.0	13.6	10.2	13.6	6.9	6.9	6.9
85°	23.8	20.5	17.0	10.2	6.9	6.9	3.4	0.0	3.4	3.4	0.0
87.5°	13.6	6.9	6.9	3.4	0.0	3.4	3.4	0.0	0.0	0.0	6.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	7018.9	7015.4	7022.3	7022.3	7042.8	7039.3	7049.5	7049.5	7042.8	7046.1	7059.7
5°	7042.8	7053.0	7073.3	7090.5	7121.0	7134.8	7151.7	7168.8	7172.2	7182.5	7192.7
7.5°	7042.8	7076.8	7100.7	7131.3	7172.2	7196.1	7233.5	7264.2	7277.8	7294.8	7315.3
10°	7029.0	7063.1	7107.4	7141.5	7192.7	7230.1	7267.6	7315.3	7335.7	7362.9	7390.3
12.5°	7001.8	7039.3	7086.9	7131.3	7189.2	7223.3	7270.9	7315.3	7346.0	7383.4	7414.1
15°	6961.0	7005.2	7049.5	7093.8	7155.1	7196.1	7240.4	7291.4	7322.1	7362.9	7390.3
17.5°	6896.2	6943.9	6984.8	7025.7	7083.6	7131.3	7172.2	7219.9	7250.6	7284.7	7322.1
20°	6817.8	6862.1	6906.5	6940.5	6998.5	7039.3	7083.6	7127.9	7151.7	7158.6	7216.5
22.5°	6719.1	6749.7	6783.7	6838.3	6872.4	6909.8	6950.8	6991.6	7015.4	7053.0	7073.3
25°	6555.4	6586.1	6623.6	6647.4	6688.4	6719.1	6759.9	6804.2	6817.8	6845.2	6865.5
27.5°	6327.2	6344.2	6361.3	6381.7	6405.5	6422.6	6446.5	6466.9	6480.5	6494.1	6507.7
30°	5966.0	5966.0	5966.0	5952.4	5962.6	5972.8	5976.2	5972.8	5972.8	5969.5	5969.5
32.5°	5489.0	5461.8	5431.1	5403.9	5393.6	5380.0	5373.2	5362.9	5346.0	5335.7	5339.1
35°	4845.0	4783.7	4746.3	4712.2	4685.0	4664.5	4654.3	4644.0	4640.7	4627.1	4613.3
37.5°	4041.0	3996.7	3969.5	3949.0	3925.1	3904.7	3908.0	3911.5	3921.6	3914.9	3918.3
40°	3189.1	3178.9	3189.1	3165.3	3158.4	3165.3	3182.3	3206.3	3219.9	3233.5	3257.3
42.5°	2425.9	2442.9	2466.9	2466.9	2477.0	2490.7	2511.1	2548.7	2569.0	2592.8	2620.2
45°	1826.3	1846.7	1877.4	1887.5	1894.4	1911.4	1935.4	1965.9	1979.5	2000.0	2023.9
47.5°	1407.2	1420.8	1437.8	1454.9	1471.9	1478.7	1502.6	1502.6	1519.7	1533.3	1540.0
50°	1097.1	1110.7	1124.3	1134.6	1141.4	1151.7	1158.4	1168.7	1172.0	1178.9	1182.3
52.5°	858.6	875.7	875.7	882.4	892.7	902.9	899.5	902.9	906.3	906.3	916.5
55°	671.2	671.2	681.4	681.4	688.3	684.8	688.3	688.3	688.3	688.3	691.7
57.5°	500.8	504.3	514.6	507.7	504.3	511.0	504.3	511.0	507.7	514.6	504.3
60°	385.0	385.0	388.5	388.5	391.8	391.8	391.8	388.5	388.5	385.0	385.0
62.5°	289.6	293.0	296.5	293.0	293.0	293.0	289.6	289.6	286.2	282.7	282.7
65°	194.2	190.9	197.6	190.9	194.2	194.2	190.9	194.2	184.0	187.4	184.0
67.5°	139.7	136.3	133.0	136.3	133.0	129.4	129.4	133.0	136.3	126.1	126.1
70°	92.0	95.4	92.0	95.4	98.9	98.9	95.4	92.0	95.4	88.6	92.0
72.5°	57.9	57.9	57.9	57.9	57.9	61.3	61.3	61.3	54.6	54.6	51.0
75°	27.2	37.4	30.7	27.2	37.4	37.4	34.1	34.1	30.7	30.7	30.7
77.5°	27.2	20.5	20.5	20.5	20.5	20.5	20.5	20.5	17.0	20.5	17.0
