

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: P248772

Luminaire Tested: **LD8B120D010 ER8B120830 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248772  
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 ER8B120830 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10974.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 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

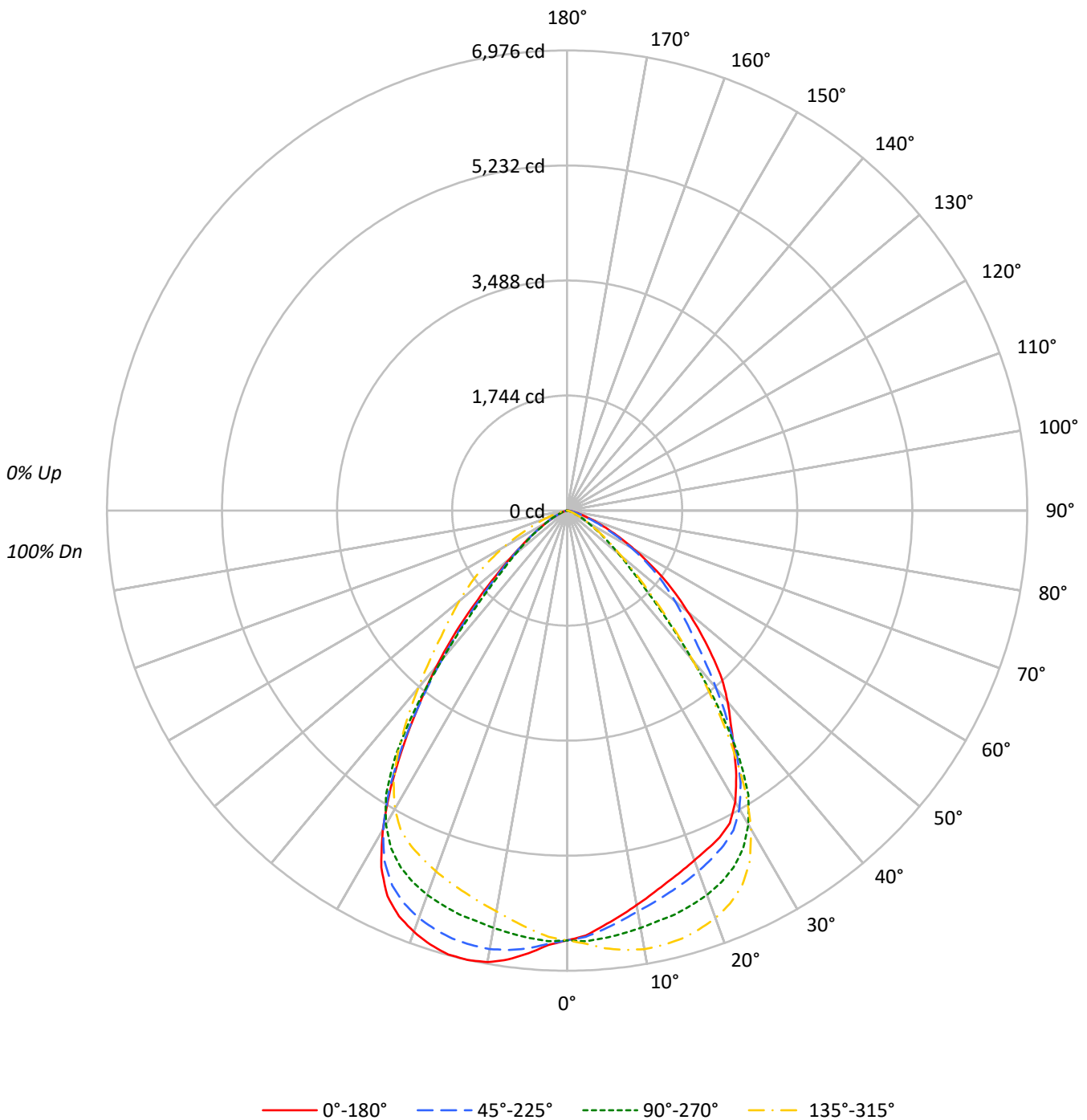
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	200896	200896	200896	200896
5°	195559	201369	208556	201369
10°	190148	201105	217640	201105
15°	186351	202297	222402	202297
20°	185082	203455	222977	203455
25°	186054	203046	219391	203046
30°	181455	195613	199131	195613
35°	165977	170641	161904	170641
40°	152381	118701	123958	118701
45°	135398	72413	83791	72413
50°	114607	48371	53720	48371
55°	94921	33010	34886	33010
60°	72397	21974	22165	21974
65°	51294	13688	12535	13688
70°	37001	9169	8322	9169
75°	23495	4551	3789	4551
80°	16391	3392	2806	3392
85°	14648	0	1097	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.1	5.7
10°-20°	1795.7	16.4
20°-30°	2719.1	24.8
30°-40°	2725.2	24.8
40°-50°	1711.3	15.6
50°-60°	911.9	8.3
60°-70°	375.0	3.4
70°-80°	99.1	0.9
80°-90°	16.7	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°	5134.8	46.8
0°-40°	7860.0	71.6
0°-60°	10483.2	95.5
0°-90°	10974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6515	6515	6515	6515	6515	
5°	6318	6505	6738	6505	6318	596
15°	5837	6337	6967	6337	5837	1651
25°	5468	5968	6448	5968	5468	2508
35°	4409	4533	4301	4533	4409	2762
45°	3105	1660	1921	1660	3105	2388
55°	1766	614	649	614	1766	1574
65°	703	188	172	188	703	729
75°	197	38	32	38	197	223
85°	41	0	3	0	41	45
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°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6448.1	6441.7	6438.6	6445.0	6448.1	6460.8	6457.7	6464.0	6464.0	6467.3	6473.5
5°	6317.7	6314.5	6317.7	6317.7	6330.4	6343.1	6340.0	6349.5	6355.8	6371.8	6378.1
7.5°	6196.9	6196.9	6193.6	6206.3	6212.7	6231.8	6228.6	6244.5	6254.1	6269.9	6292.2
10°	6072.7	6072.7	6075.9	6085.4	6088.7	6117.3	6117.3	6139.5	6152.2	6168.2	6196.9
12.5°	5951.9	5951.9	5971.0	5964.6	5977.3	5999.5	6009.1	6031.4	6050.5	6082.3	6111.0
15°	5837.3	5837.3	5843.7	5859.6	5869.1	5897.8	5913.7	5939.2	5961.4	5993.3	6034.6
17.5°	5738.7	5735.6	5738.7	5757.8	5777.0	5802.4	5815.1	5846.9	5869.1	5910.5	5948.7
20°	5640.1	5646.5	5646.5	5662.4	5675.1	5706.9	5719.6	5754.7	5780.1	5818.2	5862.8
