

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: P248629

Luminaire Tested: **LD8B150D010 ER8B150950 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248629  
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 ER8B150950 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14987.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

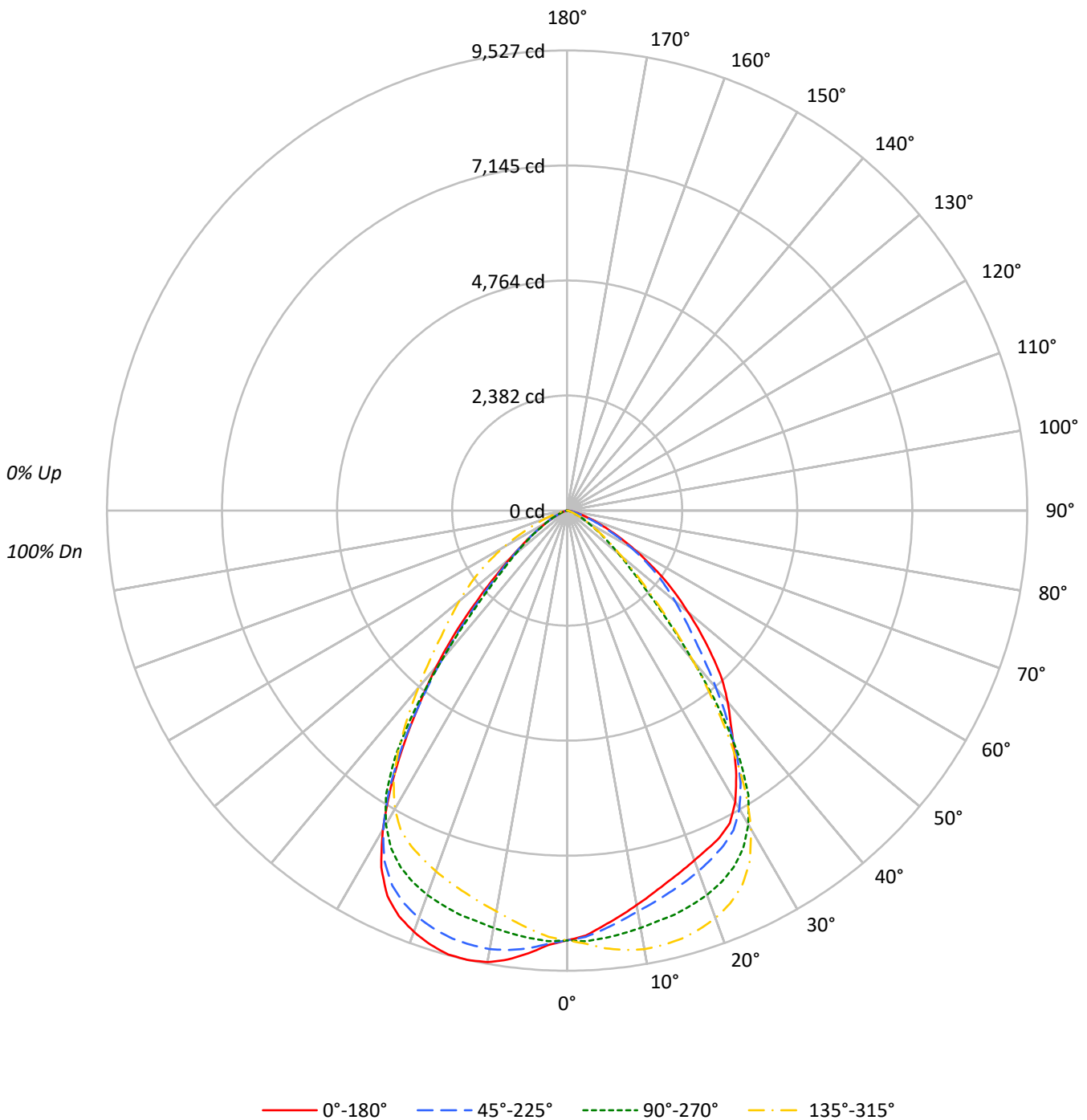
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	274360	274360	274360	274360
5°	267072	275006	284824	275006
10°	259683	274644	297226	274644
15°	254496	276274	303732	276274
20°	252763	277854	304513	277854
25°	254092	277296	299620	277296
30°	247808	267146	271946	267146
35°	226671	233044	221111	233044
40°	208105	162111	169288	162111
45°	184911	98897	114430	98897
50°	156511	66063	73365	66063
55°	129630	45079	47643	45079
60°	98867	30010	30275	30010
65°	70054	18694	17118	18694
70°	50525	12523	11369	12523
75°	32085	6219	5183	6219
80°	22393	4635	3836	4635
85°	19990	0	1521	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	846.9	5.7
10°-20°	2452.3	16.4
20°-30°	3713.4	24.8
30°-40°	3721.7	24.8
40°-50°	2337.0	15.6
50°-60°	1245.4	8.3
60°-70°	512.1	3.4
70°-80°	135.3	0.9
80°-90°	22.9	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°	7012.6	46.8
0°-40°	10734.2	71.6
0°-60°	14316.7	95.5
0°-90°	14987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8897	8897	8897	8897	8897	
5°	8628	8884	9202	8884	8628	814
15°	7972	8654	9514	8654	7972	2255
25°	7468	8150	8806	8150	7468	3425
35°	6021	6191	5874	6191	6021	3772
45°	4240	2268	2624	2268	4240	3261
55°	2411	838	886	838	2411	2150
65°	960	256	235	256	960	996
75°	269	52	44	52	269	305
85°	56	0	4	0	56	62
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°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8806.1	8797.3	8793.1	8801.8	8806.1	8823.5	8819.2	8827.7	8827.7	8832.2	8840.8
5°	8628.0	8623.5	8628.0	8628.0	8645.4	8662.7	8658.4	8671.5	8680.0	8701.9	8710.4
7.5°	8463.0	8463.0	8458.5	8475.8	8484.6	8510.7	8506.2	8528.0	8541.1	8562.7	8593.1
10°	8293.4	8293.4	8297.7	8310.8	8315.3	8354.2	8354.2	8384.6	8402.0	8423.8	8463.0
12.5°	8128.4	8128.4	8154.5	8145.7	8163.1	8193.5	8206.5	8236.9	8263.0	8306.5	8345.7
15°	7971.9	7971.9	7980.7	8002.3	8015.4	8054.5	8076.2	8111.0	8141.4	8184.9	8241.4
17.5°	7837.3	7833.0	7837.3	7863.4	7889.5	7924.2	7941.5	7985.0	8015.4	8071.9	8124.1
20°	7702.6	7711.4	7711.4	7733.0	7750.4	7793.8	7811.2	7859.1	7893.8	7945.8	8006.8
22.5°	7585.3	7581.0	7581.0	7611.4	7624.5	7663.5	7680.8	7724.3	7763.4	7806.9	7863.4