80°	13.6	13.6	13.6	10.2	13.6	13.6	17.0	13.6	13.6	10.2	17.0
82.5°	6.9	6.9	6.9	0.0	3.4	6.9	6.9	3.4	6.9	6.9	3.4
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: P248664

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	7056.4	7053.0	7056.4	7059.7	7056.4	7053.0	7056.4	7059.7	7046.1	7042.8	7049.5
5°	7206.3	7206.3	7213.0	7216.5	7213.0	7206.3	7206.3	7192.7	7182.5	7172.2	7168.8
7.5°	7335.7	7342.6	7349.3	7352.7	7349.3	7342.6	7335.7	7315.3	7294.8	7277.8	7264.2
10°	7414.1	7424.4	7438.0	7444.7	7438.0	7424.4	7414.1	7390.3	7362.9	7335.7	7315.3
12.5°	7448.2	7458.5	7475.4	7472.1	7475.4	7458.5	7448.2	7414.1	7383.4	7346.0	7315.3
15°	7424.4	7438.0	7454.9	7461.8	7454.9	7438.0	7424.4	7390.3	7362.9	7322.1	7291.4
17.5°	7349.3	7369.8	7380.1	7390.3	7380.1	7369.8	7349.3	7322.1	7284.7	7250.6	7219.9
20°	7247.1	7260.8	7274.5	7277.8	7274.5	7260.8	7247.1	7216.5	7158.6	7151.7	7127.9
22.5°	7100.7	7110.9	7141.5	7131.3	7141.5	7110.9	7100.7	7073.3	7053.0	7015.4	6991.6
25°	6889.3	6899.6	6903.1	6906.5	6903.1	6899.6	6889.3	6865.5	6845.2	6817.8	6804.2
27.5°	6524.8	6524.8	6531.6	6535.1	6531.6	6524.8	6524.8	6507.7	6494.1	6480.5	6466.9
30°	5972.8	5972.8	5972.8	5990.0	5972.8	5972.8	5972.8	5969.5	5969.5	5972.8	5972.8
32.5°	5335.7	5328.8	5322.1	5328.8	5322.1	5328.8	5335.7	5339.1	5335.7	5346.0	5362.9
35°	4613.3	4610.0	4620.2	4606.6	4620.2	4610.0	4613.3	4613.3	4627.1	4640.7	4644.0
37.5°	3921.6	3914.9	3928.5	3914.9	3928.5	3914.9	3921.6	3918.3	3914.9	3921.6	3911.5
40°	3264.2	3270.9	3270.9	3298.3	3270.9	3270.9	3264.2	3257.3	3233.5	3219.9	3206.3
42.5°	2633.8	2654.3	2647.4	2667.9	2647.4	2654.3	2633.8	2620.2	2592.8	2569.0	2548.7
45°	2037.5	2051.2	2051.2	2057.9	2051.2	2051.2	2037.5	2023.9	2000.0	1979.5	1965.9
47.5°	1563.9	1563.9	1563.9	1567.4	1563.9	1563.9	1563.9	1540.0	1533.3	1519.7	1502.6
50°	1189.1	1192.5	1196.0	1199.4	1196.0	1192.5	1189.1	1182.3	1178.9	1172.0	1168.7
52.5°	913.1	916.5	909.8	916.5	909.8	916.5	913.1	916.5	906.3	906.3	902.9
55°	691.7	688.3	691.7	695.0	691.7	688.3	691.7	691.7	688.3	688.3	688.3
57.5°	507.7	500.8	500.8	500.8	500.8	500.8	507.7	504.3	514.6	507.7	511.0
60°	378.2	381.6	381.6	385.0	381.6	381.6	378.2	385.0	385.0	388.5	388.5
62.5°	279.4	289.6	282.7	289.6	282.7	289.6	279.4	282.7	282.7	286.2	289.6
65°	180.6	180.6	180.6	184.0	180.6	180.6	180.6	184.0	187.4	184.0	194.2
67.5°	122.7	126.1	133.0	129.4	133.0	126.1	122.7	126.1	126.1	136.3	133.0
70°	98.9	88.6	88.6	98.9	88.6	88.6	98.9	92.0	88.6	95.4	92.0
72.5°	57.9	51.0	57.9	57.9	57.9	51.0	57.9	51.0	54.6	54.6	61.3
75°	30.7	27.2	23.8	34.1	23.8	27.2	30.7	30.7	30.7	30.7	34.1
