

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: P249016

Luminaire Tested: **LD8B150D010 ER8B150850 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249016  
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 ER8B150850 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16289.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

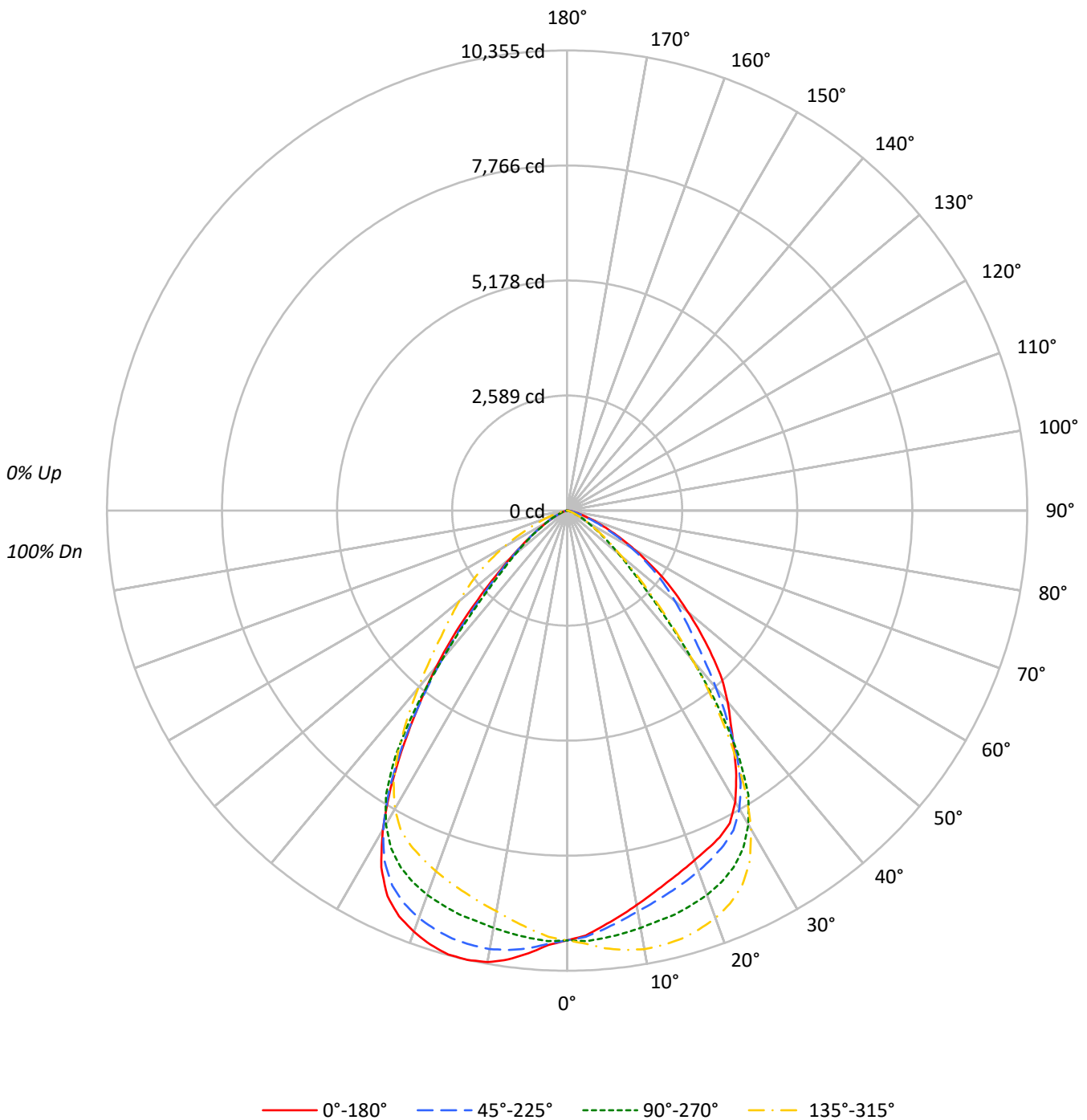
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	298196	298196	298196	298196
5°	290275	298896	309569	298896
10°	282243	298504	323049	298504
15°	276606	300275	330121	300275
20°	274723	301993	330969	301993
25°	276167	301389	325648	301389
30°	269336	290355	295571	290355
35°	246362	253289	240317	253289
40°	226187	176192	183993	176192
45°	200973	107488	124369	107488
50°	170112	71801	79736	71801
55°	140893	48993	51783	48993
60°	107458	32612	32902	32612
65°	76139	20321	18606	20321
70°	54916	13614	12352	13614
75°	34873	6767	5624	6767
80°	24328	5043	4173	5043
85°	21724	0	1663	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.4	5.7
10°-20°	2665.4	16.4
20°-30°	4036.0	24.8
30°-40°	4045.0	24.8
40°-50°	2540.1	15.6
50°-60°	1353.6	8.3
60°-70°	556.6	3.4
70°-80°	147.1	0.9
80°-90°	24.9	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°	7621.8	46.8
0°-40°	11666.8	71.6
0°-60°	15560.5	95.5
0°-90°	16289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16289.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9670	9670	9670	9670	9670	
5°	9378	9656	10001	9656	9378	884
15°	8664	9406	10341	9406	8664	2451
25°	8117	8858	9571	8858	8117	3723
35°	6544	6728	6384	6728	6544	4100
45°	4608	2465	2852	2465	4608	3544
55°	2621	911	963	911	2621	2336
65°	1044	278	255	278	1044	1082
75°	293	57	47	57	293	332
85°	61	0	5	0	61	68
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°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9571.1	9561.6	9557.0	9566.5	9571.1	9590.0	9585.3	9594.7	9594.7	9599.5	9608.8
5°	9377.6	9372.7	9377.6	9377.6	9396.4	9415.3	9410.6	9424.8	9434.1	9457.8	9467.2
7.5°	9198.2	9198.2	9193.3	9212.2	9221.7	9250.1	9245.2	9268.9	9283.1	9306.6	9339.7
10°	9013.9	9013.9	9018.6	9032.8	9037.6	9080.0	9080.0	9113.1	9131.9	9155.6	9198.2
12.5°	8834.5	8834.5	8862.9	8853.4	8872.2	8905.3	8919.5	8952.5	8980.9	9028.1	9070.7
15°	8664.5	8664.5	8674.0	8697.5	8711.7	8754.3	8777.8	8815.7	8848.7	8896.0	8957.4
17.5°	8518.1	8513.5	8518.1	8546.5	8574.9	8612.6	8631.4	8678.7	8711.7	8773.1	8829.9
20°	8371.8	8381.3	8381.3	8404.8	8423.7	8470.9	8489.8	8541.8	8579.6	8636.1	8702.4
22.5°	8244.3	8239.6	8239.6	8272.7	8286.9	8329.2	8348.1	8395.3	8437.9	8485.1	8546.5