25°	7468.0	7459.2	7476.8	7481.1	7489.6	7533.1	7546.2	7576.6	7615.7	7654.9	7711.4
27.5°	7294.2	7285.6	7289.9	7307.3	7320.3	7355.0	7363.8	7394.2	7424.6	7459.2	7507.2
30°	6959.6	6951.0	6946.8	6977.2	6990.2	7016.1	7029.2	7081.4	7090.0	7129.1	7163.8
32.5°	6516.5	6512.2	6521.0	6546.9	6560.0	6594.8	6612.2	6642.6	6664.2	6686.0	6720.7
35°	6021.4	6012.6	6021.4	6047.5	6047.5	6077.9	6090.9	6103.8	6099.5	6103.8	6095.2
37.5°	5560.9	5556.4	5560.9	5573.8	5560.9	5573.8	5560.9	5534.8	5487.1	5434.8	5382.6
40°	5169.8	5174.1	5148.2	5165.5	5117.6	5109.0	5061.3	4996.0	4900.5	4796.3	4648.6
42.5°	4752.8	4739.8	4722.4	4731.0	4692.0	4661.4	4583.3	4500.9	4379.1	4205.5	4027.2
45°	4240.2	4235.9	4227.1	4222.8	4196.7	4166.3	4101.0	4005.5	3870.9	3692.8	3479.8
47.5°	3740.5	3727.5	3727.5	3731.8	3701.4	3697.1	3644.9	3562.4	3445.1	3271.3	3049.8
50°	3262.5	3258.3	3267.0	3284.4	3262.5	3254.0	3219.3	3162.8	3058.5	2910.8	2702.1
52.5°	2832.5	2828.2	2837.0	2858.6	2849.8	2858.6	2823.9	2780.5	2710.9	2567.5	2385.1
55°	2411.2	2411.2	2411.2	2437.1	2437.1	2437.1	2419.8	2393.8	2328.6	2224.3	2055.0
57.5°	1972.4	1976.7	2002.8	2007.1	2002.8	2011.5	2007.1	1981.0	1937.7	1863.8	1733.5
60°	1603.1	1603.1	1616.2	1629.2	1624.7	1629.2	1629.2	1616.2	1572.7	1511.9	1407.7
62.5°	1268.5	1281.6	1272.8	1281.6	1298.9	1281.6	1272.8	1264.2	1233.8	1194.7	1107.8
65°	960.1	968.8	968.8	973.1	964.4	968.8	951.5	938.4	921.1	877.6	821.1
67.5°	729.9	729.9	729.9	729.9	725.5	721.2	716.9	703.8	673.4	656.1	595.1
70°	560.4	534.3	534.3	534.3	534.3	538.8	525.7	508.4	499.6	469.2	425.8
72.5°	373.6	382.3	373.6	373.6	365.0	369.3	351.9	343.2	334.6	317.2	291.1
75°	269.3	247.7	256.2	260.7	247.7	256.2	238.9	221.6	221.6	208.5	195.4
77.5°	173.8	169.5	173.8	178.1	173.8	169.5	160.8	152.0	152.0	147.7	134.7
80°	126.1	121.6	121.6	121.6	117.3	121.6	113.0	113.0	104.3	100.0	91.2
82.5°	82.6	82.6	78.1	82.6	78.1	82.6	69.6	69.6	69.6	65.1	56.5
85°	56.5	47.7	47.7	52.2	43.5	52.2	47.7	43.5	39.2	39.2	34.7
87.5°	26.1	30.4	26.1	30.4	26.1	26.1	30.4	26.1	26.1	17.3	17.3
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°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8853.9	8858.1	8858.1	8875.7	8884.3	8888.5	8888.5	8923.4	8910.4	8919.1	8927.7
5°	8728.0	8753.9	8762.7	8762.7	8810.4	8827.7	8845.1	8884.3	8888.5	8914.7	8945.1
7.5°	8606.2	8636.6	8654.1	8693.1	8723.5	8753.9	8806.1	8832.2	8858.1	8893.0	8932.0
10°	8488.9	8523.8	8558.4	8588.8	8636.6	8675.8	8710.4	8771.2	8801.8	8849.6	8901.6
12.5°	8376.1	8423.8	8454.2	8506.2	8558.4	8593.1	8645.4	8701.9	8749.6	8797.3	8858.1