77.5°	20.5	17.0	23.8	23.8	23.8	17.0	20.5	17.0	20.5	17.0	20.5
80°	10.2	13.6	10.2	17.0	10.2	13.6	10.2	17.0	10.2	13.6	13.6
82.5°	3.4	6.9	6.9	6.9	6.9	6.9	3.4	3.4	6.9	6.9	3.4
85°	0.0	6.9	3.4	3.4	3.4	6.9	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.0	0.0	3.4	0.0	0.0	3.4	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: P248664

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	7049.5	7039.3	7042.8	7022.3	7022.3	7015.4	7018.9	7001.8	6995.1	6988.2	6998.5
5°	7151.7	7134.8	7121.0	7090.5	7073.3	7053.0	7042.8	7015.4	6991.6	6971.1	6967.7
7.5°	7233.5	7196.1	7172.2	7131.3	7100.7	7076.8	7042.8	7005.2	6974.6	6947.3	6926.9
10°	7267.6	7230.1	7192.7	7141.5	7107.4	7063.1	7029.0	6981.3	6940.5	6903.1	6879.1
12.5°	7270.9	7223.3	7189.2	7131.3	7086.9	7039.3	7001.8	6947.3	6899.6	6862.1	6824.7
15°	7240.4	7196.1	7155.1	7093.8	7049.5	7005.2	6961.0	6903.1	6858.8	6814.5	6787.2
17.5°	7172.2	7131.3	7083.6	7025.7	6984.8	6943.9	6896.2	6848.5	6797.3	6749.7	6715.6
20°	7083.6	7039.3	6998.5	6940.5	6906.5	6862.1	6817.8	6766.8	6725.8	6678.1	6640.7
22.5°	6950.8	6909.8	6872.4	6838.3	6783.7	6749.7	6719.1	6661.2	6620.2	6575.9	6535.1
25°	6759.9	6719.1	6688.4	6647.4	6623.6	6586.1	6555.4	6504.4	6466.9	6426.0	6391.9
27.5°	6446.5	6422.6	6405.5	6381.7	6361.3	6344.2	6327.2	6286.3	6259.1	6221.6	6187.6
30°	5976.2	5972.8	5962.6	5952.4	5966.0	5966.0	5966.0	5959.2	5935.4	5908.1	5884.2
32.5°	5373.2	5380.0	5393.6	5403.9	5431.1	5461.8	5489.0	5502.6	5502.6	5485.6	5475.4
35°	4654.3	4664.5	4685.0	4712.2	4746.3	4783.7	4845.0	4858.8	4868.8	4868.8	4855.2
37.5°	3908.0	3904.7	3925.1	3949.0	3969.5	3996.7	4041.0	4051.2	4068.2	4061.5	4047.7
40°	3182.3	3165.3	3158.4	3165.3	3189.1	3178.9	3189.1	3182.3	3182.3	3158.4	3158.4
42.5°	2511.1	2490.7	2477.0	2466.9	2466.9	2442.9	2425.9	2409.0	2398.7	2381.6	2378.3
45°	1935.4	1911.4	1894.4	1887.5	1877.4	1846.7	1826.3	1805.8	1781.9	1775.2	1778.6
47.5°	1502.6	1478.7	1471.9	1454.9	1437.8	1420.8	1407.2	1383.4	1379.9	1366.3	1379.9
50°	1158.4	1151.7	1141.4	1134.6	1124.3	1110.7	1097.1	1083.5	1076.7	1076.7	1080.0
52.5°	899.5	902.9	892.7	882.4	875.7	875.7	858.6	855.2	855.2	841.6	855.2
55°	688.3	684.8	688.3	681.4	681.4	671.2	671.2	661.0	661.0	650.7	657.6
57.5°	504.3	511.0	504.3	507.7	514.6	504.3	500.8	490.6	497.4	490.6	494.1
60°	391.8	391.8	391.8	388.5	388.5	385.0	385.0	381.6	381.6	374.7	381.6
62.5°	289.6	293.0	293.0	293.0	296.5	293.0	289.6	293.0	289.6	289.6	293.0
65°	190.9	194.2	194.2	190.9	197.6	190.9	194.2	197.6	201.0	197.6	201.0
67.5°	129.4	129.4	133.0	136.3	133.0	136.3	139.7	136.3	139.7	146.6	139.7
70°	95.4	98.9	98.9	95.4	92.0	95.4	92.0	102.2	102.2	102.2	109.0