25°	8116.8	8107.3	8126.3	8131.0	8140.3	8187.5	8201.7	8234.8	8277.3	8319.9	8381.3
27.5°	7927.9	7918.6	7923.2	7942.1	7956.3	7994.0	8003.5	8036.5	8069.6	8107.3	8159.4
30°	7564.2	7554.9	7550.3	7583.3	7597.5	7625.7	7639.9	7696.6	7705.9	7748.5	7786.2
32.5°	7082.6	7078.0	7087.5	7115.7	7129.9	7167.8	7186.6	7219.7	7243.2	7266.9	7304.6
35°	6544.5	6534.9	6544.5	6572.8	6572.8	6605.9	6620.1	6634.1	6629.4	6634.1	6624.7
37.5°	6044.0	6039.2	6044.0	6058.0	6044.0	6058.0	6044.0	6015.6	5963.7	5907.0	5850.2
40°	5619.0	5623.6	5595.4	5614.3	5562.2	5552.9	5501.0	5430.0	5326.3	5213.0	5052.4
42.5°	5165.7	5151.5	5132.7	5142.0	5099.6	5066.4	4981.5	4891.9	4759.5	4570.8	4377.0
45°	4608.5	4603.9	4594.3	4589.7	4561.3	4528.2	4457.3	4353.5	4207.2	4013.6	3782.1
47.5°	4065.5	4051.3	4051.3	4056.0	4022.9	4018.3	3961.5	3871.9	3744.4	3555.5	3314.7
50°	3546.0	3541.3	3550.8	3569.7	3546.0	3536.7	3498.9	3437.5	3324.2	3163.7	2936.9
52.5°	3078.6	3073.9	3083.4	3106.9	3097.4	3106.9	3069.2	3022.0	2946.4	2790.5	2592.3
55°	2620.7	2620.7	2620.7	2648.8	2648.8	2648.8	2630.0	2601.8	2530.9	2417.6	2233.5
57.5°	2143.7	2148.4	2176.8	2181.4	2176.8	2186.3	2181.4	2153.1	2106.0	2025.7	1884.1
60°	1742.4	1742.4	1756.6	1770.8	1765.9	1770.8	1770.8	1756.6	1709.3	1643.3	1530.0
62.5°	1378.7	1392.9	1383.4	1392.9	1411.8	1392.9	1383.4	1374.1	1341.0	1298.5	1204.0
65°	1043.5	1053.0	1053.0	1057.7	1048.1	1053.0	1034.2	1020.0	1001.1	953.9	892.5
67.5°	793.4	793.4	793.4	793.4	788.5	783.8	779.2	765.0	731.9	713.1	646.8
70°	609.1	580.7	580.7	580.7	580.7	585.6	571.4	552.5	543.0	510.0	462.8
72.5°	406.0	415.5	406.0	406.0	396.7	401.3	382.5	373.0	363.6	344.8	316.4
75°	292.7	269.2	278.5	283.4	269.2	278.5	259.7	240.8	240.8	226.6	212.4
77.5°	188.9	184.2	188.9	193.6	188.9	184.2	174.7	165.2	165.2	160.5	146.3
80°	137.0	132.2	132.2	132.2	127.5	132.2	122.8	122.8	113.3	108.6	99.1
82.5°	89.8	89.8	84.9	89.8	84.9	89.8	75.6	75.6	75.6	70.7	61.4
85°	61.4	51.9	51.9	56.8	47.2	56.8	51.9	47.2	42.6	42.6	37.7
87.5°	28.4	33.0	28.4	33.0	28.4	28.4	33.0	28.4	28.4	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9623.0	9627.7	9627.7	9646.7	9656.1	9660.7	9660.7	9698.6	9684.5	9694.0	9703.3
5°	9486.2	9514.4	9523.9	9523.9	9575.8	9594.7	9613.5	9656.1	9660.7	9689.1	9722.2
7.5°	9353.9	9386.9	9405.9	9448.3	9481.4	9514.4	9571.1	9599.5	9627.7	9665.6	9708.0
10°	9226.4	9264.3	9302.0	9335.0	9386.9	9429.5	9467.2	9533.2	9566.5	9618.4	9674.9
12.5°	9103.7	9155.6	9188.7	9245.2	9302.0	9339.7	9396.4	9457.8	9509.7	9561.6	9627.7
15°	8995.1	9056.5	9094.2	9155.6	9217.0	9268.9	9330.3	9405.9	9443.6	9505.1	9566.5
