

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: P248721

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248721  
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: LD8B200D010 ER8B200935 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18283.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 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

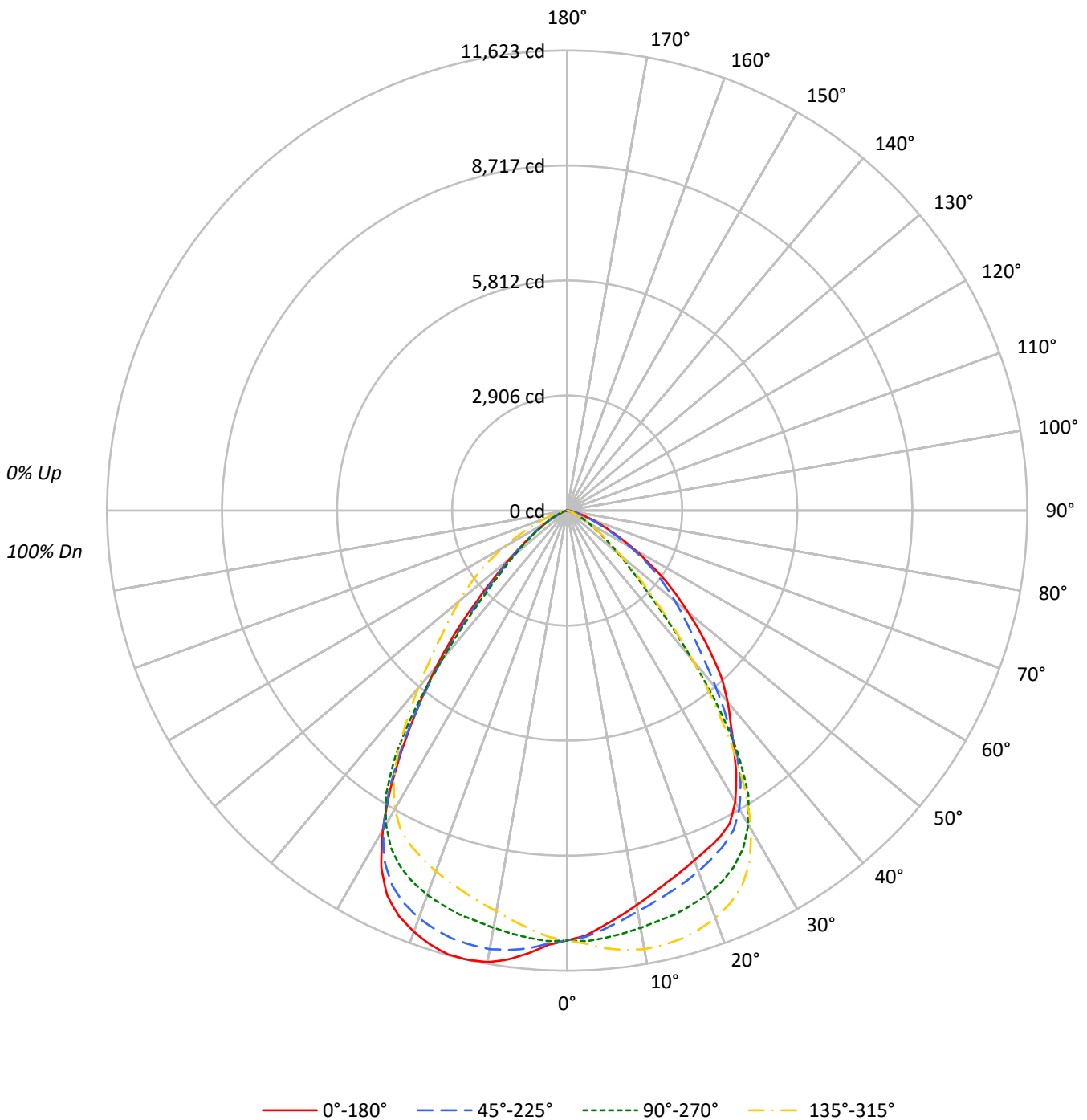
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	334697	334697	334697	334697
5°	325807	335484	347463	335484
10°	316796	335045	362593	335045
15°	310465	337036	370530	337036
20°	308352	338963	371483	338963
25°	309973	338281	365514	338281
30°	302308	325898	331755	325898
35°	276519	284296	269736	284296
40°	253874	197764	206515	197764
45°	225577	120645	139597	120645
50°	190936	80589	89498	80589
55°	158139	54993	58122	54993
60°	120613	36609	36930	36609
65°	85457	22809	20883	22809
70°	61642	15282	13867	15282
75°	39138	7589	6315	7589
80°	27312	5647	4688	5647
85°	24377	0	1840	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1033.1	5.7
10°-20°	2991.7	16.4
20°-30°	4530.0	24.8
30°-40°	4540.2	24.8
40°-50°	2851.0	15.6
50°-60°	1519.3	8.3
60°-70°	624.8	3.4
70°-80°	165.0	0.9
80°-90°	27.9	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°	8554.8	46.8
0°-40°	13095.0	71.6
0°-60°	17465.3	95.5
0°-90°	18283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10854	10854	10854	10854	10854	
5°	10526	10838	11225	10838	10526	993
15°	9725	10557	11607	10557	9725	2751
25°	9110	9942	10743	9942	9110	4178
35°	7346	7552	7165	7552	7346	4602
45°	5173	2766	3201	2766	5173	3978
55°	2942	1023	1081	1023	2942	2622
65°	1171	313	286	313	1171	1215
75°	328	64	53	64	328	372
85°	69	0	5	0	69	76
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°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10742.8	10732.1	10726.9	10737.5	10742.8	10763.9	10758.7	10769.2	10769.2	10774.6	10785.1
5°	10525.5	10520.1	10525.5	10525.5	10546.7	10567.8	10562.6	10578.5	10589.0	10615.6	10626.1
7.5°	10324.2	10324.2	10318.7	10339.9	10350.6	10382.4	10377.0	10403.6	10419.5	10445.9	10483.0
10°	10117.4	10117.4	10122.6	10138.5	10144.0	10191.5	10191.5	10228.6	10249.8	10276.4	10324.2
12.5°	9916.0	9916.0	9947.9	9937.2	9958.3	9995.4	10011.3	10048.4	10080.3	10133.3	10181.1
15°	9725.1	9725.1	9735.8	9762.2	9778.1	9825.9	9852.3	9894.9	9931.9	9984.9	10053.9
17.5°	9560.9	9555.6	9560.9	9592.7	9624.6	9666.9	9688.1	9741.1	9778.1	9847.1	9910.8
20°	9396.6	9407.3	9407.3	9433.7	9454.9	9507.9	9529.0	9587.5	9629.8	9693.3	9767.7
22.5°	9253.5	9248.3	9248.3	9285.4	9301.3	9348.8	9370.0	9423.0	9470.8	9523.8	9592.7
