

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: P248944

Luminaire Tested: **LD8B150D010 ER8B150940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248944
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 ER8B150940 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11060.0 lumens
Efficiency: N/A
Efficacy: 69.8 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

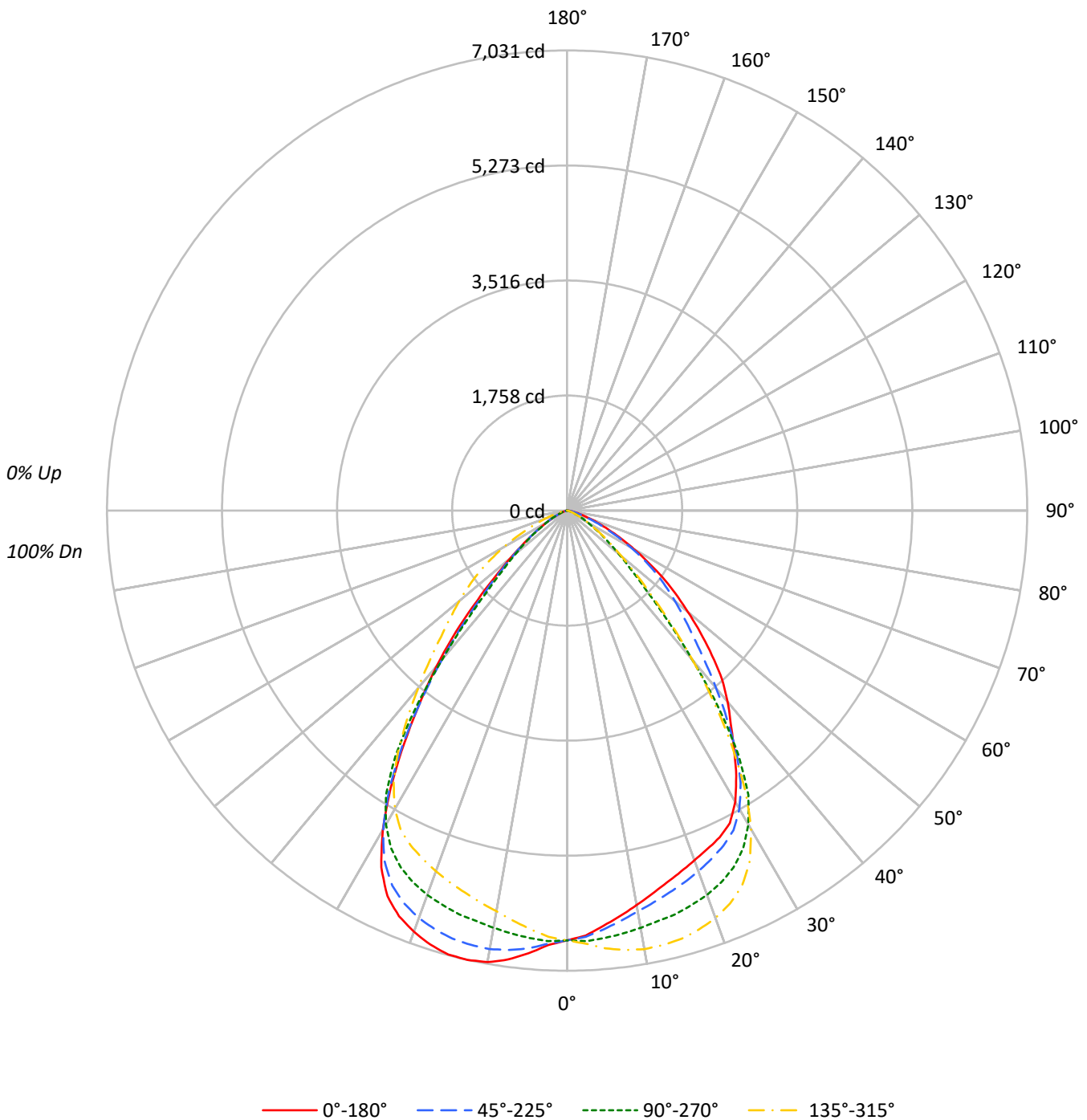
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	202471	202471	202471	202471
5°	197091	202944	210191	202944
10°	191639	202680	219344	202680
15°	187813	203883	224146	203883
20°	186532	205050	224723	205050
25°	187514	204638	221112	204638
30°	182876	197147	200690	197147
35°	167276	171981	163173	171981
40°	153577	119631	124928	119631
45°	136457	72984	84445	72984
50°	115504	48755	54142	48755
55°	95663	33268	35160	33268
60°	72965	22147	22338	22147
65°	51696	13798	12630	13798
70°	37290	9241	8385	9241
75°	23674	4587	3824	4587
80°	16515	3427	2841	3427
85°	14754	0	1132	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.0	5.7
10°-20°	1809.8	16.4
20°-30°	2740.4	24.8
30°-40°	2746.5	24.8
40°-50°	1724.7	15.6
50°-60°	919.1	8.3
60°-70°	377.9	3.4
70°-80°	99.8	0.9
80°-90°	16.9	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°	5175.1	46.8
0°-40°	7921.6	71.6
0°-60°	10565.3	95.5
0°-90°	11060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11060.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6566	6566	6566	6566	6566	
5°	6367	6556	6790	6556	6367	600
15°	5883	6386	7021	6386	5883	1664
25°	5511	6014	6499	6014	5511	2528
35°	4444	4569	4335	4569	4444	2784
45°	3129	1674	1936	1674	3129	2407
55°	1779	619	654	619	1779	1586
65°	708	189	173	189	708	735
75°	199	38	32	38	199	225
85°	42	0	3	0	42	46
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°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6498.7	6492.2	6489.0	6495.5	6498.7	6511.5	6508.3	6514.6	6514.6	6517.9	6524.3
5°	6367.2	6363.9	6367.2	6367.2	6380.0	6392.8	6389.7	6399.3	6405.6	6421.7	6428.1
7.5°	6245.4	6245.4	6242.1	6254.9	6261.4	6280.7	6277.4	6293.5	6303.1	6319.1	6341.5
10°	6120.3	6120.3	6123.5	6133.1	6136.4	6165.2	6165.2	6187.6	6200.4	6216.5	6245.4
12.5°	5998.5	5998.5	6017.8	6011.3	6024.1	6046.6	6056.2	6078.6	6097.9	6130.0	6158.9
15°	5883.1	5883.1	5889.5	5905.5	5915.1	5944.0	5960.0	5985.7	6008.2	6040.2	6081.9
17.5°	5783.7	5780.5	5783.7	5803.0	5822.2	5847.8	5860.6	5892.7	5915.1	5956.8	5995.4
20°	5684.3	5690.8	5690.8	5706.8	5719.6	5751.6	5764.4	5799.8	5825.4	5863.8	5908.8
