

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: P248847

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248847  
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 ER8B200950 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18458.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

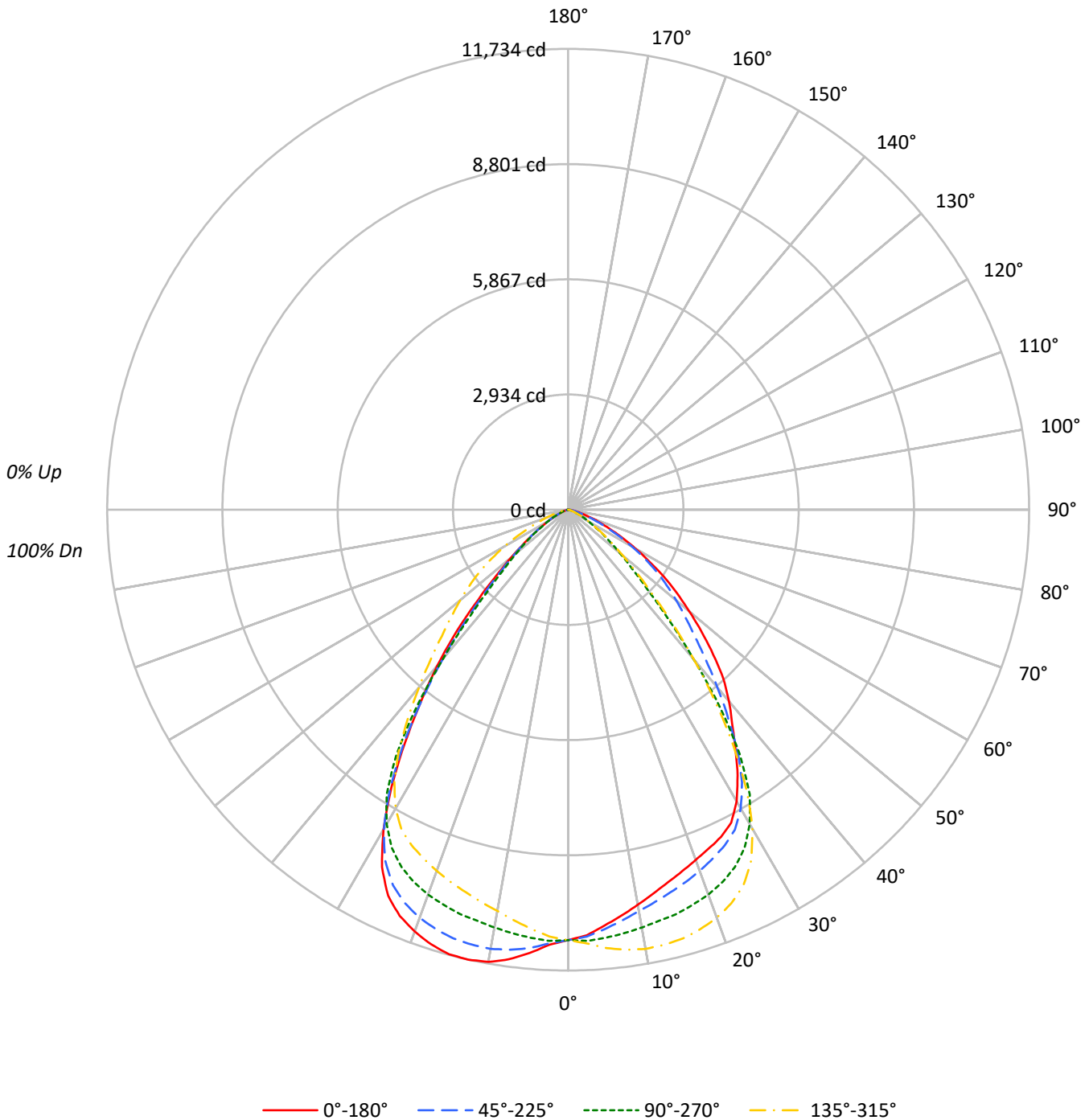
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	337901	337901	337901	337901
5°	328928	338697	350787	338697
10°	319827	338254	366066	338254
15°	313437	340260	374077	340260
20°	311306	342208	375040	342208
25°	312940	341520	369012	341520
30°	305203	329017	334931	329017
35°	279166	287018	272318	287018
40°	256305	199656	208491	199656
45°	227736	121800	140932	121800
50°	192764	81362	90352	81362
55°	159650	55519	58681	55519
60°	121766	36960	37281	36960
65°	86274	23028	21080	23028
70°	62228	15426	14002	15426
75°	39520	7661	6374	7661
80°	27578	5718	4724	5718
85°	24625	0	1875	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1043.0	5.7
10°-20°	3020.3	16.4
20°-30°	4573.4	24.8
30°-40°	4583.6	24.8
40°-50°	2878.3	15.6
50°-60°	1533.8	8.3
60°-70°	630.7	3.4
70°-80°	166.6	0.9
80°-90°	28.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8636.7	46.8
0°-40°	13220.3	71.6
0°-60°	17632.4	95.5
0°-90°	18458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10958	10958	10958	10958	10958	
5°	10626	10942	11332	10942	10626	###
15°	9818	10658	11718	10658	9818	2777
25°	9198	10038	10846	10038	9198	4218
35°	7416	7624	7234	7624	7416	4646
45°	5222	2793	3232	2793	5222	4016
55°	2970	1033	1092	1033	2970	2648
65°	1182	316	289	316	1182	1227
75°	332	64	54	64	332	376
85°	70	0	5	0	70	76
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°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	10845.6	10834.8	10829.5	10840.3	10845.6	10867.0	10861.7	10872.3	10872.3	10877.8	10888.3
5°	10626.3	10620.8	10626.3	10626.3	10647.6	10669.0	10663.7	10679.8	10690.3	10717.2	10727.8
7.5°	10423.0	10423.0	10417.5	10438.8	10449.6	10481.8	10476.3	10503.1	10519.2	10545.9	10583.3
10°	10214.2	10214.2	10219.5	10235.6	10241.1	10289.1	10289.1	10326.5	10347.9	10374.8	10423.0
12.5°	10010.9	10010.9	10043.1	10032.3	10053.7	10091.1	10107.2	10144.6	10176.8	10230.3	10278.5
15°	9818.2	9818.2	9829.0	9855.7	9871.7	9920.0	9946.6	9989.6	10027.0	10080.5	10150.1
17.5°	9652.4	9647.1	9652.4	9684.5	9716.7	9759.4	9780.8	9834.3	9871.7	9941.3	10005.6
20°	9486.6	9497.3	9497.3	9524.0	9545.4	9598.9	9620.2	9679.3	9722.0	9786.1	9861.2
22.5°	9342.1	9336.8	9336.8	9374.2	9390.3	9438.3	9459.7	9513.2	9561.4	9614.9	9684.5
25°	9197.6	9186.8	9208.4	9213.7	9224.3	9277.8	9293.8	9331.3	9379.5	9427.7	9497.3
