

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: P248889

Luminaire Tested: **LD8B120D010 ER8B120835 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248889  
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 ER8B120835 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9421.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

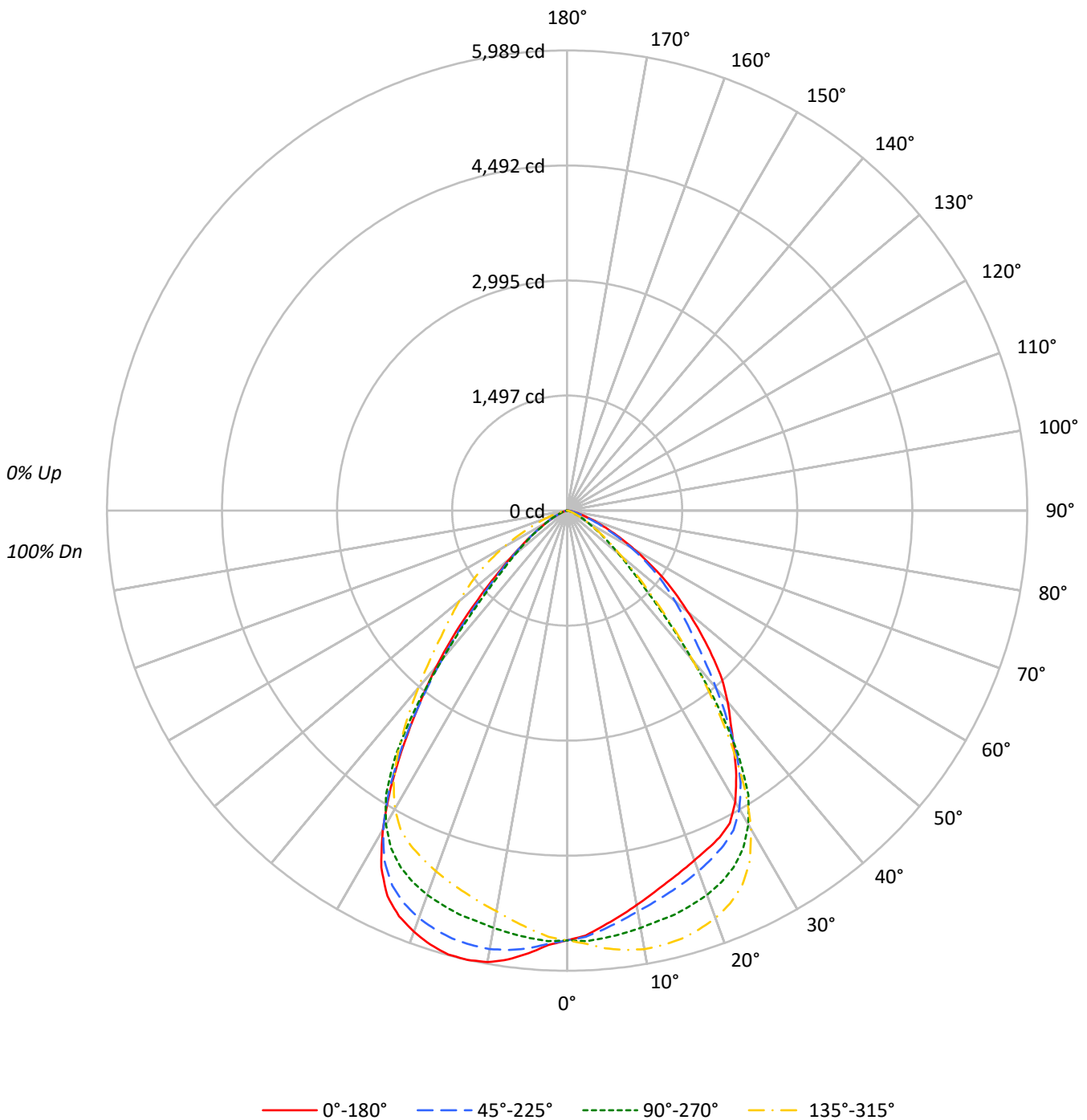
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	172464	172464	172464	172464
5°	167886	172869	179045	172869
10°	163239	172645	186839	172645
15°	159978	173670	190932	173670
20°	158892	174663	191422	174663
25°	159726	174312	188344	174312
30°	155776	167932	170948	167932
35°	142487	146492	138994	146492
40°	130817	101903	106415	101903
45°	116236	62169	71933	62169
50°	98387	41530	46116	41530
55°	81486	28338	29951	28338
60°	62148	18866	19032	18866
65°	44034	11755	10762	11755
70°	31763	7871	7141	7871
75°	20171	3908	3253	3908
80°	14064	2912	2415	2912
85°	12560	0	955	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.3	5.7
10°-20°	1541.6	16.4
20°-30°	2334.3	24.8
30°-40°	2339.5	24.8
40°-50°	1469.1	15.6
50°-60°	782.9	8.3
60°-70°	321.9	3.4
70°-80°	85.0	0.9
80°-90°	14.4	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°	4408.2	46.8
0°-40°	6747.7	71.6
0°-60°	8999.6	95.5
0°-90°	9421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5593	5593	5593	5593	5593	
5°	5424	5585	5784	5585	5424	511
15°	5011	5440	5981	5440	5011	1417
25°	4694	5123	5536	5123	4694	2153
35°	3785	3892	3692	3892	3785	2371
45°	2665	1426	1650	1426	2665	2050
55°	1516	527	557	527	1516	1351
65°	604	161	148	161	604	626
75°	169	33	27	33	169	192
85°	36	0	3	0	36	39
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°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5535.6	5530.1	5527.4	5532.9	5535.6	5546.5	5543.8	5549.2	5549.2	5552.0	5557.4
5°	5423.7	5420.9	5423.7	5423.7	5434.6	5445.5	5442.8	5451.0	5456.4	5470.1	5475.5
7.5°	5319.9	5319.9	5317.1	5328.0	5333.5	5349.9	5347.1	5360.8	5369.0	5382.6	5401.7
10°	5213.3	5213.3	5216.0	5224.3	5227.1	5251.6	5251.6	5270.7	5281.6	5295.3	5319.9
12.5°	5109.6	5109.6	5126.0	5120.5	5131.4	5150.5	5158.7	5177.8	5194.2	5221.6	5246.2
15°	5011.2	5011.2	5016.7	5030.3	5038.6	5063.2	5076.8	5098.7	5117.8	5145.1	5180.6
17.5°	4926.6	4923.9	4926.6	4943.0	4959.4	4981.2	4992.1	5019.4	5038.6	5074.1	5106.9
20°	4842.0	4847.5	4847.5	4861.1	4872.0	4899.3	4910.2	4940.3	4962.1	4994.8	5033.2
22.5°	4768.2	4765.5	4765.5	4784.6	4792.8	4817.3	4828.2	4855.6	4880.2	4907.5	4943.0