22.5°	5554.2	5551.1	5551.1	5573.3	5582.9	5611.4	5624.1	5656.0	5684.6	5716.5	5757.8
25°	5468.3	5461.9	5474.8	5477.9	5484.2	5516.0	5525.6	5547.8	5576.5	5605.2	5646.5
27.5°	5341.1	5334.8	5337.9	5350.6	5360.2	5385.6	5392.0	5414.3	5436.5	5461.9	5497.0
30°	5096.1	5089.8	5086.7	5108.9	5118.5	5137.5	5147.0	5185.2	5191.5	5220.2	5245.6
32.5°	4771.6	4768.5	4774.9	4793.9	4803.4	4829.0	4841.7	4863.9	4879.8	4895.7	4921.1
35°	4409.1	4402.6	4409.1	4428.2	4428.2	4450.4	4460.0	4469.4	4466.3	4469.4	4463.1
37.5°	4071.9	4068.6	4071.9	4081.3	4071.9	4081.3	4071.9	4052.8	4017.8	3979.6	3941.3
40°	3785.5	3788.7	3769.7	3782.4	3747.3	3741.0	3706.0	3658.3	3588.3	3512.0	3403.8
42.5°	3480.2	3470.6	3457.9	3464.2	3435.7	3413.3	3356.1	3295.7	3206.5	3079.4	2948.8
45°	3104.8	3101.6	3095.2	3092.1	3073.0	3050.7	3002.9	2933.0	2834.4	2704.0	2548.0
47.5°	2738.9	2729.4	2729.4	2732.5	2710.3	2707.1	2668.9	2608.5	2522.6	2395.4	2233.1
50°	2389.0	2385.8	2392.2	2404.9	2389.0	2382.7	2357.3	2315.9	2239.6	2131.4	1978.6
52.5°	2074.0	2070.9	2077.3	2093.2	2086.7	2093.2	2067.8	2035.9	1985.0	1880.0	1746.4
55°	1765.6	1765.6	1765.6	1784.5	1784.5	1784.5	1771.8	1752.9	1705.1	1628.7	1504.7
57.5°	1444.2	1447.4	1466.5	1469.6	1466.5	1472.9	1469.6	1450.5	1418.8	1364.8	1269.3
60°	1173.9	1173.9	1183.4	1193.0	1189.7	1193.0	1193.0	1183.4	1151.6	1107.1	1030.7
62.5°	928.9	938.4	932.0	938.4	951.1	938.4	932.0	925.7	903.5	874.8	811.2
65°	703.0	709.4	709.4	712.6	706.1	709.4	696.7	687.2	674.5	642.6	601.3
67.5°	534.5	534.5	534.5	534.5	531.2	528.1	524.9	515.4	493.1	480.4	435.8
70°	410.4	391.2	391.2	391.2	391.2	394.5	385.0	372.3	365.8	343.6	311.8
72.5°	273.5	279.9	273.5	273.5	267.2	270.4	257.7	251.3	245.0	232.3	213.2
75°	197.2	181.3	187.6	190.9	181.3	187.6	174.9	162.2	162.2	152.7	143.1
77.5°	127.3	124.1	127.3	130.4	127.3	124.1	117.7	111.3	111.3	108.2	98.6
80°	92.3	89.0	89.0	89.0	85.9	89.0	82.8	82.8	76.3	73.2	66.8
82.5°	60.5	60.5	57.2	60.5	57.2	60.5	50.9	50.9	50.9	47.7	41.4
85°	41.4	35.0	35.0	38.2	31.8	38.2	35.0	31.8	28.7	28.7	25.4
87.5°	19.1	22.3	19.1	22.3	19.1	19.1	22.3	19.1	19.1	12.7	12.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6483.1	6486.2	6486.2	6499.1	6505.4	6508.5	6508.5	6534.0	6524.5	6530.9	6537.2
5°	6390.9	6409.9	6416.3	6416.3	6451.3	6464.0	6476.7	6505.4	6508.5	6527.6	6549.9
7.5°	6301.8	6324.0	6336.8	6365.4	6387.6	6409.9	6448.1	6467.3	6486.2	6511.8	6540.3
10°	6215.9	6241.4	6266.8	6289.0	6324.0	6352.7	6378.1	6422.6	6445.0	6480.0	6518.1
12.5°	6133.2	6168.2	6190.5	6228.6	6266.8	6292.2	6330.4	6371.8	6406.8	6441.7	6486.2
