

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: P248935

Luminaire Tested: **LD8B150D010 ER8B150935 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248935
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 ER8B150935 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: 10589.0 lumens
Efficiency: N/A
Efficacy: 66.8 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

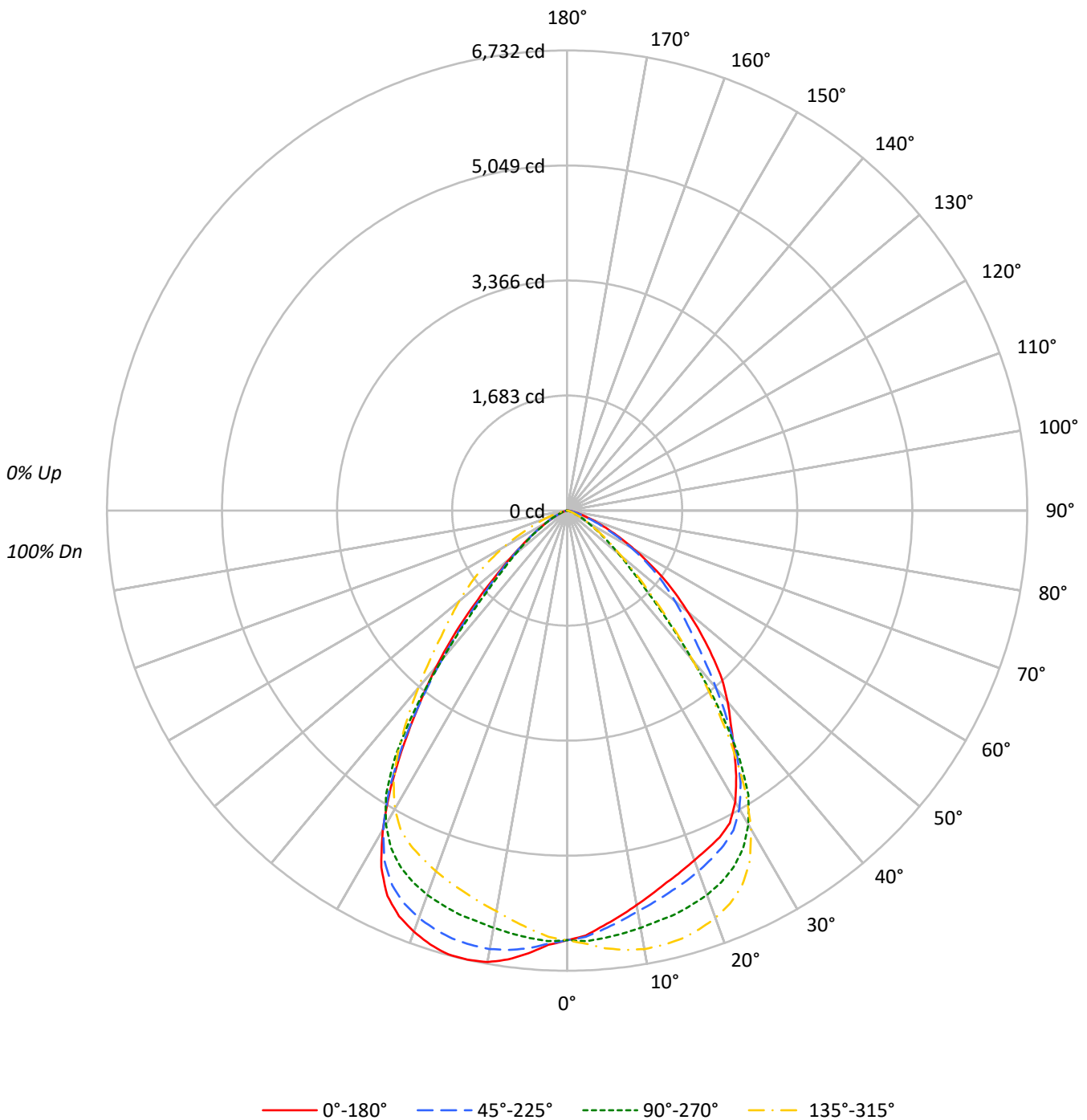
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	193849	193849	193849	193849
5°	188699	194302	201242	194302
10°	183479	194050	210003	194050
15°	179813	195200	214600	195200
20°	178591	196318	215154	196318
25°	179528	195924	211695	195924
30°	175089	188751	192144	188751
35°	160153	164656	156223	164656
40°	147036	114539	119607	114539
45°	130649	69875	80851	69875
50°	110582	46678	51835	46678
55°	91588	31848	33665	31848
60°	69857	21203	21388	21203
65°	49492	13214	12098	13214
70°	35703	8854	8033	8854
75°	22673	4396	3658	4396
80°	15822	3267	2717	3267
85°	14117	0	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	5.7
10°-20°	1732.7	16.4
20°-30°	2623.7	24.8
30°-40°	2629.5	24.8
40°-50°	1651.2	15.6
50°-60°	879.9	8.3
60°-70°	361.8	3.4
70°-80°	95.6	0.9
80°-90°	16.2	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°	4954.7	46.8
0°-40°	7584.2	71.6
0°-60°	10115.4	95.5
0°-90°	10589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10589.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6286	6286	6286	6286	6286	
5°	6096	6277	6501	6277	6096	575
15°	5632	6114	6722	6114	5632	1593
25°	5276	5758	6222	5758	5276	2420
35°	4254	4374	4150	4374	4254	2665
45°	2996	1602	1854	1602	2996	2304
55°	1704	592	626	592	1704	1519
65°	678	181	166	181	678	704
75°	190	37	31	37	190	216
85°	40	0	3	0	40	44
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°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6221.9	6215.7	6212.7	6218.9	6221.9	6234.2	6231.1	6237.2	6237.2	6240.4	6246.4
5°	6096.1	6092.9	6096.1	6096.1	6108.3	6120.6	6117.6	6126.8	6132.8	6148.3	6154.3
7.5°	5979.5	5979.5	5976.3	5988.6	5994.8	6013.2	6010.0	6025.5	6034.7	6050.0	6071.4
10°	5859.7	5859.7	5862.7	5871.9	5875.1	5902.6	5902.6	5924.1	5936.4	5951.8	5979.5
12.5°	5743.1	5743.1	5761.5	5755.3	5767.6	5789.1	5798.3	5819.8	5838.2	5868.9	5896.6
15°	5632.5	5632.5	5638.7	5654.0	5663.2	5690.9	5706.2	5730.8	5752.3	5783.0	5822.9
17.5°	5537.4	5534.4	5537.4	5555.8	5574.3	5598.8	5611.0	5641.7	5663.2	5703.2	5740.0
20°	5442.3	5448.4	5448.4	5463.7	5476.0	5506.7	5518.9	5552.8	5577.3	5614.1	5657.2
