

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: P248829

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248829
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 ER8B200935 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17070.0 lumens
Efficiency: N/A
Efficacy: 76.4 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

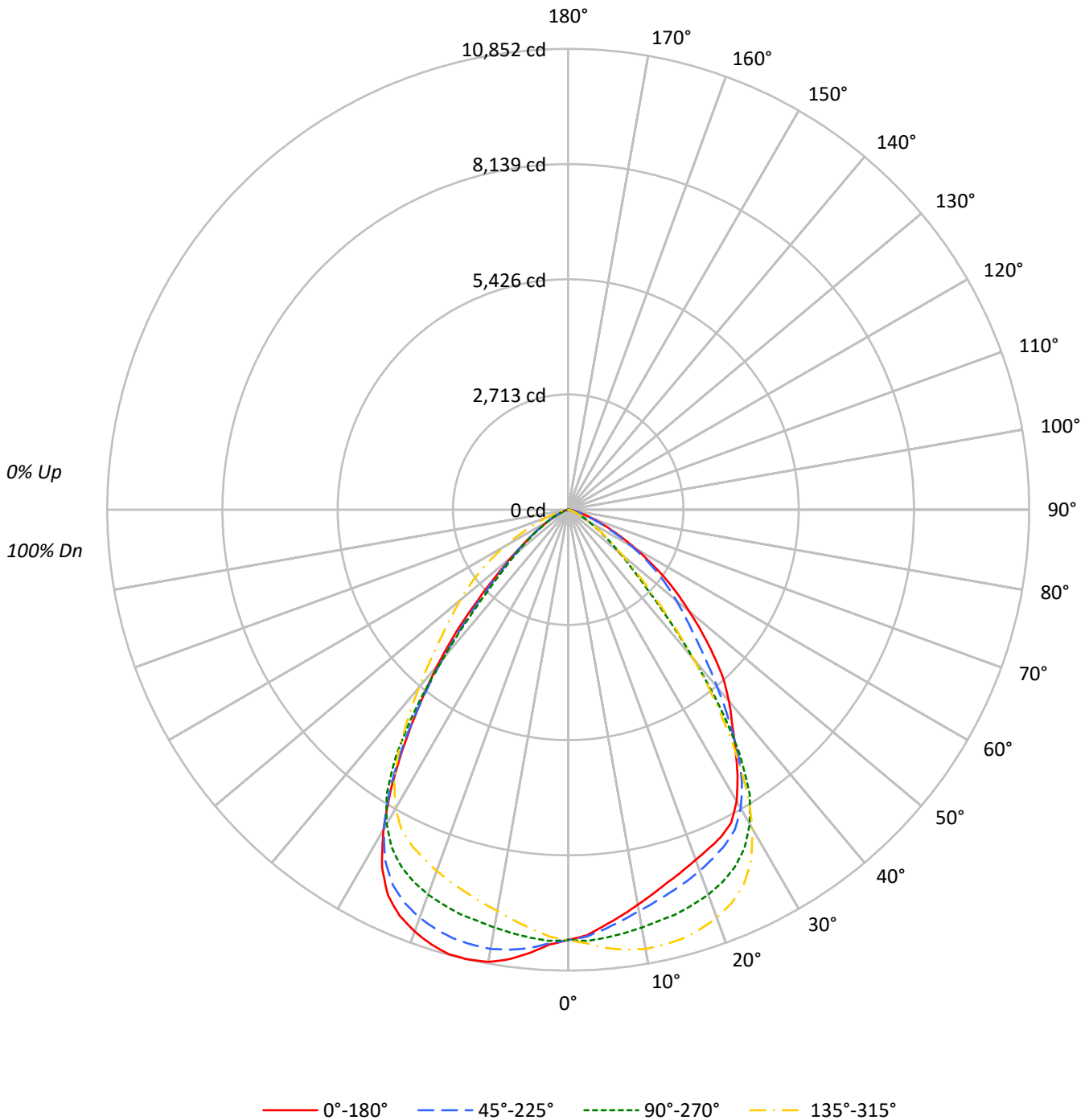
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

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°	312492	312492	312492	312492
5°	304192	313228	324411	313228
10°	295776	312816	338536	312816
15°	289868	314673	345949	314673
20°	287895	316474	346838	316474
25°	289409	315839	341262	315839
30°	282251	304277	309743	304277
35°	258175	265433	251840	265433
40°	237031	184641	192816	184641
45°	210610	112642	130335	112642
50°	178267	75245	83559	75245
55°	147645	51342	54267	51342
60°	112608	34179	34481	34179
65°	79787	21298	19496	21298
70°	57549	14272	12947	14272
75°	36541	7089	5898	7089
80°	25500	5274	4368	5274
85°	22785	0	1734	0



TEST NUMBER: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.6	5.7
10°-20°	2793.2	16.4
20°-30°	4229.5	24.8
30°-40°	4239.0	24.8
40°-50°	2661.9	15.6
50°-60°	1418.5	8.3
60°-70°	583.3	3.4
70°-80°	154.1	0.9
80°-90°	26.1	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°	7987.2	46.8
0°-40°	12226.2	71.6
0°-60°	16306.5	95.5
0°-90°	17070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17070.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10134	10134	10134	10134	10134	
5°	9827	10119	10480	10119	9827	927
15°	9080	9857	10837	9857	9080	2568
25°	8506	9283	10030	9283	8506	3901
35°	6858	7051	6690	7051	6858	4297
45°	4830	2583	2989	2583	4830	3714
55°	2746	955	1009	955	2746	2448
65°	1094	292	267	292	1094	1134
75°	307	60	50	60	307	348
85°	64	0	5	0	64	71
90°	0	0	0	0	0	



TEST NUMBER: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10030.0	10020.1	10015.2	10025.2	10030.0	10049.8	10044.9	10054.7	10054.7	10059.8	10069.6
5°	9827.2	9822.1	9827.2	9827.2	9846.9	9866.7	9861.8	9876.7	9886.5	9911.3	9921.1
7.5°	9639.2	9639.2	9634.1	9653.9	9663.8	9693.6	9688.5	9713.3	9728.2	9752.8	9787.5
10°	9446.1	9446.1	9451.0	9465.9	9471.0	9515.4	9515.4	9550.0	9569.7	9594.6	9639.2
12.5°	9258.1	9258.1	9287.9	9277.9	9297.6	9332.3	9347.1	9381.8	9411.5	9461.0	9505.6
15°	9079.9	9079.9	9089.9	9114.5	9129.4	9174.0	9198.7	9238.4	9273.0	9322.5	9386.8
17.5°	8926.5	8921.7	8926.5	8956.3	8986.0	9025.5	9045.3	9094.8	9129.4	9193.8	9253.2
20°	8773.2	8783.2	8783.2	8807.8	8827.6	8877.1	8896.8	8951.4	8990.9	9050.2	9119.6
