

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: P248766

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248766
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 ER8B200827 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18778.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

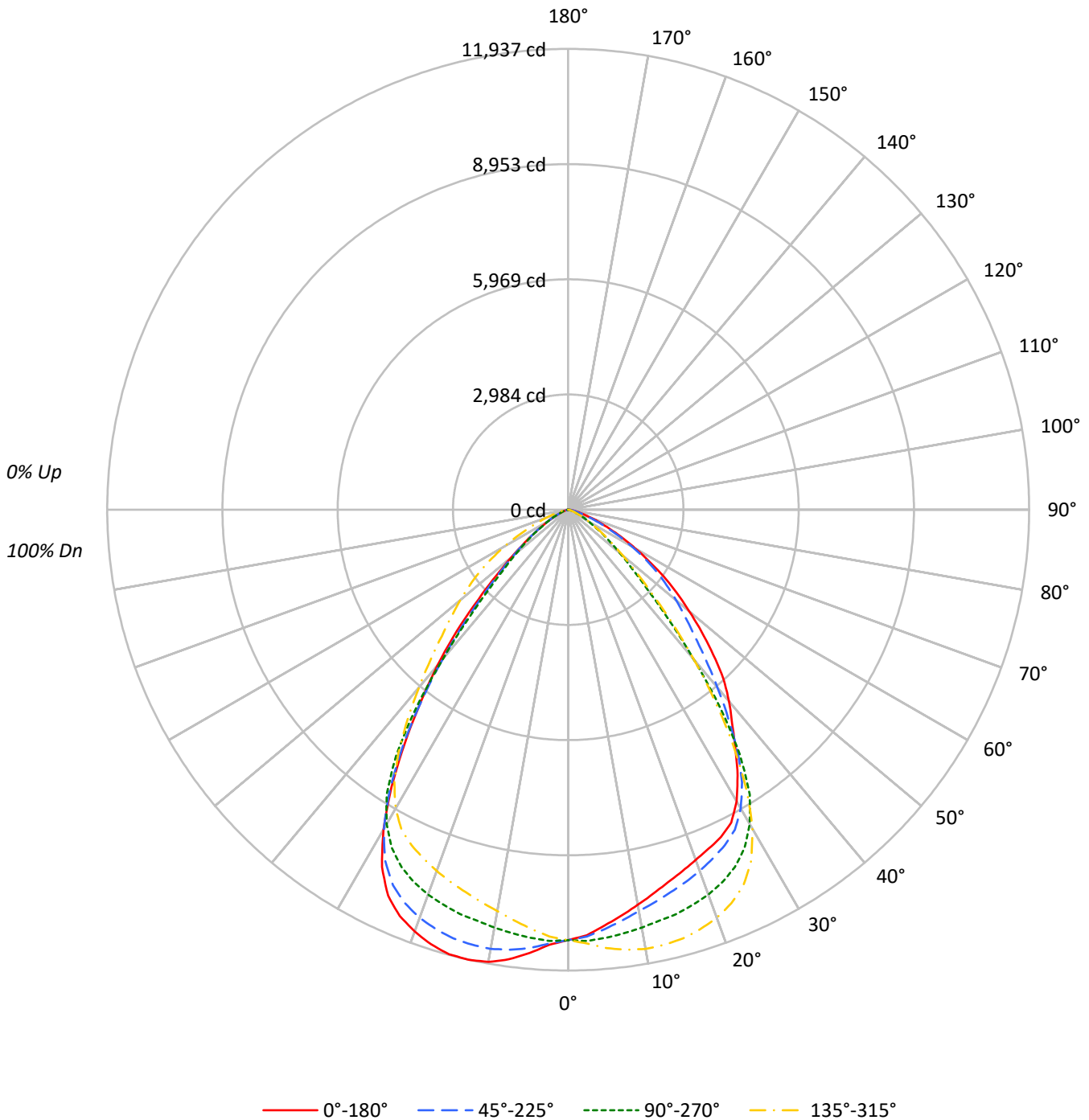
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	343760	343760	343760	343760
5°	334629	344566	356870	344566
10°	325373	344116	372409	344116
15°	318871	346159	380564	346159
20°	316701	348141	381540	348141
25°	318367	347441	375408	347441
30°	310494	334721	340738	334721
35°	284007	291995	277039	291995
40°	260749	203117	212106	203117
45°	231682	123911	143374	123911
50°	196103	82772	91921	82772
55°	162419	56482	59697	56482
60°	123876	37596	37929	37596
65°	87770	23429	21452	23429
70°	63310	15697	14245	15697
75°	40199	7792	6481	7792
80°	28058	5807	4812	5807
85°	25050	0	1911	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.1	5.7
10°-20°	3072.7	16.4
20°-30°	4652.7	24.8
30°-40°	4663.1	24.8
40°-50°	2928.2	15.6
50°-60°	1560.4	8.3
60°-70°	641.7	3.4
70°-80°	169.5	0.9
80°-90°	28.7	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°	8786.4	46.8
0°-40°	13449.5	71.6
0°-60°	17938.1	95.5
0°-90°	18778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18778.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11148	11148	11148	11148	11148	
5°	10810	11132	11529	11132	10810	###
15°	9988	10843	11921	10843	9988	2825
25°	9357	10212	11034	10212	9357	4292
35°	7544	7757	7359	7757	7544	4727
45°	5313	2841	3288	2841	5313	4086
55°	3021	1051	1110	1051	3021	2693
65°	1203	321	294	321	1203	1248
75°	337	65	54	65	337	382
85°	71	0	5	0	71	78
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°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11033.6	11022.7	11017.3	11028.3	11033.6	11055.4	11050.0	11060.7	11060.7	11066.3	11077.1
5°	10810.5	10804.9	10810.5	10810.5	10832.2	10853.9	10848.6	10864.9	10875.7	10903.0	10913.8
7.5°	10603.7	10603.7	10598.1	10619.8	10630.8	10663.5	10657.9	10685.2	10701.6	10728.7	10766.8
10°	10391.3	10391.3	10396.7	10413.0	10418.6	10467.5	10467.5	10505.5	10527.3	10554.6	10603.7
12.5°	10184.5	10184.5	10217.2	10206.2	10227.9	10266.0	10282.4	10320.5	10353.2	10407.6	10456.7
15°	9988.4	9988.4	9999.4	10026.5	10042.9	10091.9	10119.1	10162.7	10200.8	10255.3	10326.1
17.5°	9819.7	9814.3	9819.7	9852.4	9885.1	9928.6	9950.3	10004.8	10042.9	10113.7	10179.1
20°	9651.0	9662.0	9662.0	9689.1	9710.8	9765.3	9787.0	9847.1	9890.5	9955.7	10032.1
22.5°	9504.0	9498.7	9498.7	9536.7	9553.1	9601.9	9623.7	9678.1	9727.2	9781.6	9852.4