25°	4694.5	4689.0	4700.0	4702.7	4708.1	4735.4	4743.6	4762.7	4787.3	4811.9	4847.5
27.5°	4585.2	4579.8	4582.5	4593.4	4601.6	4623.4	4628.9	4648.1	4667.2	4689.0	4719.1
30°	4374.9	4369.5	4366.8	4385.9	4394.1	4410.4	4418.6	4451.5	4456.8	4481.5	4503.3
32.5°	4096.4	4093.7	4099.2	4115.5	4123.7	4145.6	4156.5	4175.6	4189.2	4202.9	4224.7
35°	3785.1	3779.6	3785.1	3801.5	3801.5	3820.6	3828.8	3836.9	3834.2	3836.9	3831.5
37.5°	3495.6	3492.8	3495.6	3503.7	3495.6	3503.7	3495.6	3479.2	3449.2	3416.4	3383.6
40°	3249.8	3252.5	3236.2	3247.1	3217.0	3211.6	3181.6	3140.6	3080.5	3015.0	2922.1
42.5°	2987.7	2979.5	2968.6	2974.0	2949.5	2930.2	2881.1	2829.3	2752.7	2643.6	2531.5
45°	2665.4	2662.7	2657.2	2654.5	2638.1	2619.0	2578.0	2517.9	2433.3	2321.3	2187.5
47.5°	2351.3	2343.1	2343.1	2345.8	2326.7	2324.0	2291.2	2239.4	2165.6	2056.4	1917.1
50°	2050.9	2048.2	2053.7	2064.6	2050.9	2045.5	2023.7	1988.2	1922.6	1829.8	1698.6
52.5°	1780.5	1777.8	1783.3	1796.9	1791.4	1796.9	1775.1	1747.8	1704.1	1613.9	1499.3
55°	1515.7	1515.7	1515.7	1532.0	1532.0	1532.0	1521.1	1504.8	1463.8	1398.2	1291.8
57.5°	1239.9	1242.6	1259.0	1261.7	1259.0	1264.5	1261.7	1245.3	1218.0	1171.6	1089.7
60°	1007.7	1007.7	1015.9	1024.1	1021.3	1024.1	1024.1	1015.9	988.6	950.4	884.9
62.5°	797.4	805.6	800.1	805.6	816.5	805.6	800.1	794.7	775.6	751.0	696.4
65°	603.5	609.0	609.0	611.7	606.2	609.0	598.1	589.9	579.0	551.7	516.2
67.5°	458.8	458.8	458.8	458.8	456.0	453.3	450.6	442.4	423.3	412.4	374.1
70°	352.3	335.9	335.9	335.9	335.9	338.7	330.5	319.6	314.1	295.0	267.6
72.5°	234.8	240.3	234.8	234.8	229.4	232.1	221.2	215.7	210.3	199.4	183.0
75°	169.3	155.7	161.1	163.9	155.7	161.1	150.2	139.3	139.3	131.1	122.9
77.5°	109.3	106.6	109.3	112.0	109.3	106.6	101.1	95.5	95.5	92.8	84.6
80°	79.2	76.4	76.4	76.4	73.7	76.4	71.0	71.0	65.5	62.8	57.3
82.5°	51.9	51.9	49.1	51.9	49.1	51.9	43.7	43.7	43.7	40.9	35.5
85°	35.5	30.0	30.0	32.8	27.3	32.8	30.0	27.3	24.6	24.6	21.8
87.5°	16.4	19.1	16.4	19.1	16.4	16.4	19.1	16.4	16.4	10.9	10.9
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°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5565.6	5568.3	5568.3	5579.3	5584.7	5587.4	5587.4	5609.4	5601.2	5606.7	5612.1
5°	5486.5	5502.8	5508.3	5508.3	5538.3	5549.2	5560.1	5584.7	5587.4	5603.9	5623.0
7.5°	5409.9	5429.1	5440.1	5464.6	5483.7	5502.8	5535.6	5552.0	5568.3	5590.3	5614.8
10°	5336.2	5358.1	5379.9	5399.0	5429.1	5453.7	5475.5	5513.7	5532.9	5562.9	5595.6
12.5°	5265.3	5295.3	5314.4	5347.1	5379.9	5401.7	5434.6	5470.1	5500.1	5530.1	5568.3
