

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: P248638

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248638  
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 ER8B1509727 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11316.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

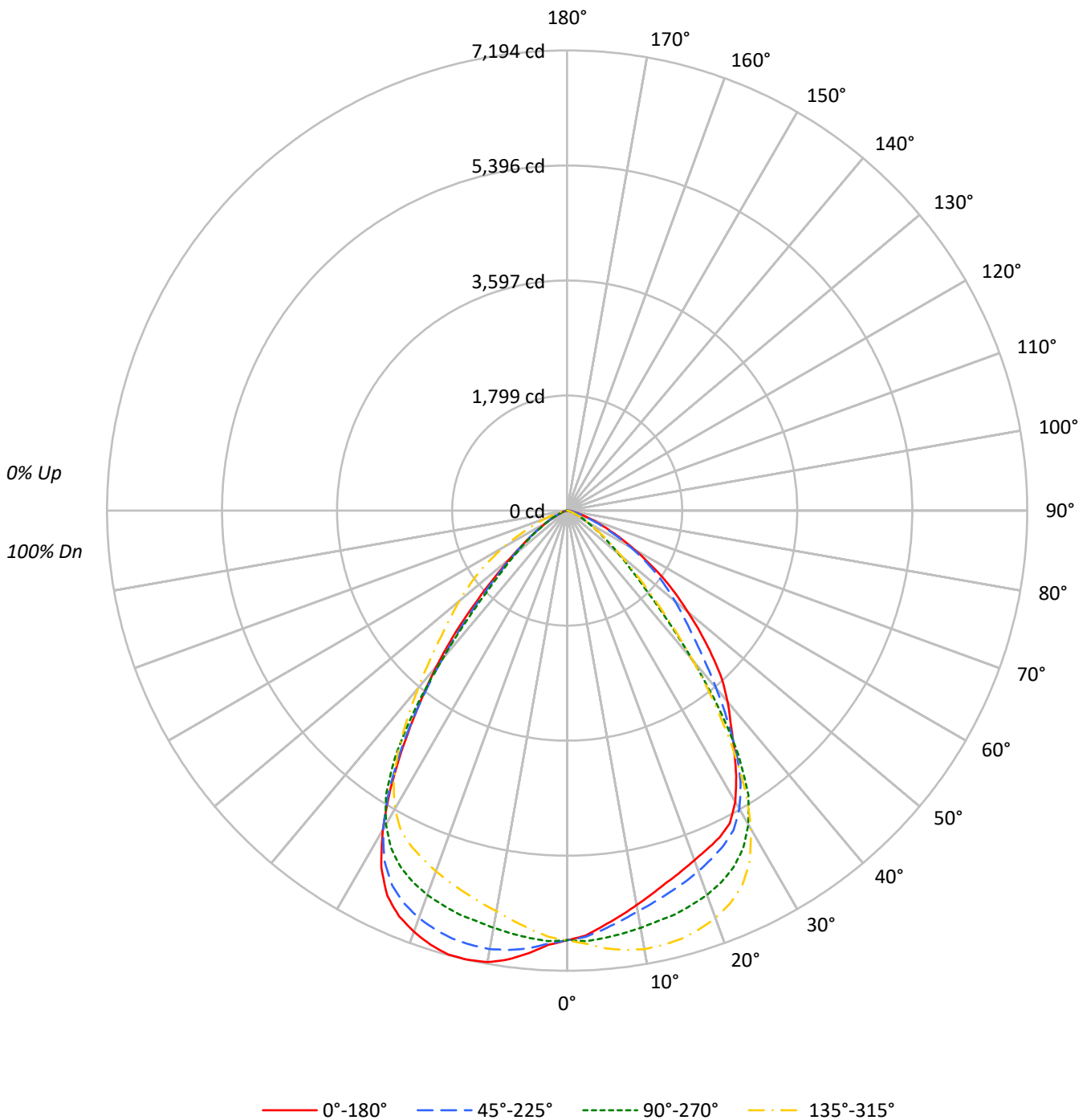
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.4	5.7
10°-20°	1851.6	16.4
20°-30°	2803.8	24.8
30°-40°	2810.1	24.8
40°-50°	1764.6	15.6
50°-60°	940.3	8.3
60°-70°	386.7	3.4
70°-80°	102.2	0.9
80°-90°	17.3	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°	5294.9	46.8
0°-40°	8104.9	71.6
0°-60°	10809.9	95.5
0°-90°	11316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6718	6718	6718	6718	6718	
5°	6515	6708	6948	6708	6515	614
15°	6019	6534	7184	6534	6019	1702
25°	5639	6154	6649	6154	5639	2586
35°	4546	4674	4435	4674	4546	2848
45°	3202	1712	1981	1712	3202	2462
55°	1821	633	669	633	1821	1623
65°	725	194	177	194	725	752
75°	203	39	33	39	203	230
85°	43	0	3	0	43	47
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°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6649.1	6642.5	6639.2	6645.9	6649.1	6662.2	6658.9	6665.4	6665.4	6668.8	6675.3
5°	6514.6	6511.2	6514.6	6514.6	6527.7	6540.8	6537.6	6547.4	6553.9	6570.4	6576.9
7.5°	6390.0	6390.0	6386.6	6399.7	6406.3	6426.0	6422.7	6439.1	6449.0	6465.3	6488.3
10°	6262.0	6262.0	6265.2	6275.1	6278.5	6307.9	6307.9	6330.9	6344.0	6360.4	6390.0
12.5°	6137.4	6137.4	6157.1	6150.5	6163.6	6186.5	6196.4	6219.3	6239.0	6271.9	6301.4
15°	6019.2	6019.2	6025.8	6042.2	6052.0	6081.6	6097.9	6124.3	6147.2	6180.0	6222.7
17.5°	5917.6	5914.3	5917.6	5937.3	5957.0	5983.2	5996.3	6029.1	6052.0	6094.7	6134.1
20°	5815.9	5822.5	5822.5	5838.8	5851.9	5884.8	5897.9	5934.0	5960.2	5999.5	6045.6
22.5°	5727.3	5724.1	5724.1	5747.0	5756.9	5786.3	5799.4	5832.2	5861.8	5894.6	5937.3
25°	5638.8	5632.1	5645.4	5648.6	5655.1	5687.9	5697.8	5720.7	5750.3	5779.8	5822.5
27.5°	5507.5	5501.0	5504.3	5517.4	5527.2	5553.4	5560.0	5583.0	5605.9	5632.1	5668.3
30°	5254.9	5248.4	5245.2	5268.1	5278.0	5297.6	5307.4	5346.8	5353.3	5382.9	5409.1
32.5°	4920.3	4917.1	4923.7	4943.3	4953.1	4979.5	4992.6	5015.5	5031.8	5048.3	5074.5
35°	4546.5	4539.8	4546.5	4566.2	4566.2	4589.1	4599.0	4608.7	4605.5	4608.7	4602.2
37.5°	4198.8	4195.4	4198.8	4208.5	4198.8	4208.5	4198.8	4179.1	4143.0	4103.6	4064.2