25°	9357.1	9346.1	9368.0	9373.4	9384.2	9438.6	9455.0	9493.1	9542.1	9591.2	9662.0
27.5°	9139.3	9128.5	9133.9	9155.6	9172.0	9215.5	9226.4	9264.5	9302.6	9346.1	9406.1
30°	8720.1	8709.3	8704.0	8742.0	8758.4	8790.9	8807.2	8872.7	8883.4	8932.5	8975.9
32.5°	8164.9	8159.5	8170.5	8203.0	8219.3	8263.0	8284.8	8322.8	8349.9	8377.3	8420.7
35°	7544.5	7533.5	7544.5	7577.2	7577.2	7615.3	7631.6	7647.8	7642.4	7647.8	7637.0
37.5°	6967.6	6962.0	6967.6	6983.7	6967.6	6983.7	6967.6	6934.8	6875.0	6809.6	6744.2
40°	6477.6	6482.9	6450.4	6472.2	6412.1	6401.4	6341.6	6259.8	6140.1	6009.5	5824.4
42.5°	5955.1	5938.7	5917.0	5927.7	5878.9	5840.6	5742.7	5639.4	5486.8	5269.2	5045.9
45°	5312.7	5307.3	5296.4	5291.0	5258.3	5220.2	5138.4	5018.8	4850.0	4626.9	4360.0
47.5°	4686.7	4670.4	4670.4	4675.7	4637.6	4632.3	4566.8	4463.6	4316.6	4098.8	3821.2
50°	4087.8	4082.4	4093.4	4115.2	4087.8	4077.1	4033.6	3962.8	3832.2	3647.1	3385.6
52.5°	3549.0	3543.6	3554.6	3581.7	3570.7	3581.7	3538.2	3483.8	3396.6	3216.9	2988.4
55°	3021.1	3021.1	3021.1	3053.6	3053.6	3053.6	3031.9	2999.4	2917.6	2787.0	2574.8
57.5°	2471.3	2476.7	2509.4	2514.8	2509.4	2520.4	2514.8	2482.0	2427.8	2335.3	2172.0
60°	2008.6	2008.6	2025.0	2041.3	2035.7	2041.3	2041.3	2025.0	1970.5	1894.4	1763.7
62.5°	1589.4	1605.8	1594.8	1605.8	1627.5	1605.8	1594.8	1584.0	1546.0	1496.9	1388.0
65°	1202.9	1213.9	1213.9	1219.3	1208.3	1213.9	1192.2	1175.8	1154.1	1099.6	1028.8
67.5°	914.6	914.6	914.6	914.6	909.0	903.6	898.2	881.9	843.8	822.0	745.6
70°	702.2	669.5	669.5	669.5	669.5	675.1	658.7	637.0	626.0	587.9	533.5
72.5°	468.0	479.0	468.0	468.0	457.3	462.7	440.9	430.0	419.2	397.5	364.8
75°	337.4	310.3	321.1	326.7	310.3	321.1	299.3	277.6	277.6	261.2	244.9
77.5°	217.8	212.4	217.8	223.2	217.8	212.4	201.4	190.4	190.4	185.1	168.7
80°	158.0	152.4	152.4	152.4	147.0	152.4	141.6	141.6	130.6	125.2	114.3
82.5°	103.5	103.5	97.9	103.5	97.9	103.5	87.2	87.2	87.2	81.6	70.8
85°	70.8	59.8	59.8	65.4	54.4	65.4	59.8	54.4	49.1	49.1	43.5
87.5°	32.7	38.1	32.7	38.1	32.7	32.7	38.1	32.7	32.7	21.7	21.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11093.5	11098.8	11098.8	11120.8	11131.5	11136.9	11136.9	11180.6	11164.3	11175.2	11186.0
5°	10935.7	10968.2	10979.2	10979.2	11039.0	11060.7	11082.5	11131.5	11136.9	11169.6	11207.7
7.5°	10783.1	10821.2	10843.2	10892.0	10930.1	10968.2	11033.6	11066.3	11098.8	11142.5	11191.4
10°	10636.2	10679.9	10723.3	10761.4	10821.2	10870.3	10913.8	10989.9	11028.3	11088.1	11153.3
12.5°	10494.8	10554.6	10592.7	10657.9	10723.3	10766.8	10832.2	10903.0	10962.8	11022.7	11098.8
15°	10369.5	10440.3	10483.8	10554.6	10625.4	10685.2	10756.0	10843.2	10886.7	10957.5	11028.3