15°	5202.4	5238.0	5259.8	5295.3	5330.8	5360.8	5396.3	5440.1	5461.9	5497.4	5532.9
17.5°	5134.1	5172.4	5199.7	5232.5	5276.2	5308.9	5339.0	5382.6	5409.9	5448.2	5489.2
20°	5063.2	5101.4	5134.1	5166.9	5210.7	5243.4	5278.9	5322.6	5352.6	5390.8	5423.7
22.5°	4978.5	5014.1	5049.5	5087.7	5131.4	5158.7	5199.7	5238.0	5270.7	5306.2	5339.0
25°	4869.3	4913.0	4940.3	4975.7	5011.2	5041.3	5085.0	5123.2	5150.5	5183.3	5213.3
27.5°	4740.9	4773.7	4795.5	4825.5	4861.1	4888.4	4921.1	4959.4	4986.7	5016.7	5038.6
30°	4522.4	4552.5	4571.6	4593.4	4628.9	4653.6	4680.9	4716.3	4735.4	4757.3	4776.4
32.5°	4235.6	4260.2	4271.1	4287.6	4312.2	4336.7	4358.6	4388.6	4396.8	4410.4	4410.4
35°	3820.6	3826.0	3823.3	3828.8	3839.7	3853.3	3872.4	3891.5	3902.5	3902.5	3894.4
37.5°	3334.5	3301.7	3266.2	3238.9	3230.7	3225.2	3236.2	3244.3	3255.3	3260.7	3247.1
40°	2829.3	2755.6	2676.3	2605.3	2556.1	2534.3	2526.1	2531.5	2531.5	2550.6	2550.6
42.5°	2395.1	2280.3	2162.9	2056.4	1985.3	1930.8	1906.2	1906.2	1908.9	1922.6	1930.8
45°	2034.6	1889.8	1753.2	1635.9	1537.5	1466.5	1433.8	1425.6	1422.9	1428.3	1447.4
47.5°	1758.7	1608.6	1466.5	1321.8	1218.0	1147.0	1117.0	1106.0	1095.1	1106.0	1108.8
50°	1543.0	1387.3	1237.2	1092.4	983.1	920.3	882.1	865.7	863.0	863.0	868.5
52.5°	1346.3	1201.6	1051.5	904.0	789.2	729.2	693.7	685.5	674.6	685.5	685.5
55°	1160.6	1015.9	868.5	729.2	633.5	570.8	538.0	527.1	521.6	529.8	529.8
57.5°	958.6	835.6	699.2	573.5	478.0	434.2	409.6	396.0	393.2	398.7	393.2
60°	786.5	682.8	565.3	450.6	376.9	330.5	311.4	305.9	300.4	305.9	305.9
62.5°	622.6	535.3	439.6	352.3	289.4	256.7	234.8	234.8	232.1	232.1	234.8
65°	461.5	393.2	325.0	251.2	202.1	177.5	161.1	161.1	158.4	161.1	158.4
67.5°	335.9	289.4	234.8	183.0	144.8	131.1	120.2	112.0	117.5	112.0	109.3
70°	245.8	207.5	169.3	139.3	112.0	98.4	90.2	87.3	81.9	81.9	81.9
72.5°	163.9	139.3	114.7	90.2	73.7	60.0	57.3	51.9	46.4	49.1	54.6
75°	109.3	92.8	81.9	65.5	49.1	49.1	32.8	32.8	27.3	32.8	24.6
77.5°	76.4	62.8	49.1	40.9	32.8	30.0	21.8	21.8	19.1	19.1	19.1
80°	54.6	46.4	35.5	30.0	21.8	21.8	19.1	16.4	13.6	13.6	16.4
82.5°	32.8	24.6	24.6	21.8	13.6	10.9	8.2	10.9	5.5	5.5	5.5
85°	19.1	16.4	13.6	8.2	5.5	5.5	2.7	0.0	2.7	2.7	0.0
87.5°	10.9	5.5	5.5	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.5
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°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5625.8	5623.0	5628.5	5628.5	5644.9	5642.1	5650.3	5650.3	5644.9	5647.6	5658.5
5°	5644.9	5653.1	5669.4	5683.1	5707.6	5718.6	5732.2	5745.9	5748.6	5756.8	5765.0
