

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: P248781

Luminaire Tested: **LD8B120D010 ER8B120835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248781
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11412.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

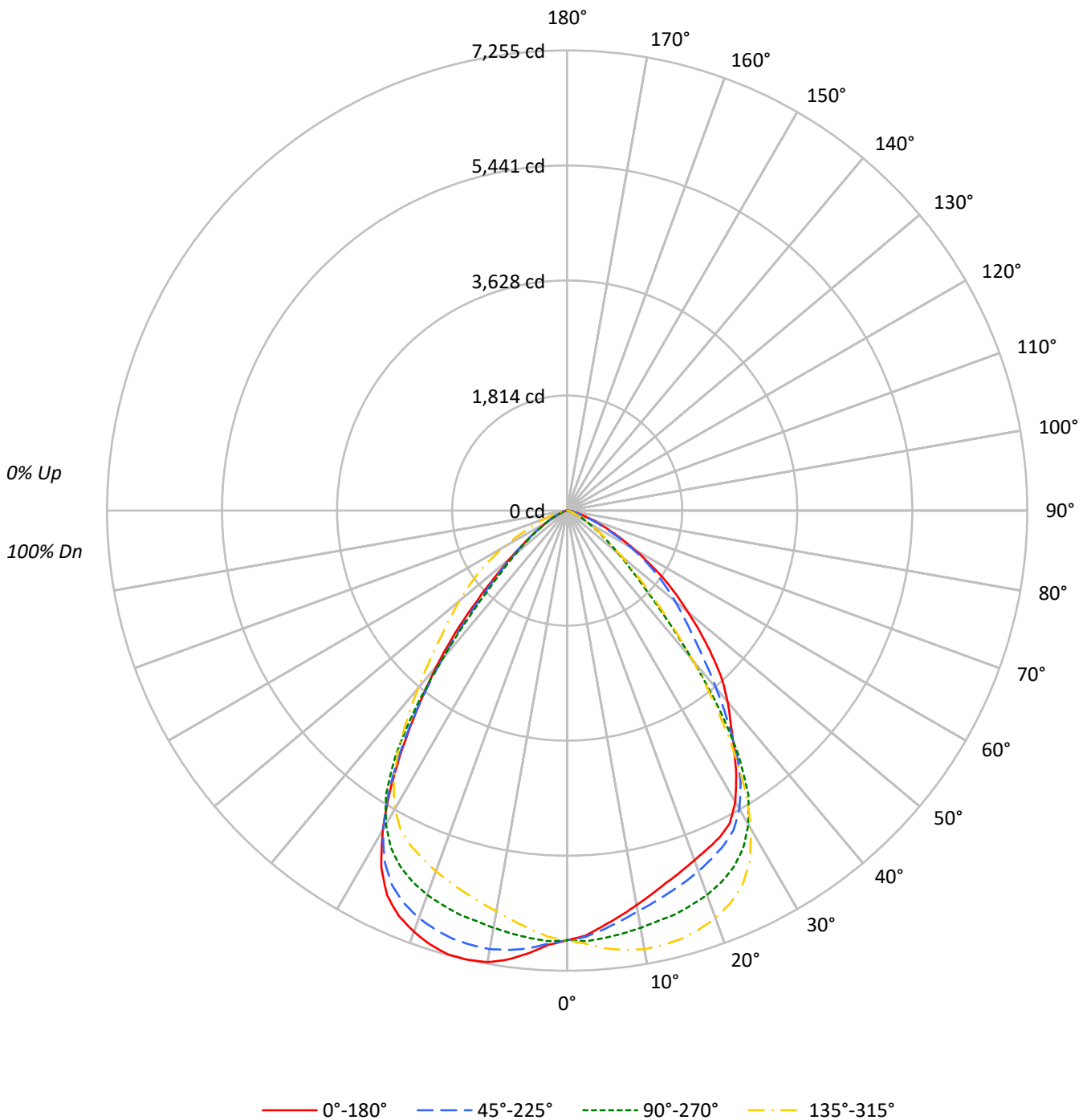
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	208913	208913	208913	208913
5°	203365	209405	216883	209405
10°	197739	209130	226326	209130
15°	193789	210373	231281	210373
20°	192468	211577	231876	211577
25°	193481	211150	228149	211150
30°	188698	203421	207078	203421
35°	172599	177455	168367	177455
40°	158464	123439	128905	123439
45°	140801	75304	87135	75304
50°	119179	50304	55864	50304
55°	98706	34327	36278	34327
60°	75284	22850	23053	22850
65°	53345	14235	13032	14235
70°	38471	9539	8655	9539
75°	24436	4742	3944	4742
80°	17048	3534	2930	3534
85°	15214	0	1168	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.8	5.7
10°-20°	1867.4	16.4
20°-30°	2827.6	24.8
30°-40°	2833.9	24.8
40°-50°	1779.6	15.6
50°-60°	948.3	8.3
60°-70°	390.0	3.4
70°-80°	103.0	0.9
80°-90°	17.4	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°	5339.8	46.8
0°-40°	8173.7	71.6
0°-60°	10901.6	95.5
0°-90°	11412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11412.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6775	6775	6775	6775	6775	
5°	6570	6765	7007	6765	6570	620
15°	6070	6590	7245	6590	6070	1717
25°	5687	6206	6706	6206	5687	2608
35°	4585	4714	4473	4714	4585	2873
45°	3229	1727	1998	1727	3229	2483
55°	1836	638	675	638	1836	1637
65°	731	195	179	195	731	758
75°	205	40	33	40	205	232
85°	43	0	3	0	43	47
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°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6705.5	6698.8	6695.6	6702.2	6705.5	6718.7	6715.4	6722.0	6722.0	6725.4	6731.9
5°	6569.9	6566.5	6569.9	6569.9	6583.1	6596.3	6593.0	6603.0	6609.5	6626.1	6632.7
7.5°	6444.2	6444.2	6440.8	6454.0	6460.7	6480.6	6477.2	6493.8	6503.7	6520.2	6543.3
10°	6315.1	6315.1	6318.4	6328.3	6331.7	6361.4	6361.4	6384.6	6397.8	6414.4	6444.2
