

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: P248901

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248901  
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 ER8B200840 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16417.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 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

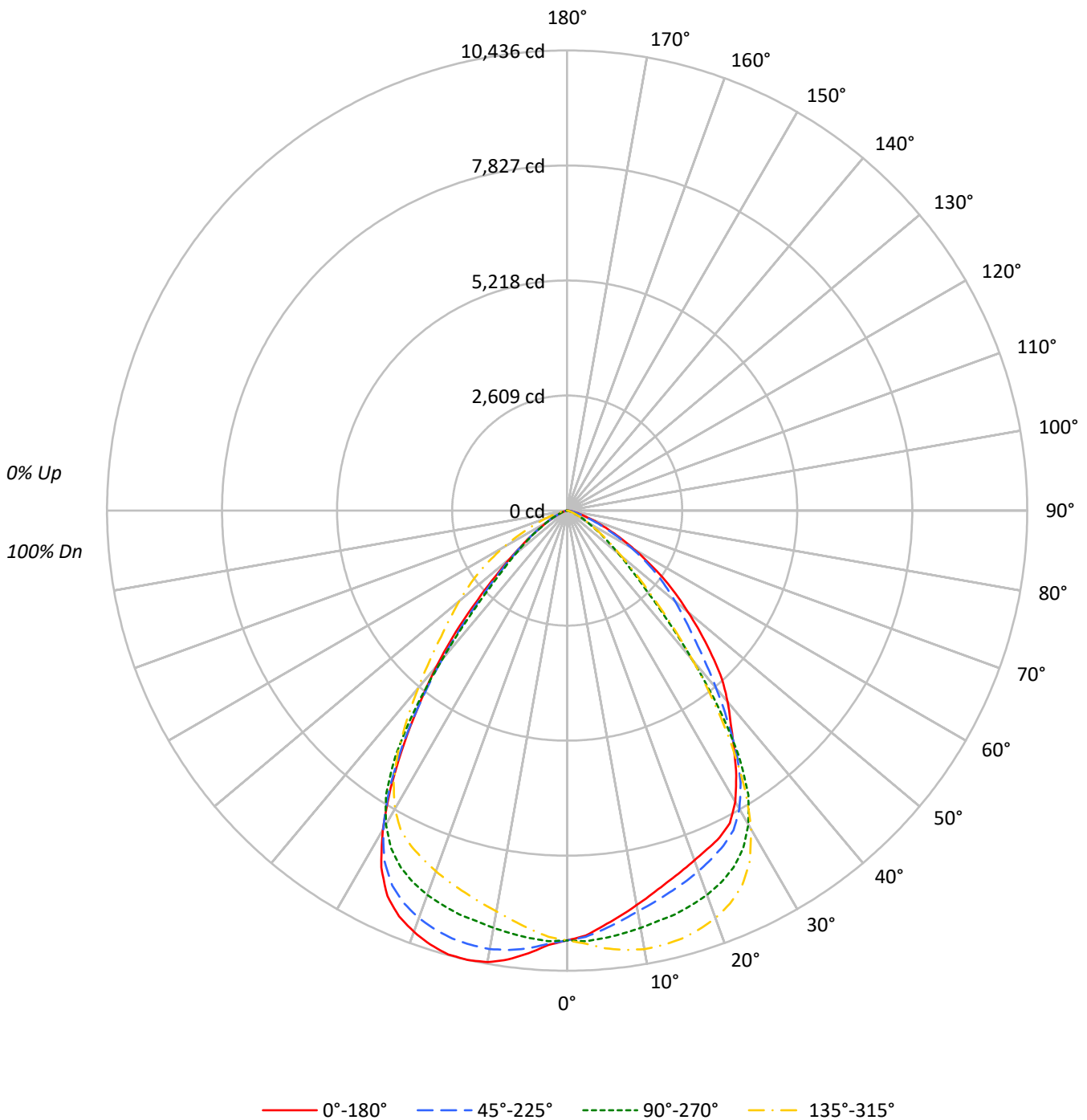
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	300540	300540	300540	300540
5°	292557	301245	311999	301245
10°	284463	300852	325585	300852
15°	278780	302637	332713	302637
20°	276883	304369	333568	304369
25°	278338	303757	328210	303757
30°	271455	292637	297896	292637
35°	248297	255280	242206	255280
40°	227962	177576	185438	177576
45°	202551	108334	125350	108334
50°	171445	72367	80364	72367
55°	142000	49380	52192	49380
60°	108303	32872	33161	32872
65°	76737	20481	18752	20481
70°	55349	13722	12451	13722
75°	35147	6815	5671	6815
80°	24524	5079	4209	5079
85°	21901	0	1663	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	927.7	5.7
10°-20°	2686.3	16.4
20°-30°	4067.7	24.8
30°-40°	4076.8	24.8
40°-50°	2560.0	15.6
50°-60°	1364.3	8.3
60°-70°	561.0	3.4
70°-80°	148.2	0.9
80°-90°	25.1	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°	7681.7	46.8
0°-40°	11758.5	71.6
0°-60°	15682.8	95.5
0°-90°	16417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9746	9746	9746	9746	9746	
5°	9451	9732	10079	9732	9451	891
15°	8733	9480	10422	9480	8733	2470
25°	8181	8928	9646	8928	8181	3752
35°	6596	6781	6434	6781	6596	4132
45°	4645	2484	2874	2484	4645	3572
55°	2641	918	971	918	2641	2355
65°	1052	281	257	281	1052	1091
75°	295	57	48	57	295	334
85°	62	0	5	0	62	68
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°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9646.4	9636.8	9632.1	9641.7	9646.4	9665.4	9660.7	9670.1	9670.1	9675.0	9684.4
5°	9451.3	9446.4	9451.3	9451.3	9470.3	9489.3	9484.6	9498.9	9508.3	9532.2	9541.6
7.5°	9270.5	9270.5	9265.6	9284.6	9294.2	9322.8	9317.9	9341.8	9356.1	9379.8	9413.1
10°	9084.8	9084.8	9089.5	9103.8	9108.7	9151.4	9151.4	9184.7	9203.7	9227.6	9270.5
12.5°	8904.0	8904.0	8932.6	8923.0	8942.0	8975.3	8989.6	9022.9	9051.5	9099.1	9142.0
15°	8732.6	8732.6	8742.2	8765.9	8780.2	8823.1	8846.8	8885.0	8918.3	8965.9	9027.8
17.5°	8585.1	8580.4	8585.1	8613.7	8642.3	8680.3	8699.3	8746.9	8780.2	8842.1	8899.3
20°	8437.6	8447.2	8447.2	8470.9	8489.9	8537.5	8556.5	8609.0	8647.0	8704.0	8770.8
22.5°	8309.1	8304.4	8304.4	8337.7	8352.0	8394.7	8413.7	8461.3	8504.2	8551.8	8613.7