27.5°	8983.5	8973.0	8978.3	8999.6	9015.7	9058.4	9069.2	9106.6	9144.1	9186.8	9245.8
30°	8571.5	8560.9	8555.6	8593.1	8609.1	8641.1	8657.2	8721.5	8732.0	8780.3	8823.0
32.5°	8025.7	8020.5	8031.2	8063.2	8079.3	8122.2	8143.6	8181.0	8207.7	8234.5	8277.2
35°	7415.9	7405.1	7415.9	7448.1	7448.1	7485.5	7501.6	7517.4	7512.2	7517.4	7506.9
37.5°	6848.8	6843.3	6848.8	6864.7	6848.8	6864.7	6848.8	6816.7	6757.9	6693.6	6629.2
40°	6367.2	6372.5	6340.5	6361.9	6302.9	6292.3	6233.5	6153.1	6035.5	5907.1	5725.2
42.5°	5853.6	5837.5	5816.1	5826.7	5778.7	5741.0	5644.8	5543.3	5393.3	5179.4	4959.9
45°	5222.2	5216.9	5206.1	5200.8	5168.7	5131.2	5050.8	4933.2	4767.4	4548.0	4285.7
47.5°	4606.8	4590.8	4590.8	4596.0	4558.6	4553.3	4489.0	4387.5	4243.0	4028.9	3756.1
50°	4018.2	4012.9	4023.7	4045.0	4018.2	4007.6	3964.9	3895.3	3766.9	3585.0	3327.9
52.5°	3488.5	3483.2	3494.0	3520.7	3509.9	3520.7	3477.9	3424.4	3338.7	3162.1	2937.5
55°	2969.6	2969.6	2969.6	3001.6	3001.6	3001.6	2980.2	2948.3	2867.9	2739.5	2530.9
57.5°	2429.2	2434.5	2466.6	2471.9	2466.6	2477.4	2471.9	2439.7	2386.4	2295.5	2134.9
60°	1974.4	1974.4	1990.5	2006.5	2001.0	2006.5	2006.5	1990.5	1937.0	1862.1	1733.7
62.5°	1562.3	1578.4	1567.6	1578.4	1599.8	1578.4	1567.6	1557.0	1519.6	1471.4	1364.3
65°	1182.4	1193.2	1193.2	1198.5	1187.7	1193.2	1171.9	1155.8	1134.4	1080.9	1011.3
67.5°	899.0	899.0	899.0	899.0	893.5	888.2	882.9	866.8	829.4	808.0	732.9
70°	690.2	658.1	658.1	658.1	658.1	663.6	647.5	626.1	615.3	577.9	524.4
72.5°	460.1	470.9	460.1	460.1	449.5	454.8	433.4	422.6	412.1	390.7	358.5
75°	331.7	305.0	315.6	321.1	305.0	315.6	294.2	272.9	272.9	256.8	240.7
77.5°	214.1	208.8	214.1	219.4	214.1	208.8	198.0	187.2	187.2	181.9	165.8
80°	155.3	149.8	149.8	149.8	144.5	149.8	139.2	139.2	128.4	123.1	112.3
82.5°	101.7	101.7	96.2	101.7	96.2	101.7	85.7	85.7	85.7	80.2	69.6
85°	69.6	58.8	58.8	64.3	53.5	64.3	58.8	53.5	48.2	48.2	42.7
87.5°	32.2	37.4	32.2	37.4	32.2	32.2	37.4	32.2	32.2	21.4	21.4
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°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	10904.4	10909.7	10909.7	10931.3	10941.9	10947.1	10947.1	10990.1	10974.0	10984.8	10995.4
5°	10749.4	10781.3	10792.1	10792.1	10850.9	10872.3	10893.6	10941.9	10947.1	10979.3	11016.7
7.5°	10599.4	10636.8	10658.4	10706.4	10743.9	10781.3	10845.6	10877.8	10909.7	10952.6	11000.7
10°	10454.9	10497.9	10540.6	10578.0	10636.8	10685.1	10727.8	10802.7	10840.3	10899.1	10963.2
12.5°	10315.9	10374.8	10412.2	10476.3	10540.6	10583.3	10647.6	10717.2	10776.0	10834.8	10909.7
15°	10192.8	10262.4	10305.2	10374.8	10444.3	10503.1	10572.7	10658.4	10701.1	10770.7	10840.3
