

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: P248557

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248557
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: LD8B150D010 ER8B150830 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15629.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

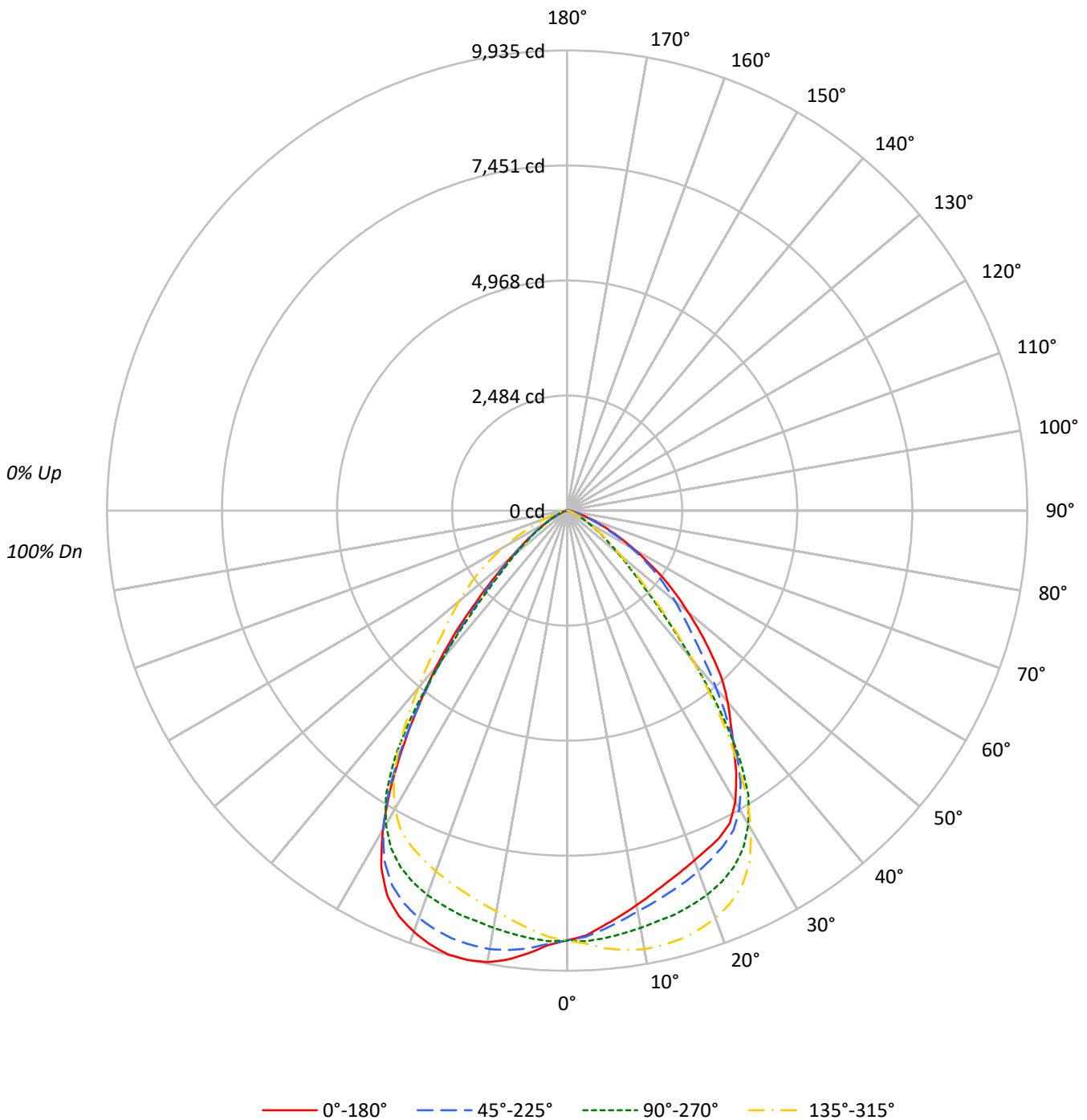
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	286112	286112	286112	286112
5°	278513	286784	297023	286784
10°	270808	286411	309958	286411
15°	265398	288109	316745	288109
20°	263592	289759	317557	289759
25°	264976	289174	312454	289174
30°	258426	278590	283597	278590
35°	236379	243027	230582	243027
40°	217021	169055	176538	169055
45°	192831	103131	119332	103131
50°	163218	68894	76507	68894
55°	135183	47009	49686	47009
60°	103104	31293	31570	31293
65°	73052	19496	17855	19496
70°	52689	13064	11856	13064
75°	33455	6493	5397	6493
80°	23352	4830	4013	4830
85°	20839	0	1592	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.1	5.7
10°-20°	2557.4	16.4
20°-30°	3872.4	24.8
30°-40°	3881.1	24.8
40°-50°	2437.1	15.6
50°-60°	1298.8	8.3
60°-70°	534.1	3.4
70°-80°	141.1	0.9
80°-90°	23.9	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°	7312.9	46.8
0°-40°	11194.1	71.6
0°-60°	14930.0	95.5
0°-90°	15629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15629.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9278	9278	9278	9278	9278	
5°	8998	9265	9596	9265	8998	849
15°	8313	9025	9922	9025	8313	2351
25°	7788	8499	9183	8499	7788	3572
35°	6279	6456	6125	6456	6279	3934
45°	4422	2365	2736	2365	4422	3401
55°	2514	874	924	874	2514	2242
65°	1001	267	245	267	1001	1039
75°	281	54	45	54	281	318
85°	59	0	4	0	59	65
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°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9183.3	9174.2	9169.7	9178.9	9183.3	9201.4	9197.0	9205.9	9205.9	9210.6	9219.5
5°	8997.6	8992.9	8997.6	8997.6	9015.7	9033.8	9029.3	9042.9	9051.9	9074.6	9083.6
7.5°	8825.5	8825.5	8820.8	8838.9	8848.0	8875.3	8870.6	8893.4	8907.0	8929.5	8961.2
10°	8648.7	8648.7	8653.2	8666.8	8671.5	8712.1	8712.1	8743.8	8761.9	8784.6	8825.5
12.5°	8476.6	8476.6	8503.8	8494.7	8512.8	8544.5	8558.1	8589.8	8617.0	8662.3	8703.2
15°	8313.4	8313.4	8322.6	8345.1	8358.7	8399.6	8422.1	8458.5	8490.2	8535.5	8594.4
17.5°	8173.0	8168.5	8173.0	8200.2	8227.4	8263.6	8281.7	8327.0	8358.7	8417.7	8472.1
20°	8032.6	8041.7	8041.7	8064.3	8082.4	8127.7	8145.8	8195.7	8231.9	8286.2	8349.8
22.5°	7910.2	7905.8	7905.8	7937.5	7951.1	7991.7	8009.8	8055.1	8096.0	8141.3	8200.2