25°	8180.6	8171.0	8190.2	8194.9	8204.3	8251.9	8266.2	8299.5	8342.4	8385.3	8447.2
27.5°	7990.2	7980.8	7985.5	8004.5	8018.8	8056.8	8066.4	8099.7	8133.0	8171.0	8223.5
30°	7623.7	7614.3	7609.6	7642.9	7657.2	7685.6	7699.9	7757.1	7766.5	7809.4	7847.4
32.5°	7138.3	7133.6	7143.2	7171.6	7185.9	7224.1	7243.1	7276.4	7300.1	7324.0	7362.0
35°	6595.9	6586.3	6595.9	6624.5	6624.5	6657.8	6672.1	6686.2	6681.5	6686.2	6676.8
37.5°	6091.5	6086.6	6091.5	6105.6	6091.5	6105.6	6091.5	6062.9	6010.6	5953.4	5896.2
40°	5663.1	5667.8	5639.4	5658.4	5605.9	5596.5	5544.2	5472.7	5368.1	5253.9	5092.1
42.5°	5206.3	5192.0	5173.0	5182.4	5139.7	5106.2	5020.6	4930.3	4796.9	4606.7	4411.4
45°	4644.7	4640.0	4630.4	4625.7	4597.1	4563.8	4492.3	4387.7	4240.2	4045.1	3811.8
47.5°	4097.4	4083.1	4083.1	4087.8	4054.5	4049.8	3992.6	3902.3	3773.8	3583.4	3340.7
50°	3573.8	3569.1	3578.7	3597.7	3573.8	3564.4	3526.4	3464.5	3350.3	3188.6	2960.0
52.5°	3102.8	3098.1	3107.7	3131.4	3121.8	3131.4	3093.4	3045.8	2969.6	2812.5	2612.7
55°	2641.3	2641.3	2641.3	2669.7	2669.7	2669.7	2650.7	2622.3	2550.8	2436.6	2251.1
57.5°	2160.6	2165.3	2193.9	2198.6	2193.9	2203.5	2198.6	2170.0	2122.6	2041.7	1898.9
60°	1756.1	1756.1	1770.4	1784.7	1779.8	1784.7	1784.7	1770.4	1722.8	1656.2	1542.0
62.5°	1389.6	1403.9	1394.3	1403.9	1422.9	1403.9	1394.3	1384.9	1351.6	1308.7	1213.5
65°	1051.7	1061.3	1061.3	1066.0	1056.4	1061.3	1042.3	1028.0	1009.0	961.4	899.5
67.5°	799.6	799.6	799.6	799.6	794.7	790.0	785.3	771.0	737.7	718.7	651.9
70°	613.9	585.3	585.3	585.3	585.3	590.2	575.9	556.9	547.3	514.0	466.4
72.5°	409.2	418.8	409.2	409.2	399.8	404.5	385.5	375.9	366.5	347.5	318.9
75°	295.0	271.3	280.7	285.6	271.3	280.7	261.7	242.7	242.7	228.4	214.1
77.5°	190.4	185.7	190.4	195.1	190.4	185.7	176.1	166.5	166.5	161.8	147.5
80°	138.1	133.2	133.2	133.2	128.5	133.2	123.8	123.8	114.2	109.5	99.9
82.5°	90.5	90.5	85.6	90.5	85.6	90.5	76.2	76.2	76.2	71.3	61.9
85°	61.9	52.3	52.3	57.2	47.6	57.2	52.3	47.6	42.9	42.9	38.0
87.5°	28.6	33.3	28.6	33.3	28.6	28.6	33.3	28.6	28.6	19.0	19.0
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°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9698.7	9703.4	9703.4	9722.6	9732.0	9736.7	9736.7	9774.9	9760.6	9770.2	9779.6
5°	9560.8	9589.2	9598.8	9598.8	9651.1	9670.1	9689.1	9732.0	9736.7	9765.3	9798.6
7.5°	9427.4	9460.7	9479.9	9522.6	9555.9	9589.2	9646.4	9675.0	9703.4	9741.6	9784.3
10°	9298.9	9337.1	9375.1	9408.4	9460.7	9503.6	9541.6	9608.2	9641.7	9694.0	9751.0
12.5°	9175.3	9227.6	9260.9	9317.9	9375.1	9413.1	9470.3	9532.2	9584.5	9636.8	9703.4
15°	9065.8	9127.7	9165.7	9227.6	9289.5	9341.8	9403.7	9479.9	9517.9	9579.8	9641.7