7.5°	5644.9	5672.2	5691.3	5715.8	5748.6	5767.7	5797.8	5822.4	5833.3	5846.9	5863.3
10°	5633.9	5661.2	5696.7	5724.0	5765.0	5795.1	5825.1	5863.3	5879.7	5901.5	5923.4
12.5°	5612.1	5642.1	5680.3	5715.8	5762.2	5789.6	5827.8	5863.3	5887.9	5917.9	5942.5
15°	5579.3	5614.8	5650.3	5685.8	5734.9	5767.7	5803.3	5844.2	5868.8	5901.5	5923.4
17.5°	5527.4	5565.6	5598.5	5631.2	5677.6	5715.8	5748.6	5786.9	5811.5	5838.8	5868.8
20°	5464.6	5500.1	5535.6	5562.9	5609.4	5642.1	5677.6	5713.1	5732.2	5737.7	5784.2
22.5°	5385.4	5409.9	5437.3	5481.0	5508.3	5538.3	5571.1	5603.9	5623.0	5653.1	5669.4
25°	5254.3	5278.9	5308.9	5328.0	5360.8	5385.4	5418.2	5453.7	5464.6	5486.5	5502.8
27.5°	5071.4	5085.0	5098.7	5115.0	5134.1	5147.8	5166.9	5183.3	5194.2	5205.1	5216.0
30°	4781.8	4781.8	4781.8	4770.9	4779.1	4787.3	4790.0	4787.3	4787.3	4784.6	4784.6
32.5°	4399.5	4377.7	4353.1	4331.3	4323.1	4312.2	4306.7	4298.5	4284.9	4276.7	4279.4
35°	3883.3	3834.2	3804.2	3776.9	3755.1	3738.7	3730.5	3722.3	3719.6	3708.7	3697.6
37.5°	3238.9	3203.4	3181.6	3165.2	3146.1	3129.7	3132.3	3135.2	3143.3	3137.9	3140.6
40°	2556.1	2547.9	2556.1	2537.0	2531.5	2537.0	2550.6	2569.9	2580.8	2591.7	2610.8
42.5°	1944.4	1958.0	1977.2	1977.2	1985.3	1996.4	2012.7	2042.8	2059.1	2078.2	2100.1
45°	1463.8	1480.2	1504.8	1512.9	1518.4	1532.0	1551.2	1575.7	1586.6	1603.0	1622.2
47.5°	1127.9	1138.8	1152.4	1166.1	1179.7	1185.2	1204.3	1204.3	1218.0	1229.0	1234.3
50°	879.4	890.3	901.2	909.4	914.9	923.1	928.5	936.7	939.4	944.9	947.6
52.5°	688.2	701.9	701.9	707.3	715.5	723.7	721.0	723.7	726.4	726.4	734.6
55°	538.0	538.0	546.2	546.2	551.7	548.9	551.7	551.7	551.7	551.7	554.4
57.5°	401.4	404.2	412.4	406.9	404.2	409.6	404.2	409.6	406.9	412.4	404.2
60°	308.6	308.6	311.4	311.4	314.1	314.1	314.1	311.4	311.4	308.6	308.6
62.5°	232.1	234.8	237.6	234.8	234.8	234.8	232.1	232.1	229.4	226.6	226.6
65°	155.7	153.0	158.4	153.0	155.7	155.7	153.0	155.7	147.5	150.2	147.5
67.5°	112.0	109.3	106.6	109.3	106.6	103.8	103.8	106.6	109.3	101.1	101.1
70°	73.7	76.4	73.7	76.4	79.2	79.2	76.4	73.7	76.4	71.0	73.7
72.5°	46.4	46.4	46.4	46.4	46.4	49.1	49.1	49.1	43.7	43.7	40.9
75°	21.8	30.0	24.6	21.8	30.0	30.0	27.3	27.3	24.6	24.6	24.6
77.5°	21.8	16.4	16.4	16.4	16.4	16.4	16.4	16.4	13.6	16.4	13.6
80°	10.9	10.9	10.9	8.2	10.9	10.9	13.6	10.9	10.9	8.2	13.6
82.5°	5.5	5.5	5.5	0.0	2.7	5.5	5.5	2.7	5.5	5.5	2.7
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: P248889