22.5°	8639.6	8634.7	8634.7	8669.3	8684.2	8728.6	8748.3	8797.8	8842.4	8891.9	8956.3
25°	8506.0	8496.0	8515.9	8520.8	8530.6	8580.1	8595.0	8629.6	8674.2	8718.8	8783.2
27.5°	8308.0	8298.2	8303.1	8322.9	8337.7	8377.2	8387.2	8421.8	8456.5	8496.0	8550.6
30°	7926.9	7917.1	7912.3	7946.9	7961.8	7991.3	8006.2	8065.6	8075.4	8120.0	8159.5
32.5°	7422.2	7417.3	7427.3	7456.8	7471.7	7511.4	7531.2	7565.8	7590.5	7615.3	7654.8
35°	6858.3	6848.3	6858.3	6888.0	6888.0	6922.6	6937.5	6952.1	6947.3	6952.1	6942.4
37.5°	6333.8	6328.7	6333.8	6348.5	6333.8	6348.5	6333.8	6304.1	6249.7	6190.2	6130.7
40°	5888.4	5893.3	5863.7	5883.5	5828.9	5819.1	5764.7	5690.4	5581.6	5462.9	5294.7
42.5°	5413.4	5398.5	5378.8	5388.6	5344.2	5309.3	5220.3	5126.4	4987.7	4790.0	4586.9
45°	4829.5	4824.6	4814.6	4809.7	4780.0	4745.4	4671.0	4562.3	4408.9	4206.0	3963.5
47.5°	4260.4	4245.5	4245.5	4250.4	4215.8	4210.9	4151.5	4057.6	3924.0	3726.0	3473.6
50°	3716.0	3711.1	3721.1	3740.8	3716.0	3706.2	3666.7	3602.4	3483.6	3315.4	3077.7
52.5°	3226.2	3221.3	3231.3	3255.9	3245.9	3255.9	3216.4	3166.9	3087.7	2924.3	2716.6
55°	2746.3	2746.3	2746.3	2775.8	2775.8	2775.8	2756.1	2726.6	2652.2	2533.5	2340.6
57.5°	2246.5	2251.4	2281.1	2286.0	2281.1	2291.1	2286.0	2256.3	2207.0	2122.9	1974.4
60°	1825.9	1825.9	1840.8	1855.7	1850.6	1855.7	1855.7	1840.8	1791.3	1722.0	1603.3
62.5°	1444.9	1459.7	1449.7	1459.7	1479.5	1459.7	1449.7	1440.0	1405.3	1360.7	1261.7
65°	1093.5	1103.5	1103.5	1108.4	1098.4	1103.5	1083.7	1068.9	1049.1	999.6	935.3
67.5°	831.4	831.4	831.4	831.4	826.3	821.4	816.5	801.7	767.0	747.3	677.8
70°	638.3	608.6	608.6	608.6	608.6	613.7	598.8	579.0	569.1	534.4	484.9
72.5°	425.5	435.5	425.5	425.5	415.7	420.6	400.8	390.8	381.1	361.3	331.6
75°	306.7	282.1	291.9	297.0	282.1	291.9	272.1	252.3	252.3	237.5	222.6
77.5°	198.0	193.1	198.0	202.9	198.0	193.1	183.1	173.1	173.1	168.2	153.4
80°	143.6	138.5	138.5	138.5	133.6	138.5	128.7	128.7	118.7	113.9	103.9
82.5°	94.1	94.1	89.0	94.1	89.0	94.1	79.2	79.2	79.2	74.1	64.4
85°	64.4	54.4	54.4	59.5	49.5	59.5	54.4	49.5	44.6	44.6	39.5
87.5°	29.7	34.6	29.7	34.6	29.7	29.7	34.6	29.7	29.7	19.8	19.8
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: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10084.4	10089.3	10089.3	10109.3	10119.1	10123.9	10123.9	10163.7	10148.8	10158.8	10168.5
5°	9941.0	9970.6	9980.6	9980.6	10034.9	10054.7	10074.4	10119.1	10123.9	10153.7	10188.3
7.5°	9802.3	9837.0	9856.9	9901.3	9935.9	9970.6	10030.0	10059.8	10089.3	10129.0	10173.4
10°	9668.7	9708.4	9748.0	9782.6	9837.0	9881.6	9921.1	9990.3	10025.2	10079.5	10138.8
12.5°	9540.2	9594.6	9629.2	9688.5	9748.0	9787.5	9846.9	9911.3	9965.7	10020.1	10089.3