25°	7787.9	7778.8	7797.1	7801.5	7810.5	7855.8	7869.4	7901.1	7941.9	7982.8	8041.7
27.5°	7606.7	7597.7	7602.2	7620.3	7633.9	7670.1	7679.2	7710.9	7742.6	7778.8	7828.8
30°	7257.8	7248.8	7244.3	7276.0	7289.6	7316.7	7330.3	7384.7	7393.7	7434.5	7470.7
32.5°	6795.7	6791.2	6800.3	6827.4	6841.0	6877.3	6895.4	6927.1	6949.7	6972.4	7008.6
35°	6279.3	6270.2	6279.3	6306.5	6306.5	6338.2	6351.8	6365.3	6360.8	6365.3	6356.3
37.5°	5799.1	5794.5	5799.1	5812.5	5799.1	5812.5	5799.1	5771.9	5722.1	5667.7	5613.2
40°	5391.3	5395.8	5368.7	5386.8	5336.8	5327.9	5278.1	5210.0	5110.5	5001.7	4847.7
42.5°	4956.4	4942.8	4924.7	4933.7	4893.0	4861.1	4779.6	4693.7	4566.7	4385.6	4199.7
45°	4421.8	4417.3	4408.2	4403.7	4376.5	4344.8	4276.7	4177.1	4036.7	3851.0	3628.9
47.5°	3900.8	3887.2	3887.2	3891.6	3859.9	3855.5	3801.0	3715.0	3592.7	3411.4	3180.4
50°	3402.3	3397.8	3407.0	3425.1	3402.3	3393.4	3357.2	3298.3	3189.5	3035.5	2817.9
52.5°	2953.8	2949.3	2958.5	2981.1	2971.9	2981.1	2944.9	2899.6	2827.0	2677.5	2487.3
55°	2514.5	2514.5	2514.5	2541.5	2541.5	2541.5	2523.4	2496.4	2428.3	2319.6	2143.0
57.5°	2056.9	2061.3	2088.6	2093.0	2088.6	2097.7	2093.0	2065.8	2020.7	1943.7	1807.7
60°	1671.8	1671.8	1685.4	1699.0	1694.3	1699.0	1699.0	1685.4	1640.1	1576.7	1468.0
62.5°	1322.9	1336.5	1327.4	1336.5	1354.6	1336.5	1327.4	1318.4	1286.7	1245.9	1155.2
65°	1001.2	1010.3	1010.3	1014.8	1005.7	1010.3	992.3	978.6	960.6	915.2	856.3
67.5°	761.2	761.2	761.2	761.2	756.5	752.1	747.6	734.0	702.3	684.2	620.6
70°	584.4	557.2	557.2	557.2	557.2	561.9	548.2	530.2	521.0	489.3	444.0
72.5°	389.6	398.7	389.6	389.6	380.6	385.1	367.0	357.9	348.9	330.8	303.6
75°	280.8	258.3	267.2	271.9	258.3	267.2	249.1	231.0	231.0	217.4	203.8
77.5°	181.3	176.8	181.3	185.7	181.3	176.8	167.6	158.5	158.5	154.0	140.4
80°	131.5	126.8	126.8	126.8	122.3	126.8	117.9	117.9	108.7	104.2	95.1
82.5°	86.2	86.2	81.5	86.2	81.5	86.2	72.5	72.5	72.5	67.9	58.9
85°	58.9	49.8	49.8	54.5	45.3	54.5	49.8	45.3	40.8	40.8	36.2
87.5°	27.2	31.7	27.2	31.7	27.2	27.2	31.7	27.2	27.2	18.1	18.1
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°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9233.1	9237.6	9237.6	9255.9	9264.8	9269.3	9269.3	9305.7	9292.1	9301.2	9310.1
5°	9101.8	9128.9	9138.0	9138.0	9187.8	9205.9	9224.0	9264.8	9269.3	9296.5	9328.2
7.5°	8974.9	9006.6	9024.8	9065.5	9097.2	9128.9	9183.3	9210.6	9237.6	9274.0	9314.6
10°	8852.5	8888.9	8925.1	8956.8	9006.6	9047.4	9083.6	9147.0	9178.9	9228.7	9282.9
12.5°	8734.9	8784.6	8816.3	8870.6	8925.1	8961.2	9015.7	9074.6	9124.4	9174.2	9237.6
