

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: P248892

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248892
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 ER8B200835 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16526.0 lumens
Efficiency: N/A
Efficacy: 74.0 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

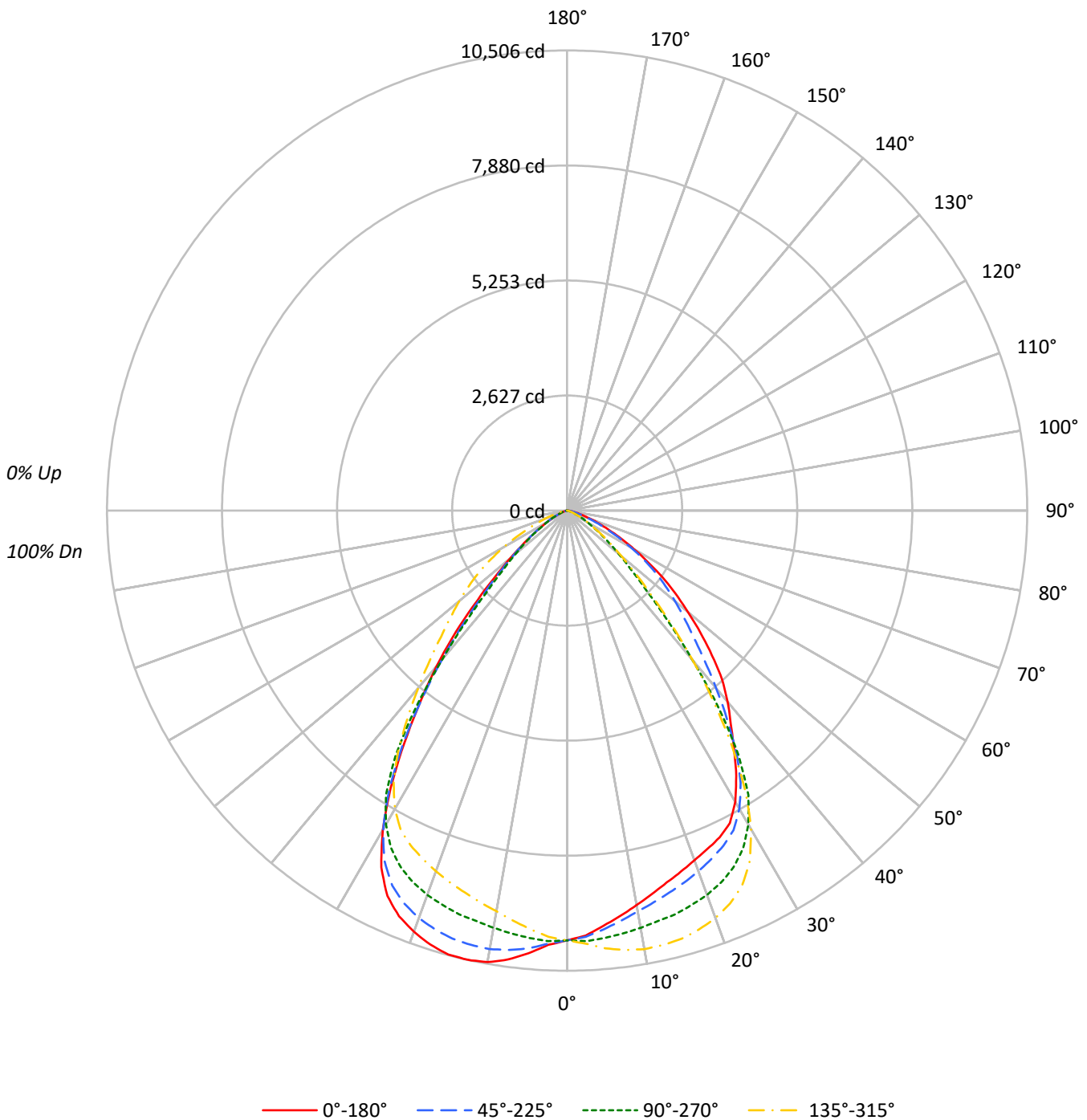
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	302535	302535	302535	302535
5°	294497	303245	314073	303245
10°	286352	302847	327749	302847
15°	280629	304645	334922	304645
20°	278720	306387	335783	306387
25°	280185	305771	330388	305771
30°	273257	294578	299873	294578
35°	249946	256974	243814	256974
40°	229476	178756	186670	178756
45°	203899	109053	126179	109053
50°	172587	72847	80897	72847
55°	142941	49708	52536	49708
60°	109019	33087	33383	33087
65°	77248	20620	18876	20620
70°	55718	13812	12532	13812
75°	35385	6863	5707	6863
80°	24684	5114	4244	5114
85°	22042	0	1663	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.8	5.7
10°-20°	2704.2	16.4
20°-30°	4094.7	24.8
30°-40°	4103.9	24.8
40°-50°	2577.0	15.6
50°-60°	1373.3	8.3
60°-70°	564.7	3.4
70°-80°	149.2	0.9
80°-90°	25.2	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°	7732.7	46.8
0°-40°	11836.5	71.6
0°-60°	15786.9	95.5
0°-90°	16526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16526.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9811	9811	9811	9811	9811	
5°	9514	9797	10146	9797	9514	897
15°	8790	9543	10491	9543	8790	2486
25°	8235	8987	9710	8987	8235	3777
35°	6640	6826	6477	6826	6640	4160
45°	4676	2501	2893	2501	4676	3596
55°	2659	925	977	925	2659	2370
65°	1059	283	259	283	1059	1098
75°	297	58	48	58	297	336
85°	62	0	5	0	62	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°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9710.4	9700.7	9696.0	9705.7	9710.4	9729.5	9724.8	9734.3	9734.3	9739.2	9748.7
5°	9514.0	9509.1	9514.0	9514.0	9533.1	9552.3	9547.5	9561.9	9571.4	9595.4	9604.9
7.5°	9332.0	9332.0	9327.1	9346.2	9355.9	9384.7	9379.7	9403.8	9418.2	9442.0	9475.6
10°	9145.1	9145.1	9149.8	9164.2	9169.1	9212.1	9212.1	9245.6	9264.8	9288.8	9332.0
12.5°	8963.1	8963.1	8991.9	8982.2	9001.3	9034.9	9049.3	9082.8	9111.6	9159.5	9202.7
15°	8790.5	8790.5	8800.2	8824.1	8838.5	8881.6	8905.5	8944.0	8977.5	9025.4	9087.7
17.5°	8642.1	8637.3	8642.1	8670.9	8699.6	8737.9	8757.0	8804.9	8838.5	8900.8	8958.4
20°	8493.6	8503.3	8503.3	8527.1	8546.2	8594.2	8613.3	8666.1	8704.4	8761.8	8829.0
22.5°	8364.2	8359.5	8359.5	8393.0	8407.4	8450.4	8469.5	8517.5	8560.6	8608.6	8670.9