17.5°	8876.9	8943.2	8990.4	9047.0	9122.6	9179.1	9231.2	9306.6	9353.9	9419.9	9490.9
20°	8754.3	8820.4	8876.9	8933.7	9009.3	9065.8	9127.2	9202.8	9254.7	9320.8	9377.6
22.5°	8607.9	8669.3	8730.6	8796.6	8872.2	8919.5	8990.4	9056.5	9113.1	9174.5	9231.2
25°	8419.0	8494.6	8541.8	8603.1	8664.5	8716.4	8792.0	8858.1	8905.3	8962.0	9013.9
27.5°	8197.1	8253.8	8291.5	8343.4	8404.8	8452.1	8508.6	8574.9	8622.1	8674.0	8711.7
30°	7819.2	7871.3	7904.4	7942.1	8003.5	8046.0	8093.3	8154.5	8187.5	8225.4	8258.5
32.5°	7323.4	7366.0	7384.9	7413.2	7455.8	7498.2	7536.1	7588.0	7602.1	7625.7	7625.7
35°	6605.9	6615.2	6610.6	6620.1	6638.9	6662.4	6695.5	6728.5	6747.4	6747.4	6733.4
37.5°	5765.3	5708.8	5647.3	5600.1	5585.9	5576.4	5595.4	5609.4	5628.5	5637.8	5614.3
40°	4891.9	4764.4	4627.4	4504.5	4419.6	4381.9	4367.7	4377.0	4377.0	4410.1	4410.1
42.5°	4141.1	3942.7	3739.8	3555.5	3432.7	3338.4	3295.9	3295.9	3300.5	3324.2	3338.4
45°	3517.8	3267.5	3031.3	2828.4	2658.4	2535.5	2479.0	2464.8	2460.1	2469.5	2502.5
47.5°	3040.9	2781.2	2535.5	2285.4	2106.0	1983.2	1931.3	1912.2	1893.4	1912.2	1917.1
50°	2667.9	2398.7	2139.1	1888.7	1699.8	1591.2	1525.1	1496.7	1492.1	1492.1	1501.6
52.5°	2327.8	2077.6	1818.0	1563.0	1364.6	1260.8	1199.4	1185.2	1166.3	1185.2	1185.2
55°	2006.7	1756.6	1501.6	1260.8	1095.4	986.9	930.2	911.3	901.8	916.0	916.0
57.5°	1657.4	1444.8	1208.9	991.6	826.4	750.8	708.2	684.7	679.8	689.4	679.8
60°	1359.9	1180.5	977.4	779.2	651.7	571.4	538.4	528.8	519.3	528.8	528.8
62.5°	1076.5	925.5	760.1	609.1	500.5	443.9	406.0	406.0	401.3	401.3	406.0
65°	798.0	679.8	561.9	434.4	349.4	306.9	278.5	278.5	273.8	278.5	273.8
67.5°	580.7	500.5	406.0	316.4	250.3	226.6	207.8	193.6	203.1	193.6	188.9
70°	425.1	358.8	292.7	240.8	193.6	170.1	155.9	151.0	141.7	141.7	141.7
72.5°	283.4	240.8	198.2	155.9	127.5	103.8	99.1	89.8	80.3	84.9	94.5
75°	188.9	160.5	141.7	113.3	84.9	84.9	56.8	56.8	47.2	56.8	42.6
77.5°	132.2	108.6	84.9	70.7	56.8	51.9	37.7	37.7	33.0	33.0	33.0
80°	94.5	80.3	61.4	51.9	37.7	37.7	33.0	28.4	23.5	23.5	28.4
82.5°	56.8	42.6	42.6	37.7	23.5	18.9	14.2	18.9	9.5	9.5	9.5
85°	33.0	28.4	23.5	14.2	9.5	9.5	4.7	0.0	4.7	4.7	0.0
87.5°	18.9	9.5	9.5	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.5
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°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9727.0	9722.2	9731.7	9731.7	9760.1	9755.2	9769.4	9769.4	9760.1	9764.7	9783.6
5°	9760.1	9774.2	9802.4	9826.1	9868.5	9887.6	9911.1	9934.8	9939.4	9953.6	9967.8
