

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: P248973

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248973
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: LD8B200D010 ER8B2009730 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12174.0 lumens
Efficiency: N/A
Efficacy: 54.5 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

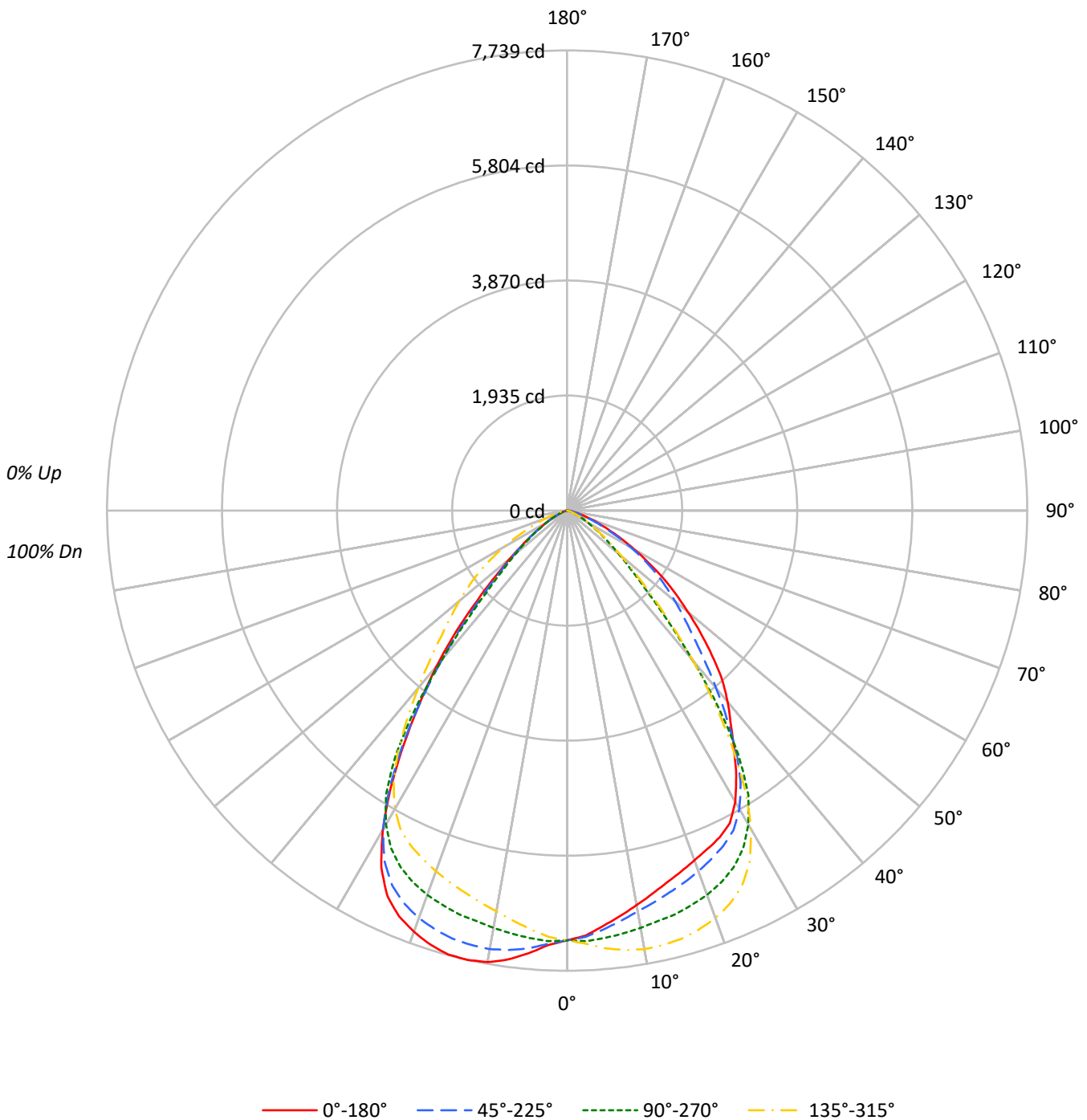
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	687.9	5.7
10°-20°	1992.0	16.4
20°-30°	3016.4	24.8
30°-40°	3023.2	24.8
40°-50°	1898.4	15.6
50°-60°	1011.6	8.3
60°-70°	416.0	3.4
70°-80°	109.9	0.9
80°-90°	18.6	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°	5696.3	46.8
0°-40°	8719.5	71.6
0°-60°	11629.5	95.5
0°-90°	12174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12174.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7227	7227	7227	7227	7227	
5°	7009	7217	7474	7217	7009	661
15°	6476	7030	7728	7030	6476	1831
25°	6066	6620	7153	6620	6066	2782
35°	4891	5029	4771	5029	4891	3064
45°	3444	1842	2132	1842	3444	2649
55°	1959	681	720	681	1959	1746
65°	780	208	191	208	780	809
75°	219	42	35	42	219	248
85°	46	0	4	0	46	50
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°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7153.2	7146.1	7142.6	7149.8	7153.2	7167.3	7163.8	7170.8	7170.8	7174.4	7181.4
5°	7008.6	7004.9	7008.6	7008.6	7022.7	7036.7	7033.3	7043.9	7050.8	7068.6	7075.5
7.5°	6874.5	6874.5	6870.9	6885.0	6892.1	6913.3	6909.6	6927.4	6938.0	6955.5	6980.2
10°	6736.8	6736.8	6740.3	6750.9	6754.5	6786.2	6786.2	6810.9	6825.0	6842.7	6874.5
12.5°	6602.7	6602.7	6623.9	6616.8	6630.9	6655.6	6666.2	6690.9	6712.1	6747.4	6779.2
15°	6475.6	6475.6	6482.7	6500.3	6510.9	6542.7	6560.3	6588.6	6613.3	6648.6	6694.5
17.5°	6366.2	6362.8	6366.2	6387.5	6408.7	6436.8	6450.9	6486.2	6510.9	6556.8	6599.2
20°	6256.9	6264.0	6264.0	6281.6	6295.7	6330.9	6345.0	6384.0	6412.1	6454.4	6503.9
22.5°	6161.6	6158.1	6158.1	6182.8	6193.4	6225.1	6239.1	6274.4	6306.3	6341.6	6387.5
25°	6066.3	6059.2	6073.4	6076.9	6083.9	6119.2	6129.8	6154.5	6186.3	6218.1	6264.0
27.5°	5925.1	5918.1	5921.6	5935.7	5946.3	5974.5	5981.6	6006.3	6031.0	6059.2	6098.1
30°	5653.3	5646.4	5642.9	5667.6	5678.2	5699.2	5709.8	5752.3	5759.2	5791.0	5819.2
32.5°	5293.4	5289.9	5297.0	5318.1	5328.7	5357.0	5371.1	5395.8	5413.4	5431.1	5459.3
35°	4891.2	4884.1	4891.2	4912.4	4912.4	4937.1	4947.7	4958.1	4954.7	4958.1	4951.2
