

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: P248937

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248937  
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 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14093.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 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

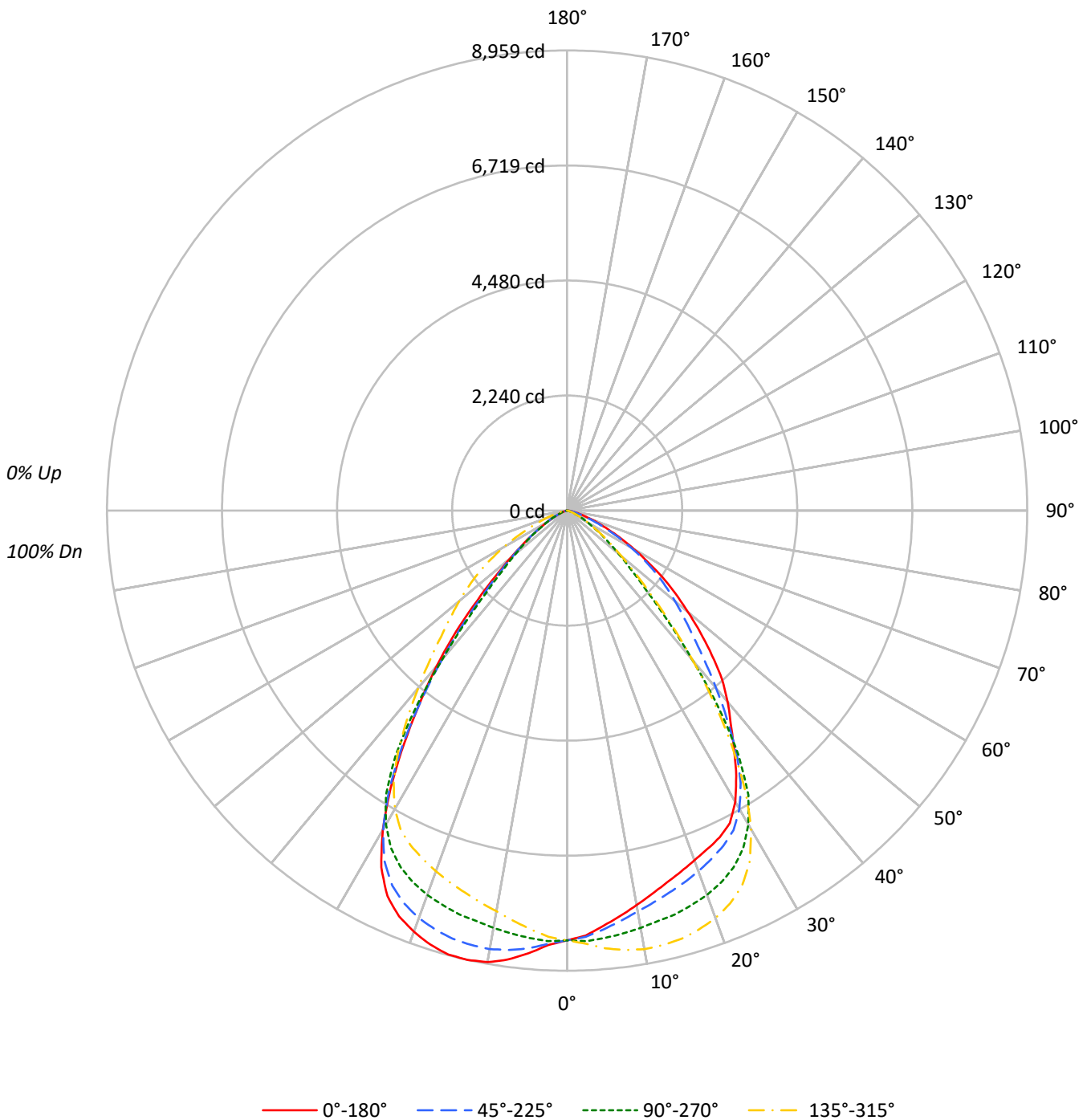
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	257995	257995	257995	257995
5°	251140	258600	267833	258600
10°	244193	258261	279497	258261
15°	239316	259795	285615	259795
20°	237685	261282	286350	261282
25°	238934	260757	281747	260757
30°	233028	251212	255724	251212
35°	213149	219142	207920	219142
40°	195691	152438	159188	152438
45°	173878	92996	107606	92996
50°	147176	62120	68985	62120
55°	121899	42391	44805	42391
60°	92971	28215	28468	28215
65°	65873	17585	16096	17585
70°	47514	11784	10684	11784
75°	30167	5850	4873	5850
80°	21043	4368	3605	4368
85°	18787	0	1415	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.3	5.7
10°-20°	2306.0	16.4
20°-30°	3491.9	24.8
30°-40°	3499.7	24.8
40°-50°	2197.6	15.6
50°-60°	1171.1	8.3
60°-70°	481.6	3.4
70°-80°	127.2	0.9
80°-90°	21.5	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°	6594.2	46.8
0°-40°	10093.9	71.6
0°-60°	13462.7	95.5
0°-90°	14093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8367	8367	8367	8367	8367	
5°	8113	8354	8653	8354	8113	765
15°	7496	8138	8947	8138	7496	2120
25°	7022	7664	8281	7664	7022	3221
35°	5662	5821	5523	5821	5662	3547
45°	3987	2132	2468	2132	3987	3066
55°	2267	788	833	788	2267	2021
65°	903	241	221	241	903	937
75°	253	49	41	49	253	287
85°	53	0	4	0	53	58
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°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8280.8	8272.6	8268.5	8276.8	8280.8	8297.1	8293.1	8301.2	8301.2	8305.4	8313.4
5°	8113.3	8109.1	8113.3	8113.3	8129.6	8146.0	8141.9	8154.2	8162.3	8182.8	8190.8
7.5°	7958.1	7958.1	7953.9	7970.2	7978.5	8003.0	7998.8	8019.3	8031.6	8052.0	8080.5
10°	7798.7	7798.7	7802.8	7815.0	7819.2	7855.9	7855.9	7884.5	7900.8	7921.3	7958.1
12.5°	7643.5	7643.5	7668.1	7659.8	7676.1	7704.7	7717.0	7745.6	7770.1	7811.0	7847.8
15°	7496.4	7496.4	7504.6	7525.0	7537.2	7574.1	7594.4	7627.2	7655.8	7696.7	7749.8
17.5°	7369.8	7365.7	7369.8	7394.3	7418.9	7451.5	7467.8	7508.7	7537.2	7590.4	7639.5
20°	7243.1	7251.4	7251.4	7271.7	7288.0	7328.9	7345.2	7390.3	7422.9	7471.8	7529.2
22.5°	7132.8	7128.8	7128.8	7157.4	7169.7	7206.3	7222.6	7263.5	7300.3	7341.2	7394.3