17.5°	10233.3	10309.7	10364.2	10429.4	10516.5	10581.7	10641.8	10728.7	10783.1	10859.3	10941.1
20°	10091.9	10168.1	10233.3	10298.7	10385.9	10451.1	10521.9	10609.1	10668.9	10745.1	10810.5
22.5°	9923.2	9994.0	10064.6	10140.8	10227.9	10282.4	10364.2	10440.3	10505.5	10576.3	10641.8
25°	9705.5	9792.6	9847.1	9917.6	9988.4	10048.3	10135.4	10211.6	10266.0	10331.5	10391.3
27.5°	9449.6	9515.0	9558.5	9618.3	9689.1	9743.5	9808.7	9885.1	9939.6	9999.4	10042.9
30°	9014.0	9074.1	9112.2	9155.6	9226.4	9275.5	9330.0	9400.5	9438.6	9482.3	9520.4
32.5°	8442.5	8491.5	8513.3	8546.0	8595.1	8643.9	8687.6	8747.4	8763.8	8790.9	8790.9
35°	7615.3	7626.0	7620.7	7631.6	7653.4	7680.5	7718.6	7756.7	7778.4	7778.4	7762.3
37.5°	6646.3	6581.1	6510.3	6455.8	6439.5	6428.5	6450.4	6466.6	6488.5	6499.3	6472.2
40°	5639.4	5492.4	5334.4	5192.8	5094.9	5051.5	5035.1	5045.9	5045.9	5084.0	5084.0
42.5°	4773.9	4545.1	4311.2	4098.8	3957.2	3848.5	3799.5	3799.5	3804.8	3832.2	3848.5
45°	4055.3	3766.8	3494.5	3260.6	3064.6	2923.0	2857.8	2841.4	2836.0	2846.8	2884.9
47.5°	3505.5	3206.2	2923.0	2634.6	2427.8	2286.2	2226.4	2204.4	2182.7	2204.4	2210.0
50°	3075.6	2765.2	2465.9	2177.3	1959.6	1834.3	1758.1	1725.4	1720.0	1720.0	1731.0
52.5°	2683.5	2395.1	2095.8	1801.8	1573.1	1453.4	1382.6	1366.3	1344.5	1366.3	1366.3
55°	2313.3	2025.0	1731.0	1453.4	1262.8	1137.7	1072.3	1050.6	1039.6	1056.0	1056.0
57.5°	1910.7	1665.6	1393.6	1143.1	952.7	865.5	816.4	789.3	783.7	794.7	783.7
60°	1567.7	1360.9	1126.8	898.2	751.2	658.7	620.6	609.6	598.7	609.6	609.6
62.5°	1241.0	1066.9	876.3	702.2	576.9	511.7	468.0	468.0	462.7	462.7	468.0
65°	920.0	783.7	647.7	500.8	402.8	353.8	321.1	321.1	315.7	321.1	315.7
67.5°	669.5	576.9	468.0	364.8	288.6	261.2	239.5	223.2	234.1	223.2	217.8
70°	490.0	413.6	337.4	277.6	223.2	196.0	179.7	174.1	163.3	163.3	163.3
72.5°	326.7	277.6	228.5	179.7	147.0	119.6	114.3	103.5	92.5	97.9	108.9
75°	217.8	185.1	163.3	130.6	97.9	97.9	65.4	65.4	54.4	65.4	49.1
77.5°	152.4	125.2	97.9	81.6	65.4	59.8	43.5	43.5	38.1	38.1	38.1
80°	108.9	92.5	70.8	59.8	43.5	43.5	38.1	32.7	27.1	27.1	32.7
82.5°	65.4	49.1	49.1	43.5	27.1	21.7	16.4	21.7	11.0	11.0	11.0
85°	38.1	32.7	27.1	16.4	11.0	11.0	5.4	0.0	5.4	5.4	0.0
87.5°	21.7	11.0	11.0	5.4	0.0	5.4	5.4	0.0	0.0	0.0	11.0
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°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11213.3	11207.7	11218.7	11218.7	11251.4	11245.8	11262.2	11262.2	11251.4	11256.8	11278.5
5°	11251.4	11267.8	11300.3	11327.6	11376.4	11398.4	11425.5	11452.8	11458.2	11474.6	11490.9
7.5°	11251.4	11305.9	11343.9	11392.8	11458.2	11496.3	11556.1	11605.2	11626.9	11654.0	11686.7