40°	3903.5	3906.7	3887.2	3900.3	3864.1	3857.6	3821.5	3772.3	3700.2	3621.5	3509.9
42.5°	3588.6	3578.8	3565.7	3572.2	3542.7	3519.6	3460.6	3398.4	3306.5	3175.4	3040.7
45°	3201.5	3198.3	3191.7	3188.4	3168.7	3145.8	3096.5	3024.4	2922.7	2788.3	2627.4
47.5°	2824.3	2814.4	2814.4	2817.7	2794.7	2791.5	2752.1	2689.8	2601.3	2470.0	2302.7
50°	2463.4	2460.2	2466.8	2479.9	2463.4	2456.9	2430.7	2388.1	2309.3	2197.8	2040.3
52.5°	2138.7	2135.4	2142.1	2158.4	2151.8	2158.4	2132.2	2099.4	2046.9	1938.6	1800.9
55°	1820.6	1820.6	1820.6	1840.2	1840.2	1840.2	1827.1	1807.5	1758.2	1679.5	1551.6
57.5°	1489.2	1492.5	1512.2	1515.4	1512.2	1518.8	1515.4	1495.7	1463.1	1407.3	1308.9
60°	1210.4	1210.4	1220.3	1230.1	1226.8	1230.1	1230.1	1220.3	1187.5	1141.6	1062.9
62.5°	957.8	967.7	961.1	967.7	980.8	967.7	961.1	954.6	931.6	902.1	836.4
65°	724.9	731.5	731.5	734.8	728.2	731.5	718.4	708.6	695.5	662.7	620.0
67.5°	551.1	551.1	551.1	551.1	547.8	544.5	541.3	531.4	508.5	495.4	449.3
70°	423.1	403.4	403.4	403.4	403.4	406.8	397.0	383.9	377.2	354.3	321.5
72.5°	282.1	288.7	282.1	282.1	275.6	278.8	265.7	259.1	252.6	239.5	219.8
75°	203.3	187.0	193.5	196.9	187.0	193.5	180.4	167.3	167.3	157.4	147.6
77.5°	131.2	128.0	131.2	134.5	131.2	128.0	121.4	114.8	114.8	111.5	101.7
80°	95.2	91.8	91.8	91.8	88.6	91.8	85.3	85.3	78.7	75.5	68.9
82.5°	62.4	62.4	59.0	62.4	59.0	62.4	52.5	52.5	52.5	49.1	42.7
85°	42.7	36.0	36.0	39.4	32.8	39.4	36.0	32.8	29.6	29.6	26.2
87.5°	19.7	23.0	19.7	23.0	19.7	19.7	23.0	19.7	19.7	13.1	13.1
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°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6685.1	6688.4	6688.4	6701.6	6708.1	6711.3	6711.3	6737.7	6727.8	6734.4	6740.9
5°	6590.1	6609.7	6616.3	6616.3	6652.3	6665.4	6678.5	6708.1	6711.3	6731.0	6754.0
7.5°	6498.1	6521.1	6534.3	6563.8	6586.7	6609.7	6649.1	6668.8	6688.4	6714.7	6744.1
10°	6409.6	6435.9	6462.1	6485.0	6521.1	6550.7	6576.9	6622.8	6645.9	6681.9	6721.2
12.5°	6324.4	6360.4	6383.4	6422.7	6462.1	6488.3	6527.7	6570.4	6606.4	6642.5	6688.4
15°	6248.9	6291.6	6317.8	6360.4	6403.1	6439.1	6481.8	6534.3	6560.5	6603.2	6645.9
17.5°	6166.8	6212.8	6245.7	6284.9	6337.5	6376.8	6412.9	6465.3	6498.1	6544.0	6593.3
20°	6081.6	6127.5	6166.8	6206.2	6258.8	6298.0	6340.7	6393.2	6429.3	6475.2	6514.6
22.5°	5979.9	6022.6	6065.1	6111.0	6163.6	6196.4	6245.7	6291.6	6330.9	6373.5	6412.9
25°	5848.7	5901.2	5934.0	5976.6	6019.2	6055.3	6107.8	6153.7	6186.5	6225.9	6262.0