15°	8630.6	8689.5	8725.7	8784.6	8843.6	8893.4	8952.3	9024.8	9061.0	9119.9	9178.9
17.5°	8517.2	8580.8	8626.1	8680.4	8752.9	8807.2	8857.2	8929.5	8974.9	9038.3	9106.3
20°	8399.6	8463.0	8517.2	8571.7	8644.2	8698.5	8757.4	8830.0	8879.8	8943.2	8997.6
22.5°	8259.1	8318.1	8376.8	8440.2	8512.8	8558.1	8626.1	8689.5	8743.8	8802.7	8857.2
25°	8077.9	8150.4	8195.7	8254.5	8313.4	8363.2	8435.7	8499.1	8544.5	8598.9	8648.7
27.5°	7864.9	7919.4	7955.6	8005.4	8064.3	8109.6	8163.9	8227.4	8272.8	8322.6	8358.7
30°	7502.4	7552.4	7584.1	7620.3	7679.2	7720.0	7765.4	7824.1	7855.8	7892.2	7923.9
32.5°	7026.7	7067.5	7085.6	7112.9	7153.7	7194.4	7230.7	7280.5	7294.1	7316.7	7316.7
35°	6338.2	6347.2	6342.7	6351.8	6369.9	6392.5	6424.2	6455.9	6474.0	6474.0	6460.6
37.5°	5531.7	5477.4	5418.5	5373.2	5359.6	5350.5	5368.7	5382.2	5400.4	5409.4	5386.8
40°	4693.7	4571.3	4439.9	4322.0	4240.5	4204.4	4190.7	4199.7	4199.7	4231.4	4231.4
42.5°	3973.3	3782.9	3588.2	3411.4	3293.6	3203.1	3162.3	3162.3	3166.8	3189.5	3203.1
45°	3375.3	3135.1	2908.5	2713.8	2550.7	2432.8	2378.5	2364.9	2360.4	2369.4	2401.1
47.5°	2917.6	2668.5	2432.8	2192.8	2020.7	1902.8	1853.0	1834.8	1816.7	1834.8	1839.4
50°	2559.8	2301.5	2052.4	1812.2	1630.9	1526.7	1463.3	1436.1	1431.6	1431.6	1440.7
52.5°	2233.5	1993.5	1744.3	1499.7	1309.3	1209.7	1150.8	1137.1	1119.1	1137.1	1137.1
55°	1925.4	1685.4	1440.7	1209.7	1051.0	946.9	892.5	874.4	865.3	878.9	878.9
57.5°	1590.3	1386.3	1159.9	951.4	792.9	720.4	679.5	657.0	652.3	661.4	652.3
60°	1304.8	1132.7	937.8	747.6	625.3	548.2	516.5	507.4	498.3	507.4	507.4
62.5°	1032.9	888.0	729.3	584.4	480.2	425.9	389.6	389.6	385.1	385.1	389.6
65°	765.7	652.3	539.1	416.8	335.3	294.5	267.2	267.2	262.7	262.7	262.7
67.5°	557.2	480.2	389.6	303.6	240.2	217.4	199.3	185.7	194.9	185.7	181.3
70°	407.8	344.2	280.8	231.0	185.7	163.2	149.6	144.9	135.9	135.9	135.9
72.5°	271.9	231.0	190.2	149.6	122.3	99.6	95.1	86.2	77.0	81.5	90.6
75°	181.3	154.0	135.9	108.7	81.5	81.5	54.5	54.5	45.3	54.5	40.8
77.5°	126.8	104.2	81.5	67.9	54.5	49.8	36.2	36.2	31.7	31.7	31.7
80°	90.6	77.0	58.9	49.8	36.2	36.2	31.7	27.2	22.6	22.6	27.2
82.5°	54.5	40.8	40.8	36.2	22.6	18.1	13.6	18.1	9.1	9.1	9.1
85°	31.7	27.2	22.6	13.6	9.1	9.1	4.5	0.0	4.5	4.5	0.0
87.5°	18.1	9.1	9.1	4.5	0.0	4.5	4.5	0.0	0.0	0.0	9.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9332.9	9328.2	9337.4	9337.4	9364.6	9359.9	9373.5	9373.5	9364.6	9369.1	9387.2
5°	9364.6	9378.2	9405.2	9428.0	9468.7	9486.9	9509.5	9532.2	9536.7	9550.3	9563.9