10°	11229.5	11283.9	11354.7	11409.1	11490.9	11550.7	11610.6	11686.7	11719.5	11762.9	11806.6
12.5°	11186.0	11245.8	11322.0	11392.8	11485.3	11539.8	11615.9	11686.7	11735.8	11795.6	11844.7
15°	11120.8	11191.4	11262.2	11333.0	11430.9	11496.3	11567.1	11648.7	11697.7	11762.9	11806.6
17.5°	11017.3	11093.5	11158.9	11224.1	11316.6	11392.8	11458.2	11534.4	11583.5	11637.9	11697.7
20°	10892.0	10962.8	11033.6	11088.1	11180.6	11245.8	11316.6	11387.4	11425.5	11436.5	11529.0
22.5°	10734.3	10783.1	10837.6	10924.7	10979.2	11039.0	11104.4	11169.6	11207.7	11267.8	11300.3
25°	10472.8	10521.9	10581.7	10619.8	10685.2	10734.3	10799.5	10870.3	10892.0	10935.7	10968.2
27.5°	10108.3	10135.4	10162.7	10195.2	10233.3	10260.7	10298.7	10331.5	10353.2	10374.9	10396.7
30°	9531.1	9531.1	9531.1	9509.4	9525.8	9542.1	9547.5	9542.1	9542.1	9536.7	9536.7
32.5°	8769.1	8725.7	8676.6	8633.2	8616.8	8595.1	8584.1	8567.7	8540.6	8524.3	8529.6
35°	7740.3	7642.4	7582.6	7528.1	7484.7	7452.0	7435.6	7419.2	7413.9	7392.1	7370.2
37.5°	6455.8	6385.0	6341.6	6308.8	6270.8	6238.0	6243.4	6249.0	6265.2	6254.4	6259.8
40°	5094.9	5078.6	5094.9	5056.8	5045.9	5056.8	5084.0	5122.3	5144.0	5165.7	5203.8
42.5°	3875.6	3902.8	3941.1	3941.1	3957.2	3979.2	4011.6	4071.7	4104.2	4142.3	4186.0
45°	2917.6	2950.3	2999.4	3015.5	3026.5	3053.6	3091.9	3140.8	3162.5	3195.2	3233.3
47.5°	2248.1	2269.9	2297.0	2324.3	2351.4	2362.4	2400.5	2400.5	2427.8	2449.6	2460.3
50°	1752.8	1774.5	1796.2	1812.6	1823.6	1839.9	1850.7	1867.0	1872.4	1883.4	1888.8
52.5°	1371.6	1399.0	1399.0	1409.7	1426.1	1442.4	1437.1	1442.4	1447.8	1447.8	1464.2
55°	1072.3	1072.3	1088.7	1088.7	1099.6	1094.0	1099.6	1099.6	1099.6	1099.6	1105.0
57.5°	800.1	805.7	822.0	811.1	805.7	816.4	805.7	816.4	811.1	822.0	805.7
60°	615.0	615.0	620.6	620.6	626.0	626.0	626.0	620.6	620.6	615.0	615.0
62.5°	462.7	468.0	473.6	468.0	468.0	468.0	462.7	462.7	457.3	451.7	451.7
65°	310.3	304.9	315.7	304.9	310.3	310.3	304.9	310.3	294.0	299.3	294.0
67.5°	223.2	217.8	212.4	217.8	212.4	206.8	206.8	212.4	217.8	201.4	201.4
70°	147.0	152.4	147.0	152.4	158.0	158.0	152.4	147.0	152.4	141.6	147.0
72.5°	92.5	92.5	92.5	92.5	92.5	97.9	97.9	97.9	87.2	87.2	81.6
75°	43.5	59.8	49.1	43.5	59.8	59.8	54.4	54.4	49.1	49.1	49.1
77.5°	43.5	32.7	32.7	32.7	32.7	32.7	32.7	32.7	27.1	32.7	27.1
80°	21.7	21.7	21.7	16.4	21.7	21.7	27.1	21.7	21.7	16.4	27.1
82.5°	11.0	11.0	11.0	0.0	5.4	11.0	11.0	5.4	11.0	11.0	5.4
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: P248766

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11273.1	11267.8	11273.1	11278.5	11273.1	11267.8	11273.1	11278.5	11256.8	11251.4	11262.2