12.5°	6189.4	6189.4	6209.3	6202.6	6215.9	6239.0	6248.9	6272.1	6292.0	6325.1	6354.9
15°	6070.3	6070.3	6077.0	6093.4	6103.4	6133.2	6149.7	6176.2	6199.4	6232.5	6275.5
17.5°	5967.8	5964.5	5967.8	5987.6	6007.5	6033.9	6047.1	6080.2	6103.4	6146.4	6186.2
20°	5865.2	5871.9	5871.9	5888.4	5901.6	5934.7	5947.9	5984.4	6010.8	6050.4	6096.8
22.5°	5775.9	5772.6	5772.6	5795.8	5805.7	5835.4	5848.6	5881.7	5911.5	5944.6	5987.6
25°	5686.6	5679.9	5693.3	5696.5	5703.1	5736.2	5746.1	5769.2	5799.1	5828.9	5871.9
27.5°	5554.2	5547.7	5551.0	5564.2	5574.1	5600.5	5607.2	5630.4	5653.5	5679.9	5716.4
30°	5299.5	5292.9	5289.7	5312.8	5322.8	5342.5	5352.4	5392.2	5398.7	5428.6	5455.0
32.5°	4962.1	4958.8	4965.5	4985.2	4995.2	5021.7	5034.9	5058.1	5074.5	5091.1	5117.6
35°	4585.0	4578.4	4585.0	4604.9	4604.9	4628.1	4638.0	4647.8	4644.5	4647.8	4641.3
37.5°	4234.4	4231.0	4234.4	4244.2	4234.4	4244.2	4234.4	4214.5	4178.2	4138.4	4098.7
40°	3936.6	3939.9	3920.1	3933.4	3896.9	3890.3	3854.0	3804.3	3731.6	3652.2	3539.7
42.5°	3619.1	3609.1	3595.9	3602.5	3572.8	3549.5	3490.0	3427.2	3334.5	3202.3	3066.5
45°	3228.7	3225.4	3218.8	3215.5	3195.6	3172.5	3122.8	3050.1	2947.5	2811.9	2649.7
47.5°	2848.3	2838.3	2838.3	2841.6	2818.4	2815.2	2775.4	2712.6	2623.3	2491.0	2322.3
50°	2484.3	2481.0	2487.7	2500.9	2484.3	2477.8	2451.3	2408.3	2328.9	2216.5	2057.6
52.5°	2156.8	2153.6	2160.2	2176.7	2170.0	2176.7	2150.3	2117.2	2064.2	1955.0	1816.1
55°	1836.0	1836.0	1836.0	1855.8	1855.8	1855.8	1842.6	1822.8	1773.1	1693.7	1564.8
57.5°	1501.9	1505.1	1525.0	1528.3	1525.0	1531.7	1528.3	1508.4	1475.5	1419.2	1320.0
60°	1220.7	1220.7	1230.6	1240.6	1237.2	1240.6	1240.6	1230.6	1197.6	1151.3	1071.9
62.5°	965.9	975.9	969.2	975.9	989.1	975.9	969.2	962.7	939.5	909.7	843.5
65°	731.1	737.7	737.7	741.0	734.3	737.7	724.5	714.6	701.4	668.3	625.3
67.5°	555.8	555.8	555.8	555.8	552.4	549.1	545.9	535.9	512.8	499.6	453.2
70°	426.7	406.9	406.9	406.9	406.9	410.3	400.3	387.1	380.4	357.3	324.2
72.5°	284.4	291.1	284.4	284.4	277.9	281.2	268.0	261.3	254.8	241.6	221.7
75°	205.1	188.6	195.1	198.5	188.6	195.1	181.9	168.7	168.7	158.8	148.8