27.5°	5694.5	5733.9	5760.1	5796.2	5838.8	5871.7	5910.9	5957.0	5989.8	6025.8	6052.0
30°	5432.0	5468.2	5491.2	5517.4	5560.0	5589.6	5622.4	5664.9	5687.9	5714.2	5737.2
32.5°	5087.6	5117.2	5130.3	5150.0	5179.6	5209.0	5235.3	5271.4	5281.2	5297.6	5297.6
35°	4589.1	4595.6	4592.4	4599.0	4612.1	4628.4	4651.4	4674.3	4687.4	4687.4	4677.7
37.5°	4005.2	3965.9	3923.2	3890.4	3880.5	3873.9	3887.2	3896.9	3910.1	3916.6	3900.3
40°	3398.4	3309.8	3214.6	3129.3	3070.3	3044.1	3034.3	3040.7	3040.7	3063.7	3063.7
42.5°	2876.8	2739.0	2598.0	2470.0	2384.7	2319.2	2289.6	2289.6	2292.9	2309.3	2319.2
45°	2443.8	2269.9	2105.9	1964.9	1846.8	1761.4	1722.2	1712.3	1709.1	1715.5	1738.5
47.5°	2112.5	1932.1	1761.4	1587.7	1463.1	1377.7	1341.7	1328.4	1315.3	1328.4	1331.8
50°	1853.4	1666.4	1486.0	1312.1	1180.9	1105.4	1059.5	1039.8	1036.5	1036.5	1043.1
52.5°	1617.1	1443.3	1263.0	1085.8	948.0	875.9	833.2	823.3	810.2	823.3	823.3
55°	1394.1	1220.3	1043.1	875.9	761.0	685.6	646.2	633.1	626.5	636.3	636.3
57.5°	1151.4	1003.7	839.8	688.9	574.1	521.6	492.0	475.7	472.3	478.9	472.3
60°	944.7	820.1	679.0	541.3	452.7	397.0	374.0	367.4	360.8	367.4	367.4
62.5°	747.9	643.0	528.1	423.1	347.7	308.4	282.1	282.1	278.8	278.8	282.1
65°	554.4	472.3	390.3	301.8	242.8	213.2	193.5	193.5	190.2	193.5	190.2
67.5°	403.4	347.7	282.1	219.8	173.9	157.4	144.3	134.5	141.1	134.5	131.2
70°	295.3	249.2	203.3	167.3	134.5	118.1	108.3	104.9	98.4	98.4	98.4
72.5°	196.9	167.3	137.7	108.3	88.6	72.1	68.9	62.4	55.8	59.0	65.6
75°	131.2	111.5	98.4	78.7	59.0	59.0	39.4	39.4	32.8	39.4	29.6
77.5°	91.8	75.5	59.0	49.1	39.4	36.0	26.2	26.2	23.0	23.0	23.0
80°	65.6	55.8	42.7	36.0	26.2	26.2	23.0	19.7	16.3	16.3	19.7
82.5°	39.4	29.6	29.6	26.2	16.3	13.1	9.9	13.1	6.6	6.6	6.6
85°	23.0	19.7	16.3	9.9	6.6	6.6	3.2	0.0	3.2	3.2	0.0
87.5°	13.1	6.6	6.6	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.6
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°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6757.4	6754.0	6760.6	6760.6	6780.3	6777.0	6786.8	6786.8	6780.3	6783.6	6796.7
5°	6780.3	6790.2	6809.8	6826.2	6855.7	6868.9	6885.2	6901.7	6905.0	6914.8	6924.7
7.5°	6780.3	6813.1	6836.1	6865.5	6905.0	6927.9	6964.0	6993.5	7006.6	7023.0	7042.7
10°	6767.1	6799.9	6842.6	6875.4	6924.7	6960.7	6996.8	7042.7	7062.4	7088.6	7114.9
12.5°	6740.9	6777.0	6822.9	6865.5	6921.3	6954.1	7000.0	7042.7	7072.2	7108.3	7137.9
15°	6701.6	6744.1	6786.8	6829.5	6888.5	6927.9	6970.6	7019.7	7049.3	7088.6	7114.9