37.5°	4517.1	4513.5	4517.1	4527.6	4517.1	4527.6	4517.1	4495.9	4457.2	4414.7	4372.3
40°	4199.5	4203.0	4181.9	4196.0	4157.1	4150.1	4111.3	4058.3	3980.7	3896.0	3776.1
42.5°	3860.7	3850.1	3836.0	3843.0	3811.4	3786.5	3723.0	3656.1	3557.2	3416.1	3271.3
45°	3444.3	3440.8	3433.7	3430.2	3409.0	3384.3	3331.3	3253.7	3144.3	2999.7	2826.7
47.5°	3038.4	3027.8	3027.8	3031.3	3006.6	3003.2	2960.7	2893.8	2798.5	2657.3	2477.3
50°	2650.2	2646.7	2653.8	2667.9	2650.2	2643.2	2615.0	2569.1	2484.4	2364.5	2195.0
52.5°	2300.8	2297.4	2304.5	2322.0	2314.9	2322.0	2293.9	2258.6	2202.1	2085.6	1937.4
55°	1958.6	1958.6	1958.6	1979.7	1979.7	1979.7	1965.6	1944.5	1891.5	1806.8	1669.3
57.5°	1602.2	1605.7	1626.9	1630.3	1626.9	1634.0	1630.3	1609.1	1574.0	1514.0	1408.1
60°	1302.2	1302.2	1312.8	1323.4	1319.8	1323.4	1323.4	1312.8	1277.5	1228.1	1143.4
62.5°	1030.4	1041.0	1033.9	1041.0	1055.1	1041.0	1033.9	1027.0	1002.3	970.5	899.9
65°	779.9	787.0	787.0	790.5	783.4	787.0	772.9	762.3	748.2	712.9	667.0
67.5°	592.9	592.9	592.9	592.9	589.3	585.8	582.3	571.7	547.0	532.9	483.4
70°	455.2	434.0	434.0	434.0	434.0	437.7	427.1	413.0	405.8	381.1	345.9
72.5°	303.4	310.6	303.4	303.4	296.5	300.0	285.9	278.7	271.8	257.7	236.5
75°	218.8	201.2	208.2	211.8	201.2	208.2	194.1	180.0	180.0	169.4	158.8
77.5°	141.2	137.7	141.2	144.7	141.2	137.7	130.6	123.5	123.5	120.0	109.4
80°	102.4	98.8	98.8	98.8	95.3	98.8	91.8	91.8	84.7	81.2	74.1
82.5°	67.1	67.1	63.5	67.1	63.5	67.1	56.5	56.5	56.5	52.9	45.9
85°	45.9	38.8	38.8	42.4	35.3	42.4	38.8	35.3	31.8	31.8	28.2
87.5°	21.2	24.7	21.2	24.7	21.2	21.2	24.7	21.2	21.2	14.1	14.1
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°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7192.0	7195.5	7195.5	7209.7	7216.7	7220.2	7220.2	7248.5	7237.9	7245.0	7252.0
5°	7089.8	7110.8	7117.9	7117.9	7156.7	7170.8	7184.9	7216.7	7220.2	7241.4	7266.1
7.5°	6990.8	7015.5	7029.8	7061.4	7086.1	7110.8	7153.2	7174.4	7195.5	7223.8	7255.5
10°	6895.6	6923.9	6952.1	6976.8	7015.5	7047.3	7075.5	7124.9	7149.8	7188.5	7230.8
12.5°	6803.9	6842.7	6867.4	6909.6	6952.1	6980.2	7022.7	7068.6	7107.3	7146.1	7195.5
15°	6722.7	6768.6	6796.8	6842.7	6888.6	6927.4	6973.3	7029.8	7058.0	7103.9	7149.8
17.5°	6634.4	6683.9	6719.2	6761.5	6818.0	6860.3	6899.2	6955.5	6990.8	7040.2	7093.2
20°	6542.7	6592.1	6634.4	6676.8	6733.3	6775.6	6821.5	6878.0	6916.8	6966.1	7008.6
22.5°	6433.4	6479.3	6525.0	6574.4	6630.9	6666.2	6719.2	6768.6	6810.9	6856.8	6899.2