77.5°	132.4	129.1	132.4	135.6	132.4	129.1	122.4	115.7	115.7	112.5	102.5
80°	96.0	92.6	92.6	92.6	89.3	92.6	86.1	86.1	79.4	76.1	69.4
82.5°	62.9	62.9	59.5	62.9	59.5	62.9	53.0	53.0	53.0	49.6	43.0
85°	43.0	36.4	36.4	39.8	33.1	39.8	36.4	33.1	29.8	29.8	26.4
87.5°	19.9	23.1	19.9	23.1	19.9	19.9	23.1	19.9	19.9	13.2	13.2
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°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6741.9	6745.1	6745.1	6758.5	6765.0	6768.3	6768.3	6794.8	6784.9	6791.6	6798.1
5°	6646.0	6665.7	6672.4	6672.4	6708.8	6722.0	6735.2	6765.0	6768.3	6788.2	6811.3
7.5°	6553.3	6576.4	6589.8	6619.4	6642.6	6665.7	6705.5	6725.4	6745.1	6771.7	6801.4
10°	6463.9	6490.5	6516.9	6540.1	6576.4	6606.2	6632.7	6678.9	6702.2	6738.6	6778.2
12.5°	6378.0	6414.4	6437.5	6477.2	6516.9	6543.3	6583.1	6626.1	6662.5	6698.8	6745.1
15°	6301.9	6344.9	6371.4	6414.4	6457.4	6493.8	6536.8	6589.8	6616.2	6659.2	6702.2
17.5°	6219.1	6265.6	6298.6	6338.3	6391.2	6430.9	6467.4	6520.2	6553.3	6599.6	6649.3
20°	6133.2	6179.5	6219.1	6258.9	6311.9	6351.5	6394.5	6447.5	6483.8	6530.1	6569.9
22.5°	6030.7	6073.7	6116.6	6162.9	6215.9	6248.9	6298.6	6344.9	6384.6	6427.6	6467.4
25°	5898.3	5951.3	5984.4	6027.3	6070.3	6106.7	6159.6	6205.9	6239.0	6278.8	6315.1
27.5°	5742.8	5782.6	5809.0	5845.4	5888.4	5921.5	5961.1	6007.5	6040.6	6077.0	6103.4
30°	5478.1	5514.6	5537.8	5564.2	5607.2	5637.0	5670.1	5713.0	5736.2	5762.7	5785.9
32.5°	5130.8	5160.6	5173.8	5193.7	5223.5	5253.2	5279.7	5316.1	5326.0	5342.5	5342.5
35°	4628.1	4634.6	4631.3	4638.0	4651.2	4667.7	4690.8	4714.0	4727.2	4727.2	4717.4
37.5°	4039.1	3999.5	3956.5	3923.4	3913.5	3906.8	3920.1	3929.9	3943.3	3949.8	3933.4
40°	3427.2	3337.9	3241.9	3155.9	3096.4	3069.9	3060.0	3066.5	3066.5	3089.7	3089.7
42.5°	2901.2	2762.2	2620.1	2491.0	2404.9	2338.9	2309.1	2309.1	2312.3	2328.9	2338.9
45°	2464.6	2289.2	2123.7	1981.6	1862.4	1776.4	1736.8	1726.8	1723.6	1730.1	1753.2
47.5°	2130.4	1948.5	1776.4	1601.1	1475.5	1389.4	1353.1	1339.7	1326.5	1339.7	1343.1
50°	1869.1	1680.5	1498.6	1323.2	1190.9	1114.8	1068.5	1048.6	1045.3	1045.3	1052.0
