

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: P248826

Luminaire Tested: **LD8B120D010 ER8B120935 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248826  
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: LD8B120D010 ER8B120935 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: 9732.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

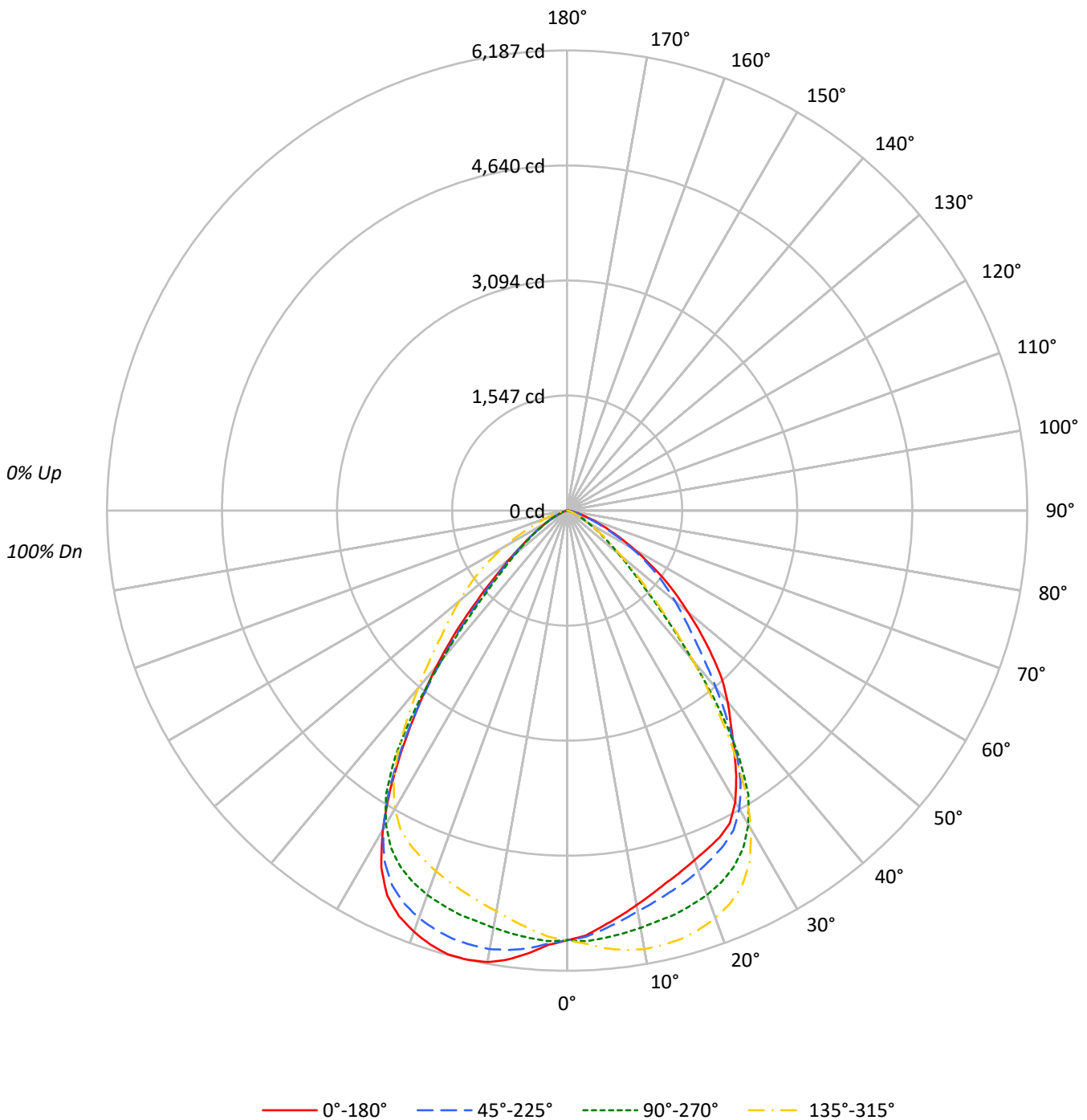
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	178160	178160	178160	178160
5°	173427	178577	184954	178577
10°	168628	178344	193007	178344
15°	165261	179404	197233	179404
20°	164136	180428	197739	180428
25°	164997	180066	194563	180066
30°	160917	173476	176591	173476
35°	147193	151330	143579	151330
40°	135137	105268	109930	105268
45°	120073	64219	74306	64219
50°	101635	42897	47637	42897
55°	84174	29273	30940	29273
60°	64201	19489	19655	19489
65°	45486	12141	11113	12141
70°	32809	8132	7384	8132
75°	20838	4039	3360	4039
80°	14544	3019	2504	3019
85°	12985	0	991	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.9	5.7
10°-20°	1592.5	16.4
20°-30°	2411.3	24.8
30°-40°	2416.7	24.8
40°-50°	1517.6	15.6
50°-60°	808.7	8.3
60°-70°	332.6	3.4
70°-80°	87.9	0.9
80°-90°	14.9	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°	4553.7	46.8
0°-40°	6970.4	71.6
0°-60°	9296.7	95.5
0°-90°	9732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5778	5778	5778	5778	5778	
5°	5603	5769	5975	5769	5603	528
15°	5177	5620	6178	5620	5177	1464
25°	4849	5292	5718	5292	4849	2224
35°	3910	4020	3814	4020	3910	2450
45°	2753	1473	1704	1473	2753	2118
55°	1566	544	576	544	1566	1396
65°	623	166	152	166	623	647
75°	175	34	28	34	175	198
85°	37	0	3	0	37	40
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°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5718.4	5712.7	5709.9	5715.6	5718.4	5729.6	5726.8	5732.4	5732.4	5735.3	5740.9
5°	5602.7	5599.8	5602.7	5602.7	5614.0	5625.2	5622.4	5630.9	5636.5	5650.7	5656.2
7.5°	5495.5	5495.5	5492.6	5503.9	5509.6	5526.5	5523.6	5537.8	5546.3	5560.3	5580.1
10°	5385.4	5385.4	5388.2	5396.7	5399.6	5424.9	5424.9	5444.7	5455.9	5470.1	5495.5
12.5°	5278.3	5278.3	5295.2	5289.5	5300.8	5320.5	5329.0	5348.8	5365.7	5393.9	5419.4
15°	5176.7	5176.7	5182.4	5196.4	5204.9	5230.3	5244.4	5267.0	5286.7	5315.0	5351.7
17.5°	5089.2	5086.4	5089.2	5106.2	5123.1	5145.7	5156.9	5185.1	5204.9	5241.6	5275.5
20°	5001.8	5007.5	5007.5	5021.5	5032.8	5061.0	5072.3	5103.4	5125.9	5159.7	5199.3
22.5°	4925.6	4922.8	4922.8	4942.6	4951.1	4976.4	4987.6	5015.8	5041.3	5069.5	5106.2
