

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: P248990

Luminaire Tested: **LD8B175D010 ER8B175830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248990
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 ER8B175830 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17459.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

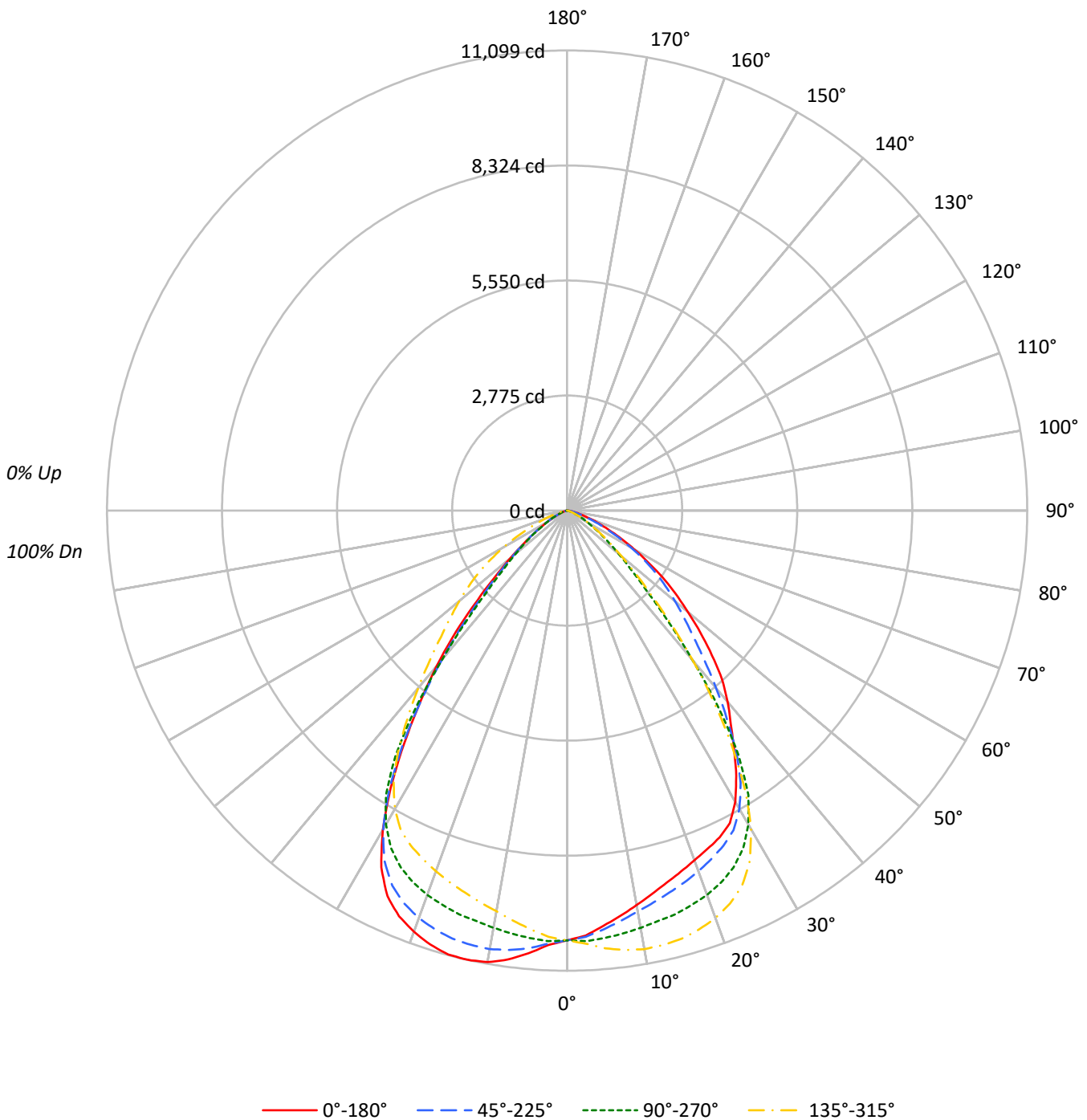
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	319615	319615	319615	319615
5°	311123	320363	331803	320363
10°	302518	319946	346251	319946
15°	296473	321843	353831	321843
20°	294455	323687	354740	323687
25°	296003	323035	349040	323035
30°	288685	311210	316804	311210
35°	264055	271482	257580	271482
40°	242433	188847	197208	188847
45°	215407	115207	133304	115207
50°	182330	76958	85464	76958
55°	151011	52514	55503	52514
60°	115174	34956	35264	34956
65°	81604	21780	19941	21780
70°	58865	14597	13244	14597
75°	37375	7244	6029	7244
80°	26086	5398	4475	5398
85°	23281	0	1769	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.5	5.7
10°-20°	2856.8	16.4
20°-30°	4325.9	24.8
30°-40°	4335.6	24.8
40°-50°	2722.5	15.6
50°-60°	1450.8	8.3
60°-70°	596.6	3.4
70°-80°	157.6	0.9
80°-90°	26.6	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°	8169.2	46.8
0°-40°	12504.8	71.6
0°-60°	16678.1	95.5
0°-90°	17459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17459.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10365	10365	10365	10365	10365	
5°	10051	10350	10719	10350	10051	948
15°	9287	10082	11084	10082	9287	2627
25°	8700	9494	10259	9494	8700	3990
35°	7014	7212	6842	7212	7014	4395
45°	4940	2642	3057	2642	4940	3799
55°	2809	977	1032	977	2809	2504
65°	1118	298	273	298	1118	1160
75°	314	61	51	61	314	355
85°	66	0	5	0	66	72
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°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10258.6	10248.4	10243.4	10253.6	10258.6	10278.8	10273.8	10283.8	10283.8	10289.0	10299.0
5°	10051.1	10045.9	10051.1	10051.1	10071.3	10091.5	10086.5	10101.8	10111.8	10137.2	10147.2
7.5°	9858.9	9858.9	9853.7	9873.9	9884.1	9914.5	9909.3	9934.7	9949.9	9975.1	10010.5
10°	9661.4	9661.4	9666.4	9681.6	9686.8	9732.2	9732.2	9767.6	9787.8	9813.2	9858.9
12.5°	9469.1	9469.1	9499.5	9489.3	9509.5	9544.9	9560.1	9595.6	9626.0	9676.6	9722.2
15°	9286.8	9286.8	9297.0	9322.2	9337.5	9383.1	9408.3	9448.9	9484.3	9534.9	9600.8
17.5°	9130.0	9125.0	9130.0	9160.4	9190.8	9231.2	9251.4	9302.0	9337.5	9403.3	9464.1
20°	8973.1	8983.3	8983.3	9008.5	9028.7	9079.4	9099.6	9155.4	9195.8	9256.4	9327.5
22.5°	8836.5	8831.5	8831.5	8866.9	8882.1	8927.5	8947.7	8998.3	9043.9	9094.6	9160.4