52.5°	1630.8	1455.6	1273.7	1095.0	956.0	883.3	840.3	830.3	817.1	830.3	830.3
55°	1405.9	1230.6	1052.0	883.3	767.4	691.4	651.7	638.5	631.8	641.7	641.7
57.5°	1161.2	1012.2	846.9	694.7	579.0	526.0	496.2	479.7	476.3	483.0	476.3
60°	952.7	827.1	684.8	545.9	456.6	400.3	377.2	370.5	363.8	370.5	370.5
62.5°	754.2	648.4	532.5	426.7	350.6	311.0	284.4	284.4	281.2	281.2	284.4
65°	559.1	476.3	393.6	304.3	244.8	215.0	195.1	195.1	191.9	195.1	191.9
67.5°	406.9	350.6	284.4	221.7	175.4	158.8	145.6	135.6	142.3	135.6	132.4
70°	297.8	251.4	205.1	168.7	135.6	119.1	109.2	105.8	99.3	99.3	99.3
72.5°	198.5	168.7	138.9	109.2	89.3	72.7	69.4	62.9	56.2	59.5	66.2
75°	132.4	112.5	99.3	79.4	59.5	59.5	39.8	39.8	33.1	39.8	29.8
77.5°	92.6	76.1	59.5	49.6	39.8	36.4	26.4	26.4	23.1	23.1	23.1
80°	66.2	56.2	43.0	36.4	26.4	26.4	23.1	19.9	16.5	16.5	19.9
82.5°	39.8	29.8	29.8	26.4	16.5	13.2	9.9	13.2	6.7	6.7	6.7
85°	23.1	19.9	16.5	9.9	6.7	6.7	3.3	0.0	3.3	3.3	0.0
87.5°	13.2	6.7	6.7	3.3	0.0	3.3	3.3	0.0	0.0	0.0	6.7
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°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6814.7	6811.3	6818.0	6818.0	6837.9	6834.4	6844.4	6844.4	6837.9	6841.1	6854.3
5°	6837.9	6847.8	6867.5	6884.1	6913.8	6927.2	6943.6	6960.3	6963.5	6973.5	6983.4
7.5°	6837.9	6870.9	6894.1	6923.8	6963.5	6986.7	7023.0	7052.9	7066.1	7082.5	7102.4
10°	6824.5	6857.6	6900.6	6933.7	6983.4	7019.8	7056.1	7102.4	7122.3	7148.7	7175.3
12.5°	6798.1	6834.4	6880.7	6923.8	6980.0	7013.1	7059.4	7102.4	7132.2	7168.6	7198.4
15°	6758.5	6801.4	6844.4	6887.4	6946.9	6986.7	7029.7	7079.3	7109.1	7148.7	7175.3
17.5°	6695.6	6741.9	6781.6	6821.2	6877.5	6923.8	6963.5	7009.8	7039.6	7072.7	7109.1
20°	6619.4	6662.5	6705.5	6738.6	6794.8	6834.4	6877.5	6920.5	6943.6	6950.3	7006.6
22.5°	6523.6	6553.3	6586.4	6639.3	6672.4	6708.8	6748.5	6788.2	6811.3	6847.8	6867.5
25°	6364.7	6394.5	6430.9	6454.0	6493.8	6523.6	6563.2	6606.2	6619.4	6646.0	6665.7
27.5°	6143.1	6159.6	6176.2	6196.0	6219.1	6235.7	6258.9	6278.8	6292.0	6305.2	6318.4
30°	5792.4	5792.4	5792.4	5779.2	5789.1	5799.1	5802.3	5799.1	5799.1	5795.8	5795.8