5°	11512.7	11512.7	11523.4	11529.0	11523.4	11512.7	11512.7	11490.9	11474.6	11458.2	11452.8
7.5°	11719.5	11730.4	11741.2	11746.6	11741.2	11730.4	11719.5	11686.7	11654.0	11626.9	11605.2
10°	11844.7	11861.1	11882.8	11893.5	11882.8	11861.1	11844.7	11806.6	11762.9	11719.5	11686.7
12.5°	11899.1	11915.5	11942.6	11937.2	11942.6	11915.5	11899.1	11844.7	11795.6	11735.8	11686.7
15°	11861.1	11882.8	11909.9	11920.9	11909.9	11882.8	11861.1	11806.6	11762.9	11697.7	11648.7
17.5°	11741.2	11773.9	11790.3	11806.6	11790.3	11773.9	11741.2	11697.7	11637.9	11583.5	11534.4
20°	11577.9	11599.8	11621.5	11626.9	11621.5	11599.8	11577.9	11529.0	11436.5	11425.5	11387.4
22.5°	11343.9	11360.3	11409.1	11392.8	11409.1	11360.3	11343.9	11300.3	11267.8	11207.7	11169.6
25°	11006.3	11022.7	11028.3	11033.6	11028.3	11022.7	11006.3	10968.2	10935.7	10892.0	10870.3
27.5°	10424.0	10424.0	10434.7	10440.3	10434.7	10424.0	10424.0	10396.7	10374.9	10353.2	10331.5
30°	9542.1	9542.1	9542.1	9569.5	9542.1	9542.1	9542.1	9536.7	9536.7	9542.1	9542.1
32.5°	8524.3	8513.3	8502.5	8513.3	8502.5	8513.3	8524.3	8529.6	8524.3	8540.6	8567.7
35°	7370.2	7364.8	7381.2	7359.4	7381.2	7364.8	7370.2	7370.2	7392.1	7413.9	7419.2
37.5°	6265.2	6254.4	6276.1	6254.4	6276.1	6254.4	6265.2	6259.8	6254.4	6265.2	6249.0
40°	5214.8	5225.6	5225.6	5269.2	5225.6	5225.6	5214.8	5203.8	5165.7	5144.0	5122.3
42.5°	4207.7	4240.4	4229.4	4262.1	4229.4	4240.4	4207.7	4186.0	4142.3	4104.2	4071.7
45°	3255.0	3277.0	3277.0	3287.7	3277.0	3277.0	3255.0	3233.3	3195.2	3162.5	3140.8
47.5°	2498.4	2498.4	2498.4	2504.0	2498.4	2498.4	2498.4	2460.3	2449.6	2427.8	2400.5
50°	1899.7	1905.1	1910.7	1916.1	1910.7	1905.1	1899.7	1888.8	1883.4	1872.4	1867.0
52.5°	1458.8	1464.2	1453.4	1464.2	1453.4	1464.2	1458.8	1464.2	1447.8	1447.8	1442.4
55°	1105.0	1099.6	1105.0	1110.4	1105.0	1099.6	1105.0	1105.0	1099.6	1099.6	1099.6
57.5°	811.1	800.1	800.1	800.1	800.1	800.1	811.1	805.7	822.0	811.1	816.4
60°	604.3	609.6	609.6	615.0	609.6	609.6	604.3	615.0	615.0	620.6	620.6
62.5°	446.3	462.7	451.7	462.7	451.7	462.7	446.3	451.7	451.7	457.3	462.7
65°	288.6	288.6	288.6	294.0	288.6	288.6	288.6	294.0	299.3	294.0	310.3
67.5°	196.0	201.4	212.4	206.8	212.4	201.4	196.0	201.4	201.4	217.8	212.4
70°	158.0	141.6	141.6	158.0	141.6	141.6	158.0	147.0	141.6	152.4	147.0
72.5°	92.5	81.6	92.5	92.5	92.5	81.6	92.5	81.6	87.2	87.2	97.9
75°	49.1	43.5	38.1	54.4	38.1	43.5	49.1	49.1	49.1	49.1	54.4
77.5°	32.7	27.1	38.1	38.1	38.1	27.1	32.7	27.1	32.7	27.1	32.7
80°	16.4	21.7	16.4	27.1	16.4	21.7	16.4	27.1	16.4	21.7	21.7
82.5°	5.4	11.0	11.0	11.0	11.0	11.0	5.4	5.4	11.0	11.0	5.4