25°	8699.8	8689.6	8710.0	8715.0	8725.0	8775.6	8790.8	8826.3	8871.9	8917.5	8983.3
27.5°	8497.3	8487.3	8492.3	8512.5	8527.7	8568.1	8578.4	8613.8	8649.2	8689.6	8745.4
30°	8107.6	8097.6	8092.6	8128.0	8143.2	8173.4	8188.6	8249.4	8259.4	8305.0	8345.5
32.5°	7591.4	7586.4	7596.6	7626.8	7642.0	7682.6	7702.8	7738.2	7763.4	7788.8	7829.3
35°	7014.5	7004.3	7014.5	7045.0	7045.0	7080.4	7095.6	7110.6	7105.6	7110.6	7100.6
37.5°	6478.1	6472.9	6478.1	6493.1	6478.1	6493.1	6478.1	6447.7	6392.1	6331.3	6270.5
40°	6022.6	6027.6	5997.4	6017.6	5961.7	5951.7	5896.1	5820.1	5708.8	5587.4	5415.3
42.5°	5536.8	5521.6	5501.4	5511.4	5465.9	5430.3	5339.3	5243.3	5101.4	4899.1	4691.4
45°	4939.5	4934.5	4924.3	4919.3	4888.9	4853.5	4777.5	4666.2	4509.4	4301.9	4053.8
47.5°	4357.5	4342.3	4342.3	4347.3	4311.9	4306.9	4246.1	4150.0	4013.4	3810.9	3552.8
50°	3800.7	3795.7	3805.9	3826.1	3800.7	3790.7	3750.3	3684.4	3563.0	3390.9	3147.8
52.5°	3299.7	3294.7	3304.9	3330.1	3319.9	3330.1	3289.7	3239.1	3158.0	2991.0	2778.5
55°	2808.9	2808.9	2808.9	2839.1	2839.1	2839.1	2818.9	2788.7	2712.7	2591.2	2393.9
57.5°	2297.7	2302.7	2333.1	2338.1	2333.1	2343.3	2338.1	2307.7	2257.3	2171.3	2019.4
60°	1867.5	1867.5	1882.7	1897.9	1892.7	1897.9	1897.9	1882.7	1832.1	1761.3	1639.8
62.5°	1477.8	1493.0	1482.8	1493.0	1513.2	1493.0	1482.8	1472.8	1437.4	1391.7	1290.5
65°	1118.4	1128.6	1128.6	1133.6	1123.4	1128.6	1108.4	1093.2	1073.0	1022.4	956.6
67.5°	850.3	850.3	850.3	850.3	845.1	840.1	835.1	819.9	784.5	764.3	693.3
70°	652.9	622.4	622.4	622.4	622.4	627.6	612.4	592.2	582.0	546.6	496.0
72.5°	435.2	445.4	435.2	435.2	425.2	430.2	410.0	399.8	389.8	369.5	339.1
75°	313.7	288.5	298.5	303.7	288.5	298.5	278.3	258.1	258.1	242.9	227.7
77.5°	202.5	197.5	202.5	207.5	202.5	197.5	187.3	177.1	177.1	172.1	156.9
80°	146.9	141.7	141.7	141.7	136.7	141.7	131.7	131.7	121.4	116.4	106.2
82.5°	96.2	96.2	91.0	96.2	91.0	96.2	81.0	81.0	81.0	75.8	65.8
85°	65.8	55.6	55.6	60.8	50.6	60.8	55.6	50.6	45.6	45.6	40.4
87.5°	30.4	35.4	30.4	35.4	30.4	30.4	35.4	30.4	30.4	20.2	20.2
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°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10314.2	10319.2	10319.2	10339.6	10349.6	10354.6	10354.6	10395.3	10380.1	10390.3	10400.3
5°	10167.6	10197.8	10208.0	10208.0	10263.6	10283.8	10304.0	10349.6	10354.6	10385.1	10420.5
7.5°	10025.7	10061.1	10081.5	10127.0	10162.4	10197.8	10258.6	10289.0	10319.2	10359.9	10405.3
10°	9889.1	9929.7	9970.1	10005.5	10061.1	10106.8	10147.2	10218.0	10253.6	10309.2	10369.9
12.5°	9757.6	9813.2	9848.7	9909.3	9970.1	10010.5	10071.3	10137.2	10192.8	10248.4	10319.2