15°	6060.0	6101.4	6126.8	6168.2	6209.6	6244.5	6285.9	6336.8	6362.2	6403.6	6445.0
17.5°	5980.4	6025.1	6056.9	6095.0	6145.9	6184.0	6219.1	6269.9	6301.8	6346.3	6394.1
20°	5897.8	5942.3	5980.4	6018.7	6069.6	6107.7	6149.1	6200.0	6235.0	6279.5	6317.7
22.5°	5799.2	5840.6	5881.8	5926.4	5977.3	6009.1	6056.9	6101.4	6139.5	6180.9	6219.1
25°	5671.9	5722.9	5754.7	5795.9	5837.3	5872.3	5923.2	5967.7	5999.5	6037.8	6072.7
27.5°	5522.4	5560.6	5586.0	5621.0	5662.4	5694.2	5732.3	5777.0	5808.8	5843.7	5869.1
30°	5267.9	5303.0	5325.2	5350.6	5392.0	5420.7	5452.5	5493.7	5516.0	5541.5	5563.8
32.5°	4933.8	4962.5	4975.2	4994.3	5023.0	5051.6	5077.1	5112.1	5121.6	5137.5	5137.5
35°	4450.4	4456.7	4453.6	4460.0	4472.7	4488.5	4510.8	4533.0	4545.8	4545.8	4536.3
37.5°	3884.1	3846.0	3804.6	3772.8	3763.3	3756.9	3769.7	3779.1	3791.9	3798.2	3782.4
40°	3295.7	3209.8	3117.5	3034.7	2977.5	2952.1	2942.6	2948.8	2948.8	2971.1	2971.1
42.5°	2789.9	2656.2	2519.5	2395.4	2312.6	2249.1	2220.4	2220.4	2223.6	2239.6	2249.1
45°	2370.0	2201.3	2042.2	1905.5	1791.0	1708.2	1670.1	1660.5	1657.4	1663.7	1685.9
47.5°	2048.6	1873.7	1708.2	1539.7	1418.8	1336.1	1301.1	1288.3	1275.6	1288.3	1291.6
50°	1797.4	1616.0	1441.1	1272.4	1145.2	1072.0	1027.5	1008.3	1005.2	1005.2	1011.6
52.5°	1568.2	1399.7	1224.8	1053.0	919.3	849.4	808.0	798.5	785.8	798.5	798.5
55°	1351.9	1183.4	1011.6	849.4	738.0	664.9	626.7	614.0	607.5	617.1	617.1
57.5°	1116.6	973.4	814.4	668.0	556.7	505.8	477.1	461.3	458.0	464.4	458.0
60°	916.2	795.3	658.5	524.9	439.0	385.0	362.7	356.3	349.9	356.3	356.3
62.5°	725.3	623.5	512.1	410.4	337.2	299.1	273.5	273.5	270.4	270.4	273.5
65°	537.6	458.0	378.5	292.6	235.4	206.7	187.6	187.6	184.5	187.6	184.5
67.5°	391.2	337.2	273.5	213.2	168.6	152.7	140.0	130.4	136.8	130.4	127.3
70°	286.4	241.7	197.2	162.2	130.4	114.6	105.0	101.7	95.5	95.5	95.5
72.5°	190.9	162.2	133.6	105.0	85.9	69.9	66.8	60.5	54.1	57.2	63.6
75°	127.3	108.2	95.5	76.3	57.2	57.2	38.2	38.2	31.8	38.2	28.7
77.5°	89.0	73.2	57.2	47.7	38.2	35.0	25.4	25.4	22.3	22.3	22.3
80°	63.6	54.1	41.4	35.0	25.4	25.4	22.3	19.1	15.8	15.8	19.1
82.5°	38.2	28.7	28.7	25.4	15.8	12.7	9.6	12.7	6.4	6.4	6.4
85°	22.3	19.1	15.8	9.6	6.4	6.4	3.1	0.0	3.1	3.1	0.0
87.5°	12.7	6.4	6.4	3.1	0.0	3.1	3.1	0.0	0.0	0.0	6.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6553.1	6549.9	6556.3	6556.3	6575.4	6572.1	6581.7	6581.7	6575.4	6578.6	6591.3
5°	6575.4	6585.0	6604.0	6619.9	6648.5	6661.3	6677.1	6693.1	6696.3	6705.8	6715.4