22.5°	5359.4	5356.3	5356.3	5377.8	5387.0	5414.6	5426.8	5457.5	5485.2	5515.9	5555.8
25°	5276.5	5270.3	5282.7	5285.7	5291.8	5322.5	5331.7	5353.2	5380.8	5408.5	5448.4
27.5°	5153.7	5147.6	5150.7	5162.9	5172.1	5196.6	5202.8	5224.3	5245.8	5270.3	5304.2
30°	4917.3	4911.2	4908.2	4929.7	4938.9	4957.2	4966.4	5003.3	5009.4	5037.1	5061.6
32.5°	4604.2	4601.2	4607.4	4625.7	4634.9	4659.6	4671.8	4693.3	4708.6	4724.0	4748.5
35°	4254.4	4248.2	4254.4	4272.8	4272.8	4294.3	4303.5	4312.6	4309.6	4312.6	4306.5
37.5°	3929.0	3925.9	3929.0	3938.1	3929.0	3938.1	3929.0	3910.6	3876.9	3840.0	3803.1
40°	3652.7	3655.8	3637.4	3649.7	3615.8	3609.8	3576.0	3529.9	3462.4	3388.8	3284.4
42.5°	3358.1	3348.9	3336.6	3342.7	3315.1	3293.5	3238.3	3180.1	3094.0	2971.3	2845.4
45°	2995.9	2992.8	2986.6	2983.6	2965.2	2943.7	2897.6	2830.1	2735.0	2609.1	2458.6
47.5°	2642.9	2633.6	2633.6	2636.7	2615.2	2612.2	2575.3	2517.0	2434.1	2311.3	2154.8
50°	2305.1	2302.1	2308.3	2320.6	2305.1	2299.1	2274.6	2234.6	2161.0	2056.6	1909.2
52.5°	2001.3	1998.3	2004.4	2019.7	2013.5	2019.7	1995.2	1964.5	1915.4	1814.0	1685.2
55°	1703.6	1703.6	1703.6	1721.9	1721.9	1721.9	1709.7	1691.4	1645.2	1571.6	1451.9
57.5°	1393.6	1396.6	1415.0	1418.1	1415.0	1421.2	1418.1	1399.6	1369.1	1316.9	1224.8
60°	1132.7	1132.7	1141.9	1151.1	1148.0	1151.1	1151.1	1141.9	1111.2	1068.2	994.6
62.5°	896.3	905.5	899.3	905.5	917.8	905.5	899.3	893.2	871.8	844.1	782.7
65°	678.3	684.5	684.5	687.6	681.4	684.5	672.3	663.1	650.8	620.1	580.2
67.5°	515.7	515.7	515.7	515.7	512.6	509.5	506.5	497.3	475.8	463.6	420.5
70°	396.0	377.5	377.5	377.5	377.5	380.7	371.5	359.2	353.0	331.5	300.8
72.5°	263.9	270.1	263.9	263.9	257.9	260.9	248.6	242.5	236.4	224.1	205.7
75°	190.3	175.0	181.1	184.2	175.0	181.1	168.8	156.5	156.5	147.3	138.1
77.5°	122.8	119.8	122.8	125.8	122.8	119.8	113.6	107.4	107.4	104.4	95.1
80°	89.1	85.9	85.9	85.9	82.9	85.9	79.8	79.8	73.7	70.6	64.4
82.5°	58.4	58.4	55.2	58.4	55.2	58.4	49.1	49.1	49.1	46.0	39.9
85°	39.9	33.7	33.7	36.9	30.7	36.9	33.7	30.7	27.7	27.7	24.5
87.5°	18.4	21.5	18.4	21.5	18.4	18.4	21.5	18.4	18.4	12.3	12.3
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°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6255.7	6258.7	6258.7	6271.1	6277.1	6280.2	6280.2	6304.8	6295.6	6301.8	6307.8
5°	6166.7	6185.0	6191.2	6191.2	6225.0	6237.2	6249.5	6277.1	6280.2	6298.6	6320.1
7.5°	6080.7	6102.1	6114.5	6142.1	6163.5	6185.0	6221.9	6240.4	6258.7	6283.3	6310.9
10°	5997.8	6022.4	6046.9	6068.4	6102.1	6129.8	6154.3	6197.3	6218.9	6252.6	6289.4