17.5°	8946.7	9013.5	9061.1	9118.1	9194.3	9251.3	9303.8	9379.8	9427.4	9494.0	9565.5
20°	8823.1	8889.7	8946.7	9003.9	9080.1	9137.1	9199.0	9275.2	9327.5	9394.1	9451.3
22.5°	8675.6	8737.5	8799.2	8865.8	8942.0	8989.6	9061.1	9127.7	9184.7	9246.6	9303.8
25°	8485.2	8561.4	8609.0	8670.7	8732.6	8784.9	8861.1	8927.7	8975.3	9032.5	9084.8
27.5°	8261.5	8318.7	8356.7	8409.0	8470.9	8518.5	8575.5	8642.3	8689.9	8742.2	8780.2
30°	7880.7	7933.2	7966.5	8004.5	8066.4	8109.3	8156.9	8218.6	8251.9	8290.1	8323.4
32.5°	7381.0	7423.9	7442.9	7471.5	7514.4	7557.1	7595.3	7647.6	7661.9	7685.6	7685.6
35°	6657.8	6667.2	6662.5	6672.1	6691.1	6714.8	6748.1	6781.4	6800.4	6800.4	6786.3
37.5°	5810.6	5753.6	5691.7	5644.1	5629.8	5620.2	5639.4	5653.5	5672.7	5682.1	5658.4
40°	4930.3	4801.8	4663.7	4539.9	4454.3	4416.3	4402.0	4411.4	4411.4	4444.7	4444.7
42.5°	4173.6	3973.6	3769.1	3583.4	3459.6	3364.6	3321.7	3321.7	3326.5	3350.3	3364.6
45°	3545.4	3293.2	3055.2	2850.7	2679.3	2555.5	2498.5	2484.2	2479.5	2488.9	2522.2
47.5°	3064.8	2803.1	2555.5	2303.4	2122.6	1998.8	1946.5	1927.3	1908.3	1927.3	1932.2
50°	2688.9	2417.6	2155.9	1903.6	1713.2	1603.7	1537.1	1508.5	1503.8	1503.8	1513.4
52.5°	2346.1	2094.0	1832.3	1575.3	1375.3	1270.7	1208.8	1194.5	1175.5	1194.5	1194.5
55°	2022.5	1770.4	1513.4	1270.7	1104.0	994.7	937.5	918.5	908.9	923.2	923.2
57.5°	1670.5	1456.2	1218.4	999.4	832.9	756.7	713.8	690.1	685.2	694.8	685.2
60°	1370.6	1189.8	985.1	785.3	656.8	575.9	542.6	533.0	523.4	533.0	533.0
62.5°	1085.0	932.8	766.1	613.9	504.4	447.4	409.2	409.2	404.5	404.5	409.2
65°	804.3	685.2	566.3	437.8	352.2	309.3	280.7	280.7	276.0	280.7	276.0
67.5°	585.3	504.4	409.2	318.9	252.3	228.4	209.4	195.1	204.7	195.1	190.4
70°	428.4	361.6	295.0	242.7	195.1	171.4	157.1	152.2	142.8	142.8	142.8
72.5°	285.6	242.7	199.8	157.1	128.5	104.6	99.9	90.5	80.9	85.6	95.2
75°	190.4	161.8	142.8	114.2	85.6	85.6	57.2	57.2	47.6	57.2	42.9
77.5°	133.2	109.5	85.6	71.3	57.2	52.3	38.0	38.0	33.3	33.3	33.3
80°	95.2	80.9	61.9	52.3	38.0	38.0	33.3	28.6	23.7	23.7	28.6
82.5°	57.2	42.9	42.9	38.0	23.7	19.0	14.3	19.0	9.6	9.6	9.6
85°	33.3	28.6	23.7	14.3	9.6	9.6	4.7	0.0	4.7	4.7	0.0
87.5°	19.0	9.6	9.6	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.6
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°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9803.5	9798.6	9808.2	9808.2	9836.8	9831.9	9846.2	9846.2	9836.8	9841.5	9860.5
5°	9836.8	9851.0	9879.5	9903.3	9946.1	9965.2	9988.9	10012.8	10017.5	10031.8	10046.1