25°	4849.4	4843.8	4855.1	4857.9	4863.5	4891.7	4900.2	4919.9	4945.4	4970.8	5007.5
27.5°	4736.6	4731.0	4733.8	4745.1	4753.5	4776.1	4781.8	4801.5	4821.2	4843.8	4874.9
30°	4519.3	4513.7	4511.0	4530.7	4539.2	4556.0	4564.5	4598.4	4604.0	4629.4	4651.9
32.5°	4231.6	4228.8	4234.5	4251.3	4259.8	4282.4	4293.7	4313.4	4327.5	4341.7	4364.2
35°	3910.1	3904.4	3910.1	3927.0	3927.0	3946.7	3955.2	3963.6	3960.8	3963.6	3958.0
37.5°	3611.0	3608.1	3611.0	3619.4	3611.0	3619.4	3611.0	3594.1	3563.1	3529.2	3495.3
40°	3357.1	3359.9	3343.0	3354.3	3323.2	3317.6	3286.6	3244.2	3182.2	3114.5	3018.6
42.5°	3086.3	3077.8	3066.6	3072.1	3046.8	3027.0	2976.2	2922.7	2843.6	2730.9	2615.1
45°	2753.4	2750.6	2744.9	2742.1	2725.2	2705.4	2663.1	2601.0	2513.6	2398.0	2259.7
47.5°	2429.0	2420.5	2420.5	2423.3	2403.5	2400.7	2366.8	2313.3	2237.1	2124.3	1980.4
50°	2118.6	2115.8	2121.5	2132.7	2118.6	2113.0	2090.5	2053.8	1986.1	1890.2	1754.7
52.5°	1839.3	1836.5	1842.2	1856.3	1850.6	1856.3	1833.7	1805.5	1760.4	1667.2	1548.8
55°	1565.7	1565.7	1565.7	1582.6	1582.6	1582.6	1571.3	1554.5	1512.1	1444.4	1334.4
57.5°	1280.8	1283.6	1300.5	1303.3	1300.5	1306.2	1303.3	1286.4	1258.3	1210.3	1125.7
60°	1041.0	1041.0	1049.5	1058.0	1055.1	1058.0	1058.0	1049.5	1021.3	981.8	914.1
62.5°	823.7	832.2	826.5	832.2	843.5	832.2	826.5	821.0	801.2	775.8	719.4
65°	623.4	629.1	629.1	631.9	626.2	629.1	617.9	609.4	598.1	569.9	533.2
67.5°	474.0	474.0	474.0	474.0	471.1	468.3	465.5	457.0	437.3	426.0	386.4
70°	363.9	347.0	347.0	347.0	347.0	349.9	341.4	330.1	324.4	304.7	276.5
72.5°	242.6	248.3	242.6	242.6	237.0	239.8	228.5	222.8	217.3	206.0	189.0
75°	174.9	160.8	166.4	169.3	160.8	166.4	155.1	143.9	143.9	135.4	126.9
77.5°	112.9	110.1	112.9	115.7	112.9	110.1	104.4	98.7	98.7	95.9	87.4
80°	81.9	79.0	79.0	79.0	76.2	79.0	73.4	73.4	67.7	64.9	59.2
82.5°	53.6	53.6	50.7	53.6	50.7	53.6	45.2	45.2	45.2	42.3	36.7
85°	36.7	31.0	31.0	33.9	28.2	33.9	31.0	28.2	25.4	25.4	22.5
87.5°	17.0	19.7	17.0	19.7	17.0	17.0	19.7	17.0	17.0	11.3	11.3
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°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5749.4	5752.2	5752.2	5763.5	5769.1	5771.9	5771.9	5794.5	5786.1	5791.7	5797.3
5°	5667.6	5684.5	5690.1	5690.1	5721.1	5732.4	5743.7	5769.1	5771.9	5788.8	5808.6
7.5°	5588.5	5608.3	5619.7	5645.0	5664.7	5684.5	5718.4	5735.3	5752.2	5774.8	5800.1
10°	5512.4	5535.0	5557.5	5577.3	5608.3	5633.7	5656.2	5695.7	5715.6	5746.6	5780.4
12.5°	5439.1	5470.1	5489.8	5523.6	5557.5	5580.1	5614.0	5650.7	5681.7	5712.7	5752.2