15°	9426.4	9490.7	9530.2	9594.6	9659.0	9713.3	9777.7	9856.9	9896.4	9960.8	10025.2
17.5°	9302.5	9372.0	9421.5	9480.7	9560.0	9619.2	9673.8	9752.8	9802.3	9871.6	9945.9
20°	9174.0	9243.3	9302.5	9362.0	9441.2	9500.5	9564.9	9644.1	9698.5	9767.7	9827.2
22.5°	9020.6	9085.0	9149.2	9218.4	9297.6	9347.1	9421.5	9490.7	9550.0	9614.4	9673.8
25°	8822.7	8901.9	8951.4	9015.6	9079.9	9134.3	9213.5	9282.8	9332.3	9391.7	9446.1
27.5°	8590.1	8649.6	8689.1	8743.4	8807.8	8857.3	8916.6	8986.0	9035.5	9089.9	9129.4
30°	8194.1	8248.7	8283.4	8322.9	8387.2	8431.8	8481.3	8545.5	8580.1	8619.8	8654.4
32.5°	7674.6	7719.2	7738.9	7768.7	7813.3	7857.7	7897.4	7951.8	7966.6	7991.3	7991.3
35°	6922.6	6932.4	6927.5	6937.5	6957.2	6981.9	7016.5	7051.1	7070.9	7070.9	7056.2
37.5°	6041.7	5982.5	5918.1	5868.6	5853.7	5843.8	5863.7	5878.4	5898.3	5908.1	5883.5
40°	5126.4	4992.8	4849.2	4720.5	4631.5	4592.0	4577.1	4586.9	4586.9	4621.5	4621.5
42.5°	4339.6	4131.7	3919.1	3726.0	3597.3	3498.5	3453.9	3453.9	3458.8	3483.6	3498.5
45°	3686.5	3424.1	3176.7	2964.0	2785.8	2657.1	2597.8	2583.0	2578.1	2587.9	2622.5
47.5°	3186.7	2914.6	2657.1	2395.0	2207.0	2078.3	2023.9	2003.9	1984.2	2003.9	2009.0
50°	2795.8	2513.7	2241.6	1979.3	1781.3	1667.5	1598.2	1568.5	1563.6	1563.6	1573.6
52.5°	2439.4	2177.3	1905.2	1637.9	1430.0	1321.2	1256.9	1242.0	1222.2	1242.0	1242.0
55°	2102.9	1840.8	1573.6	1321.2	1147.9	1034.2	974.8	955.0	945.0	959.9	959.9
57.5°	1736.9	1514.1	1266.8	1039.1	866.0	786.8	742.2	717.5	712.4	722.4	712.4
60°	1425.1	1237.1	1024.3	816.5	682.9	598.8	564.2	554.2	544.2	554.2	554.2
62.5°	1128.1	969.9	796.6	638.3	524.5	465.2	425.5	425.5	420.6	420.6	425.5
65°	836.3	712.4	588.8	455.2	366.2	321.6	291.9	291.9	287.0	291.9	287.0
67.5°	608.6	524.5	425.5	331.6	262.3	237.5	217.7	202.9	212.8	202.9	198.0
70°	445.4	376.0	306.7	252.3	202.9	178.2	163.3	158.3	148.5	148.5	148.5
72.5°	297.0	252.3	207.7	163.3	133.6	108.8	103.9	94.1	84.1	89.0	99.0
75°	198.0	168.2	148.5	118.7	89.0	89.0	59.5	59.5	49.5	59.5	44.6
77.5°	138.5	113.9	89.0	74.1	59.5	54.4	39.5	39.5	34.6	34.6	34.6
80°	99.0	84.1	64.4	54.4	39.5	39.5	34.6	29.7	24.6	24.6	29.7
82.5°	59.5	44.6	44.6	39.5	24.6	19.8	14.9	19.8	10.0	10.0	10.0
85°	34.6	29.7	24.6	14.9	10.0	10.0	4.9	0.0	4.9	4.9	0.0
87.5°	19.8	10.0	10.0	4.9	0.0	4.9	4.9	0.0	0.0	0.0	10.0
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: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10193.4	10188.3	10198.3	10198.3	10228.0	10222.9	10237.8	10237.8	10228.0	10232.9	10252.7
5°	10228.0	10242.9	10272.4	10297.3	10341.7	10361.6	10386.3	10411.1	10416.0	10430.9	10445.7
