

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: P248738

Luminaire Tested: **LD8B175D010 ER8B175950 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248738  
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: LD8B175D010 ER8B175950 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16772.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

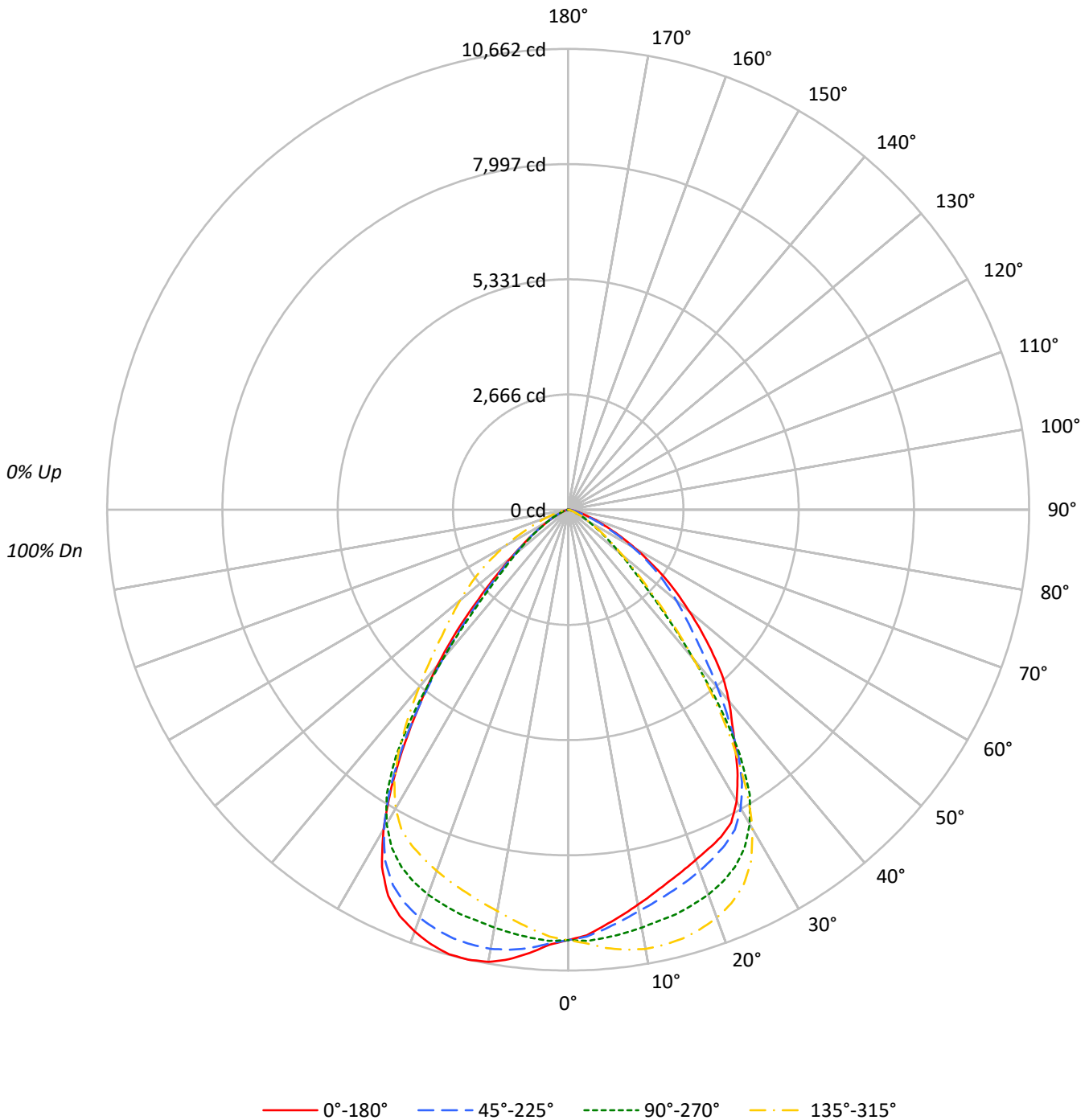
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	307037	307037	307037	307037
5°	298880	307758	318747	307758
10°	290613	307356	332628	307356
15°	284808	309179	339909	309179
20°	282868	310948	340784	310948
25°	284356	310324	335304	310324
30°	277323	298965	304338	298965
35°	253665	260799	247443	260799
40°	232893	181416	189447	181416
45°	206934	110676	128058	110676
50°	175153	73931	82101	73931
55°	145070	50444	53321	50444
60°	110641	33581	33877	33581
65°	78394	20926	19161	20926
70°	56548	14020	12721	14020
75°	35910	6958	5790	6958
80°	25056	5185	4297	5185
85°	22361	0	1698	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	947.7	5.7
10°-20°	2744.4	16.4
20°-30°	4155.6	24.8
30°-40°	4165.0	24.8
40°-50°	2615.4	15.6
50°-60°	1393.7	8.3
60°-70°	573.1	3.4
70°-80°	151.4	0.9
80°-90°	25.6	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°	7847.8	46.8
0°-40°	12012.7	71.6
0°-60°	16021.9	95.5
0°-90°	16772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16772.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9957	9957	9957	9957	9957	
5°	9656	9942	10297	9942	9656	911
15°	8921	9685	10647	9685	8921	2523
25°	8358	9121	9855	9121	8358	3833
35°	6738	6928	6573	6928	6738	4222
45°	4745	2538	2936	2538	4745	3649
55°	2698	938	992	938	2698	2406
65°	1074	287	263	287	1074	1115
75°	301	58	49	58	301	341
85°	63	0	5	0	63	69
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°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	9854.9	9845.1	9840.3	9850.1	9854.9	9874.4	9869.6	9879.2	9879.2	9884.2	9893.8
5°	9655.6	9650.6	9655.6	9655.6	9675.0	9694.5	9689.6	9704.3	9713.9	9738.3	9747.9
7.5°	9470.9	9470.9	9465.9	9485.3	9495.1	9524.4	9519.4	9543.8	9558.4	9582.6	9616.6
10°	9281.2	9281.2	9286.0	9300.6	9305.6	9349.3	9349.3	9383.3	9402.7	9427.1	9470.9
12.5°	9096.5	9096.5	9125.7	9115.9	9135.3	9169.3	9184.0	9218.0	9247.2	9295.8	9339.6
15°	8921.4	8921.4	8931.2	8955.4	8970.0	9013.9	9038.1	9077.1	9111.1	9159.7	9223.0
17.5°	8770.7	8765.9	8770.7	8799.9	8829.1	8868.0	8887.4	8936.0	8970.0	9033.3	9091.7
20°	8620.0	8629.8	8629.8	8654.0	8673.5	8722.1	8741.5	8795.1	8834.0	8892.2	8960.4
22.5°	8488.7	8483.9	8483.9	8518.0	8532.6	8576.2	8595.6	8644.2	8688.1	8736.7	8799.9