25°	7022.5	7014.3	7030.8	7034.8	7042.9	7083.7	7096.0	7124.6	7161.4	7198.2	7251.4
27.5°	6859.1	6851.0	6855.1	6871.4	6883.6	6916.3	6924.5	6953.1	6981.7	7014.3	7059.4
30°	6544.5	6536.4	6532.4	6561.0	6573.2	6597.6	6609.9	6659.0	6667.1	6703.9	6736.5
32.5°	6127.8	6123.8	6132.0	6156.4	6168.7	6201.4	6217.8	6246.3	6266.7	6287.2	6319.8
35°	5662.2	5653.9	5662.2	5686.7	5686.7	5715.3	5727.6	5739.7	5735.7	5739.7	5731.6
37.5°	5229.2	5225.0	5229.2	5241.3	5229.2	5241.3	5229.2	5204.6	5159.7	5110.6	5061.5
40°	4861.4	4865.5	4841.1	4857.4	4812.3	4804.3	4759.4	4698.0	4608.2	4510.2	4371.3
42.5°	4469.3	4457.0	4440.7	4448.8	4412.1	4383.4	4309.9	4232.4	4117.9	3954.6	3786.9
45°	3987.2	3983.2	3974.9	3970.9	3946.4	3917.8	3856.4	3766.6	3640.0	3472.5	3272.2
47.5°	3517.4	3505.1	3505.1	3509.2	3480.6	3476.5	3427.4	3349.9	3239.6	3076.2	2867.8
50°	3067.9	3063.9	3072.1	3088.4	3067.9	3059.9	3027.2	2974.1	2876.1	2737.2	2540.9
52.5°	2663.5	2659.5	2667.7	2688.1	2679.8	2688.1	2655.5	2614.6	2549.2	2414.3	2242.8
55°	2267.4	2267.4	2267.4	2291.7	2291.7	2291.7	2275.4	2251.0	2189.7	2091.6	1932.4
57.5°	1854.7	1858.8	1883.3	1887.3	1883.3	1891.5	1887.3	1862.8	1822.1	1752.6	1630.1
60°	1507.5	1507.5	1519.8	1532.0	1527.8	1532.0	1532.0	1519.8	1478.9	1421.7	1323.7
62.5°	1192.9	1205.1	1196.9	1205.1	1221.5	1205.1	1196.9	1188.8	1160.2	1123.4	1041.7
65°	902.8	911.0	911.0	915.1	906.8	911.0	894.7	882.5	866.2	825.3	772.2
67.5°	686.4	686.4	686.4	686.4	682.2	678.2	674.1	661.8	633.3	616.9	559.6
70°	527.0	502.4	502.4	502.4	502.4	506.6	494.4	478.1	469.8	441.2	400.4
72.5°	351.3	359.5	351.3	351.3	343.2	347.2	330.9	322.7	314.6	298.3	273.8
75°	253.2	232.9	241.0	245.2	232.9	241.0	224.7	208.3	208.3	196.1	183.8
77.5°	163.4	159.4	163.4	167.5	163.4	159.4	151.2	142.9	142.9	138.9	126.6
80°	118.5	114.3	114.3	114.3	110.3	114.3	106.3	106.3	98.0	94.0	85.8
82.5°	77.7	77.7	73.5	77.7	73.5	77.7	65.4	65.4	65.4	61.2	53.1
85°	53.1	44.9	44.9	49.1	40.9	49.1	44.9	40.9	36.8	36.8	32.6
87.5°	24.6	28.6	24.6	28.6	24.6	24.6	28.6	24.6	24.6	16.3	16.3
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°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8325.7	8329.7	8329.7	8346.2	8354.3	8358.3	8358.3	8391.1	8378.8	8387.1	8395.2
5°	8207.3	8231.7	8239.9	8239.9	8284.8	8301.2	8317.5	8354.3	8358.3	8382.9	8411.5
7.5°	8092.8	8121.4	8137.9	8174.5	8203.1	8231.7	8280.8	8305.4	8329.7	8362.5	8399.2
10°	7982.5	8015.3	8047.9	8076.5	8121.4	8158.2	8190.8	8248.0	8276.8	8321.7	8370.6
12.5°	7876.4	7921.3	7949.9	7998.8	8047.9	8080.5	8129.6	8182.8	8227.7	8272.6	8329.7