7.5°	10228.0	10277.5	10312.1	10356.5	10416.0	10450.6	10505.0	10549.6	10569.4	10594.0	10623.8
10°	10208.1	10257.5	10321.9	10371.4	10445.7	10500.1	10554.5	10623.8	10653.5	10693.0	10732.7
12.5°	10168.5	10222.9	10292.2	10356.5	10440.6	10490.1	10559.4	10623.8	10668.4	10722.7	10767.3
15°	10109.3	10173.4	10237.8	10302.2	10391.2	10450.6	10515.0	10589.1	10633.7	10693.0	10732.7
17.5°	10015.2	10084.4	10143.9	10203.2	10287.3	10356.5	10416.0	10485.3	10529.9	10579.3	10633.7
20°	9901.3	9965.7	10030.0	10079.5	10163.7	10222.9	10287.3	10351.6	10386.3	10396.2	10480.4
22.5°	9757.9	9802.3	9851.8	9931.1	9980.6	10034.9	10094.4	10153.7	10188.3	10242.9	10272.4
25°	9520.3	9564.9	9619.2	9653.9	9713.3	9757.9	9817.2	9881.6	9901.3	9941.0	9970.6
27.5°	9188.9	9213.5	9238.4	9267.9	9302.5	9327.4	9362.0	9391.7	9411.5	9431.2	9451.0
30°	8664.2	8664.2	8664.2	8644.5	8659.3	8674.2	8679.1	8674.2	8674.2	8669.3	8669.3
32.5°	7971.5	7932.0	7887.4	7847.9	7833.0	7813.3	7803.3	7788.4	7763.8	7748.9	7753.8
35°	7036.3	6947.3	6892.9	6843.4	6803.9	6774.1	6759.3	6744.4	6739.5	6719.8	6699.8
37.5°	5868.6	5804.3	5764.7	5735.0	5700.4	5670.6	5675.5	5680.6	5695.3	5685.5	5690.4
40°	4631.5	4616.6	4631.5	4596.9	4586.9	4596.9	4621.5	4656.4	4676.1	4695.9	4730.5
42.5°	3523.1	3547.8	3582.6	3582.6	3597.3	3617.2	3646.8	3701.3	3730.9	3765.5	3805.2
45°	2652.2	2682.0	2726.6	2741.2	2751.2	2775.8	2810.7	2855.1	2874.8	2904.6	2939.2
47.5°	2043.6	2063.4	2088.0	2112.9	2137.5	2147.5	2182.1	2182.1	2207.0	2226.7	2236.5
50°	1593.3	1613.1	1632.8	1647.7	1657.7	1672.6	1682.3	1697.2	1702.1	1712.1	1717.0
52.5°	1246.9	1271.7	1271.7	1281.5	1296.4	1311.2	1306.4	1311.2	1316.1	1316.1	1331.0
55°	974.8	974.8	989.6	989.6	999.6	994.5	999.6	999.6	999.6	999.6	1004.5
57.5°	727.3	732.4	747.3	737.3	732.4	742.2	732.4	742.2	737.3	747.3	732.4
60°	559.1	559.1	564.2	564.2	569.1	569.1	569.1	564.2	564.2	559.1	559.1
62.5°	420.6	425.5	430.6	425.5	425.5	425.5	420.6	420.6	415.7	410.6	410.6
65°	282.1	277.2	287.0	277.2	282.1	282.1	277.2	282.1	267.2	272.1	267.2
67.5°	202.9	198.0	193.1	198.0	193.1	188.0	188.0	193.1	198.0	183.1	183.1
70°	133.6	138.5	133.6	138.5	143.6	143.6	138.5	133.6	138.5	128.7	133.6
72.5°	84.1	84.1	84.1	84.1	84.1	89.0	89.0	89.0	79.2	79.2	74.1
75°	39.5	54.4	44.6	39.5	54.4	54.4	49.5	49.5	44.6	44.6	44.6
77.5°	39.5	29.7	29.7	29.7	29.7	29.7	29.7	29.7	24.6	29.7	24.6
80°	19.8	19.8	19.8	14.9	19.8	19.8	24.6	19.8	19.8	14.9	24.6
82.5°	10.0	10.0	10.0	0.0	4.9	10.0	10.0	4.9	10.0	10.0	4.9
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: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10247.8	10242.9	10247.8	10252.7	10247.8	10242.9	10247.8	10252.7	10232.9	10228.0	10237.8