25°	8357.5	8347.7	8367.3	8372.1	8381.7	8430.3	8444.9	8478.9	8522.8	8566.6	8629.8
27.5°	8163.0	8153.4	8158.2	8177.6	8192.2	8231.0	8240.8	8274.8	8308.8	8347.7	8401.3
30°	7788.5	7778.9	7774.1	7808.2	7822.8	7851.8	7866.4	7924.8	7934.4	7978.3	8017.1
32.5°	7292.7	7287.8	7297.7	7326.7	7341.3	7380.3	7399.7	7433.7	7457.9	7482.4	7521.2
35°	6738.5	6728.7	6738.5	6767.7	6767.7	6801.8	6816.4	6830.8	6826.0	6830.8	6821.2
37.5°	6223.2	6218.2	6223.2	6237.6	6223.2	6237.6	6223.2	6194.0	6140.6	6082.1	6023.7
40°	5785.6	5790.4	5761.4	5780.8	5727.1	5717.5	5664.1	5591.1	5484.2	5367.5	5202.2
42.5°	5318.9	5304.3	5284.9	5294.5	5250.9	5216.6	5129.2	5036.9	4900.7	4706.3	4506.8
45°	4745.2	4740.4	4730.6	4725.8	4696.5	4662.5	4589.5	4482.6	4331.9	4132.6	3894.3
47.5°	4186.0	4171.4	4171.4	4176.2	4142.2	4137.4	4079.0	3986.7	3855.4	3660.9	3413.0
50°	3651.1	3646.3	3656.1	3675.5	3651.1	3641.5	3602.7	3539.5	3422.8	3257.5	3024.0
52.5°	3169.8	3165.0	3174.9	3199.1	3189.3	3199.1	3160.2	3111.6	3033.8	2873.3	2669.2
55°	2698.4	2698.4	2698.4	2727.4	2727.4	2727.4	2708.0	2679.0	2605.9	2489.3	2299.7
57.5°	2207.3	2212.1	2241.3	2246.1	2241.3	2251.1	2246.1	2216.9	2168.5	2085.8	1939.9
60°	1794.0	1794.0	1808.7	1823.3	1818.3	1823.3	1823.3	1808.7	1760.0	1692.0	1575.3
62.5°	1419.6	1434.2	1424.4	1434.2	1453.6	1434.2	1424.4	1414.8	1380.8	1337.0	1239.7
65°	1074.4	1084.2	1084.2	1089.0	1079.2	1084.2	1064.8	1050.2	1030.8	982.2	918.9
67.5°	816.9	816.9	816.9	816.9	811.9	807.1	802.3	787.7	753.6	734.2	666.0
70°	627.2	597.9	597.9	597.9	597.9	603.0	588.3	568.9	559.1	525.1	476.5
72.5°	418.0	427.8	418.0	418.0	408.4	413.2	393.8	384.0	374.4	355.0	325.8
75°	301.4	277.2	286.8	291.8	277.2	286.8	267.4	247.9	247.9	233.3	218.7
77.5°	194.5	189.7	194.5	199.3	194.5	189.7	179.9	170.1	170.1	165.3	150.7
80°	141.1	136.1	136.1	136.1	131.3	136.1	126.5	126.5	116.7	111.9	102.1
82.5°	92.5	92.5	87.5	92.5	87.5	92.5	77.8	77.8	77.8	72.8	63.2
85°	63.2	53.4	53.4	58.4	48.6	58.4	53.4	48.6	43.8	43.8	38.8
87.5°	29.2	34.0	29.2	34.0	29.2	29.2	34.0	29.2	29.2	19.4	19.4
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°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	9908.4	9913.2	9913.2	9932.8	9942.4	9947.2	9947.2	9986.2	9971.6	9981.4	9991.0
5°	9767.5	9796.5	9806.3	9806.3	9859.7	9879.2	9898.6	9942.4	9947.2	9976.4	10010.4
7.5°	9631.2	9665.2	9684.8	9728.5	9762.5	9796.5	9854.9	9884.2	9913.2	9952.2	9995.8
10°	9499.9	9539.0	9577.8	9611.8	9665.2	9709.1	9747.9	9815.9	9850.1	9903.6	9961.8
12.5°	9373.7	9427.1	9461.1	9519.4	9577.8	9616.6	9675.0	9738.3	9791.7	9845.1	9913.2