17.5°	6639.2	6685.1	6724.6	6763.9	6819.6	6865.5	6905.0	6950.9	6980.4	7013.2	7049.3
20°	6563.8	6606.4	6649.1	6681.9	6737.7	6777.0	6819.6	6862.3	6885.2	6891.9	6947.6
22.5°	6468.7	6498.1	6531.0	6583.5	6616.3	6652.3	6691.8	6731.0	6754.0	6790.2	6809.8
25°	6311.1	6340.7	6376.8	6399.7	6439.1	6468.7	6508.0	6550.7	6563.8	6590.1	6609.7
27.5°	6091.5	6107.8	6124.3	6143.9	6166.8	6183.3	6206.2	6225.9	6239.0	6252.1	6265.2
30°	5743.7	5743.7	5743.7	5730.6	5740.4	5750.3	5753.5	5750.3	5750.3	5747.0	5747.0
32.5°	5284.5	5258.3	5228.7	5202.5	5192.7	5179.6	5172.9	5163.1	5146.7	5136.9	5140.1
35°	4664.5	4605.5	4569.4	4536.6	4510.4	4490.7	4480.8	4471.0	4467.7	4454.6	4441.4
37.5°	3890.4	3847.7	3821.5	3801.8	3778.9	3759.2	3762.4	3765.8	3775.5	3769.0	3772.3
40°	3070.3	3060.5	3070.3	3047.4	3040.7	3047.4	3063.7	3086.8	3099.9	3113.0	3135.9
42.5°	2335.5	2351.9	2375.0	2375.0	2384.7	2397.9	2417.5	2453.7	2473.3	2496.2	2522.5
45°	1758.2	1777.9	1807.5	1817.2	1823.8	1840.2	1863.2	1892.7	1905.8	1925.5	1948.4
47.5°	1354.8	1367.9	1384.2	1400.7	1417.0	1423.6	1446.6	1446.6	1463.1	1476.2	1482.6
50°	1056.2	1069.3	1082.4	1092.3	1098.9	1108.8	1115.2	1125.1	1128.3	1135.0	1138.2
52.5°	826.6	843.1	843.1	849.5	859.4	869.2	866.0	869.2	872.5	872.5	882.3
55°	646.2	646.2	656.1	656.1	662.7	659.3	662.7	662.7	662.7	662.7	665.9
57.5°	482.1	485.5	495.4	488.8	485.5	492.0	485.5	492.0	488.8	495.4	485.5
60°	370.6	370.6	374.0	374.0	377.2	377.2	377.2	374.0	374.0	370.6	370.6
62.5°	278.8	282.1	285.4	282.1	282.1	282.1	278.8	278.8	275.6	272.2	272.2
65°	187.0	183.8	190.2	183.8	187.0	187.0	183.8	187.0	177.1	180.4	177.1
67.5°	134.5	131.2	128.0	131.2	128.0	124.6	124.6	128.0	131.2	121.4	121.4
70°	88.6	91.8	88.6	91.8	95.2	95.2	91.8	88.6	91.8	85.3	88.6
72.5°	55.8	55.8	55.8	55.8	55.8	59.0	59.0	59.0	52.5	52.5	49.1
75°	26.2	36.0	29.6	26.2	36.0	36.0	32.8	32.8	29.6	29.6	29.6
77.5°	26.2	19.7	19.7	19.7	19.7	19.7	19.7	19.7	16.3	19.7	16.3
80°	13.1	13.1	13.1	9.9	13.1	13.1	16.3	13.1	13.1	9.9	16.3
82.5°	6.6	6.6	6.6	0.0	3.2	6.6	6.6	3.2	6.6	6.6	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: P248638

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6793.4	6790.2	6793.4	6796.7	6793.4	6790.2	6793.4	6796.7	6783.6	6780.3	6786.8
5°	6937.8	6937.8	6944.2	6947.6	6944.2	6937.8	6937.8	6924.7	6914.8	6905.0	6901.7
7.5°	7062.4	7069.0	7075.5	7078.7	7075.5	7069.0	7062.4	7042.7	7023.0	7006.6	6993.5
10°	7137.9	7147.7	7160.8	7167.3	7160.8	7147.7	7137.9	7114.9	7088.6	7062.4	7042.7