15°	8276.1	8332.6	8367.3	8423.8	8480.3	8528.0	8584.6	8654.1	8688.8	8745.3	8801.8
17.5°	8167.4	8228.3	8271.8	8323.8	8393.4	8445.4	8493.4	8562.7	8606.2	8667.0	8732.3
20°	8054.5	8115.3	8167.4	8219.6	8289.1	8341.2	8397.7	8467.2	8515.0	8575.8	8628.0
22.5°	7919.9	7976.4	8032.7	8093.5	8163.1	8206.5	8271.8	8332.6	8384.6	8441.1	8493.4
25°	7746.1	7815.6	7859.1	7915.4	7971.9	8019.7	8089.2	8150.0	8193.5	8245.7	8293.4
27.5°	7541.9	7594.1	7628.8	7676.5	7733.0	7776.5	7828.5	7889.5	7932.9	7980.7	8015.4
30°	7194.2	7242.2	7272.6	7307.3	7363.8	7402.9	7446.4	7502.7	7533.1	7568.0	7598.4
32.5°	6738.1	6777.2	6794.6	6820.7	6859.8	6898.8	6933.7	6981.4	6994.5	7016.1	7016.1
35°	6077.9	6086.5	6082.2	6090.9	6108.3	6129.9	6160.3	6190.7	6208.1	6208.1	6195.2
37.5°	5304.5	5252.4	5195.9	5152.5	5139.4	5130.7	5148.2	5161.1	5178.6	5187.2	5165.5
40°	4500.9	4383.6	4257.5	4144.5	4066.3	4031.6	4018.6	4027.2	4027.2	4057.6	4057.6
42.5°	3810.1	3627.5	3440.8	3271.3	3158.3	3071.6	3032.4	3032.4	3036.7	3058.5	3071.6
45°	3236.6	3006.3	2789.0	2602.3	2445.9	2332.9	2280.8	2267.8	2263.5	2272.1	2302.5
47.5°	2797.8	2558.9	2332.9	2102.7	1937.7	1824.7	1776.9	1759.4	1742.1	1759.4	1763.9
50°	2454.6	2207.0	1968.1	1737.8	1563.9	1464.0	1403.2	1377.1	1372.8	1372.8	1381.6
52.5°	2141.7	1911.6	1672.7	1438.1	1255.5	1160.0	1103.5	1090.4	1073.1	1090.4	1090.4
55°	1846.3	1616.2	1381.6	1160.0	1007.8	908.0	855.8	838.5	829.7	842.8	842.8
57.5°	1525.0	1329.3	1112.3	912.3	760.3	690.8	651.6	630.0	625.5	634.3	625.5
60°	1251.2	1086.1	899.3	716.9	599.6	525.7	495.3	486.6	477.8	486.6	486.6
62.5°	990.5	851.5	699.4	560.4	460.5	408.4	373.6	373.6	369.3	369.3	373.6
65°	734.2	625.5	517.0	399.7	321.5	282.4	256.2	256.2	252.0	256.2	252.0
67.5°	534.3	460.5	373.6	291.1	230.3	208.5	191.2	178.1	186.9	178.1	173.8
70°	391.1	330.1	269.3	221.6	178.1	156.5	143.4	138.9	130.4	130.4	130.4
72.5°	260.7	221.6	182.4	143.4	117.3	95.5	91.2	82.6	73.9	78.1	86.9
75°	173.8	147.7	130.4	104.3	78.1	78.1	52.2	52.2	43.5	52.2	39.2
77.5°	121.6	100.0	78.1	65.1	52.2	47.7	34.7	34.7	30.4	30.4	30.4
80°	86.9	73.9	56.5	47.7	34.7	34.7	30.4	26.1	21.6	21.6	26.1
82.5°	52.2	39.2	39.2	34.7	21.6	17.3	13.1	17.3	8.8	8.8	8.8
85°	30.4	26.1	21.6	13.1	8.8	8.8	4.3	0.0	4.3	4.3	0.0
87.5°	17.3	8.8	8.8	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.8
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°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8949.5	8945.1	8953.8	8953.8	8979.9	8975.5	8988.5	8988.5	8979.9	8984.2	9001.6
5°	8979.9	8993.0	9018.9	9040.7	9079.7	9097.2	9118.9	9140.7	9145.0	9158.0	9171.1