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5655.8	5653.1	5655.8	5658.5	5655.8	5653.1	5655.8	5658.5	5647.6	5644.9	5650.3
5°	5775.9	5775.9	5781.3	5784.2	5781.3	5775.9	5775.9	5765.0	5756.8	5748.6	5745.9
7.5°	5879.7	5885.2	5890.6	5893.3	5890.6	5885.2	5879.7	5863.3	5846.9	5833.3	5822.4
10°	5942.5	5950.7	5961.6	5967.0	5961.6	5950.7	5942.5	5923.4	5901.5	5879.7	5863.3
12.5°	5969.9	5978.1	5991.7	5989.0	5991.7	5978.1	5969.9	5942.5	5917.9	5887.9	5863.3
15°	5950.7	5961.6	5975.2	5980.8	5975.2	5961.6	5950.7	5923.4	5901.5	5868.8	5844.2
17.5°	5890.6	5907.0	5915.2	5923.4	5915.2	5907.0	5890.6	5868.8	5838.8	5811.5	5786.9
20°	5808.7	5819.7	5830.6	5833.3	5830.6	5819.7	5808.7	5784.2	5737.7	5732.2	5713.1
22.5°	5691.3	5699.5	5724.0	5715.8	5724.0	5699.5	5691.3	5669.4	5653.1	5623.0	5603.9
25°	5521.9	5530.1	5532.9	5535.6	5532.9	5530.1	5521.9	5502.8	5486.5	5464.6	5453.7
27.5°	5229.8	5229.8	5235.2	5238.0	5235.2	5229.8	5229.8	5216.0	5205.1	5194.2	5183.3
30°	4787.3	4787.3	4787.3	4801.0	4787.3	4787.3	4787.3	4784.6	4784.6	4787.3	4787.3
32.5°	4276.7	4271.1	4265.8	4271.1	4265.8	4271.1	4276.7	4279.4	4276.7	4284.9	4298.5
35°	3697.6	3694.9	3703.2	3692.3	3703.2	3694.9	3697.6	3697.6	3708.7	3719.6	3722.3
37.5°	3143.3	3137.9	3148.8	3137.9	3148.8	3137.9	3143.3	3140.6	3137.9	3143.3	3135.2
40°	2616.3	2621.7	2621.7	2643.6	2621.7	2621.7	2616.3	2610.8	2591.7	2580.8	2569.9
42.5°	2111.0	2127.4	2121.9	2138.3	2121.9	2127.4	2111.0	2100.1	2078.2	2059.1	2042.8
45°	1633.1	1644.1	1644.1	1649.5	1644.1	1644.1	1633.1	1622.2	1603.0	1586.6	1575.7
47.5°	1253.5	1253.5	1253.5	1256.3	1253.5	1253.5	1253.5	1234.3	1229.0	1218.0	1204.3
50°	953.1	955.8	958.6	961.3	958.6	955.8	953.1	947.6	944.9	939.4	936.7
52.5°	731.9	734.6	729.2	734.6	729.2	734.6	731.9	734.6	726.4	726.4	723.7
55°	554.4	551.7	554.4	557.1	554.4	551.7	554.4	554.4	551.7	551.7	551.7
57.5°	406.9	401.4	401.4	401.4	401.4	401.4	406.9	404.2	412.4	406.9	409.6
60°	303.2	305.9	305.9	308.6	305.9	305.9	303.2	308.6	308.6	311.4	311.4
62.5°	223.9	232.1	226.6	232.1	226.6	232.1	223.9	226.6	226.6	229.4	232.1
65°	144.8	144.8	144.8	147.5	144.8	144.8	144.8	147.5	150.2	147.5	155.7
67.5°	98.4	101.1	106.6	103.8	106.6	101.1	98.4	101.1	101.1	109.3	106.6
70°	79.2	71.0	71.0	79.2	71.0	71.0	79.2	73.7	71.0	76.4	73.7
72.5°	46.4	40.9	46.4	46.4	46.4	40.9	46.4	40.9	43.7	43.7	49.1
75°	24.6	21.8	19.1	27.3	19.1	21.8	24.6	24.6	24.6	24.6	27.3
77.5°	16.4	13.6	19.1	19.1	19.1	13.6	16.4	13.6	16.4	13.6	16.4
80°	8.2	10.9	8.2	13.6	8.2	10.9	8.2	13.6	8.2	10.9	10.9
82.5°	2.7	5.5	5.5	5.5	5.5	5.5	2.7	2.7	5.5	5.5	2.7