22.5°	5597.8	5594.6	5594.6	5617.0	5626.7	5655.4	5668.2	5700.3	5729.2	5761.3	5803.0
25°	5511.2	5504.7	5517.7	5520.8	5527.2	5559.2	5568.9	5591.3	5620.2	5649.1	5690.8
27.5°	5382.9	5376.6	5379.8	5392.6	5402.2	5427.8	5434.3	5456.7	5479.1	5504.7	5540.1
30°	5136.0	5129.7	5126.5	5148.9	5158.6	5177.7	5187.3	5225.9	5232.2	5261.1	5286.7
32.5°	4809.0	4805.8	4812.3	4831.4	4841.1	4866.8	4879.6	4902.0	4918.0	4934.1	4959.7
35°	4443.6	4437.1	4443.6	4462.9	4462.9	4485.3	4494.9	4504.4	4501.3	4504.4	4498.1
37.5°	4103.8	4100.5	4103.8	4113.3	4103.8	4113.3	4103.8	4084.5	4049.3	4010.8	3972.2
40°	3815.2	3818.4	3799.2	3812.0	3776.7	3770.3	3735.1	3686.9	3616.5	3539.5	3430.5
42.5°	3507.5	3497.8	3485.0	3491.4	3462.6	3440.0	3382.4	3321.5	3231.7	3103.5	2971.9
45°	3129.1	3125.9	3119.5	3116.3	3097.0	3074.6	3026.4	2956.0	2856.6	2725.2	2568.0
47.5°	2760.4	2750.8	2750.8	2753.9	2731.5	2728.3	2689.8	2629.0	2542.4	2414.1	2250.6
50°	2407.7	2404.5	2411.0	2423.8	2407.7	2401.3	2375.7	2334.0	2257.1	2148.1	1994.1
52.5°	2090.3	2087.1	2093.6	2109.6	2103.1	2109.6	2084.0	2051.9	2000.6	1894.7	1760.1
55°	1779.4	1779.4	1779.4	1798.5	1798.5	1798.5	1785.7	1766.6	1718.4	1641.5	1516.5
57.5°	1455.6	1458.7	1478.0	1481.2	1478.0	1484.5	1481.2	1461.9	1430.0	1375.5	1279.3
60°	1183.1	1183.1	1192.7	1202.3	1199.0	1202.3	1202.3	1192.7	1160.6	1115.8	1038.8
62.5°	936.1	945.8	939.3	945.8	958.6	945.8	939.3	933.0	910.5	881.6	817.5
65°	708.5	715.0	715.0	718.1	711.7	715.0	702.2	692.5	679.7	647.7	606.0
67.5°	538.7	538.7	538.7	538.7	535.4	532.2	529.0	519.4	497.0	484.2	439.2
70°	413.6	394.3	394.3	394.3	394.3	397.6	388.0	375.2	368.7	346.3	314.2
72.5°	275.7	282.1	275.7	275.7	269.3	272.5	259.7	253.2	246.9	234.1	214.8
75°	198.7	182.8	189.1	192.4	182.8	189.1	176.3	163.5	163.5	153.9	144.2
77.5°	128.3	125.1	128.3	131.4	128.3	125.1	118.6	112.2	112.2	109.0	99.4
80°	93.0	89.7	89.7	89.7	86.6	89.7	83.4	83.4	76.9	73.8	67.3
82.5°	61.0	61.0	57.7	61.0	57.7	61.0	51.3	51.3	51.3	48.0	41.7
85°	41.7	35.2	35.2	38.5	32.1	38.5	35.2	32.1	28.9	28.9	25.6
87.5°	19.3	22.4	19.3	22.4	19.3	19.3	22.4	19.3	19.3	12.8	12.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6533.9	6537.1	6537.1	6550.0	6556.3	6559.5	6559.5	6585.2	6575.6	6582.1	6588.4
5°	6441.0	6460.1	6466.6	6466.6	6501.8	6514.6	6527.4	6556.3	6559.5	6578.8	6601.2
7.5°	6351.1	6373.6	6386.5	6415.3	6437.7	6460.1	6498.7	6517.9	6537.1	6562.8	6591.6
10°	6264.6	6290.3	6315.9	6338.3	6373.6	6402.5	6428.1	6472.9	6495.5	6530.7	6569.1
12.5°	6181.3	6216.5	6239.0	6277.4	6315.9	6341.5	6380.0	6421.7	6457.0	6492.2	6537.1