7.5°	9760.1	9807.3	9840.3	9882.7	9939.4	9972.5	10024.4	10066.9	10085.8	10109.3	10137.7
10°	9741.0	9788.2	9849.7	9896.9	9967.8	10019.7	10071.6	10137.7	10166.1	10203.8	10241.7
12.5°	9703.3	9755.2	9821.3	9882.7	9963.0	10010.2	10076.3	10137.7	10180.2	10232.1	10274.7
15°	9646.7	9708.0	9769.4	9830.8	9915.7	9972.5	10033.9	10104.6	10147.2	10203.8	10241.7
17.5°	9557.0	9623.0	9679.8	9736.3	9816.6	9882.7	9939.4	10005.5	10048.1	10095.3	10147.2
20°	9448.3	9509.7	9571.1	9618.4	9698.6	9755.2	9816.6	9878.0	9911.1	9920.6	10000.9
22.5°	9311.5	9353.9	9401.1	9476.7	9523.9	9575.8	9632.6	9689.1	9722.2	9774.2	9802.4
25°	9084.7	9127.2	9179.1	9212.2	9268.9	9311.5	9368.0	9429.5	9448.3	9486.2	9514.4
27.5°	8768.5	8792.0	8815.7	8843.9	8876.9	8900.6	8933.7	8962.0	8980.9	8999.7	9018.6
30°	8267.8	8267.8	8267.8	8249.0	8263.1	8277.3	8282.0	8277.3	8277.3	8272.7	8272.7
32.5°	7606.8	7569.1	7526.5	7488.8	7474.6	7455.8	7446.3	7432.1	7408.6	7394.4	7399.0
35°	6714.3	6629.4	6577.5	6530.3	6492.6	6464.2	6450.0	6435.8	6431.2	6412.3	6393.3
37.5°	5600.1	5538.7	5501.0	5472.6	5439.6	5411.2	5415.9	5420.7	5434.7	5425.4	5430.0
40°	4419.6	4405.4	4419.6	4386.6	4377.0	4386.6	4410.1	4443.3	4462.2	4481.0	4514.1
42.5°	3361.9	3385.4	3418.7	3418.7	3432.7	3451.7	3479.9	3532.0	3560.2	3593.2	3631.1
45°	2530.9	2559.2	2601.8	2615.8	2625.3	2648.8	2682.1	2724.5	2743.3	2771.7	2804.7
47.5°	1950.1	1969.0	1992.5	2016.2	2039.7	2049.3	2082.3	2082.3	2106.0	2124.9	2134.2
50°	1520.4	1539.3	1558.1	1572.3	1581.8	1596.0	1605.4	1619.5	1624.2	1633.7	1638.4
52.5°	1189.8	1213.5	1213.5	1222.9	1237.1	1251.2	1246.6	1251.2	1255.9	1255.9	1270.1
55°	930.2	930.2	944.4	944.4	953.9	949.0	953.9	953.9	953.9	953.9	958.6
57.5°	694.0	698.9	713.1	703.6	698.9	708.2	698.9	708.2	703.6	713.1	698.9
60°	533.5	533.5	538.4	538.4	543.0	543.0	543.0	538.4	538.4	533.5	533.5
62.5°	401.3	406.0	410.9	406.0	406.0	406.0	401.3	401.3	396.7	391.8	391.8
65°	269.2	264.5	273.8	264.5	269.2	269.2	264.5	269.2	255.0	259.7	255.0
67.5°	193.6	188.9	184.2	188.9	184.2	179.4	179.4	184.2	188.9	174.7	174.7
70°	127.5	132.2	127.5	132.2	137.0	137.0	132.2	127.5	132.2	122.8	127.5
72.5°	80.3	80.3	80.3	80.3	80.3	84.9	84.9	84.9	75.6	75.6	70.7
75°	37.7	51.9	42.6	37.7	51.9	51.9	47.2	47.2	42.6	42.6	42.6
77.5°	37.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4	23.5	28.4	23.5
80°	18.9	18.9	18.9	14.2	18.9	18.9	23.5	18.9	18.9	14.2	23.5
82.5°	9.5	9.5	9.5	0.0	4.7	9.5	9.5	4.7	9.5	9.5	4.7
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: P249016

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9778.9	9774.2	9778.9	9783.6	9778.9	9774.2	9778.9	9783.6	9764.7	9760.1	9769.4