7.5°	9836.8	9884.3	9917.6	9960.4	10017.5	10050.8	10103.1	10146.0	10165.0	10188.7	10217.3
10°	9817.6	9865.2	9927.1	9974.7	10046.1	10098.4	10150.7	10217.3	10245.9	10283.9	10322.1
12.5°	9779.6	9831.9	9898.5	9960.4	10041.2	10088.8	10155.4	10217.3	10260.2	10312.5	10355.4
15°	9722.6	9784.3	9846.2	9908.1	9993.7	10050.8	10112.7	10184.0	10226.9	10283.9	10322.1
17.5°	9632.1	9698.7	9755.9	9812.9	9893.8	9960.4	10017.5	10084.1	10127.0	10174.6	10226.9
20°	9522.6	9584.5	9646.4	9694.0	9774.9	9831.9	9893.8	9955.6	9988.9	9998.5	10079.4
22.5°	9384.7	9427.4	9475.0	9551.2	9598.8	9651.1	9708.3	9765.3	9798.6	9851.0	9879.5
25°	9156.1	9199.0	9251.3	9284.6	9341.8	9384.7	9441.7	9503.6	9522.6	9560.8	9589.2
27.5°	8837.4	8861.1	8885.0	8913.4	8946.7	8970.6	9003.9	9032.5	9051.5	9070.5	9089.5
30°	8332.8	8332.8	8332.8	8313.8	8328.1	8342.4	8347.1	8342.4	8342.4	8337.7	8337.7
32.5°	7666.6	7628.6	7585.7	7547.7	7533.4	7514.4	7504.8	7490.5	7466.8	7452.5	7457.2
35°	6767.1	6681.5	6629.2	6581.6	6543.6	6515.0	6500.7	6486.4	6481.7	6462.7	6443.5
37.5°	5644.1	5582.2	5544.2	5515.6	5482.3	5453.7	5458.4	5463.3	5477.4	5468.0	5472.7
40°	4454.3	4440.0	4454.3	4421.0	4411.4	4421.0	4444.7	4478.2	4497.2	4516.2	4549.5
42.5°	3388.3	3412.1	3445.5	3445.5	3459.6	3478.8	3507.2	3559.7	3588.1	3621.4	3659.6
45°	2550.8	2579.4	2622.3	2636.4	2646.0	2669.7	2703.2	2745.9	2764.9	2793.5	2826.8
47.5°	1965.5	1984.5	2008.2	2032.1	2055.8	2065.4	2098.7	2098.7	2122.6	2141.6	2151.0
50°	1532.4	1551.4	1570.4	1584.7	1594.3	1608.6	1618.0	1632.3	1637.0	1646.6	1651.3
52.5°	1199.2	1223.1	1223.1	1232.5	1246.8	1261.1	1256.4	1261.1	1265.8	1265.8	1280.1
55°	937.5	937.5	951.8	951.8	961.4	956.5	961.4	961.4	961.4	961.4	966.1
57.5°	699.5	704.4	718.7	709.1	704.4	713.8	704.4	713.8	709.1	718.7	704.4
60°	537.7	537.7	542.6	542.6	547.3	547.3	547.3	542.6	542.6	537.7	537.7
62.5°	404.5	409.2	414.1	409.2	409.2	409.2	404.5	404.5	399.8	394.9	394.9
65°	271.3	266.6	276.0	266.6	271.3	271.3	266.6	271.3	257.0	261.7	257.0
67.5°	195.1	190.4	185.7	190.4	185.7	180.8	180.8	185.7	190.4	176.1	176.1
70°	128.5	133.2	128.5	133.2	138.1	138.1	133.2	128.5	133.2	123.8	128.5
72.5°	80.9	80.9	80.9	80.9	80.9	85.6	85.6	85.6	76.2	76.2	71.3
75°	38.0	52.3	42.9	38.0	52.3	52.3	47.6	47.6	42.9	42.9	42.9
77.5°	38.0	28.6	28.6	28.6	28.6	28.6	28.6	28.6	23.7	28.6	23.7
80°	19.0	19.0	19.0	14.3	19.0	19.0	23.7	19.0	19.0	14.3	23.7
82.5°	9.6	9.6	9.6	0.0	4.7	9.6	9.6	4.7	9.6	9.6	4.7
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: P248901

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9855.8	9851.0	9855.8	9860.5	9855.8	9851.0	9855.8	9860.5	9841.5	9836.8	9846.2
