

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: P248674

Luminaire Tested: **LD8B150D010 ER8B150835 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248674
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: LD8B150D010 ER8B150835 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16110.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

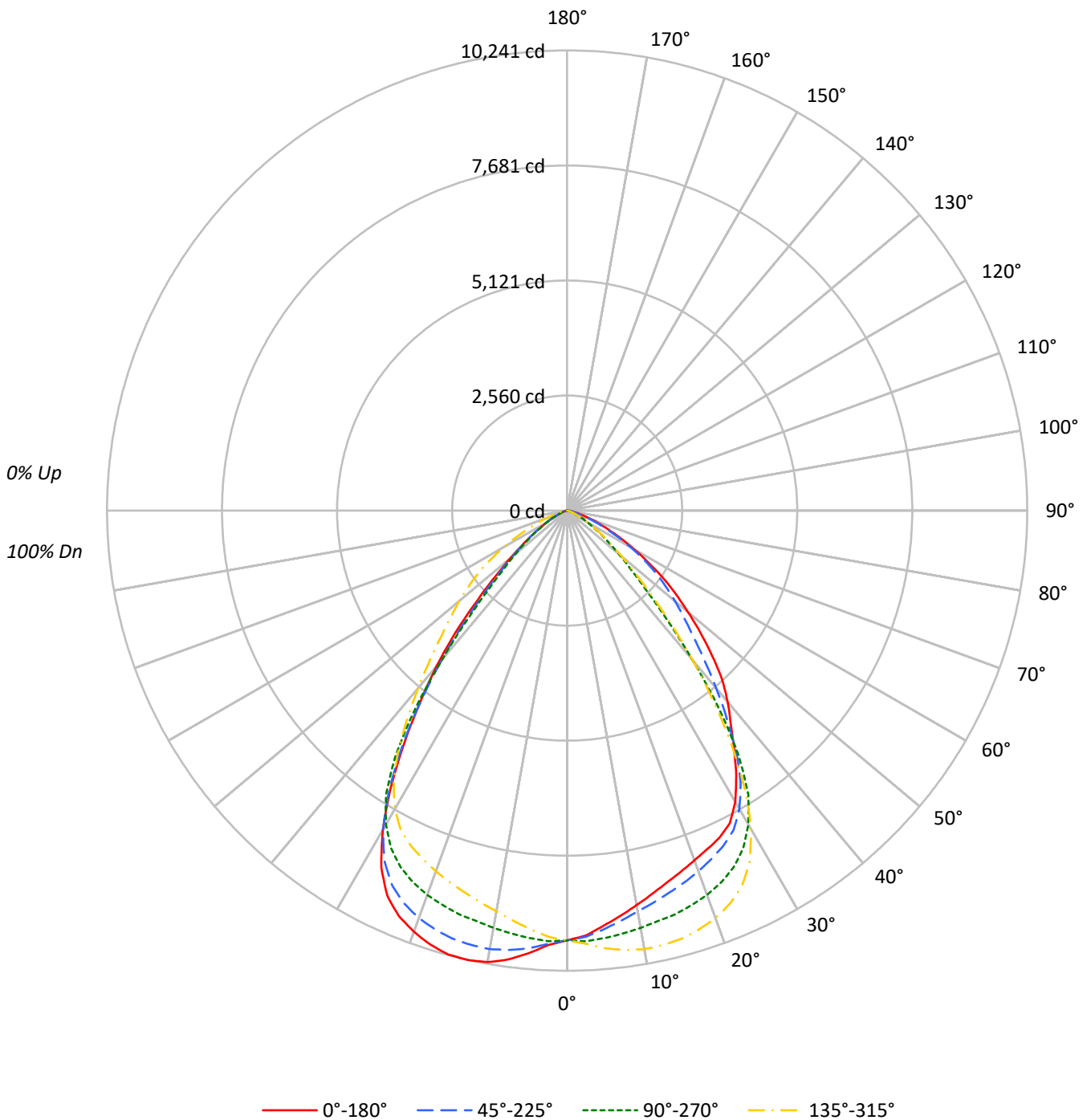
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	294919	294919	294919	294919
5°	287084	295612	306167	295612
10°	279143	295225	319498	295225
15°	273567	296977	326491	296977
20°	271704	298675	327333	298675
25°	273132	298075	322072	298075
30°	266377	287165	292324	287165
35°	243656	250507	237678	250507
40°	223699	174255	181972	174255
45°	198766	106306	123004	106306
50°	168241	71014	78858	71014
55°	139344	48455	51213	48455
60°	106274	32255	32538	32255
65°	75300	20095	18402	20095
70°	54312	13470	12217	13470
75°	34492	6684	5564	6684
80°	24062	4990	4138	4990
85°	21476	0	1628	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.3	5.7
10°-20°	2636.1	16.4
20°-30°	3991.6	24.8
30°-40°	4000.6	24.8
40°-50°	2512.2	15.6
50°-60°	1338.7	8.3
60°-70°	550.5	3.4
70°-80°	145.4	0.9
80°-90°	24.6	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°	7538.0	46.8
0°-40°	11538.6	71.6
0°-60°	15389.5	95.5
0°-90°	16110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16110.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9564	9564	9564	9564	9564	
5°	9274	9550	9891	9550	9274	875
15°	8569	9303	10227	9303	8569	2424
25°	8028	8761	9466	8761	8028	3682
35°	6473	6655	6314	6655	6473	4055
45°	4558	2438	2821	2438	4558	3505
55°	2592	901	953	901	2592	2311
65°	1032	275	252	275	1032	1071
75°	290	56	47	56	290	328
85°	61	0	5	0	61	67
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°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9466.0	9456.5	9451.9	9461.4	9466.0	9484.6	9480.0	9489.2	9489.2	9494.0	9503.3
5°	9274.5	9269.7	9274.5	9274.5	9293.2	9311.8	9307.2	9321.2	9330.5	9353.9	9363.1
7.5°	9097.1	9097.1	9092.3	9110.9	9120.4	9148.4	9143.6	9167.1	9181.1	9204.4	9237.0
10°	8914.9	8914.9	8919.5	8933.5	8938.3	8980.2	8980.2	9012.9	9031.6	9055.0	9097.1
12.5°	8737.5	8737.5	8765.5	8756.1	8774.7	8807.4	8821.5	8854.1	8882.2	8928.9	8971.0
15°	8569.3	8569.3	8578.7	8601.9	8616.0	8658.1	8681.3	8718.8	8751.5	8798.2	8858.9
17.5°	8424.5	8419.9	8424.5	8452.6	8480.7	8517.9	8536.6	8583.3	8616.0	8676.7	8732.8
20°	8279.8	8289.2	8289.2	8312.5	8331.1	8377.8	8396.5	8448.0	8485.3	8541.2	8606.8