15°	9261.8	9325.0	9363.9	9427.1	9490.3	9543.8	9607.0	9684.8	9723.7	9786.9	9850.1
17.5°	9140.1	9208.4	9257.0	9315.2	9393.1	9451.3	9504.9	9582.6	9631.2	9699.3	9772.3
20°	9013.9	9081.9	9140.1	9198.6	9276.4	9334.6	9397.9	9475.7	9529.2	9597.2	9655.6
22.5°	8863.2	8926.4	8989.4	9057.5	9135.3	9184.0	9257.0	9325.0	9383.3	9446.5	9504.9
25°	8668.7	8746.5	8795.1	8858.2	8921.4	8974.8	9052.7	9120.7	9169.3	9227.8	9281.2
27.5°	8440.1	8498.6	8537.4	8590.8	8654.0	8702.7	8760.9	8829.1	8877.8	8931.2	8970.0
30°	8051.1	8104.7	8138.7	8177.6	8240.8	8284.6	8333.3	8396.3	8430.3	8469.3	8503.4
32.5°	7540.6	7584.4	7603.8	7633.1	7676.9	7720.5	7759.5	7813.0	7827.6	7851.8	7851.8
35°	6801.8	6811.4	6806.6	6816.4	6835.8	6860.0	6894.0	6928.0	6947.5	6947.5	6933.0
37.5°	5936.3	5878.0	5814.8	5766.2	5751.6	5741.7	5761.4	5775.8	5795.4	5805.0	5780.8
40°	5036.9	4905.7	4764.6	4638.1	4550.7	4511.8	4497.2	4506.8	4506.8	4540.8	4540.8
42.5°	4263.9	4059.6	3850.6	3660.9	3534.5	3437.4	3393.6	3393.6	3398.4	3422.8	3437.4
45°	3622.1	3364.4	3121.2	2912.3	2737.2	2610.7	2552.5	2537.9	2533.1	2542.7	2576.7
47.5°	3131.0	2863.7	2610.7	2353.2	2168.5	2042.0	1988.6	1968.9	1949.5	1968.9	1974.0
50°	2747.0	2469.8	2202.5	1944.7	1750.2	1638.4	1570.3	1541.1	1536.3	1536.3	1546.1
52.5°	2396.8	2139.2	1871.9	1609.3	1405.0	1298.2	1234.9	1220.3	1200.9	1220.3	1220.3
55°	2066.2	1808.7	1546.1	1298.2	1127.9	1016.2	957.8	938.3	928.5	943.1	943.1
57.5°	1706.6	1487.7	1244.7	1021.0	850.9	773.1	729.2	705.0	700.0	709.8	700.0
60°	1400.2	1215.5	1006.4	802.3	671.0	588.3	554.3	544.5	534.7	544.5	544.5
62.5°	1108.4	953.0	782.7	627.2	515.3	457.1	418.0	418.0	413.2	413.2	418.0
65°	821.7	700.0	578.5	447.3	359.8	316.0	286.8	286.8	282.0	286.8	282.0
67.5°	597.9	515.3	418.0	325.8	257.8	233.3	213.9	199.3	209.1	199.3	194.5
70°	437.7	369.4	301.4	247.9	199.3	175.1	160.5	155.5	145.9	145.9	145.9
72.5°	291.8	247.9	204.1	160.5	131.3	106.9	102.1	92.5	82.6	87.5	97.3
75°	194.5	165.3	145.9	116.7	87.5	87.5	58.4	58.4	48.6	58.4	43.8
77.5°	136.1	111.9	87.5	72.8	58.4	53.4	38.8	38.8	34.0	34.0	34.0
80°	97.3	82.6	63.2	53.4	38.8	38.8	34.0	29.2	24.2	24.2	29.2
82.5°	58.4	43.8	43.8	38.8	24.2	19.4	14.6	19.4	9.8	9.8	9.8
85°	34.0	29.2	24.2	14.6	9.8	9.8	4.8	0.0	4.8	4.8	0.0
87.5°	19.4	9.8	9.8	4.8	0.0	4.8	4.8	0.0	0.0	0.0	9.8
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°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	10015.4	10010.4	10020.2	10020.2	10049.5	10044.5	10059.1	10059.1	10049.5	10054.3	10073.7
5°	10049.5	10064.1	10093.1	10117.5	10161.1	10180.7	10204.9	10229.4	10234.2	10248.8	10263.4