25°	8234.9	8225.2	8244.6	8249.3	8258.8	8306.7	8321.1	8354.6	8397.8	8440.9	8503.3
27.5°	8043.2	8033.8	8038.5	8057.6	8072.0	8110.3	8119.9	8153.5	8187.0	8225.2	8278.1
30°	7674.3	7664.8	7660.1	7693.6	7708.0	7736.6	7751.0	7808.6	7818.0	7861.2	7899.5
32.5°	7185.7	7181.0	7190.6	7219.2	7233.6	7272.1	7291.2	7324.7	7348.6	7372.6	7410.9
35°	6639.7	6630.0	6639.7	6668.5	6668.5	6702.0	6716.4	6730.6	6725.9	6730.6	6721.1
37.5°	6132.0	6127.0	6132.0	6146.1	6132.0	6146.1	6132.0	6103.2	6050.5	5992.9	5935.4
40°	5700.7	5705.4	5676.9	5696.0	5643.1	5633.7	5581.0	5509.1	5403.8	5288.8	5125.9
42.5°	5240.9	5226.5	5207.4	5216.8	5173.8	5140.1	5054.0	4963.1	4828.8	4637.3	4440.7
45°	4675.6	4670.8	4661.2	4656.4	4627.7	4594.1	4522.2	4416.9	4268.4	4072.0	3837.2
47.5°	4124.6	4110.2	4110.2	4115.0	4081.5	4076.7	4019.2	3928.2	3798.9	3607.2	3362.9
50°	3597.6	3592.8	3602.5	3621.6	3597.6	3588.1	3549.9	3487.5	3372.6	3209.7	2979.6
52.5°	3123.4	3118.6	3128.3	3152.1	3142.5	3152.1	3113.9	3066.0	2989.3	2831.1	2630.0
55°	2658.8	2658.8	2658.8	2687.4	2687.4	2687.4	2668.3	2639.7	2567.7	2452.7	2266.0
57.5°	2174.9	2179.6	2208.4	2213.2	2208.4	2218.1	2213.2	2184.4	2136.7	2055.2	1911.5
60°	1767.7	1767.7	1782.1	1796.5	1791.6	1796.5	1796.5	1782.1	1734.2	1667.2	1552.2
62.5°	1398.8	1413.2	1403.5	1413.2	1432.3	1413.2	1403.5	1394.1	1360.6	1317.4	1221.5
65°	1058.7	1068.3	1068.3	1073.1	1063.4	1068.3	1049.2	1034.8	1015.7	967.8	905.5
67.5°	804.9	804.9	804.9	804.9	800.0	795.2	790.5	776.1	742.6	723.5	656.2
70°	618.0	589.2	589.2	589.2	589.2	594.1	579.7	560.6	550.9	517.4	469.5
72.5°	411.9	421.6	411.9	411.9	402.4	407.2	388.1	378.4	368.9	349.8	321.0
75°	297.0	273.1	282.6	287.5	273.1	282.6	263.4	244.3	244.3	229.9	215.5
77.5°	191.7	186.9	191.7	196.4	191.7	186.9	177.3	167.6	167.6	162.9	148.5
80°	139.0	134.1	134.1	134.1	129.4	134.1	124.6	124.6	115.0	110.2	100.6
82.5°	91.1	91.1	86.2	91.1	86.2	91.1	76.7	76.7	76.7	71.8	62.3
85°	62.3	52.6	52.6	57.6	47.9	57.6	52.6	47.9	43.2	43.2	38.3
87.5°	28.8	33.5	28.8	33.5	28.8	28.8	33.5	28.8	28.8	19.1	19.1
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°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9763.0	9767.8	9767.8	9787.1	9796.6	9801.3	9801.3	9839.8	9825.4	9835.0	9844.5
5°	9624.2	9652.8	9662.5	9662.5	9715.1	9734.3	9753.4	9796.6	9801.3	9830.1	9863.6
7.5°	9490.0	9523.5	9542.8	9585.8	9619.3	9652.8	9710.4	9739.2	9767.8	9806.2	9849.2
10°	9360.6	9399.1	9437.3	9470.8	9523.5	9566.7	9604.9	9671.9	9705.7	9758.3	9815.7
12.5°	9236.2	9288.8	9322.3	9379.7	9437.3	9475.6	9533.1	9595.4	9648.1	9700.7	9767.8