25°	9110.4	9099.7	9121.1	9126.3	9136.8	9189.8	9205.7	9242.8	9290.6	9338.4	9407.3
27.5°	8898.4	8887.9	8893.1	8914.3	8930.2	8972.5	8983.2	9020.3	9057.4	9099.7	9158.2
30°	8490.2	8479.7	8474.5	8511.6	8527.5	8559.1	8575.1	8638.8	8649.2	8697.0	8739.3
32.5°	7949.7	7944.4	7955.1	7986.7	8002.7	8045.2	8066.4	8103.4	8129.8	8156.5	8198.8
35°	7345.6	7334.9	7345.6	7377.5	7377.5	7414.5	7430.5	7446.2	7440.9	7446.2	7435.7
37.5°	6783.9	6778.4	6783.9	6799.6	6783.9	6799.6	6783.9	6752.0	6693.8	6630.1	6566.4
40°	6306.8	6312.0	6280.4	6301.6	6243.1	6232.6	6174.4	6094.8	5978.3	5851.1	5670.9
42.5°	5798.1	5782.2	5761.0	5771.5	5723.9	5686.6	5591.3	5490.7	5342.2	5130.3	4912.9
45°	5172.7	5167.4	5156.7	5151.5	5119.7	5082.6	5002.9	4886.5	4722.2	4504.9	4245.1
47.5°	4563.2	4547.2	4547.2	4552.5	4515.4	4510.2	4446.5	4345.9	4202.8	3990.8	3720.5
50°	3980.1	3974.8	3985.5	4006.7	3980.1	3969.6	3927.3	3858.3	3731.2	3551.0	3296.4
52.5°	3455.4	3450.2	3460.9	3487.3	3476.6	3487.3	3445.0	3391.9	3307.1	3132.1	2909.6
55°	2941.5	2941.5	2941.5	2973.1	2973.1	2973.1	2951.9	2920.3	2840.7	2713.5	2506.9
57.5°	2406.1	2411.4	2443.2	2448.5	2443.2	2453.9	2448.5	2416.6	2363.8	2273.7	2114.7
60°	1955.7	1955.7	1971.6	1987.5	1982.1	1987.5	1987.5	1971.6	1918.6	1844.4	1717.2
62.5°	1547.5	1563.4	1552.8	1563.4	1584.6	1563.4	1552.8	1542.3	1505.2	1457.4	1351.4
65°	1171.2	1181.9	1181.9	1187.1	1176.5	1181.9	1160.8	1144.8	1123.7	1070.7	1001.7
67.5°	890.5	890.5	890.5	890.5	885.0	879.8	874.5	858.6	821.5	800.4	726.0
70°	683.7	651.8	651.8	651.8	651.8	657.3	641.3	620.2	609.5	572.4	519.4
72.5°	455.7	466.4	455.7	455.7	445.2	450.5	429.3	418.6	408.1	387.0	355.1
75°	328.5	302.1	312.6	318.1	302.1	312.6	291.4	270.3	270.3	254.4	238.4
77.5°	212.0	206.8	212.0	217.3	212.0	206.8	196.1	185.4	185.4	180.2	164.3
80°	153.8	148.3	148.3	148.3	143.1	148.3	137.9	137.9	127.2	121.9	111.3
82.5°	100.8	100.8	95.3	100.8	95.3	100.8	84.9	84.9	84.9	79.4	68.9
85°	68.9	58.2	58.2	63.7	53.0	63.7	58.2	53.0	47.8	47.8	42.3
87.5°	31.8	37.1	31.8	37.1	31.8	31.8	37.1	31.8	31.8	21.2	21.2
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: P248721

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10801.0	10806.3	10806.3	10827.6	10838.1	10843.3	10843.3	10885.9	10870.0	10880.7	10891.1
5°	10647.5	10679.1	10689.8	10689.8	10748.0	10769.2	10790.3	10838.1	10843.3	10875.2	10912.3
7.5°	10498.9	10536.0	10557.4	10604.9	10642.0	10679.1	10742.8	10774.6	10806.3	10848.8	10896.4
10°	10355.8	10398.3	10440.7	10477.7	10536.0	10583.8	10626.1	10700.2	10737.5	10795.8	10859.3
12.5°	10218.1	10276.4	10313.5	10377.0	10440.7	10483.0	10546.7	10615.6	10673.9	10732.1	10806.3