7.5°	10049.5	10098.1	10132.1	10175.7	10234.2	10268.2	10321.6	10365.4	10384.9	10409.1	10438.3
10°	10029.8	10078.5	10141.7	10190.3	10263.4	10316.8	10370.2	10438.3	10467.5	10506.3	10545.3
12.5°	9991.0	10044.5	10112.5	10175.7	10258.4	10307.0	10375.0	10438.3	10482.1	10535.5	10579.4
15°	9932.8	9995.8	10059.1	10122.3	10209.8	10268.2	10331.4	10404.3	10448.1	10506.3	10545.3
17.5°	9840.3	9908.4	9966.8	10025.0	10107.7	10175.7	10234.2	10302.2	10346.0	10394.7	10448.1
20°	9728.5	9791.7	9854.9	9903.6	9986.2	10044.5	10107.7	10170.9	10204.9	10214.8	10297.4
22.5°	9587.6	9631.2	9679.8	9757.7	9806.3	9859.7	9918.2	9976.4	10010.4	10064.1	10093.1
25°	9354.1	9397.9	9451.3	9485.3	9543.8	9587.6	9645.8	9709.1	9728.5	9767.5	9796.5
27.5°	9028.5	9052.7	9077.1	9106.1	9140.1	9164.5	9198.6	9227.8	9247.2	9266.6	9286.0
30°	8513.0	8513.0	8513.0	8493.6	8508.2	8522.8	8527.6	8522.8	8522.8	8518.0	8518.0
32.5°	7832.4	7793.5	7749.7	7710.9	7696.3	7676.9	7667.1	7652.5	7628.2	7613.6	7618.4
35°	6913.4	6826.0	6772.5	6723.9	6685.1	6655.9	6641.3	6626.7	6621.9	6602.4	6582.8
37.5°	5766.2	5702.9	5664.1	5634.9	5600.9	5571.6	5576.5	5581.5	5595.9	5586.3	5591.1
40°	4550.7	4536.0	4550.7	4516.6	4506.8	4516.6	4540.8	4575.1	4594.5	4613.9	4647.9
42.5°	3461.6	3485.8	3520.1	3520.1	3534.5	3554.1	3583.1	3636.7	3665.7	3699.8	3738.8
45°	2605.9	2635.1	2679.0	2693.4	2703.2	2727.4	2761.6	2805.2	2824.6	2853.9	2887.9
47.5°	2008.0	2027.4	2051.6	2076.0	2100.2	2110.0	2144.1	2144.1	2168.5	2187.9	2197.5
50°	1565.5	1584.9	1604.3	1618.9	1628.7	1643.4	1653.0	1667.6	1672.4	1682.2	1687.0
52.5°	1225.1	1249.5	1249.5	1259.1	1273.7	1288.4	1283.5	1288.4	1293.2	1293.2	1307.8
55°	957.8	957.8	972.4	972.4	982.2	977.2	982.2	982.2	982.2	982.2	987.0
57.5°	714.6	719.6	734.2	724.4	719.6	729.2	719.6	729.2	724.4	734.2	719.6
60°	549.3	549.3	554.3	554.3	559.1	559.1	559.1	554.3	554.3	549.3	549.3
62.5°	413.2	418.0	423.0	418.0	418.0	418.0	413.2	413.2	408.4	403.4	403.4
65°	277.2	272.4	282.0	272.4	277.2	277.2	272.4	277.2	262.6	267.4	262.6
67.5°	199.3	194.5	189.7	194.5	189.7	184.7	184.7	189.7	194.5	179.9	179.9
70°	131.3	136.1	131.3	136.1	141.1	141.1	136.1	131.3	136.1	126.5	131.3
72.5°	82.6	82.6	82.6	82.6	82.6	87.5	87.5	87.5	77.8	77.8	72.8
75°	38.8	53.4	43.8	38.8	53.4	53.4	48.6	48.6	43.8	43.8	43.8
77.5°	38.8	29.2	29.2	29.2	29.2	29.2	29.2	29.2	24.2	29.2	24.2
80°	19.4	19.4	19.4	14.6	19.4	19.4	24.2	19.4	19.4	14.6	24.2
82.5°	9.8	9.8	9.8	0.0	4.8	9.8	9.8	4.8	9.8	9.8	4.8
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: P248738

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	10068.9	10064.1	10068.9	10073.7	10068.9	10064.1	10068.9	10073.7	10054.3	10049.5	10059.1