5°	10065.1	10065.1	10074.5	10079.4	10074.5	10065.1	10065.1	10046.1	10031.8	10017.5	10012.8
7.5°	10245.9	10255.5	10264.9	10269.6	10264.9	10255.5	10245.9	10217.3	10188.7	10165.0	10146.0
10°	10355.4	10369.7	10388.7	10398.1	10388.7	10369.7	10355.4	10322.1	10283.9	10245.9	10217.3
12.5°	10403.0	10417.3	10441.0	10436.3	10441.0	10417.3	10403.0	10355.4	10312.5	10260.2	10217.3
15°	10369.7	10388.7	10412.4	10422.0	10412.4	10388.7	10369.7	10322.1	10283.9	10226.9	10184.0
17.5°	10264.9	10293.5	10307.8	10322.1	10307.8	10293.5	10264.9	10226.9	10174.6	10127.0	10084.1
20°	10122.1	10141.3	10160.3	10165.0	10160.3	10141.3	10122.1	10079.4	9998.5	9988.9	9955.6
22.5°	9917.6	9931.9	9974.7	9960.4	9974.7	9931.9	9917.6	9879.5	9851.0	9798.6	9765.3
25°	9622.5	9636.8	9641.7	9646.4	9641.7	9636.8	9622.5	9589.2	9560.8	9522.6	9503.6
27.5°	9113.4	9113.4	9122.8	9127.7	9122.8	9113.4	9113.4	9089.5	9070.5	9051.5	9032.5
30°	8342.4	8342.4	8342.4	8366.3	8342.4	8342.4	8342.4	8337.7	8337.7	8342.4	8342.4
32.5°	7452.5	7442.9	7433.5	7442.9	7433.5	7442.9	7452.5	7457.2	7452.5	7466.8	7490.5
35°	6443.5	6438.8	6453.1	6434.1	6453.1	6438.8	6443.5	6443.5	6462.7	6481.7	6486.4
37.5°	5477.4	5468.0	5487.0	5468.0	5487.0	5468.0	5477.4	5472.7	5468.0	5477.4	5463.3
40°	4559.1	4568.5	4568.5	4606.7	4568.5	4568.5	4559.1	4549.5	4516.2	4497.2	4478.2
42.5°	3678.6	3707.2	3697.6	3726.2	3697.6	3707.2	3678.6	3659.6	3621.4	3588.1	3559.7
45°	2845.8	2865.0	2865.0	2874.4	2865.0	2865.0	2845.8	2826.8	2793.5	2764.9	2745.9
47.5°	2184.3	2184.3	2184.3	2189.2	2184.3	2184.3	2184.3	2151.0	2141.6	2122.6	2098.7
50°	1660.9	1665.6	1670.5	1675.2	1670.5	1665.6	1660.9	1651.3	1646.6	1637.0	1632.3
52.5°	1275.4	1280.1	1270.7	1280.1	1270.7	1280.1	1275.4	1280.1	1265.8	1265.8	1261.1
55°	966.1	961.4	966.1	970.8	966.1	961.4	966.1	966.1	961.4	961.4	961.4
57.5°	709.1	699.5	699.5	699.5	699.5	699.5	709.1	704.4	718.7	709.1	713.8
60°	528.3	533.0	533.0	537.7	533.0	533.0	528.3	537.7	537.7	542.6	542.6
62.5°	390.2	404.5	394.9	404.5	394.9	404.5	390.2	394.9	394.9	399.8	404.5
65°	252.3	252.3	252.3	257.0	252.3	252.3	252.3	257.0	261.7	257.0	271.3
67.5°	171.4	176.1	185.7	180.8	185.7	176.1	171.4	176.1	176.1	190.4	185.7
70°	138.1	123.8	123.8	138.1	123.8	123.8	138.1	128.5	123.8	133.2	128.5
72.5°	80.9	71.3	80.9	80.9	80.9	71.3	80.9	71.3	76.2	76.2	85.6
75°	42.9	38.0	33.3	47.6	33.3	38.0	42.9	42.9	42.9	42.9	47.6
77.5°	28.6	23.7	33.3	33.3	33.3	23.7	28.6	23.7	28.6	23.7	28.6
80°	14.3	19.0	14.3	23.7	14.3	19.0	14.3	23.7	14.3	19.0	19.0
82.5°	4.7	9.6	9.6	9.6	9.6	9.6	4.7	4.7	9.6	9.6	4.7