15°	9641.2	9707.0	9747.4	9813.2	9879.1	9934.7	10000.5	10081.5	10122.0	10187.8	10253.6
17.5°	9514.5	9585.6	9636.2	9696.8	9777.8	9838.4	9894.3	9975.1	10025.7	10096.5	10172.6
20°	9383.1	9453.9	9514.5	9575.3	9656.4	9717.0	9782.8	9863.9	9919.5	9990.3	10051.1
22.5°	9226.2	9292.0	9357.7	9428.5	9509.5	9560.1	9636.2	9707.0	9767.6	9833.4	9894.3
25°	9023.7	9104.8	9155.4	9221.0	9286.8	9342.5	9423.5	9494.3	9544.9	9605.8	9661.4
27.5°	8785.8	8846.7	8887.1	8942.7	9008.5	9059.1	9119.8	9190.8	9241.4	9297.0	9337.5
30°	8380.9	8436.7	8472.1	8512.5	8578.4	8624.0	8674.6	8740.2	8775.6	8816.3	8851.7
32.5°	7849.5	7895.1	7915.3	7945.7	7991.3	8036.7	8077.4	8133.0	8148.2	8173.4	8173.4
35°	7080.4	7090.4	7085.4	7095.6	7115.8	7141.0	7176.4	7211.8	7232.0	7232.0	7217.0
37.5°	6179.4	6118.8	6053.0	6002.4	5987.1	5976.9	5997.4	6012.3	6032.8	6042.8	6017.6
40°	5243.3	5106.6	4959.7	4828.1	4737.1	4696.6	4681.4	4691.4	4691.4	4726.8	4726.8
42.5°	4438.5	4225.9	4008.4	3810.9	3679.2	3578.2	3532.6	3532.6	3537.6	3563.0	3578.2
45°	3770.5	3502.2	3249.1	3031.6	2849.3	2717.7	2657.0	2641.8	2636.8	2646.8	2682.2
47.5°	3259.3	2981.0	2717.7	2449.6	2257.3	2125.6	2070.0	2049.6	2029.4	2049.6	2054.8
50°	2859.5	2571.0	2292.7	2024.4	1821.9	1705.5	1634.6	1604.2	1599.2	1599.2	1609.4
52.5°	2495.0	2226.9	1948.6	1675.3	1462.6	1351.3	1285.5	1270.3	1250.1	1270.3	1270.3
55°	2150.8	1882.7	1609.4	1351.3	1174.1	1057.8	997.0	976.8	966.6	981.8	981.8
57.5°	1776.5	1548.6	1295.7	1062.8	885.7	804.7	759.1	733.9	728.7	738.9	728.7
60°	1457.6	1265.3	1047.6	835.1	698.5	612.4	577.0	566.8	556.6	566.8	566.8
62.5°	1153.8	992.0	814.7	652.9	536.4	475.8	435.2	435.2	430.2	430.2	435.2
65°	855.3	728.7	602.2	465.6	374.5	328.9	298.5	298.5	293.5	298.5	293.5
67.5°	622.4	536.4	435.2	339.1	268.3	242.9	222.7	207.5	217.7	207.5	202.5
70°	455.6	384.5	313.7	258.1	207.5	182.3	167.1	161.9	151.9	151.9	151.9
72.5°	303.7	258.1	212.5	167.1	136.7	111.2	106.2	96.2	86.0	91.0	101.2
75°	202.5	172.1	151.9	121.4	91.0	91.0	60.8	60.8	50.6	60.8	45.6
77.5°	141.7	116.4	91.0	75.8	60.8	55.6	40.4	40.4	35.4	35.4	35.4
80°	101.2	86.0	65.8	55.6	40.4	40.4	35.4	30.4	25.2	25.2	30.4
82.5°	60.8	45.6	45.6	40.4	25.2	20.2	15.2	20.2	10.2	10.2	10.2
85°	35.4	30.4	25.2	15.2	10.2	10.2	5.0	0.0	5.0	5.0	0.0
87.5°	20.2	10.2	10.2	5.0	0.0	5.0	5.0	0.0	0.0	0.0	10.2
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°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10425.7	10420.5	10430.7	10430.7	10461.1	10455.9	10471.1	10471.1	10461.1	10466.1	10486.3
5°	10461.1	10476.3	10506.5	10531.9	10577.3	10597.8	10623.0	10648.4	10653.4	10668.6	10683.8
7.5°	10461.1	10511.7	10547.1	10592.5	10653.4	10688.8	10744.4	10790.0	10810.2	10835.4	10865.8