5°	10282.8	10282.8	10292.4	10297.4	10292.4	10282.8	10282.8	10263.4	10248.8	10234.2	10229.4
7.5°	10467.5	10477.3	10486.9	10491.7	10486.9	10477.3	10467.5	10438.3	10409.1	10384.9	10365.4
10°	10579.4	10594.0	10613.4	10623.0	10613.4	10594.0	10579.4	10545.3	10506.3	10467.5	10438.3
12.5°	10628.0	10642.6	10666.8	10662.0	10666.8	10642.6	10628.0	10579.4	10535.5	10482.1	10438.3
15°	10594.0	10613.4	10637.6	10647.4	10637.6	10613.4	10594.0	10545.3	10506.3	10448.1	10404.3
17.5°	10486.9	10516.1	10530.7	10545.3	10530.7	10516.1	10486.9	10448.1	10394.7	10346.0	10302.2
20°	10341.0	10360.6	10380.1	10384.9	10380.1	10360.6	10341.0	10297.4	10214.8	10204.9	10170.9
22.5°	10132.1	10146.7	10190.3	10175.7	10190.3	10146.7	10132.1	10093.1	10064.1	10010.4	9976.4
25°	9830.5	9845.1	9850.1	9854.9	9850.1	9845.1	9830.5	9796.5	9767.5	9728.5	9709.1
27.5°	9310.4	9310.4	9320.0	9325.0	9320.0	9310.4	9310.4	9286.0	9266.6	9247.2	9227.8
30°	8522.8	8522.8	8522.8	8547.2	8522.8	8522.8	8522.8	8518.0	8518.0	8522.8	8522.8
32.5°	7613.6	7603.8	7594.2	7603.8	7594.2	7603.8	7613.6	7618.4	7613.6	7628.2	7652.5
35°	6582.8	6578.0	6592.6	6573.2	6592.6	6578.0	6582.8	6582.8	6602.4	6621.9	6626.7
37.5°	5595.9	5586.3	5605.7	5586.3	5605.7	5586.3	5595.9	5591.1	5586.3	5595.9	5581.5
40°	4657.7	4667.3	4667.3	4706.3	4667.3	4667.3	4657.7	4647.9	4613.9	4594.5	4575.1
42.5°	3758.2	3787.4	3777.6	3806.8	3777.6	3787.4	3758.2	3738.8	3699.8	3665.7	3636.7
45°	2907.3	2926.9	2926.9	2936.5	2926.9	2926.9	2907.3	2887.9	2853.9	2824.6	2805.2
47.5°	2231.5	2231.5	2231.5	2236.5	2231.5	2231.5	2231.5	2197.5	2187.9	2168.5	2144.1
50°	1696.8	1701.6	1706.6	1711.4	1706.6	1701.6	1696.8	1687.0	1682.2	1672.4	1667.6
52.5°	1303.0	1307.8	1298.2	1307.8	1298.2	1307.8	1303.0	1307.8	1293.2	1293.2	1288.4
55°	987.0	982.2	987.0	991.8	987.0	982.2	987.0	987.0	982.2	982.2	982.2
57.5°	724.4	714.6	714.6	714.6	714.6	714.6	724.4	719.6	734.2	724.4	729.2
60°	539.7	544.5	544.5	549.3	544.5	544.5	539.7	549.3	549.3	554.3	554.3
62.5°	398.6	413.2	403.4	413.2	403.4	413.2	398.6	403.4	403.4	408.4	413.2
65°	257.8	257.8	257.8	262.6	257.8	257.8	257.8	262.6	267.4	262.6	277.2
67.5°	175.1	179.9	189.7	184.7	189.7	179.9	175.1	179.9	179.9	194.5	189.7
70°	141.1	126.5	126.5	141.1	126.5	126.5	141.1	131.3	126.5	136.1	131.3
72.5°	82.6	72.8	82.6	82.6	82.6	72.8	82.6	72.8	77.8	77.8	87.5
75°	43.8	38.8	34.0	48.6	34.0	38.8	43.8	43.8	43.8	43.8	48.6
77.5°	29.2	24.2	34.0	34.0	34.0	24.2	29.2	24.2	29.2	24.2	29.2
80°	14.6	19.4	14.6	24.2	14.6	19.4	14.6	24.2	14.6	19.4	19.4
82.5°	4.8	9.8	9.8	9.8	9.8	9.8	4.8	4.8	9.8	9.8	4.8