7.5°	6575.4	6607.2	6629.5	6658.0	6696.3	6718.5	6753.5	6782.2	6794.9	6810.7	6829.8
10°	6562.6	6594.4	6635.8	6667.6	6715.4	6750.3	6785.3	6829.8	6848.9	6874.3	6899.9
12.5°	6537.2	6572.1	6616.7	6658.0	6712.1	6743.9	6788.4	6829.8	6858.5	6893.5	6922.1
15°	6499.1	6540.3	6581.7	6623.1	6680.3	6718.5	6759.9	6807.6	6836.2	6874.3	6899.9
17.5°	6438.6	6483.1	6521.3	6559.4	6613.5	6658.0	6696.3	6740.8	6769.5	6801.3	6836.2
20°	6365.4	6406.8	6448.1	6480.0	6534.0	6572.1	6613.5	6654.9	6677.1	6683.6	6737.6
22.5°	6273.2	6301.8	6333.6	6384.5	6416.3	6451.3	6489.5	6527.6	6549.9	6585.0	6604.0
25°	6120.4	6149.1	6184.0	6206.3	6244.5	6273.2	6311.3	6352.7	6365.4	6390.9	6409.9
27.5°	5907.4	5923.2	5939.2	5958.2	5980.4	5996.4	6018.7	6037.8	6050.5	6063.2	6075.9
30°	5570.1	5570.1	5570.1	5557.4	5566.9	5576.5	5579.6	5576.5	5576.5	5573.3	5573.3
32.5°	5124.8	5099.4	5070.7	5045.3	5035.7	5023.0	5016.6	5007.0	4991.2	4981.6	4984.8
35°	4523.5	4466.3	4431.3	4399.5	4374.1	4355.0	4345.4	4335.9	4332.7	4320.0	4307.2
37.5°	3772.8	3731.5	3706.0	3686.9	3664.7	3645.6	3648.7	3652.0	3661.4	3655.1	3658.3
40°	2977.5	2968.0	2977.5	2955.3	2948.8	2955.3	2971.1	2993.5	3006.2	3018.9	3041.1
42.5°	2265.0	2280.8	2303.2	2303.2	2312.6	2325.4	2344.4	2379.5	2398.5	2420.8	2446.3
45°	1705.1	1724.2	1752.9	1762.3	1768.7	1784.5	1806.9	1835.5	1848.2	1867.3	1889.6
47.5°	1313.8	1326.5	1342.4	1358.3	1374.2	1380.6	1402.9	1402.9	1418.8	1431.5	1437.8
50°	1024.3	1037.0	1049.7	1059.3	1065.7	1075.3	1081.5	1091.1	1094.2	1100.7	1103.8
52.5°	801.6	817.6	817.6	823.9	833.4	843.0	839.8	843.0	846.1	846.1	855.7
55°	626.7	626.7	636.2	636.2	642.6	639.4	642.6	642.6	642.6	642.6	645.8
57.5°	467.6	470.9	480.4	474.0	470.9	477.1	470.9	477.1	474.0	480.4	470.9
60°	359.4	359.4	362.7	362.7	365.8	365.8	365.8	362.7	362.7	359.4	359.4
62.5°	270.4	273.5	276.8	273.5	273.5	273.5	270.4	270.4	267.2	264.0	264.0
65°	181.3	178.2	184.5	178.2	181.3	181.3	178.2	181.3	171.8	174.9	171.8
67.5°	130.4	127.3	124.1	127.3	124.1	120.9	120.9	124.1	127.3	117.7	117.7
70°	85.9	89.0	85.9	89.0	92.3	92.3	89.0	85.9	89.0	82.8	85.9
72.5°	54.1	54.1	54.1	54.1	54.1	57.2	57.2	57.2	50.9	50.9	47.7
75°	25.4	35.0	28.7	25.4	35.0	35.0	31.8	31.8	28.7	28.7	28.7
77.5°	25.4	19.1	19.1	19.1	19.1	19.1	19.1	19.1	15.8	19.1	15.8
80°	12.7	12.7	12.7	9.6	12.7	12.7	15.8	12.7	12.7	9.6	15.8
82.5°	6.4	6.4	6.4	0.0	3.1	6.4	6.4	3.1	6.4	6.4	3.1
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: P248772

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6588.1	6585.0	6588.1	6591.3	6588.1	6585.0	6588.1	6591.3	6578.6	6575.4	6581.7