17.5°	10058.9	10134.0	10187.6	10251.6	10337.3	10401.4	10460.4	10545.9	10599.4	10674.3	10754.7
20°	9920.0	9994.8	10058.9	10123.2	10208.9	10273.0	10342.6	10428.3	10487.1	10562.0	10626.3
22.5°	9754.1	9823.7	9893.1	9968.0	10053.7	10107.2	10187.6	10262.4	10326.5	10396.1	10460.4
25°	9540.1	9625.7	9679.3	9748.6	9818.2	9877.0	9962.7	10037.6	10091.1	10155.4	10214.2
27.5°	9288.6	9352.9	9395.6	9454.4	9524.0	9577.5	9641.6	9716.7	9770.2	9829.0	9871.7
30°	8860.4	8919.5	8956.9	8999.6	9069.2	9117.4	9171.0	9240.3	9277.8	9320.7	9358.2
32.5°	8298.6	8346.8	8368.2	8400.4	8448.6	8496.6	8539.5	8598.4	8614.4	8641.1	8641.1
35°	7485.5	7496.1	7490.8	7501.6	7523.0	7549.6	7587.0	7624.5	7645.8	7645.8	7630.0
37.5°	6533.0	6468.9	6399.3	6345.8	6329.7	6318.9	6340.5	6356.4	6378.0	6388.5	6361.9
40°	5543.3	5398.8	5243.5	5104.3	5008.1	4965.4	4949.3	4959.9	4959.9	4997.3	4997.3
42.5°	4692.5	4467.7	4237.7	4028.9	3889.8	3782.9	3734.7	3734.7	3740.0	3766.9	3782.9
45°	3986.2	3702.6	3435.0	3205.1	3012.4	2873.2	2809.1	2793.0	2787.7	2798.3	2835.7
47.5°	3445.8	3151.5	2873.2	2589.7	2386.4	2247.3	2188.5	2166.9	2145.5	2166.9	2172.4
50°	3023.1	2718.1	2423.9	2140.2	1926.2	1803.1	1728.2	1696.0	1690.7	1690.7	1701.5
52.5°	2637.7	2354.3	2060.1	1771.1	1546.3	1428.7	1359.1	1343.0	1321.6	1343.0	1343.0
55°	2273.9	1990.5	1701.5	1428.7	1241.2	1118.3	1054.0	1032.7	1021.9	1038.0	1038.0
57.5°	1878.1	1637.2	1369.9	1123.6	936.4	850.8	802.5	775.9	770.4	781.2	770.4
60°	1541.0	1337.7	1107.6	882.9	738.4	647.5	610.0	599.3	588.5	599.3	599.3
62.5°	1219.9	1048.8	861.3	690.2	567.1	503.0	460.1	460.1	454.8	454.8	460.1
65°	904.3	770.4	636.7	492.2	396.0	347.7	315.6	315.6	310.3	315.6	310.3
67.5°	658.1	567.1	460.1	358.5	283.7	256.8	235.4	219.4	230.1	219.4	214.1
70°	481.7	406.6	331.7	272.9	219.4	192.7	176.6	171.1	160.6	160.6	160.6
72.5°	321.1	272.9	224.6	176.6	144.5	117.6	112.3	101.7	91.0	96.2	107.0
75°	214.1	181.9	160.6	128.4	96.2	96.2	64.3	64.3	53.5	64.3	48.2
77.5°	149.8	123.1	96.2	80.2	64.3	58.8	42.7	42.7	37.4	37.4	37.4
80°	107.0	91.0	69.6	58.8	42.7	42.7	37.4	32.2	26.6	26.6	32.2
82.5°	64.3	48.2	48.2	42.7	26.6	21.4	16.1	21.4	10.8	10.8	10.8
85°	37.4	32.2	26.6	16.1	10.8	10.8	5.3	0.0	5.3	5.3	0.0
87.5°	21.4	10.8	10.8	5.3	0.0	5.3	5.3	0.0	0.0	0.0	10.8
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°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	11022.2	11016.7	11027.5	11027.5	11059.7	11054.2	11070.2	11070.2	11059.7	11065.0	11086.3
5°	11059.7	11075.8	11107.7	11134.6	11182.6	11204.2	11230.8	11257.7	11263.0	11279.0	11295.1
7.5°	11059.7	11113.2	11150.6	11198.6	11263.0	11300.4	11359.2	11407.4	11428.8	11455.4	11487.6