10°	10440.7	10491.3	10557.1	10607.7	10683.8	10739.4	10795.0	10865.8	10896.3	10936.7	10977.3
12.5°	10400.3	10455.9	10526.7	10592.5	10678.6	10729.2	10800.0	10865.8	10911.5	10967.1	11012.7
15°	10339.6	10405.3	10471.1	10536.9	10628.0	10688.8	10754.6	10830.4	10876.1	10936.7	10977.3
17.5°	10243.4	10314.2	10375.1	10435.7	10521.7	10592.5	10653.4	10724.2	10769.8	10820.4	10876.1
20°	10127.0	10192.8	10258.6	10309.2	10395.3	10455.9	10521.7	10587.5	10623.0	10633.2	10719.2
22.5°	9980.3	10025.7	10076.3	10157.4	10208.0	10263.6	10324.4	10385.1	10420.5	10476.3	10506.5
25°	9737.2	9782.8	9838.4	9873.9	9934.7	9980.3	10040.9	10106.8	10127.0	10167.6	10197.8
27.5°	9398.3	9423.5	9448.9	9479.1	9514.5	9539.9	9575.3	9605.8	9626.0	9646.2	9666.4
30°	8861.7	8861.7	8861.7	8841.5	8856.7	8871.9	8876.9	8871.9	8871.9	8866.9	8866.9
32.5°	8153.2	8112.8	8067.2	8026.7	8011.5	7991.3	7981.1	7965.9	7940.7	7925.5	7930.5
35°	7196.6	7105.6	7050.0	6999.3	6958.9	6928.5	6913.3	6898.1	6893.1	6872.9	6852.5
37.5°	6002.4	5936.5	5896.1	5865.7	5830.3	5799.9	5804.9	5810.1	5825.1	5815.1	5820.1
40°	4737.1	4721.8	4737.1	4701.6	4691.4	4701.6	4726.8	4762.5	4782.7	4802.9	4838.3
42.5°	3603.4	3628.6	3664.2	3664.2	3679.2	3699.7	3729.9	3785.7	3815.9	3851.3	3891.9
45°	2712.7	2743.1	2788.7	2803.7	2813.9	2839.1	2874.7	2920.1	2940.3	2970.8	3006.2
47.5°	2090.2	2110.4	2135.6	2161.0	2186.3	2196.5	2231.9	2231.9	2257.3	2277.5	2287.5
50°	1629.6	1649.8	1670.1	1685.3	1695.5	1710.7	1720.7	1735.9	1740.9	1751.1	1756.1
52.5°	1275.3	1300.7	1300.7	1310.7	1325.9	1341.1	1336.1	1341.1	1346.1	1346.1	1361.3
55°	997.0	997.0	1012.2	1012.2	1022.4	1017.2	1022.4	1022.4	1022.4	1022.4	1027.4
57.5°	743.9	749.1	764.3	754.1	749.1	759.1	749.1	759.1	754.1	764.3	749.1
60°	571.8	571.8	577.0	577.0	582.0	582.0	582.0	577.0	577.0	571.8	571.8
62.5°	430.2	435.2	440.4	435.2	435.2	435.2	430.2	430.2	425.2	420.0	420.0
65°	288.5	283.5	293.5	283.5	288.5	288.5	283.5	288.5	273.3	278.3	273.3
67.5°	207.5	202.5	197.5	202.5	197.5	192.3	192.3	197.5	202.5	187.3	187.3
70°	136.7	141.7	136.7	141.7	146.9	146.9	141.7	136.7	141.7	131.7	136.7
72.5°	86.0	86.0	86.0	86.0	86.0	91.0	91.0	91.0	81.0	81.0	75.8
75°	40.4	55.6	45.6	40.4	55.6	55.6	50.6	50.6	45.6	45.6	45.6
77.5°	40.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	25.2	30.4	25.2
80°	20.2	20.2	20.2	15.2	20.2	20.2	25.2	20.2	20.2	15.2	25.2
82.5°	10.2	10.2	10.2	0.0	5.0	10.2	10.2	5.0	10.2	10.2	5.0
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: P248990

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10481.3	10476.3	10481.3	10486.3	10481.3	10476.3	10481.3	10486.3	10466.1	10461.1	10471.1