15°	7782.4	7835.5	7868.2	7921.3	7974.4	8019.3	8072.5	8137.9	8170.5	8223.6	8276.8
17.5°	7680.2	7737.5	7778.4	7827.3	7892.7	7941.6	7986.7	8052.0	8092.8	8150.0	8211.4
20°	7574.1	7631.2	7680.2	7729.3	7794.7	7843.6	7896.8	7962.2	8007.1	8064.2	8113.3
22.5°	7447.4	7500.6	7553.6	7610.7	7676.1	7717.0	7778.4	7835.5	7884.5	7937.6	7986.7
25°	7284.0	7349.4	7390.3	7443.2	7496.4	7541.3	7606.7	7663.9	7704.7	7753.8	7798.7
27.5°	7092.0	7141.1	7173.7	7218.6	7271.7	7312.6	7361.5	7418.9	7459.7	7504.6	7537.2
30°	6765.1	6810.2	6838.7	6871.4	6924.5	6961.3	7002.2	7055.2	7083.7	7116.5	7145.1
32.5°	6336.1	6373.0	6389.3	6413.8	6450.6	6487.3	6520.1	6565.0	6577.3	6597.6	6597.6
35°	5715.3	5723.4	5719.4	5727.6	5743.9	5764.2	5792.8	5821.4	5837.7	5837.7	5825.6
37.5°	4988.1	4939.1	4886.0	4845.1	4832.9	4824.6	4841.1	4853.2	4869.7	4877.8	4857.4
40°	4232.4	4122.1	4003.5	3897.3	3823.8	3791.2	3778.9	3786.9	3786.9	3815.5	3815.5
42.5°	3582.8	3411.1	3235.6	3076.2	2969.9	2888.3	2851.5	2851.5	2855.6	2876.1	2888.3
45°	3043.6	2827.0	2622.7	2447.1	2300.0	2193.7	2144.8	2132.5	2128.5	2136.5	2165.1
47.5°	2630.9	2406.3	2193.7	1977.3	1822.1	1715.8	1670.9	1654.4	1638.1	1654.4	1658.7
50°	2308.2	2075.3	1850.7	1634.1	1470.7	1376.7	1319.5	1294.9	1290.9	1290.9	1299.1
52.5°	2014.0	1797.5	1572.9	1352.3	1180.6	1090.8	1037.7	1025.4	1009.1	1025.4	1025.4
55°	1736.2	1519.8	1299.1	1090.8	947.7	853.9	804.8	788.5	780.2	792.5	792.5
57.5°	1434.0	1250.0	1045.9	857.9	715.0	649.6	612.7	592.4	588.2	596.4	588.2
60°	1176.6	1021.4	845.6	674.1	563.8	494.4	465.8	457.5	449.3	457.5	457.5
62.5°	931.4	800.7	657.6	527.0	433.0	384.1	351.3	351.3	347.2	347.2	351.3
65°	690.4	588.2	486.1	375.8	302.3	265.5	241.0	241.0	236.9	241.0	236.9
67.5°	502.4	433.0	351.3	273.8	216.6	196.1	179.8	167.5	175.7	167.5	163.4
70°	367.7	310.4	253.2	208.3	167.5	147.1	134.9	130.7	122.6	122.6	122.6
72.5°	245.2	208.3	171.5	134.9	110.3	89.8	85.8	77.7	69.4	73.5	81.7
75°	163.4	138.9	122.6	98.0	73.5	73.5	49.1	49.1	40.9	49.1	36.8
77.5°	114.3	94.0	73.5	61.2	49.1	44.9	32.6	32.6	28.6	28.6	28.6
80°	81.7	69.4	53.1	44.9	32.6	32.6	28.6	24.6	20.3	20.3	24.6
82.5°	49.1	36.8	36.8	32.6	20.3	16.3	12.3	16.3	8.2	8.2	8.2
85°	28.6	24.6	20.3	12.3	8.2	8.2	4.0	0.0	4.0	4.0	0.0
87.5°	16.3	8.2	8.2	4.0	0.0	4.0	4.0	0.0	0.0	0.0	8.2
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°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8415.7	8411.5	8419.7	8419.7	8444.3	8440.1	8452.3	8452.3	8444.3	8448.3	8464.6
5°	8444.3	8456.5	8480.9	8501.4	8538.1	8554.6	8574.9	8595.4	8599.5	8611.7	8624.0
7.5°	8444.3	8485.1	8513.7	8550.4	8599.5	8628.0	8672.9	8709.8	8726.1	8746.4	8771.0