85°	0.0	9.6	4.7	4.7	4.7	9.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	4.7	0.0	0.0	4.7	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: P248901

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9846.2	9831.9	9836.8	9808.2	9808.2	9798.6	9803.5	9779.6	9770.2	9760.6	9774.9
5°	9988.9	9965.2	9946.1	9903.3	9879.5	9851.0	9836.8	9798.6	9765.3	9736.7	9732.0
7.5°	10103.1	10050.8	10017.5	9960.4	9917.6	9884.3	9836.8	9784.3	9741.6	9703.4	9675.0
10°	10150.7	10098.4	10046.1	9974.7	9927.1	9865.2	9817.6	9751.0	9694.0	9641.7	9608.2
12.5°	10155.4	10088.8	10041.2	9960.4	9898.5	9831.9	9779.6	9703.4	9636.8	9584.5	9532.2
15°	10112.7	10050.8	9993.7	9908.1	9846.2	9784.3	9722.6	9641.7	9579.8	9517.9	9479.9
17.5°	10017.5	9960.4	9893.8	9812.9	9755.9	9698.7	9632.1	9565.5	9494.0	9427.4	9379.8
20°	9893.8	9831.9	9774.9	9694.0	9646.4	9584.5	9522.6	9451.3	9394.1	9327.5	9275.2
22.5°	9708.3	9651.1	9598.8	9551.2	9475.0	9427.4	9384.7	9303.8	9246.6	9184.7	9127.7
25°	9441.7	9384.7	9341.8	9284.6	9251.3	9199.0	9156.1	9084.8	9032.5	8975.3	8927.7
27.5°	9003.9	8970.6	8946.7	8913.4	8885.0	8861.1	8837.4	8780.2	8742.2	8689.9	8642.3
30°	8347.1	8342.4	8328.1	8313.8	8332.8	8332.8	8332.8	8323.4	8290.1	8251.9	8218.6
32.5°	7504.8	7514.4	7533.4	7547.7	7585.7	7628.6	7666.6	7685.6	7685.6	7661.9	7647.6
35°	6500.7	6515.0	6543.6	6581.6	6629.2	6681.5	6767.1	6786.3	6800.4	6800.4	6781.4
37.5°	5458.4	5453.7	5482.3	5515.6	5544.2	5582.2	5644.1	5658.4	5682.1	5672.7	5653.5
40°	4444.7	4421.0	4411.4	4421.0	4454.3	4440.0	4454.3	4444.7	4444.7	4411.4	4411.4
42.5°	3507.2	3478.8	3459.6	3445.5	3445.5	3412.1	3388.3	3364.6	3350.3	3326.5	3321.7
45°	2703.2	2669.7	2646.0	2636.4	2622.3	2579.4	2550.8	2522.2	2488.9	2479.5	2484.2
47.5°	2098.7	2065.4	2055.8	2032.1	2008.2	1984.5	1965.5	1932.2	1927.3	1908.3	1927.3
50°	1618.0	1608.6	1594.3	1584.7	1570.4	1551.4	1532.4	1513.4	1503.8	1503.8	1508.5
52.5°	1256.4	1261.1	1246.8	1232.5	1223.1	1223.1	1199.2	1194.5	1194.5	1175.5	1194.5
55°	961.4	956.5	961.4	951.8	951.8	937.5	937.5	923.2	923.2	908.9	918.5
57.5°	704.4	713.8	704.4	709.1	718.7	704.4	699.5	685.2	694.8	685.2	690.1
60°	547.3	547.3	547.3	542.6	542.6	537.7	537.7	533.0	533.0	523.4	533.0
62.5°	404.5	409.2	409.2	409.2	414.1	409.2	404.5	409.2	404.5	404.5	409.2
65°	266.6	271.3	271.3	266.6	276.0	266.6	271.3	276.0	280.7	276.0	280.7
67.5°	180.8	180.8	185.7	190.4	185.7	190.4	195.1	190.4	195.1	204.7	195.1
70°	133.2	138.1	138.1	133.2	128.5	133.2	128.5	142.8	142.8	142.8	152.2
72.5°	85.6	85.6	80.9	80.9	80.9	80.9	80.9	95.2	85.6	80.9	90.5
75°	47.6	52.3	52.3	38.0	42.9	52.3	38.0	42.9	57.2	47.6	57.2