72.5°	61.3	61.3	57.9	57.9	57.9	57.9	57.9	68.2	61.3	57.9	64.8
75°	34.1	37.4	37.4	27.2	30.7	37.4	27.2	30.7	41.0	34.1	41.0
77.5°	20.5	20.5	20.5	20.5	20.5	20.5	27.2	23.8	23.8	23.8	27.2
80°	17.0	13.6	13.6	10.2	13.6	13.6	13.6	20.5	17.0	17.0	20.5
82.5°	6.9	6.9	3.4	0.0	6.9	6.9	6.9	6.9	6.9	6.9	13.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	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: P248664

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	6971.1	6971.1	6967.7	6961.0	6947.3	6947.3	6943.9	6933.7	6926.9	6923.4	6923.4
5°	6937.0	6923.4	6909.8	6872.4	6872.4	6865.5	6845.2	6831.4	6824.7	6807.6	6800.8
7.5°	6906.5	6865.5	6841.7	6817.8	6787.2	6773.5	6749.7	6739.4	6715.6	6698.6	6688.4
10°	6831.4	6804.2	6773.5	6736.1	6712.2	6685.0	6657.7	6637.3	6606.6	6589.5	6575.9
12.5°	6780.4	6739.4	6712.2	6671.3	6630.5	6606.6	6569.2	6545.3	6514.6	6480.5	6460.1
15°	6732.7	6688.4	6650.9	6606.6	6562.3	6535.1	6490.8	6463.6	6419.2	6385.2	6361.3
17.5°	6661.2	6623.6	6582.8	6528.2	6487.4	6453.3	6405.5	6371.6	6330.6	6286.3	6262.5
20°	6586.1	6541.8	6501.0	6446.5	6405.5	6364.7	6317.0	6279.6	6231.7	6190.9	6163.7
22.5°	6487.4	6436.2	6402.1	6347.6	6299.9	6255.7	6211.4	6167.1	6122.8	6088.7	6058.0
25°	6344.2	6289.7	6252.2	6207.9	6163.7	6129.6	6075.1	6047.9	6003.6	5972.8	5942.1
27.5°	6139.7	6098.9	6064.8	6020.5	5983.1	5955.9	5914.9	5887.7	5850.1	5822.9	5799.1
30°	5840.0	5806.0	5775.2	5730.9	5703.7	5679.9	5642.3	5618.5	5591.2	5560.5	5553.8
32.5°	5438.0	5410.6	5380.0	5349.3	5328.8	5315.2	5284.5	5270.9	5243.7	5226.6	5209.6
35°	4831.4	4807.6	4790.6	4777.0	4770.1	4773.5	4766.8	4780.4	4787.1	4783.7	4787.1
37.5°	4037.6	4023.9	4030.8	4041.0	4075.1	4119.4	4160.2	4221.5	4262.4	4303.4	4340.8
40°	3151.7	3161.9	3189.1	3250.4	3339.1	3437.9	3529.9	3645.8	3761.6	3843.4	3918.3
42.5°	2378.3	2409.0	2477.0	2565.6	2698.6	2845.0	2988.2	3158.4	3298.3	3434.4	3529.9
45°	1788.8	1829.6	1918.3	2041.0	2187.4	2357.8	2538.4	2729.1	2896.2	3035.9	3141.5
47.5°	1393.6	1431.0	1519.7	1649.1	1829.6	2006.9	2194.3	2391.9	2565.6	2701.9	2793.9
50°	1100.5	1148.2	1226.6	1362.9	1543.5	1730.9	1925.1	2119.2	2282.9	2398.7	2480.5
52.5°	865.4	909.8	984.7	1127.8	1311.8	1499.2	1679.7	1870.6	2013.6	2126.1	2180.7
55°	671.2	712.2	790.4	909.8	1083.5	1267.5	1448.0	1611.7	1744.5	1826.3	1877.4
57.5°	511.0	541.8	596.3	715.5	872.3	1042.6	1196.0	1359.5	1461.8	1519.7	1553.6
60°	388.5	412.3	470.2	562.2	705.3	851.8	981.3	1104.0	1185.8	1233.4	1267.5
62.5°	293.0	320.3	361.1	439.5	548.5	667.8	776.8	868.8	937.0	967.7	991.5
65°	201.0	221.4	252.2	313.4	405.4	490.6	575.8	644.0	688.3	722.4	736.0