15°	9126.0	9188.3	9226.5	9288.8	9351.1	9403.8	9466.1	9542.8	9581.0	9643.4	9705.7
17.5°	9006.1	9073.3	9121.2	9178.6	9255.3	9312.7	9365.5	9442.0	9490.0	9557.0	9629.0
20°	8881.6	8948.7	9006.1	9063.6	9140.3	9197.7	9260.0	9336.7	9389.4	9456.4	9514.0
22.5°	8733.2	8795.5	8857.6	8924.6	9001.3	9049.3	9121.2	9188.3	9245.6	9308.0	9365.5
25°	8541.5	8618.2	8666.1	8728.2	8790.5	8843.2	8919.9	8986.9	9034.9	9092.4	9145.1
27.5°	8316.3	8373.9	8412.2	8464.8	8527.1	8575.0	8632.4	8699.6	8747.6	8800.2	8838.5
30°	7933.0	7985.9	8019.4	8057.6	8119.9	8163.1	8211.0	8273.1	8306.7	8345.1	8378.6
32.5°	7430.0	7473.2	7492.3	7521.1	7564.3	7607.3	7645.7	7698.4	7712.8	7736.6	7736.6
35°	6702.0	6711.5	6706.7	6716.4	6735.5	6759.4	6792.9	6826.4	6845.6	6845.6	6831.4
37.5°	5849.2	5791.8	5729.5	5681.6	5667.2	5657.5	5676.9	5691.1	5710.4	5719.8	5696.0
40°	4963.1	4833.7	4694.7	4570.1	4483.9	4445.7	4431.3	4440.7	4440.7	4474.2	4474.2
42.5°	4201.3	4000.0	3794.2	3607.2	3482.6	3387.0	3343.8	3343.8	3348.5	3372.6	3387.0
45°	3569.0	3315.0	3075.4	2869.6	2697.0	2572.4	2515.1	2500.7	2495.9	2505.4	2538.9
47.5°	3085.1	2821.7	2572.4	2318.7	2136.7	2012.0	1959.4	1940.1	1920.9	1940.1	1945.0
50°	2706.7	2433.6	2170.2	1916.2	1724.5	1614.3	1547.3	1518.5	1513.8	1513.8	1523.4
52.5°	2361.6	2107.9	1844.4	1585.7	1384.4	1279.1	1216.8	1202.4	1183.3	1202.4	1202.4
55°	2035.9	1782.1	1523.4	1279.1	1111.3	1001.3	943.7	924.6	914.9	929.3	929.3
57.5°	1681.6	1465.8	1226.5	1006.0	838.4	761.7	718.5	694.7	689.7	699.4	689.7
60°	1379.7	1197.7	991.6	790.5	661.1	579.7	546.2	536.5	526.9	536.5	536.5
62.5°	1092.2	939.0	771.2	618.0	507.7	450.4	411.9	411.9	407.2	407.2	411.9
65°	809.6	689.7	570.1	440.7	354.5	311.3	282.6	282.6	277.8	282.6	277.8
67.5°	589.2	507.7	411.9	321.0	254.0	229.9	210.8	196.4	206.1	196.4	191.7
70°	431.2	364.0	297.0	244.3	196.4	172.5	158.1	153.2	143.7	143.7	143.7
72.5°	287.5	244.3	201.1	158.1	129.4	105.3	100.6	91.1	81.4	86.2	95.8
75°	191.7	162.9	143.7	115.0	86.2	86.2	57.6	57.6	47.9	57.6	43.2
77.5°	134.1	110.2	86.2	71.8	57.6	52.6	38.3	38.3	33.5	33.5	33.5
80°	95.8	81.4	62.3	52.6	38.3	38.3	33.5	28.8	23.9	23.9	28.8
82.5°	57.6	43.2	43.2	38.3	23.9	19.1	14.4	19.1	9.7	9.7	9.7
85°	33.5	28.8	23.9	14.4	9.7	9.7	4.7	0.0	4.7	4.7	0.0
87.5°	19.1	9.7	9.7	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.7
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°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9868.5	9863.6	9873.3	9873.3	9902.1	9897.1	9911.5	9911.5	9902.1	9906.8	9925.9
5°	9902.1	9916.5	9945.0	9969.1	10012.1	10031.4	10055.3	10079.3	10084.1	10098.5	10112.8