12.5°	7170.7	7180.5	7196.9	7193.6	7196.9	7180.5	7170.7	7137.9	7108.3	7072.2	7042.7
15°	7147.7	7160.8	7177.1	7183.8	7177.1	7160.8	7147.7	7114.9	7088.6	7049.3	7019.7
17.5°	7075.5	7095.2	7105.0	7114.9	7105.0	7095.2	7075.5	7049.3	7013.2	6980.4	6950.9
20°	6977.1	6990.3	7003.4	7006.6	7003.4	6990.3	6977.1	6947.6	6891.9	6885.2	6862.3
22.5°	6836.1	6845.9	6875.4	6865.5	6875.4	6845.9	6836.1	6809.8	6790.2	6754.0	6731.0
25°	6632.6	6642.5	6645.9	6649.1	6645.9	6642.5	6632.6	6609.7	6590.1	6563.8	6550.7
27.5°	6281.7	6281.7	6288.2	6291.6	6288.2	6281.7	6281.7	6265.2	6252.1	6239.0	6225.9
30°	5750.3	5750.3	5750.3	5766.7	5750.3	5750.3	5750.3	5747.0	5747.0	5750.3	5750.3
32.5°	5136.9	5130.3	5123.8	5130.3	5123.8	5130.3	5136.9	5140.1	5136.9	5146.7	5163.1
35°	4441.4	4438.2	4448.0	4434.9	4448.0	4438.2	4441.4	4441.4	4454.6	4467.7	4471.0
37.5°	3775.5	3769.0	3782.1	3769.0	3782.1	3769.0	3775.5	3772.3	3769.0	3775.5	3765.8
40°	3142.5	3149.0	3149.0	3175.4	3149.0	3149.0	3142.5	3135.9	3113.0	3099.9	3086.8
42.5°	2535.6	2555.3	2548.7	2568.4	2548.7	2555.3	2535.6	2522.5	2496.2	2473.3	2453.7
45°	1961.5	1974.8	1974.8	1981.3	1974.8	1974.8	1961.5	1948.4	1925.5	1905.8	1892.7
47.5°	1505.6	1505.6	1505.6	1509.0	1505.6	1505.6	1505.6	1482.6	1476.2	1463.1	1446.6
50°	1144.8	1148.1	1151.4	1154.7	1151.4	1148.1	1144.8	1138.2	1135.0	1128.3	1125.1
52.5°	879.1	882.3	875.9	882.3	875.9	882.3	879.1	882.3	872.5	872.5	869.2
55°	665.9	662.7	665.9	669.1	665.9	662.7	665.9	665.9	662.7	662.7	662.7
57.5°	488.8	482.1	482.1	482.1	482.1	482.1	488.8	485.5	495.4	488.8	492.0
60°	364.1	367.4	367.4	370.6	367.4	367.4	364.1	370.6	370.6	374.0	374.0
62.5°	269.0	278.8	272.2	278.8	272.2	278.8	269.0	272.2	272.2	275.6	278.8
65°	173.9	173.9	173.9	177.1	173.9	173.9	173.9	177.1	180.4	177.1	187.0
67.5°	118.1	121.4	128.0	124.6	128.0	121.4	118.1	121.4	121.4	131.2	128.0
70°	95.2	85.3	85.3	95.2	85.3	85.3	95.2	88.6	85.3	91.8	88.6
72.5°	55.8	49.1	55.8	55.8	55.8	49.1	55.8	49.1	52.5	52.5	59.0
75°	29.6	26.2	23.0	32.8	23.0	26.2	29.6	29.6	29.6	29.6	32.8
77.5°	19.7	16.3	23.0	23.0	23.0	16.3	19.7	16.3	19.7	16.3	19.7
80°	9.9	13.1	9.9	16.3	9.9	13.1	9.9	16.3	9.9	13.1	13.1
82.5°	3.2	6.6	6.6	6.6	6.6	6.6	3.2	3.2	6.6	6.6	3.2
85°	0.0	6.6	3.2	3.2	3.2	6.6	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: P248638

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6786.8	6777.0	6780.3	6760.6	6760.6	6754.0	6757.4	6740.9	6734.4	6727.8	6737.7