7.5°	8979.9	9023.4	9053.8	9092.8	9145.0	9175.4	9223.1	9262.3	9279.6	9301.3	9327.4
10°	8962.4	9005.9	9062.4	9105.8	9171.1	9218.8	9266.6	9327.4	9353.5	9388.2	9423.0
12.5°	8927.7	8975.5	9036.2	9092.8	9166.6	9210.1	9270.9	9327.4	9366.5	9414.3	9453.4
15°	8875.7	8932.0	8988.5	9045.0	9123.2	9175.4	9231.9	9297.0	9336.1	9388.2	9423.0
17.5°	8793.1	8853.9	8906.1	8958.1	9032.0	9092.8	9145.0	9205.8	9244.9	9288.4	9336.1
20°	8693.1	8749.6	8806.1	8849.6	8923.4	8975.5	9032.0	9088.5	9118.9	9127.6	9201.5
22.5°	8567.2	8606.2	8649.6	8719.2	8762.7	8810.4	8862.6	8914.7	8945.1	8993.0	9018.9
25°	8358.5	8397.7	8445.4	8475.8	8528.0	8567.2	8619.2	8675.8	8693.1	8728.0	8753.9
27.5°	8067.6	8089.2	8111.0	8137.0	8167.4	8189.2	8219.6	8245.7	8263.0	8280.4	8297.7
30°	7607.0	7607.0	7607.0	7589.6	7602.7	7615.7	7620.0	7615.7	7615.7	7611.4	7611.4
32.5°	6998.8	6964.1	6924.9	6890.2	6877.2	6859.8	6851.1	6838.0	6816.4	6803.3	6807.6
35°	6177.7	6099.5	6051.8	6008.3	5973.6	5947.5	5934.5	5921.4	5917.1	5899.8	5882.2
37.5°	5152.5	5096.0	5061.3	5035.2	5004.8	4978.7	4983.0	4987.4	5000.3	4991.7	4996.0
40°	4066.3	4053.3	4066.3	4035.9	4027.2	4035.9	4057.6	4088.2	4105.5	4122.8	4153.2
42.5°	3093.2	3114.8	3145.4	3145.4	3158.3	3175.8	3201.8	3249.7	3275.6	3306.0	3340.9
45°	2328.6	2354.7	2393.8	2406.7	2415.5	2437.1	2467.7	2506.7	2524.0	2550.1	2580.5
47.5°	1794.3	1811.6	1833.3	1855.1	1876.7	1885.5	1915.9	1915.9	1937.7	1955.0	1963.6
50°	1398.9	1416.2	1433.6	1446.6	1455.4	1468.5	1477.0	1490.1	1494.4	1503.2	1507.4
52.5°	1094.7	1116.5	1116.5	1125.1	1138.2	1151.2	1146.9	1151.2	1155.5	1155.5	1168.6
55°	855.8	855.8	868.9	868.9	877.6	873.2	877.6	877.6	877.6	877.6	881.9
57.5°	638.6	643.0	656.1	647.3	643.0	651.6	643.0	651.6	647.3	656.1	643.0
60°	490.9	490.9	495.3	495.3	499.6	499.6	499.6	495.3	495.3	490.9	490.9
62.5°	369.3	373.6	378.0	373.6	373.6	373.6	369.3	369.3	365.0	360.5	360.5
65°	247.7	243.4	252.0	243.4	247.7	247.7	243.4	247.7	234.6	238.9	234.6
67.5°	178.1	173.8	169.5	173.8	169.5	165.0	165.0	169.5	173.8	160.8	160.8
70°	117.3	121.6	117.3	121.6	126.1	126.1	121.6	117.3	121.6	113.0	117.3
72.5°	73.9	73.9	73.9	73.9	73.9	78.1	78.1	78.1	69.6	69.6	65.1
75°	34.7	47.7	39.2	34.7	47.7	47.7	43.5	43.5	39.2	39.2	39.2
77.5°	34.7	26.1	26.1	26.1	26.1	26.1	26.1	26.1	21.6	26.1	21.6
80°	17.3	17.3	17.3	13.1	17.3	17.3	21.6	17.3	17.3	13.1	21.6
82.5°	8.8	8.8	8.8	0.0	4.3	8.8	8.8	4.3	8.8	8.8	4.3
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: P248629

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8997.3	8993.0	8997.3	9001.6	8997.3	8993.0	8997.3	9001.6	8984.2	8979.9	8988.5