15°	6107.5	6149.2	6174.8	6216.5	6258.2	6293.5	6335.2	6386.5	6412.1	6453.8	6495.5
17.5°	6027.3	6072.3	6104.4	6142.8	6194.1	6232.5	6267.9	6319.1	6351.1	6396.0	6444.2
20°	5944.0	5988.9	6027.3	6065.8	6117.2	6155.6	6197.3	6248.6	6283.8	6328.7	6367.2
22.5°	5844.7	5886.4	5927.9	5972.8	6024.1	6056.2	6104.4	6149.2	6187.6	6229.3	6267.9
25°	5716.4	5767.7	5799.8	5841.4	5883.1	5918.3	5969.6	6014.5	6046.6	6085.1	6120.3
27.5°	5565.7	5604.2	5629.8	5665.1	5706.8	5738.8	5777.2	5822.2	5854.3	5889.5	5915.1
30°	5309.2	5344.5	5367.0	5392.6	5434.3	5463.2	5495.2	5536.8	5559.2	5585.0	5607.4
32.5°	4972.5	5001.4	5014.2	5033.5	5062.4	5091.1	5116.9	5152.1	5161.7	5177.7	5177.7
35°	4485.3	4491.6	4488.5	4494.9	4507.7	4523.7	4546.1	4568.6	4581.4	4581.4	4571.9
37.5°	3914.6	3876.2	3834.5	3802.4	3792.8	3786.3	3799.2	3808.7	3821.7	3828.0	3812.0
40°	3321.5	3235.0	3141.9	3058.5	3000.8	2975.2	2965.6	2971.9	2971.9	2994.4	2994.4
42.5°	2811.7	2677.0	2539.2	2414.1	2330.7	2266.7	2237.8	2237.8	2241.0	2257.1	2266.7
45°	2388.5	2218.6	2058.2	1920.5	1805.0	1721.6	1683.2	1673.6	1670.4	1676.7	1699.2
47.5°	2064.7	1888.4	1721.6	1551.8	1430.0	1346.6	1311.3	1298.4	1285.6	1298.4	1301.7
50°	1811.5	1628.7	1452.4	1282.4	1154.2	1080.4	1035.5	1016.3	1013.1	1013.1	1019.5
52.5°	1580.5	1410.7	1234.4	1061.2	926.5	856.0	814.3	804.7	791.9	804.7	804.7
55°	1362.5	1192.7	1019.5	856.0	743.7	670.1	631.6	618.8	612.3	621.9	621.9
57.5°	1125.4	981.0	820.8	673.3	561.1	509.8	480.9	464.9	461.6	468.1	461.6
60°	923.3	801.5	663.6	529.0	442.5	388.0	365.5	359.1	352.6	359.1	359.1
62.5°	730.9	628.4	516.1	413.6	339.8	301.4	275.7	275.7	272.5	272.5	275.7
65°	541.8	461.6	381.5	294.9	237.3	208.4	189.1	189.1	185.9	189.1	185.9
67.5°	394.3	339.8	275.7	214.8	170.0	153.9	141.1	131.4	137.9	131.4	128.3
70°	288.6	243.6	198.7	163.5	131.4	115.5	105.8	102.5	96.2	96.2	96.2
72.5°	192.4	163.5	134.6	105.8	86.6	70.5	67.3	61.0	54.5	57.7	64.1
75°	128.3	109.0	96.2	76.9	57.7	57.7	38.5	38.5	32.1	38.5	28.9
77.5°	89.7	73.8	57.7	48.0	38.5	35.2	25.6	25.6	22.4	22.4	22.4
80°	64.1	54.5	41.7	35.2	25.6	25.6	22.4	19.3	16.0	16.0	19.3
82.5°	38.5	28.9	28.9	25.6	16.0	12.8	9.6	12.8	6.5	6.5	6.5
85°	22.4	19.3	16.0	9.6	6.5	6.5	3.2	0.0	3.2	3.2	0.0
87.5°	12.8	6.5	6.5	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.5
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°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6604.5	6601.2	6607.7	6607.7	6626.9	6623.6	6633.3	6633.3	6626.9	6630.1	6642.9