10°	8427.8	8468.6	8521.8	8562.6	8624.0	8668.9	8713.8	8771.0	8795.5	8828.1	8860.9
12.5°	8395.2	8440.1	8497.2	8550.4	8619.8	8660.7	8717.8	8771.0	8807.8	8852.7	8889.5
15°	8346.2	8399.2	8452.3	8505.5	8578.9	8628.0	8681.2	8742.4	8779.2	8828.1	8860.9
17.5°	8268.5	8325.7	8374.8	8423.7	8493.2	8550.4	8599.5	8656.6	8693.5	8734.3	8779.2
20°	8174.5	8227.7	8280.8	8321.7	8391.1	8440.1	8493.2	8546.3	8574.9	8583.1	8652.6
22.5°	8056.2	8092.8	8133.7	8199.1	8239.9	8284.8	8333.9	8382.9	8411.5	8456.5	8480.9
25°	7859.9	7896.8	7941.6	7970.2	8019.3	8056.2	8105.1	8158.2	8174.5	8207.3	8231.7
27.5°	7586.3	7606.7	7627.2	7651.6	7680.2	7700.7	7729.3	7753.8	7770.1	7786.4	7802.8
30°	7153.2	7153.2	7153.2	7136.9	7149.1	7161.4	7165.5	7161.4	7161.4	7157.4	7157.4
32.5°	6581.3	6548.7	6511.9	6479.2	6467.0	6450.6	6442.4	6430.1	6409.8	6397.5	6401.5
35°	5809.1	5735.7	5690.8	5649.9	5617.3	5592.7	5580.5	5568.2	5564.1	5547.8	5531.4
37.5°	4845.1	4792.0	4759.4	4734.8	4706.2	4681.7	4685.7	4689.9	4702.0	4694.0	4698.0
40°	3823.8	3811.5	3823.8	3795.2	3786.9	3795.2	3815.5	3844.3	3860.6	3876.9	3905.5
42.5°	2908.7	2929.0	2957.8	2957.8	2969.9	2986.4	3010.8	3055.8	3080.2	3108.8	3141.6
45°	2189.7	2214.2	2251.0	2263.2	2271.4	2291.7	2320.5	2357.2	2373.5	2398.0	2426.6
47.5°	1687.2	1703.5	1723.9	1744.4	1764.8	1773.0	1801.6	1801.6	1822.1	1838.4	1846.5
50°	1315.5	1331.8	1348.1	1360.3	1368.6	1380.9	1388.9	1401.2	1405.2	1413.5	1417.5
52.5°	1029.4	1049.9	1049.9	1058.0	1070.3	1082.6	1078.5	1082.6	1086.6	1086.6	1098.9
55°	804.8	804.8	817.1	817.1	825.3	821.1	825.3	825.3	825.3	825.3	829.3
57.5°	600.5	604.7	616.9	608.7	604.7	612.7	604.7	612.7	608.7	616.9	604.7
60°	461.6	461.6	465.8	465.8	469.8	469.8	469.8	465.8	465.8	461.6	461.6
62.5°	347.2	351.3	355.5	351.3	351.3	351.3	347.2	347.2	343.2	339.0	339.0
65°	232.9	228.9	236.9	228.9	232.9	232.9	228.9	232.9	220.6	224.7	220.6
67.5°	167.5	163.4	159.4	163.4	159.4	155.2	155.2	159.4	163.4	151.2	151.2
70°	110.3	114.3	110.3	114.3	118.5	118.5	114.3	110.3	114.3	106.3	110.3
72.5°	69.4	69.4	69.4	69.4	69.4	73.5	73.5	73.5	65.4	65.4	61.2
75°	32.6	44.9	36.8	32.6	44.9	44.9	40.9	40.9	36.8	36.8	36.8
77.5°	32.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	20.3	24.6	20.3
80°	16.3	16.3	16.3	12.3	16.3	16.3	20.3	16.3	16.3	12.3	20.3
82.5°	8.2	8.2	8.2	0.0	4.0	8.2	8.2	4.0	8.2	8.2	4.0
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: P248937

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8460.6	8456.5	8460.6	8464.6	8460.6	8456.5	8460.6	8464.6	8448.3	8444.3	8452.3