7.5°	9902.1	9950.0	9983.5	10026.5	10084.1	10117.6	10170.2	10213.4	10232.5	10256.4	10285.2
10°	9882.7	9930.7	9993.0	10040.9	10112.8	10165.5	10218.1	10285.2	10314.0	10352.2	10390.7
12.5°	9844.5	9897.1	9964.2	10026.5	10107.9	10155.8	10222.9	10285.2	10328.4	10381.0	10424.2
15°	9787.1	9849.2	9911.5	9973.8	10060.0	10117.6	10179.9	10251.7	10294.8	10352.2	10390.7
17.5°	9696.0	9763.0	9820.6	9878.0	9959.4	10026.5	10084.1	10151.1	10194.3	10242.2	10294.8
20°	9585.8	9648.1	9710.4	9758.3	9839.8	9897.1	9959.4	10021.7	10055.3	10064.9	10146.4
22.5°	9447.0	9490.0	9537.9	9614.6	9662.5	9715.1	9772.7	9830.1	9863.6	9916.5	9945.0
25°	9216.9	9260.0	9312.7	9346.2	9403.8	9447.0	9504.3	9566.7	9585.8	9624.2	9652.8
27.5°	8896.0	8919.9	8944.0	8972.5	9006.1	9030.1	9063.6	9092.4	9111.6	9130.7	9149.8
30°	8388.1	8388.1	8388.1	8369.0	8383.4	8397.8	8402.5	8397.8	8397.8	8393.0	8393.0
32.5°	7717.5	7679.2	7636.1	7597.8	7583.4	7564.3	7554.6	7540.2	7516.4	7502.0	7506.7
35°	6812.0	6725.9	6673.2	6625.3	6587.0	6558.3	6543.9	6529.5	6524.7	6505.6	6486.3
37.5°	5681.6	5619.3	5581.0	5552.2	5518.7	5489.9	5494.7	5499.6	5513.8	5504.3	5509.1
40°	4483.9	4469.5	4483.9	4450.4	4440.7	4450.4	4474.2	4508.0	4527.1	4546.2	4579.7
42.5°	3410.8	3434.7	3468.4	3468.4	3482.6	3501.9	3530.5	3583.4	3612.0	3645.5	3683.9
45°	2567.7	2596.5	2639.7	2653.9	2663.5	2687.4	2721.1	2764.1	2783.2	2812.0	2845.5
47.5°	1978.5	1997.6	2021.5	2045.6	2069.4	2079.1	2112.6	2112.6	2136.7	2155.8	2165.3
50°	1542.6	1561.7	1580.8	1595.2	1604.9	1619.3	1628.7	1643.1	1647.8	1657.5	1662.2
52.5°	1207.1	1231.2	1231.2	1240.7	1255.1	1269.5	1264.7	1269.5	1274.2	1274.2	1288.6
55°	943.7	943.7	958.1	958.1	967.8	962.8	967.8	967.8	967.8	967.8	972.5
57.5°	704.1	709.1	723.5	713.8	709.1	718.5	709.1	718.5	713.8	723.5	709.1
60°	541.3	541.3	546.2	546.2	550.9	550.9	550.9	546.2	546.2	541.3	541.3
62.5°	407.2	411.9	416.8	411.9	411.9	411.9	407.2	407.2	402.4	397.5	397.5
65°	273.1	268.4	277.8	268.4	273.1	273.1	268.4	273.1	258.7	263.4	258.7
67.5°	196.4	191.7	186.9	191.7	186.9	182.0	182.0	186.9	191.7	177.3	177.3
70°	129.4	134.1	129.4	134.1	139.0	139.0	134.1	129.4	134.1	124.6	129.4
72.5°	81.4	81.4	81.4	81.4	81.4	86.2	86.2	86.2	76.7	76.7	71.8
75°	38.3	52.6	43.2	38.3	52.6	52.6	47.9	47.9	43.2	43.2	43.2
77.5°	38.3	28.8	28.8	28.8	28.8	28.8	28.8	28.8	23.9	28.8	23.9
80°	19.1	19.1	19.1	14.4	19.1	19.1	23.9	19.1	19.1	14.4	23.9
82.5°	9.7	9.7	9.7	0.0	4.7	9.7	9.7	4.7	9.7	9.7	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: P248892