5°	6885.2	6868.9	6855.7	6826.2	6809.8	6790.2	6780.3	6754.0	6731.0	6711.3	6708.1
7.5°	6964.0	6927.9	6905.0	6865.5	6836.1	6813.1	6780.3	6744.1	6714.7	6688.4	6668.8
10°	6996.8	6960.7	6924.7	6875.4	6842.6	6799.9	6767.1	6721.2	6681.9	6645.9	6622.8
12.5°	7000.0	6954.1	6921.3	6865.5	6822.9	6777.0	6740.9	6688.4	6642.5	6606.4	6570.4
15°	6970.6	6927.9	6888.5	6829.5	6786.8	6744.1	6701.6	6645.9	6603.2	6560.5	6534.3
17.5°	6905.0	6865.5	6819.6	6763.9	6724.6	6685.1	6639.2	6593.3	6544.0	6498.1	6465.3
20°	6819.6	6777.0	6737.7	6681.9	6649.1	6606.4	6563.8	6514.6	6475.2	6429.3	6393.2
22.5°	6691.8	6652.3	6616.3	6583.5	6531.0	6498.1	6468.7	6412.9	6373.5	6330.9	6291.6
25°	6508.0	6468.7	6439.1	6399.7	6376.8	6340.7	6311.1	6262.0	6225.9	6186.5	6153.7
27.5°	6206.2	6183.3	6166.8	6143.9	6124.3	6107.8	6091.5	6052.0	6025.8	5989.8	5957.0
30°	5753.5	5750.3	5740.4	5730.6	5743.7	5743.7	5743.7	5737.2	5714.2	5687.9	5664.9
32.5°	5172.9	5179.6	5192.7	5202.5	5228.7	5258.3	5284.5	5297.6	5297.6	5281.2	5271.4
35°	4480.8	4490.7	4510.4	4536.6	4569.4	4605.5	4664.5	4677.7	4687.4	4687.4	4674.3
37.5°	3762.4	3759.2	3778.9	3801.8	3821.5	3847.7	3890.4	3900.3	3916.6	3910.1	3896.9
40°	3063.7	3047.4	3040.7	3047.4	3070.3	3060.5	3070.3	3063.7	3063.7	3040.7	3040.7
42.5°	2417.5	2397.9	2384.7	2375.0	2375.0	2351.9	2335.5	2319.2	2309.3	2292.9	2289.6
45°	1863.2	1840.2	1823.8	1817.2	1807.5	1777.9	1758.2	1738.5	1715.5	1709.1	1712.3
47.5°	1446.6	1423.6	1417.0	1400.7	1384.2	1367.9	1354.8	1331.8	1328.4	1315.3	1328.4
50°	1115.2	1108.8	1098.9	1092.3	1082.4	1069.3	1056.2	1043.1	1036.5	1036.5	1039.8
52.5°	866.0	869.2	859.4	849.5	843.1	843.1	826.6	823.3	823.3	810.2	823.3
55°	662.7	659.3	662.7	656.1	656.1	646.2	646.2	636.3	636.3	626.5	633.1
57.5°	485.5	492.0	485.5	488.8	495.4	485.5	482.1	472.3	478.9	472.3	475.7
60°	377.2	377.2	377.2	374.0	374.0	370.6	370.6	367.4	367.4	360.8	367.4
62.5°	278.8	282.1	282.1	282.1	285.4	282.1	278.8	282.1	278.8	278.8	282.1
65°	183.8	187.0	187.0	183.8	190.2	183.8	187.0	190.2	193.5	190.2	193.5
67.5°	124.6	124.6	128.0	131.2	128.0	131.2	134.5	131.2	134.5	141.1	134.5
70°	91.8	95.2	95.2	91.8	88.6	91.8	88.6	98.4	98.4	98.4	104.9
72.5°	59.0	59.0	55.8	55.8	55.8	55.8	55.8	65.6	59.0	55.8	62.4
75°	32.8	36.0	36.0	26.2	29.6	36.0	26.2	29.6	39.4	32.8	39.4
77.5°	19.7	19.7	19.7	19.7	19.7	19.7	26.2	23.0	23.0	23.0	26.2
80°	16.3	13.1	13.1	9.9	13.1	13.1	13.1	19.7	16.3	16.3	19.7
82.5°	6.6	6.6	3.2	0.0	6.6	6.6	6.6	6.6	6.6	6.6	13.1