10°	11038.1	11091.6	11161.2	11214.7	11295.1	11353.9	11412.7	11487.6	11519.7	11562.5	11605.4
12.5°	10995.4	11054.2	11129.1	11198.6	11289.6	11343.1	11418.0	11487.6	11535.8	11594.6	11642.9
15°	10931.3	11000.7	11070.2	11139.8	11236.1	11300.4	11370.0	11450.2	11498.4	11562.5	11605.4
17.5°	10829.5	10904.4	10968.7	11032.8	11123.8	11198.6	11263.0	11337.8	11386.1	11439.6	11498.4
20°	10706.4	10776.0	10845.6	10899.1	10990.1	11054.2	11123.8	11193.4	11230.8	11241.6	11332.5
22.5°	10551.4	10599.4	10652.9	10738.6	10792.1	10850.9	10915.2	10979.3	11016.7	11075.8	11107.7
25°	10294.4	10342.6	10401.4	10438.8	10503.1	10551.4	10615.5	10685.1	10706.4	10749.4	10781.3
27.5°	9936.0	9962.7	9989.6	10021.5	10058.9	10085.8	10123.2	10155.4	10176.8	10198.1	10219.5
30°	9368.7	9368.7	9368.7	9347.4	9363.4	9379.5	9384.8	9379.5	9379.5	9374.2	9374.2
32.5°	8619.7	8577.0	8528.8	8486.0	8470.0	8448.6	8437.8	8421.7	8395.1	8379.0	8384.3
35°	7608.4	7512.2	7453.4	7399.8	7357.1	7325.0	7308.9	7292.8	7287.5	7266.2	7244.6
37.5°	6345.8	6276.2	6233.5	6201.3	6163.9	6131.7	6137.0	6142.5	6158.4	6147.8	6153.1
40°	5008.1	4992.0	5008.1	4970.7	4959.9	4970.7	4997.3	5035.0	5056.3	5077.7	5115.1
42.5°	3809.6	3836.2	3873.9	3873.9	3889.8	3911.3	3943.3	4002.3	4034.2	4071.7	4114.6
45°	2867.9	2900.0	2948.3	2964.1	2974.9	3001.6	3039.2	3087.2	3108.6	3140.7	3178.2
47.5°	2209.8	2231.2	2257.8	2284.7	2311.3	2322.1	2359.6	2359.6	2386.4	2407.8	2418.4
50°	1722.9	1744.2	1765.6	1781.7	1792.5	1808.6	1819.1	1835.2	1840.5	1851.3	1856.6
52.5°	1348.3	1375.1	1375.1	1385.7	1401.8	1417.9	1412.6	1417.9	1423.1	1423.1	1439.2
55°	1054.0	1054.0	1070.1	1070.1	1080.9	1075.4	1080.9	1080.9	1080.9	1080.9	1086.2
57.5°	786.5	792.0	808.0	797.2	792.0	802.5	792.0	802.5	797.2	808.0	792.0
60°	604.5	604.5	610.0	610.0	615.3	615.3	615.3	610.0	610.0	604.5	604.5
62.5°	454.8	460.1	465.6	460.1	460.1	460.1	454.8	454.8	449.5	444.0	444.0
65°	305.0	299.7	310.3	299.7	305.0	305.0	299.7	305.0	288.9	294.2	288.9
67.5°	219.4	214.1	208.8	214.1	208.8	203.3	203.3	208.8	214.1	198.0	198.0
70°	144.5	149.8	144.5	149.8	155.3	155.3	149.8	144.5	149.8	139.2	144.5
72.5°	91.0	91.0	91.0	91.0	91.0	96.2	96.2	96.2	85.7	85.7	80.2
75°	42.7	58.8	48.2	42.7	58.8	58.8	53.5	53.5	48.2	48.2	48.2
77.5°	42.7	32.2	32.2	32.2	32.2	32.2	32.2	32.2	26.6	32.2	26.6
80°	21.4	21.4	21.4	16.1	21.4	21.4	26.6	21.4	21.4	16.1	26.6
82.5°	10.8	10.8	10.8	0.0	5.3	10.8	10.8	5.3	10.8	10.8	5.3
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: P248847

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	11081.0	11075.8	11081.0	11086.3	11081.0	11075.8	11081.0	11086.3	11065.0	11059.7	11070.2