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9921.2	9916.5	9921.2	9925.9	9921.2	9916.5	9921.2	9925.9	9906.8	9902.1	9911.5
5°	10132.0	10132.0	10141.4	10146.4	10141.4	10132.0	10132.0	10112.8	10098.5	10084.1	10079.3
7.5°	10314.0	10323.6	10333.1	10337.8	10333.1	10323.6	10314.0	10285.2	10256.4	10232.5	10213.4
10°	10424.2	10438.6	10457.7	10467.2	10457.7	10438.6	10424.2	10390.7	10352.2	10314.0	10285.2
12.5°	10472.1	10486.5	10510.4	10505.6	10510.4	10486.5	10472.1	10424.2	10381.0	10328.4	10285.2
15°	10438.6	10457.7	10481.6	10491.2	10481.6	10457.7	10438.6	10390.7	10352.2	10294.8	10251.7
17.5°	10333.1	10361.9	10376.3	10390.7	10376.3	10361.9	10333.1	10294.8	10242.2	10194.3	10151.1
20°	10189.4	10208.7	10227.8	10232.5	10227.8	10208.7	10189.4	10146.4	10064.9	10055.3	10021.7
22.5°	9983.5	9997.9	10040.9	10026.5	10040.9	9997.9	9983.5	9945.0	9916.5	9863.6	9830.1
25°	9686.3	9700.7	9705.7	9710.4	9705.7	9700.7	9686.3	9652.8	9624.2	9585.8	9566.7
27.5°	9173.9	9173.9	9183.3	9188.3	9183.3	9173.9	9173.9	9149.8	9130.7	9111.6	9092.4
30°	8397.8	8397.8	8397.8	8421.8	8397.8	8397.8	8397.8	8393.0	8393.0	8397.8	8397.8
32.5°	7502.0	7492.3	7482.8	7492.3	7482.8	7492.3	7502.0	7506.7	7502.0	7516.4	7540.2
35°	6486.3	6481.6	6495.9	6476.8	6495.9	6481.6	6486.3	6486.3	6505.6	6524.7	6529.5
37.5°	5513.8	5504.3	5523.4	5504.3	5523.4	5504.3	5513.8	5509.1	5504.3	5513.8	5499.6
40°	4589.4	4598.9	4598.9	4637.3	4598.9	4598.9	4589.4	4579.7	4546.2	4527.1	4508.0
42.5°	3703.1	3731.9	3722.2	3751.0	3722.2	3731.9	3703.1	3683.9	3645.5	3612.0	3583.4
45°	2864.7	2884.0	2884.0	2893.4	2884.0	2884.0	2864.7	2845.5	2812.0	2783.2	2764.1
47.5°	2198.8	2198.8	2198.8	2203.7	2198.8	2198.8	2198.8	2165.3	2155.8	2136.7	2112.6
50°	1671.9	1676.6	1681.6	1686.3	1681.6	1676.6	1671.9	1662.2	1657.5	1647.8	1643.1
52.5°	1283.8	1288.6	1279.1	1288.6	1279.1	1288.6	1283.8	1288.6	1274.2	1274.2	1269.5
55°	972.5	967.8	972.5	977.2	972.5	967.8	972.5	972.5	967.8	967.8	967.8
57.5°	713.8	704.1	704.1	704.1	704.1	704.1	713.8	709.1	723.5	713.8	718.5
60°	531.8	536.5	536.5	541.3	536.5	536.5	531.8	541.3	541.3	546.2	546.2
62.5°	392.8	407.2	397.5	407.2	397.5	407.2	392.8	397.5	397.5	402.4	407.2
65°	254.0	254.0	254.0	258.7	254.0	254.0	254.0	258.7	263.4	258.7	273.1
67.5°	172.5	177.3	186.9	182.0	186.9	177.3	172.5	177.3	177.3	191.7	186.9
70°	139.0	124.6	124.6	139.0	124.6	124.6	139.0	129.4	124.6	134.1	129.4
72.5°	81.4	71.8	81.4	81.4	81.4	71.8	81.4	71.8	76.7	76.7	86.2
75°	43.2	38.3	33.5	47.9	33.5	38.3	43.2	43.2	43.2	43.2	47.9
77.5°	28.8	23.9	33.5	33.5	33.5	23.9	28.8	23.9	28.8	23.9	28.8
80°	14.4	19.1	14.4	23.9	14.4	19.1	14.4	23.9	14.4	19.1	19.1