25°	6292.2	6348.7	6384.0	6429.7	6475.6	6514.4	6570.9	6620.3	6655.6	6698.0	6736.8
27.5°	6126.3	6168.7	6196.9	6235.7	6281.6	6316.9	6359.1	6408.7	6444.0	6482.7	6510.9
30°	5843.9	5882.8	5907.5	5935.7	5981.6	6013.4	6048.7	6094.5	6119.2	6147.5	6172.2
32.5°	5473.4	5505.2	5519.3	5540.5	5572.3	5603.9	5632.3	5671.1	5681.7	5699.2	5699.2
35°	4937.1	4944.1	4940.6	4947.7	4961.8	4979.3	5004.0	5028.7	5042.8	5042.8	5032.4
37.5°	4308.9	4266.6	4220.7	4185.4	4174.8	4167.7	4181.9	4192.4	4206.6	4213.6	4196.0
40°	3656.1	3560.8	3458.4	3366.6	3303.1	3274.9	3264.3	3271.3	3271.3	3296.0	3296.0
42.5°	3095.0	2946.6	2795.0	2657.3	2565.5	2495.0	2463.2	2463.2	2466.7	2484.4	2495.0
45°	2629.1	2442.0	2265.5	2113.9	1986.8	1895.0	1852.7	1842.1	1838.6	1845.6	1870.3
47.5°	2272.7	2078.6	1895.0	1708.1	1574.0	1482.2	1443.4	1429.2	1415.1	1429.2	1432.8
50°	1993.9	1792.7	1598.7	1411.6	1270.4	1189.2	1139.8	1118.6	1115.1	1115.1	1122.2
52.5°	1739.7	1552.8	1358.7	1168.1	1019.8	942.3	896.4	885.8	871.7	885.8	885.8
55°	1499.8	1312.8	1122.2	942.3	818.7	737.6	695.2	681.1	674.0	684.6	684.6
57.5°	1238.7	1079.8	903.5	741.1	617.6	561.1	529.3	511.7	508.1	515.2	508.1
60°	1016.4	882.3	730.5	582.3	487.0	427.1	402.4	395.2	388.1	395.2	395.2
62.5°	804.6	691.7	568.1	455.2	374.0	331.8	303.4	303.4	300.0	300.0	303.4
65°	596.4	508.1	419.9	324.6	261.2	229.4	208.2	208.2	204.7	208.2	204.7
67.5°	434.0	374.0	303.4	236.5	187.1	169.4	155.3	144.7	151.8	144.7	141.2
70°	317.7	268.1	218.8	180.0	144.7	127.1	116.5	112.9	105.9	105.9	105.9
72.5°	211.8	180.0	148.2	116.5	95.3	77.6	74.1	67.1	60.0	63.5	70.6
75°	141.2	120.0	105.9	84.7	63.5	63.5	42.4	42.4	35.3	42.4	31.8
77.5°	98.8	81.2	63.5	52.9	42.4	38.8	28.2	28.2	24.7	24.7	24.7
80°	70.6	60.0	45.9	38.8	28.2	28.2	24.7	21.2	17.6	17.6	21.2
82.5°	42.4	31.8	31.8	28.2	17.6	14.1	10.6	14.1	7.1	7.1	7.1
85°	24.7	21.2	17.6	10.6	7.1	7.1	3.5	0.0	3.5	3.5	0.0
87.5°	14.1	7.1	7.1	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7269.7	7266.1	7273.2	7273.2	7294.4	7290.8	7301.4	7301.4	7294.4	7297.9	7312.0
5°	7294.4	7305.0	7326.1	7343.8	7375.5	7389.7	7407.3	7425.0	7428.5	7439.1	7449.7
7.5°	7294.4	7329.7	7354.4	7386.1	7428.5	7453.2	7492.0	7523.8	7537.9	7555.4	7576.7
10°	7280.2	7315.5	7361.4	7396.7	7449.7	7488.5	7527.3	7576.7	7597.9	7626.0	7654.4
12.5°	7252.0	7290.8	7340.2	7386.1	7446.1	7481.4	7530.8	7576.7	7608.5	7647.3	7679.1
15°	7209.7	7255.5	7301.4	7347.3	7410.8	7453.2	7499.1	7552.0	7583.8	7626.0	7654.4