7.5°	9364.6	9409.9	9441.6	9482.3	9536.7	9568.4	9618.2	9659.0	9677.1	9699.7	9726.9
10°	9346.3	9391.6	9450.6	9495.9	9563.9	9613.7	9663.5	9726.9	9754.1	9790.3	9826.7
12.5°	9310.1	9359.9	9423.3	9482.3	9559.3	9604.6	9668.0	9726.9	9767.8	9817.6	9858.4
15°	9255.9	9314.6	9373.5	9432.5	9514.0	9568.4	9627.3	9695.2	9736.1	9790.3	9826.7
17.5°	9169.7	9233.1	9287.6	9341.8	9418.9	9482.3	9536.7	9600.1	9641.0	9686.3	9736.1
20°	9065.5	9124.4	9183.3	9228.7	9305.7	9359.9	9418.9	9477.8	9509.5	9518.6	9595.6
22.5°	8934.2	8974.9	9020.2	9092.7	9138.0	9187.8	9242.3	9296.5	9328.2	9378.2	9405.2
25°	8716.6	8757.4	8807.2	8838.9	8893.4	8934.2	8988.5	9047.4	9065.5	9101.8	9128.9
27.5°	8413.2	8435.7	8458.5	8485.5	8517.2	8540.0	8571.7	8598.9	8617.0	8635.1	8653.2
30°	7932.8	7932.8	7932.8	7914.7	7928.3	7941.9	7946.4	7941.9	7941.9	7937.5	7937.5
32.5°	7298.6	7262.4	7221.6	7185.4	7171.8	7153.7	7144.6	7131.0	7108.4	7094.8	7099.3
35°	6442.3	6360.8	6311.0	6265.7	6229.5	6202.3	6188.7	6175.1	6170.6	6152.5	6134.2
37.5°	5373.2	5314.3	5278.1	5250.9	5219.2	5191.9	5196.4	5201.1	5214.5	5205.6	5210.0
40°	4240.5	4226.9	4240.5	4208.8	4199.7	4208.8	4231.4	4263.3	4281.4	4299.5	4331.2
42.5°	3225.7	3248.3	3280.2	3280.2	3293.6	3311.9	3338.9	3388.9	3415.9	3447.6	3484.0
45°	2428.3	2455.6	2496.4	2509.8	2519.0	2541.5	2573.4	2614.1	2632.1	2659.4	2691.1
47.5°	1871.1	1889.2	1911.8	1934.5	1957.1	1966.2	1997.9	1997.9	2020.7	2038.8	2047.7
50°	1458.8	1476.9	1495.0	1508.6	1517.8	1531.4	1540.3	1553.9	1558.4	1567.5	1572.0
52.5°	1141.6	1164.4	1164.4	1173.3	1186.9	1200.6	1196.1	1200.6	1205.0	1205.0	1218.6
55°	892.5	892.5	906.1	906.1	915.2	910.6	915.2	915.2	915.2	915.2	919.7
57.5°	665.9	670.6	684.2	675.1	670.6	679.5	670.6	679.5	675.1	684.2	670.6
60°	511.9	511.9	516.5	516.5	521.0	521.0	521.0	516.5	516.5	511.9	511.9
62.5°	385.1	389.6	394.2	389.6	389.6	389.6	385.1	385.1	380.6	375.9	375.9
65°	258.3	253.8	262.7	253.8	258.3	258.3	253.8	258.3	244.7	249.1	244.7
67.5°	185.7	181.3	176.8	181.3	176.8	172.1	172.1	176.8	181.3	167.6	167.6
70°	122.3	126.8	122.3	126.8	131.5	131.5	126.8	122.3	126.8	117.9	122.3
72.5°	77.0	77.0	77.0	77.0	77.0	81.5	81.5	81.5	72.5	72.5	67.9
75°	36.2	49.8	40.8	36.2	49.8	49.8	45.3	45.3	40.8	40.8	40.8
77.5°	36.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	22.6	27.2	22.6
80°	18.1	18.1	18.1	13.6	18.1	18.1	22.6	18.1	18.1	13.6	22.6
82.5°	9.1	9.1	9.1	0.0	4.5	9.1	9.1	4.5	9.1	9.1	4.5
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: P248557

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9382.7	9378.2	9382.7	9387.2	9382.7	9378.2	9382.7	9387.2	9369.1	9364.6	9373.5