5°	9986.7	9986.7	9996.0	10000.9	9996.0	9986.7	9986.7	9967.8	9953.6	9939.4	9934.8
7.5°	10166.1	10175.6	10184.9	10189.6	10184.9	10175.6	10166.1	10137.7	10109.3	10085.8	10066.9
10°	10274.7	10288.9	10307.7	10317.1	10307.7	10288.9	10274.7	10241.7	10203.8	10166.1	10137.7
12.5°	10321.9	10336.1	10359.6	10355.0	10359.6	10336.1	10321.9	10274.7	10232.1	10180.2	10137.7
15°	10288.9	10307.7	10331.3	10340.8	10331.3	10307.7	10288.9	10241.7	10203.8	10147.2	10104.6
17.5°	10184.9	10213.3	10227.5	10241.7	10227.5	10213.3	10184.9	10147.2	10095.3	10048.1	10005.5
20°	10043.2	10062.3	10081.1	10085.8	10081.1	10062.3	10043.2	10000.9	9920.6	9911.1	9878.0
22.5°	9840.3	9854.5	9896.9	9882.7	9896.9	9854.5	9840.3	9802.4	9774.2	9722.2	9689.1
25°	9547.4	9561.6	9566.5	9571.1	9566.5	9561.6	9547.4	9514.4	9486.2	9448.3	9429.5
27.5°	9042.3	9042.3	9051.6	9056.5	9051.6	9042.3	9042.3	9018.6	8999.7	8980.9	8962.0
30°	8277.3	8277.3	8277.3	8301.0	8277.3	8277.3	8277.3	8272.7	8272.7	8277.3	8277.3
32.5°	7394.4	7384.9	7375.5	7384.9	7375.5	7384.9	7394.4	7399.0	7394.4	7408.6	7432.1
35°	6393.3	6388.6	6402.8	6383.9	6402.8	6388.6	6393.3	6393.3	6412.3	6431.2	6435.8
37.5°	5434.7	5425.4	5444.2	5425.4	5444.2	5425.4	5434.7	5430.0	5425.4	5434.7	5420.7
40°	4523.6	4532.9	4532.9	4570.8	4532.9	4532.9	4523.6	4514.1	4481.0	4462.2	4443.3
42.5°	3650.0	3678.3	3668.8	3697.2	3668.8	3678.3	3650.0	3631.1	3593.2	3560.2	3532.0
45°	2823.6	2842.6	2842.6	2851.9	2842.6	2842.6	2823.6	2804.7	2771.7	2743.3	2724.5
47.5°	2167.2	2167.2	2167.2	2172.1	2167.2	2167.2	2167.2	2134.2	2124.9	2106.0	2082.3
50°	1647.9	1652.6	1657.4	1662.1	1657.4	1652.6	1647.9	1638.4	1633.7	1624.2	1619.5
52.5°	1265.4	1270.1	1260.8	1270.1	1260.8	1270.1	1265.4	1270.1	1255.9	1255.9	1251.2
55°	958.6	953.9	958.6	963.2	958.6	953.9	958.6	958.6	953.9	953.9	953.9
57.5°	703.6	694.0	694.0	694.0	694.0	694.0	703.6	698.9	713.1	703.6	708.2
60°	524.2	528.8	528.8	533.5	528.8	528.8	524.2	533.5	533.5	538.4	538.4
62.5°	387.2	401.3	391.8	401.3	391.8	401.3	387.2	391.8	391.8	396.7	401.3
65°	250.3	250.3	250.3	255.0	250.3	250.3	250.3	255.0	259.7	255.0	269.2
67.5°	170.1	174.7	184.2	179.4	184.2	174.7	170.1	174.7	174.7	188.9	184.2
70°	137.0	122.8	122.8	137.0	122.8	122.8	137.0	127.5	122.8	132.2	127.5
72.5°	80.3	70.7	80.3	80.3	80.3	70.7	80.3	70.7	75.6	75.6	84.9
75°	42.6	37.7	33.0	47.2	33.0	37.7	42.6	42.6	42.6	42.6	47.2
77.5°	28.4	23.5	33.0	33.0	33.0	23.5	28.4	23.5	28.4	23.5	28.4
80°	14.2	18.9	14.2	23.5	14.2	18.9	14.2	23.5	14.2	18.9	18.9
82.5°	4.7	9.5	9.5	9.5	9.5	9.5	4.7	4.7	9.5	9.5	4.7