85°	0.0	11.0	5.4	5.4	5.4	11.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	0.0	0.0	5.4	0.0	0.0	5.4	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: P248766

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11262.2	11245.8	11251.4	11218.7	11218.7	11207.7	11213.3	11186.0	11175.2	11164.3	11180.6
5°	11425.5	11398.4	11376.4	11327.6	11300.3	11267.8	11251.4	11207.7	11169.6	11136.9	11131.5
7.5°	11556.1	11496.3	11458.2	11392.8	11343.9	11305.9	11251.4	11191.4	11142.5	11098.8	11066.3
10°	11610.6	11550.7	11490.9	11409.1	11354.7	11283.9	11229.5	11153.3	11088.1	11028.3	10989.9
12.5°	11615.9	11539.8	11485.3	11392.8	11322.0	11245.8	11186.0	11098.8	11022.7	10962.8	10903.0
15°	11567.1	11496.3	11430.9	11333.0	11262.2	11191.4	11120.8	11028.3	10957.5	10886.7	10843.2
17.5°	11458.2	11392.8	11316.6	11224.1	11158.9	11093.5	11017.3	10941.1	10859.3	10783.1	10728.7
20°	11316.6	11245.8	11180.6	11088.1	11033.6	10962.8	10892.0	10810.5	10745.1	10668.9	10609.1
22.5°	11104.4	11039.0	10979.2	10924.7	10837.6	10783.1	10734.3	10641.8	10576.3	10505.5	10440.3
25°	10799.5	10734.3	10685.2	10619.8	10581.7	10521.9	10472.8	10391.3	10331.5	10266.0	10211.6
27.5°	10298.7	10260.7	10233.3	10195.2	10162.7	10135.4	10108.3	10042.9	9999.4	9939.6	9885.1
30°	9547.5	9542.1	9525.8	9509.4	9531.1	9531.1	9531.1	9520.4	9482.3	9438.6	9400.5
32.5°	8584.1	8595.1	8616.8	8633.2	8676.6	8725.7	8769.1	8790.9	8790.9	8763.8	8747.4
35°	7435.6	7452.0	7484.7	7528.1	7582.6	7642.4	7740.3	7762.3	7778.4	7778.4	7756.7
37.5°	6243.4	6238.0	6270.8	6308.8	6341.6	6385.0	6455.8	6472.2	6499.3	6488.5	6466.6
40°	5084.0	5056.8	5045.9	5056.8	5094.9	5078.6	5094.9	5084.0	5084.0	5045.9	5045.9
42.5°	4011.6	3979.2	3957.2	3941.1	3941.1	3902.8	3875.6	3848.5	3832.2	3804.8	3799.5
45°	3091.9	3053.6	3026.5	3015.5	2999.4	2950.3	2917.6	2884.9	2846.8	2836.0	2841.4
47.5°	2400.5	2362.4	2351.4	2324.3	2297.0	2269.9	2248.1	2210.0	2204.4	2182.7	2204.4
50°	1850.7	1839.9	1823.6	1812.6	1796.2	1774.5	1752.8	1731.0	1720.0	1720.0	1725.4
52.5°	1437.1	1442.4	1426.1	1409.7	1399.0	1399.0	1371.6	1366.3	1366.3	1344.5	1366.3
55°	1099.6	1094.0	1099.6	1088.7	1088.7	1072.3	1072.3	1056.0	1056.0	1039.6	1050.6
57.5°	805.7	816.4	805.7	811.1	822.0	805.7	800.1	783.7	794.7	783.7	789.3
60°	626.0	626.0	626.0	620.6	620.6	615.0	615.0	609.6	609.6	598.7	609.6
62.5°	462.7	468.0	468.0	468.0	473.6	468.0	462.7	468.0	462.7	462.7	468.0
65°	304.9	310.3	310.3	304.9	315.7	304.9	310.3	315.7	321.1	315.7	321.1
67.5°	206.8	206.8	212.4	217.8	212.4	217.8	223.2	217.8	223.2	234.1	223.2
70°	152.4	158.0	158.0	152.4	147.0	152.4	147.0	163.3	163.3	163.3	174.1
72.5°	97.9	97.9	92.5	92.5	92.5	92.5	92.5	108.9	97.9	92.5	103.5