5°	6626.9	6636.6	6655.7	6671.8	6700.6	6713.5	6729.5	6745.6	6748.7	6758.4	6768.0
7.5°	6626.9	6659.0	6681.4	6710.2	6748.7	6771.2	6806.4	6835.3	6848.1	6864.1	6883.3
10°	6614.0	6646.1	6687.8	6719.8	6768.0	6803.2	6838.5	6883.3	6902.6	6928.2	6953.9
12.5°	6588.4	6623.6	6668.5	6710.2	6764.7	6796.8	6841.6	6883.3	6912.2	6947.5	6976.4
15°	6550.0	6591.6	6633.3	6675.0	6732.6	6771.2	6812.9	6860.9	6889.8	6928.2	6953.9
17.5°	6489.0	6533.9	6572.4	6610.8	6665.3	6710.2	6748.7	6793.6	6822.5	6854.6	6889.8
20°	6415.3	6457.0	6498.7	6530.7	6585.2	6623.6	6665.3	6707.0	6729.5	6735.9	6790.4
22.5°	6322.4	6351.1	6383.2	6434.5	6466.6	6501.8	6540.4	6578.8	6601.2	6636.6	6655.7
25°	6168.4	6197.3	6232.5	6254.9	6293.5	6322.4	6360.8	6402.5	6415.3	6441.0	6460.1
27.5°	5953.7	5969.6	5985.7	6004.9	6027.3	6043.4	6065.8	6085.1	6097.9	6110.7	6123.5
30°	5613.7	5613.7	5613.7	5600.9	5610.6	5620.2	5623.4	5620.2	5620.2	5617.0	5617.0
32.5°	5164.9	5139.3	5110.4	5084.8	5075.2	5062.4	5055.9	5046.3	5030.3	5020.7	5023.8
35°	4558.9	4501.3	4466.0	4434.0	4408.4	4389.1	4379.5	4369.8	4366.7	4353.9	4340.9
37.5°	3802.4	3760.7	3735.1	3715.8	3693.4	3674.1	3677.3	3680.6	3690.1	3683.8	3686.9
40°	3000.8	2991.2	3000.8	2978.4	2971.9	2978.4	2994.4	3016.9	3029.7	3042.5	3065.0
42.5°	2282.7	2298.7	2321.2	2321.2	2330.7	2343.7	2362.8	2398.2	2417.3	2439.7	2465.5
45°	1718.4	1737.7	1766.6	1776.1	1782.6	1798.5	1821.1	1849.9	1862.7	1881.9	1904.4
47.5°	1324.1	1336.9	1352.9	1369.0	1385.0	1391.4	1413.9	1413.9	1430.0	1442.8	1449.1
50°	1032.3	1045.2	1058.0	1067.6	1074.1	1083.7	1090.0	1099.7	1102.8	1109.3	1112.5
52.5°	807.9	824.0	824.0	830.3	839.9	849.6	846.4	849.6	852.7	852.7	862.4
55°	631.6	631.6	641.2	641.2	647.7	644.4	647.7	647.7	647.7	647.7	650.8
57.5°	471.2	474.5	484.2	477.7	474.5	480.9	474.5	480.9	477.7	484.2	474.5
60°	362.2	362.2	365.5	365.5	368.7	368.7	368.7	365.5	365.5	362.2	362.2
62.5°	272.5	275.7	279.0	275.7	275.7	275.7	272.5	272.5	269.3	266.0	266.0
65°	182.8	179.6	185.9	179.6	182.8	182.8	179.6	182.8	173.1	176.3	173.1
67.5°	131.4	128.3	125.1	128.3	125.1	121.8	121.8	125.1	128.3	118.6	118.6
70°	86.6	89.7	86.6	89.7	93.0	93.0	89.7	86.6	89.7	83.4	86.6
72.5°	54.5	54.5	54.5	54.5	54.5	57.7	57.7	57.7	51.3	51.3	48.0
75°	25.6	35.2	28.9	25.6	35.2	35.2	32.1	32.1	28.9	28.9	28.9
77.5°	25.6	19.3	19.3	19.3	19.3	19.3	19.3	19.3	16.0	19.3	16.0
80°	12.8	12.8	12.8	9.6	12.8	12.8	16.0	12.8	12.8	9.6	16.0
82.5°	6.5	6.5	6.5	0.0	3.2	6.5	6.5	3.2	6.5	6.5	3.2
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: P248944