5°	8640.3	8640.3	8648.4	8652.6	8648.4	8640.3	8640.3	8624.0	8611.7	8599.5	8595.4
7.5°	8795.5	8803.8	8811.8	8815.9	8811.8	8803.8	8795.5	8771.0	8746.4	8726.1	8709.8
10°	8889.5	8901.8	8918.1	8926.2	8918.1	8901.8	8889.5	8860.9	8828.1	8795.5	8771.0
12.5°	8930.4	8942.7	8963.0	8959.0	8963.0	8942.7	8930.4	8889.5	8852.7	8807.8	8771.0
15°	8901.8	8918.1	8938.5	8946.7	8938.5	8918.1	8901.8	8860.9	8828.1	8779.2	8742.4
17.5°	8811.8	8836.4	8848.7	8860.9	8848.7	8836.4	8811.8	8779.2	8734.3	8693.5	8656.6
20°	8689.3	8705.7	8722.0	8726.1	8722.0	8705.7	8689.3	8652.6	8583.1	8574.9	8546.3
22.5°	8513.7	8526.0	8562.6	8550.4	8562.6	8526.0	8513.7	8480.9	8456.5	8411.5	8382.9
25°	8260.3	8272.6	8276.8	8280.8	8276.8	8272.6	8260.3	8231.7	8207.3	8174.5	8158.2
27.5°	7823.3	7823.3	7831.3	7835.5	7831.3	7823.3	7823.3	7802.8	7786.4	7770.1	7753.8
30°	7161.4	7161.4	7161.4	7181.9	7161.4	7161.4	7161.4	7157.4	7157.4	7161.4	7161.4
32.5°	6397.5	6389.3	6381.2	6389.3	6381.2	6389.3	6397.5	6401.5	6397.5	6409.8	6430.1
35°	5531.4	5527.3	5539.6	5523.3	5539.6	5527.3	5531.4	5531.4	5547.8	5564.1	5568.2
37.5°	4702.0	4694.0	4710.3	4694.0	4710.3	4694.0	4702.0	4698.0	4694.0	4702.0	4689.9
40°	3913.7	3921.8	3921.8	3954.6	3921.8	3921.8	3913.7	3905.5	3876.9	3860.6	3844.3
42.5°	3157.9	3182.4	3174.2	3198.8	3174.2	3182.4	3157.9	3141.6	3108.8	3080.2	3055.8
45°	2442.9	2459.4	2459.4	2467.5	2459.4	2459.4	2442.9	2426.6	2398.0	2373.5	2357.2
47.5°	1875.1	1875.1	1875.1	1879.3	1875.1	1875.1	1875.1	1846.5	1838.4	1822.1	1801.6
50°	1425.8	1429.8	1434.0	1438.0	1434.0	1429.8	1425.8	1417.5	1413.5	1405.2	1401.2
52.5°	1094.8	1098.9	1090.8	1098.9	1090.8	1098.9	1094.8	1098.9	1086.6	1086.6	1082.6
55°	829.3	825.3	829.3	833.4	829.3	825.3	829.3	829.3	825.3	825.3	825.3
57.5°	608.7	600.5	600.5	600.5	600.5	600.5	608.7	604.7	616.9	608.7	612.7
60°	453.5	457.5	457.5	461.6	457.5	457.5	453.5	461.6	461.6	465.8	465.8
62.5°	335.0	347.2	339.0	347.2	339.0	347.2	335.0	339.0	339.0	343.2	347.2
65°	216.6	216.6	216.6	220.6	216.6	216.6	216.6	220.6	224.7	220.6	232.9
67.5°	147.1	151.2	159.4	155.2	159.4	151.2	147.1	151.2	151.2	163.4	159.4
70°	118.5	106.3	106.3	118.5	106.3	106.3	118.5	110.3	106.3	114.3	110.3
72.5°	69.4	61.2	69.4	69.4	69.4	61.2	69.4	61.2	65.4	65.4	73.5
75°	36.8	32.6	28.6	40.9	28.6	32.6	36.8	36.8	36.8	36.8	40.9
77.5°	24.6	20.3	28.6	28.6	28.6	20.3	24.6	20.3	24.6	20.3	24.6
80°	12.3	16.3	12.3	20.3	12.3	16.3	12.3	20.3	12.3	16.3	16.3
82.5°	4.0	8.2	8.2	8.2	8.2	8.2	4.0	4.0	8.2	8.2	4.0