85°	0.0	9.5	4.7	4.7	4.7	9.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	4.7	0.0	0.0	4.7	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: P249016

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9769.4	9755.2	9760.1	9731.7	9731.7	9722.2	9727.0	9703.3	9694.0	9684.5	9698.6
5°	9911.1	9887.6	9868.5	9826.1	9802.4	9774.2	9760.1	9722.2	9689.1	9660.7	9656.1
7.5°	10024.4	9972.5	9939.4	9882.7	9840.3	9807.3	9760.1	9708.0	9665.6	9627.7	9599.5
10°	10071.6	10019.7	9967.8	9896.9	9849.7	9788.2	9741.0	9674.9	9618.4	9566.5	9533.2
12.5°	10076.3	10010.2	9963.0	9882.7	9821.3	9755.2	9703.3	9627.7	9561.6	9509.7	9457.8
15°	10033.9	9972.5	9915.7	9830.8	9769.4	9708.0	9646.7	9566.5	9505.1	9443.6	9405.9
17.5°	9939.4	9882.7	9816.6	9736.3	9679.8	9623.0	9557.0	9490.9	9419.9	9353.9	9306.6
20°	9816.6	9755.2	9698.6	9618.4	9571.1	9509.7	9448.3	9377.6	9320.8	9254.7	9202.8
22.5°	9632.6	9575.8	9523.9	9476.7	9401.1	9353.9	9311.5	9231.2	9174.5	9113.1	9056.5
25°	9368.0	9311.5	9268.9	9212.2	9179.1	9127.2	9084.7	9013.9	8962.0	8905.3	8858.1
27.5°	8933.7	8900.6	8876.9	8843.9	8815.7	8792.0	8768.5	8711.7	8674.0	8622.1	8574.9
30°	8282.0	8277.3	8263.1	8249.0	8267.8	8267.8	8267.8	8258.5	8225.4	8187.5	8154.5
32.5°	7446.3	7455.8	7474.6	7488.8	7526.5	7569.1	7606.8	7625.7	7625.7	7602.1	7588.0
35°	6450.0	6464.2	6492.6	6530.3	6577.5	6629.4	6714.3	6733.4	6747.4	6747.4	6728.5
37.5°	5415.9	5411.2	5439.6	5472.6	5501.0	5538.7	5600.1	5614.3	5637.8	5628.5	5609.4
40°	4410.1	4386.6	4377.0	4386.6	4419.6	4405.4	4419.6	4410.1	4410.1	4377.0	4377.0
42.5°	3479.9	3451.7	3432.7	3418.7	3418.7	3385.4	3361.9	3338.4	3324.2	3300.5	3295.9
45°	2682.1	2648.8	2625.3	2615.8	2601.8	2559.2	2530.9	2502.5	2469.5	2460.1	2464.8
47.5°	2082.3	2049.3	2039.7	2016.2	1992.5	1969.0	1950.1	1917.1	1912.2	1893.4	1912.2
50°	1605.4	1596.0	1581.8	1572.3	1558.1	1539.3	1520.4	1501.6	1492.1	1492.1	1496.7
52.5°	1246.6	1251.2	1237.1	1222.9	1213.5	1213.5	1189.8	1185.2	1185.2	1166.3	1185.2
55°	953.9	949.0	953.9	944.4	944.4	930.2	930.2	916.0	916.0	901.8	911.3
57.5°	698.9	708.2	698.9	703.6	713.1	698.9	694.0	679.8	689.4	679.8	684.7
60°	543.0	543.0	543.0	538.4	538.4	533.5	533.5	528.8	528.8	519.3	528.8
62.5°	401.3	406.0	406.0	406.0	410.9	406.0	401.3	406.0	401.3	401.3	406.0
65°	264.5	269.2	269.2	264.5	273.8	264.5	269.2	273.8	278.5	273.8	278.5
67.5°	179.4	179.4	184.2	188.9	184.2	188.9	193.6	188.9	193.6	203.1	193.6
70°	132.2	137.0	137.0	132.2	127.5	132.2	127.5	141.7	141.7	141.7	151.0
72.5°	84.9	84.9	80.3	80.3	80.3	80.3	80.3	94.5	84.9	80.3	89.8