5°	11316.5	11316.5	11327.0	11332.5	11327.0	11316.5	11316.5	11295.1	11279.0	11263.0	11257.7
7.5°	11519.7	11530.5	11541.1	11546.4	11541.1	11530.5	11519.7	11487.6	11455.4	11428.8	11407.4
10°	11642.9	11658.9	11680.3	11690.9	11680.3	11658.9	11642.9	11605.4	11562.5	11519.7	11487.6
12.5°	11696.4	11712.4	11739.1	11733.8	11739.1	11712.4	11696.4	11642.9	11594.6	11535.8	11487.6
15°	11658.9	11680.3	11706.9	11717.7	11706.9	11680.3	11658.9	11605.4	11562.5	11498.4	11450.2
17.5°	11541.1	11573.3	11589.3	11605.4	11589.3	11573.3	11541.1	11498.4	11439.6	11386.1	11337.8
20°	11380.6	11402.1	11423.5	11428.8	11423.5	11402.1	11380.6	11332.5	11241.6	11230.8	11193.4
22.5°	11150.6	11166.7	11214.7	11198.6	11214.7	11166.7	11150.6	11107.7	11075.8	11016.7	10979.3
25°	10818.7	10834.8	10840.3	10845.6	10840.3	10834.8	10818.7	10781.3	10749.4	10706.4	10685.1
27.5°	10246.4	10246.4	10256.9	10262.4	10256.9	10246.4	10246.4	10219.5	10198.1	10176.8	10155.4
30°	9379.5	9379.5	9379.5	9406.4	9379.5	9379.5	9379.5	9374.2	9374.2	9379.5	9379.5
32.5°	8379.0	8368.2	8357.6	8368.2	8357.6	8368.2	8379.0	8384.3	8379.0	8395.1	8421.7
35°	7244.6	7239.3	7255.4	7234.0	7255.4	7239.3	7244.6	7244.6	7266.2	7287.5	7292.8
37.5°	6158.4	6147.8	6169.2	6147.8	6169.2	6147.8	6158.4	6153.1	6147.8	6158.4	6142.5
40°	5125.9	5136.5	5136.5	5179.4	5136.5	5136.5	5125.9	5115.1	5077.7	5056.3	5035.0
42.5°	4136.0	4168.1	4157.3	4189.5	4157.3	4168.1	4136.0	4114.6	4071.7	4034.2	4002.3
45°	3199.5	3221.1	3221.1	3231.7	3221.1	3221.1	3199.5	3178.2	3140.7	3108.6	3087.2
47.5°	2455.8	2455.8	2455.8	2461.3	2455.8	2455.8	2455.8	2418.4	2407.8	2386.4	2359.6
50°	1867.4	1872.6	1878.1	1883.4	1878.1	1872.6	1867.4	1856.6	1851.3	1840.5	1835.2
52.5°	1433.9	1439.2	1428.7	1439.2	1428.7	1439.2	1433.9	1439.2	1423.1	1423.1	1417.9
55°	1086.2	1080.9	1086.2	1091.5	1086.2	1080.9	1086.2	1086.2	1080.9	1080.9	1080.9
57.5°	797.2	786.5	786.5	786.5	786.5	786.5	797.2	792.0	808.0	797.2	802.5
60°	594.0	599.3	599.3	604.5	599.3	599.3	594.0	604.5	604.5	610.0	610.0
62.5°	438.7	454.8	444.0	454.8	444.0	454.8	438.7	444.0	444.0	449.5	454.8
65°	283.7	283.7	283.7	288.9	283.7	283.7	283.7	288.9	294.2	288.9	305.0
67.5°	192.7	198.0	208.8	203.3	208.8	198.0	192.7	198.0	198.0	214.1	208.8
70°	155.3	139.2	139.2	155.3	139.2	139.2	155.3	144.5	139.2	149.8	144.5
72.5°	91.0	80.2	91.0	91.0	91.0	80.2	91.0	80.2	85.7	85.7	96.2
75°	48.2	42.7	37.4	53.5	37.4	42.7	48.2	48.2	48.2	48.2	53.5
77.5°	32.2	26.6	37.4	37.4	37.4	26.6	32.2	26.6	32.2	26.6	32.2
80°	16.1	21.4	16.1	26.6	16.1	21.4	16.1	26.6	16.1	21.4	21.4
82.5°	5.3	10.8	10.8	10.8	10.8	10.8	5.3	5.3	10.8	10.8	5.3
85°	0.0	10.8	5.3	5.3	5.3	10.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	0.0	0.0	5.3	0.0	0.0	5.3	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: P248847