75°	54.4	59.8	59.8	43.5	49.1	59.8	43.5	49.1	65.4	54.4	65.4
77.5°	32.7	32.7	32.7	32.7	32.7	32.7	43.5	38.1	38.1	38.1	43.5
80°	27.1	21.7	21.7	16.4	21.7	21.7	21.7	32.7	27.1	27.1	32.7
82.5°	11.0	11.0	5.4	0.0	11.0	11.0	11.0	11.0	11.0	11.0	21.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	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: P248766

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11136.9	11136.9	11131.5	11120.8	11098.8	11098.8	11093.5	11077.1	11066.3	11060.7	11060.7
5°	11082.5	11060.7	11039.0	10979.2	10979.2	10968.2	10935.7	10913.8	10903.0	10875.7	10864.9
7.5°	11033.6	10968.2	10930.1	10892.0	10843.2	10821.2	10783.1	10766.8	10728.7	10701.6	10685.2
10°	10913.8	10870.3	10821.2	10761.4	10723.3	10679.9	10636.2	10603.7	10554.6	10527.3	10505.5
12.5°	10832.2	10766.8	10723.3	10657.9	10592.7	10554.6	10494.8	10456.7	10407.6	10353.2	10320.5
15°	10756.0	10685.2	10625.4	10554.6	10483.8	10440.3	10369.5	10326.1	10255.3	10200.8	10162.7
17.5°	10641.8	10581.7	10516.5	10429.4	10364.2	10309.7	10233.3	10179.1	10113.7	10042.9	10004.8
20°	10521.9	10451.1	10385.9	10298.7	10233.3	10168.1	10091.9	10032.1	9955.7	9890.5	9847.1
22.5°	10364.2	10282.4	10227.9	10140.8	10064.6	9994.0	9923.2	9852.4	9781.6	9727.2	9678.1
25°	10135.4	10048.3	9988.4	9917.6	9847.1	9792.6	9705.5	9662.0	9591.2	9542.1	9493.1
27.5°	9808.7	9743.5	9689.1	9618.3	9558.5	9515.0	9449.6	9406.1	9346.1	9302.6	9264.5
30°	9330.0	9275.5	9226.4	9155.6	9112.2	9074.1	9014.0	8975.9	8932.5	8883.4	8872.7
32.5°	8687.6	8643.9	8595.1	8546.0	8513.3	8491.5	8442.5	8420.7	8377.3	8349.9	8322.8
35°	7718.6	7680.5	7653.4	7631.6	7620.7	7626.0	7615.3	7637.0	7647.8	7642.4	7647.8
37.5°	6450.4	6428.5	6439.5	6455.8	6510.3	6581.1	6646.3	6744.2	6809.6	6875.0	6934.8
40°	5035.1	5051.5	5094.9	5192.8	5334.4	5492.4	5639.4	5824.4	6009.5	6140.1	6259.8
42.5°	3799.5	3848.5	3957.2	4098.8	4311.2	4545.1	4773.9	5045.9	5269.2	5486.8	5639.4
45°	2857.8	2923.0	3064.6	3260.6	3494.5	3766.8	4055.3	4360.0	4626.9	4850.0	5018.8
47.5°	2226.4	2286.2	2427.8	2634.6	2923.0	3206.2	3505.5	3821.2	4098.8	4316.6	4463.6
50°	1758.1	1834.3	1959.6	2177.3	2465.9	2765.2	3075.6	3385.6	3647.1	3832.2	3962.8
52.5°	1382.6	1453.4	1573.1	1801.8	2095.8	2395.1	2683.5	2988.4	3216.9	3396.6	3483.8
55°	1072.3	1137.7	1262.8	1453.4	1731.0	2025.0	2313.3	2574.8	2787.0	2917.6	2999.4
57.5°	816.4	865.5	952.7	1143.1	1393.6	1665.6	1910.7	2172.0	2335.3	2427.8	2482.0
60°	620.6	658.7	751.2	898.2	1126.8	1360.9	1567.7	1763.7	1894.4	1970.5	2025.0
62.5°	468.0	511.7	576.9	702.2	876.3	1066.9	1241.0	1388.0	1496.9	1546.0	1584.0
65°	321.1	353.8	402.8	500.8	647.7	783.7	920.0	1028.8	1099.6	1154.1	1175.8