12.5°	5918.1	5951.8	5973.3	6010.0	6046.9	6071.4	6108.3	6148.3	6182.0	6215.7	6258.7
15°	5847.4	5887.4	5911.9	5951.8	5991.7	6025.5	6065.4	6114.5	6139.0	6179.0	6218.9
17.5°	5770.6	5813.7	5844.4	5881.2	5930.3	5967.1	6000.9	6050.0	6080.7	6123.6	6169.7
20°	5690.9	5733.9	5770.6	5807.5	5856.7	5893.4	5933.3	5982.5	6016.2	6059.2	6096.1
22.5°	5595.8	5635.7	5675.5	5718.4	5767.6	5798.3	5844.4	5887.4	5924.1	5964.1	6000.9
25°	5473.0	5522.1	5552.8	5592.6	5632.5	5666.3	5715.4	5758.4	5789.1	5826.0	5859.7
27.5°	5328.7	5365.6	5390.1	5423.8	5463.7	5494.4	5531.2	5574.3	5605.0	5638.7	5663.2
30°	5083.1	5116.9	5138.4	5162.9	5202.8	5230.5	5261.2	5301.0	5322.5	5347.1	5368.6
32.5°	4760.8	4788.4	4800.7	4819.1	4846.8	4874.3	4899.0	4932.7	4941.9	4957.2	4957.2
35°	4294.3	4300.4	4297.3	4303.5	4315.8	4331.1	4352.5	4374.0	4386.3	4386.3	4377.2
37.5°	3747.9	3711.1	3671.2	3640.5	3631.2	3625.1	3637.4	3646.5	3658.9	3665.0	3649.7
40°	3180.1	3097.2	3008.1	2928.3	2873.1	2848.5	2839.3	2845.4	2845.4	2866.9	2866.9
42.5°	2692.0	2563.0	2431.1	2311.3	2231.5	2170.2	2142.5	2142.5	2145.6	2161.0	2170.2
45°	2286.8	2124.1	1970.6	1838.7	1728.1	1648.3	1611.5	1602.3	1599.3	1605.3	1626.8
47.5°	1976.8	1808.0	1648.3	1485.7	1369.1	1289.2	1255.5	1243.1	1230.8	1243.1	1246.3
50°	1734.3	1559.3	1390.5	1227.8	1105.0	1034.4	991.4	973.0	969.9	969.9	976.1
52.5°	1513.2	1350.6	1181.8	1016.1	887.1	819.6	779.7	770.4	758.2	770.4	770.4
55°	1304.5	1141.9	976.1	819.6	712.1	641.6	604.7	592.4	586.2	595.5	595.5
57.5°	1077.5	939.2	785.9	644.6	537.2	488.1	460.4	445.1	442.0	448.1	442.0
60°	884.0	767.4	635.4	506.5	423.6	371.5	350.0	343.8	337.6	343.8	343.8
62.5°	699.8	601.6	494.1	396.0	325.3	288.6	263.9	263.9	260.9	260.9	263.9
65°	518.8	442.0	365.3	282.4	227.2	199.5	181.1	181.1	178.0	181.1	178.0
67.5°	377.5	325.3	263.9	205.7	162.7	147.3	135.1	125.8	132.0	125.8	122.8
70°	276.3	233.2	190.3	156.5	125.8	110.6	101.3	98.2	92.1	92.1	92.1
72.5°	184.2	156.5	128.9	101.3	82.9	67.5	64.4	58.4	52.2	55.2	61.4
75°	122.8	104.4	92.1	73.7	55.2	55.2	36.9	36.9	30.7	36.9	27.7
77.5°	85.9	70.6	55.2	46.0	36.9	33.7	24.5	24.5	21.5	21.5	21.5
80°	61.4	52.2	39.9	33.7	24.5	24.5	21.5	18.4	15.3	15.3	18.4
82.5°	36.9	27.7	27.7	24.5	15.3	12.3	9.2	12.3	6.2	6.2	6.2
85°	21.5	18.4	15.3	9.2	6.2	6.2	3.0	0.0	3.0	3.0	0.0
87.5°	12.3	6.2	6.2	3.0	0.0	3.0	3.0	0.0	0.0	0.0	6.2
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°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6323.2	6320.1	6326.3	6326.3	6344.7	6341.6	6350.8	6350.8	6344.7	6347.8	6360.0
5°	6344.7	6353.9	6372.3	6387.7	6415.2	6427.6	6442.9	6458.3	6461.3	6470.6	6479.8