5°	9582.0	9582.0	9591.0	9595.6	9591.0	9582.0	9582.0	9563.9	9550.3	9536.7	9532.2
7.5°	9754.1	9763.3	9772.2	9776.7	9772.2	9763.3	9754.1	9726.9	9699.7	9677.1	9659.0
10°	9858.4	9872.0	9890.1	9899.0	9890.1	9872.0	9858.4	9826.7	9790.3	9754.1	9726.9
12.5°	9903.7	9917.3	9939.9	9935.4	9939.9	9917.3	9903.7	9858.4	9817.6	9767.8	9726.9
15°	9872.0	9890.1	9912.7	9921.8	9912.7	9890.1	9872.0	9826.7	9790.3	9736.1	9695.2
17.5°	9772.2	9799.5	9813.1	9826.7	9813.1	9799.5	9772.2	9736.1	9686.3	9641.0	9600.1
20°	9636.3	9654.6	9672.7	9677.1	9672.7	9654.6	9636.3	9595.6	9518.6	9509.5	9477.8
22.5°	9441.6	9455.2	9495.9	9482.3	9495.9	9455.2	9441.6	9405.2	9378.2	9328.2	9296.5
25°	9160.6	9174.2	9178.9	9183.3	9178.9	9174.2	9160.6	9128.9	9101.8	9065.5	9047.4
27.5°	8675.9	8675.9	8684.9	8689.5	8684.9	8675.9	8675.9	8653.2	8635.1	8617.0	8598.9
30°	7941.9	7941.9	7941.9	7964.7	7941.9	7941.9	7941.9	7937.5	7937.5	7941.9	7941.9
32.5°	7094.8	7085.6	7076.7	7085.6	7076.7	7085.6	7094.8	7099.3	7094.8	7108.4	7131.0
35°	6134.2	6129.7	6143.4	6125.3	6143.4	6129.7	6134.2	6134.2	6152.5	6170.6	6175.1
37.5°	5214.5	5205.6	5223.6	5205.6	5223.6	5205.6	5214.5	5210.0	5205.6	5214.5	5201.1
40°	4340.3	4349.2	4349.2	4385.6	4349.2	4349.2	4340.3	4331.2	4299.5	4281.4	4263.3
42.5°	3502.1	3529.3	3520.2	3547.4	3520.2	3529.3	3502.1	3484.0	3447.6	3415.9	3388.9
45°	2709.2	2727.4	2727.4	2736.4	2727.4	2727.4	2709.2	2691.1	2659.4	2632.1	2614.1
47.5°	2079.4	2079.4	2079.4	2084.1	2079.4	2079.4	2079.4	2047.7	2038.8	2020.7	1997.9
50°	1581.2	1585.6	1590.3	1594.8	1590.3	1585.6	1581.2	1572.0	1567.5	1558.4	1553.9
52.5°	1214.2	1218.6	1209.7	1218.6	1209.7	1218.6	1214.2	1218.6	1205.0	1205.0	1200.6
55°	919.7	915.2	919.7	924.2	919.7	915.2	919.7	919.7	915.2	915.2	915.2
57.5°	675.1	665.9	665.9	665.9	665.9	665.9	675.1	670.6	684.2	675.1	679.5
60°	502.9	507.4	507.4	511.9	507.4	507.4	502.9	511.9	511.9	516.5	516.5
62.5°	371.5	385.1	375.9	385.1	375.9	385.1	371.5	375.9	375.9	380.6	385.1
65°	240.2	240.2	240.2	244.7	240.2	240.2	240.2	244.7	249.1	244.7	258.3
67.5°	163.2	167.6	176.8	172.1	176.8	167.6	163.2	167.6	167.6	181.3	176.8
70°	131.5	117.9	117.9	131.5	117.9	117.9	131.5	122.3	117.9	126.8	122.3
72.5°	77.0	67.9	77.0	77.0	77.0	67.9	77.0	67.9	72.5	72.5	81.5
75°	40.8	36.2	31.7	45.3	31.7	36.2	40.8	40.8	40.8	40.8	45.3
77.5°	27.2	22.6	31.7	31.7	31.7	22.6	27.2	22.6	27.2	22.6	27.2
80°	13.6	18.1	13.6	22.6	13.6	18.1	13.6	22.6	13.6	18.1	18.1
82.5°	4.5	9.1	9.1	9.1	9.1	9.1	4.5	4.5	9.1	9.1	4.5