17.5°	7142.6	7192.0	7234.4	7276.7	7336.7	7386.1	7428.5	7477.9	7509.7	7545.0	7583.8
20°	7061.4	7107.3	7153.2	7188.5	7248.5	7290.8	7336.7	7382.6	7407.3	7414.4	7474.4
22.5°	6959.2	6990.8	7026.1	7082.6	7117.9	7156.7	7199.1	7241.4	7266.1	7305.0	7326.1
25°	6789.7	6821.5	6860.3	6885.0	6927.4	6959.2	7001.4	7047.3	7061.4	7089.8	7110.8
27.5°	6553.3	6570.9	6588.6	6609.7	6634.4	6652.1	6676.8	6698.0	6712.1	6726.2	6740.3
30°	6179.2	6179.2	6179.2	6165.1	6175.7	6186.3	6189.8	6186.3	6186.3	6182.8	6182.8
32.5°	5685.1	5657.0	5625.2	5597.0	5586.4	5572.3	5565.2	5554.6	5537.0	5526.4	5529.9
35°	5018.1	4954.7	4915.9	4880.6	4852.4	4831.2	4820.6	4810.0	4806.5	4792.4	4778.2
37.5°	4185.4	4139.5	4111.3	4090.1	4065.4	4044.2	4047.7	4051.3	4061.8	4054.8	4058.3
40°	3303.1	3292.5	3303.1	3278.4	3271.3	3278.4	3296.0	3320.8	3334.9	3349.0	3373.7
42.5°	2512.6	2530.2	2555.0	2555.0	2565.5	2579.7	2600.8	2639.7	2660.8	2685.5	2713.8
45°	1891.5	1912.7	1944.5	1955.0	1962.1	1979.7	2004.5	2036.2	2050.3	2071.5	2096.2
47.5°	1457.5	1471.6	1489.2	1506.9	1524.5	1531.6	1556.3	1556.3	1574.0	1588.1	1595.0
50°	1136.3	1150.4	1164.5	1175.1	1182.2	1192.8	1199.8	1210.4	1213.9	1221.0	1224.5
52.5°	889.3	907.0	907.0	913.9	924.5	935.2	931.7	935.2	938.6	938.6	949.2
55°	695.2	695.2	705.8	705.8	712.9	709.3	712.9	712.9	712.9	712.9	716.4
57.5°	518.7	522.3	532.9	525.8	522.3	529.3	522.3	529.3	525.8	532.9	522.3
60°	398.7	398.7	402.4	402.4	405.8	405.8	405.8	402.4	402.4	398.7	398.7
62.5°	300.0	303.4	307.1	303.4	303.4	303.4	300.0	300.0	296.5	292.8	292.8
65°	201.2	197.7	204.7	197.7	201.2	201.2	197.7	201.2	190.6	194.1	190.6
67.5°	144.7	141.2	137.7	141.2	137.7	134.1	134.1	137.7	141.2	130.6	130.6
70°	95.3	98.8	95.3	98.8	102.4	102.4	98.8	95.3	98.8	91.8	95.3
72.5°	60.0	60.0	60.0	60.0	60.0	63.5	63.5	63.5	56.5	56.5	52.9
75°	28.2	38.8	31.8	28.2	38.8	38.8	35.3	35.3	31.8	31.8	31.8
77.5°	28.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	17.6	21.2	17.6
80°	14.1	14.1	14.1	10.6	14.1	14.1	17.6	14.1	14.1	10.6	17.6
82.5°	7.1	7.1	7.1	0.0	3.5	7.1	7.1	3.5	7.1	7.1	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248973

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7308.5	7305.0	7308.5	7312.0	7308.5	7305.0	7308.5	7312.0	7297.9	7294.4	7301.4
5°	7463.8	7463.8	7470.8	7474.4	7470.8	7463.8	7463.8	7449.7	7439.1	7428.5	7425.0
7.5°	7597.9	7605.0	7612.0	7615.4	7612.0	7605.0	7597.9	7576.7	7555.4	7537.9	7523.8