5°	9188.4	9188.4	9197.0	9201.5	9197.0	9188.4	9188.4	9171.1	9158.0	9145.0	9140.7
7.5°	9353.5	9362.2	9370.8	9375.1	9370.8	9362.2	9353.5	9327.4	9301.3	9279.6	9262.3
10°	9453.4	9466.5	9483.8	9492.4	9483.8	9466.5	9453.4	9423.0	9388.2	9353.5	9327.4
12.5°	9496.9	9509.9	9531.6	9527.3	9531.6	9509.9	9496.9	9453.4	9414.3	9366.5	9327.4
15°	9466.5	9483.8	9505.5	9514.2	9505.5	9483.8	9466.5	9423.0	9388.2	9336.1	9297.0
17.5°	9370.8	9396.9	9410.0	9423.0	9410.0	9396.9	9370.8	9336.1	9288.4	9244.9	9205.8
20°	9240.5	9258.0	9275.3	9279.6	9275.3	9258.0	9240.5	9201.5	9127.6	9118.9	9088.5
22.5°	9053.8	9066.8	9105.8	9092.8	9105.8	9066.8	9053.8	9018.9	8993.0	8945.1	8914.7
25°	8784.3	8797.3	8801.8	8806.1	8801.8	8797.3	8784.3	8753.9	8728.0	8693.1	8675.8
27.5°	8319.5	8319.5	8328.1	8332.6	8328.1	8319.5	8319.5	8297.7	8280.4	8263.0	8245.7
30°	7615.7	7615.7	7615.7	7637.5	7615.7	7615.7	7615.7	7611.4	7611.4	7615.7	7615.7
32.5°	6803.3	6794.6	6786.0	6794.6	6786.0	6794.6	6803.3	6807.6	6803.3	6816.4	6838.0
35°	5882.2	5878.0	5891.0	5873.7	5891.0	5878.0	5882.2	5882.2	5899.8	5917.1	5921.4
37.5°	5000.3	4991.7	5009.1	4991.7	5009.1	4991.7	5000.3	4996.0	4991.7	5000.3	4987.4
40°	4162.0	4170.6	4170.6	4205.5	4170.6	4170.6	4162.0	4153.2	4122.8	4105.5	4088.2
42.5°	3358.2	3384.3	3375.6	3401.7	3375.6	3384.3	3358.2	3340.9	3306.0	3275.6	3249.7
45°	2597.9	2615.4	2615.4	2624.0	2615.4	2615.4	2597.9	2580.5	2550.1	2524.0	2506.7
47.5°	1994.0	1994.0	1994.0	1998.5	1994.0	1994.0	1994.0	1963.6	1955.0	1937.7	1915.9
50°	1516.2	1520.5	1525.0	1529.3	1525.0	1520.5	1516.2	1507.4	1503.2	1494.4	1490.1
52.5°	1164.3	1168.6	1160.0	1168.6	1160.0	1168.6	1164.3	1168.6	1155.5	1155.5	1151.2
55°	881.9	877.6	881.9	886.2	881.9	877.6	881.9	881.9	877.6	877.6	877.6
57.5°	647.3	638.6	638.6	638.6	638.6	638.6	647.3	643.0	656.1	647.3	651.6
60°	482.3	486.6	486.6	490.9	486.6	486.6	482.3	490.9	490.9	495.3	495.3
62.5°	356.2	369.3	360.5	369.3	360.5	369.3	356.2	360.5	360.5	365.0	369.3
65°	230.3	230.3	230.3	234.6	230.3	230.3	230.3	234.6	238.9	234.6	247.7
67.5°	156.5	160.8	169.5	165.0	169.5	160.8	156.5	160.8	160.8	173.8	169.5
70°	126.1	113.0	113.0	126.1	113.0	113.0	126.1	117.3	113.0	121.6	117.3
72.5°	73.9	65.1	73.9	73.9	73.9	65.1	73.9	65.1	69.6	69.6	78.1
75°	39.2	34.7	30.4	43.5	30.4	34.7	39.2	39.2	39.2	39.2	43.5
77.5°	26.1	21.6	30.4	30.4	30.4	21.6	26.1	21.6	26.1	21.6	26.1
80°	13.1	17.3	13.1	21.6	13.1	17.3	13.1	21.6	13.1	17.3	17.3
82.5°	4.3	8.8	8.8	8.8	8.8	8.8	4.3	4.3	8.8	8.8	4.3