5°	6728.1	6728.1	6734.4	6737.6	6734.4	6728.1	6728.1	6715.4	6705.8	6696.3	6693.1
7.5°	6848.9	6855.4	6861.6	6864.8	6861.6	6855.4	6848.9	6829.8	6810.7	6794.9	6782.2
10°	6922.1	6931.7	6944.4	6950.7	6944.4	6931.7	6922.1	6899.9	6874.3	6848.9	6829.8
12.5°	6953.9	6963.5	6979.4	6976.2	6979.4	6963.5	6953.9	6922.1	6893.5	6858.5	6829.8
15°	6931.7	6944.4	6960.2	6966.6	6960.2	6944.4	6931.7	6899.9	6874.3	6836.2	6807.6
17.5°	6861.6	6880.8	6890.3	6899.9	6890.3	6880.8	6861.6	6836.2	6801.3	6769.5	6740.8
20°	6766.2	6779.0	6791.7	6794.9	6791.7	6779.0	6766.2	6737.6	6683.6	6677.1	6654.9
22.5°	6629.5	6639.0	6667.6	6658.0	6667.6	6639.0	6629.5	6604.0	6585.0	6549.9	6527.6
25°	6432.2	6441.7	6445.0	6448.1	6445.0	6441.7	6432.2	6409.9	6390.9	6365.4	6352.7
27.5°	6091.9	6091.9	6098.1	6101.4	6098.1	6091.9	6091.9	6075.9	6063.2	6050.5	6037.8
30°	5576.5	5576.5	5576.5	5592.5	5576.5	5576.5	5576.5	5573.3	5573.3	5576.5	5576.5
32.5°	4981.6	4975.2	4968.9	4975.2	4968.9	4975.2	4981.6	4984.8	4981.6	4991.2	5007.0
35°	4307.2	4304.0	4313.6	4300.9	4313.6	4304.0	4307.2	4307.2	4320.0	4332.7	4335.9
37.5°	3661.4	3655.1	3667.8	3655.1	3667.8	3655.1	3661.4	3658.3	3655.1	3661.4	3652.0
40°	3047.6	3053.9	3053.9	3079.4	3053.9	3053.9	3047.6	3041.1	3018.9	3006.2	2993.5
42.5°	2459.0	2478.1	2471.7	2490.8	2471.7	2478.1	2459.0	2446.3	2420.8	2398.5	2379.5
45°	1902.3	1915.1	1915.1	1921.4	1915.1	1915.1	1902.3	1889.6	1867.3	1848.2	1835.5
47.5°	1460.1	1460.1	1460.1	1463.4	1460.1	1460.1	1460.1	1437.8	1431.5	1418.8	1402.9
50°	1110.2	1113.4	1116.6	1119.8	1116.6	1113.4	1110.2	1103.8	1100.7	1094.2	1091.1
52.5°	852.5	855.7	849.4	855.7	849.4	855.7	852.5	855.7	846.1	846.1	843.0
55°	645.8	642.6	645.8	648.9	645.8	642.6	645.8	645.8	642.6	642.6	642.6
57.5°	474.0	467.6	467.6	467.6	467.6	467.6	474.0	470.9	480.4	474.0	477.1
60°	353.1	356.3	356.3	359.4	356.3	356.3	353.1	359.4	359.4	362.7	362.7
62.5°	260.8	270.4	264.0	270.4	264.0	270.4	260.8	264.0	264.0	267.2	270.4
65°	168.6	168.6	168.6	171.8	168.6	168.6	168.6	171.8	174.9	171.8	181.3
67.5°	114.6	117.7	124.1	120.9	124.1	117.7	114.6	117.7	117.7	127.3	124.1
70°	92.3	82.8	82.8	92.3	82.8	82.8	92.3	85.9	82.8	89.0	85.9
72.5°	54.1	47.7	54.1	54.1	54.1	47.7	54.1	47.7	50.9	50.9	57.2
75°	28.7	25.4	22.3	31.8	22.3	25.4	28.7	28.7	28.7	28.7	31.8
77.5°	19.1	15.8	22.3	22.3	22.3	15.8	19.1	15.8	19.1	15.8	19.1
80°	9.6	12.7	9.6	15.8	9.6	12.7	9.6	15.8	9.6	12.7	12.7
82.5°	3.1	6.4	6.4	6.4	6.4	6.4	3.1	3.1	6.4	6.4	3.1