15°	10096.2	10165.1	10207.5	10276.4	10345.3	10403.6	10472.5	10557.4	10599.7	10668.6	10737.5
17.5°	9963.6	10038.0	10091.0	10154.4	10239.3	10302.8	10361.2	10445.9	10498.9	10573.1	10652.7
20°	9825.9	9900.1	9963.6	10027.3	10112.1	10175.6	10244.5	10329.4	10387.6	10461.8	10525.5
22.5°	9661.7	9730.6	9799.3	9873.5	9958.3	10011.3	10091.0	10165.1	10228.6	10297.5	10361.2
25°	9449.6	9534.5	9587.5	9656.2	9725.1	9783.4	9868.2	9942.4	9995.4	10059.1	10117.4
27.5°	9200.5	9264.2	9306.5	9364.8	9433.7	9486.7	9550.2	9624.6	9677.6	9735.8	9778.1
30°	8776.4	8834.9	8872.0	8914.3	8983.2	9031.0	9084.0	9152.7	9189.8	9232.3	9269.4
32.5°	8219.9	8267.7	8288.9	8320.7	8368.5	8416.0	8458.6	8516.8	8532.8	8559.1	8559.1
35°	7414.5	7425.0	7419.8	7430.5	7451.6	7478.0	7515.1	7552.2	7573.4	7573.4	7557.6
37.5°	6471.1	6407.6	6338.6	6285.6	6269.7	6259.0	6280.4	6296.1	6317.5	6328.0	6301.6
40°	5490.7	5347.6	5193.8	5056.0	4960.6	4918.3	4902.4	4912.9	4912.9	4949.9	4949.9
42.5°	4648.0	4425.3	4197.6	3990.8	3852.9	3747.1	3699.3	3699.3	3704.5	3731.2	3747.1
45°	3948.4	3667.5	3402.4	3174.7	2983.8	2845.9	2782.4	2766.5	2761.3	2771.8	2808.8
47.5°	3413.1	3121.7	2845.9	2565.2	2363.8	2226.0	2167.7	2146.3	2125.2	2146.3	2151.8
50°	2994.5	2692.3	2400.9	2119.9	1907.9	1786.0	1711.8	1679.9	1674.7	1674.7	1685.4
52.5°	2612.7	2332.0	2040.5	1754.3	1531.6	1415.1	1346.2	1330.3	1309.1	1330.3	1330.3
55°	2252.4	1971.6	1685.4	1415.1	1229.5	1107.7	1044.0	1022.9	1012.2	1028.1	1028.1
57.5°	1860.3	1621.7	1356.9	1113.0	927.6	842.7	794.9	768.5	763.1	773.8	763.1
60°	1526.4	1325.0	1097.1	874.5	731.4	641.3	604.3	593.6	582.9	593.6	593.6
62.5°	1208.3	1038.8	853.2	683.7	561.7	498.2	455.7	455.7	450.5	450.5	455.7
65°	895.7	763.1	630.7	487.6	392.2	344.5	312.6	312.6	307.4	312.6	307.4
67.5°	651.8	561.7	455.7	355.1	281.0	254.4	233.2	217.3	228.0	217.3	212.0
70°	477.1	402.7	328.5	270.3	217.3	190.9	175.0	169.5	159.0	159.0	159.0
72.5°	318.1	270.3	222.5	175.0	143.1	116.5	111.3	100.8	90.1	95.3	106.0
75°	212.0	180.2	159.0	127.2	95.3	95.3	63.7	63.7	53.0	63.7	47.8
77.5°	148.3	121.9	95.3	79.4	63.7	58.2	42.3	42.3	37.1	37.1	37.1
80°	106.0	90.1	68.9	58.2	42.3	42.3	37.1	31.8	26.4	26.4	31.8
82.5°	63.7	47.8	47.8	42.3	26.4	21.2	15.9	21.2	10.7	10.7	10.7
85°	37.1	31.8	26.4	15.9	10.7	10.7	5.2	0.0	5.2	5.2	0.0
87.5°	21.2	10.7	10.7	5.2	0.0	5.2	5.2	0.0	0.0	0.0	10.7
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: P248721

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10917.7	10912.3	10923.0	10923.0	10954.8	10949.4	10965.3	10965.3	10954.8	10960.1	10981.2
5°	10954.8	10970.7	11002.4	11029.0	11076.5	11097.9	11124.3	11150.9	11156.2	11172.1	11188.0
7.5°	10954.8	11007.8	11044.9	11092.5	11156.2	11193.3	11251.5	11299.3	11320.4	11346.8	11378.7