85°	0.0	5.5	2.7	2.7	2.7	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	2.7	0.0	0.0	2.7	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: P248889

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5650.3	5642.1	5644.9	5628.5	5628.5	5623.0	5625.8	5612.1	5606.7	5601.2	5609.4
5°	5732.2	5718.6	5707.6	5683.1	5669.4	5653.1	5644.9	5623.0	5603.9	5587.4	5584.7
7.5°	5797.8	5767.7	5748.6	5715.8	5691.3	5672.2	5644.9	5614.8	5590.3	5568.3	5552.0
10°	5825.1	5795.1	5765.0	5724.0	5696.7	5661.2	5633.9	5595.6	5562.9	5532.9	5513.7
12.5°	5827.8	5789.6	5762.2	5715.8	5680.3	5642.1	5612.1	5568.3	5530.1	5500.1	5470.1
15°	5803.3	5767.7	5734.9	5685.8	5650.3	5614.8	5579.3	5532.9	5497.4	5461.9	5440.1
17.5°	5748.6	5715.8	5677.6	5631.2	5598.5	5565.6	5527.4	5489.2	5448.2	5409.9	5382.6
20°	5677.6	5642.1	5609.4	5562.9	5535.6	5500.1	5464.6	5423.7	5390.8	5352.6	5322.6
22.5°	5571.1	5538.3	5508.3	5481.0	5437.3	5409.9	5385.4	5339.0	5306.2	5270.7	5238.0
25°	5418.2	5385.4	5360.8	5328.0	5308.9	5278.9	5254.3	5213.3	5183.3	5150.5	5123.2
27.5°	5166.9	5147.8	5134.1	5115.0	5098.7	5085.0	5071.4	5038.6	5016.7	4986.7	4959.4
30°	4790.0	4787.3	4779.1	4770.9	4781.8	4781.8	4781.8	4776.4	4757.3	4735.4	4716.3
32.5°	4306.7	4312.2	4323.1	4331.3	4353.1	4377.7	4399.5	4410.4	4410.4	4396.8	4388.6
35°	3730.5	3738.7	3755.1	3776.9	3804.2	3834.2	3883.3	3894.4	3902.5	3902.5	3891.5
37.5°	3132.3	3129.7	3146.1	3165.2	3181.6	3203.4	3238.9	3247.1	3260.7	3255.3	3244.3
40°	2550.6	2537.0	2531.5	2537.0	2556.1	2547.9	2556.1	2550.6	2550.6	2531.5	2531.5
42.5°	2012.7	1996.4	1985.3	1977.2	1977.2	1958.0	1944.4	1930.8	1922.6	1908.9	1906.2
45°	1551.2	1532.0	1518.4	1512.9	1504.8	1480.2	1463.8	1447.4	1428.3	1422.9	1425.6
47.5°	1204.3	1185.2	1179.7	1166.1	1152.4	1138.8	1127.9	1108.8	1106.0	1095.1	1106.0
50°	928.5	923.1	914.9	909.4	901.2	890.3	879.4	868.5	863.0	863.0	865.7
52.5°	721.0	723.7	715.5	707.3	701.9	701.9	688.2	685.5	685.5	674.6	685.5
55°	551.7	548.9	551.7	546.2	546.2	538.0	538.0	529.8	529.8	521.6	527.1
57.5°	404.2	409.6	404.2	406.9	412.4	404.2	401.4	393.2	398.7	393.2	396.0
60°	314.1	314.1	314.1	311.4	311.4	308.6	308.6	305.9	305.9	300.4	305.9
62.5°	232.1	234.8	234.8	234.8	237.6	234.8	232.1	234.8	232.1	232.1	234.8
65°	153.0	155.7	155.7	153.0	158.4	153.0	155.7	158.4	161.1	158.4	161.1
67.5°	103.8	103.8	106.6	109.3	106.6	109.3	112.0	109.3	112.0	117.5	112.0
70°	76.4	79.2	79.2	76.4	73.7	76.4	73.7	81.9	81.9	81.9	87.3
72.5°	49.1	49.1	46.4	46.4	46.4	46.4	46.4	54.6	49.1	46.4	51.9