85°	0.0	6.4	3.1	3.1	3.1	6.4	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	0.0	3.1	0.0	0.0	3.1	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: P248772

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6581.7	6572.1	6575.4	6556.3	6556.3	6549.9	6553.1	6537.2	6530.9	6524.5	6534.0
5°	6677.1	6661.3	6648.5	6619.9	6604.0	6585.0	6575.4	6549.9	6527.6	6508.5	6505.4
7.5°	6753.5	6718.5	6696.3	6658.0	6629.5	6607.2	6575.4	6540.3	6511.8	6486.2	6467.3
10°	6785.3	6750.3	6715.4	6667.6	6635.8	6594.4	6562.6	6518.1	6480.0	6445.0	6422.6
12.5°	6788.4	6743.9	6712.1	6658.0	6616.7	6572.1	6537.2	6486.2	6441.7	6406.8	6371.8
15°	6759.9	6718.5	6680.3	6623.1	6581.7	6540.3	6499.1	6445.0	6403.6	6362.2	6336.8
17.5°	6696.3	6658.0	6613.5	6559.4	6521.3	6483.1	6438.6	6394.1	6346.3	6301.8	6269.9
20°	6613.5	6572.1	6534.0	6480.0	6448.1	6406.8	6365.4	6317.7	6279.5	6235.0	6200.0
22.5°	6489.5	6451.3	6416.3	6384.5	6333.6	6301.8	6273.2	6219.1	6180.9	6139.5	6101.4
25°	6311.3	6273.2	6244.5	6206.3	6184.0	6149.1	6120.4	6072.7	6037.8	5999.5	5967.7
27.5°	6018.7	5996.4	5980.4	5958.2	5939.2	5923.2	5907.4	5869.1	5843.7	5808.8	5777.0
30°	5579.6	5576.5	5566.9	5557.4	5570.1	5570.1	5570.1	5563.8	5541.5	5516.0	5493.7
32.5°	5016.6	5023.0	5035.7	5045.3	5070.7	5099.4	5124.8	5137.5	5137.5	5121.6	5112.1
35°	4345.4	4355.0	4374.1	4399.5	4431.3	4466.3	4523.5	4536.3	4545.8	4545.8	4533.0
37.5°	3648.7	3645.6	3664.7	3686.9	3706.0	3731.5	3772.8	3782.4	3798.2	3791.9	3779.1
40°	2971.1	2955.3	2948.8	2955.3	2977.5	2968.0	2977.5	2971.1	2971.1	2948.8	2948.8
42.5°	2344.4	2325.4	2312.6	2303.2	2303.2	2280.8	2265.0	2249.1	2239.6	2223.6	2220.4
45°	1806.9	1784.5	1768.7	1762.3	1752.9	1724.2	1705.1	1685.9	1663.7	1657.4	1660.5
47.5°	1402.9	1380.6	1374.2	1358.3	1342.4	1326.5	1313.8	1291.6	1288.3	1275.6	1288.3
50°	1081.5	1075.3	1065.7	1059.3	1049.7	1037.0	1024.3	1011.6	1005.2	1005.2	1008.3
52.5°	839.8	843.0	833.4	823.9	817.6	817.6	801.6	798.5	798.5	785.8	798.5
55°	642.6	639.4	642.6	636.2	636.2	626.7	626.7	617.1	617.1	607.5	614.0
57.5°	470.9	477.1	470.9	474.0	480.4	470.9	467.6	458.0	464.4	458.0	461.3
60°	365.8	365.8	365.8	362.7	362.7	359.4	359.4	356.3	356.3	349.9	356.3
62.5°	270.4	273.5	273.5	273.5	276.8	273.5	270.4	273.5	270.4	270.4	273.5
65°	178.2	181.3	181.3	178.2	184.5	178.2	181.3	184.5	187.6	184.5	187.6
67.5°	120.9	120.9	124.1	127.3	124.1	127.3	130.4	127.3	130.4	136.8	130.4
70°	89.0	92.3	92.3	89.0	85.9	89.0	85.9	95.5	95.5	95.5	101.7
72.5°	57.2	57.2	54.1	54.1	54.1	54.1	54.1	63.6	57.2	54.1	60.5
75°	31.8	35.0	35.0	25.4	28.7	35.0	25.4	28.7	38.2	31.8	38.2