85°	0.0	9.8	4.8	4.8	4.8	9.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.0	0.0	4.8	0.0	0.0	4.8	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: P248738

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	10059.1	10044.5	10049.5	10020.2	10020.2	10010.4	10015.4	9991.0	9981.4	9971.6	9986.2
5°	10204.9	10180.7	10161.1	10117.5	10093.1	10064.1	10049.5	10010.4	9976.4	9947.2	9942.4
7.5°	10321.6	10268.2	10234.2	10175.7	10132.1	10098.1	10049.5	9995.8	9952.2	9913.2	9884.2
10°	10370.2	10316.8	10263.4	10190.3	10141.7	10078.5	10029.8	9961.8	9903.6	9850.1	9815.9
12.5°	10375.0	10307.0	10258.4	10175.7	10112.5	10044.5	9991.0	9913.2	9845.1	9791.7	9738.3
15°	10331.4	10268.2	10209.8	10122.3	10059.1	9995.8	9932.8	9850.1	9786.9	9723.7	9684.8
17.5°	10234.2	10175.7	10107.7	10025.0	9966.8	9908.4	9840.3	9772.3	9699.3	9631.2	9582.6
20°	10107.7	10044.5	9986.2	9903.6	9854.9	9791.7	9728.5	9655.6	9597.2	9529.2	9475.7
22.5°	9918.2	9859.7	9806.3	9757.7	9679.8	9631.2	9587.6	9504.9	9446.5	9383.3	9325.0
25°	9645.8	9587.6	9543.8	9485.3	9451.3	9397.9	9354.1	9281.2	9227.8	9169.3	9120.7
27.5°	9198.6	9164.5	9140.1	9106.1	9077.1	9052.7	9028.5	8970.0	8931.2	8877.8	8829.1
30°	8527.6	8522.8	8508.2	8493.6	8513.0	8513.0	8513.0	8503.4	8469.3	8430.3	8396.3
32.5°	7667.1	7676.9	7696.3	7710.9	7749.7	7793.5	7832.4	7851.8	7851.8	7827.6	7813.0
35°	6641.3	6655.9	6685.1	6723.9	6772.5	6826.0	6913.4	6933.0	6947.5	6947.5	6928.0
37.5°	5576.5	5571.6	5600.9	5634.9	5664.1	5702.9	5766.2	5780.8	5805.0	5795.4	5775.8
40°	4540.8	4516.6	4506.8	4516.6	4550.7	4536.0	4550.7	4540.8	4540.8	4506.8	4506.8
42.5°	3583.1	3554.1	3534.5	3520.1	3520.1	3485.8	3461.6	3437.4	3422.8	3398.4	3393.6
45°	2761.6	2727.4	2703.2	2693.4	2679.0	2635.1	2605.9	2576.7	2542.7	2533.1	2537.9
47.5°	2144.1	2110.0	2100.2	2076.0	2051.6	2027.4	2008.0	1974.0	1968.9	1949.5	1968.9
50°	1653.0	1643.4	1628.7	1618.9	1604.3	1584.9	1565.5	1546.1	1536.3	1536.3	1541.1
52.5°	1283.5	1288.4	1273.7	1259.1	1249.5	1249.5	1225.1	1220.3	1220.3	1200.9	1220.3
55°	982.2	977.2	982.2	972.4	972.4	957.8	957.8	943.1	943.1	928.5	938.3
57.5°	719.6	729.2	719.6	724.4	734.2	719.6	714.6	700.0	709.8	700.0	705.0
60°	559.1	559.1	559.1	554.3	554.3	549.3	549.3	544.5	544.5	534.7	544.5
62.5°	413.2	418.0	418.0	418.0	423.0	418.0	413.2	418.0	413.2	413.2	418.0
65°	272.4	277.2	277.2	272.4	282.0	272.4	277.2	282.0	286.8	282.0	286.8
67.5°	184.7	184.7	189.7	194.5	189.7	194.5	199.3	194.5	199.3	209.1	199.3
70°	136.1	141.1	141.1	136.1	131.3	136.1	131.3	145.9	145.9	145.9	155.5
72.5°	87.5	87.5	82.6	82.6	82.6	82.6	82.6	97.3	87.5	82.6	92.5