22.5°	8153.7	8149.1	8149.1	8181.8	8195.8	8237.7	8256.3	8303.0	8345.1	8391.9	8452.6
25°	8027.6	8018.2	8037.0	8041.6	8050.9	8097.6	8111.6	8144.3	8186.4	8228.5	8289.2
27.5°	7840.8	7831.5	7836.1	7854.8	7868.8	7906.1	7915.5	7948.2	7980.9	8018.2	8069.7
30°	7481.1	7471.9	7467.3	7500.0	7514.0	7541.9	7555.9	7612.0	7621.2	7663.3	7700.6
32.5°	7004.8	7000.2	7009.6	7037.5	7051.5	7089.0	7107.6	7140.3	7163.6	7187.0	7224.3
35°	6472.6	6463.1	6472.6	6500.6	6500.6	6533.3	6547.3	6561.2	6556.6	6561.2	6551.9
37.5°	5977.6	5972.8	5977.6	5991.4	5977.6	5991.4	5977.6	5949.5	5898.2	5842.1	5786.0
40°	5557.2	5561.8	5534.0	5552.6	5501.1	5491.9	5440.5	5370.4	5267.7	5155.7	4996.9
42.5°	5109.0	5094.9	5076.3	5085.5	5043.6	5010.7	4926.7	4838.1	4707.2	4520.6	4328.9
45°	4557.9	4553.3	4543.8	4539.2	4511.2	4478.5	4408.3	4305.7	4160.9	3969.5	3740.6
47.5°	4020.8	4006.8	4006.8	4011.4	3978.7	3974.1	3918.0	3829.4	3703.3	3516.4	3278.3
50°	3507.0	3502.4	3511.8	3530.5	3507.0	3497.8	3460.5	3399.8	3287.7	3128.9	2904.6
52.5°	3044.7	3040.1	3049.5	3072.8	3063.4	3072.8	3035.5	2988.8	2914.0	2759.9	2563.8
55°	2591.9	2591.9	2591.9	2619.7	2619.7	2619.7	2601.1	2573.2	2503.1	2391.0	2209.0
57.5°	2120.2	2124.8	2152.8	2157.5	2152.8	2162.3	2157.5	2129.4	2082.9	2003.5	1863.4
60°	1723.2	1723.2	1737.3	1751.3	1746.5	1751.3	1751.3	1737.3	1690.6	1625.2	1513.1
62.5°	1363.6	1377.6	1368.2	1377.6	1396.3	1377.6	1368.2	1359.0	1326.3	1284.2	1190.8
65°	1032.0	1041.4	1041.4	1046.1	1036.6	1041.4	1022.8	1008.8	990.1	943.4	882.7
67.5°	784.6	784.6	784.6	784.6	779.8	775.2	770.6	756.6	723.9	705.2	639.7
70°	602.4	574.3	574.3	574.3	574.3	579.2	565.1	546.5	537.1	504.4	457.7
72.5°	401.5	411.0	401.5	401.5	392.3	396.9	378.3	368.9	359.6	341.0	312.9
75°	289.5	266.2	275.4	280.3	266.2	275.4	256.8	238.2	238.2	224.1	210.1
77.5°	186.8	182.2	186.8	191.4	186.8	182.2	172.8	163.4	163.4	158.8	144.7
80°	135.5	130.7	130.7	130.7	126.1	130.7	121.5	121.5	112.1	107.4	98.0
82.5°	88.8	88.8	84.0	88.8	84.0	88.8	74.8	74.8	74.8	70.0	60.7
85°	60.7	51.3	51.3	56.1	46.7	56.1	51.3	46.7	42.1	42.1	37.3
87.5°	28.1	32.7	28.1	32.7	28.1	28.1	32.7	28.1	28.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9517.3	9521.9	9521.9	9540.7	9550.0	9554.6	9554.6	9592.1	9578.0	9587.4	9596.7
5°	9382.0	9409.8	9419.3	9419.3	9470.6	9489.2	9507.9	9550.0	9554.6	9582.6	9615.3
7.5°	9251.1	9283.7	9302.6	9344.5	9377.2	9409.8	9466.0	9494.0	9521.9	9559.4	9601.3
10°	9125.0	9162.5	9199.7	9232.4	9283.7	9325.8	9363.1	9428.5	9461.4	9512.7	9568.6
12.5°	9003.7	9055.0	9087.7	9143.6	9199.7	9237.0	9293.2	9353.9	9405.2	9456.5	9521.9