77.5°	28.6	28.6	28.6	28.6	28.6	28.6	38.0	33.3	33.3	33.3	38.0
80°	23.7	19.0	19.0	14.3	19.0	19.0	19.0	28.6	23.7	23.7	28.6
82.5°	9.6	9.6	4.7	0.0	9.6	9.6	9.6	9.6	9.6	9.6	19.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	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: P248901

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9736.7	9736.7	9732.0	9722.6	9703.4	9703.4	9698.7	9684.4	9675.0	9670.1	9670.1
5°	9689.1	9670.1	9651.1	9598.8	9598.8	9589.2	9560.8	9541.6	9532.2	9508.3	9498.9
7.5°	9646.4	9589.2	9555.9	9522.6	9479.9	9460.7	9427.4	9413.1	9379.8	9356.1	9341.8
10°	9541.6	9503.6	9460.7	9408.4	9375.1	9337.1	9298.9	9270.5	9227.6	9203.7	9184.7
12.5°	9470.3	9413.1	9375.1	9317.9	9260.9	9227.6	9175.3	9142.0	9099.1	9051.5	9022.9
15°	9403.7	9341.8	9289.5	9227.6	9165.7	9127.7	9065.8	9027.8	8965.9	8918.3	8885.0
17.5°	9303.8	9251.3	9194.3	9118.1	9061.1	9013.5	8946.7	8899.3	8842.1	8780.2	8746.9
20°	9199.0	9137.1	9080.1	9003.9	8946.7	8889.7	8823.1	8770.8	8704.0	8647.0	8609.0
22.5°	9061.1	8989.6	8942.0	8865.8	8799.2	8737.5	8675.6	8613.7	8551.8	8504.2	8461.3
25°	8861.1	8784.9	8732.6	8670.7	8609.0	8561.4	8485.2	8447.2	8385.3	8342.4	8299.5
27.5°	8575.5	8518.5	8470.9	8409.0	8356.7	8318.7	8261.5	8223.5	8171.0	8133.0	8099.7
30°	8156.9	8109.3	8066.4	8004.5	7966.5	7933.2	7880.7	7847.4	7809.4	7766.5	7757.1
32.5°	7595.3	7557.1	7514.4	7471.5	7442.9	7423.9	7381.0	7362.0	7324.0	7300.1	7276.4
35°	6748.1	6714.8	6691.1	6672.1	6662.5	6667.2	6657.8	6676.8	6686.2	6681.5	6686.2
37.5°	5639.4	5620.2	5629.8	5644.1	5691.7	5753.6	5810.6	5896.2	5953.4	6010.6	6062.9
40°	4402.0	4416.3	4454.3	4539.9	4663.7	4801.8	4930.3	5092.1	5253.9	5368.1	5472.7
42.5°	3321.7	3364.6	3459.6	3583.4	3769.1	3973.6	4173.6	4411.4	4606.7	4796.9	4930.3
45°	2498.5	2555.5	2679.3	2850.7	3055.2	3293.2	3545.4	3811.8	4045.1	4240.2	4387.7
47.5°	1946.5	1998.8	2122.6	2303.4	2555.5	2803.1	3064.8	3340.7	3583.4	3773.8	3902.3
50°	1537.1	1603.7	1713.2	1903.6	2155.9	2417.6	2688.9	2960.0	3188.6	3350.3	3464.5
52.5°	1208.8	1270.7	1375.3	1575.3	1832.3	2094.0	2346.1	2612.7	2812.5	2969.6	3045.8
55°	937.5	994.7	1104.0	1270.7	1513.4	1770.4	2022.5	2251.1	2436.6	2550.8	2622.3
57.5°	713.8	756.7	832.9	999.4	1218.4	1456.2	1670.5	1898.9	2041.7	2122.6	2170.0
60°	542.6	575.9	656.8	785.3	985.1	1189.8	1370.6	1542.0	1656.2	1722.8	1770.4
62.5°	409.2	447.4	504.4	613.9	766.1	932.8	1085.0	1213.5	1308.7	1351.6	1384.9
65°	280.7	309.3	352.2	437.8	566.3	685.2	804.3	899.5	961.4	1009.0	1028.0
67.5°	209.4	228.4	252.3	318.9	409.2	504.4	585.3	651.9	718.7	737.7	771.0