15°	5374.2	5410.9	5433.4	5470.1	5506.8	5537.8	5574.5	5619.7	5642.2	5678.9	5715.6
17.5°	5303.6	5343.2	5371.4	5405.2	5450.4	5484.1	5515.3	5560.3	5588.5	5628.0	5670.4
20°	5230.3	5269.8	5303.6	5337.5	5382.7	5416.5	5453.1	5498.3	5529.3	5568.8	5602.7
22.5°	5142.9	5179.6	5216.1	5255.6	5300.8	5329.0	5371.4	5410.9	5444.7	5481.4	5515.3
25°	5030.0	5075.2	5103.4	5140.0	5176.7	5207.7	5252.8	5292.3	5320.5	5354.4	5385.4
27.5°	4897.4	4931.3	4953.8	4984.8	5021.5	5049.8	5083.5	5123.1	5151.4	5182.4	5204.9
30°	4671.7	4702.8	4722.5	4745.1	4781.8	4807.2	4835.4	4872.0	4891.7	4914.4	4934.1
32.5°	4375.5	4400.9	4412.1	4429.1	4454.5	4479.8	4502.5	4533.5	4542.0	4556.0	4556.0
35°	3946.7	3952.3	3949.5	3955.2	3966.5	3980.5	4000.3	4020.0	4031.3	4031.3	4022.9
37.5°	3444.5	3410.7	3374.0	3345.8	3337.4	3331.7	3343.0	3351.4	3362.8	3368.4	3354.3
40°	2922.7	2846.5	2764.7	2691.3	2640.5	2618.0	2609.5	2615.1	2615.1	2634.8	2634.8
42.5°	2474.1	2355.6	2234.3	2124.3	2050.9	1994.6	1969.1	1969.1	1971.9	1986.1	1994.6
45°	2101.7	1952.2	1811.1	1689.9	1588.3	1514.9	1481.1	1472.6	1469.8	1475.4	1495.1
47.5°	1816.8	1661.7	1514.9	1365.4	1258.3	1184.9	1153.9	1142.5	1131.2	1142.5	1145.4
50°	1594.0	1433.1	1278.0	1128.4	1015.6	950.7	911.2	894.2	891.4	891.4	897.1
52.5°	1390.7	1241.3	1086.2	933.8	815.3	753.3	716.6	708.1	696.8	708.1	708.1
55°	1198.9	1049.5	897.1	753.3	654.4	589.6	555.7	544.5	538.8	547.3	547.3
57.5°	990.3	863.2	722.3	592.4	493.7	448.6	423.1	409.1	406.2	411.9	406.2
60°	812.5	705.3	584.0	465.5	389.3	341.4	321.6	316.0	310.3	316.0	316.0
62.5°	643.2	553.0	454.1	363.9	299.0	265.2	242.6	242.6	239.8	239.8	242.6
65°	476.8	406.2	335.7	259.5	208.8	183.4	166.4	166.4	163.6	166.4	163.6
67.5°	347.0	299.0	242.6	189.0	149.6	135.4	124.1	115.7	121.3	115.7	112.9
70°	254.0	214.4	174.9	143.9	115.7	101.6	93.1	90.2	84.7	84.7	84.7
72.5°	169.3	143.9	118.4	93.1	76.2	62.0	59.2	53.6	48.0	50.7	56.4
75°	112.9	95.9	84.7	67.7	50.7	50.7	33.9	33.9	28.2	33.9	25.4
77.5°	79.0	64.9	50.7	42.3	33.9	31.0	22.5	22.5	19.7	19.7	19.7
80°	56.4	48.0	36.7	31.0	22.5	22.5	19.7	17.0	14.1	14.1	17.0
82.5°	33.9	25.4	25.4	22.5	14.1	11.3	8.5	11.3	5.7	5.7	5.7
85°	19.7	17.0	14.1	8.5	5.7	5.7	2.8	0.0	2.8	2.8	0.0
87.5°	11.3	5.7	5.7	2.8	0.0	2.8	2.8	0.0	0.0	0.0	5.7
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°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5811.5	5808.6	5814.3	5814.3	5831.2	5828.3	5836.8	5836.8	5831.2	5834.0	5845.3
5°	5831.2	5839.7	5856.5	5870.7	5896.0	5907.4	5921.5	5935.6	5938.4	5946.9	5955.4