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6639.7	6636.6	6639.7	6642.9	6639.7	6636.6	6639.7	6642.9	6630.1	6626.9	6633.3
5°	6780.8	6780.8	6787.1	6790.4	6787.1	6780.8	6780.8	6768.0	6758.4	6748.7	6745.6
7.5°	6902.6	6909.1	6915.4	6918.6	6915.4	6909.1	6902.6	6883.3	6864.1	6848.1	6835.3
10°	6976.4	6986.0	6998.8	7005.1	6998.8	6986.0	6976.4	6953.9	6928.2	6902.6	6883.3
12.5°	7008.4	7018.1	7034.0	7030.9	7034.0	7018.1	7008.4	6976.4	6947.5	6912.2	6883.3
15°	6986.0	6998.8	7014.8	7021.2	7014.8	6998.8	6986.0	6953.9	6928.2	6889.8	6860.9
17.5°	6915.4	6934.7	6944.3	6953.9	6944.3	6934.7	6915.4	6889.8	6854.6	6822.5	6793.6
20°	6819.2	6832.1	6844.9	6848.1	6844.9	6832.1	6819.2	6790.4	6735.9	6729.5	6707.0
22.5°	6681.4	6691.1	6719.8	6710.2	6719.8	6691.1	6681.4	6655.7	6636.6	6601.2	6578.8
25°	6482.6	6492.2	6495.5	6498.7	6495.5	6492.2	6482.6	6460.1	6441.0	6415.3	6402.5
27.5°	6139.6	6139.6	6145.9	6149.2	6145.9	6139.6	6139.6	6123.5	6110.7	6097.9	6085.1
30°	5620.2	5620.2	5620.2	5636.3	5620.2	5620.2	5620.2	5617.0	5617.0	5620.2	5620.2
32.5°	5020.7	5014.2	5007.9	5014.2	5007.9	5014.2	5020.7	5023.8	5020.7	5030.3	5046.3
35°	4340.9	4337.8	4347.4	4334.6	4347.4	4337.8	4340.9	4340.9	4353.9	4366.7	4369.8
37.5°	3690.1	3683.8	3696.6	3683.8	3696.6	3683.8	3690.1	3686.9	3683.8	3690.1	3680.6
40°	3071.4	3077.8	3077.8	3103.5	3077.8	3077.8	3071.4	3065.0	3042.5	3029.7	3016.9
42.5°	2478.3	2497.5	2491.1	2510.3	2491.1	2497.5	2478.3	2465.5	2439.7	2417.3	2398.2
45°	1917.2	1930.1	1930.1	1936.4	1930.1	1930.1	1917.2	1904.4	1881.9	1862.7	1849.9
47.5°	1471.5	1471.5	1471.5	1474.8	1471.5	1471.5	1471.5	1449.1	1442.8	1430.0	1413.9
50°	1118.9	1122.1	1125.4	1128.6	1125.4	1122.1	1118.9	1112.5	1109.3	1102.8	1099.7
52.5°	859.2	862.4	856.0	862.4	856.0	862.4	859.2	862.4	852.7	852.7	849.6
55°	650.8	647.7	650.8	654.0	650.8	647.7	650.8	650.8	647.7	647.7	647.7
57.5°	477.7	471.2	471.2	471.2	471.2	471.2	477.7	474.5	484.2	477.7	480.9
60°	355.9	359.1	359.1	362.2	359.1	359.1	355.9	362.2	362.2	365.5	365.5
62.5°	262.9	272.5	266.0	272.5	266.0	272.5	262.9	266.0	266.0	269.3	272.5
65°	170.0	170.0	170.0	173.1	170.0	170.0	170.0	173.1	176.3	173.1	182.8
67.5°	115.5	118.6	125.1	121.8	125.1	118.6	115.5	118.6	118.6	128.3	125.1
70°	93.0	83.4	83.4	93.0	83.4	83.4	93.0	86.6	83.4	89.7	86.6
72.5°	54.5	48.0	54.5	54.5	54.5	48.0	54.5	48.0	51.3	51.3	57.7
75°	28.9	25.6	22.4	32.1	22.4	25.6	28.9	28.9	28.9	28.9	32.1
77.5°	19.3	16.0	22.4	22.4	22.4	16.0	19.3	16.0	19.3	16.0	19.3
80°	9.6	12.8	9.6	16.0	9.6	12.8	9.6	16.0	9.6	12.8	12.8
82.5°	3.2	6.5	6.5	6.5	6.5	6.5	3.2	3.2	6.5	6.5	3.2