5°	10465.5	10465.5	10475.3	10480.4	10475.3	10465.5	10465.5	10445.7	10430.9	10416.0	10411.1
7.5°	10653.5	10663.5	10673.2	10678.1	10673.2	10663.5	10653.5	10623.8	10594.0	10569.4	10549.6
10°	10767.3	10782.2	10802.0	10811.7	10802.0	10782.2	10767.3	10732.7	10693.0	10653.5	10623.8
12.5°	10816.8	10831.7	10856.3	10851.5	10856.3	10831.7	10816.8	10767.3	10722.7	10668.4	10623.8
15°	10782.2	10802.0	10826.6	10836.6	10826.6	10802.0	10782.2	10732.7	10693.0	10633.7	10589.1
17.5°	10673.2	10703.0	10717.8	10732.7	10717.8	10703.0	10673.2	10633.7	10579.3	10529.9	10485.3
20°	10524.8	10544.7	10564.5	10569.4	10564.5	10544.7	10524.8	10480.4	10396.2	10386.3	10351.6
22.5°	10312.1	10327.0	10371.4	10356.5	10371.4	10327.0	10312.1	10272.4	10242.9	10188.3	10153.7
25°	10005.2	10020.1	10025.2	10030.0	10025.2	10020.1	10005.2	9970.6	9941.0	9901.3	9881.6
27.5°	9475.9	9475.9	9485.6	9490.7	9485.6	9475.9	9475.9	9451.0	9431.2	9411.5	9391.7
30°	8674.2	8674.2	8674.2	8699.0	8674.2	8674.2	8674.2	8669.3	8669.3	8674.2	8674.2
32.5°	7748.9	7738.9	7729.2	7738.9	7729.2	7738.9	7748.9	7753.8	7748.9	7763.8	7788.4
35°	6699.8	6694.9	6709.8	6690.0	6709.8	6694.9	6699.8	6699.8	6719.8	6739.5	6744.4
37.5°	5695.3	5685.5	5705.3	5685.5	5705.3	5685.5	5695.3	5690.4	5685.5	5695.3	5680.6
40°	4740.5	4750.2	4750.2	4790.0	4750.2	4750.2	4740.5	4730.5	4695.9	4676.1	4656.4
42.5°	3825.0	3854.7	3844.7	3874.5	3844.7	3854.7	3825.0	3805.2	3765.5	3730.9	3701.3
45°	2959.0	2978.9	2978.9	2988.7	2978.9	2978.9	2959.0	2939.2	2904.6	2874.8	2855.1
47.5°	2271.1	2271.1	2271.1	2276.2	2271.1	2271.1	2271.1	2236.5	2226.7	2207.0	2182.1
50°	1726.9	1731.8	1736.9	1741.8	1736.9	1731.8	1726.9	1717.0	1712.1	1702.1	1697.2
52.5°	1326.1	1331.0	1321.2	1331.0	1321.2	1331.0	1326.1	1331.0	1316.1	1316.1	1311.2
55°	1004.5	999.6	1004.5	1009.4	1004.5	999.6	1004.5	1004.5	999.6	999.6	999.6
57.5°	737.3	727.3	727.3	727.3	727.3	727.3	737.3	732.4	747.3	737.3	742.2
60°	549.3	554.2	554.2	559.1	554.2	554.2	549.3	559.1	559.1	564.2	564.2
62.5°	405.7	420.6	410.6	420.6	410.6	420.6	405.7	410.6	410.6	415.7	420.6
65°	262.3	262.3	262.3	267.2	262.3	262.3	262.3	267.2	272.1	267.2	282.1
67.5°	178.2	183.1	193.1	188.0	193.1	183.1	178.2	183.1	183.1	198.0	193.1
70°	143.6	128.7	128.7	143.6	128.7	128.7	143.6	133.6	128.7	138.5	133.6
72.5°	84.1	74.1	84.1	84.1	84.1	74.1	84.1	74.1	79.2	79.2	89.0
75°	44.6	39.5	34.6	49.5	34.6	39.5	44.6	44.6	44.6	44.6	49.5
77.5°	29.7	24.6	34.6	34.6	34.6	24.6	29.7	24.6	29.7	24.6	29.7
80°	14.9	19.8	14.9	24.6	14.9	19.8	14.9	24.6	14.9	19.8	19.8