75°	48.6	53.4	53.4	38.8	43.8	53.4	38.8	43.8	58.4	48.6	58.4
77.5°	29.2	29.2	29.2	29.2	29.2	29.2	38.8	34.0	34.0	34.0	38.8
80°	24.2	19.4	19.4	14.6	19.4	19.4	19.4	29.2	24.2	24.2	29.2
82.5°	9.8	9.8	4.8	0.0	9.8	9.8	9.8	9.8	9.8	9.8	19.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	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: P248738

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	9947.2	9947.2	9942.4	9932.8	9913.2	9913.2	9908.4	9893.8	9884.2	9879.2	9879.2
5°	9898.6	9879.2	9859.7	9806.3	9806.3	9796.5	9767.5	9747.9	9738.3	9713.9	9704.3
7.5°	9854.9	9796.5	9762.5	9728.5	9684.8	9665.2	9631.2	9616.6	9582.6	9558.4	9543.8
10°	9747.9	9709.1	9665.2	9611.8	9577.8	9539.0	9499.9	9470.9	9427.1	9402.7	9383.3
12.5°	9675.0	9616.6	9577.8	9519.4	9461.1	9427.1	9373.7	9339.6	9295.8	9247.2	9218.0
15°	9607.0	9543.8	9490.3	9427.1	9363.9	9325.0	9261.8	9223.0	9159.7	9111.1	9077.1
17.5°	9504.9	9451.3	9393.1	9315.2	9257.0	9208.4	9140.1	9091.7	9033.3	8970.0	8936.0
20°	9397.9	9334.6	9276.4	9198.6	9140.1	9081.9	9013.9	8960.4	8892.2	8834.0	8795.1
22.5°	9257.0	9184.0	9135.3	9057.5	8989.4	8926.4	8863.2	8799.9	8736.7	8688.1	8644.2
25°	9052.7	8974.8	8921.4	8858.2	8795.1	8746.5	8668.7	8629.8	8566.6	8522.8	8478.9
27.5°	8760.9	8702.7	8654.0	8590.8	8537.4	8498.6	8440.1	8401.3	8347.7	8308.8	8274.8
30°	8333.3	8284.6	8240.8	8177.6	8138.7	8104.7	8051.1	8017.1	7978.3	7934.4	7924.8
32.5°	7759.5	7720.5	7676.9	7633.1	7603.8	7584.4	7540.6	7521.2	7482.4	7457.9	7433.7
35°	6894.0	6860.0	6835.8	6816.4	6806.6	6811.4	6801.8	6821.2	6830.8	6826.0	6830.8
37.5°	5761.4	5741.7	5751.6	5766.2	5814.8	5878.0	5936.3	6023.7	6082.1	6140.6	6194.0
40°	4497.2	4511.8	4550.7	4638.1	4764.6	4905.7	5036.9	5202.2	5367.5	5484.2	5591.1
42.5°	3393.6	3437.4	3534.5	3660.9	3850.6	4059.6	4263.9	4506.8	4706.3	4900.7	5036.9
45°	2552.5	2610.7	2737.2	2912.3	3121.2	3364.4	3622.1	3894.3	4132.6	4331.9	4482.6
47.5°	1988.6	2042.0	2168.5	2353.2	2610.7	2863.7	3131.0	3413.0	3660.9	3855.4	3986.7
50°	1570.3	1638.4	1750.2	1944.7	2202.5	2469.8	2747.0	3024.0	3257.5	3422.8	3539.5
52.5°	1234.9	1298.2	1405.0	1609.3	1871.9	2139.2	2396.8	2669.2	2873.3	3033.8	3111.6
55°	957.8	1016.2	1127.9	1298.2	1546.1	1808.7	2066.2	2299.7	2489.3	2605.9	2679.0
57.5°	729.2	773.1	850.9	1021.0	1244.7	1487.7	1706.6	1939.9	2085.8	2168.5	2216.9
60°	554.3	588.3	671.0	802.3	1006.4	1215.5	1400.2	1575.3	1692.0	1760.0	1808.7
62.5°	418.0	457.1	515.3	627.2	782.7	953.0	1108.4	1239.7	1337.0	1380.8	1414.8
65°	286.8	316.0	359.8	447.3	578.5	700.0	821.7	918.9	982.2	1030.8	1050.2
67.5°	213.9	233.3	257.8	325.8	418.0	515.3	597.9	666.0	734.2	753.6	787.7