85°	0.0	6.5	3.2	3.2	3.2	6.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	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: P248944

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6633.3	6623.6	6626.9	6607.7	6607.7	6601.2	6604.5	6588.4	6582.1	6575.6	6585.2
5°	6729.5	6713.5	6700.6	6671.8	6655.7	6636.6	6626.9	6601.2	6578.8	6559.5	6556.3
7.5°	6806.4	6771.2	6748.7	6710.2	6681.4	6659.0	6626.9	6591.6	6562.8	6537.1	6517.9
10°	6838.5	6803.2	6768.0	6719.8	6687.8	6646.1	6614.0	6569.1	6530.7	6495.5	6472.9
12.5°	6841.6	6796.8	6764.7	6710.2	6668.5	6623.6	6588.4	6537.1	6492.2	6457.0	6421.7
15°	6812.9	6771.2	6732.6	6675.0	6633.3	6591.6	6550.0	6495.5	6453.8	6412.1	6386.5
17.5°	6748.7	6710.2	6665.3	6610.8	6572.4	6533.9	6489.0	6444.2	6396.0	6351.1	6319.1
20°	6665.3	6623.6	6585.2	6530.7	6498.7	6457.0	6415.3	6367.2	6328.7	6283.8	6248.6
22.5°	6540.4	6501.8	6466.6	6434.5	6383.2	6351.1	6322.4	6267.9	6229.3	6187.6	6149.2
25°	6360.8	6322.4	6293.5	6254.9	6232.5	6197.3	6168.4	6120.3	6085.1	6046.6	6014.5
27.5°	6065.8	6043.4	6027.3	6004.9	5985.7	5969.6	5953.7	5915.1	5889.5	5854.3	5822.2
30°	5623.4	5620.2	5610.6	5600.9	5613.7	5613.7	5613.7	5607.4	5585.0	5559.2	5536.8
32.5°	5055.9	5062.4	5075.2	5084.8	5110.4	5139.3	5164.9	5177.7	5177.7	5161.7	5152.1
35°	4379.5	4389.1	4408.4	4434.0	4466.0	4501.3	4558.9	4571.9	4581.4	4581.4	4568.6
37.5°	3677.3	3674.1	3693.4	3715.8	3735.1	3760.7	3802.4	3812.0	3828.0	3821.7	3808.7
40°	2994.4	2978.4	2971.9	2978.4	3000.8	2991.2	3000.8	2994.4	2994.4	2971.9	2971.9
42.5°	2362.8	2343.7	2330.7	2321.2	2321.2	2298.7	2282.7	2266.7	2257.1	2241.0	2237.8
45°	1821.1	1798.5	1782.6	1776.1	1766.6	1737.7	1718.4	1699.2	1676.7	1670.4	1673.6
47.5°	1413.9	1391.4	1385.0	1369.0	1352.9	1336.9	1324.1	1301.7	1298.4	1285.6	1298.4
50°	1090.0	1083.7	1074.1	1067.6	1058.0	1045.2	1032.3	1019.5	1013.1	1013.1	1016.3
52.5°	846.4	849.6	839.9	830.3	824.0	824.0	807.9	804.7	804.7	791.9	804.7
55°	647.7	644.4	647.7	641.2	641.2	631.6	631.6	621.9	621.9	612.3	618.8
57.5°	474.5	480.9	474.5	477.7	484.2	474.5	471.2	461.6	468.1	461.6	464.9
60°	368.7	368.7	368.7	365.5	365.5	362.2	362.2	359.1	359.1	352.6	359.1
62.5°	272.5	275.7	275.7	275.7	279.0	275.7	272.5	275.7	272.5	272.5	275.7
65°	179.6	182.8	182.8	179.6	185.9	179.6	182.8	185.9	189.1	185.9	189.1
67.5°	121.8	121.8	125.1	128.3	125.1	128.3	131.4	128.3	131.4	137.9	131.4
70°	89.7	93.0	93.0	89.7	86.6	89.7	86.6	96.2	96.2	96.2	102.5
72.5°	57.7	57.7	54.5	54.5	54.5	54.5	54.5	64.1	57.7	54.5	61.0
75°	32.1	35.2	35.2	25.6	28.9	35.2	25.6	28.9	38.5	32.1	38.5