5°	10704.0	10704.0	10714.0	10719.2	10714.0	10704.0	10704.0	10683.8	10668.6	10653.4	10648.4
7.5°	10896.3	10906.5	10916.5	10921.5	10916.5	10906.5	10896.3	10865.8	10835.4	10810.2	10790.0
10°	11012.7	11027.9	11048.1	11058.1	11048.1	11027.9	11012.7	10977.3	10936.7	10896.3	10865.8
12.5°	11063.3	11078.5	11103.7	11098.7	11103.7	11078.5	11063.3	11012.7	10967.1	10911.5	10865.8
15°	11027.9	11048.1	11073.3	11083.5	11073.3	11048.1	11027.9	10977.3	10936.7	10876.1	10830.4
17.5°	10916.5	10946.9	10962.1	10977.3	10962.1	10946.9	10916.5	10876.1	10820.4	10769.8	10724.2
20°	10764.6	10785.0	10805.2	10810.2	10805.2	10785.0	10764.6	10719.2	10633.2	10623.0	10587.5
22.5°	10547.1	10562.3	10607.7	10592.5	10607.7	10562.3	10547.1	10506.5	10476.3	10420.5	10385.1
25°	10233.2	10248.4	10253.6	10258.6	10253.6	10248.4	10233.2	10197.8	10167.6	10127.0	10106.8
27.5°	9691.8	9691.8	9701.8	9707.0	9701.8	9691.8	9691.8	9666.4	9646.2	9626.0	9605.8
30°	8871.9	8871.9	8871.9	8897.3	8871.9	8871.9	8871.9	8866.9	8866.9	8871.9	8871.9
32.5°	7925.5	7915.3	7905.3	7915.3	7905.3	7915.3	7925.5	7930.5	7925.5	7940.7	7965.9
35°	6852.5	6847.5	6862.7	6842.5	6862.7	6847.5	6852.5	6852.5	6872.9	6893.1	6898.1
37.5°	5825.1	5815.1	5835.3	5815.1	5835.3	5815.1	5825.1	5820.1	5815.1	5825.1	5810.1
40°	4848.5	4858.5	4858.5	4899.1	4858.5	4858.5	4848.5	4838.3	4802.9	4782.7	4762.5
42.5°	3912.1	3942.5	3932.3	3962.8	3932.3	3942.5	3912.1	3891.9	3851.3	3815.9	3785.7
45°	3026.4	3046.8	3046.8	3056.8	3046.8	3046.8	3026.4	3006.2	2970.8	2940.3	2920.1
47.5°	2322.9	2322.9	2322.9	2328.1	2322.9	2322.9	2322.9	2287.5	2277.5	2257.3	2231.9
50°	1766.3	1771.3	1776.5	1781.5	1776.5	1771.3	1766.3	1756.1	1751.1	1740.9	1735.9
52.5°	1356.3	1361.3	1351.3	1361.3	1351.3	1361.3	1356.3	1361.3	1346.1	1346.1	1341.1
55°	1027.4	1022.4	1027.4	1032.4	1027.4	1022.4	1027.4	1027.4	1022.4	1022.4	1022.4
57.5°	754.1	743.9	743.9	743.9	743.9	743.9	754.1	749.1	764.3	754.1	759.1
60°	561.8	566.8	566.8	571.8	566.8	566.8	561.8	571.8	571.8	577.0	577.0
62.5°	415.0	430.2	420.0	430.2	420.0	430.2	415.0	420.0	420.0	425.2	430.2
65°	268.3	268.3	268.3	273.3	268.3	268.3	268.3	273.3	278.3	273.3	288.5
67.5°	182.3	187.3	197.5	192.3	197.5	187.3	182.3	187.3	187.3	202.5	197.5
70°	146.9	131.7	131.7	146.9	131.7	131.7	146.9	136.7	131.7	141.7	136.7
72.5°	86.0	75.8	86.0	86.0	86.0	75.8	86.0	75.8	81.0	81.0	91.0
75°	45.6	40.4	35.4	50.6	35.4	40.4	45.6	45.6	45.6	45.6	50.6
77.5°	30.4	25.2	35.4	35.4	35.4	25.2	30.4	25.2	30.4	25.2	30.4
80°	15.2	20.2	15.2	25.2	15.2	20.2	15.2	25.2	15.2	20.2	20.2
82.5°	5.0	10.2	10.2	10.2	10.2	10.2	5.0	5.0	10.2	10.2	5.0