82.5°	4.9	10.0	10.0	10.0	10.0	10.0	4.9	4.9	10.0	10.0	4.9
85°	0.0	10.0	4.9	4.9	4.9	10.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	0.0	0.0	4.9	0.0	0.0	4.9	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: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10237.8	10222.9	10228.0	10198.3	10198.3	10188.3	10193.4	10168.5	10158.8	10148.8	10163.7
5°	10386.3	10361.6	10341.7	10297.3	10272.4	10242.9	10228.0	10188.3	10153.7	10123.9	10119.1
7.5°	10505.0	10450.6	10416.0	10356.5	10312.1	10277.5	10228.0	10173.4	10129.0	10089.3	10059.8
10°	10554.5	10500.1	10445.7	10371.4	10321.9	10257.5	10208.1	10138.8	10079.5	10025.2	9990.3
12.5°	10559.4	10490.1	10440.6	10356.5	10292.2	10222.9	10168.5	10089.3	10020.1	9965.7	9911.3
15°	10515.0	10450.6	10391.2	10302.2	10237.8	10173.4	10109.3	10025.2	9960.8	9896.4	9856.9
17.5°	10416.0	10356.5	10287.3	10203.2	10143.9	10084.4	10015.2	9945.9	9871.6	9802.3	9752.8
20°	10287.3	10222.9	10163.7	10079.5	10030.0	9965.7	9901.3	9827.2	9767.7	9698.5	9644.1
22.5°	10094.4	10034.9	9980.6	9931.1	9851.8	9802.3	9757.9	9673.8	9614.4	9550.0	9490.7
25°	9817.2	9757.9	9713.3	9653.9	9619.2	9564.9	9520.3	9446.1	9391.7	9332.3	9282.8
27.5°	9362.0	9327.4	9302.5	9267.9	9238.4	9213.5	9188.9	9129.4	9089.9	9035.5	8986.0
30°	8679.1	8674.2	8659.3	8644.5	8664.2	8664.2	8664.2	8654.4	8619.8	8580.1	8545.5
32.5°	7803.3	7813.3	7833.0	7847.9	7887.4	7932.0	7971.5	7991.3	7991.3	7966.6	7951.8
35°	6759.3	6774.1	6803.9	6843.4	6892.9	6947.3	7036.3	7056.2	7070.9	7070.9	7051.1
37.5°	5675.5	5670.6	5700.4	5735.0	5764.7	5804.3	5868.6	5883.5	5908.1	5898.3	5878.4
40°	4621.5	4596.9	4586.9	4596.9	4631.5	4616.6	4631.5	4621.5	4621.5	4586.9	4586.9
42.5°	3646.8	3617.2	3597.3	3582.6	3582.6	3547.8	3523.1	3498.5	3483.6	3458.8	3453.9
45°	2810.7	2775.8	2751.2	2741.2	2726.6	2682.0	2652.2	2622.5	2587.9	2578.1	2583.0
47.5°	2182.1	2147.5	2137.5	2112.9	2088.0	2063.4	2043.6	2009.0	2003.9	1984.2	2003.9
50°	1682.3	1672.6	1657.7	1647.7	1632.8	1613.1	1593.3	1573.6	1563.6	1563.6	1568.5
52.5°	1306.4	1311.2	1296.4	1281.5	1271.7	1271.7	1246.9	1242.0	1242.0	1222.2	1242.0
55°	999.6	994.5	999.6	989.6	989.6	974.8	974.8	959.9	959.9	945.0	955.0
57.5°	732.4	742.2	732.4	737.3	747.3	732.4	727.3	712.4	722.4	712.4	717.5
60°	569.1	569.1	569.1	564.2	564.2	559.1	559.1	554.2	554.2	544.2	554.2
62.5°	420.6	425.5	425.5	425.5	430.6	425.5	420.6	425.5	420.6	420.6	425.5
65°	277.2	282.1	282.1	277.2	287.0	277.2	282.1	287.0	291.9	287.0	291.9
67.5°	188.0	188.0	193.1	198.0	193.1	198.0	202.9	198.0	202.9	212.8	202.9
70°	138.5	143.6	143.6	138.5	133.6	138.5	133.6	148.5	148.5	148.5	158.3