85°	0.0	8.8	4.3	4.3	4.3	8.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	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: P248629

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8988.5	8975.5	8979.9	8953.8	8953.8	8945.1	8949.5	8927.7	8919.1	8910.4	8923.4
5°	9118.9	9097.2	9079.7	9040.7	9018.9	8993.0	8979.9	8945.1	8914.7	8888.5	8884.3
7.5°	9223.1	9175.4	9145.0	9092.8	9053.8	9023.4	8979.9	8932.0	8893.0	8858.1	8832.2
10°	9266.6	9218.8	9171.1	9105.8	9062.4	9005.9	8962.4	8901.6	8849.6	8801.8	8771.2
12.5°	9270.9	9210.1	9166.6	9092.8	9036.2	8975.5	8927.7	8858.1	8797.3	8749.6	8701.9
15°	9231.9	9175.4	9123.2	9045.0	8988.5	8932.0	8875.7	8801.8	8745.3	8688.8	8654.1
17.5°	9145.0	9092.8	9032.0	8958.1	8906.1	8853.9	8793.1	8732.3	8667.0	8606.2	8562.7
20°	9032.0	8975.5	8923.4	8849.6	8806.1	8749.6	8693.1	8628.0	8575.8	8515.0	8467.2
22.5°	8862.6	8810.4	8762.7	8719.2	8649.6	8606.2	8567.2	8493.4	8441.1	8384.6	8332.6
25°	8619.2	8567.2	8528.0	8475.8	8445.4	8397.7	8358.5	8293.4	8245.7	8193.5	8150.0
27.5°	8219.6	8189.2	8167.4	8137.0	8111.0	8089.2	8067.6	8015.4	7980.7	7932.9	7889.5
30°	7620.0	7615.7	7602.7	7589.6	7607.0	7607.0	7607.0	7598.4	7568.0	7533.1	7502.7
32.5°	6851.1	6859.8	6877.2	6890.2	6924.9	6964.1	6998.8	7016.1	7016.1	6994.5	6981.4
35°	5934.5	5947.5	5973.6	6008.3	6051.8	6099.5	6177.7	6195.2	6208.1	6208.1	6190.7
37.5°	4983.0	4978.7	5004.8	5035.2	5061.3	5096.0	5152.5	5165.5	5187.2	5178.6	5161.1
40°	4057.6	4035.9	4027.2	4035.9	4066.3	4053.3	4066.3	4057.6	4057.6	4027.2	4027.2
42.5°	3201.8	3175.8	3158.3	3145.4	3145.4	3114.8	3093.2	3071.6	3058.5	3036.7	3032.4
45°	2467.7	2437.1	2415.5	2406.7	2393.8	2354.7	2328.6	2302.5	2272.1	2263.5	2267.8
47.5°	1915.9	1885.5	1876.7	1855.1	1833.3	1811.6	1794.3	1763.9	1759.4	1742.1	1759.4
50°	1477.0	1468.5	1455.4	1446.6	1433.6	1416.2	1398.9	1381.6	1372.8	1372.8	1377.1
52.5°	1146.9	1151.2	1138.2	1125.1	1116.5	1116.5	1094.7	1090.4	1090.4	1073.1	1090.4
55°	877.6	873.2	877.6	868.9	868.9	855.8	855.8	842.8	842.8	829.7	838.5
57.5°	643.0	651.6	643.0	647.3	656.1	643.0	638.6	625.5	634.3	625.5	630.0
60°	499.6	499.6	499.6	495.3	495.3	490.9	490.9	486.6	486.6	477.8	486.6
62.5°	369.3	373.6	373.6	373.6	378.0	373.6	369.3	373.6	369.3	369.3	373.6
65°	243.4	247.7	247.7	243.4	252.0	243.4	247.7	252.0	256.2	252.0	256.2
67.5°	165.0	165.0	169.5	173.8	169.5	173.8	178.1	173.8	178.1	186.9	178.1
70°	121.6	126.1	126.1	121.6	117.3	121.6	117.3	130.4	130.4	130.4	138.9
72.5°	78.1	78.1	73.9	73.9	73.9	73.9	73.9	86.9	78.1	73.9	82.6
75°	43.5	47.7	47.7	34.7	39.2	47.7	34.7	39.2	52.2	43.5	52.2