75°	47.2	51.9	51.9	37.7	42.6	51.9	37.7	42.6	56.8	47.2	56.8
77.5°	28.4	28.4	28.4	28.4	28.4	28.4	37.7	33.0	33.0	33.0	37.7
80°	23.5	18.9	18.9	14.2	18.9	18.9	18.9	28.4	23.5	23.5	28.4
82.5°	9.5	9.5	4.7	0.0	9.5	9.5	9.5	9.5	9.5	9.5	18.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	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: P249016

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9660.7	9660.7	9656.1	9646.7	9627.7	9627.7	9623.0	9608.8	9599.5	9594.7	9594.7
5°	9613.5	9594.7	9575.8	9523.9	9523.9	9514.4	9486.2	9467.2	9457.8	9434.1	9424.8
7.5°	9571.1	9514.4	9481.4	9448.3	9405.9	9386.9	9353.9	9339.7	9306.6	9283.1	9268.9
10°	9467.2	9429.5	9386.9	9335.0	9302.0	9264.3	9226.4	9198.2	9155.6	9131.9	9113.1
12.5°	9396.4	9339.7	9302.0	9245.2	9188.7	9155.6	9103.7	9070.7	9028.1	8980.9	8952.5
15°	9330.3	9268.9	9217.0	9155.6	9094.2	9056.5	8995.1	8957.4	8896.0	8848.7	8815.7
17.5°	9231.2	9179.1	9122.6	9047.0	8990.4	8943.2	8876.9	8829.9	8773.1	8711.7	8678.7
20°	9127.2	9065.8	9009.3	8933.7	8876.9	8820.4	8754.3	8702.4	8636.1	8579.6	8541.8
22.5°	8990.4	8919.5	8872.2	8796.6	8730.6	8669.3	8607.9	8546.5	8485.1	8437.9	8395.3
25°	8792.0	8716.4	8664.5	8603.1	8541.8	8494.6	8419.0	8381.3	8319.9	8277.3	8234.8
27.5°	8508.6	8452.1	8404.8	8343.4	8291.5	8253.8	8197.1	8159.4	8107.3	8069.6	8036.5
30°	8093.3	8046.0	8003.5	7942.1	7904.4	7871.3	7819.2	7786.2	7748.5	7705.9	7696.6
32.5°	7536.1	7498.2	7455.8	7413.2	7384.9	7366.0	7323.4	7304.6	7266.9	7243.2	7219.7
35°	6695.5	6662.4	6638.9	6620.1	6610.6	6615.2	6605.9	6624.7	6634.1	6629.4	6634.1
37.5°	5595.4	5576.4	5585.9	5600.1	5647.3	5708.8	5765.3	5850.2	5907.0	5963.7	6015.6
40°	4367.7	4381.9	4419.6	4504.5	4627.4	4764.4	4891.9	5052.4	5213.0	5326.3	5430.0
42.5°	3295.9	3338.4	3432.7	3555.5	3739.8	3942.7	4141.1	4377.0	4570.8	4759.5	4891.9
45°	2479.0	2535.5	2658.4	2828.4	3031.3	3267.5	3517.8	3782.1	4013.6	4207.2	4353.5
47.5°	1931.3	1983.2	2106.0	2285.4	2535.5	2781.2	3040.9	3314.7	3555.5	3744.4	3871.9
50°	1525.1	1591.2	1699.8	1888.7	2139.1	2398.7	2667.9	2936.9	3163.7	3324.2	3437.5
52.5°	1199.4	1260.8	1364.6	1563.0	1818.0	2077.6	2327.8	2592.3	2790.5	2946.4	3022.0
55°	930.2	986.9	1095.4	1260.8	1501.6	1756.6	2006.7	2233.5	2417.6	2530.9	2601.8
57.5°	708.2	750.8	826.4	991.6	1208.9	1444.8	1657.4	1884.1	2025.7	2106.0	2153.1
60°	538.4	571.4	651.7	779.2	977.4	1180.5	1359.9	1530.0	1643.3	1709.3	1756.6
62.5°	406.0	443.9	500.5	609.1	760.1	925.5	1076.5	1204.0	1298.5	1341.0	1374.1
65°	278.5	306.9	349.4	434.4	561.9	679.8	798.0	892.5	953.9	1001.1	1020.0
67.5°	207.8	226.6	250.3	316.4	406.0	500.5	580.7	646.8	713.1	731.9	765.0