10°	10933.4	10986.5	11055.4	11108.4	11188.0	11246.3	11304.5	11378.7	11410.5	11452.8	11495.4
12.5°	10891.1	10949.4	11023.5	11092.5	11182.6	11235.6	11309.7	11378.7	11426.5	11484.7	11532.5
15°	10827.6	10896.4	10965.3	11034.2	11129.6	11193.3	11262.2	11341.6	11389.4	11452.8	11495.4
17.5°	10726.9	10801.0	10864.7	10928.2	11018.3	11092.5	11156.2	11230.3	11278.1	11331.1	11389.4
20°	10604.9	10673.9	10742.8	10795.8	10885.9	10949.4	11018.3	11087.2	11124.3	11135.0	11225.1
22.5°	10451.3	10498.9	10551.9	10636.8	10689.8	10748.0	10811.7	10875.2	10912.3	10970.7	11002.4
25°	10196.8	10244.5	10302.8	10339.9	10403.6	10451.3	10514.8	10583.8	10604.9	10647.5	10679.1
27.5°	9841.8	9868.2	9894.9	9926.5	9963.6	9990.2	10027.3	10059.1	10080.3	10101.4	10122.6
30°	9279.9	9279.9	9279.9	9258.7	9274.7	9290.6	9295.8	9290.6	9290.6	9285.4	9285.4
32.5°	8538.0	8495.7	8447.9	8405.6	8389.7	8368.5	8357.8	8341.9	8315.5	8299.6	8304.8
35°	7536.3	7440.9	7382.7	7329.7	7287.4	7255.5	7239.6	7223.7	7218.4	7197.3	7175.9
37.5°	6285.6	6216.7	6174.4	6142.5	6105.5	6073.6	6078.8	6084.3	6100.0	6089.5	6094.8
40°	4960.6	4944.7	4960.6	4923.5	4912.9	4923.5	4949.9	4987.2	5008.4	5029.6	5066.6
42.5°	3773.5	3799.9	3837.2	3837.2	3852.9	3874.3	3905.9	3964.4	3996.0	4033.1	4075.6
45°	2840.7	2872.5	2920.3	2936.0	2946.7	2973.1	3010.4	3058.0	3079.1	3111.0	3148.1
47.5°	2188.9	2210.0	2236.4	2263.0	2289.4	2300.1	2337.2	2337.2	2363.8	2385.0	2395.5
50°	1706.6	1727.7	1748.9	1764.8	1775.5	1791.4	1801.9	1817.8	1823.0	1833.7	1839.0
52.5°	1335.5	1362.1	1362.1	1372.6	1388.5	1404.4	1399.2	1404.4	1409.7	1409.7	1425.6
55°	1044.0	1044.0	1060.0	1060.0	1070.7	1065.2	1070.7	1070.7	1070.7	1070.7	1075.9
57.5°	779.0	784.5	800.4	789.7	784.5	794.9	784.5	794.9	789.7	800.4	784.5
60°	598.8	598.8	604.3	604.3	609.5	609.5	609.5	604.3	604.3	598.8	598.8
62.5°	450.5	455.7	461.2	455.7	455.7	455.7	450.5	450.5	445.2	439.8	439.8
65°	302.1	296.9	307.4	296.9	302.1	302.1	296.9	302.1	286.2	291.4	286.2
67.5°	217.3	212.0	206.8	212.0	206.8	201.3	201.3	206.8	212.0	196.1	196.1
70°	143.1	148.3	143.1	148.3	153.8	153.8	148.3	143.1	148.3	137.9	143.1
72.5°	90.1	90.1	90.1	90.1	90.1	95.3	95.3	95.3	84.9	84.9	79.4
75°	42.3	58.2	47.8	42.3	58.2	58.2	53.0	53.0	47.8	47.8	47.8
77.5°	42.3	31.8	31.8	31.8	31.8	31.8	31.8	31.8	26.4	31.8	26.4
80°	21.2	21.2	21.2	15.9	21.2	21.2	26.4	21.2	21.2	15.9	26.4
82.5°	10.7	10.7	10.7	0.0	5.2	10.7	10.7	5.2	10.7	10.7	5.2
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: P248721

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10976.0	10970.7	10976.0	10981.2	10976.0	10970.7	10976.0	10981.2	10960.1	10954.8	10965.3