77.5°	26.1	26.1	26.1	26.1	26.1	26.1	34.7	30.4	30.4	30.4	34.7
80°	21.6	17.3	17.3	13.1	17.3	17.3	17.3	26.1	21.6	21.6	26.1
82.5°	8.8	8.8	4.3	0.0	8.8	8.8	8.8	8.8	8.8	8.8	17.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	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: P248629

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8888.5	8888.5	8884.3	8875.7	8858.1	8858.1	8853.9	8840.8	8832.2	8827.7	8827.7
5°	8845.1	8827.7	8810.4	8762.7	8762.7	8753.9	8728.0	8710.4	8701.9	8680.0	8671.5
7.5°	8806.1	8753.9	8723.5	8693.1	8654.1	8636.6	8606.2	8593.1	8562.7	8541.1	8528.0
10°	8710.4	8675.8	8636.6	8588.8	8558.4	8523.8	8488.9	8463.0	8423.8	8402.0	8384.6
12.5°	8645.4	8593.1	8558.4	8506.2	8454.2	8423.8	8376.1	8345.7	8306.5	8263.0	8236.9
15°	8584.6	8528.0	8480.3	8423.8	8367.3	8332.6	8276.1	8241.4	8184.9	8141.4	8111.0
17.5°	8493.4	8445.4	8393.4	8323.8	8271.8	8228.3	8167.4	8124.1	8071.9	8015.4	7985.0
20°	8397.7	8341.2	8289.1	8219.6	8167.4	8115.3	8054.5	8006.8	7945.8	7893.8	7859.1
22.5°	8271.8	8206.5	8163.1	8093.5	8032.7	7976.4	7919.9	7863.4	7806.9	7763.4	7724.3
25°	8089.2	8019.7	7971.9	7915.4	7859.1	7815.6	7746.1	7711.4	7654.9	7615.7	7576.6
27.5°	7828.5	7776.5	7733.0	7676.5	7628.8	7594.1	7541.9	7507.2	7459.2	7424.6	7394.2
30°	7446.4	7402.9	7363.8	7307.3	7272.6	7242.2	7194.2	7163.8	7129.1	7090.0	7081.4
32.5°	6933.7	6898.8	6859.8	6820.7	6794.6	6777.2	6738.1	6720.7	6686.0	6664.2	6642.6
35°	6160.3	6129.9	6108.3	6090.9	6082.2	6086.5	6077.9	6095.2	6103.8	6099.5	6103.8
37.5°	5148.2	5130.7	5139.4	5152.5	5195.9	5252.4	5304.5	5382.6	5434.8	5487.1	5534.8
40°	4018.6	4031.6	4066.3	4144.5	4257.5	4383.6	4500.9	4648.6	4796.3	4900.5	4996.0
42.5°	3032.4	3071.6	3158.3	3271.3	3440.8	3627.5	3810.1	4027.2	4205.5	4379.1	4500.9
45°	2280.8	2332.9	2445.9	2602.3	2789.0	3006.3	3236.6	3479.8	3692.8	3870.9	4005.5
47.5°	1776.9	1824.7	1937.7	2102.7	2332.9	2558.9	2797.8	3049.8	3271.3	3445.1	3562.4
50°	1403.2	1464.0	1563.9	1737.8	1968.1	2207.0	2454.6	2702.1	2910.8	3058.5	3162.8
52.5°	1103.5	1160.0	1255.5	1438.1	1672.7	1911.6	2141.7	2385.1	2567.5	2710.9	2780.5
55°	855.8	908.0	1007.8	1160.0	1381.6	1616.2	1846.3	2055.0	2224.3	2328.6	2393.8
57.5°	651.6	690.8	760.3	912.3	1112.3	1329.3	1525.0	1733.5	1863.8	1937.7	1981.0
60°	495.3	525.7	599.6	716.9	899.3	1086.1	1251.2	1407.7	1511.9	1572.7	1616.2
62.5°	373.6	408.4	460.5	560.4	699.4	851.5	990.5	1107.8	1194.7	1233.8	1264.2
65°	256.2	282.4	321.5	399.7	517.0	625.5	734.2	821.1	877.6	921.1	938.4
67.5°	191.2	208.5	230.3	291.1	373.6	460.5	534.3	595.1	656.1	673.4	703.8