7.5°	5831.2	5859.4	5879.2	5904.5	5938.4	5958.1	5989.1	6014.6	6025.8	6039.9	6056.8
10°	5819.8	5848.1	5884.8	5913.0	5955.4	5986.4	6017.4	6056.8	6073.8	6096.3	6119.0
12.5°	5797.3	5828.3	5867.8	5904.5	5952.5	5980.7	6020.2	6056.8	6082.3	6113.3	6138.7
15°	5763.5	5800.1	5836.8	5873.5	5924.2	5958.1	5994.8	6037.1	6062.5	6096.3	6119.0
17.5°	5709.9	5749.4	5783.3	5817.1	5865.0	5904.5	5938.4	5977.9	6003.3	6031.5	6062.5
20°	5645.0	5681.7	5718.4	5746.6	5794.5	5828.3	5865.0	5901.7	5921.5	5927.1	5975.1
22.5°	5563.2	5588.5	5616.8	5661.9	5690.1	5721.1	5755.1	5788.8	5808.6	5839.7	5856.5
25°	5427.7	5453.1	5484.1	5503.9	5537.8	5563.2	5597.0	5633.7	5645.0	5667.6	5684.5
27.5°	5238.8	5252.8	5267.0	5283.8	5303.6	5317.8	5337.5	5354.4	5365.7	5377.0	5388.2
30°	4939.7	4939.7	4939.7	4928.4	4936.9	4945.4	4948.1	4945.4	4945.4	4942.6	4942.6
32.5°	4544.8	4522.2	4496.8	4474.3	4465.8	4454.5	4448.8	4440.4	4426.3	4417.8	4420.6
35°	4011.5	3960.8	3929.8	3901.6	3879.0	3862.1	3853.6	3845.1	3842.4	3831.1	3819.7
37.5°	3345.8	3309.1	3286.6	3269.7	3249.9	3233.0	3235.8	3238.7	3247.0	3241.4	3244.2
40°	2640.5	2632.1	2640.5	2620.8	2615.1	2620.8	2634.8	2654.7	2666.0	2677.2	2697.0
42.5°	2008.6	2022.7	2042.5	2042.5	2050.9	2062.3	2079.1	2110.2	2127.1	2146.8	2169.4
45°	1512.1	1529.0	1554.5	1562.8	1568.5	1582.6	1602.4	1627.7	1639.0	1656.0	1675.7
47.5°	1165.1	1176.4	1190.4	1204.6	1218.7	1224.4	1244.1	1244.1	1258.3	1269.5	1275.1
50°	908.4	919.7	930.9	939.4	945.1	953.6	959.1	967.6	970.4	976.1	978.9
52.5°	710.9	725.0	725.0	730.6	739.1	747.6	744.8	747.6	750.4	750.4	758.8
55°	555.7	555.7	564.2	564.2	569.9	567.0	569.9	569.9	569.9	569.9	572.7
57.5°	414.7	417.6	426.0	420.3	417.6	423.1	417.6	423.1	420.3	426.0	417.6
60°	318.7	318.7	321.6	321.6	324.4	324.4	324.4	321.6	321.6	318.7	318.7
62.5°	239.8	242.6	245.5	242.6	242.6	242.6	239.8	239.8	237.0	234.1	234.1
65°	160.8	158.0	163.6	158.0	160.8	160.8	158.0	160.8	152.3	155.1	152.3
67.5°	115.7	112.9	110.1	112.9	110.1	107.2	107.2	110.1	112.9	104.4	104.4
70°	76.2	79.0	76.2	79.0	81.9	81.9	79.0	76.2	79.0	73.4	76.2
72.5°	48.0	48.0	48.0	48.0	48.0	50.7	50.7	50.7	45.2	45.2	42.3
75°	22.5	31.0	25.4	22.5	31.0	31.0	28.2	28.2	25.4	25.4	25.4
77.5°	22.5	17.0	17.0	17.0	17.0	17.0	17.0	17.0	14.1	17.0	14.1
80°	11.3	11.3	11.3	8.5	11.3	11.3	14.1	11.3	11.3	8.5	14.1
82.5°	5.7	5.7	5.7	0.0	2.8	5.7	5.7	2.8	5.7	5.7	2.8
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: P248826

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5842.5	5839.7	5842.5	5845.3	5842.5	5839.7	5842.5	5845.3	5834.0	5831.2	5836.8