5°	11209.2	11209.2	11219.6	11225.1	11219.6	11209.2	11209.2	11188.0	11172.1	11156.2	11150.9
7.5°	11410.5	11421.2	11431.7	11436.9	11431.7	11421.2	11410.5	11378.7	11346.8	11320.4	11299.3
10°	11532.5	11548.4	11569.6	11580.0	11569.6	11548.4	11532.5	11495.4	11452.8	11410.5	11378.7
12.5°	11585.5	11601.4	11627.8	11622.6	11627.8	11601.4	11585.5	11532.5	11484.7	11426.5	11378.7
15°	11548.4	11569.6	11596.0	11606.6	11596.0	11569.6	11548.4	11495.4	11452.8	11389.4	11341.6
17.5°	11431.7	11463.5	11479.5	11495.4	11479.5	11463.5	11431.7	11389.4	11331.1	11278.1	11230.3
20°	11272.7	11294.0	11315.2	11320.4	11315.2	11294.0	11272.7	11225.1	11135.0	11124.3	11087.2
22.5°	11044.9	11060.8	11108.4	11092.5	11108.4	11060.8	11044.9	11002.4	10970.7	10912.3	10875.2
25°	10716.2	10732.1	10737.5	10742.8	10737.5	10732.1	10716.2	10679.1	10647.5	10604.9	10583.8
27.5°	10149.2	10149.2	10159.7	10165.1	10159.7	10149.2	10149.2	10122.6	10101.4	10080.3	10059.1
30°	9290.6	9290.6	9290.6	9317.2	9290.6	9290.6	9290.6	9285.4	9285.4	9290.6	9290.6
32.5°	8299.6	8288.9	8278.4	8288.9	8278.4	8288.9	8299.6	8304.8	8299.6	8315.5	8341.9
35°	7175.9	7170.7	7186.6	7165.4	7186.6	7170.7	7175.9	7175.9	7197.3	7218.4	7223.7
37.5°	6100.0	6089.5	6110.7	6089.5	6110.7	6089.5	6100.0	6094.8	6089.5	6100.0	6084.3
40°	5077.3	5087.8	5087.8	5130.3	5087.8	5087.8	5077.3	5066.6	5029.6	5008.4	4987.2
42.5°	4096.8	4128.6	4117.9	4149.8	4117.9	4128.6	4096.8	4075.6	4033.1	3996.0	3964.4
45°	3169.2	3190.6	3190.6	3201.1	3190.6	3190.6	3169.2	3148.1	3111.0	3079.1	3058.0
47.5°	2432.5	2432.5	2432.5	2438.0	2432.5	2432.5	2432.5	2395.5	2385.0	2363.8	2337.2
50°	1849.7	1854.9	1860.3	1865.6	1860.3	1854.9	1849.7	1839.0	1833.7	1823.0	1817.8
52.5°	1420.3	1425.6	1415.1	1425.6	1415.1	1425.6	1420.3	1425.6	1409.7	1409.7	1404.4
55°	1075.9	1070.7	1075.9	1081.1	1075.9	1070.7	1075.9	1075.9	1070.7	1070.7	1070.7
57.5°	789.7	779.0	779.0	779.0	779.0	779.0	789.7	784.5	800.4	789.7	794.9
60°	588.3	593.6	593.6	598.8	593.6	593.6	588.3	598.8	598.8	604.3	604.3
62.5°	434.5	450.5	439.8	450.5	439.8	450.5	434.5	439.8	439.8	445.2	450.5
65°	281.0	281.0	281.0	286.2	281.0	281.0	281.0	286.2	291.4	286.2	302.1
67.5°	190.9	196.1	206.8	201.3	206.8	196.1	190.9	196.1	196.1	212.0	206.8
70°	153.8	137.9	137.9	153.8	137.9	137.9	153.8	143.1	137.9	148.3	143.1
72.5°	90.1	79.4	90.1	90.1	90.1	79.4	90.1	79.4	84.9	84.9	95.3
75°	47.8	42.3	37.1	53.0	37.1	42.3	47.8	47.8	47.8	47.8	53.0
77.5°	31.8	26.4	37.1	37.1	37.1	26.4	31.8	26.4	31.8	26.4	31.8
80°	15.9	21.2	15.9	26.4	15.9	21.2	15.9	26.4	15.9	21.2	21.2
82.5°	5.2	10.7	10.7	10.7	10.7	10.7	5.2	5.2	10.7	10.7	5.2