85°	0.0	8.2	4.0	4.0	4.0	8.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	0.0	4.0	0.0	0.0	4.0	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: P248937

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8452.3	8440.1	8444.3	8419.7	8419.7	8411.5	8415.7	8395.2	8387.1	8378.8	8391.1
5°	8574.9	8554.6	8538.1	8501.4	8480.9	8456.5	8444.3	8411.5	8382.9	8358.3	8354.3
7.5°	8672.9	8628.0	8599.5	8550.4	8513.7	8485.1	8444.3	8399.2	8362.5	8329.7	8305.4
10°	8713.8	8668.9	8624.0	8562.6	8521.8	8468.6	8427.8	8370.6	8321.7	8276.8	8248.0
12.5°	8717.8	8660.7	8619.8	8550.4	8497.2	8440.1	8395.2	8329.7	8272.6	8227.7	8182.8
15°	8681.2	8628.0	8578.9	8505.5	8452.3	8399.2	8346.2	8276.8	8223.6	8170.5	8137.9
17.5°	8599.5	8550.4	8493.2	8423.7	8374.8	8325.7	8268.5	8211.4	8150.0	8092.8	8052.0
20°	8493.2	8440.1	8391.1	8321.7	8280.8	8227.7	8174.5	8113.3	8064.2	8007.1	7962.2
22.5°	8333.9	8284.8	8239.9	8199.1	8133.7	8092.8	8056.2	7986.7	7937.6	7884.5	7835.5
25°	8105.1	8056.2	8019.3	7970.2	7941.6	7896.8	7859.9	7798.7	7753.8	7704.7	7663.9
27.5°	7729.3	7700.7	7680.2	7651.6	7627.2	7606.7	7586.3	7537.2	7504.6	7459.7	7418.9
30°	7165.5	7161.4	7149.1	7136.9	7153.2	7153.2	7153.2	7145.1	7116.5	7083.7	7055.2
32.5°	6442.4	6450.6	6467.0	6479.2	6511.9	6548.7	6581.3	6597.6	6597.6	6577.3	6565.0
35°	5580.5	5592.7	5617.3	5649.9	5690.8	5735.7	5809.1	5825.6	5837.7	5837.7	5821.4
37.5°	4685.7	4681.7	4706.2	4734.8	4759.4	4792.0	4845.1	4857.4	4877.8	4869.7	4853.2
40°	3815.5	3795.2	3786.9	3795.2	3823.8	3811.5	3823.8	3815.5	3815.5	3786.9	3786.9
42.5°	3010.8	2986.4	2969.9	2957.8	2957.8	2929.0	2908.7	2888.3	2876.1	2855.6	2851.5
45°	2320.5	2291.7	2271.4	2263.2	2251.0	2214.2	2189.7	2165.1	2136.5	2128.5	2132.5
47.5°	1801.6	1773.0	1764.8	1744.4	1723.9	1703.5	1687.2	1658.7	1654.4	1638.1	1654.4
50°	1388.9	1380.9	1368.6	1360.3	1348.1	1331.8	1315.5	1299.1	1290.9	1290.9	1294.9
52.5°	1078.5	1082.6	1070.3	1058.0	1049.9	1049.9	1029.4	1025.4	1025.4	1009.1	1025.4
55°	825.3	821.1	825.3	817.1	817.1	804.8	804.8	792.5	792.5	780.2	788.5
57.5°	604.7	612.7	604.7	608.7	616.9	604.7	600.5	588.2	596.4	588.2	592.4
60°	469.8	469.8	469.8	465.8	465.8	461.6	461.6	457.5	457.5	449.3	457.5
62.5°	347.2	351.3	351.3	351.3	355.5	351.3	347.2	351.3	347.2	347.2	351.3
65°	228.9	232.9	232.9	228.9	236.9	228.9	232.9	236.9	241.0	236.9	241.0
67.5°	155.2	155.2	159.4	163.4	159.4	163.4	167.5	163.4	167.5	175.7	167.5
70°	114.3	118.5	118.5	114.3	110.3	114.3	110.3	122.6	122.6	122.6	130.7
72.5°	73.5	73.5	69.4	69.4	69.4	69.4	69.4	81.7	73.5	69.4	77.7
75°	40.9	44.9	44.9	32.6	36.8	44.9	32.6	36.8	49.1	40.9	49.1