85°	0.0	9.1	4.5	4.5	4.5	9.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	0.0	0.0	4.5	0.0	0.0	4.5	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: P248557

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9373.5	9359.9	9364.6	9337.4	9337.4	9328.2	9332.9	9310.1	9301.2	9292.1	9305.7
5°	9509.5	9486.9	9468.7	9428.0	9405.2	9378.2	9364.6	9328.2	9296.5	9269.3	9264.8
7.5°	9618.2	9568.4	9536.7	9482.3	9441.6	9409.9	9364.6	9314.6	9274.0	9237.6	9210.6
10°	9663.5	9613.7	9563.9	9495.9	9450.6	9391.6	9346.3	9282.9	9228.7	9178.9	9147.0
12.5°	9668.0	9604.6	9559.3	9482.3	9423.3	9359.9	9310.1	9237.6	9174.2	9124.4	9074.6
15°	9627.3	9568.4	9514.0	9432.5	9373.5	9314.6	9255.9	9178.9	9119.9	9061.0	9024.8
17.5°	9536.7	9482.3	9418.9	9341.8	9287.6	9233.1	9169.7	9106.3	9038.3	8974.9	8929.5
20°	9418.9	9359.9	9305.7	9228.7	9183.3	9124.4	9065.5	8997.6	8943.2	8879.8	8830.0
22.5°	9242.3	9187.8	9138.0	9092.7	9020.2	8974.9	8934.2	8857.2	8802.7	8743.8	8689.5
25°	8988.5	8934.2	8893.4	8838.9	8807.2	8757.4	8716.6	8648.7	8598.9	8544.5	8499.1
27.5°	8571.7	8540.0	8517.2	8485.5	8458.5	8435.7	8413.2	8358.7	8322.6	8272.8	8227.4
30°	7946.4	7941.9	7928.3	7914.7	7932.8	7932.8	7932.8	7923.9	7892.2	7855.8	7824.1
32.5°	7144.6	7153.7	7171.8	7185.4	7221.6	7262.4	7298.6	7316.7	7316.7	7294.1	7280.5
35°	6188.7	6202.3	6229.5	6265.7	6311.0	6360.8	6442.3	6460.6	6474.0	6474.0	6455.9
37.5°	5196.4	5191.9	5219.2	5250.9	5278.1	5314.3	5373.2	5386.8	5409.4	5400.4	5382.2
40°	4231.4	4208.8	4199.7	4208.8	4240.5	4226.9	4240.5	4231.4	4231.4	4199.7	4199.7
42.5°	3338.9	3311.9	3293.6	3280.2	3280.2	3248.3	3225.7	3203.1	3189.5	3166.8	3162.3
45°	2573.4	2541.5	2519.0	2509.8	2496.4	2455.6	2428.3	2401.1	2369.4	2360.4	2364.9
47.5°	1997.9	1966.2	1957.1	1934.5	1911.8	1889.2	1871.1	1839.4	1834.8	1816.7	1834.8
50°	1540.3	1531.4	1517.8	1508.6	1495.0	1476.9	1458.8	1440.7	1431.6	1431.6	1436.1
52.5°	1196.1	1200.6	1186.9	1173.3	1164.4	1164.4	1141.6	1137.1	1137.1	1119.1	1137.1
55°	915.2	910.6	915.2	906.1	906.1	892.5	892.5	878.9	878.9	865.3	874.4
57.5°	670.6	679.5	670.6	675.1	684.2	670.6	665.9	652.3	661.4	652.3	657.0
60°	521.0	521.0	521.0	516.5	516.5	511.9	511.9	507.4	507.4	498.3	507.4
62.5°	385.1	389.6	389.6	389.6	394.2	389.6	385.1	389.6	385.1	385.1	389.6
65°	253.8	258.3	258.3	253.8	262.7	253.8	258.3	262.7	267.2	262.7	267.2
67.5°	172.1	172.1	176.8	181.3	176.8	181.3	185.7	181.3	185.7	194.9	185.7
70°	126.8	131.5	131.5	126.8	122.3	126.8	122.3	135.9	135.9	135.9	144.9
72.5°	81.5	81.5	77.0	77.0	77.0	77.0	77.0	90.6	81.5	77.0	86.2
75°	45.3	49.8	49.8	36.2	40.8	49.8	36.2	40.8	54.5	45.3	54.5