15°	8896.2	8957.0	8994.3	9055.0	9115.7	9167.1	9227.8	9302.6	9339.9	9400.6	9461.4
17.5°	8779.4	8844.9	8891.6	8947.6	9022.3	9078.3	9129.8	9204.4	9251.1	9316.4	9386.6
20°	8658.1	8723.4	8779.4	8835.5	8910.3	8966.2	9026.9	9101.7	9153.0	9218.4	9274.5
22.5°	8513.3	8574.1	8634.6	8700.0	8774.7	8821.5	8891.6	8957.0	9012.9	9073.6	9129.8
25°	8326.5	8401.3	8448.0	8508.5	8569.3	8620.6	8695.4	8760.7	8807.4	8863.6	8914.9
27.5°	8107.0	8163.1	8200.4	8251.7	8312.5	8359.2	8415.1	8480.7	8527.4	8578.7	8616.0
30°	7733.3	7784.8	7817.5	7854.8	7915.5	7957.6	8004.3	8064.9	8097.6	8135.0	8167.7
32.5°	7243.0	7285.1	7303.7	7331.8	7373.9	7415.8	7453.3	7504.6	7518.6	7541.9	7541.9
35°	6533.3	6542.5	6537.9	6547.3	6566.0	6589.2	6621.9	6654.6	6673.2	6673.2	6659.4
37.5°	5702.0	5646.0	5585.3	5538.6	5524.5	5515.1	5534.0	5547.8	5566.6	5575.9	5552.6
40°	4838.1	4712.0	4576.5	4455.0	4371.0	4333.7	4319.7	4328.9	4328.9	4361.6	4361.6
42.5°	4095.6	3899.3	3698.7	3516.4	3395.0	3301.7	3259.6	3259.6	3264.2	3287.7	3301.7
45°	3479.1	3231.6	2998.0	2797.3	2629.2	2507.7	2451.7	2437.7	2433.1	2442.3	2475.0
47.5°	3007.4	2750.6	2507.7	2260.3	2082.9	1961.4	1910.1	1891.2	1872.6	1891.2	1896.0
50°	2638.6	2372.4	2115.6	1868.0	1681.1	1573.7	1508.3	1480.3	1475.7	1475.7	1485.1
52.5°	2302.2	2054.8	1798.0	1545.8	1349.6	1246.9	1186.2	1172.1	1153.5	1172.1	1172.1
55°	1984.7	1737.3	1485.1	1246.9	1083.3	976.1	920.0	901.3	891.9	905.9	905.9
57.5°	1639.2	1428.9	1195.6	980.7	817.3	742.5	700.4	677.2	672.4	681.8	672.4
60°	1344.9	1167.5	966.7	770.6	644.5	565.1	532.4	523.0	513.6	523.0	523.0
62.5°	1064.7	915.3	751.8	602.4	495.0	439.0	401.5	401.5	396.9	396.9	401.5
65°	789.2	672.4	555.7	429.6	345.6	303.5	275.4	275.4	270.8	275.4	270.8
67.5°	574.3	495.0	401.5	312.9	247.6	224.1	205.5	191.4	200.9	191.4	186.8
70°	420.4	354.8	289.5	238.2	191.4	168.2	154.2	149.4	140.1	140.1	140.1
72.5°	280.3	238.2	196.1	154.2	126.1	102.6	98.0	88.8	79.4	84.0	93.4
75°	186.8	158.8	140.1	112.1	84.0	84.0	56.1	56.1	46.7	56.1	42.1
77.5°	130.7	107.4	84.0	70.0	56.1	51.3	37.3	37.3	32.7	32.7	32.7
80°	93.4	79.4	60.7	51.3	37.3	37.3	32.7	28.1	23.3	23.3	28.1
82.5°	56.1	42.1	42.1	37.3	23.3	18.6	14.0	18.6	9.4	9.4	9.4
85°	32.7	28.1	23.3	14.0	9.4	9.4	4.6	0.0	4.6	4.6	0.0
87.5°	18.6	9.4	9.4	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9620.1	9615.3	9624.7	9624.7	9652.8	9648.0	9662.0	9662.0	9652.8	9657.4	9676.1
5°	9652.8	9666.8	9694.7	9718.2	9760.1	9778.9	9802.2	9825.6	9830.2	9844.3	9858.3
7.5°	9652.8	9699.5	9732.2	9774.1	9830.2	9862.9	9914.2	9956.3	9975.0	9998.2	10026.3