77.5°	24.6	24.6	24.6	24.6	24.6	24.6	32.6	28.6	28.6	28.6	32.6
80°	20.3	16.3	16.3	12.3	16.3	16.3	16.3	24.6	20.3	20.3	24.6
82.5°	8.2	8.2	4.0	0.0	8.2	8.2	8.2	8.2	8.2	8.2	16.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	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: P248937

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8358.3	8358.3	8354.3	8346.2	8329.7	8329.7	8325.7	8313.4	8305.4	8301.2	8301.2
5°	8317.5	8301.2	8284.8	8239.9	8239.9	8231.7	8207.3	8190.8	8182.8	8162.3	8154.2
7.5°	8280.8	8231.7	8203.1	8174.5	8137.9	8121.4	8092.8	8080.5	8052.0	8031.6	8019.3
10°	8190.8	8158.2	8121.4	8076.5	8047.9	8015.3	7982.5	7958.1	7921.3	7900.8	7884.5
12.5°	8129.6	8080.5	8047.9	7998.8	7949.9	7921.3	7876.4	7847.8	7811.0	7770.1	7745.6
15°	8072.5	8019.3	7974.4	7921.3	7868.2	7835.5	7782.4	7749.8	7696.7	7655.8	7627.2
17.5°	7986.7	7941.6	7892.7	7827.3	7778.4	7737.5	7680.2	7639.5	7590.4	7537.2	7508.7
20°	7896.8	7843.6	7794.7	7729.3	7680.2	7631.2	7574.1	7529.2	7471.8	7422.9	7390.3
22.5°	7778.4	7717.0	7676.1	7610.7	7553.6	7500.6	7447.4	7394.3	7341.2	7300.3	7263.5
25°	7606.7	7541.3	7496.4	7443.2	7390.3	7349.4	7284.0	7251.4	7198.2	7161.4	7124.6
27.5°	7361.5	7312.6	7271.7	7218.6	7173.7	7141.1	7092.0	7059.4	7014.3	6981.7	6953.1
30°	7002.2	6961.3	6924.5	6871.4	6838.7	6810.2	6765.1	6736.5	6703.9	6667.1	6659.0
32.5°	6520.1	6487.3	6450.6	6413.8	6389.3	6373.0	6336.1	6319.8	6287.2	6266.7	6246.3
35°	5792.8	5764.2	5743.9	5727.6	5719.4	5723.4	5715.3	5731.6	5739.7	5735.7	5739.7
37.5°	4841.1	4824.6	4832.9	4845.1	4886.0	4939.1	4988.1	5061.5	5110.6	5159.7	5204.6
40°	3778.9	3791.2	3823.8	3897.3	4003.5	4122.1	4232.4	4371.3	4510.2	4608.2	4698.0
42.5°	2851.5	2888.3	2969.9	3076.2	3235.6	3411.1	3582.8	3786.9	3954.6	4117.9	4232.4
45°	2144.8	2193.7	2300.0	2447.1	2622.7	2827.0	3043.6	3272.2	3472.5	3640.0	3766.6
47.5°	1670.9	1715.8	1822.1	1977.3	2193.7	2406.3	2630.9	2867.8	3076.2	3239.6	3349.9
50°	1319.5	1376.7	1470.7	1634.1	1850.7	2075.3	2308.2	2540.9	2737.2	2876.1	2974.1
52.5°	1037.7	1090.8	1180.6	1352.3	1572.9	1797.5	2014.0	2242.8	2414.3	2549.2	2614.6
55°	804.8	853.9	947.7	1090.8	1299.1	1519.8	1736.2	1932.4	2091.6	2189.7	2251.0
57.5°	612.7	649.6	715.0	857.9	1045.9	1250.0	1434.0	1630.1	1752.6	1822.1	1862.8
60°	465.8	494.4	563.8	674.1	845.6	1021.4	1176.6	1323.7	1421.7	1478.9	1519.8
62.5°	351.3	384.1	433.0	527.0	657.6	800.7	931.4	1041.7	1123.4	1160.2	1188.8
65°	241.0	265.5	302.3	375.8	486.1	588.2	690.4	772.2	825.3	866.2	882.5
67.5°	179.8	196.1	216.6	273.8	351.3	433.0	502.4	559.6	616.9	633.3	661.8