7.5°	6344.7	6375.4	6396.9	6424.4	6461.3	6482.8	6516.6	6544.2	6556.5	6571.8	6590.2
10°	6332.3	6363.0	6403.0	6433.7	6479.8	6513.5	6547.3	6590.2	6608.7	6633.2	6657.8
12.5°	6307.8	6341.6	6384.5	6424.4	6476.6	6507.3	6550.3	6590.2	6617.9	6651.6	6679.3
15°	6271.1	6310.9	6350.8	6390.7	6445.9	6482.8	6522.7	6568.7	6596.4	6633.2	6657.8
17.5°	6212.7	6255.7	6292.5	6329.3	6381.5	6424.4	6461.3	6504.3	6532.0	6562.7	6596.4
20°	6142.1	6182.0	6221.9	6252.6	6304.8	6341.6	6381.5	6421.4	6442.9	6449.1	6501.3
22.5°	6053.1	6080.7	6111.4	6160.5	6191.2	6225.0	6261.8	6298.6	6320.1	6353.9	6372.3
25°	5905.7	5933.3	5967.1	5988.6	6025.5	6053.1	6089.9	6129.8	6142.1	6166.7	6185.0
27.5°	5700.1	5715.4	5730.8	5749.1	5770.6	5786.0	5807.5	5826.0	5838.2	5850.5	5862.7
30°	5374.7	5374.7	5374.7	5362.4	5371.6	5380.8	5383.9	5380.8	5380.8	5377.8	5377.8
32.5°	4945.0	4920.5	4892.8	4868.3	4859.0	4846.8	4840.6	4831.4	4816.1	4806.9	4809.9
35°	4364.8	4309.6	4275.8	4245.1	4220.6	4202.2	4193.0	4183.7	4180.7	4168.5	4156.1
37.5°	3640.5	3600.5	3576.0	3557.6	3536.1	3517.7	3520.7	3523.9	3532.9	3526.9	3529.9
40°	2873.1	2863.8	2873.1	2851.6	2845.4	2851.6	2866.9	2888.5	2900.7	2913.0	2934.5
42.5°	2185.5	2200.8	2222.4	2222.4	2231.5	2243.9	2262.2	2296.0	2314.4	2335.8	2360.5
45°	1645.2	1663.7	1691.4	1700.5	1706.6	1721.9	1743.5	1771.1	1783.3	1801.8	1823.3
47.5°	1267.7	1280.0	1295.3	1310.7	1326.0	1332.2	1353.6	1353.6	1369.1	1381.3	1387.4
50°	988.4	1000.6	1012.9	1022.1	1028.3	1037.5	1043.6	1052.8	1055.9	1062.0	1065.1
52.5°	773.5	788.9	788.9	795.0	804.2	813.4	810.4	813.4	816.4	816.4	825.7
55°	604.7	604.7	613.9	613.9	620.1	616.9	620.1	620.1	620.1	620.1	623.1
57.5°	451.2	454.3	463.6	457.4	454.3	460.4	454.3	460.4	457.4	463.6	454.3
60°	346.8	346.8	350.0	350.0	353.0	353.0	353.0	350.0	350.0	346.8	346.8
62.5°	260.9	263.9	267.1	263.9	263.9	263.9	260.9	260.9	257.9	254.7	254.7
65°	175.0	172.0	178.0	172.0	175.0	175.0	172.0	175.0	165.8	168.8	165.8
67.5°	125.8	122.8	119.8	122.8	119.8	116.6	116.6	119.8	122.8	113.6	113.6
70°	82.9	85.9	82.9	85.9	89.1	89.1	85.9	82.9	85.9	79.8	82.9
72.5°	52.2	52.2	52.2	52.2	52.2	55.2	55.2	55.2	49.1	49.1	46.0
75°	24.5	33.7	27.7	24.5	33.7	33.7	30.7	30.7	27.7	27.7	27.7
77.5°	24.5	18.4	18.4	18.4	18.4	18.4	18.4	18.4	15.3	18.4	15.3
80°	12.3	12.3	12.3	9.2	12.3	12.3	15.3	12.3	12.3	9.2	15.3
82.5°	6.2	6.2	6.2	0.0	3.0	6.2	6.2	3.0	6.2	6.2	3.0
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: P248935

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6357.0	6353.9	6357.0	6360.0	6357.0	6353.9	6357.0	6360.0	6347.8	6344.7	6350.8