10°	9634.0	9680.7	9741.4	9788.1	9858.3	9909.6	9960.9	10026.3	10054.3	10091.6	10129.1
12.5°	9596.7	9648.0	9713.4	9774.1	9853.5	9900.2	9965.5	10026.3	10068.4	10119.7	10161.8
15°	9540.7	9601.3	9662.0	9722.8	9806.8	9862.9	9923.6	9993.6	10035.7	10091.6	10129.1
17.5°	9451.9	9517.3	9573.4	9629.4	9708.7	9774.1	9830.2	9895.6	9937.7	9984.4	10035.7
20°	9344.5	9405.2	9466.0	9512.7	9592.1	9648.0	9708.7	9769.5	9802.2	9811.6	9891.0
22.5°	9209.2	9251.1	9297.8	9372.5	9419.3	9470.6	9526.7	9582.6	9615.3	9666.8	9694.7
25°	8984.8	9026.9	9078.3	9110.9	9167.1	9209.2	9265.1	9325.8	9344.5	9382.0	9409.8
27.5°	8672.1	8695.4	8718.8	8746.7	8779.4	8802.8	8835.5	8863.6	8882.2	8900.8	8919.5
30°	8177.0	8177.0	8177.0	8158.3	8172.3	8186.4	8191.0	8186.4	8186.4	8181.8	8181.8
32.5°	7523.2	7485.9	7443.8	7406.5	7392.5	7373.9	7364.4	7350.4	7327.2	7313.1	7317.7
35°	6640.6	6556.6	6505.2	6458.5	6421.2	6393.2	6379.1	6365.1	6360.5	6341.8	6323.0
37.5°	5538.6	5477.8	5440.5	5412.5	5379.8	5351.7	5356.3	5361.2	5375.0	5365.8	5370.4
40°	4371.0	4357.0	4371.0	4338.4	4328.9	4338.4	4361.6	4394.5	4413.1	4431.8	4464.5
42.5°	3325.0	3348.2	3381.1	3381.1	3395.0	3413.8	3441.7	3493.2	3521.0	3553.7	3591.2
45°	2503.1	2531.1	2573.2	2587.1	2596.5	2619.7	2652.6	2694.5	2713.2	2741.2	2773.9
47.5°	1928.7	1947.4	1970.6	1994.1	2017.3	2026.7	2059.4	2059.4	2082.9	2101.5	2110.7
50°	1503.7	1522.4	1541.0	1555.0	1564.5	1578.5	1587.7	1601.8	1606.4	1615.8	1620.4
52.5°	1176.8	1200.2	1200.2	1209.4	1223.5	1237.5	1232.9	1237.5	1242.1	1242.1	1256.1
55°	920.0	920.0	934.0	934.0	943.4	938.6	943.4	943.4	943.4	943.4	948.0
57.5°	686.4	691.2	705.2	695.8	691.2	700.4	691.2	700.4	695.8	705.2	691.2
60°	527.6	527.6	532.4	532.4	537.1	537.1	537.1	532.4	532.4	527.6	527.6
62.5°	396.9	401.5	406.3	401.5	401.5	401.5	396.9	396.9	392.3	387.5	387.5
65°	266.2	261.6	270.8	261.6	266.2	266.2	261.6	266.2	252.2	256.8	252.2
67.5°	191.4	186.8	182.2	186.8	182.2	177.4	177.4	182.2	186.8	172.8	172.8
70°	126.1	130.7	126.1	130.7	135.5	135.5	130.7	126.1	130.7	121.5	126.1
72.5°	79.4	79.4	79.4	79.4	79.4	84.0	84.0	84.0	74.8	74.8	70.0
75°	37.3	51.3	42.1	37.3	51.3	51.3	46.7	46.7	42.1	42.1	42.1
77.5°	37.3	28.1	28.1	28.1	28.1	28.1	28.1	28.1	23.3	28.1	23.3
80°	18.6	18.6	18.6	14.0	18.6	18.6	23.3	18.6	18.6	14.0	23.3
82.5°	9.4	9.4	9.4	0.0	4.6	9.4	9.4	4.6	9.4	9.4	4.6
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: P248674

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9671.4	9666.8	9671.4	9676.1	9671.4	9666.8	9671.4	9676.1	9657.4	9652.8	9662.0