32.5°	5329.3	5302.9	5273.1	5246.6	5236.7	5223.5	5216.8	5206.9	5190.4	5180.5	5183.7
35°	4704.0	4644.5	4608.2	4575.1	4548.7	4528.8	4518.9	4508.9	4505.6	4492.4	4479.1
37.5°	3923.4	3880.4	3854.0	3834.1	3810.9	3791.1	3794.3	3797.7	3807.5	3801.0	3804.3
40°	3096.4	3086.4	3096.4	3073.2	3066.5	3073.2	3089.7	3113.0	3126.2	3139.4	3162.5
42.5°	2355.4	2371.8	2395.1	2395.1	2404.9	2418.3	2438.0	2474.5	2494.2	2517.4	2543.9
45°	1773.1	1793.0	1822.8	1832.6	1839.3	1855.8	1879.1	1908.7	1921.9	1941.8	1965.0
47.5°	1366.3	1379.5	1395.9	1412.6	1429.0	1435.7	1458.9	1458.9	1475.5	1488.7	1495.2
50°	1065.2	1078.4	1091.6	1101.6	1108.2	1118.2	1124.7	1134.6	1137.9	1144.6	1147.9
52.5°	833.6	850.2	850.2	856.7	866.7	876.6	873.4	876.6	879.9	879.9	889.8
55°	651.7	651.7	661.6	661.6	668.3	664.9	668.3	668.3	668.3	668.3	671.6
57.5°	486.2	489.6	499.6	492.9	489.6	496.2	489.6	496.2	492.9	499.6	489.6
60°	373.8	373.8	377.2	377.2	380.4	380.4	380.4	377.2	377.2	373.8	373.8
62.5°	281.2	284.4	287.8	284.4	284.4	284.4	281.2	281.2	277.9	274.5	274.5
65°	188.6	185.3	191.9	185.3	188.6	188.6	185.3	188.6	178.6	181.9	178.6
67.5°	135.6	132.4	129.1	132.4	129.1	125.7	125.7	129.1	132.4	122.4	122.4
70°	89.3	92.6	89.3	92.6	96.0	96.0	92.6	89.3	92.6	86.1	89.3
72.5°	56.2	56.2	56.2	56.2	56.2	59.5	59.5	59.5	53.0	53.0	49.6
75°	26.4	36.4	29.8	26.4	36.4	36.4	33.1	33.1	29.8	29.8	29.8
77.5°	26.4	19.9	19.9	19.9	19.9	19.9	19.9	19.9	16.5	19.9	16.5
80°	13.2	13.2	13.2	9.9	13.2	13.2	16.5	13.2	13.2	9.9	16.5
82.5°	6.7	6.7	6.7	0.0	3.3	6.7	6.7	3.3	6.7	6.7	3.3
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: P248781

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6851.1	6847.8	6851.1	6854.3	6851.1	6847.8	6851.1	6854.3	6841.1	6837.9	6844.4
5°	6996.6	6996.6	7003.2	7006.6	7003.2	6996.6	6996.6	6983.4	6973.5	6963.5	6960.3
7.5°	7122.3	7129.0	7135.5	7138.8	7135.5	7129.0	7122.3	7102.4	7082.5	7066.1	7052.9
10°	7198.4	7208.4	7221.6	7228.1	7221.6	7208.4	7198.4	7175.3	7148.7	7122.3	7102.4
12.5°	7231.5	7241.4	7257.9	7254.6	7257.9	7241.4	7231.5	7198.4	7168.6	7132.2	7102.4
15°	7208.4	7221.6	7238.0	7244.7	7238.0	7221.6	7208.4	7175.3	7148.7	7109.1	7079.3