5°	6492.0	6492.0	6498.1	6501.3	6498.1	6492.0	6492.0	6479.8	6470.6	6461.3	6458.3
7.5°	6608.7	6614.8	6620.9	6623.9	6620.9	6614.8	6608.7	6590.2	6571.8	6556.5	6544.2
10°	6679.3	6688.5	6700.8	6706.8	6700.8	6688.5	6679.3	6657.8	6633.2	6608.7	6590.2
12.5°	6710.0	6719.2	6734.5	6731.5	6734.5	6719.2	6710.0	6679.3	6651.6	6617.9	6590.2
15°	6688.5	6700.8	6716.0	6722.2	6716.0	6700.8	6688.5	6657.8	6633.2	6596.4	6568.7
17.5°	6620.9	6639.4	6648.6	6657.8	6648.6	6639.4	6620.9	6596.4	6562.7	6532.0	6504.3
20°	6528.8	6541.2	6553.4	6556.5	6553.4	6541.2	6528.8	6501.3	6449.1	6442.9	6421.4
22.5°	6396.9	6406.1	6433.7	6424.4	6433.7	6406.1	6396.9	6372.3	6353.9	6320.1	6298.6
25°	6206.5	6215.7	6218.9	6221.9	6218.9	6215.7	6206.5	6185.0	6166.7	6142.1	6129.8
27.5°	5878.1	5878.1	5884.2	5887.4	5884.2	5878.1	5878.1	5862.7	5850.5	5838.2	5826.0
30°	5380.8	5380.8	5380.8	5396.3	5380.8	5380.8	5380.8	5377.8	5377.8	5380.8	5380.8
32.5°	4806.9	4800.7	4794.6	4800.7	4794.6	4800.7	4806.9	4809.9	4806.9	4816.1	4831.4
35°	4156.1	4153.0	4162.3	4150.0	4162.3	4153.0	4156.1	4156.1	4168.5	4180.7	4183.7
37.5°	3532.9	3526.9	3539.1	3526.9	3539.1	3526.9	3532.9	3529.9	3526.9	3532.9	3523.9
40°	2940.6	2946.7	2946.7	2971.3	2946.7	2946.7	2940.6	2934.5	2913.0	2900.7	2888.5
42.5°	2372.7	2391.2	2385.0	2403.4	2385.0	2391.2	2372.7	2360.5	2335.8	2314.4	2296.0
45°	1835.5	1847.9	1847.9	1854.0	1847.9	1847.9	1835.5	1823.3	1801.8	1783.3	1771.1
47.5°	1408.9	1408.9	1408.9	1412.0	1408.9	1408.9	1408.9	1387.4	1381.3	1369.1	1353.6
50°	1071.3	1074.3	1077.5	1080.5	1077.5	1074.3	1071.3	1065.1	1062.0	1055.9	1052.8
52.5°	822.6	825.7	819.6	825.7	819.6	825.7	822.6	825.7	816.4	816.4	813.4
55°	623.1	620.1	623.1	626.2	623.1	620.1	623.1	623.1	620.1	620.1	620.1
57.5°	457.4	451.2	451.2	451.2	451.2	451.2	457.4	454.3	463.6	457.4	460.4
60°	340.7	343.8	343.8	346.8	343.8	343.8	340.7	346.8	346.8	350.0	350.0
62.5°	251.7	260.9	254.7	260.9	254.7	260.9	251.7	254.7	254.7	257.9	260.9
65°	162.7	162.7	162.7	165.8	162.7	162.7	162.7	165.8	168.8	165.8	175.0
67.5°	110.6	113.6	119.8	116.6	119.8	113.6	110.6	113.6	113.6	122.8	119.8
70°	89.1	79.8	79.8	89.1	79.8	79.8	89.1	82.9	79.8	85.9	82.9
72.5°	52.2	46.0	52.2	52.2	52.2	46.0	52.2	46.0	49.1	49.1	55.2
75°	27.7	24.5	21.5	30.7	21.5	24.5	27.7	27.7	27.7	27.7	30.7
77.5°	18.4	15.3	21.5	21.5	21.5	15.3	18.4	15.3	18.4	15.3	18.4
80°	9.2	12.3	9.2	15.3	9.2	12.3	9.2	15.3	9.2	12.3	12.3
82.5°	3.0	6.2	6.2	6.2	6.2	6.2	3.0	3.0	6.2	6.2	3.0