82.5°	4.7	9.7	9.7	9.7	9.7	9.7	4.7	4.7	9.7	9.7	4.7
85°	0.0	9.7	4.7	4.7	4.7	9.7	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: P248892

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9911.5	9897.1	9902.1	9873.3	9873.3	9863.6	9868.5	9844.5	9835.0	9825.4	9839.8
5°	10055.3	10031.4	10012.1	9969.1	9945.0	9916.5	9902.1	9863.6	9830.1	9801.3	9796.6
7.5°	10170.2	10117.6	10084.1	10026.5	9983.5	9950.0	9902.1	9849.2	9806.2	9767.8	9739.2
10°	10218.1	10165.5	10112.8	10040.9	9993.0	9930.7	9882.7	9815.7	9758.3	9705.7	9671.9
12.5°	10222.9	10155.8	10107.9	10026.5	9964.2	9897.1	9844.5	9767.8	9700.7	9648.1	9595.4
15°	10179.9	10117.6	10060.0	9973.8	9911.5	9849.2	9787.1	9705.7	9643.4	9581.0	9542.8
17.5°	10084.1	10026.5	9959.4	9878.0	9820.6	9763.0	9696.0	9629.0	9557.0	9490.0	9442.0
20°	9959.4	9897.1	9839.8	9758.3	9710.4	9648.1	9585.8	9514.0	9456.4	9389.4	9336.7
22.5°	9772.7	9715.1	9662.5	9614.6	9537.9	9490.0	9447.0	9365.5	9308.0	9245.6	9188.3
25°	9504.3	9447.0	9403.8	9346.2	9312.7	9260.0	9216.9	9145.1	9092.4	9034.9	8986.9
27.5°	9063.6	9030.1	9006.1	8972.5	8944.0	8919.9	8896.0	8838.5	8800.2	8747.6	8699.6
30°	8402.5	8397.8	8383.4	8369.0	8388.1	8388.1	8388.1	8378.6	8345.1	8306.7	8273.1
32.5°	7554.6	7564.3	7583.4	7597.8	7636.1	7679.2	7717.5	7736.6	7736.6	7712.8	7698.4
35°	6543.9	6558.3	6587.0	6625.3	6673.2	6725.9	6812.0	6831.4	6845.6	6845.6	6826.4
37.5°	5494.7	5489.9	5518.7	5552.2	5581.0	5619.3	5681.6	5696.0	5719.8	5710.4	5691.1
40°	4474.2	4450.4	4440.7	4450.4	4483.9	4469.5	4483.9	4474.2	4474.2	4440.7	4440.7
42.5°	3530.5	3501.9	3482.6	3468.4	3468.4	3434.7	3410.8	3387.0	3372.6	3348.5	3343.8
45°	2721.1	2687.4	2663.5	2653.9	2639.7	2596.5	2567.7	2538.9	2505.4	2495.9	2500.7
47.5°	2112.6	2079.1	2069.4	2045.6	2021.5	1997.6	1978.5	1945.0	1940.1	1920.9	1940.1
50°	1628.7	1619.3	1604.9	1595.2	1580.8	1561.7	1542.6	1523.4	1513.8	1513.8	1518.5
52.5°	1264.7	1269.5	1255.1	1240.7	1231.2	1231.2	1207.1	1202.4	1202.4	1183.3	1202.4
55°	967.8	962.8	967.8	958.1	958.1	943.7	943.7	929.3	929.3	914.9	924.6
57.5°	709.1	718.5	709.1	713.8	723.5	709.1	704.1	689.7	699.4	689.7	694.7
60°	550.9	550.9	550.9	546.2	546.2	541.3	541.3	536.5	536.5	526.9	536.5
62.5°	407.2	411.9	411.9	411.9	416.8	411.9	407.2	411.9	407.2	407.2	411.9
65°	268.4	273.1	273.1	268.4	277.8	268.4	273.1	277.8	282.6	277.8	282.6
67.5°	182.0	182.0	186.9	191.7	186.9	191.7	196.4	191.7	196.4	206.1	196.4
70°	134.1	139.0	139.0	134.1	129.4	134.1	129.4	143.7	143.7	143.7	153.2
72.5°	86.2	86.2	81.4	81.4	81.4	81.4	81.4	95.8	86.2	81.4	91.1