5°	5966.6	5966.6	5972.2	5975.1	5972.2	5966.6	5966.6	5955.4	5946.9	5938.4	5935.6
7.5°	6073.8	6079.5	6085.1	6087.8	6085.1	6079.5	6073.8	6056.8	6039.9	6025.8	6014.6
10°	6138.7	6147.2	6158.4	6164.0	6158.4	6147.2	6138.7	6119.0	6096.3	6073.8	6056.8
12.5°	6166.9	6175.4	6189.5	6186.7	6189.5	6175.4	6166.9	6138.7	6113.3	6082.3	6056.8
15°	6147.2	6158.4	6172.5	6178.2	6172.5	6158.4	6147.2	6119.0	6096.3	6062.5	6037.1
17.5°	6085.1	6102.0	6110.5	6119.0	6110.5	6102.0	6085.1	6062.5	6031.5	6003.3	5977.9
20°	6000.4	6011.8	6023.1	6025.8	6023.1	6011.8	6000.4	5975.1	5927.1	5921.5	5901.7
22.5°	5879.2	5887.7	5913.0	5904.5	5913.0	5887.7	5879.2	5856.5	5839.7	5808.6	5788.8
25°	5704.2	5712.7	5715.6	5718.4	5715.6	5712.7	5704.2	5684.5	5667.6	5645.0	5633.7
27.5°	5402.4	5402.4	5408.0	5410.9	5408.0	5402.4	5402.4	5388.2	5377.0	5365.7	5354.4
30°	4945.4	4945.4	4945.4	4959.5	4945.4	4945.4	4945.4	4942.6	4942.6	4945.4	4945.4
32.5°	4417.8	4412.1	4406.6	4412.1	4406.6	4412.1	4417.8	4420.6	4417.8	4426.3	4440.4
35°	3819.7	3816.9	3825.4	3814.1	3825.4	3816.9	3819.7	3819.7	3831.1	3842.4	3845.1
37.5°	3247.0	3241.4	3252.7	3241.4	3252.7	3241.4	3247.0	3244.2	3241.4	3247.0	3238.7
40°	2702.7	2708.2	2708.2	2730.9	2708.2	2708.2	2702.7	2697.0	2677.2	2666.0	2654.7
42.5°	2180.7	2197.7	2192.0	2208.9	2192.0	2197.7	2180.7	2169.4	2146.8	2127.1	2110.2
45°	1687.0	1698.3	1698.3	1703.9	1698.3	1698.3	1687.0	1675.7	1656.0	1639.0	1627.7
47.5°	1294.8	1294.8	1294.8	1297.7	1294.8	1294.8	1294.8	1275.1	1269.5	1258.3	1244.1
50°	984.6	987.4	990.3	993.0	990.3	987.4	984.6	978.9	976.1	970.4	967.6
52.5°	756.0	758.8	753.3	758.8	753.3	758.8	756.0	758.8	750.4	750.4	747.6
55°	572.7	569.9	572.7	575.5	572.7	569.9	572.7	572.7	569.9	569.9	569.9
57.5°	420.3	414.7	414.7	414.7	414.7	414.7	420.3	417.6	426.0	420.3	423.1
60°	313.2	316.0	316.0	318.7	316.0	316.0	313.2	318.7	318.7	321.6	321.6
62.5°	231.3	239.8	234.1	239.8	234.1	239.8	231.3	234.1	234.1	237.0	239.8
65°	149.6	149.6	149.6	152.3	149.6	149.6	149.6	152.3	155.1	152.3	160.8
67.5°	101.6	104.4	110.1	107.2	110.1	104.4	101.6	104.4	104.4	112.9	110.1
70°	81.9	73.4	73.4	81.9	73.4	73.4	81.9	76.2	73.4	79.0	76.2
72.5°	48.0	42.3	48.0	48.0	48.0	42.3	48.0	42.3	45.2	45.2	50.7
75°	25.4	22.5	19.7	28.2	19.7	22.5	25.4	25.4	25.4	25.4	28.2
77.5°	17.0	14.1	19.7	19.7	19.7	14.1	17.0	14.1	17.0	14.1	17.0
80°	8.5	11.3	8.5	14.1	8.5	11.3	8.5	14.1	8.5	11.3	11.3
82.5°	2.8	5.7	5.7	5.7	5.7	5.7	2.8	2.8	5.7	5.7	2.8