85°	0.0	6.2	3.0	3.0	3.0	6.2	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.0	0.0	3.0	0.0	0.0	3.0	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: P248935

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6350.8	6341.6	6344.7	6326.3	6326.3	6320.1	6323.2	6307.8	6301.8	6295.6	6304.8
5°	6442.9	6427.6	6415.2	6387.7	6372.3	6353.9	6344.7	6320.1	6298.6	6280.2	6277.1
7.5°	6516.6	6482.8	6461.3	6424.4	6396.9	6375.4	6344.7	6310.9	6283.3	6258.7	6240.4
10°	6547.3	6513.5	6479.8	6433.7	6403.0	6363.0	6332.3	6289.4	6252.6	6218.9	6197.3
12.5°	6550.3	6507.3	6476.6	6424.4	6384.5	6341.6	6307.8	6258.7	6215.7	6182.0	6148.3
15°	6522.7	6482.8	6445.9	6390.7	6350.8	6310.9	6271.1	6218.9	6179.0	6139.0	6114.5
17.5°	6461.3	6424.4	6381.5	6329.3	6292.5	6255.7	6212.7	6169.7	6123.6	6080.7	6050.0
20°	6381.5	6341.6	6304.8	6252.6	6221.9	6182.0	6142.1	6096.1	6059.2	6016.2	5982.5
22.5°	6261.8	6225.0	6191.2	6160.5	6111.4	6080.7	6053.1	6000.9	5964.1	5924.1	5887.4
25°	6089.9	6053.1	6025.5	5988.6	5967.1	5933.3	5905.7	5859.7	5826.0	5789.1	5758.4
27.5°	5807.5	5786.0	5770.6	5749.1	5730.8	5715.4	5700.1	5663.2	5638.7	5605.0	5574.3
30°	5383.9	5380.8	5371.6	5362.4	5374.7	5374.7	5374.7	5368.6	5347.1	5322.5	5301.0
32.5°	4840.6	4846.8	4859.0	4868.3	4892.8	4920.5	4945.0	4957.2	4957.2	4941.9	4932.7
35°	4193.0	4202.2	4220.6	4245.1	4275.8	4309.6	4364.8	4377.2	4386.3	4386.3	4374.0
37.5°	3520.7	3517.7	3536.1	3557.6	3576.0	3600.5	3640.5	3649.7	3665.0	3658.9	3646.5
40°	2866.9	2851.6	2845.4	2851.6	2873.1	2863.8	2873.1	2866.9	2866.9	2845.4	2845.4
42.5°	2262.2	2243.9	2231.5	2222.4	2222.4	2200.8	2185.5	2170.2	2161.0	2145.6	2142.5
45°	1743.5	1721.9	1706.6	1700.5	1691.4	1663.7	1645.2	1626.8	1605.3	1599.3	1602.3
47.5°	1353.6	1332.2	1326.0	1310.7	1295.3	1280.0	1267.7	1246.3	1243.1	1230.8	1243.1
50°	1043.6	1037.5	1028.3	1022.1	1012.9	1000.6	988.4	976.1	969.9	969.9	973.0
52.5°	810.4	813.4	804.2	795.0	788.9	788.9	773.5	770.4	770.4	758.2	770.4
55°	620.1	616.9	620.1	613.9	613.9	604.7	604.7	595.5	595.5	586.2	592.4
57.5°	454.3	460.4	454.3	457.4	463.6	454.3	451.2	442.0	448.1	442.0	445.1
60°	353.0	353.0	353.0	350.0	350.0	346.8	346.8	343.8	343.8	337.6	343.8
62.5°	260.9	263.9	263.9	263.9	267.1	263.9	260.9	263.9	260.9	260.9	263.9
65°	172.0	175.0	175.0	172.0	178.0	172.0	175.0	178.0	181.1	178.0	181.1
67.5°	116.6	116.6	119.8	122.8	119.8	122.8	125.8	122.8	125.8	132.0	125.8
70°	85.9	89.1	89.1	85.9	82.9	85.9	82.9	92.1	92.1	92.1	98.2
72.5°	55.2	55.2	52.2	52.2	52.2	52.2	52.2	61.4	55.2	52.2	58.4
75°	30.7	33.7	33.7	24.5	27.7	33.7	24.5	27.7	36.9	30.7	36.9