85°	0.0	10.7	5.2	5.2	5.2	10.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	0.0	0.0	5.2	0.0	0.0	5.2	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: P248721

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10965.3	10949.4	10954.8	10923.0	10923.0	10912.3	10917.7	10891.1	10880.7	10870.0	10885.9
5°	11124.3	11097.9	11076.5	11029.0	11002.4	10970.7	10954.8	10912.3	10875.2	10843.3	10838.1
7.5°	11251.5	11193.3	11156.2	11092.5	11044.9	11007.8	10954.8	10896.4	10848.8	10806.3	10774.6
10°	11304.5	11246.3	11188.0	11108.4	11055.4	10986.5	10933.4	10859.3	10795.8	10737.5	10700.2
12.5°	11309.7	11235.6	11182.6	11092.5	11023.5	10949.4	10891.1	10806.3	10732.1	10673.9	10615.6
15°	11262.2	11193.3	11129.6	11034.2	10965.3	10896.4	10827.6	10737.5	10668.6	10599.7	10557.4
17.5°	11156.2	11092.5	11018.3	10928.2	10864.7	10801.0	10726.9	10652.7	10573.1	10498.9	10445.9
20°	11018.3	10949.4	10885.9	10795.8	10742.8	10673.9	10604.9	10525.5	10461.8	10387.6	10329.4
22.5°	10811.7	10748.0	10689.8	10636.8	10551.9	10498.9	10451.3	10361.2	10297.5	10228.6	10165.1
25°	10514.8	10451.3	10403.6	10339.9	10302.8	10244.5	10196.8	10117.4	10059.1	9995.4	9942.4
27.5°	10027.3	9990.2	9963.6	9926.5	9894.9	9868.2	9841.8	9778.1	9735.8	9677.6	9624.6
30°	9295.8	9290.6	9274.7	9258.7	9279.9	9279.9	9279.9	9269.4	9232.3	9189.8	9152.7
32.5°	8357.8	8368.5	8389.7	8405.6	8447.9	8495.7	8538.0	8559.1	8559.1	8532.8	8516.8
35°	7239.6	7255.5	7287.4	7329.7	7382.7	7440.9	7536.3	7557.6	7573.4	7573.4	7552.2
37.5°	6078.8	6073.6	6105.5	6142.5	6174.4	6216.7	6285.6	6301.6	6328.0	6317.5	6296.1
40°	4949.9	4923.5	4912.9	4923.5	4960.6	4944.7	4960.6	4949.9	4949.9	4912.9	4912.9
42.5°	3905.9	3874.3	3852.9	3837.2	3837.2	3799.9	3773.5	3747.1	3731.2	3704.5	3699.3
45°	3010.4	2973.1	2946.7	2936.0	2920.3	2872.5	2840.7	2808.8	2771.8	2761.3	2766.5
47.5°	2337.2	2300.1	2289.4	2263.0	2236.4	2210.0	2188.9	2151.8	2146.3	2125.2	2146.3
50°	1801.9	1791.4	1775.5	1764.8	1748.9	1727.7	1706.6	1685.4	1674.7	1674.7	1679.9
52.5°	1399.2	1404.4	1388.5	1372.6	1362.1	1362.1	1335.5	1330.3	1330.3	1309.1	1330.3
55°	1070.7	1065.2	1070.7	1060.0	1060.0	1044.0	1044.0	1028.1	1028.1	1012.2	1022.9
57.5°	784.5	794.9	784.5	789.7	800.4	784.5	779.0	763.1	773.8	763.1	768.5
60°	609.5	609.5	609.5	604.3	604.3	598.8	598.8	593.6	593.6	582.9	593.6
62.5°	450.5	455.7	455.7	455.7	461.2	455.7	450.5	455.7	450.5	450.5	455.7
65°	296.9	302.1	302.1	296.9	307.4	296.9	302.1	307.4	312.6	307.4	312.6
67.5°	201.3	201.3	206.8	212.0	206.8	212.0	217.3	212.0	217.3	228.0	217.3
70°	148.3	153.8	153.8	148.3	143.1	148.3	143.1	159.0	159.0	159.0	169.5
72.5°	95.3	95.3	90.1	90.1	90.1	90.1	90.1	106.0	95.3	90.1	100.8
75°	53.0	58.2	58.2	42.3	47.8	58.2	42.3	47.8	63.7	53.0	63.7