67.5°	239.5	261.2	288.6	364.8	468.0	576.9	669.5	745.6	822.0	843.8	881.9
70°	179.7	196.0	223.2	277.6	337.4	413.6	490.0	533.5	587.9	626.0	637.0
72.5°	114.3	119.6	147.0	179.7	228.5	277.6	326.7	364.8	397.5	419.2	430.0
75°	65.4	97.9	97.9	130.6	163.3	185.1	217.8	244.9	261.2	277.6	277.6
77.5°	43.5	59.8	65.4	81.6	97.9	125.2	152.4	168.7	185.1	190.4	190.4
80°	38.1	43.5	43.5	59.8	70.8	92.5	108.9	114.3	125.2	130.6	141.6
82.5°	16.4	21.7	27.1	43.5	49.1	49.1	65.4	70.8	81.6	87.2	87.2
85°	5.4	11.0	11.0	16.4	27.1	32.7	38.1	43.5	49.1	49.1	54.4
87.5°	5.4	5.4	0.0	5.4	11.0	11.0	21.7	21.7	21.7	32.7	32.7
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: P248766

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9	11147.9
2.5°	11050.0	11055.4	11033.6	11028.3	11017.3	11022.7	11033.6
5°	10848.6	10853.9	10832.2	10810.5	10810.5	10804.9	10810.5
7.5°	10657.9	10663.5	10630.8	10619.8	10598.1	10603.7	10603.7
10°	10467.5	10467.5	10418.6	10413.0	10396.7	10391.3	10391.3
12.5°	10282.4	10266.0	10227.9	10206.2	10217.2	10184.5	10184.5
15°	10119.1	10091.9	10042.9	10026.5	9999.4	9988.4	9988.4
17.5°	9950.3	9928.6	9885.1	9852.4	9819.7	9814.3	9819.7
20°	9787.0	9765.3	9710.8	9689.1	9662.0	9662.0	9651.0
22.5°	9623.7	9601.9	9553.1	9536.7	9498.7	9498.7	9504.0
25°	9455.0	9438.6	9384.2	9373.4	9368.0	9346.1	9357.1
27.5°	9226.4	9215.5	9172.0	9155.6	9133.9	9128.5	9139.3
30°	8807.2	8790.9	8758.4	8742.0	8704.0	8709.3	8720.1
32.5°	8284.8	8263.0	8219.3	8203.0	8170.5	8159.5	8164.9
35°	7631.6	7615.3	7577.2	7577.2	7544.5	7533.5	7544.5
37.5°	6967.6	6983.7	6967.6	6983.7	6967.6	6962.0	6967.6
40°	6341.6	6401.4	6412.1	6472.2	6450.4	6482.9	6477.6
42.5°	5742.7	5840.6	5878.9	5927.7	5917.0	5938.7	5955.1
45°	5138.4	5220.2	5258.3	5291.0	5296.4	5307.3	5312.7
47.5°	4566.8	4632.3	4637.6	4675.7	4670.4	4670.4	4686.7
50°	4033.6	4077.1	4087.8	4115.2	4093.4	4082.4	4087.8
52.5°	3538.2	3581.7	3570.7	3581.7	3554.6	3543.6	3549.0
55°	3031.9	3053.6	3053.6	3053.6	3021.1	3021.1	3021.1
57.5°	2514.8	2520.4	2509.4	2514.8	2509.4	2476.7	2471.3
60°	2041.3	2041.3	2035.7	2041.3	2025.0	2008.6	2008.6
62.5°	1594.8	1605.8	1627.5	1605.8	1594.8	1605.8	1589.4
65°	1192.2	1213.9	1208.3	1219.3	1213.9	1213.9	1202.9
67.5°	898.2	903.6	909.0	914.6	914.6	914.6	914.6
70°	658.7	675.1	669.5	669.5	669.5	669.5	702.2
72.5°	440.9	462.7	457.3	468.0	468.0	479.0	468.0
75°	299.3	321.1	310.3	326.7	321.1	310.3	337.4
77.5°	201.4	212.4	217.8	223.2	217.8	212.4	217.8
80°	141.6	152.4	147.0	152.4	152.4	152.4	158.0
82.5°	87.2	103.5	97.9	103.5	97.9	103.5	103.5
85°	59.8	65.4	54.4	65.4	59.8	59.8	70.8
87.5°	38.1	32.7	32.7	38.1	32.7	38.1	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)