70°	157.1	171.4	195.1	242.7	295.0	361.6	428.4	466.4	514.0	547.3	556.9
72.5°	99.9	104.6	128.5	157.1	199.8	242.7	285.6	318.9	347.5	366.5	375.9
75°	57.2	85.6	85.6	114.2	142.8	161.8	190.4	214.1	228.4	242.7	242.7
77.5°	38.0	52.3	57.2	71.3	85.6	109.5	133.2	147.5	161.8	166.5	166.5
80°	33.3	38.0	38.0	52.3	61.9	80.9	95.2	99.9	109.5	114.2	123.8
82.5°	14.3	19.0	23.7	38.0	42.9	42.9	57.2	61.9	71.3	76.2	76.2
85°	4.7	9.6	9.6	14.3	23.7	28.6	33.3	38.0	42.9	42.9	47.6
87.5°	4.7	4.7	0.0	4.7	9.6	9.6	19.0	19.0	19.0	28.6	28.6
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: P248901

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3	9746.3
2.5°	9660.7	9665.4	9646.4	9641.7	9632.1	9636.8	9646.4
5°	9484.6	9489.3	9470.3	9451.3	9451.3	9446.4	9451.3
7.5°	9317.9	9322.8	9294.2	9284.6	9265.6	9270.5	9270.5
10°	9151.4	9151.4	9108.7	9103.8	9089.5	9084.8	9084.8
12.5°	8989.6	8975.3	8942.0	8923.0	8932.6	8904.0	8904.0
15°	8846.8	8823.1	8780.2	8765.9	8742.2	8732.6	8732.6
17.5°	8699.3	8680.3	8642.3	8613.7	8585.1	8580.4	8585.1
20°	8556.5	8537.5	8489.9	8470.9	8447.2	8447.2	8437.6
22.5°	8413.7	8394.7	8352.0	8337.7	8304.4	8304.4	8309.1
25°	8266.2	8251.9	8204.3	8194.9	8190.2	8171.0	8180.6
27.5°	8066.4	8056.8	8018.8	8004.5	7985.5	7980.8	7990.2
30°	7699.9	7685.6	7657.2	7642.9	7609.6	7614.3	7623.7
32.5°	7243.1	7224.1	7185.9	7171.6	7143.2	7133.6	7138.3
35°	6672.1	6657.8	6624.5	6624.5	6595.9	6586.3	6595.9
37.5°	6091.5	6105.6	6091.5	6105.6	6091.5	6086.6	6091.5
40°	5544.2	5596.5	5605.9	5658.4	5639.4	5667.8	5663.1
42.5°	5020.6	5106.2	5139.7	5182.4	5173.0	5192.0	5206.3
45°	4492.3	4563.8	4597.1	4625.7	4630.4	4640.0	4644.7
47.5°	3992.6	4049.8	4054.5	4087.8	4083.1	4083.1	4097.4
50°	3526.4	3564.4	3573.8	3597.7	3578.7	3569.1	3573.8
52.5°	3093.4	3131.4	3121.8	3131.4	3107.7	3098.1	3102.8
55°	2650.7	2669.7	2669.7	2669.7	2641.3	2641.3	2641.3
57.5°	2198.6	2203.5	2193.9	2198.6	2193.9	2165.3	2160.6
60°	1784.7	1784.7	1779.8	1784.7	1770.4	1756.1	1756.1
62.5°	1394.3	1403.9	1422.9	1403.9	1394.3	1403.9	1389.6
65°	1042.3	1061.3	1056.4	1066.0	1061.3	1061.3	1051.7
67.5°	785.3	790.0	794.7	799.6	799.6	799.6	799.6
70°	575.9	590.2	585.3	585.3	585.3	585.3	613.9
72.5°	385.5	404.5	399.8	409.2	409.2	418.8	409.2
75°	261.7	280.7	271.3	285.6	280.7	271.3	295.0
77.5°	176.1	185.7	190.4	195.1	190.4	185.7	190.4
80°	123.8	133.2	128.5	133.2	133.2	133.2	138.1
82.5°	76.2	90.5	85.6	90.5	85.6	90.5	90.5
85°	52.3	57.2	47.6	57.2	52.3	52.3	61.9
87.5°	33.3	28.6	28.6	33.3	28.6	33.3	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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