85°	0.0	5.7	2.8	2.8	2.8	5.7	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.0	0.0	2.8	0.0	0.0	2.8	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: P248826

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5836.8	5828.3	5831.2	5814.3	5814.3	5808.6	5811.5	5797.3	5791.7	5786.1	5794.5
5°	5921.5	5907.4	5896.0	5870.7	5856.5	5839.7	5831.2	5808.6	5788.8	5771.9	5769.1
7.5°	5989.1	5958.1	5938.4	5904.5	5879.2	5859.4	5831.2	5800.1	5774.8	5752.2	5735.3
10°	6017.4	5986.4	5955.4	5913.0	5884.8	5848.1	5819.8	5780.4	5746.6	5715.6	5695.7
12.5°	6020.2	5980.7	5952.5	5904.5	5867.8	5828.3	5797.3	5752.2	5712.7	5681.7	5650.7
15°	5994.8	5958.1	5924.2	5873.5	5836.8	5800.1	5763.5	5715.6	5678.9	5642.2	5619.7
17.5°	5938.4	5904.5	5865.0	5817.1	5783.3	5749.4	5709.9	5670.4	5628.0	5588.5	5560.3
20°	5865.0	5828.3	5794.5	5746.6	5718.4	5681.7	5645.0	5602.7	5568.8	5529.3	5498.3
22.5°	5755.1	5721.1	5690.1	5661.9	5616.8	5588.5	5563.2	5515.3	5481.4	5444.7	5410.9
25°	5597.0	5563.2	5537.8	5503.9	5484.1	5453.1	5427.7	5385.4	5354.4	5320.5	5292.3
27.5°	5337.5	5317.8	5303.6	5283.8	5267.0	5252.8	5238.8	5204.9	5182.4	5151.4	5123.1
30°	4948.1	4945.4	4936.9	4928.4	4939.7	4939.7	4939.7	4934.1	4914.4	4891.7	4872.0
32.5°	4448.8	4454.5	4465.8	4474.3	4496.8	4522.2	4544.8	4556.0	4556.0	4542.0	4533.5
35°	3853.6	3862.1	3879.0	3901.6	3929.8	3960.8	4011.5	4022.9	4031.3	4031.3	4020.0
37.5°	3235.8	3233.0	3249.9	3269.7	3286.6	3309.1	3345.8	3354.3	3368.4	3362.8	3351.4
40°	2634.8	2620.8	2615.1	2620.8	2640.5	2632.1	2640.5	2634.8	2634.8	2615.1	2615.1
42.5°	2079.1	2062.3	2050.9	2042.5	2042.5	2022.7	2008.6	1994.6	1986.1	1971.9	1969.1
45°	1602.4	1582.6	1568.5	1562.8	1554.5	1529.0	1512.1	1495.1	1475.4	1469.8	1472.6
47.5°	1244.1	1224.4	1218.7	1204.6	1190.4	1176.4	1165.1	1145.4	1142.5	1131.2	1142.5
50°	959.1	953.6	945.1	939.4	930.9	919.7	908.4	897.1	891.4	891.4	894.2
52.5°	744.8	747.6	739.1	730.6	725.0	725.0	710.9	708.1	708.1	696.8	708.1
55°	569.9	567.0	569.9	564.2	564.2	555.7	555.7	547.3	547.3	538.8	544.5
57.5°	417.6	423.1	417.6	420.3	426.0	417.6	414.7	406.2	411.9	406.2	409.1
60°	324.4	324.4	324.4	321.6	321.6	318.7	318.7	316.0	316.0	310.3	316.0
62.5°	239.8	242.6	242.6	242.6	245.5	242.6	239.8	242.6	239.8	239.8	242.6
65°	158.0	160.8	160.8	158.0	163.6	158.0	160.8	163.6	166.4	163.6	166.4
67.5°	107.2	107.2	110.1	112.9	110.1	112.9	115.7	112.9	115.7	121.3	115.7
70°	79.0	81.9	81.9	79.0	76.2	79.0	76.2	84.7	84.7	84.7	90.2
72.5°	50.7	50.7	48.0	48.0	48.0	48.0	48.0	56.4	50.7	48.0	53.6
75°	28.2	31.0	31.0	22.5	25.4	31.0	22.5	25.4	33.9	28.2	33.9