77.5°	31.8	31.8	31.8	31.8	31.8	31.8	42.3	37.1	37.1	37.1	42.3
80°	26.4	21.2	21.2	15.9	21.2	21.2	21.2	31.8	26.4	26.4	31.8
82.5°	10.7	10.7	5.2	0.0	10.7	10.7	10.7	10.7	10.7	10.7	21.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	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: P248721

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10843.3	10843.3	10838.1	10827.6	10806.3	10806.3	10801.0	10785.1	10774.6	10769.2	10769.2
5°	10790.3	10769.2	10748.0	10689.8	10689.8	10679.1	10647.5	10626.1	10615.6	10589.0	10578.5
7.5°	10742.8	10679.1	10642.0	10604.9	10557.4	10536.0	10498.9	10483.0	10445.9	10419.5	10403.6
10°	10626.1	10583.8	10536.0	10477.7	10440.7	10398.3	10355.8	10324.2	10276.4	10249.8	10228.6
12.5°	10546.7	10483.0	10440.7	10377.0	10313.5	10276.4	10218.1	10181.1	10133.3	10080.3	10048.4
15°	10472.5	10403.6	10345.3	10276.4	10207.5	10165.1	10096.2	10053.9	9984.9	9931.9	9894.9
17.5°	10361.2	10302.8	10239.3	10154.4	10091.0	10038.0	9963.6	9910.8	9847.1	9778.1	9741.1
20°	10244.5	10175.6	10112.1	10027.3	9963.6	9900.1	9825.9	9767.7	9693.3	9629.8	9587.5
22.5°	10091.0	10011.3	9958.3	9873.5	9799.3	9730.6	9661.7	9592.7	9523.8	9470.8	9423.0
25°	9868.2	9783.4	9725.1	9656.2	9587.5	9534.5	9449.6	9407.3	9338.4	9290.6	9242.8
27.5°	9550.2	9486.7	9433.7	9364.8	9306.5	9264.2	9200.5	9158.2	9099.7	9057.4	9020.3
30°	9084.0	9031.0	8983.2	8914.3	8872.0	8834.9	8776.4	8739.3	8697.0	8649.2	8638.8
32.5°	8458.6	8416.0	8368.5	8320.7	8288.9	8267.7	8219.9	8198.8	8156.5	8129.8	8103.4
35°	7515.1	7478.0	7451.6	7430.5	7419.8	7425.0	7414.5	7435.7	7446.2	7440.9	7446.2
37.5°	6280.4	6259.0	6269.7	6285.6	6338.6	6407.6	6471.1	6566.4	6630.1	6693.8	6752.0
40°	4902.4	4918.3	4960.6	5056.0	5193.8	5347.6	5490.7	5670.9	5851.1	5978.3	6094.8
42.5°	3699.3	3747.1	3852.9	3990.8	4197.6	4425.3	4648.0	4912.9	5130.3	5342.2	5490.7
45°	2782.4	2845.9	2983.8	3174.7	3402.4	3667.5	3948.4	4245.1	4504.9	4722.2	4886.5
47.5°	2167.7	2226.0	2363.8	2565.2	2845.9	3121.7	3413.1	3720.5	3990.8	4202.8	4345.9
50°	1711.8	1786.0	1907.9	2119.9	2400.9	2692.3	2994.5	3296.4	3551.0	3731.2	3858.3
52.5°	1346.2	1415.1	1531.6	1754.3	2040.5	2332.0	2612.7	2909.6	3132.1	3307.1	3391.9
55°	1044.0	1107.7	1229.5	1415.1	1685.4	1971.6	2252.4	2506.9	2713.5	2840.7	2920.3
57.5°	794.9	842.7	927.6	1113.0	1356.9	1621.7	1860.3	2114.7	2273.7	2363.8	2416.6
60°	604.3	641.3	731.4	874.5	1097.1	1325.0	1526.4	1717.2	1844.4	1918.6	1971.6
62.5°	455.7	498.2	561.7	683.7	853.2	1038.8	1208.3	1351.4	1457.4	1505.2	1542.3
65°	312.6	344.5	392.2	487.6	630.7	763.1	895.7	1001.7	1070.7	1123.7	1144.8
67.5°	233.2	254.4	281.0	355.1	455.7	561.7	651.8	726.0	800.4	821.5	858.6