77.5°	18.4	18.4	18.4	18.4	18.4	18.4	24.5	21.5	21.5	21.5	24.5
80°	15.3	12.3	12.3	9.2	12.3	12.3	12.3	18.4	15.3	15.3	18.4
82.5°	6.2	6.2	3.0	0.0	6.2	6.2	6.2	6.2	6.2	6.2	12.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	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: P248935

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6280.2	6280.2	6277.1	6271.1	6258.7	6258.7	6255.7	6246.4	6240.4	6237.2	6237.2
5°	6249.5	6237.2	6225.0	6191.2	6191.2	6185.0	6166.7	6154.3	6148.3	6132.8	6126.8
7.5°	6221.9	6185.0	6163.5	6142.1	6114.5	6102.1	6080.7	6071.4	6050.0	6034.7	6025.5
10°	6154.3	6129.8	6102.1	6068.4	6046.9	6022.4	5997.8	5979.5	5951.8	5936.4	5924.1
12.5°	6108.3	6071.4	6046.9	6010.0	5973.3	5951.8	5918.1	5896.6	5868.9	5838.2	5819.8
15°	6065.4	6025.5	5991.7	5951.8	5911.9	5887.4	5847.4	5822.9	5783.0	5752.3	5730.8
17.5°	6000.9	5967.1	5930.3	5881.2	5844.4	5813.7	5770.6	5740.0	5703.2	5663.2	5641.7
20°	5933.3	5893.4	5856.7	5807.5	5770.6	5733.9	5690.9	5657.2	5614.1	5577.3	5552.8
22.5°	5844.4	5798.3	5767.6	5718.4	5675.5	5635.7	5595.8	5555.8	5515.9	5485.2	5457.5
25°	5715.4	5666.3	5632.5	5592.6	5552.8	5522.1	5473.0	5448.4	5408.5	5380.8	5353.2
27.5°	5531.2	5494.4	5463.7	5423.8	5390.1	5365.6	5328.7	5304.2	5270.3	5245.8	5224.3
30°	5261.2	5230.5	5202.8	5162.9	5138.4	5116.9	5083.1	5061.6	5037.1	5009.4	5003.3
32.5°	4899.0	4874.3	4846.8	4819.1	4800.7	4788.4	4760.8	4748.5	4724.0	4708.6	4693.3
35°	4352.5	4331.1	4315.8	4303.5	4297.3	4300.4	4294.3	4306.5	4312.6	4309.6	4312.6
37.5°	3637.4	3625.1	3631.2	3640.5	3671.2	3711.1	3747.9	3803.1	3840.0	3876.9	3910.6
40°	2839.3	2848.5	2873.1	2928.3	3008.1	3097.2	3180.1	3284.4	3388.8	3462.4	3529.9
42.5°	2142.5	2170.2	2231.5	2311.3	2431.1	2563.0	2692.0	2845.4	2971.3	3094.0	3180.1
45°	1611.5	1648.3	1728.1	1838.7	1970.6	2124.1	2286.8	2458.6	2609.1	2735.0	2830.1
47.5°	1255.5	1289.2	1369.1	1485.7	1648.3	1808.0	1976.8	2154.8	2311.3	2434.1	2517.0
50°	991.4	1034.4	1105.0	1227.8	1390.5	1559.3	1734.3	1909.2	2056.6	2161.0	2234.6
52.5°	779.7	819.6	887.1	1016.1	1181.8	1350.6	1513.2	1685.2	1814.0	1915.4	1964.5
55°	604.7	641.6	712.1	819.6	976.1	1141.9	1304.5	1451.9	1571.6	1645.2	1691.4
57.5°	460.4	488.1	537.2	644.6	785.9	939.2	1077.5	1224.8	1316.9	1369.1	1399.6
60°	350.0	371.5	423.6	506.5	635.4	767.4	884.0	994.6	1068.2	1111.2	1141.9
62.5°	263.9	288.6	325.3	396.0	494.1	601.6	699.8	782.7	844.1	871.8	893.2
65°	181.1	199.5	227.2	282.4	365.3	442.0	518.8	580.2	620.1	650.8	663.1
67.5°	135.1	147.3	162.7	205.7	263.9	325.3	377.5	420.5	463.6	475.8	497.3