70°	155.9	170.1	193.6	240.8	292.7	358.8	425.1	462.8	510.0	543.0	552.5
72.5°	99.1	103.8	127.5	155.9	198.2	240.8	283.4	316.4	344.8	363.6	373.0
75°	56.8	84.9	84.9	113.3	141.7	160.5	188.9	212.4	226.6	240.8	240.8
77.5°	37.7	51.9	56.8	70.7	84.9	108.6	132.2	146.3	160.5	165.2	165.2
80°	33.0	37.7	37.7	51.9	61.4	80.3	94.5	99.1	108.6	113.3	122.8
82.5°	14.2	18.9	23.5	37.7	42.6	42.6	56.8	61.4	70.7	75.6	75.6
85°	4.7	9.5	9.5	14.2	23.5	28.4	33.0	37.7	42.6	42.6	47.2
87.5°	4.7	4.7	0.0	4.7	9.5	9.5	18.9	18.9	18.9	28.4	28.4
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: P249016

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3	9670.3
2.5°	9585.3	9590.0	9571.1	9566.5	9557.0	9561.6	9571.1
5°	9410.6	9415.3	9396.4	9377.6	9377.6	9372.7	9377.6
7.5°	9245.2	9250.1	9221.7	9212.2	9193.3	9198.2	9198.2
10°	9080.0	9080.0	9037.6	9032.8	9018.6	9013.9	9013.9
12.5°	8919.5	8905.3	8872.2	8853.4	8862.9	8834.5	8834.5
15°	8777.8	8754.3	8711.7	8697.5	8674.0	8664.5	8664.5
17.5°	8631.4	8612.6	8574.9	8546.5	8518.1	8513.5	8518.1
20°	8489.8	8470.9	8423.7	8404.8	8381.3	8381.3	8371.8
22.5°	8348.1	8329.2	8286.9	8272.7	8239.6	8239.6	8244.3
25°	8201.7	8187.5	8140.3	8131.0	8126.3	8107.3	8116.8
27.5°	8003.5	7994.0	7956.3	7942.1	7923.2	7918.6	7927.9
30°	7639.9	7625.7	7597.5	7583.3	7550.3	7554.9	7564.2
32.5°	7186.6	7167.8	7129.9	7115.7	7087.5	7078.0	7082.6
35°	6620.1	6605.9	6572.8	6572.8	6544.5	6534.9	6544.5
37.5°	6044.0	6058.0	6044.0	6058.0	6044.0	6039.2	6044.0
40°	5501.0	5552.9	5562.2	5614.3	5595.4	5623.6	5619.0
42.5°	4981.5	5066.4	5099.6	5142.0	5132.7	5151.5	5165.7
45°	4457.3	4528.2	4561.3	4589.7	4594.3	4603.9	4608.5
47.5°	3961.5	4018.3	4022.9	4056.0	4051.3	4051.3	4065.5
50°	3498.9	3536.7	3546.0	3569.7	3550.8	3541.3	3546.0
52.5°	3069.2	3106.9	3097.4	3106.9	3083.4	3073.9	3078.6
55°	2630.0	2648.8	2648.8	2648.8	2620.7	2620.7	2620.7
57.5°	2181.4	2186.3	2176.8	2181.4	2176.8	2148.4	2143.7
60°	1770.8	1770.8	1765.9	1770.8	1756.6	1742.4	1742.4
62.5°	1383.4	1392.9	1411.8	1392.9	1383.4	1392.9	1378.7
65°	1034.2	1053.0	1048.1	1057.7	1053.0	1053.0	1043.5
67.5°	779.2	783.8	788.5	793.4	793.4	793.4	793.4
70°	571.4	585.6	580.7	580.7	580.7	580.7	609.1
72.5°	382.5	401.3	396.7	406.0	406.0	415.5	406.0
75°	259.7	278.5	269.2	283.4	278.5	269.2	292.7
77.5°	174.7	184.2	188.9	193.6	188.9	184.2	188.9
80°	122.8	132.2	127.5	132.2	132.2	132.2	137.0
82.5°	75.6	89.8	84.9	89.8	84.9	89.8	89.8
85°	51.9	56.8	47.2	56.8	51.9	51.9	61.4
87.5°	33.0	28.4	28.4	33.0	28.4	33.0	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)