17.5°	7135.5	7155.4	7165.3	7175.3	7165.3	7155.4	7135.5	7109.1	7072.7	7039.6	7009.8
20°	7036.2	7049.6	7062.8	7066.1	7062.8	7049.6	7036.2	7006.6	6950.3	6943.6	6920.5
22.5°	6894.1	6904.0	6933.7	6923.8	6933.7	6904.0	6894.1	6867.5	6847.8	6811.3	6788.2
25°	6688.9	6698.8	6702.2	6705.5	6702.2	6698.8	6688.9	6665.7	6646.0	6619.4	6606.2
27.5°	6335.0	6335.0	6341.5	6344.9	6341.5	6335.0	6335.0	6318.4	6305.2	6292.0	6278.8
30°	5799.1	5799.1	5799.1	5815.7	5799.1	5799.1	5799.1	5795.8	5795.8	5799.1	5799.1
32.5°	5180.5	5173.8	5167.3	5173.8	5167.3	5173.8	5180.5	5183.7	5180.5	5190.4	5206.9
35°	4479.1	4475.8	4485.8	4472.6	4485.8	4475.8	4479.1	4479.1	4492.4	4505.6	4508.9
37.5°	3807.5	3801.0	3814.2	3801.0	3814.2	3801.0	3807.5	3804.3	3801.0	3807.5	3797.7
40°	3169.2	3175.7	3175.7	3202.3	3175.7	3175.7	3169.2	3162.5	3139.4	3126.2	3113.0
42.5°	2557.1	2577.0	2570.4	2590.2	2570.4	2577.0	2557.1	2543.9	2517.4	2494.2	2474.5
45°	1978.2	1991.5	1991.5	1998.1	1991.5	1991.5	1978.2	1965.0	1941.8	1921.9	1908.7
47.5°	1518.4	1518.4	1518.4	1521.8	1518.4	1518.4	1518.4	1495.2	1488.7	1475.5	1458.9
50°	1154.5	1157.8	1161.2	1164.5	1161.2	1157.8	1154.5	1147.9	1144.6	1137.9	1134.6
52.5°	886.6	889.8	883.3	889.8	883.3	889.8	886.6	889.8	879.9	879.9	876.6
55°	671.6	668.3	671.6	674.8	671.6	668.3	671.6	671.6	668.3	668.3	668.3
57.5°	492.9	486.2	486.2	486.2	486.2	486.2	492.9	489.6	499.6	492.9	496.2
60°	367.2	370.5	370.5	373.8	370.5	370.5	367.2	373.8	373.8	377.2	377.2
62.5°	271.2	281.2	274.5	281.2	274.5	281.2	271.2	274.5	274.5	277.9	281.2
65°	175.4	175.4	175.4	178.6	175.4	175.4	175.4	178.6	181.9	178.6	188.6
67.5°	119.1	122.4	129.1	125.7	129.1	122.4	119.1	122.4	122.4	132.4	129.1
70°	96.0	86.1	86.1	96.0	86.1	86.1	96.0	89.3	86.1	92.6	89.3
72.5°	56.2	49.6	56.2	56.2	56.2	49.6	56.2	49.6	53.0	53.0	59.5
75°	29.8	26.4	23.1	33.1	23.1	26.4	29.8	29.8	29.8	29.8	33.1
77.5°	19.9	16.5	23.1	23.1	23.1	16.5	19.9	16.5	19.9	16.5	19.9
80°	9.9	13.2	9.9	16.5	9.9	13.2	9.9	16.5	9.9	13.2	13.2
82.5°	3.3	6.7	6.7	6.7	6.7	6.7	3.3	3.3	6.7	6.7	3.3