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	11070.2	11054.2	11059.7	11027.5	11027.5	11016.7	11022.2	10995.4	10984.8	10974.0	10990.1
5°	11230.8	11204.2	11182.6	11134.6	11107.7	11075.8	11059.7	11016.7	10979.3	10947.1	10941.9
7.5°	11359.2	11300.4	11263.0	11198.6	11150.6	11113.2	11059.7	11000.7	10952.6	10909.7	10877.8
10°	11412.7	11353.9	11295.1	11214.7	11161.2	11091.6	11038.1	10963.2	10899.1	10840.3	10802.7
12.5°	11418.0	11343.1	11289.6	11198.6	11129.1	11054.2	10995.4	10909.7	10834.8	10776.0	10717.2
15°	11370.0	11300.4	11236.1	11139.8	11070.2	11000.7	10931.3	10840.3	10770.7	10701.1	10658.4
17.5°	11263.0	11198.6	11123.8	11032.8	10968.7	10904.4	10829.5	10754.7	10674.3	10599.4	10545.9
20°	11123.8	11054.2	10990.1	10899.1	10845.6	10776.0	10706.4	10626.3	10562.0	10487.1	10428.3
22.5°	10915.2	10850.9	10792.1	10738.6	10652.9	10599.4	10551.4	10460.4	10396.1	10326.5	10262.4
25°	10615.5	10551.4	10503.1	10438.8	10401.4	10342.6	10294.4	10214.2	10155.4	10091.1	10037.6
27.5°	10123.2	10085.8	10058.9	10021.5	9989.6	9962.7	9936.0	9871.7	9829.0	9770.2	9716.7
30°	9384.8	9379.5	9363.4	9347.4	9368.7	9368.7	9368.7	9358.2	9320.7	9277.8	9240.3
32.5°	8437.8	8448.6	8470.0	8486.0	8528.8	8577.0	8619.7	8641.1	8641.1	8614.4	8598.4
35°	7308.9	7325.0	7357.1	7399.8	7453.4	7512.2	7608.4	7630.0	7645.8	7645.8	7624.5
37.5°	6137.0	6131.7	6163.9	6201.3	6233.5	6276.2	6345.8	6361.9	6388.5	6378.0	6356.4
40°	4997.3	4970.7	4959.9	4970.7	5008.1	4992.0	5008.1	4997.3	4997.3	4959.9	4959.9
42.5°	3943.3	3911.3	3889.8	3873.9	3873.9	3836.2	3809.6	3782.9	3766.9	3740.0	3734.7
45°	3039.2	3001.6	2974.9	2964.1	2948.3	2900.0	2867.9	2835.7	2798.3	2787.7	2793.0
47.5°	2359.6	2322.1	2311.3	2284.7	2257.8	2231.2	2209.8	2172.4	2166.9	2145.5	2166.9
50°	1819.1	1808.6	1792.5	1781.7	1765.6	1744.2	1722.9	1701.5	1690.7	1690.7	1696.0
52.5°	1412.6	1417.9	1401.8	1385.7	1375.1	1375.1	1348.3	1343.0	1343.0	1321.6	1343.0
55°	1080.9	1075.4	1080.9	1070.1	1070.1	1054.0	1054.0	1038.0	1038.0	1021.9	1032.7
57.5°	792.0	802.5	792.0	797.2	808.0	792.0	786.5	770.4	781.2	770.4	775.9
60°	615.3	615.3	615.3	610.0	610.0	604.5	604.5	599.3	599.3	588.5	599.3
62.5°	454.8	460.1	460.1	460.1	465.6	460.1	454.8	460.1	454.8	454.8	460.1
65°	299.7	305.0	305.0	299.7	310.3	299.7	305.0	310.3	315.6	310.3	315.6
67.5°	203.3	203.3	208.8	214.1	208.8	214.1	219.4	214.1	219.4	230.1	219.4
70°	149.8	155.3	155.3	149.8	144.5	149.8	144.5	160.6	160.6	160.6	171.1
72.5°	96.2	96.2	91.0	91.0	91.0	91.0	91.0	107.0	96.2	91.0	101.7
75°	53.5	58.8	58.8	42.7	48.2	58.8	42.7	48.2	64.3	53.5	64.3