75°	47.9	52.6	52.6	38.3	43.2	52.6	38.3	43.2	57.6	47.9	57.6
77.5°	28.8	28.8	28.8	28.8	28.8	28.8	38.3	33.5	33.5	33.5	38.3
80°	23.9	19.1	19.1	14.4	19.1	19.1	19.1	28.8	23.9	23.9	28.8
82.5°	9.7	9.7	4.7	0.0	9.7	9.7	9.7	9.7	9.7	9.7	19.1
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	9.7	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: P248892

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9801.3	9801.3	9796.6	9787.1	9767.8	9767.8	9763.0	9748.7	9739.2	9734.3	9734.3
5°	9753.4	9734.3	9715.1	9662.5	9662.5	9652.8	9624.2	9604.9	9595.4	9571.4	9561.9
7.5°	9710.4	9652.8	9619.3	9585.8	9542.8	9523.5	9490.0	9475.6	9442.0	9418.2	9403.8
10°	9604.9	9566.7	9523.5	9470.8	9437.3	9399.1	9360.6	9332.0	9288.8	9264.8	9245.6
12.5°	9533.1	9475.6	9437.3	9379.7	9322.3	9288.8	9236.2	9202.7	9159.5	9111.6	9082.8
15°	9466.1	9403.8	9351.1	9288.8	9226.5	9188.3	9126.0	9087.7	9025.4	8977.5	8944.0
17.5°	9365.5	9312.7	9255.3	9178.6	9121.2	9073.3	9006.1	8958.4	8900.8	8838.5	8804.9
20°	9260.0	9197.7	9140.3	9063.6	9006.1	8948.7	8881.6	8829.0	8761.8	8704.4	8666.1
22.5°	9121.2	9049.3	9001.3	8924.6	8857.6	8795.5	8733.2	8670.9	8608.6	8560.6	8517.5
25°	8919.9	8843.2	8790.5	8728.2	8666.1	8618.2	8541.5	8503.3	8440.9	8397.8	8354.6
27.5°	8632.4	8575.0	8527.1	8464.8	8412.2	8373.9	8316.3	8278.1	8225.2	8187.0	8153.5
30°	8211.0	8163.1	8119.9	8057.6	8019.4	7985.9	7933.0	7899.5	7861.2	7818.0	7808.6
32.5°	7645.7	7607.3	7564.3	7521.1	7492.3	7473.2	7430.0	7410.9	7372.6	7348.6	7324.7
35°	6792.9	6759.4	6735.5	6716.4	6706.7	6711.5	6702.0	6721.1	6730.6	6725.9	6730.6
37.5°	5676.9	5657.5	5667.2	5681.6	5729.5	5791.8	5849.2	5935.4	5992.9	6050.5	6103.2
40°	4431.3	4445.7	4483.9	4570.1	4694.7	4833.7	4963.1	5125.9	5288.8	5403.8	5509.1
42.5°	3343.8	3387.0	3482.6	3607.2	3794.2	4000.0	4201.3	4440.7	4637.3	4828.8	4963.1
45°	2515.1	2572.4	2697.0	2869.6	3075.4	3315.0	3569.0	3837.2	4072.0	4268.4	4416.9
47.5°	1959.4	2012.0	2136.7	2318.7	2572.4	2821.7	3085.1	3362.9	3607.2	3798.9	3928.2
50°	1547.3	1614.3	1724.5	1916.2	2170.2	2433.6	2706.7	2979.6	3209.7	3372.6	3487.5
52.5°	1216.8	1279.1	1384.4	1585.7	1844.4	2107.9	2361.6	2630.0	2831.1	2989.3	3066.0
55°	943.7	1001.3	1111.3	1279.1	1523.4	1782.1	2035.9	2266.0	2452.7	2567.7	2639.7
57.5°	718.5	761.7	838.4	1006.0	1226.5	1465.8	1681.6	1911.5	2055.2	2136.7	2184.4
60°	546.2	579.7	661.1	790.5	991.6	1197.7	1379.7	1552.2	1667.2	1734.2	1782.1
62.5°	411.9	450.4	507.7	618.0	771.2	939.0	1092.2	1221.5	1317.4	1360.6	1394.1
65°	282.6	311.3	354.5	440.7	570.1	689.7	809.6	905.5	967.8	1015.7	1034.8
67.5°	210.8	229.9	254.0	321.0	411.9	507.7	589.2	656.2	723.5	742.6	776.1