85°	0.0	10.2	5.0	5.0	5.0	10.2	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.0	0.0	5.0	0.0	0.0	5.0	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: P248990

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10471.1	10455.9	10461.1	10430.7	10430.7	10420.5	10425.7	10400.3	10390.3	10380.1	10395.3
5°	10623.0	10597.8	10577.3	10531.9	10506.5	10476.3	10461.1	10420.5	10385.1	10354.6	10349.6
7.5°	10744.4	10688.8	10653.4	10592.5	10547.1	10511.7	10461.1	10405.3	10359.9	10319.2	10289.0
10°	10795.0	10739.4	10683.8	10607.7	10557.1	10491.3	10440.7	10369.9	10309.2	10253.6	10218.0
12.5°	10800.0	10729.2	10678.6	10592.5	10526.7	10455.9	10400.3	10319.2	10248.4	10192.8	10137.2
15°	10754.6	10688.8	10628.0	10536.9	10471.1	10405.3	10339.6	10253.6	10187.8	10122.0	10081.5
17.5°	10653.4	10592.5	10521.7	10435.7	10375.1	10314.2	10243.4	10172.6	10096.5	10025.7	9975.1
20°	10521.7	10455.9	10395.3	10309.2	10258.6	10192.8	10127.0	10051.1	9990.3	9919.5	9863.9
22.5°	10324.4	10263.6	10208.0	10157.4	10076.3	10025.7	9980.3	9894.3	9833.4	9767.6	9707.0
25°	10040.9	9980.3	9934.7	9873.9	9838.4	9782.8	9737.2	9661.4	9605.8	9544.9	9494.3
27.5°	9575.3	9539.9	9514.5	9479.1	9448.9	9423.5	9398.3	9337.5	9297.0	9241.4	9190.8
30°	8876.9	8871.9	8856.7	8841.5	8861.7	8861.7	8861.7	8851.7	8816.3	8775.6	8740.2
32.5°	7981.1	7991.3	8011.5	8026.7	8067.2	8112.8	8153.2	8173.4	8173.4	8148.2	8133.0
35°	6913.3	6928.5	6958.9	6999.3	7050.0	7105.6	7196.6	7217.0	7232.0	7232.0	7211.8
37.5°	5804.9	5799.9	5830.3	5865.7	5896.1	5936.5	6002.4	6017.6	6042.8	6032.8	6012.3
40°	4726.8	4701.6	4691.4	4701.6	4737.1	4721.8	4737.1	4726.8	4726.8	4691.4	4691.4
42.5°	3729.9	3699.7	3679.2	3664.2	3664.2	3628.6	3603.4	3578.2	3563.0	3537.6	3532.6
45°	2874.7	2839.1	2813.9	2803.7	2788.7	2743.1	2712.7	2682.2	2646.8	2636.8	2641.8
47.5°	2231.9	2196.5	2186.3	2161.0	2135.6	2110.4	2090.2	2054.8	2049.6	2029.4	2049.6
50°	1720.7	1710.7	1695.5	1685.3	1670.1	1649.8	1629.6	1609.4	1599.2	1599.2	1604.2
52.5°	1336.1	1341.1	1325.9	1310.7	1300.7	1300.7	1275.3	1270.3	1270.3	1250.1	1270.3
55°	1022.4	1017.2	1022.4	1012.2	1012.2	997.0	997.0	981.8	981.8	966.6	976.8
57.5°	749.1	759.1	749.1	754.1	764.3	749.1	743.9	728.7	738.9	728.7	733.9
60°	582.0	582.0	582.0	577.0	577.0	571.8	571.8	566.8	566.8	556.6	566.8
62.5°	430.2	435.2	435.2	435.2	440.4	435.2	430.2	435.2	430.2	430.2	435.2
65°	283.5	288.5	288.5	283.5	293.5	283.5	288.5	293.5	298.5	293.5	298.5
67.5°	192.3	192.3	197.5	202.5	197.5	202.5	207.5	202.5	207.5	217.7	207.5
70°	141.7	146.9	146.9	141.7	136.7	141.7	136.7	151.9	151.9	151.9	161.9
72.5°	91.0	91.0	86.0	86.0	86.0	86.0	86.0	101.2	91.0	86.0	96.2