70°	101.3	110.6	125.8	156.5	190.3	233.2	276.3	300.8	331.5	353.0	359.2
72.5°	64.4	67.5	82.9	101.3	128.9	156.5	184.2	205.7	224.1	236.4	242.5
75°	36.9	55.2	55.2	73.7	92.1	104.4	122.8	138.1	147.3	156.5	156.5
77.5°	24.5	33.7	36.9	46.0	55.2	70.6	85.9	95.1	104.4	107.4	107.4
80°	21.5	24.5	24.5	33.7	39.9	52.2	61.4	64.4	70.6	73.7	79.8
82.5°	9.2	12.3	15.3	24.5	27.7	27.7	36.9	39.9	46.0	49.1	49.1
85°	3.0	6.2	6.2	9.2	15.3	18.4	21.5	24.5	27.7	27.7	30.7
87.5°	3.0	3.0	0.0	3.0	6.2	6.2	12.3	12.3	12.3	18.4	18.4
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: P248935

CATALOG NUMBER: LD8B150D010 ER8B150935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4	6286.4
2.5°	6231.1	6234.2	6221.9	6218.9	6212.7	6215.7	6221.9
5°	6117.6	6120.6	6108.3	6096.1	6096.1	6092.9	6096.1
7.5°	6010.0	6013.2	5994.8	5988.6	5976.3	5979.5	5979.5
10°	5902.6	5902.6	5875.1	5871.9	5862.7	5859.7	5859.7
12.5°	5798.3	5789.1	5767.6	5755.3	5761.5	5743.1	5743.1
15°	5706.2	5690.9	5663.2	5654.0	5638.7	5632.5	5632.5
17.5°	5611.0	5598.8	5574.3	5555.8	5537.4	5534.4	5537.4
20°	5518.9	5506.7	5476.0	5463.7	5448.4	5448.4	5442.3
22.5°	5426.8	5414.6	5387.0	5377.8	5356.3	5356.3	5359.4
25°	5331.7	5322.5	5291.8	5285.7	5282.7	5270.3	5276.5
27.5°	5202.8	5196.6	5172.1	5162.9	5150.7	5147.6	5153.7
30°	4966.4	4957.2	4938.9	4929.7	4908.2	4911.2	4917.3
32.5°	4671.8	4659.6	4634.9	4625.7	4607.4	4601.2	4604.2
35°	4303.5	4294.3	4272.8	4272.8	4254.4	4248.2	4254.4
37.5°	3929.0	3938.1	3929.0	3938.1	3929.0	3925.9	3929.0
40°	3576.0	3609.8	3615.8	3649.7	3637.4	3655.8	3652.7
42.5°	3238.3	3293.5	3315.1	3342.7	3336.6	3348.9	3358.1
45°	2897.6	2943.7	2965.2	2983.6	2986.6	2992.8	2995.9
47.5°	2575.3	2612.2	2615.2	2636.7	2633.6	2633.6	2642.9
50°	2274.6	2299.1	2305.1	2320.6	2308.3	2302.1	2305.1
52.5°	1995.2	2019.7	2013.5	2019.7	2004.4	1998.3	2001.3
55°	1709.7	1721.9	1721.9	1721.9	1703.6	1703.6	1703.6
57.5°	1418.1	1421.2	1415.0	1418.1	1415.0	1396.6	1393.6
60°	1151.1	1151.1	1148.0	1151.1	1141.9	1132.7	1132.7
62.5°	899.3	905.5	917.8	905.5	899.3	905.5	896.3
65°	672.3	684.5	681.4	687.6	684.5	684.5	678.3
67.5°	506.5	509.5	512.6	515.7	515.7	515.7	515.7
70°	371.5	380.7	377.5	377.5	377.5	377.5	396.0
72.5°	248.6	260.9	257.9	263.9	263.9	270.1	263.9
75°	168.8	181.1	175.0	184.2	181.1	175.0	190.3
77.5°	113.6	119.8	122.8	125.8	122.8	119.8	122.8
80°	79.8	85.9	82.9	85.9	85.9	85.9	89.1
82.5°	49.1	58.4	55.2	58.4	55.2	58.4	58.4
85°	33.7	36.9	30.7	36.9	33.7	33.7	39.9
87.5°	21.5	18.4	18.4	21.5	18.4	21.5	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)