70°	143.4	156.5	178.1	221.6	269.3	330.1	391.1	425.8	469.2	499.6	508.4
72.5°	91.2	95.5	117.3	143.4	182.4	221.6	260.7	291.1	317.2	334.6	343.2
75°	52.2	78.1	78.1	104.3	130.4	147.7	173.8	195.4	208.5	221.6	221.6
77.5°	34.7	47.7	52.2	65.1	78.1	100.0	121.6	134.7	147.7	152.0	152.0
80°	30.4	34.7	34.7	47.7	56.5	73.9	86.9	91.2	100.0	104.3	113.0
82.5°	13.1	17.3	21.6	34.7	39.2	39.2	52.2	56.5	65.1	69.6	69.6
85°	4.3	8.8	8.8	13.1	21.6	26.1	30.4	34.7	39.2	39.2	43.5
87.5°	4.3	4.3	0.0	4.3	8.8	8.8	17.3	17.3	17.3	26.1	26.1
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: P248629

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3	8897.3
2.5°	8819.2	8823.5	8806.1	8801.8	8793.1	8797.3	8806.1
5°	8658.4	8662.7	8645.4	8628.0	8628.0	8623.5	8628.0
7.5°	8506.2	8510.7	8484.6	8475.8	8458.5	8463.0	8463.0
10°	8354.2	8354.2	8315.3	8310.8	8297.7	8293.4	8293.4
12.5°	8206.5	8193.5	8163.1	8145.7	8154.5	8128.4	8128.4
15°	8076.2	8054.5	8015.4	8002.3	7980.7	7971.9	7971.9
17.5°	7941.5	7924.2	7889.5	7863.4	7837.3	7833.0	7837.3
20°	7811.2	7793.8	7750.4	7733.0	7711.4	7711.4	7702.6
22.5°	7680.8	7663.5	7624.5	7611.4	7581.0	7581.0	7585.3
25°	7546.2	7533.1	7489.6	7481.1	7476.8	7459.2	7468.0
27.5°	7363.8	7355.0	7320.3	7307.3	7289.9	7285.6	7294.2
30°	7029.2	7016.1	6990.2	6977.2	6946.8	6951.0	6959.6
32.5°	6612.2	6594.8	6560.0	6546.9	6521.0	6512.2	6516.5
35°	6090.9	6077.9	6047.5	6047.5	6021.4	6012.6	6021.4
37.5°	5560.9	5573.8	5560.9	5573.8	5560.9	5556.4	5560.9
40°	5061.3	5109.0	5117.6	5165.5	5148.2	5174.1	5169.8
42.5°	4583.3	4661.4	4692.0	4731.0	4722.4	4739.8	4752.8
45°	4101.0	4166.3	4196.7	4222.8	4227.1	4235.9	4240.2
47.5°	3644.9	3697.1	3701.4	3731.8	3727.5	3727.5	3740.5
50°	3219.3	3254.0	3262.5	3284.4	3267.0	3258.3	3262.5
52.5°	2823.9	2858.6	2849.8	2858.6	2837.0	2828.2	2832.5
55°	2419.8	2437.1	2437.1	2437.1	2411.2	2411.2	2411.2
57.5°	2007.1	2011.5	2002.8	2007.1	2002.8	1976.7	1972.4
60°	1629.2	1629.2	1624.7	1629.2	1616.2	1603.1	1603.1
62.5°	1272.8	1281.6	1298.9	1281.6	1272.8	1281.6	1268.5
65°	951.5	968.8	964.4	973.1	968.8	968.8	960.1
67.5°	716.9	721.2	725.5	729.9	729.9	729.9	729.9
70°	525.7	538.8	534.3	534.3	534.3	534.3	560.4
72.5°	351.9	369.3	365.0	373.6	373.6	382.3	373.6
75°	238.9	256.2	247.7	260.7	256.2	247.7	269.3
77.5°	160.8	169.5	173.8	178.1	173.8	169.5	173.8
80°	113.0	121.6	117.3	121.6	121.6	121.6	126.1
82.5°	69.6	82.6	78.1	82.6	78.1	82.6	82.6
85°	47.7	52.2	43.5	52.2	47.7	47.7	56.5
87.5°	30.4	26.1	26.1	30.4	26.1	30.4	26.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)