77.5°	19.3	19.3	19.3	19.3	19.3	19.3	25.6	22.4	22.4	22.4	25.6
80°	16.0	12.8	12.8	9.6	12.8	12.8	12.8	19.3	16.0	16.0	19.3
82.5°	6.5	6.5	3.2	0.0	6.5	6.5	6.5	6.5	6.5	6.5	12.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	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: P248944

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6559.5	6559.5	6556.3	6550.0	6537.1	6537.1	6533.9	6524.3	6517.9	6514.6	6514.6
5°	6527.4	6514.6	6501.8	6466.6	6466.6	6460.1	6441.0	6428.1	6421.7	6405.6	6399.3
7.5°	6498.7	6460.1	6437.7	6415.3	6386.5	6373.6	6351.1	6341.5	6319.1	6303.1	6293.5
10°	6428.1	6402.5	6373.6	6338.3	6315.9	6290.3	6264.6	6245.4	6216.5	6200.4	6187.6
12.5°	6380.0	6341.5	6315.9	6277.4	6239.0	6216.5	6181.3	6158.9	6130.0	6097.9	6078.6
15°	6335.2	6293.5	6258.2	6216.5	6174.8	6149.2	6107.5	6081.9	6040.2	6008.2	5985.7
17.5°	6267.9	6232.5	6194.1	6142.8	6104.4	6072.3	6027.3	5995.4	5956.8	5915.1	5892.7
20°	6197.3	6155.6	6117.2	6065.8	6027.3	5988.9	5944.0	5908.8	5863.8	5825.4	5799.8
22.5°	6104.4	6056.2	6024.1	5972.8	5927.9	5886.4	5844.7	5803.0	5761.3	5729.2	5700.3
25°	5969.6	5918.3	5883.1	5841.4	5799.8	5767.7	5716.4	5690.8	5649.1	5620.2	5591.3
27.5°	5777.2	5738.8	5706.8	5665.1	5629.8	5604.2	5565.7	5540.1	5504.7	5479.1	5456.7
30°	5495.2	5463.2	5434.3	5392.6	5367.0	5344.5	5309.2	5286.7	5261.1	5232.2	5225.9
32.5°	5116.9	5091.1	5062.4	5033.5	5014.2	5001.4	4972.5	4959.7	4934.1	4918.0	4902.0
35°	4546.1	4523.7	4507.7	4494.9	4488.5	4491.6	4485.3	4498.1	4504.4	4501.3	4504.4
37.5°	3799.2	3786.3	3792.8	3802.4	3834.5	3876.2	3914.6	3972.2	4010.8	4049.3	4084.5
40°	2965.6	2975.2	3000.8	3058.5	3141.9	3235.0	3321.5	3430.5	3539.5	3616.5	3686.9
42.5°	2237.8	2266.7	2330.7	2414.1	2539.2	2677.0	2811.7	2971.9	3103.5	3231.7	3321.5
45°	1683.2	1721.6	1805.0	1920.5	2058.2	2218.6	2388.5	2568.0	2725.2	2856.6	2956.0
47.5°	1311.3	1346.6	1430.0	1551.8	1721.6	1888.4	2064.7	2250.6	2414.1	2542.4	2629.0
50°	1035.5	1080.4	1154.2	1282.4	1452.4	1628.7	1811.5	1994.1	2148.1	2257.1	2334.0
52.5°	814.3	856.0	926.5	1061.2	1234.4	1410.7	1580.5	1760.1	1894.7	2000.6	2051.9
55°	631.6	670.1	743.7	856.0	1019.5	1192.7	1362.5	1516.5	1641.5	1718.4	1766.6
57.5°	480.9	509.8	561.1	673.3	820.8	981.0	1125.4	1279.3	1375.5	1430.0	1461.9
60°	365.5	388.0	442.5	529.0	663.6	801.5	923.3	1038.8	1115.8	1160.6	1192.7
62.5°	275.7	301.4	339.8	413.6	516.1	628.4	730.9	817.5	881.6	910.5	933.0
65°	189.1	208.4	237.3	294.9	381.5	461.6	541.8	606.0	647.7	679.7	692.5