70°	158.1	172.5	196.4	244.3	297.0	364.0	431.2	469.5	517.4	550.9	560.6
72.5°	100.6	105.3	129.4	158.1	201.1	244.3	287.5	321.0	349.8	368.9	378.4
75°	57.6	86.2	86.2	115.0	143.7	162.9	191.7	215.5	229.9	244.3	244.3
77.5°	38.3	52.6	57.6	71.8	86.2	110.2	134.1	148.5	162.9	167.6	167.6
80°	33.5	38.3	38.3	52.6	62.3	81.4	95.8	100.6	110.2	115.0	124.6
82.5°	14.4	19.1	23.9	38.3	43.2	43.2	57.6	62.3	71.8	76.7	76.7
85°	4.7	9.7	9.7	14.4	23.9	28.8	33.5	38.3	43.2	43.2	47.9
87.5°	4.7	4.7	0.0	4.7	9.7	9.7	19.1	19.1	19.1	28.8	28.8
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: P248892

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0	9811.0
2.5°	9724.8	9729.5	9710.4	9705.7	9696.0	9700.7	9710.4
5°	9547.5	9552.3	9533.1	9514.0	9514.0	9509.1	9514.0
7.5°	9379.7	9384.7	9355.9	9346.2	9327.1	9332.0	9332.0
10°	9212.1	9212.1	9169.1	9164.2	9149.8	9145.1	9145.1
12.5°	9049.3	9034.9	9001.3	8982.2	8991.9	8963.1	8963.1
15°	8905.5	8881.6	8838.5	8824.1	8800.2	8790.5	8790.5
17.5°	8757.0	8737.9	8699.6	8670.9	8642.1	8637.3	8642.1
20°	8613.3	8594.2	8546.2	8527.1	8503.3	8503.3	8493.6
22.5°	8469.5	8450.4	8407.4	8393.0	8359.5	8359.5	8364.2
25°	8321.1	8306.7	8258.8	8249.3	8244.6	8225.2	8234.9
27.5°	8119.9	8110.3	8072.0	8057.6	8038.5	8033.8	8043.2
30°	7751.0	7736.6	7708.0	7693.6	7660.1	7664.8	7674.3
32.5°	7291.2	7272.1	7233.6	7219.2	7190.6	7181.0	7185.7
35°	6716.4	6702.0	6668.5	6668.5	6639.7	6630.0	6639.7
37.5°	6132.0	6146.1	6132.0	6146.1	6132.0	6127.0	6132.0
40°	5581.0	5633.7	5643.1	5696.0	5676.9	5705.4	5700.7
42.5°	5054.0	5140.1	5173.8	5216.8	5207.4	5226.5	5240.9
45°	4522.2	4594.1	4627.7	4656.4	4661.2	4670.8	4675.6
47.5°	4019.2	4076.7	4081.5	4115.0	4110.2	4110.2	4124.6
50°	3549.9	3588.1	3597.6	3621.6	3602.5	3592.8	3597.6
52.5°	3113.9	3152.1	3142.5	3152.1	3128.3	3118.6	3123.4
55°	2668.3	2687.4	2687.4	2687.4	2658.8	2658.8	2658.8
57.5°	2213.2	2218.1	2208.4	2213.2	2208.4	2179.6	2174.9
60°	1796.5	1796.5	1791.6	1796.5	1782.1	1767.7	1767.7
62.5°	1403.5	1413.2	1432.3	1413.2	1403.5	1413.2	1398.8
65°	1049.2	1068.3	1063.4	1073.1	1068.3	1068.3	1058.7
67.5°	790.5	795.2	800.0	804.9	804.9	804.9	804.9
70°	579.7	594.1	589.2	589.2	589.2	589.2	618.0
72.5°	388.1	407.2	402.4	411.9	411.9	421.6	411.9
75°	263.4	282.6	273.1	287.5	282.6	273.1	297.0
77.5°	177.3	186.9	191.7	196.4	191.7	186.9	191.7
80°	124.6	134.1	129.4	134.1	134.1	134.1	139.0
82.5°	76.7	91.1	86.2	91.1	86.2	91.1	91.1
85°	52.6	57.6	47.9	57.6	52.6	52.6	62.3
87.5°	33.5	28.8	28.8	33.5	28.8	33.5	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)