72.5°	89.0	89.0	84.1	84.1	84.1	84.1	84.1	99.0	89.0	84.1	94.1
75°	49.5	54.4	54.4	39.5	44.6	54.4	39.5	44.6	59.5	49.5	59.5
77.5°	29.7	29.7	29.7	29.7	29.7	29.7	39.5	34.6	34.6	34.6	39.5
80°	24.6	19.8	19.8	14.9	19.8	19.8	19.8	29.7	24.6	24.6	29.7
82.5°	10.0	10.0	4.9	0.0	10.0	10.0	10.0	10.0	10.0	10.0	19.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	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: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10123.9	10123.9	10119.1	10109.3	10089.3	10089.3	10084.4	10069.6	10059.8	10054.7	10054.7
5°	10074.4	10054.7	10034.9	9980.6	9980.6	9970.6	9941.0	9921.1	9911.3	9886.5	9876.7
7.5°	10030.0	9970.6	9935.9	9901.3	9856.9	9837.0	9802.3	9787.5	9752.8	9728.2	9713.3
10°	9921.1	9881.6	9837.0	9782.6	9748.0	9708.4	9668.7	9639.2	9594.6	9569.7	9550.0
12.5°	9846.9	9787.5	9748.0	9688.5	9629.2	9594.6	9540.2	9505.6	9461.0	9411.5	9381.8
15°	9777.7	9713.3	9659.0	9594.6	9530.2	9490.7	9426.4	9386.8	9322.5	9273.0	9238.4
17.5°	9673.8	9619.2	9560.0	9480.7	9421.5	9372.0	9302.5	9253.2	9193.8	9129.4	9094.8
20°	9564.9	9500.5	9441.2	9362.0	9302.5	9243.3	9174.0	9119.6	9050.2	8990.9	8951.4
22.5°	9421.5	9347.1	9297.6	9218.4	9149.2	9085.0	9020.6	8956.3	8891.9	8842.4	8797.8
25°	9213.5	9134.3	9079.9	9015.6	8951.4	8901.9	8822.7	8783.2	8718.8	8674.2	8629.6
27.5°	8916.6	8857.3	8807.8	8743.4	8689.1	8649.6	8590.1	8550.6	8496.0	8456.5	8421.8
30°	8481.3	8431.8	8387.2	8322.9	8283.4	8248.7	8194.1	8159.5	8120.0	8075.4	8065.6
32.5°	7897.4	7857.7	7813.3	7768.7	7738.9	7719.2	7674.6	7654.8	7615.3	7590.5	7565.8
35°	7016.5	6981.9	6957.2	6937.5	6927.5	6932.4	6922.6	6942.4	6952.1	6947.3	6952.1
37.5°	5863.7	5843.8	5853.7	5868.6	5918.1	5982.5	6041.7	6130.7	6190.2	6249.7	6304.1
40°	4577.1	4592.0	4631.5	4720.5	4849.2	4992.8	5126.4	5294.7	5462.9	5581.6	5690.4
42.5°	3453.9	3498.5	3597.3	3726.0	3919.1	4131.7	4339.6	4586.9	4790.0	4987.7	5126.4
45°	2597.8	2657.1	2785.8	2964.0	3176.7	3424.1	3686.5	3963.5	4206.0	4408.9	4562.3
47.5°	2023.9	2078.3	2207.0	2395.0	2657.1	2914.6	3186.7	3473.6	3726.0	3924.0	4057.6
50°	1598.2	1667.5	1781.3	1979.3	2241.6	2513.7	2795.8	3077.7	3315.4	3483.6	3602.4
52.5°	1256.9	1321.2	1430.0	1637.9	1905.2	2177.3	2439.4	2716.6	2924.3	3087.7	3166.9
55°	974.8	1034.2	1147.9	1321.2	1573.6	1840.8	2102.9	2340.6	2533.5	2652.2	2726.6
57.5°	742.2	786.8	866.0	1039.1	1266.8	1514.1	1736.9	1974.4	2122.9	2207.0	2256.3
60°	564.2	598.8	682.9	816.5	1024.3	1237.1	1425.1	1603.3	1722.0	1791.3	1840.8
62.5°	425.5	465.2	524.5	638.3	796.6	969.9	1128.1	1261.7	1360.7	1405.3	1440.0
65°	291.9	321.6	366.2	455.2	588.8	712.4	836.3	935.3	999.6	1049.1	1068.9