67.5°	149.9	163.5	180.6	228.3	293.0	361.1	419.0	466.7	514.6	528.2	552.0
70°	112.5	122.7	139.7	173.8	211.2	258.9	306.7	333.9	368.0	391.8	398.7
72.5°	71.5	74.9	92.0	112.5	143.0	173.8	204.5	228.3	248.8	262.4	269.1
75°	41.0	61.3	61.3	81.8	102.2	115.8	136.3	153.3	163.5	173.8	173.8
77.5°	27.2	37.4	41.0	51.0	61.3	78.4	95.4	105.6	115.8	119.2	119.2
80°	23.8	27.2	27.2	37.4	44.3	57.9	68.2	71.5	78.4	81.8	88.6
82.5°	10.2	13.6	17.0	27.2	30.7	30.7	41.0	44.3	51.0	54.6	54.6
85°	3.4	6.9	6.9	10.2	17.0	20.5	23.8	27.2	30.7	30.7	34.1
87.5°	3.4	3.4	0.0	3.4	6.9	6.9	13.6	13.6	13.6	20.5	20.5
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: P248664

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0	6978.0
2.5°	6916.7	6920.1	6906.5	6903.1	6896.2	6899.6	6906.5
5°	6790.6	6794.0	6780.4	6766.8	6766.8	6763.3	6766.8
7.5°	6671.3	6674.8	6654.3	6647.4	6633.8	6637.3	6637.3
10°	6552.1	6552.1	6521.5	6518.0	6507.7	6504.4	6504.4
12.5°	6436.2	6426.0	6402.1	6388.5	6395.4	6374.9	6374.9
15°	6334.0	6317.0	6286.3	6276.1	6259.1	6252.2	6252.2
17.5°	6228.4	6214.8	6187.6	6167.1	6146.6	6143.2	6146.6
20°	6126.1	6112.5	6078.5	6064.8	6047.9	6047.9	6041.0
22.5°	6023.9	6010.3	5979.7	5969.5	5945.6	5945.6	5949.0
25°	5918.3	5908.1	5874.0	5867.2	5863.9	5850.1	5857.0
27.5°	5775.2	5768.4	5741.2	5730.9	5717.3	5714.0	5720.7
30°	5512.8	5502.6	5482.3	5472.0	5448.2	5451.6	5458.3
32.5°	5185.8	5172.2	5144.8	5134.6	5114.3	5107.4	5110.8
35°	4777.0	4766.8	4742.9	4742.9	4722.4	4715.6	4722.4
37.5°	4361.3	4371.4	4361.3	4371.4	4361.3	4357.8	4361.3
40°	3969.5	4006.9	4013.6	4051.2	4037.6	4058.0	4054.6
42.5°	3594.6	3655.9	3679.9	3710.4	3703.7	3717.3	3727.5
45°	3216.4	3267.5	3291.4	3311.9	3315.2	3322.1	3325.5
47.5°	2858.6	2899.5	2902.9	2926.8	2923.4	2923.4	2933.6
50°	2524.8	2552.0	2558.8	2575.9	2562.3	2555.4	2558.8
52.5°	2214.7	2241.9	2235.1	2241.9	2225.0	2218.1	2221.5
55°	1897.8	1911.4	1911.4	1911.4	1891.0	1891.0	1891.0
57.5°	1574.1	1577.6	1570.7	1574.1	1570.7	1550.3	1546.9
60°	1277.8	1277.8	1274.3	1277.8	1267.5	1257.3	1257.3
62.5°	998.3	1005.1	1018.7	1005.1	998.3	1005.1	994.9
65°	746.2	759.8	756.3	763.2	759.8	759.8	753.0
67.5°	562.2	565.6	569.0	572.5	572.5	572.5	572.5
70°	412.3	422.6	419.0	419.0	419.0	419.0	439.5
72.5°	276.0	289.6	286.2	293.0	293.0	299.8	293.0
75°	187.4	201.0	194.2	204.5	201.0	194.2	211.2
77.5°	126.1	133.0	136.3	139.7	136.3	133.0	136.3
80°	88.6	95.4	92.0	95.4	95.4	95.4	98.9
82.5°	54.6	64.8	61.3	64.8	61.3	64.8	64.8
85°	37.4	41.0	34.1	41.0	37.4	37.4	44.3
87.5°	23.8	20.5	20.5	23.8	20.5	23.8	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)