67.5°	141.1	153.9	170.0	214.8	275.7	339.8	394.3	439.2	484.2	497.0	519.4
70°	105.8	115.5	131.4	163.5	198.7	243.6	288.6	314.2	346.3	368.7	375.2
72.5°	67.3	70.5	86.6	105.8	134.6	163.5	192.4	214.8	234.1	246.9	253.2
75°	38.5	57.7	57.7	76.9	96.2	109.0	128.3	144.2	153.9	163.5	163.5
77.5°	25.6	35.2	38.5	48.0	57.7	73.8	89.7	99.4	109.0	112.2	112.2
80°	22.4	25.6	25.6	35.2	41.7	54.5	64.1	67.3	73.8	76.9	83.4
82.5°	9.6	12.8	16.0	25.6	28.9	28.9	38.5	41.7	48.0	51.3	51.3
85°	3.2	6.5	6.5	9.6	16.0	19.3	22.4	25.6	28.9	28.9	32.1
87.5°	3.2	3.2	0.0	3.2	6.5	6.5	12.8	12.8	12.8	19.3	19.3
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: P248944

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6508.3	6511.5	6498.7	6495.5	6489.0	6492.2	6498.7
5°	6389.7	6392.8	6380.0	6367.2	6367.2	6363.9	6367.2
7.5°	6277.4	6280.7	6261.4	6254.9	6242.1	6245.4	6245.4
10°	6165.2	6165.2	6136.4	6133.1	6123.5	6120.3	6120.3
12.5°	6056.2	6046.6	6024.1	6011.3	6017.8	5998.5	5998.5
15°	5960.0	5944.0	5915.1	5905.5	5889.5	5883.1	5883.1
17.5°	5860.6	5847.8	5822.2	5803.0	5783.7	5780.5	5783.7
20°	5764.4	5751.6	5719.6	5706.8	5690.8	5690.8	5684.3
22.5°	5668.2	5655.4	5626.7	5617.0	5594.6	5594.6	5597.8
25°	5568.9	5559.2	5527.2	5520.8	5517.7	5504.7	5511.2
27.5°	5434.3	5427.8	5402.2	5392.6	5379.8	5376.6	5382.9
30°	5187.3	5177.7	5158.6	5148.9	5126.5	5129.7	5136.0
32.5°	4879.6	4866.8	4841.1	4831.4	4812.3	4805.8	4809.0
35°	4494.9	4485.3	4462.9	4462.9	4443.6	4437.1	4443.6
37.5°	4103.8	4113.3	4103.8	4113.3	4103.8	4100.5	4103.8
40°	3735.1	3770.3	3776.7	3812.0	3799.2	3818.4	3815.2
42.5°	3382.4	3440.0	3462.6	3491.4	3485.0	3497.8	3507.5
45°	3026.4	3074.6	3097.0	3116.3	3119.5	3125.9	3129.1
47.5°	2689.8	2728.3	2731.5	2753.9	2750.8	2750.8	2760.4
50°	2375.7	2401.3	2407.7	2423.8	2411.0	2404.5	2407.7
52.5°	2084.0	2109.6	2103.1	2109.6	2093.6	2087.1	2090.3
55°	1785.7	1798.5	1798.5	1798.5	1779.4	1779.4	1779.4
57.5°	1481.2	1484.5	1478.0	1481.2	1478.0	1458.7	1455.6
60°	1202.3	1202.3	1199.0	1202.3	1192.7	1183.1	1183.1
62.5°	939.3	945.8	958.6	945.8	939.3	945.8	936.1
65°	702.2	715.0	711.7	718.1	715.0	715.0	708.5
67.5°	529.0	532.2	535.4	538.7	538.7	538.7	538.7
70°	388.0	397.6	394.3	394.3	394.3	394.3	413.6
72.5°	259.7	272.5	269.3	275.7	275.7	282.1	275.7
75°	176.3	189.1	182.8	192.4	189.1	182.8	198.7
77.5°	118.6	125.1	128.3	131.4	128.3	125.1	128.3
80°	83.4	89.7	86.6	89.7	89.7	89.7	93.0
82.5°	51.3	61.0	57.7	61.0	57.7	61.0	61.0
85°	35.2	38.5	32.1	38.5	35.2	35.2	41.7
87.5°	22.4	19.3	19.3	22.4	19.3	22.4	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)