77.5°	32.2	32.2	32.2	32.2	32.2	32.2	42.7	37.4	37.4	37.4	42.7
80°	26.6	21.4	21.4	16.1	21.4	21.4	21.4	32.2	26.6	26.6	32.2
82.5°	10.8	10.8	5.3	0.0	10.8	10.8	10.8	10.8	10.8	10.8	21.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	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: P248847

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	10947.1	10947.1	10941.9	10931.3	10909.7	10909.7	10904.4	10888.3	10877.8	10872.3	10872.3
5°	10893.6	10872.3	10850.9	10792.1	10792.1	10781.3	10749.4	10727.8	10717.2	10690.3	10679.8
7.5°	10845.6	10781.3	10743.9	10706.4	10658.4	10636.8	10599.4	10583.3	10545.9	10519.2	10503.1
10°	10727.8	10685.1	10636.8	10578.0	10540.6	10497.9	10454.9	10423.0	10374.8	10347.9	10326.5
12.5°	10647.6	10583.3	10540.6	10476.3	10412.2	10374.8	10315.9	10278.5	10230.3	10176.8	10144.6
15°	10572.7	10503.1	10444.3	10374.8	10305.2	10262.4	10192.8	10150.1	10080.5	10027.0	9989.6
17.5°	10460.4	10401.4	10337.3	10251.6	10187.6	10134.0	10058.9	10005.6	9941.3	9871.7	9834.3
20°	10342.6	10273.0	10208.9	10123.2	10058.9	9994.8	9920.0	9861.2	9786.1	9722.0	9679.3
22.5°	10187.6	10107.2	10053.7	9968.0	9893.1	9823.7	9754.1	9684.5	9614.9	9561.4	9513.2
25°	9962.7	9877.0	9818.2	9748.6	9679.3	9625.7	9540.1	9497.3	9427.7	9379.5	9331.3
27.5°	9641.6	9577.5	9524.0	9454.4	9395.6	9352.9	9288.6	9245.8	9186.8	9144.1	9106.6
30°	9171.0	9117.4	9069.2	8999.6	8956.9	8919.5	8860.4	8823.0	8780.3	8732.0	8721.5
32.5°	8539.5	8496.6	8448.6	8400.4	8368.2	8346.8	8298.6	8277.2	8234.5	8207.7	8181.0
35°	7587.0	7549.6	7523.0	7501.6	7490.8	7496.1	7485.5	7506.9	7517.4	7512.2	7517.4
37.5°	6340.5	6318.9	6329.7	6345.8	6399.3	6468.9	6533.0	6629.2	6693.6	6757.9	6816.7
40°	4949.3	4965.4	5008.1	5104.3	5243.5	5398.8	5543.3	5725.2	5907.1	6035.5	6153.1
42.5°	3734.7	3782.9	3889.8	4028.9	4237.7	4467.7	4692.5	4959.9	5179.4	5393.3	5543.3
45°	2809.1	2873.2	3012.4	3205.1	3435.0	3702.6	3986.2	4285.7	4548.0	4767.4	4933.2
47.5°	2188.5	2247.3	2386.4	2589.7	2873.2	3151.5	3445.8	3756.1	4028.9	4243.0	4387.5
50°	1728.2	1803.1	1926.2	2140.2	2423.9	2718.1	3023.1	3327.9	3585.0	3766.9	3895.3
52.5°	1359.1	1428.7	1546.3	1771.1	2060.1	2354.3	2637.7	2937.5	3162.1	3338.7	3424.4
55°	1054.0	1118.3	1241.2	1428.7	1701.5	1990.5	2273.9	2530.9	2739.5	2867.9	2948.3
57.5°	802.5	850.8	936.4	1123.6	1369.9	1637.2	1878.1	2134.9	2295.5	2386.4	2439.7
60°	610.0	647.5	738.4	882.9	1107.6	1337.7	1541.0	1733.7	1862.1	1937.0	1990.5
62.5°	460.1	503.0	567.1	690.2	861.3	1048.8	1219.9	1364.3	1471.4	1519.6	1557.0
65°	315.6	347.7	396.0	492.2	636.7	770.4	904.3	1011.3	1080.9	1134.4	1155.8
67.5°	235.4	256.8	283.7	358.5	460.1	567.1	658.1	732.9	808.0	829.4	866.8