85°	0.0	6.7	3.3	3.3	3.3	6.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.0	0.0	3.3	0.0	0.0	3.3	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: P248781

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6844.4	6834.4	6837.9	6818.0	6818.0	6811.3	6814.7	6798.1	6791.6	6784.9	6794.8
5°	6943.6	6927.2	6913.8	6884.1	6867.5	6847.8	6837.9	6811.3	6788.2	6768.3	6765.0
7.5°	7023.0	6986.7	6963.5	6923.8	6894.1	6870.9	6837.9	6801.4	6771.7	6745.1	6725.4
10°	7056.1	7019.8	6983.4	6933.7	6900.6	6857.6	6824.5	6778.2	6738.6	6702.2	6678.9
12.5°	7059.4	7013.1	6980.0	6923.8	6880.7	6834.4	6798.1	6745.1	6698.8	6662.5	6626.1
15°	7029.7	6986.7	6946.9	6887.4	6844.4	6801.4	6758.5	6702.2	6659.2	6616.2	6589.8
17.5°	6963.5	6923.8	6877.5	6821.2	6781.6	6741.9	6695.6	6649.3	6599.6	6553.3	6520.2
20°	6877.5	6834.4	6794.8	6738.6	6705.5	6662.5	6619.4	6569.9	6530.1	6483.8	6447.5
22.5°	6748.5	6708.8	6672.4	6639.3	6586.4	6553.3	6523.6	6467.4	6427.6	6384.6	6344.9
25°	6563.2	6523.6	6493.8	6454.0	6430.9	6394.5	6364.7	6315.1	6278.8	6239.0	6205.9
27.5°	6258.9	6235.7	6219.1	6196.0	6176.2	6159.6	6143.1	6103.4	6077.0	6040.6	6007.5
30°	5802.3	5799.1	5789.1	5779.2	5792.4	5792.4	5792.4	5785.9	5762.7	5736.2	5713.0
32.5°	5216.8	5223.5	5236.7	5246.6	5273.1	5302.9	5329.3	5342.5	5342.5	5326.0	5316.1
35°	4518.9	4528.8	4548.7	4575.1	4608.2	4644.5	4704.0	4717.4	4727.2	4727.2	4714.0
37.5°	3794.3	3791.1	3810.9	3834.1	3854.0	3880.4	3923.4	3933.4	3949.8	3943.3	3929.9
40°	3089.7	3073.2	3066.5	3073.2	3096.4	3086.4	3096.4	3089.7	3089.7	3066.5	3066.5
42.5°	2438.0	2418.3	2404.9	2395.1	2395.1	2371.8	2355.4	2338.9	2328.9	2312.3	2309.1
45°	1879.1	1855.8	1839.3	1832.6	1822.8	1793.0	1773.1	1753.2	1730.1	1723.6	1726.8
47.5°	1458.9	1435.7	1429.0	1412.6	1395.9	1379.5	1366.3	1343.1	1339.7	1326.5	1339.7
50°	1124.7	1118.2	1108.2	1101.6	1091.6	1078.4	1065.2	1052.0	1045.3	1045.3	1048.6
52.5°	873.4	876.6	866.7	856.7	850.2	850.2	833.6	830.3	830.3	817.1	830.3
55°	668.3	664.9	668.3	661.6	661.6	651.7	651.7	641.7	641.7	631.8	638.5
57.5°	489.6	496.2	489.6	492.9	499.6	489.6	486.2	476.3	483.0	476.3	479.7
60°	380.4	380.4	380.4	377.2	377.2	373.8	373.8	370.5	370.5	363.8	370.5