75°	27.3	30.0	30.0	21.8	24.6	30.0	21.8	24.6	32.8	27.3	32.8
77.5°	16.4	16.4	16.4	16.4	16.4	16.4	21.8	19.1	19.1	19.1	21.8
80°	13.6	10.9	10.9	8.2	10.9	10.9	10.9	16.4	13.6	13.6	16.4
82.5°	5.5	5.5	2.7	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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: P248889

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5587.4	5587.4	5584.7	5579.3	5568.3	5568.3	5565.6	5557.4	5552.0	5549.2	5549.2
5°	5560.1	5549.2	5538.3	5508.3	5508.3	5502.8	5486.5	5475.5	5470.1	5456.4	5451.0
7.5°	5535.6	5502.8	5483.7	5464.6	5440.1	5429.1	5409.9	5401.7	5382.6	5369.0	5360.8
10°	5475.5	5453.7	5429.1	5399.0	5379.9	5358.1	5336.2	5319.9	5295.3	5281.6	5270.7
12.5°	5434.6	5401.7	5379.9	5347.1	5314.4	5295.3	5265.3	5246.2	5221.6	5194.2	5177.8
15°	5396.3	5360.8	5330.8	5295.3	5259.8	5238.0	5202.4	5180.6	5145.1	5117.8	5098.7
17.5°	5339.0	5308.9	5276.2	5232.5	5199.7	5172.4	5134.1	5106.9	5074.1	5038.6	5019.4
20°	5278.9	5243.4	5210.7	5166.9	5134.1	5101.4	5063.2	5033.2	4994.8	4962.1	4940.3
22.5°	5199.7	5158.7	5131.4	5087.7	5049.5	5014.1	4978.5	4943.0	4907.5	4880.2	4855.6
25°	5085.0	5041.3	5011.2	4975.7	4940.3	4913.0	4869.3	4847.5	4811.9	4787.3	4762.7
27.5°	4921.1	4888.4	4861.1	4825.5	4795.5	4773.7	4740.9	4719.1	4689.0	4667.2	4648.1
30°	4680.9	4653.6	4628.9	4593.4	4571.6	4552.5	4522.4	4503.3	4481.5	4456.8	4451.5
32.5°	4358.6	4336.7	4312.2	4287.6	4271.1	4260.2	4235.6	4224.7	4202.9	4189.2	4175.6
35°	3872.4	3853.3	3839.7	3828.8	3823.3	3826.0	3820.6	3831.5	3836.9	3834.2	3836.9
37.5°	3236.2	3225.2	3230.7	3238.9	3266.2	3301.7	3334.5	3383.6	3416.4	3449.2	3479.2
40°	2526.1	2534.3	2556.1	2605.3	2676.3	2755.6	2829.3	2922.1	3015.0	3080.5	3140.6
42.5°	1906.2	1930.8	1985.3	2056.4	2162.9	2280.3	2395.1	2531.5	2643.6	2752.7	2829.3
45°	1433.8	1466.5	1537.5	1635.9	1753.2	1889.8	2034.6	2187.5	2321.3	2433.3	2517.9
47.5°	1117.0	1147.0	1218.0	1321.8	1466.5	1608.6	1758.7	1917.1	2056.4	2165.6	2239.4
50°	882.1	920.3	983.1	1092.4	1237.2	1387.3	1543.0	1698.6	1829.8	1922.6	1988.2
52.5°	693.7	729.2	789.2	904.0	1051.5	1201.6	1346.3	1499.3	1613.9	1704.1	1747.8
55°	538.0	570.8	633.5	729.2	868.5	1015.9	1160.6	1291.8	1398.2	1463.8	1504.8
57.5°	409.6	434.2	478.0	573.5	699.2	835.6	958.6	1089.7	1171.6	1218.0	1245.3
60°	311.4	330.5	376.9	450.6	565.3	682.8	786.5	884.9	950.4	988.6	1015.9
62.5°	234.8	256.7	289.4	352.3	439.6	535.3	622.6	696.4	751.0	775.6	794.7
65°	161.1	177.5	202.1	251.2	325.0	393.2	461.5	516.2	551.7	579.0	589.9
67.5°	120.2	131.1	144.8	183.0	234.8	289.4	335.9	374.1	412.4	423.3	442.4