10°	7679.1	7689.7	7703.8	7710.7	7703.8	7689.7	7679.1	7654.4	7626.0	7597.9	7576.7
12.5°	7714.4	7725.0	7742.5	7739.1	7742.5	7725.0	7714.4	7679.1	7647.3	7608.5	7576.7
15°	7689.7	7703.8	7721.3	7728.4	7721.3	7703.8	7689.7	7654.4	7626.0	7583.8	7552.0
17.5°	7612.0	7633.2	7643.8	7654.4	7643.8	7633.2	7612.0	7583.8	7545.0	7509.7	7477.9
20°	7506.1	7520.3	7534.4	7537.9	7534.4	7520.3	7506.1	7474.4	7414.4	7407.3	7382.6
22.5°	7354.4	7365.0	7396.7	7386.1	7396.7	7365.0	7354.4	7326.1	7305.0	7266.1	7241.4
25°	7135.5	7146.1	7149.8	7153.2	7149.8	7146.1	7135.5	7110.8	7089.8	7061.4	7047.3
27.5°	6758.0	6758.0	6765.0	6768.6	6765.0	6758.0	6758.0	6740.3	6726.2	6712.1	6698.0
30°	6186.3	6186.3	6186.3	6204.0	6186.3	6186.3	6186.3	6182.8	6182.8	6186.3	6186.3
32.5°	5526.4	5519.3	5512.3	5519.3	5512.3	5519.3	5526.4	5529.9	5526.4	5537.0	5554.6
35°	4778.2	4774.7	4785.3	4771.2	4785.3	4774.7	4778.2	4778.2	4792.4	4806.5	4810.0
37.5°	4061.8	4054.8	4068.9	4054.8	4068.9	4054.8	4061.8	4058.3	4054.8	4061.8	4051.3
40°	3380.8	3387.8	3387.8	3416.1	3387.8	3387.8	3380.8	3373.7	3349.0	3334.9	3320.8
42.5°	2727.9	2749.1	2742.0	2763.2	2742.0	2749.1	2727.9	2713.8	2685.5	2660.8	2639.7
45°	2110.3	2124.5	2124.5	2131.5	2124.5	2124.5	2110.3	2096.2	2071.5	2050.3	2036.2
47.5°	1619.7	1619.7	1619.7	1623.4	1619.7	1619.7	1619.7	1595.0	1588.1	1574.0	1556.3
50°	1231.6	1235.1	1238.7	1242.2	1238.7	1235.1	1231.6	1224.5	1221.0	1213.9	1210.4
52.5°	945.8	949.2	942.3	949.2	942.3	949.2	945.8	949.2	938.6	938.6	935.2
55°	716.4	712.9	716.4	719.9	716.4	712.9	716.4	716.4	712.9	712.9	712.9
57.5°	525.8	518.7	518.7	518.7	518.7	518.7	525.8	522.3	532.9	525.8	529.3
60°	391.8	395.2	395.2	398.7	395.2	395.2	391.8	398.7	398.7	402.4	402.4
62.5°	289.3	300.0	292.8	300.0	292.8	300.0	289.3	292.8	292.8	296.5	300.0
65°	187.1	187.1	187.1	190.6	187.1	187.1	187.1	190.6	194.1	190.6	201.2
67.5°	127.1	130.6	137.7	134.1	137.7	130.6	127.1	130.6	130.6	141.2	137.7
70°	102.4	91.8	91.8	102.4	91.8	91.8	102.4	95.3	91.8	98.8	95.3
72.5°	60.0	52.9	60.0	60.0	60.0	52.9	60.0	52.9	56.5	56.5	63.5
75°	31.8	28.2	24.7	35.3	24.7	28.2	31.8	31.8	31.8	31.8	35.3
77.5°	21.2	17.6	24.7	24.7	24.7	17.6	21.2	17.6	21.2	17.6	21.2
80°	10.6	14.1	10.6	17.6	10.6	14.1	10.6	17.6	10.6	14.1	14.1
82.5°	3.5	7.1	7.1	7.1	7.1	7.1	3.5	3.5	7.1	7.1	3.5
85°	0.0	7.1	3.5	3.5	3.5	7.1	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248973

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7301.4	7290.8	7294.4	7273.2	7273.2	7266.1	7269.7	7252.0	7245.0	7237.9	7248.5