70°	176.6	192.7	219.4	272.9	331.7	406.6	481.7	524.4	577.9	615.3	626.1
72.5°	112.3	117.6	144.5	176.6	224.6	272.9	321.1	358.5	390.7	412.1	422.6
75°	64.3	96.2	96.2	128.4	160.6	181.9	214.1	240.7	256.8	272.9	272.9
77.5°	42.7	58.8	64.3	80.2	96.2	123.1	149.8	165.8	181.9	187.2	187.2
80°	37.4	42.7	42.7	58.8	69.6	91.0	107.0	112.3	123.1	128.4	139.2
82.5°	16.1	21.4	26.6	42.7	48.2	48.2	64.3	69.6	80.2	85.7	85.7
85°	5.3	10.8	10.8	16.1	26.6	32.2	37.4	42.7	48.2	48.2	53.5
87.5°	5.3	5.3	0.0	5.3	10.8	10.8	21.4	21.4	21.4	32.2	32.2
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: P248847

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9	10957.9
2.5°	10861.7	10867.0	10845.6	10840.3	10829.5	10834.8	10845.6
5°	10663.7	10669.0	10647.6	10626.3	10626.3	10620.8	10626.3
7.5°	10476.3	10481.8	10449.6	10438.8	10417.5	10423.0	10423.0
10°	10289.1	10289.1	10241.1	10235.6	10219.5	10214.2	10214.2
12.5°	10107.2	10091.1	10053.7	10032.3	10043.1	10010.9	10010.9
15°	9946.6	9920.0	9871.7	9855.7	9829.0	9818.2	9818.2
17.5°	9780.8	9759.4	9716.7	9684.5	9652.4	9647.1	9652.4
20°	9620.2	9598.9	9545.4	9524.0	9497.3	9497.3	9486.6
22.5°	9459.7	9438.3	9390.3	9374.2	9336.8	9336.8	9342.1
25°	9293.8	9277.8	9224.3	9213.7	9208.4	9186.8	9197.6
27.5°	9069.2	9058.4	9015.7	8999.6	8978.3	8973.0	8983.5
30°	8657.2	8641.1	8609.1	8593.1	8555.6	8560.9	8571.5
32.5°	8143.6	8122.2	8079.3	8063.2	8031.2	8020.5	8025.7
35°	7501.6	7485.5	7448.1	7448.1	7415.9	7405.1	7415.9
37.5°	6848.8	6864.7	6848.8	6864.7	6848.8	6843.3	6848.8
40°	6233.5	6292.3	6302.9	6361.9	6340.5	6372.5	6367.2
42.5°	5644.8	5741.0	5778.7	5826.7	5816.1	5837.5	5853.6
45°	5050.8	5131.2	5168.7	5200.8	5206.1	5216.9	5222.2
47.5°	4489.0	4553.3	4558.6	4596.0	4590.8	4590.8	4606.8
50°	3964.9	4007.6	4018.2	4045.0	4023.7	4012.9	4018.2
52.5°	3477.9	3520.7	3509.9	3520.7	3494.0	3483.2	3488.5
55°	2980.2	3001.6	3001.6	3001.6	2969.6	2969.6	2969.6
57.5°	2471.9	2477.4	2466.6	2471.9	2466.6	2434.5	2429.2
60°	2006.5	2006.5	2001.0	2006.5	1990.5	1974.4	1974.4
62.5°	1567.6	1578.4	1599.8	1578.4	1567.6	1578.4	1562.3
65°	1171.9	1193.2	1187.7	1198.5	1193.2	1193.2	1182.4
67.5°	882.9	888.2	893.5	899.0	899.0	899.0	899.0
70°	647.5	663.6	658.1	658.1	658.1	658.1	690.2
72.5°	433.4	454.8	449.5	460.1	460.1	470.9	460.1
75°	294.2	315.6	305.0	321.1	315.6	305.0	331.7
77.5°	198.0	208.8	214.1	219.4	214.1	208.8	214.1
80°	139.2	149.8	144.5	149.8	149.8	149.8	155.3
82.5°	85.7	101.7	96.2	101.7	96.2	101.7	101.7
85°	58.8	64.3	53.5	64.3	58.8	58.8	69.6
87.5°	37.4	32.2	32.2	37.4	32.2	37.4	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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