77.5°	19.1	19.1	19.1	19.1	19.1	19.1	25.4	22.3	22.3	22.3	25.4
80°	15.8	12.7	12.7	9.6	12.7	12.7	12.7	19.1	15.8	15.8	19.1
82.5°	6.4	6.4	3.1	0.0	6.4	6.4	6.4	6.4	6.4	6.4	12.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	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: P248772

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6508.5	6508.5	6505.4	6499.1	6486.2	6486.2	6483.1	6473.5	6467.3	6464.0	6464.0
5°	6476.7	6464.0	6451.3	6416.3	6416.3	6409.9	6390.9	6378.1	6371.8	6355.8	6349.5
7.5°	6448.1	6409.9	6387.6	6365.4	6336.8	6324.0	6301.8	6292.2	6269.9	6254.1	6244.5
10°	6378.1	6352.7	6324.0	6289.0	6266.8	6241.4	6215.9	6196.9	6168.2	6152.2	6139.5
12.5°	6330.4	6292.2	6266.8	6228.6	6190.5	6168.2	6133.2	6111.0	6082.3	6050.5	6031.4
15°	6285.9	6244.5	6209.6	6168.2	6126.8	6101.4	6060.0	6034.6	5993.3	5961.4	5939.2
17.5°	6219.1	6184.0	6145.9	6095.0	6056.9	6025.1	5980.4	5948.7	5910.5	5869.1	5846.9
20°	6149.1	6107.7	6069.6	6018.7	5980.4	5942.3	5897.8	5862.8	5818.2	5780.1	5754.7
22.5°	6056.9	6009.1	5977.3	5926.4	5881.8	5840.6	5799.2	5757.8	5716.5	5684.6	5656.0
25°	5923.2	5872.3	5837.3	5795.9	5754.7	5722.9	5671.9	5646.5	5605.2	5576.5	5547.8
27.5°	5732.3	5694.2	5662.4	5621.0	5586.0	5560.6	5522.4	5497.0	5461.9	5436.5	5414.3
30°	5452.5	5420.7	5392.0	5350.6	5325.2	5303.0	5267.9	5245.6	5220.2	5191.5	5185.2
32.5°	5077.1	5051.6	5023.0	4994.3	4975.2	4962.5	4933.8	4921.1	4895.7	4879.8	4863.9
35°	4510.8	4488.5	4472.7	4460.0	4453.6	4456.7	4450.4	4463.1	4469.4	4466.3	4469.4
37.5°	3769.7	3756.9	3763.3	3772.8	3804.6	3846.0	3884.1	3941.3	3979.6	4017.8	4052.8
40°	2942.6	2952.1	2977.5	3034.7	3117.5	3209.8	3295.7	3403.8	3512.0	3588.3	3658.3
42.5°	2220.4	2249.1	2312.6	2395.4	2519.5	2656.2	2789.9	2948.8	3079.4	3206.5	3295.7
45°	1670.1	1708.2	1791.0	1905.5	2042.2	2201.3	2370.0	2548.0	2704.0	2834.4	2933.0
47.5°	1301.1	1336.1	1418.8	1539.7	1708.2	1873.7	2048.6	2233.1	2395.4	2522.6	2608.5
50°	1027.5	1072.0	1145.2	1272.4	1441.1	1616.0	1797.4	1978.6	2131.4	2239.6	2315.9
52.5°	808.0	849.4	919.3	1053.0	1224.8	1399.7	1568.2	1746.4	1880.0	1985.0	2035.9
55°	626.7	664.9	738.0	849.4	1011.6	1183.4	1351.9	1504.7	1628.7	1705.1	1752.9
57.5°	477.1	505.8	556.7	668.0	814.4	973.4	1116.6	1269.3	1364.8	1418.8	1450.5
60°	362.7	385.0	439.0	524.9	658.5	795.3	916.2	1030.7	1107.1	1151.6	1183.4
62.5°	273.5	299.1	337.2	410.4	512.1	623.5	725.3	811.2	874.8	903.5	925.7
65°	187.6	206.7	235.4	292.6	378.5	458.0	537.6	601.3	642.6	674.5	687.2
67.5°	140.0	152.7	168.6	213.2	273.5	337.2	391.2	435.8	480.4	493.1	515.4