5°	7407.3	7389.7	7375.5	7343.8	7326.1	7305.0	7294.4	7266.1	7241.4	7220.2	7216.7
7.5°	7492.0	7453.2	7428.5	7386.1	7354.4	7329.7	7294.4	7255.5	7223.8	7195.5	7174.4
10°	7527.3	7488.5	7449.7	7396.7	7361.4	7315.5	7280.2	7230.8	7188.5	7149.8	7124.9
12.5°	7530.8	7481.4	7446.1	7386.1	7340.2	7290.8	7252.0	7195.5	7146.1	7107.3	7068.6
15°	7499.1	7453.2	7410.8	7347.3	7301.4	7255.5	7209.7	7149.8	7103.9	7058.0	7029.8
17.5°	7428.5	7386.1	7336.7	7276.7	7234.4	7192.0	7142.6	7093.2	7040.2	6990.8	6955.5
20°	7336.7	7290.8	7248.5	7188.5	7153.2	7107.3	7061.4	7008.6	6966.1	6916.8	6878.0
22.5°	7199.1	7156.7	7117.9	7082.6	7026.1	6990.8	6959.2	6899.2	6856.8	6810.9	6768.6
25°	7001.4	6959.2	6927.4	6885.0	6860.3	6821.5	6789.7	6736.8	6698.0	6655.6	6620.3
27.5°	6676.8	6652.1	6634.4	6609.7	6588.6	6570.9	6553.3	6510.9	6482.7	6444.0	6408.7
30°	6189.8	6186.3	6175.7	6165.1	6179.2	6179.2	6179.2	6172.2	6147.5	6119.2	6094.5
32.5°	5565.2	5572.3	5586.4	5597.0	5625.2	5657.0	5685.1	5699.2	5699.2	5681.7	5671.1
35°	4820.6	4831.2	4852.4	4880.6	4915.9	4954.7	5018.1	5032.4	5042.8	5042.8	5028.7
37.5°	4047.7	4044.2	4065.4	4090.1	4111.3	4139.5	4185.4	4196.0	4213.6	4206.6	4192.4
40°	3296.0	3278.4	3271.3	3278.4	3303.1	3292.5	3303.1	3296.0	3296.0	3271.3	3271.3
42.5°	2600.8	2579.7	2565.5	2555.0	2555.0	2530.2	2512.6	2495.0	2484.4	2466.7	2463.2
45°	2004.5	1979.7	1962.1	1955.0	1944.5	1912.7	1891.5	1870.3	1845.6	1838.6	1842.1
47.5°	1556.3	1531.6	1524.5	1506.9	1489.2	1471.6	1457.5	1432.8	1429.2	1415.1	1429.2
50°	1199.8	1192.8	1182.2	1175.1	1164.5	1150.4	1136.3	1122.2	1115.1	1115.1	1118.6
52.5°	931.7	935.2	924.5	913.9	907.0	907.0	889.3	885.8	885.8	871.7	885.8
55°	712.9	709.3	712.9	705.8	705.8	695.2	695.2	684.6	684.6	674.0	681.1
57.5°	522.3	529.3	522.3	525.8	532.9	522.3	518.7	508.1	515.2	508.1	511.7
60°	405.8	405.8	405.8	402.4	402.4	398.7	398.7	395.2	395.2	388.1	395.2
62.5°	300.0	303.4	303.4	303.4	307.1	303.4	300.0	303.4	300.0	300.0	303.4
65°	197.7	201.2	201.2	197.7	204.7	197.7	201.2	204.7	208.2	204.7	208.2
67.5°	134.1	134.1	137.7	141.2	137.7	141.2	144.7	141.2	144.7	151.8	144.7
70°	98.8	102.4	102.4	98.8	95.3	98.8	95.3	105.9	105.9	105.9	112.9
72.5°	63.5	63.5	60.0	60.0	60.0	60.0	60.0	70.6	63.5	60.0	67.1
75°	35.3	38.8	38.8	28.2	31.8	38.8	28.2	31.8	42.4	35.3	42.4
77.5°	21.2	21.2	21.2	21.2	21.2	21.2	28.2	24.7	24.7	24.7	28.2
80°	17.6	14.1	14.1	10.6	14.1	14.1	14.1	21.2	17.6	17.6	21.2