75°	50.6	55.6	55.6	40.4	45.6	55.6	40.4	45.6	60.8	50.6	60.8
77.5°	30.4	30.4	30.4	30.4	30.4	30.4	40.4	35.4	35.4	35.4	40.4
80°	25.2	20.2	20.2	15.2	20.2	20.2	20.2	30.4	25.2	25.2	30.4
82.5°	10.2	10.2	5.0	0.0	10.2	10.2	10.2	10.2	10.2	10.2	20.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	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: P248990

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10354.6	10354.6	10349.6	10339.6	10319.2	10319.2	10314.2	10299.0	10289.0	10283.8	10283.8
5°	10304.0	10283.8	10263.6	10208.0	10208.0	10197.8	10167.6	10147.2	10137.2	10111.8	10101.8
7.5°	10258.6	10197.8	10162.4	10127.0	10081.5	10061.1	10025.7	10010.5	9975.1	9949.9	9934.7
10°	10147.2	10106.8	10061.1	10005.5	9970.1	9929.7	9889.1	9858.9	9813.2	9787.8	9767.6
12.5°	10071.3	10010.5	9970.1	9909.3	9848.7	9813.2	9757.6	9722.2	9676.6	9626.0	9595.6
15°	10000.5	9934.7	9879.1	9813.2	9747.4	9707.0	9641.2	9600.8	9534.9	9484.3	9448.9
17.5°	9894.3	9838.4	9777.8	9696.8	9636.2	9585.6	9514.5	9464.1	9403.3	9337.5	9302.0
20°	9782.8	9717.0	9656.4	9575.3	9514.5	9453.9	9383.1	9327.5	9256.4	9195.8	9155.4
22.5°	9636.2	9560.1	9509.5	9428.5	9357.7	9292.0	9226.2	9160.4	9094.6	9043.9	8998.3
25°	9423.5	9342.5	9286.8	9221.0	9155.4	9104.8	9023.7	8983.3	8917.5	8871.9	8826.3
27.5°	9119.8	9059.1	9008.5	8942.7	8887.1	8846.7	8785.8	8745.4	8689.6	8649.2	8613.8
30°	8674.6	8624.0	8578.4	8512.5	8472.1	8436.7	8380.9	8345.5	8305.0	8259.4	8249.4
32.5°	8077.4	8036.7	7991.3	7945.7	7915.3	7895.1	7849.5	7829.3	7788.8	7763.4	7738.2
35°	7176.4	7141.0	7115.8	7095.6	7085.4	7090.4	7080.4	7100.6	7110.6	7105.6	7110.6
37.5°	5997.4	5976.9	5987.1	6002.4	6053.0	6118.8	6179.4	6270.5	6331.3	6392.1	6447.7
40°	4681.4	4696.6	4737.1	4828.1	4959.7	5106.6	5243.3	5415.3	5587.4	5708.8	5820.1
42.5°	3532.6	3578.2	3679.2	3810.9	4008.4	4225.9	4438.5	4691.4	4899.1	5101.4	5243.3
45°	2657.0	2717.7	2849.3	3031.6	3249.1	3502.2	3770.5	4053.8	4301.9	4509.4	4666.2
47.5°	2070.0	2125.6	2257.3	2449.6	2717.7	2981.0	3259.3	3552.8	3810.9	4013.4	4150.0
50°	1634.6	1705.5	1821.9	2024.4	2292.7	2571.0	2859.5	3147.8	3390.9	3563.0	3684.4
52.5°	1285.5	1351.3	1462.6	1675.3	1948.6	2226.9	2495.0	2778.5	2991.0	3158.0	3239.1
55°	997.0	1057.8	1174.1	1351.3	1609.4	1882.7	2150.8	2393.9	2591.2	2712.7	2788.7
57.5°	759.1	804.7	885.7	1062.8	1295.7	1548.6	1776.5	2019.4	2171.3	2257.3	2307.7
60°	577.0	612.4	698.5	835.1	1047.6	1265.3	1457.6	1639.8	1761.3	1832.1	1882.7
62.5°	435.2	475.8	536.4	652.9	814.7	992.0	1153.8	1290.5	1391.7	1437.4	1472.8
65°	298.5	328.9	374.5	465.6	602.2	728.7	855.3	956.6	1022.4	1073.0	1093.2
67.5°	222.7	242.9	268.3	339.1	435.2	536.4	622.4	693.3	764.3	784.5	819.9