5°	9876.9	9876.9	9886.2	9891.0	9886.2	9876.9	9876.9	9858.3	9844.3	9830.2	9825.6
7.5°	10054.3	10063.8	10073.0	10077.6	10073.0	10063.8	10054.3	10026.3	9998.2	9975.0	9956.3
10°	10161.8	10175.8	10194.5	10203.7	10194.5	10175.8	10161.8	10129.1	10091.6	10054.3	10026.3
12.5°	10208.5	10222.5	10245.8	10241.2	10245.8	10222.5	10208.5	10161.8	10119.7	10068.4	10026.3
15°	10175.8	10194.5	10217.7	10227.1	10217.7	10194.5	10175.8	10129.1	10091.6	10035.7	9993.6
17.5°	10073.0	10101.1	10115.1	10129.1	10115.1	10101.1	10073.0	10035.7	9984.4	9937.7	9895.6
20°	9932.9	9951.7	9970.3	9975.0	9970.3	9951.7	9932.9	9891.0	9811.6	9802.2	9769.5
22.5°	9732.2	9746.2	9788.1	9774.1	9788.1	9746.2	9732.2	9694.7	9666.8	9615.3	9582.6
25°	9442.5	9456.5	9461.4	9466.0	9461.4	9456.5	9442.5	9409.8	9382.0	9344.5	9325.8
27.5°	8942.9	8942.9	8952.2	8957.0	8952.2	8942.9	8942.9	8919.5	8900.8	8882.2	8863.6
30°	8186.4	8186.4	8186.4	8209.8	8186.4	8186.4	8186.4	8181.8	8181.8	8186.4	8186.4
32.5°	7313.1	7303.7	7294.5	7303.7	7294.5	7303.7	7313.1	7317.7	7313.1	7327.2	7350.4
35°	6323.0	6318.4	6332.4	6313.8	6332.4	6318.4	6323.0	6323.0	6341.8	6360.5	6365.1
37.5°	5375.0	5365.8	5384.4	5365.8	5384.4	5365.8	5375.0	5370.4	5365.8	5375.0	5361.2
40°	4473.9	4483.1	4483.1	4520.6	4483.1	4483.1	4473.9	4464.5	4431.8	4413.1	4394.5
42.5°	3609.9	3637.9	3628.5	3656.6	3628.5	3637.9	3609.9	3591.2	3553.7	3521.0	3493.2
45°	2792.5	2811.4	2811.4	2820.6	2811.4	2811.4	2792.5	2773.9	2741.2	2713.2	2694.5
47.5°	2143.4	2143.4	2143.4	2148.2	2143.4	2143.4	2143.4	2110.7	2101.5	2082.9	2059.4
50°	1629.8	1634.4	1639.2	1643.8	1639.2	1634.4	1629.8	1620.4	1615.8	1606.4	1601.8
52.5°	1251.5	1256.1	1246.9	1256.1	1246.9	1256.1	1251.5	1256.1	1242.1	1242.1	1237.5
55°	948.0	943.4	948.0	952.6	948.0	943.4	948.0	948.0	943.4	943.4	943.4
57.5°	695.8	686.4	686.4	686.4	686.4	686.4	695.8	691.2	705.2	695.8	700.4
60°	518.4	523.0	523.0	527.6	523.0	523.0	518.4	527.6	527.6	532.4	532.4
62.5°	382.9	396.9	387.5	396.9	387.5	396.9	382.9	387.5	387.5	392.3	396.9
65°	247.6	247.6	247.6	252.2	247.6	247.6	247.6	252.2	256.8	252.2	266.2
67.5°	168.2	172.8	182.2	177.4	182.2	172.8	168.2	172.8	172.8	186.8	182.2
70°	135.5	121.5	121.5	135.5	121.5	121.5	135.5	126.1	121.5	130.7	126.1
72.5°	79.4	70.0	79.4	79.4	79.4	70.0	79.4	70.0	74.8	74.8	84.0
75°	42.1	37.3	32.7	46.7	32.7	37.3	42.1	42.1	42.1	42.1	46.7
77.5°	28.1	23.3	32.7	32.7	32.7	23.3	28.1	23.3	28.1	23.3	28.1
80°	14.0	18.6	14.0	23.3	14.0	18.6	14.0	23.3	14.0	18.6	18.6
82.5°	4.6	9.4	9.4	9.4	9.4	9.4	4.6	4.6	9.4	9.4	4.6