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	6.6	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: P248638

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6711.3	6711.3	6708.1	6701.6	6688.4	6688.4	6685.1	6675.3	6668.8	6665.4	6665.4
5°	6678.5	6665.4	6652.3	6616.3	6616.3	6609.7	6590.1	6576.9	6570.4	6553.9	6547.4
7.5°	6649.1	6609.7	6586.7	6563.8	6534.3	6521.1	6498.1	6488.3	6465.3	6449.0	6439.1
10°	6576.9	6550.7	6521.1	6485.0	6462.1	6435.9	6409.6	6390.0	6360.4	6344.0	6330.9
12.5°	6527.7	6488.3	6462.1	6422.7	6383.4	6360.4	6324.4	6301.4	6271.9	6239.0	6219.3
15°	6481.8	6439.1	6403.1	6360.4	6317.8	6291.6	6248.9	6222.7	6180.0	6147.2	6124.3
17.5°	6412.9	6376.8	6337.5	6284.9	6245.7	6212.8	6166.8	6134.1	6094.7	6052.0	6029.1
20°	6340.7	6298.0	6258.8	6206.2	6166.8	6127.5	6081.6	6045.6	5999.5	5960.2	5934.0
22.5°	6245.7	6196.4	6163.6	6111.0	6065.1	6022.6	5979.9	5937.3	5894.6	5861.8	5832.2
25°	6107.8	6055.3	6019.2	5976.6	5934.0	5901.2	5848.7	5822.5	5779.8	5750.3	5720.7
27.5°	5910.9	5871.7	5838.8	5796.2	5760.1	5733.9	5694.5	5668.3	5632.1	5605.9	5583.0
30°	5622.4	5589.6	5560.0	5517.4	5491.2	5468.2	5432.0	5409.1	5382.9	5353.3	5346.8
32.5°	5235.3	5209.0	5179.6	5150.0	5130.3	5117.2	5087.6	5074.5	5048.3	5031.8	5015.5
35°	4651.4	4628.4	4612.1	4599.0	4592.4	4595.6	4589.1	4602.2	4608.7	4605.5	4608.7
37.5°	3887.2	3873.9	3880.5	3890.4	3923.2	3965.9	4005.2	4064.2	4103.6	4143.0	4179.1
40°	3034.3	3044.1	3070.3	3129.3	3214.6	3309.8	3398.4	3509.9	3621.5	3700.2	3772.3
42.5°	2289.6	2319.2	2384.7	2470.0	2598.0	2739.0	2876.8	3040.7	3175.4	3306.5	3398.4
45°	1722.2	1761.4	1846.8	1964.9	2105.9	2269.9	2443.8	2627.4	2788.3	2922.7	3024.4
47.5°	1341.7	1377.7	1463.1	1587.7	1761.4	1932.1	2112.5	2302.7	2470.0	2601.3	2689.8
50°	1059.5	1105.4	1180.9	1312.1	1486.0	1666.4	1853.4	2040.3	2197.8	2309.3	2388.1
52.5°	833.2	875.9	948.0	1085.8	1263.0	1443.3	1617.1	1800.9	1938.6	2046.9	2099.4
55°	646.2	685.6	761.0	875.9	1043.1	1220.3	1394.1	1551.6	1679.5	1758.2	1807.5
57.5°	492.0	521.6	574.1	688.9	839.8	1003.7	1151.4	1308.9	1407.3	1463.1	1495.7
60°	374.0	397.0	452.7	541.3	679.0	820.1	944.7	1062.9	1141.6	1187.5	1220.3
62.5°	282.1	308.4	347.7	423.1	528.1	643.0	747.9	836.4	902.1	931.6	954.6
65°	193.5	213.2	242.8	301.8	390.3	472.3	554.4	620.0	662.7	695.5	708.6
67.5°	144.3	157.4	173.9	219.8	282.1	347.7	403.4	449.3	495.4	508.5	531.4
70°	108.3	118.1	134.5	167.3	203.3	249.2	295.3	321.5	354.3	377.2	383.9