77.5°	17.0	17.0	17.0	17.0	17.0	17.0	22.5	19.7	19.7	19.7	22.5
80°	14.1	11.3	11.3	8.5	11.3	11.3	11.3	17.0	14.1	14.1	17.0
82.5°	5.7	5.7	2.8	0.0	5.7	5.7	5.7	5.7	5.7	5.7	11.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	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: P248826

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5771.9	5771.9	5769.1	5763.5	5752.2	5752.2	5749.4	5740.9	5735.3	5732.4	5732.4
5°	5743.7	5732.4	5721.1	5690.1	5690.1	5684.5	5667.6	5656.2	5650.7	5636.5	5630.9
7.5°	5718.4	5684.5	5664.7	5645.0	5619.7	5608.3	5588.5	5580.1	5560.3	5546.3	5537.8
10°	5656.2	5633.7	5608.3	5577.3	5557.5	5535.0	5512.4	5495.5	5470.1	5455.9	5444.7
12.5°	5614.0	5580.1	5557.5	5523.6	5489.8	5470.1	5439.1	5419.4	5393.9	5365.7	5348.8
15°	5574.5	5537.8	5506.8	5470.1	5433.4	5410.9	5374.2	5351.7	5315.0	5286.7	5267.0
17.5°	5515.3	5484.1	5450.4	5405.2	5371.4	5343.2	5303.6	5275.5	5241.6	5204.9	5185.1
20°	5453.1	5416.5	5382.7	5337.5	5303.6	5269.8	5230.3	5199.3	5159.7	5125.9	5103.4
22.5°	5371.4	5329.0	5300.8	5255.6	5216.1	5179.6	5142.9	5106.2	5069.5	5041.3	5015.8
25°	5252.8	5207.7	5176.7	5140.0	5103.4	5075.2	5030.0	5007.5	4970.8	4945.4	4919.9
27.5°	5083.5	5049.8	5021.5	4984.8	4953.8	4931.3	4897.4	4874.9	4843.8	4821.2	4801.5
30°	4835.4	4807.2	4781.8	4745.1	4722.5	4702.8	4671.7	4651.9	4629.4	4604.0	4598.4
32.5°	4502.5	4479.8	4454.5	4429.1	4412.1	4400.9	4375.5	4364.2	4341.7	4327.5	4313.4
35°	4000.3	3980.5	3966.5	3955.2	3949.5	3952.3	3946.7	3958.0	3963.6	3960.8	3963.6
37.5°	3343.0	3331.7	3337.4	3345.8	3374.0	3410.7	3444.5	3495.3	3529.2	3563.1	3594.1
40°	2609.5	2618.0	2640.5	2691.3	2764.7	2846.5	2922.7	3018.6	3114.5	3182.2	3244.2
42.5°	1969.1	1994.6	2050.9	2124.3	2234.3	2355.6	2474.1	2615.1	2730.9	2843.6	2922.7
45°	1481.1	1514.9	1588.3	1689.9	1811.1	1952.2	2101.7	2259.7	2398.0	2513.6	2601.0
47.5°	1153.9	1184.9	1258.3	1365.4	1514.9	1661.7	1816.8	1980.4	2124.3	2237.1	2313.3
50°	911.2	950.7	1015.6	1128.4	1278.0	1433.1	1594.0	1754.7	1890.2	1986.1	2053.8
52.5°	716.6	753.3	815.3	933.8	1086.2	1241.3	1390.7	1548.8	1667.2	1760.4	1805.5
55°	555.7	589.6	654.4	753.3	897.1	1049.5	1198.9	1334.4	1444.4	1512.1	1554.5
57.5°	423.1	448.6	493.7	592.4	722.3	863.2	990.3	1125.7	1210.3	1258.3	1286.4
60°	321.6	341.4	389.3	465.5	584.0	705.3	812.5	914.1	981.8	1021.3	1049.5
62.5°	242.6	265.2	299.0	363.9	454.1	553.0	643.2	719.4	775.8	801.2	821.0
65°	166.4	183.4	208.8	259.5	335.7	406.2	476.8	533.2	569.9	598.1	609.4
67.5°	124.1	135.4	149.6	189.0	242.6	299.0	347.0	386.4	426.0	437.3	457.0