85°	0.0	9.4	4.6	4.6	4.6	9.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248674

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9662.0	9648.0	9652.8	9624.7	9624.7	9615.3	9620.1	9596.7	9587.4	9578.0	9592.1
5°	9802.2	9778.9	9760.1	9718.2	9694.7	9666.8	9652.8	9615.3	9582.6	9554.6	9550.0
7.5°	9914.2	9862.9	9830.2	9774.1	9732.2	9699.5	9652.8	9601.3	9559.4	9521.9	9494.0
10°	9960.9	9909.6	9858.3	9788.1	9741.4	9680.7	9634.0	9568.6	9512.7	9461.4	9428.5
12.5°	9965.5	9900.2	9853.5	9774.1	9713.4	9648.0	9596.7	9521.9	9456.5	9405.2	9353.9
15°	9923.6	9862.9	9806.8	9722.8	9662.0	9601.3	9540.7	9461.4	9400.6	9339.9	9302.6
17.5°	9830.2	9774.1	9708.7	9629.4	9573.4	9517.3	9451.9	9386.6	9316.4	9251.1	9204.4
20°	9708.7	9648.0	9592.1	9512.7	9466.0	9405.2	9344.5	9274.5	9218.4	9153.0	9101.7
22.5°	9526.7	9470.6	9419.3	9372.5	9297.8	9251.1	9209.2	9129.8	9073.6	9012.9	8957.0
25°	9265.1	9209.2	9167.1	9110.9	9078.3	9026.9	8984.8	8914.9	8863.6	8807.4	8760.7
27.5°	8835.5	8802.8	8779.4	8746.7	8718.8	8695.4	8672.1	8616.0	8578.7	8527.4	8480.7
30°	8191.0	8186.4	8172.3	8158.3	8177.0	8177.0	8177.0	8167.7	8135.0	8097.6	8064.9
32.5°	7364.4	7373.9	7392.5	7406.5	7443.8	7485.9	7523.2	7541.9	7541.9	7518.6	7504.6
35°	6379.1	6393.2	6421.2	6458.5	6505.2	6556.6	6640.6	6659.4	6673.2	6673.2	6654.6
37.5°	5356.3	5351.7	5379.8	5412.5	5440.5	5477.8	5538.6	5552.6	5575.9	5566.6	5547.8
40°	4361.6	4338.4	4328.9	4338.4	4371.0	4357.0	4371.0	4361.6	4361.6	4328.9	4328.9
42.5°	3441.7	3413.8	3395.0	3381.1	3381.1	3348.2	3325.0	3301.7	3287.7	3264.2	3259.6
45°	2652.6	2619.7	2596.5	2587.1	2573.2	2531.1	2503.1	2475.0	2442.3	2433.1	2437.7
47.5°	2059.4	2026.7	2017.3	1994.1	1970.6	1947.4	1928.7	1896.0	1891.2	1872.6	1891.2
50°	1587.7	1578.5	1564.5	1555.0	1541.0	1522.4	1503.7	1485.1	1475.7	1475.7	1480.3
52.5°	1232.9	1237.5	1223.5	1209.4	1200.2	1200.2	1176.8	1172.1	1172.1	1153.5	1172.1
55°	943.4	938.6	943.4	934.0	934.0	920.0	920.0	905.9	905.9	891.9	901.3
57.5°	691.2	700.4	691.2	695.8	705.2	691.2	686.4	672.4	681.8	672.4	677.2
60°	537.1	537.1	537.1	532.4	532.4	527.6	527.6	523.0	523.0	513.6	523.0
62.5°	396.9	401.5	401.5	401.5	406.3	401.5	396.9	401.5	396.9	396.9	401.5
65°	261.6	266.2	266.2	261.6	270.8	261.6	266.2	270.8	275.4	270.8	275.4
67.5°	177.4	177.4	182.2	186.8	182.2	186.8	191.4	186.8	191.4	200.9	191.4
70°	130.7	135.5	135.5	130.7	126.1	130.7	126.1	140.1	140.1	140.1	149.4
72.5°	84.0	84.0	79.4	79.4	79.4	79.4	79.4	93.4	84.0	79.4	88.8
75°	46.7	51.3	51.3	37.3	42.1	51.3	37.3	42.1	56.1	46.7	56.1