82.5°	7.1	7.1	3.5	0.0	7.1	7.1	7.1	7.1	7.1	7.1	14.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248973

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7220.2	7220.2	7216.7	7209.7	7195.5	7195.5	7192.0	7181.4	7174.4	7170.8	7170.8
5°	7184.9	7170.8	7156.7	7117.9	7117.9	7110.8	7089.8	7075.5	7068.6	7050.8	7043.9
7.5°	7153.2	7110.8	7086.1	7061.4	7029.8	7015.5	6990.8	6980.2	6955.5	6938.0	6927.4
10°	7075.5	7047.3	7015.5	6976.8	6952.1	6923.9	6895.6	6874.5	6842.7	6825.0	6810.9
12.5°	7022.7	6980.2	6952.1	6909.6	6867.4	6842.7	6803.9	6779.2	6747.4	6712.1	6690.9
15°	6973.3	6927.4	6888.6	6842.7	6796.8	6768.6	6722.7	6694.5	6648.6	6613.3	6588.6
17.5°	6899.2	6860.3	6818.0	6761.5	6719.2	6683.9	6634.4	6599.2	6556.8	6510.9	6486.2
20°	6821.5	6775.6	6733.3	6676.8	6634.4	6592.1	6542.7	6503.9	6454.4	6412.1	6384.0
22.5°	6719.2	6666.2	6630.9	6574.4	6525.0	6479.3	6433.4	6387.5	6341.6	6306.3	6274.4
25°	6570.9	6514.4	6475.6	6429.7	6384.0	6348.7	6292.2	6264.0	6218.1	6186.3	6154.5
27.5°	6359.1	6316.9	6281.6	6235.7	6196.9	6168.7	6126.3	6098.1	6059.2	6031.0	6006.3
30°	6048.7	6013.4	5981.6	5935.7	5907.5	5882.8	5843.9	5819.2	5791.0	5759.2	5752.3
32.5°	5632.3	5603.9	5572.3	5540.5	5519.3	5505.2	5473.4	5459.3	5431.1	5413.4	5395.8
35°	5004.0	4979.3	4961.8	4947.7	4940.6	4944.1	4937.1	4951.2	4958.1	4954.7	4958.1
37.5°	4181.9	4167.7	4174.8	4185.4	4220.7	4266.6	4308.9	4372.3	4414.7	4457.2	4495.9
40°	3264.3	3274.9	3303.1	3366.6	3458.4	3560.8	3656.1	3776.1	3896.0	3980.7	4058.3
42.5°	2463.2	2495.0	2565.5	2657.3	2795.0	2946.6	3095.0	3271.3	3416.1	3557.2	3656.1
45°	1852.7	1895.0	1986.8	2113.9	2265.5	2442.0	2629.1	2826.7	2999.7	3144.3	3253.7
47.5°	1443.4	1482.2	1574.0	1708.1	1895.0	2078.6	2272.7	2477.3	2657.3	2798.5	2893.8
50°	1139.8	1189.2	1270.4	1411.6	1598.7	1792.7	1993.9	2195.0	2364.5	2484.4	2569.1
52.5°	896.4	942.3	1019.8	1168.1	1358.7	1552.8	1739.7	1937.4	2085.6	2202.1	2258.6
55°	695.2	737.6	818.7	942.3	1122.2	1312.8	1499.8	1669.3	1806.8	1891.5	1944.5
57.5°	529.3	561.1	617.6	741.1	903.5	1079.8	1238.7	1408.1	1514.0	1574.0	1609.1
60°	402.4	427.1	487.0	582.3	730.5	882.3	1016.4	1143.4	1228.1	1277.5	1312.8
62.5°	303.4	331.8	374.0	455.2	568.1	691.7	804.6	899.9	970.5	1002.3	1027.0
65°	208.2	229.4	261.2	324.6	419.9	508.1	596.4	667.0	712.9	748.2	762.3
67.5°	155.3	169.4	187.1	236.5	303.4	374.0	434.0	483.4	532.9	547.0	571.7
70°	116.5	127.1	144.7	180.0	218.8	268.1	317.7	345.9	381.1	405.8	413.0