70°	93.1	101.6	115.7	143.9	174.9	214.4	254.0	276.5	304.7	324.4	330.1
72.5°	59.2	62.0	76.2	93.1	118.4	143.9	169.3	189.0	206.0	217.3	222.8
75°	33.9	50.7	50.7	67.7	84.7	95.9	112.9	126.9	135.4	143.9	143.9
77.5°	22.5	31.0	33.9	42.3	50.7	64.9	79.0	87.4	95.9	98.7	98.7
80°	19.7	22.5	22.5	31.0	36.7	48.0	56.4	59.2	64.9	67.7	73.4
82.5°	8.5	11.3	14.1	22.5	25.4	25.4	33.9	36.7	42.3	45.2	45.2
85°	2.8	5.7	5.7	8.5	14.1	17.0	19.7	22.5	25.4	25.4	28.2
87.5°	2.8	2.8	0.0	2.8	5.7	5.7	11.3	11.3	11.3	17.0	17.0
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: P248826

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6	5777.6
2.5°	5726.8	5729.6	5718.4	5715.6	5709.9	5712.7	5718.4
5°	5622.4	5625.2	5614.0	5602.7	5602.7	5599.8	5602.7
7.5°	5523.6	5526.5	5509.6	5503.9	5492.6	5495.5	5495.5
10°	5424.9	5424.9	5399.6	5396.7	5388.2	5385.4	5385.4
12.5°	5329.0	5320.5	5300.8	5289.5	5295.2	5278.3	5278.3
15°	5244.4	5230.3	5204.9	5196.4	5182.4	5176.7	5176.7
17.5°	5156.9	5145.7	5123.1	5106.2	5089.2	5086.4	5089.2
20°	5072.3	5061.0	5032.8	5021.5	5007.5	5007.5	5001.8
22.5°	4987.6	4976.4	4951.1	4942.6	4922.8	4922.8	4925.6
25°	4900.2	4891.7	4863.5	4857.9	4855.1	4843.8	4849.4
27.5°	4781.8	4776.1	4753.5	4745.1	4733.8	4731.0	4736.6
30°	4564.5	4556.0	4539.2	4530.7	4511.0	4513.7	4519.3
32.5°	4293.7	4282.4	4259.8	4251.3	4234.5	4228.8	4231.6
35°	3955.2	3946.7	3927.0	3927.0	3910.1	3904.4	3910.1
37.5°	3611.0	3619.4	3611.0	3619.4	3611.0	3608.1	3611.0
40°	3286.6	3317.6	3323.2	3354.3	3343.0	3359.9	3357.1
42.5°	2976.2	3027.0	3046.8	3072.1	3066.6	3077.8	3086.3
45°	2663.1	2705.4	2725.2	2742.1	2744.9	2750.6	2753.4
47.5°	2366.8	2400.7	2403.5	2423.3	2420.5	2420.5	2429.0
50°	2090.5	2113.0	2118.6	2132.7	2121.5	2115.8	2118.6
52.5°	1833.7	1856.3	1850.6	1856.3	1842.2	1836.5	1839.3
55°	1571.3	1582.6	1582.6	1582.6	1565.7	1565.7	1565.7
57.5°	1303.3	1306.2	1300.5	1303.3	1300.5	1283.6	1280.8
60°	1058.0	1058.0	1055.1	1058.0	1049.5	1041.0	1041.0
62.5°	826.5	832.2	843.5	832.2	826.5	832.2	823.7
65°	617.9	629.1	626.2	631.9	629.1	629.1	623.4
67.5°	465.5	468.3	471.1	474.0	474.0	474.0	474.0
70°	341.4	349.9	347.0	347.0	347.0	347.0	363.9
72.5°	228.5	239.8	237.0	242.6	242.6	248.3	242.6
75°	155.1	166.4	160.8	169.3	166.4	160.8	174.9
77.5°	104.4	110.1	112.9	115.7	112.9	110.1	112.9
80°	73.4	79.0	76.2	79.0	79.0	79.0	81.9
82.5°	45.2	53.6	50.7	53.6	50.7	53.6	53.6
85°	31.0	33.9	28.2	33.9	31.0	31.0	36.7
87.5°	19.7	17.0	17.0	19.7	17.0	19.7	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)