77.5°	27.2	27.2	27.2	27.2	27.2	27.2	36.2	31.7	31.7	31.7	36.2
80°	22.6	18.1	18.1	13.6	18.1	18.1	18.1	27.2	22.6	22.6	27.2
82.5°	9.1	9.1	4.5	0.0	9.1	9.1	9.1	9.1	9.1	9.1	18.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	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: P248557

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9269.3	9269.3	9264.8	9255.9	9237.6	9237.6	9233.1	9219.5	9210.6	9205.9	9205.9
5°	9224.0	9205.9	9187.8	9138.0	9138.0	9128.9	9101.8	9083.6	9074.6	9051.9	9042.9
7.5°	9183.3	9128.9	9097.2	9065.5	9024.8	9006.6	8974.9	8961.2	8929.5	8907.0	8893.4
10°	9083.6	9047.4	9006.6	8956.8	8925.1	8888.9	8852.5	8825.5	8784.6	8761.9	8743.8
12.5°	9015.7	8961.2	8925.1	8870.6	8816.3	8784.6	8734.9	8703.2	8662.3	8617.0	8589.8
15°	8952.3	8893.4	8843.6	8784.6	8725.7	8689.5	8630.6	8594.4	8535.5	8490.2	8458.5
17.5°	8857.2	8807.2	8752.9	8680.4	8626.1	8580.8	8517.2	8472.1	8417.7	8358.7	8327.0
20°	8757.4	8698.5	8644.2	8571.7	8517.2	8463.0	8399.6	8349.8	8286.2	8231.9	8195.7
22.5°	8626.1	8558.1	8512.8	8440.2	8376.8	8318.1	8259.1	8200.2	8141.3	8096.0	8055.1
25°	8435.7	8363.2	8313.4	8254.5	8195.7	8150.4	8077.9	8041.7	7982.8	7941.9	7901.1
27.5°	8163.9	8109.6	8064.3	8005.4	7955.6	7919.4	7864.9	7828.8	7778.8	7742.6	7710.9
30°	7765.4	7720.0	7679.2	7620.3	7584.1	7552.4	7502.4	7470.7	7434.5	7393.7	7384.7
32.5°	7230.7	7194.4	7153.7	7112.9	7085.6	7067.5	7026.7	7008.6	6972.4	6949.7	6927.1
35°	6424.2	6392.5	6369.9	6351.8	6342.7	6347.2	6338.2	6356.3	6365.3	6360.8	6365.3
37.5°	5368.7	5350.5	5359.6	5373.2	5418.5	5477.4	5531.7	5613.2	5667.7	5722.1	5771.9
40°	4190.7	4204.4	4240.5	4322.0	4439.9	4571.3	4693.7	4847.7	5001.7	5110.5	5210.0
42.5°	3162.3	3203.1	3293.6	3411.4	3588.2	3782.9	3973.3	4199.7	4385.6	4566.7	4693.7
45°	2378.5	2432.8	2550.7	2713.8	2908.5	3135.1	3375.3	3628.9	3851.0	4036.7	4177.1
47.5°	1853.0	1902.8	2020.7	2192.8	2432.8	2668.5	2917.6	3180.4	3411.4	3592.7	3715.0
50°	1463.3	1526.7	1630.9	1812.2	2052.4	2301.5	2559.8	2817.9	3035.5	3189.5	3298.3
52.5°	1150.8	1209.7	1309.3	1499.7	1744.3	1993.5	2233.5	2487.3	2677.5	2827.0	2899.6
55°	892.5	946.9	1051.0	1209.7	1440.7	1685.4	1925.4	2143.0	2319.6	2428.3	2496.4
57.5°	679.5	720.4	792.9	951.4	1159.9	1386.3	1590.3	1807.7	1943.7	2020.7	2065.8
60°	516.5	548.2	625.3	747.6	937.8	1132.7	1304.8	1468.0	1576.7	1640.1	1685.4
62.5°	389.6	425.9	480.2	584.4	729.3	888.0	1032.9	1155.2	1245.9	1286.7	1318.4
65°	267.2	294.5	335.3	416.8	539.1	652.3	765.7	856.3	915.2	960.6	978.6
67.5°	199.3	217.4	240.2	303.6	389.6	480.2	557.2	620.6	684.2	702.3	734.0