72.5°	68.9	72.1	88.6	108.3	137.7	167.3	196.9	219.8	239.5	252.6	259.1
75°	39.4	59.0	59.0	78.7	98.4	111.5	131.2	147.6	157.4	167.3	167.3
77.5°	26.2	36.0	39.4	49.1	59.0	75.5	91.8	101.7	111.5	114.8	114.8
80°	23.0	26.2	26.2	36.0	42.7	55.8	65.6	68.9	75.5	78.7	85.3
82.5°	9.9	13.1	16.3	26.2	29.6	29.6	39.4	42.7	49.1	52.5	52.5
85°	3.2	6.6	6.6	9.9	16.3	19.7	23.0	26.2	29.6	29.6	32.8
87.5°	3.2	3.2	0.0	3.2	6.6	6.6	13.1	13.1	13.1	19.7	19.7
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: P248638

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0	6718.0
2.5°	6658.9	6662.2	6649.1	6645.9	6639.2	6642.5	6649.1
5°	6537.6	6540.8	6527.7	6514.6	6514.6	6511.2	6514.6
7.5°	6422.7	6426.0	6406.3	6399.7	6386.6	6390.0	6390.0
10°	6307.9	6307.9	6278.5	6275.1	6265.2	6262.0	6262.0
12.5°	6196.4	6186.5	6163.6	6150.5	6157.1	6137.4	6137.4
15°	6097.9	6081.6	6052.0	6042.2	6025.8	6019.2	6019.2
17.5°	5996.3	5983.2	5957.0	5937.3	5917.6	5914.3	5917.6
20°	5897.9	5884.8	5851.9	5838.8	5822.5	5822.5	5815.9
22.5°	5799.4	5786.3	5756.9	5747.0	5724.1	5724.1	5727.3
25°	5697.8	5687.9	5655.1	5648.6	5645.4	5632.1	5638.8
27.5°	5560.0	5553.4	5527.2	5517.4	5504.3	5501.0	5507.5
30°	5307.4	5297.6	5278.0	5268.1	5245.2	5248.4	5254.9
32.5°	4992.6	4979.5	4953.1	4943.3	4923.7	4917.1	4920.3
35°	4599.0	4589.1	4566.2	4566.2	4546.5	4539.8	4546.5
37.5°	4198.8	4208.5	4198.8	4208.5	4198.8	4195.4	4198.8
40°	3821.5	3857.6	3864.1	3900.3	3887.2	3906.7	3903.5
42.5°	3460.6	3519.6	3542.7	3572.2	3565.7	3578.8	3588.6
45°	3096.5	3145.8	3168.7	3188.4	3191.7	3198.3	3201.5
47.5°	2752.1	2791.5	2794.7	2817.7	2814.4	2814.4	2824.3
50°	2430.7	2456.9	2463.4	2479.9	2466.8	2460.2	2463.4
52.5°	2132.2	2158.4	2151.8	2158.4	2142.1	2135.4	2138.7
55°	1827.1	1840.2	1840.2	1840.2	1820.6	1820.6	1820.6
57.5°	1515.4	1518.8	1512.2	1515.4	1512.2	1492.5	1489.2
60°	1230.1	1230.1	1226.8	1230.1	1220.3	1210.4	1210.4
62.5°	961.1	967.7	980.8	967.7	961.1	967.7	957.8
65°	718.4	731.5	728.2	734.8	731.5	731.5	724.9
67.5°	541.3	544.5	547.8	551.1	551.1	551.1	551.1
70°	397.0	406.8	403.4	403.4	403.4	403.4	423.1
72.5°	265.7	278.8	275.6	282.1	282.1	288.7	282.1
75°	180.4	193.5	187.0	196.9	193.5	187.0	203.3
77.5°	121.4	128.0	131.2	134.5	131.2	128.0	131.2
80°	85.3	91.8	88.6	91.8	91.8	91.8	95.2
82.5°	52.5	62.4	59.0	62.4	59.0	62.4	62.4
85°	36.0	39.4	32.8	39.4	36.0	36.0	42.7
87.5°	23.0	19.7	19.7	23.0	19.7	23.0	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)