70°	90.2	98.4	112.0	139.3	169.3	207.5	245.8	267.6	295.0	314.1	319.6
72.5°	57.3	60.0	73.7	90.2	114.7	139.3	163.9	183.0	199.4	210.3	215.7
75°	32.8	49.1	49.1	65.5	81.9	92.8	109.3	122.9	131.1	139.3	139.3
77.5°	21.8	30.0	32.8	40.9	49.1	62.8	76.4	84.6	92.8	95.5	95.5
80°	19.1	21.8	21.8	30.0	35.5	46.4	54.6	57.3	62.8	65.5	71.0
82.5°	8.2	10.9	13.6	21.8	24.6	24.6	32.8	35.5	40.9	43.7	43.7
85°	2.7	5.5	5.5	8.2	13.6	16.4	19.1	21.8	24.6	24.6	27.3
87.5°	2.7	2.7	0.0	2.7	5.5	5.5	10.9	10.9	10.9	16.4	16.4
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: P248889

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5543.8	5546.5	5535.6	5532.9	5527.4	5530.1	5535.6
5°	5442.8	5445.5	5434.6	5423.7	5423.7	5420.9	5423.7
7.5°	5347.1	5349.9	5333.5	5328.0	5317.1	5319.9	5319.9
10°	5251.6	5251.6	5227.1	5224.3	5216.0	5213.3	5213.3
12.5°	5158.7	5150.5	5131.4	5120.5	5126.0	5109.6	5109.6
15°	5076.8	5063.2	5038.6	5030.3	5016.7	5011.2	5011.2
17.5°	4992.1	4981.2	4959.4	4943.0	4926.6	4923.9	4926.6
20°	4910.2	4899.3	4872.0	4861.1	4847.5	4847.5	4842.0
22.5°	4828.2	4817.3	4792.8	4784.6	4765.5	4765.5	4768.2
25°	4743.6	4735.4	4708.1	4702.7	4700.0	4689.0	4694.5
27.5°	4628.9	4623.4	4601.6	4593.4	4582.5	4579.8	4585.2
30°	4418.6	4410.4	4394.1	4385.9	4366.8	4369.5	4374.9
32.5°	4156.5	4145.6	4123.7	4115.5	4099.2	4093.7	4096.4
35°	3828.8	3820.6	3801.5	3801.5	3785.1	3779.6	3785.1
37.5°	3495.6	3503.7	3495.6	3503.7	3495.6	3492.8	3495.6
40°	3181.6	3211.6	3217.0	3247.1	3236.2	3252.5	3249.8
42.5°	2881.1	2930.2	2949.5	2974.0	2968.6	2979.5	2987.7
45°	2578.0	2619.0	2638.1	2654.5	2657.2	2662.7	2665.4
47.5°	2291.2	2324.0	2326.7	2345.8	2343.1	2343.1	2351.3
50°	2023.7	2045.5	2050.9	2064.6	2053.7	2048.2	2050.9
52.5°	1775.1	1796.9	1791.4	1796.9	1783.3	1777.8	1780.5
55°	1521.1	1532.0	1532.0	1532.0	1515.7	1515.7	1515.7
57.5°	1261.7	1264.5	1259.0	1261.7	1259.0	1242.6	1239.9
60°	1024.1	1024.1	1021.3	1024.1	1015.9	1007.7	1007.7
62.5°	800.1	805.6	816.5	805.6	800.1	805.6	797.4
65°	598.1	609.0	606.2	611.7	609.0	609.0	603.5
67.5°	450.6	453.3	456.0	458.8	458.8	458.8	458.8
70°	330.5	338.7	335.9	335.9	335.9	335.9	352.3
72.5°	221.2	232.1	229.4	234.8	234.8	240.3	234.8
75°	150.2	161.1	155.7	163.9	161.1	155.7	169.3
77.5°	101.1	106.6	109.3	112.0	109.3	106.6	109.3
80°	71.0	76.4	73.7	76.4	76.4	76.4	79.2
82.5°	43.7	51.9	49.1	51.9	49.1	51.9	51.9
85°	30.0	32.8	27.3	32.8	30.0	30.0	35.5
87.5°	19.1	16.4	16.4	19.1	16.4	19.1	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)