70°	105.0	114.6	130.4	162.2	197.2	241.7	286.4	311.8	343.6	365.8	372.3
72.5°	66.8	69.9	85.9	105.0	133.6	162.2	190.9	213.2	232.3	245.0	251.3
75°	38.2	57.2	57.2	76.3	95.5	108.2	127.3	143.1	152.7	162.2	162.2
77.5°	25.4	35.0	38.2	47.7	57.2	73.2	89.0	98.6	108.2	111.3	111.3
80°	22.3	25.4	25.4	35.0	41.4	54.1	63.6	66.8	73.2	76.3	82.8
82.5°	9.6	12.7	15.8	25.4	28.7	28.7	38.2	41.4	47.7	50.9	50.9
85°	3.1	6.4	6.4	9.6	15.8	19.1	22.3	25.4	28.7	28.7	31.8
87.5°	3.1	3.1	0.0	3.1	6.4	6.4	12.7	12.7	12.7	19.1	19.1
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: P248772

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6457.7	6460.8	6448.1	6445.0	6438.6	6441.7	6448.1
5°	6340.0	6343.1	6330.4	6317.7	6317.7	6314.5	6317.7
7.5°	6228.6	6231.8	6212.7	6206.3	6193.6	6196.9	6196.9
10°	6117.3	6117.3	6088.7	6085.4	6075.9	6072.7	6072.7
12.5°	6009.1	5999.5	5977.3	5964.6	5971.0	5951.9	5951.9
15°	5913.7	5897.8	5869.1	5859.6	5843.7	5837.3	5837.3
17.5°	5815.1	5802.4	5777.0	5757.8	5738.7	5735.6	5738.7
20°	5719.6	5706.9	5675.1	5662.4	5646.5	5646.5	5640.1
22.5°	5624.1	5611.4	5582.9	5573.3	5551.1	5551.1	5554.2
25°	5525.6	5516.0	5484.2	5477.9	5474.8	5461.9	5468.3
27.5°	5392.0	5385.6	5360.2	5350.6	5337.9	5334.8	5341.1
30°	5147.0	5137.5	5118.5	5108.9	5086.7	5089.8	5096.1
32.5°	4841.7	4829.0	4803.4	4793.9	4774.9	4768.5	4771.6
35°	4460.0	4450.4	4428.2	4428.2	4409.1	4402.6	4409.1
37.5°	4071.9	4081.3	4071.9	4081.3	4071.9	4068.6	4071.9
40°	3706.0	3741.0	3747.3	3782.4	3769.7	3788.7	3785.5
42.5°	3356.1	3413.3	3435.7	3464.2	3457.9	3470.6	3480.2
45°	3002.9	3050.7	3073.0	3092.1	3095.2	3101.6	3104.8
47.5°	2668.9	2707.1	2710.3	2732.5	2729.4	2729.4	2738.9
50°	2357.3	2382.7	2389.0	2404.9	2392.2	2385.8	2389.0
52.5°	2067.8	2093.2	2086.7	2093.2	2077.3	2070.9	2074.0
55°	1771.8	1784.5	1784.5	1784.5	1765.6	1765.6	1765.6
57.5°	1469.6	1472.9	1466.5	1469.6	1466.5	1447.4	1444.2
60°	1193.0	1193.0	1189.7	1193.0	1183.4	1173.9	1173.9
62.5°	932.0	938.4	951.1	938.4	932.0	938.4	928.9
65°	696.7	709.4	706.1	712.6	709.4	709.4	703.0
67.5°	524.9	528.1	531.2	534.5	534.5	534.5	534.5
70°	385.0	394.5	391.2	391.2	391.2	391.2	410.4
72.5°	257.7	270.4	267.2	273.5	273.5	279.9	273.5
75°	174.9	187.6	181.3	190.9	187.6	181.3	197.2
77.5°	117.7	124.1	127.3	130.4	127.3	124.1	127.3
80°	82.8	89.0	85.9	89.0	89.0	89.0	92.3
82.5°	50.9	60.5	57.2	60.5	57.2	60.5	60.5
85°	35.0	38.2	31.8	38.2	35.0	35.0	41.4
87.5°	22.3	19.1	19.1	22.3	19.1	22.3	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)