67.5°	217.7	237.5	262.3	331.6	425.5	524.5	608.6	677.8	747.3	767.0	801.7
70°	163.3	178.2	202.9	252.3	306.7	376.0	445.4	484.9	534.4	569.1	579.0
72.5°	103.9	108.8	133.6	163.3	207.7	252.3	297.0	331.6	361.3	381.1	390.8
75°	59.5	89.0	89.0	118.7	148.5	168.2	198.0	222.6	237.5	252.3	252.3
77.5°	39.5	54.4	59.5	74.1	89.0	113.9	138.5	153.4	168.2	173.1	173.1
80°	34.6	39.5	39.5	54.4	64.4	84.1	99.0	103.9	113.9	118.7	128.7
82.5°	14.9	19.8	24.6	39.5	44.6	44.6	59.5	64.4	74.1	79.2	79.2
85°	4.9	10.0	10.0	14.9	24.6	29.7	34.6	39.5	44.6	44.6	49.5
87.5°	4.9	4.9	0.0	4.9	10.0	10.0	19.8	19.8	19.8	29.7	29.7
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: P248829

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9	10133.9
2.5°	10044.9	10049.8	10030.0	10025.2	10015.2	10020.1	10030.0
5°	9861.8	9866.7	9846.9	9827.2	9827.2	9822.1	9827.2
7.5°	9688.5	9693.6	9663.8	9653.9	9634.1	9639.2	9639.2
10°	9515.4	9515.4	9471.0	9465.9	9451.0	9446.1	9446.1
12.5°	9347.1	9332.3	9297.6	9277.9	9287.9	9258.1	9258.1
15°	9198.7	9174.0	9129.4	9114.5	9089.9	9079.9	9079.9
17.5°	9045.3	9025.5	8986.0	8956.3	8926.5	8921.7	8926.5
20°	8896.8	8877.1	8827.6	8807.8	8783.2	8783.2	8773.2
22.5°	8748.3	8728.6	8684.2	8669.3	8634.7	8634.7	8639.6
25°	8595.0	8580.1	8530.6	8520.8	8515.9	8496.0	8506.0
27.5°	8387.2	8377.2	8337.7	8322.9	8303.1	8298.2	8308.0
30°	8006.2	7991.3	7961.8	7946.9	7912.3	7917.1	7926.9
32.5°	7531.2	7511.4	7471.7	7456.8	7427.3	7417.3	7422.2
35°	6937.5	6922.6	6888.0	6888.0	6858.3	6848.3	6858.3
37.5°	6333.8	6348.5	6333.8	6348.5	6333.8	6328.7	6333.8
40°	5764.7	5819.1	5828.9	5883.5	5863.7	5893.3	5888.4
42.5°	5220.3	5309.3	5344.2	5388.6	5378.8	5398.5	5413.4
45°	4671.0	4745.4	4780.0	4809.7	4814.6	4824.6	4829.5
47.5°	4151.5	4210.9	4215.8	4250.4	4245.5	4245.5	4260.4
50°	3666.7	3706.2	3716.0	3740.8	3721.1	3711.1	3716.0
52.5°	3216.4	3255.9	3245.9	3255.9	3231.3	3221.3	3226.2
55°	2756.1	2775.8	2775.8	2775.8	2746.3	2746.3	2746.3
57.5°	2286.0	2291.1	2281.1	2286.0	2281.1	2251.4	2246.5
60°	1855.7	1855.7	1850.6	1855.7	1840.8	1825.9	1825.9
62.5°	1449.7	1459.7	1479.5	1459.7	1449.7	1459.7	1444.9
65°	1083.7	1103.5	1098.4	1108.4	1103.5	1103.5	1093.5
67.5°	816.5	821.4	826.3	831.4	831.4	831.4	831.4
70°	598.8	613.7	608.6	608.6	608.6	608.6	638.3
72.5°	400.8	420.6	415.7	425.5	425.5	435.5	425.5
75°	272.1	291.9	282.1	297.0	291.9	282.1	306.7
77.5°	183.1	193.1	198.0	202.9	198.0	193.1	198.0
80°	128.7	138.5	133.6	138.5	138.5	138.5	143.6
82.5°	79.2	94.1	89.0	94.1	89.0	94.1	94.1
85°	54.4	59.5	49.5	59.5	54.4	54.4	64.4
87.5°	34.6	29.7	29.7	34.6	29.7	34.6	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)