70°	134.9	147.1	167.5	208.3	253.2	310.4	367.7	400.4	441.2	469.8	478.1
72.5°	85.8	89.8	110.3	134.9	171.5	208.3	245.2	273.8	298.3	314.6	322.7
75°	49.1	73.5	73.5	98.0	122.6	138.9	163.4	183.8	196.1	208.3	208.3
77.5°	32.6	44.9	49.1	61.2	73.5	94.0	114.3	126.6	138.9	142.9	142.9
80°	28.6	32.6	32.6	44.9	53.1	69.4	81.7	85.8	94.0	98.0	106.3
82.5°	12.3	16.3	20.3	32.6	36.8	36.8	49.1	53.1	61.2	65.4	65.4
85°	4.0	8.2	8.2	12.3	20.3	24.6	28.6	32.6	36.8	36.8	40.9
87.5°	4.0	4.0	0.0	4.0	8.2	8.2	16.3	16.3	16.3	24.6	24.6
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: P248937

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6	8366.6
2.5°	8293.1	8297.1	8280.8	8276.8	8268.5	8272.6	8280.8
5°	8141.9	8146.0	8129.6	8113.3	8113.3	8109.1	8113.3
7.5°	7998.8	8003.0	7978.5	7970.2	7953.9	7958.1	7958.1
10°	7855.9	7855.9	7819.2	7815.0	7802.8	7798.7	7798.7
12.5°	7717.0	7704.7	7676.1	7659.8	7668.1	7643.5	7643.5
15°	7594.4	7574.1	7537.2	7525.0	7504.6	7496.4	7496.4
17.5°	7467.8	7451.5	7418.9	7394.3	7369.8	7365.7	7369.8
20°	7345.2	7328.9	7288.0	7271.7	7251.4	7251.4	7243.1
22.5°	7222.6	7206.3	7169.7	7157.4	7128.8	7128.8	7132.8
25°	7096.0	7083.7	7042.9	7034.8	7030.8	7014.3	7022.5
27.5°	6924.5	6916.3	6883.6	6871.4	6855.1	6851.0	6859.1
30°	6609.9	6597.6	6573.2	6561.0	6532.4	6536.4	6544.5
32.5°	6217.8	6201.4	6168.7	6156.4	6132.0	6123.8	6127.8
35°	5727.6	5715.3	5686.7	5686.7	5662.2	5653.9	5662.2
37.5°	5229.2	5241.3	5229.2	5241.3	5229.2	5225.0	5229.2
40°	4759.4	4804.3	4812.3	4857.4	4841.1	4865.5	4861.4
42.5°	4309.9	4383.4	4412.1	4448.8	4440.7	4457.0	4469.3
45°	3856.4	3917.8	3946.4	3970.9	3974.9	3983.2	3987.2
47.5°	3427.4	3476.5	3480.6	3509.2	3505.1	3505.1	3517.4
50°	3027.2	3059.9	3067.9	3088.4	3072.1	3063.9	3067.9
52.5°	2655.5	2688.1	2679.8	2688.1	2667.7	2659.5	2663.5
55°	2275.4	2291.7	2291.7	2291.7	2267.4	2267.4	2267.4
57.5°	1887.3	1891.5	1883.3	1887.3	1883.3	1858.8	1854.7
60°	1532.0	1532.0	1527.8	1532.0	1519.8	1507.5	1507.5
62.5°	1196.9	1205.1	1221.5	1205.1	1196.9	1205.1	1192.9
65°	894.7	911.0	906.8	915.1	911.0	911.0	902.8
67.5°	674.1	678.2	682.2	686.4	686.4	686.4	686.4
70°	494.4	506.6	502.4	502.4	502.4	502.4	527.0
72.5°	330.9	347.2	343.2	351.3	351.3	359.5	351.3
75°	224.7	241.0	232.9	245.2	241.0	232.9	253.2
77.5°	151.2	159.4	163.4	167.5	163.4	159.4	163.4
80°	106.3	114.3	110.3	114.3	114.3	114.3	118.5
82.5°	65.4	77.7	73.5	77.7	73.5	77.7	77.7
85°	44.9	49.1	40.9	49.1	44.9	44.9	53.1
87.5°	28.6	24.6	24.6	28.6	24.6	28.6	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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