72.5°	74.1	77.6	95.3	116.5	148.2	180.0	211.8	236.5	257.7	271.8	278.7
75°	42.4	63.5	63.5	84.7	105.9	120.0	141.2	158.8	169.4	180.0	180.0
77.5°	28.2	38.8	42.4	52.9	63.5	81.2	98.8	109.4	120.0	123.5	123.5
80°	24.7	28.2	28.2	38.8	45.9	60.0	70.6	74.1	81.2	84.7	91.8
82.5°	10.6	14.1	17.6	28.2	31.8	31.8	42.4	45.9	52.9	56.5	56.5
85°	3.5	7.1	7.1	10.6	17.6	21.2	24.7	28.2	31.8	31.8	35.3
87.5°	3.5	3.5	0.0	3.5	7.1	7.1	14.1	14.1	14.1	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248973

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3	7227.3
2.5°	7163.8	7167.3	7153.2	7149.8	7142.6	7146.1	7153.2
5°	7033.3	7036.7	7022.7	7008.6	7008.6	7004.9	7008.6
7.5°	6909.6	6913.3	6892.1	6885.0	6870.9	6874.5	6874.5
10°	6786.2	6786.2	6754.5	6750.9	6740.3	6736.8	6736.8
12.5°	6666.2	6655.6	6630.9	6616.8	6623.9	6602.7	6602.7
15°	6560.3	6542.7	6510.9	6500.3	6482.7	6475.6	6475.6
17.5°	6450.9	6436.8	6408.7	6387.5	6366.2	6362.8	6366.2
20°	6345.0	6330.9	6295.7	6281.6	6264.0	6264.0	6256.9
22.5°	6239.1	6225.1	6193.4	6182.8	6158.1	6158.1	6161.6
25°	6129.8	6119.2	6083.9	6076.9	6073.4	6059.2	6066.3
27.5°	5981.6	5974.5	5946.3	5935.7	5921.6	5918.1	5925.1
30°	5709.8	5699.2	5678.2	5667.6	5642.9	5646.4	5653.3
32.5°	5371.1	5357.0	5328.7	5318.1	5297.0	5289.9	5293.4
35°	4947.7	4937.1	4912.4	4912.4	4891.2	4884.1	4891.2
37.5°	4517.1	4527.6	4517.1	4527.6	4517.1	4513.5	4517.1
40°	4111.3	4150.1	4157.1	4196.0	4181.9	4203.0	4199.5
42.5°	3723.0	3786.5	3811.4	3843.0	3836.0	3850.1	3860.7
45°	3331.3	3384.3	3409.0	3430.2	3433.7	3440.8	3444.3
47.5°	2960.7	3003.2	3006.6	3031.3	3027.8	3027.8	3038.4
50°	2615.0	2643.2	2650.2	2667.9	2653.8	2646.7	2650.2
52.5°	2293.9	2322.0	2314.9	2322.0	2304.5	2297.4	2300.8
55°	1965.6	1979.7	1979.7	1979.7	1958.6	1958.6	1958.6
57.5°	1630.3	1634.0	1626.9	1630.3	1626.9	1605.7	1602.2
60°	1323.4	1323.4	1319.8	1323.4	1312.8	1302.2	1302.2
62.5°	1033.9	1041.0	1055.1	1041.0	1033.9	1041.0	1030.4
65°	772.9	787.0	783.4	790.5	787.0	787.0	779.9
67.5°	582.3	585.8	589.3	592.9	592.9	592.9	592.9
70°	427.1	437.7	434.0	434.0	434.0	434.0	455.2
72.5°	285.9	300.0	296.5	303.4	303.4	310.6	303.4
75°	194.1	208.2	201.2	211.8	208.2	201.2	218.8
77.5°	130.6	137.7	141.2	144.7	141.2	137.7	141.2
80°	91.8	98.8	95.3	98.8	98.8	98.8	102.4
82.5°	56.5	67.1	63.5	67.1	63.5	67.1	67.1
85°	38.8	42.4	35.3	42.4	38.8	38.8	45.9
87.5°	24.7	21.2	21.2	24.7	21.2	24.7	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)