70°	167.1	182.3	207.5	258.1	313.7	384.5	455.6	496.0	546.6	582.0	592.2
72.5°	106.2	111.2	136.7	167.1	212.5	258.1	303.7	339.1	369.5	389.8	399.8
75°	60.8	91.0	91.0	121.4	151.9	172.1	202.5	227.7	242.9	258.1	258.1
77.5°	40.4	55.6	60.8	75.8	91.0	116.4	141.7	156.9	172.1	177.1	177.1
80°	35.4	40.4	40.4	55.6	65.8	86.0	101.2	106.2	116.4	121.4	131.7
82.5°	15.2	20.2	25.2	40.4	45.6	45.6	60.8	65.8	75.8	81.0	81.0
85°	5.0	10.2	10.2	15.2	25.2	30.4	35.4	40.4	45.6	45.6	50.6
87.5°	5.0	5.0	0.0	5.0	10.2	10.2	20.2	20.2	20.2	30.4	30.4
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: P248990

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9	10364.9
2.5°	10273.8	10278.8	10258.6	10253.6	10243.4	10248.4	10258.6
5°	10086.5	10091.5	10071.3	10051.1	10051.1	10045.9	10051.1
7.5°	9909.3	9914.5	9884.1	9873.9	9853.7	9858.9	9858.9
10°	9732.2	9732.2	9686.8	9681.6	9666.4	9661.4	9661.4
12.5°	9560.1	9544.9	9509.5	9489.3	9499.5	9469.1	9469.1
15°	9408.3	9383.1	9337.5	9322.2	9297.0	9286.8	9286.8
17.5°	9251.4	9231.2	9190.8	9160.4	9130.0	9125.0	9130.0
20°	9099.6	9079.4	9028.7	9008.5	8983.3	8983.3	8973.1
22.5°	8947.7	8927.5	8882.1	8866.9	8831.5	8831.5	8836.5
25°	8790.8	8775.6	8725.0	8715.0	8710.0	8689.6	8699.8
27.5°	8578.4	8568.1	8527.7	8512.5	8492.3	8487.3	8497.3
30°	8188.6	8173.4	8143.2	8128.0	8092.6	8097.6	8107.6
32.5°	7702.8	7682.6	7642.0	7626.8	7596.6	7586.4	7591.4
35°	7095.6	7080.4	7045.0	7045.0	7014.5	7004.3	7014.5
37.5°	6478.1	6493.1	6478.1	6493.1	6478.1	6472.9	6478.1
40°	5896.1	5951.7	5961.7	6017.6	5997.4	6027.6	6022.6
42.5°	5339.3	5430.3	5465.9	5511.4	5501.4	5521.6	5536.8
45°	4777.5	4853.5	4888.9	4919.3	4924.3	4934.5	4939.5
47.5°	4246.1	4306.9	4311.9	4347.3	4342.3	4342.3	4357.5
50°	3750.3	3790.7	3800.7	3826.1	3805.9	3795.7	3800.7
52.5°	3289.7	3330.1	3319.9	3330.1	3304.9	3294.7	3299.7
55°	2818.9	2839.1	2839.1	2839.1	2808.9	2808.9	2808.9
57.5°	2338.1	2343.3	2333.1	2338.1	2333.1	2302.7	2297.7
60°	1897.9	1897.9	1892.7	1897.9	1882.7	1867.5	1867.5
62.5°	1482.8	1493.0	1513.2	1493.0	1482.8	1493.0	1477.8
65°	1108.4	1128.6	1123.4	1133.6	1128.6	1128.6	1118.4
67.5°	835.1	840.1	845.1	850.3	850.3	850.3	850.3
70°	612.4	627.6	622.4	622.4	622.4	622.4	652.9
72.5°	410.0	430.2	425.2	435.2	435.2	445.4	435.2
75°	278.3	298.5	288.5	303.7	298.5	288.5	313.7
77.5°	187.3	197.5	202.5	207.5	202.5	197.5	202.5
80°	131.7	141.7	136.7	141.7	141.7	141.7	146.9
82.5°	81.0	96.2	91.0	96.2	91.0	96.2	96.2
85°	55.6	60.8	50.6	60.8	55.6	55.6	65.8
87.5°	35.4	30.4	30.4	35.4	30.4	35.4	30.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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