70°	149.6	163.2	185.7	231.0	280.8	344.2	407.8	444.0	489.3	521.0	530.2
72.5°	95.1	99.6	122.3	149.6	190.2	231.0	271.9	303.6	330.8	348.9	357.9
75°	54.5	81.5	81.5	108.7	135.9	154.0	181.3	203.8	217.4	231.0	231.0
77.5°	36.2	49.8	54.5	67.9	81.5	104.2	126.8	140.4	154.0	158.5	158.5
80°	31.7	36.2	36.2	49.8	58.9	77.0	90.6	95.1	104.2	108.7	117.9
82.5°	13.6	18.1	22.6	36.2	40.8	40.8	54.5	58.9	67.9	72.5	72.5
85°	4.5	9.1	9.1	13.6	22.6	27.2	31.7	36.2	40.8	40.8	45.3
87.5°	4.5	4.5	0.0	4.5	9.1	9.1	18.1	18.1	18.1	27.2	27.2
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: P248557

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4	9278.4
2.5°	9197.0	9201.4	9183.3	9178.9	9169.7	9174.2	9183.3
5°	9029.3	9033.8	9015.7	8997.6	8997.6	8992.9	8997.6
7.5°	8870.6	8875.3	8848.0	8838.9	8820.8	8825.5	8825.5
10°	8712.1	8712.1	8671.5	8666.8	8653.2	8648.7	8648.7
12.5°	8558.1	8544.5	8512.8	8494.7	8503.8	8476.6	8476.6
15°	8422.1	8399.6	8358.7	8345.1	8322.6	8313.4	8313.4
17.5°	8281.7	8263.6	8227.4	8200.2	8173.0	8168.5	8173.0
20°	8145.8	8127.7	8082.4	8064.3	8041.7	8041.7	8032.6
22.5°	8009.8	7991.7	7951.1	7937.5	7905.8	7905.8	7910.2
25°	7869.4	7855.8	7810.5	7801.5	7797.1	7778.8	7787.9
27.5°	7679.2	7670.1	7633.9	7620.3	7602.2	7597.7	7606.7
30°	7330.3	7316.7	7289.6	7276.0	7244.3	7248.8	7257.8
32.5°	6895.4	6877.3	6841.0	6827.4	6800.3	6791.2	6795.7
35°	6351.8	6338.2	6306.5	6306.5	6279.3	6270.2	6279.3
37.5°	5799.1	5812.5	5799.1	5812.5	5799.1	5794.5	5799.1
40°	5278.1	5327.9	5336.8	5386.8	5368.7	5395.8	5391.3
42.5°	4779.6	4861.1	4893.0	4933.7	4924.7	4942.8	4956.4
45°	4276.7	4344.8	4376.5	4403.7	4408.2	4417.3	4421.8
47.5°	3801.0	3855.5	3859.9	3891.6	3887.2	3887.2	3900.8
50°	3357.2	3393.4	3402.3	3425.1	3407.0	3397.8	3402.3
52.5°	2944.9	2981.1	2971.9	2981.1	2958.5	2949.3	2953.8
55°	2523.4	2541.5	2541.5	2541.5	2514.5	2514.5	2514.5
57.5°	2093.0	2097.7	2088.6	2093.0	2088.6	2061.3	2056.9
60°	1699.0	1699.0	1694.3	1699.0	1685.4	1671.8	1671.8
62.5°	1327.4	1336.5	1354.6	1336.5	1327.4	1336.5	1322.9
65°	992.3	1010.3	1005.7	1014.8	1010.3	1010.3	1001.2
67.5°	747.6	752.1	756.5	761.2	761.2	761.2	761.2
70°	548.2	561.9	557.2	557.2	557.2	557.2	584.4
72.5°	367.0	385.1	380.6	389.6	389.6	398.7	389.6
75°	249.1	267.2	258.3	271.9	267.2	258.3	280.8
77.5°	167.6	176.8	181.3	185.7	181.3	176.8	181.3
80°	117.9	126.8	122.3	126.8	126.8	126.8	131.5
82.5°	72.5	86.2	81.5	86.2	81.5	86.2	86.2
85°	49.8	54.5	45.3	54.5	49.8	49.8	58.9
87.5°	31.7	27.2	27.2	31.7	27.2	31.7	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)