77.5°	28.1	28.1	28.1	28.1	28.1	28.1	37.3	32.7	32.7	32.7	37.3
80°	23.3	18.6	18.6	14.0	18.6	18.6	18.6	28.1	23.3	23.3	28.1
82.5°	9.4	9.4	4.6	0.0	9.4	9.4	9.4	9.4	9.4	9.4	18.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	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: P248674

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9554.6	9554.6	9550.0	9540.7	9521.9	9521.9	9517.3	9503.3	9494.0	9489.2	9489.2
5°	9507.9	9489.2	9470.6	9419.3	9419.3	9409.8	9382.0	9363.1	9353.9	9330.5	9321.2
7.5°	9466.0	9409.8	9377.2	9344.5	9302.6	9283.7	9251.1	9237.0	9204.4	9181.1	9167.1
10°	9363.1	9325.8	9283.7	9232.4	9199.7	9162.5	9125.0	9097.1	9055.0	9031.6	9012.9
12.5°	9293.2	9237.0	9199.7	9143.6	9087.7	9055.0	9003.7	8971.0	8928.9	8882.2	8854.1
15°	9227.8	9167.1	9115.7	9055.0	8994.3	8957.0	8896.2	8858.9	8798.2	8751.5	8718.8
17.5°	9129.8	9078.3	9022.3	8947.6	8891.6	8844.9	8779.4	8732.8	8676.7	8616.0	8583.3
20°	9026.9	8966.2	8910.3	8835.5	8779.4	8723.4	8658.1	8606.8	8541.2	8485.3	8448.0
22.5°	8891.6	8821.5	8774.7	8700.0	8634.6	8574.1	8513.3	8452.6	8391.9	8345.1	8303.0
25°	8695.4	8620.6	8569.3	8508.5	8448.0	8401.3	8326.5	8289.2	8228.5	8186.4	8144.3
27.5°	8415.1	8359.2	8312.5	8251.7	8200.4	8163.1	8107.0	8069.7	8018.2	7980.9	7948.2
30°	8004.3	7957.6	7915.5	7854.8	7817.5	7784.8	7733.3	7700.6	7663.3	7621.2	7612.0
32.5°	7453.3	7415.8	7373.9	7331.8	7303.7	7285.1	7243.0	7224.3	7187.0	7163.6	7140.3
35°	6621.9	6589.2	6566.0	6547.3	6537.9	6542.5	6533.3	6551.9	6561.2	6556.6	6561.2
37.5°	5534.0	5515.1	5524.5	5538.6	5585.3	5646.0	5702.0	5786.0	5842.1	5898.2	5949.5
40°	4319.7	4333.7	4371.0	4455.0	4576.5	4712.0	4838.1	4996.9	5155.7	5267.7	5370.4
42.5°	3259.6	3301.7	3395.0	3516.4	3698.7	3899.3	4095.6	4328.9	4520.6	4707.2	4838.1
45°	2451.7	2507.7	2629.2	2797.3	2998.0	3231.6	3479.1	3740.6	3969.5	4160.9	4305.7
47.5°	1910.1	1961.4	2082.9	2260.3	2507.7	2750.6	3007.4	3278.3	3516.4	3703.3	3829.4
50°	1508.3	1573.7	1681.1	1868.0	2115.6	2372.4	2638.6	2904.6	3128.9	3287.7	3399.8
52.5°	1186.2	1246.9	1349.6	1545.8	1798.0	2054.8	2302.2	2563.8	2759.9	2914.0	2988.8
55°	920.0	976.1	1083.3	1246.9	1485.1	1737.3	1984.7	2209.0	2391.0	2503.1	2573.2
57.5°	700.4	742.5	817.3	980.7	1195.6	1428.9	1639.2	1863.4	2003.5	2082.9	2129.4
60°	532.4	565.1	644.5	770.6	966.7	1167.5	1344.9	1513.1	1625.2	1690.6	1737.3
62.5°	401.5	439.0	495.0	602.4	751.8	915.3	1064.7	1190.8	1284.2	1326.3	1359.0
65°	275.4	303.5	345.6	429.6	555.7	672.4	789.2	882.7	943.4	990.1	1008.8
67.5°	205.5	224.1	247.6	312.9	401.5	495.0	574.3	639.7	705.2	723.9	756.6