70°	175.0	190.9	217.3	270.3	328.5	402.7	477.1	519.4	572.4	609.5	620.2
72.5°	111.3	116.5	143.1	175.0	222.5	270.3	318.1	355.1	387.0	408.1	418.6
75°	63.7	95.3	95.3	127.2	159.0	180.2	212.0	238.4	254.4	270.3	270.3
77.5°	42.3	58.2	63.7	79.4	95.3	121.9	148.3	164.3	180.2	185.4	185.4
80°	37.1	42.3	42.3	58.2	68.9	90.1	106.0	111.3	121.9	127.2	137.9
82.5°	15.9	21.2	26.4	42.3	47.8	47.8	63.7	68.9	79.4	84.9	84.9
85°	5.2	10.7	10.7	15.9	26.4	31.8	37.1	42.3	47.8	47.8	53.0
87.5°	5.2	5.2	0.0	5.2	10.7	10.7	21.2	21.2	21.2	31.8	31.8
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: P248721

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0	10854.0
2.5°	10758.7	10763.9	10742.8	10737.5	10726.9	10732.1	10742.8
5°	10562.6	10567.8	10546.7	10525.5	10525.5	10520.1	10525.5
7.5°	10377.0	10382.4	10350.6	10339.9	10318.7	10324.2	10324.2
10°	10191.5	10191.5	10144.0	10138.5	10122.6	10117.4	10117.4
12.5°	10011.3	9995.4	9958.3	9937.2	9947.9	9916.0	9916.0
15°	9852.3	9825.9	9778.1	9762.2	9735.8	9725.1	9725.1
17.5°	9688.1	9666.9	9624.6	9592.7	9560.9	9555.6	9560.9
20°	9529.0	9507.9	9454.9	9433.7	9407.3	9407.3	9396.6
22.5°	9370.0	9348.8	9301.3	9285.4	9248.3	9248.3	9253.5
25°	9205.7	9189.8	9136.8	9126.3	9121.1	9099.7	9110.4
27.5°	8983.2	8972.5	8930.2	8914.3	8893.1	8887.9	8898.4
30°	8575.1	8559.1	8527.5	8511.6	8474.5	8479.7	8490.2
32.5°	8066.4	8045.2	8002.7	7986.7	7955.1	7944.4	7949.7
35°	7430.5	7414.5	7377.5	7377.5	7345.6	7334.9	7345.6
37.5°	6783.9	6799.6	6783.9	6799.6	6783.9	6778.4	6783.9
40°	6174.4	6232.6	6243.1	6301.6	6280.4	6312.0	6306.8
42.5°	5591.3	5686.6	5723.9	5771.5	5761.0	5782.2	5798.1
45°	5002.9	5082.6	5119.7	5151.5	5156.7	5167.4	5172.7
47.5°	4446.5	4510.2	4515.4	4552.5	4547.2	4547.2	4563.2
50°	3927.3	3969.6	3980.1	4006.7	3985.5	3974.8	3980.1
52.5°	3445.0	3487.3	3476.6	3487.3	3460.9	3450.2	3455.4
55°	2951.9	2973.1	2973.1	2973.1	2941.5	2941.5	2941.5
57.5°	2448.5	2453.9	2443.2	2448.5	2443.2	2411.4	2406.1
60°	1987.5	1987.5	1982.1	1987.5	1971.6	1955.7	1955.7
62.5°	1552.8	1563.4	1584.6	1563.4	1552.8	1563.4	1547.5
65°	1160.8	1181.9	1176.5	1187.1	1181.9	1181.9	1171.2
67.5°	874.5	879.8	885.0	890.5	890.5	890.5	890.5
70°	641.3	657.3	651.8	651.8	651.8	651.8	683.7
72.5°	429.3	450.5	445.2	455.7	455.7	466.4	455.7
75°	291.4	312.6	302.1	318.1	312.6	302.1	328.5
77.5°	196.1	206.8	212.0	217.3	212.0	206.8	212.0
80°	137.9	148.3	143.1	148.3	148.3	148.3	153.8
82.5°	84.9	100.8	95.3	100.8	95.3	100.8	100.8
85°	58.2	63.7	53.0	63.7	58.2	58.2	68.9
87.5°	37.1	31.8	31.8	37.1	31.8	37.1	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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