70°	160.5	175.1	199.3	247.9	301.4	369.4	437.7	476.5	525.1	559.1	568.9
72.5°	102.1	106.9	131.3	160.5	204.1	247.9	291.8	325.8	355.0	374.4	384.0
75°	58.4	87.5	87.5	116.7	145.9	165.3	194.5	218.7	233.3	247.9	247.9
77.5°	38.8	53.4	58.4	72.8	87.5	111.9	136.1	150.7	165.3	170.1	170.1
80°	34.0	38.8	38.8	53.4	63.2	82.6	97.3	102.1	111.9	116.7	126.5
82.5°	14.6	19.4	24.2	38.8	43.8	43.8	58.4	63.2	72.8	77.8	77.8
85°	4.8	9.8	9.8	14.6	24.2	29.2	34.0	38.8	43.8	43.8	48.6
87.5°	4.8	4.8	0.0	4.8	9.8	9.8	19.4	19.4	19.4	29.2	29.2
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: P248738

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0	9957.0
2.5°	9869.6	9874.4	9854.9	9850.1	9840.3	9845.1	9854.9
5°	9689.6	9694.5	9675.0	9655.6	9655.6	9650.6	9655.6
7.5°	9519.4	9524.4	9495.1	9485.3	9465.9	9470.9	9470.9
10°	9349.3	9349.3	9305.6	9300.6	9286.0	9281.2	9281.2
12.5°	9184.0	9169.3	9135.3	9115.9	9125.7	9096.5	9096.5
15°	9038.1	9013.9	8970.0	8955.4	8931.2	8921.4	8921.4
17.5°	8887.4	8868.0	8829.1	8799.9	8770.7	8765.9	8770.7
20°	8741.5	8722.1	8673.5	8654.0	8629.8	8629.8	8620.0
22.5°	8595.6	8576.2	8532.6	8518.0	8483.9	8483.9	8488.7
25°	8444.9	8430.3	8381.7	8372.1	8367.3	8347.7	8357.5
27.5°	8240.8	8231.0	8192.2	8177.6	8158.2	8153.4	8163.0
30°	7866.4	7851.8	7822.8	7808.2	7774.1	7778.9	7788.5
32.5°	7399.7	7380.3	7341.3	7326.7	7297.7	7287.8	7292.7
35°	6816.4	6801.8	6767.7	6767.7	6738.5	6728.7	6738.5
37.5°	6223.2	6237.6	6223.2	6237.6	6223.2	6218.2	6223.2
40°	5664.1	5717.5	5727.1	5780.8	5761.4	5790.4	5785.6
42.5°	5129.2	5216.6	5250.9	5294.5	5284.9	5304.3	5318.9
45°	4589.5	4662.5	4696.5	4725.8	4730.6	4740.4	4745.2
47.5°	4079.0	4137.4	4142.2	4176.2	4171.4	4171.4	4186.0
50°	3602.7	3641.5	3651.1	3675.5	3656.1	3646.3	3651.1
52.5°	3160.2	3199.1	3189.3	3199.1	3174.9	3165.0	3169.8
55°	2708.0	2727.4	2727.4	2727.4	2698.4	2698.4	2698.4
57.5°	2246.1	2251.1	2241.3	2246.1	2241.3	2212.1	2207.3
60°	1823.3	1823.3	1818.3	1823.3	1808.7	1794.0	1794.0
62.5°	1424.4	1434.2	1453.6	1434.2	1424.4	1434.2	1419.6
65°	1064.8	1084.2	1079.2	1089.0	1084.2	1084.2	1074.4
67.5°	802.3	807.1	811.9	816.9	816.9	816.9	816.9
70°	588.3	603.0	597.9	597.9	597.9	597.9	627.2
72.5°	393.8	413.2	408.4	418.0	418.0	427.8	418.0
75°	267.4	286.8	277.2	291.8	286.8	277.2	301.4
77.5°	179.9	189.7	194.5	199.3	194.5	189.7	194.5
80°	126.5	136.1	131.3	136.1	136.1	136.1	141.1
82.5°	77.8	92.5	87.5	92.5	87.5	92.5	92.5
85°	53.4	58.4	48.6	58.4	53.4	53.4	63.2
87.5°	34.0	29.2	29.2	34.0	29.2	34.0	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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