70°	154.2	168.2	191.4	238.2	289.5	354.8	420.4	457.7	504.4	537.1	546.5
72.5°	98.0	102.6	126.1	154.2	196.1	238.2	280.3	312.9	341.0	359.6	368.9
75°	56.1	84.0	84.0	112.1	140.1	158.8	186.8	210.1	224.1	238.2	238.2
77.5°	37.3	51.3	56.1	70.0	84.0	107.4	130.7	144.7	158.8	163.4	163.4
80°	32.7	37.3	37.3	51.3	60.7	79.4	93.4	98.0	107.4	112.1	121.5
82.5°	14.0	18.6	23.3	37.3	42.1	42.1	56.1	60.7	70.0	74.8	74.8
85°	4.6	9.4	9.4	14.0	23.3	28.1	32.7	37.3	42.1	42.1	46.7
87.5°	4.6	4.6	0.0	4.6	9.4	9.4	18.6	18.6	18.6	28.1	28.1
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: P248674

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0	9564.0
2.5°	9480.0	9484.6	9466.0	9461.4	9451.9	9456.5	9466.0
5°	9307.2	9311.8	9293.2	9274.5	9274.5	9269.7	9274.5
7.5°	9143.6	9148.4	9120.4	9110.9	9092.3	9097.1	9097.1
10°	8980.2	8980.2	8938.3	8933.5	8919.5	8914.9	8914.9
12.5°	8821.5	8807.4	8774.7	8756.1	8765.5	8737.5	8737.5
15°	8681.3	8658.1	8616.0	8601.9	8578.7	8569.3	8569.3
17.5°	8536.6	8517.9	8480.7	8452.6	8424.5	8419.9	8424.5
20°	8396.5	8377.8	8331.1	8312.5	8289.2	8289.2	8279.8
22.5°	8256.3	8237.7	8195.8	8181.8	8149.1	8149.1	8153.7
25°	8111.6	8097.6	8050.9	8041.6	8037.0	8018.2	8027.6
27.5°	7915.5	7906.1	7868.8	7854.8	7836.1	7831.5	7840.8
30°	7555.9	7541.9	7514.0	7500.0	7467.3	7471.9	7481.1
32.5°	7107.6	7089.0	7051.5	7037.5	7009.6	7000.2	7004.8
35°	6547.3	6533.3	6500.6	6500.6	6472.6	6463.1	6472.6
37.5°	5977.6	5991.4	5977.6	5991.4	5977.6	5972.8	5977.6
40°	5440.5	5491.9	5501.1	5552.6	5534.0	5561.8	5557.2
42.5°	4926.7	5010.7	5043.6	5085.5	5076.3	5094.9	5109.0
45°	4408.3	4478.5	4511.2	4539.2	4543.8	4553.3	4557.9
47.5°	3918.0	3974.1	3978.7	4011.4	4006.8	4006.8	4020.8
50°	3460.5	3497.8	3507.0	3530.5	3511.8	3502.4	3507.0
52.5°	3035.5	3072.8	3063.4	3072.8	3049.5	3040.1	3044.7
55°	2601.1	2619.7	2619.7	2619.7	2591.9	2591.9	2591.9
57.5°	2157.5	2162.3	2152.8	2157.5	2152.8	2124.8	2120.2
60°	1751.3	1751.3	1746.5	1751.3	1737.3	1723.2	1723.2
62.5°	1368.2	1377.6	1396.3	1377.6	1368.2	1377.6	1363.6
65°	1022.8	1041.4	1036.6	1046.1	1041.4	1041.4	1032.0
67.5°	770.6	775.2	779.8	784.6	784.6	784.6	784.6
70°	565.1	579.2	574.3	574.3	574.3	574.3	602.4
72.5°	378.3	396.9	392.3	401.5	401.5	411.0	401.5
75°	256.8	275.4	266.2	280.3	275.4	266.2	289.5
77.5°	172.8	182.2	186.8	191.4	186.8	182.2	186.8
80°	121.5	130.7	126.1	130.7	130.7	130.7	135.5
82.5°	74.8	88.8	84.0	88.8	84.0	88.8	88.8
85°	51.3	56.1	46.7	56.1	51.3	51.3	60.7
87.5°	32.7	28.1	28.1	32.7	28.1	32.7	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)