62.5°	281.2	284.4	284.4	284.4	287.8	284.4	281.2	284.4	281.2	281.2	284.4
65°	185.3	188.6	188.6	185.3	191.9	185.3	188.6	191.9	195.1	191.9	195.1
67.5°	125.7	125.7	129.1	132.4	129.1	132.4	135.6	132.4	135.6	142.3	135.6
70°	92.6	96.0	96.0	92.6	89.3	92.6	89.3	99.3	99.3	99.3	105.8
72.5°	59.5	59.5	56.2	56.2	56.2	56.2	56.2	66.2	59.5	56.2	62.9
75°	33.1	36.4	36.4	26.4	29.8	36.4	26.4	29.8	39.8	33.1	39.8
77.5°	19.9	19.9	19.9	19.9	19.9	19.9	26.4	23.1	23.1	23.1	26.4
80°	16.5	13.2	13.2	9.9	13.2	13.2	13.2	19.9	16.5	16.5	19.9
82.5°	6.7	6.7	3.3	0.0	6.7	6.7	6.7	6.7	6.7	6.7	13.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	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: P248781

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6768.3	6768.3	6765.0	6758.5	6745.1	6745.1	6741.9	6731.9	6725.4	6722.0	6722.0
5°	6735.2	6722.0	6708.8	6672.4	6672.4	6665.7	6646.0	6632.7	6626.1	6609.5	6603.0
7.5°	6705.5	6665.7	6642.6	6619.4	6589.8	6576.4	6553.3	6543.3	6520.2	6503.7	6493.8
10°	6632.7	6606.2	6576.4	6540.1	6516.9	6490.5	6463.9	6444.2	6414.4	6397.8	6384.6
12.5°	6583.1	6543.3	6516.9	6477.2	6437.5	6414.4	6378.0	6354.9	6325.1	6292.0	6272.1
15°	6536.8	6493.8	6457.4	6414.4	6371.4	6344.9	6301.9	6275.5	6232.5	6199.4	6176.2
17.5°	6467.4	6430.9	6391.2	6338.3	6298.6	6265.6	6219.1	6186.2	6146.4	6103.4	6080.2
20°	6394.5	6351.5	6311.9	6258.9	6219.1	6179.5	6133.2	6096.8	6050.4	6010.8	5984.4
22.5°	6298.6	6248.9	6215.9	6162.9	6116.6	6073.7	6030.7	5987.6	5944.6	5911.5	5881.7
25°	6159.6	6106.7	6070.3	6027.3	5984.4	5951.3	5898.3	5871.9	5828.9	5799.1	5769.2
27.5°	5961.1	5921.5	5888.4	5845.4	5809.0	5782.6	5742.8	5716.4	5679.9	5653.5	5630.4
30°	5670.1	5637.0	5607.2	5564.2	5537.8	5514.6	5478.1	5455.0	5428.6	5398.7	5392.2
32.5°	5279.7	5253.2	5223.5	5193.7	5173.8	5160.6	5130.8	5117.6	5091.1	5074.5	5058.1
35°	4690.8	4667.7	4651.2	4638.0	4631.3	4634.6	4628.1	4641.3	4647.8	4644.5	4647.8
37.5°	3920.1	3906.8	3913.5	3923.4	3956.5	3999.5	4039.1	4098.7	4138.4	4178.2	4214.5
40°	3060.0	3069.9	3096.4	3155.9	3241.9	3337.9	3427.2	3539.7	3652.2	3731.6	3804.3
42.5°	2309.1	2338.9	2404.9	2491.0	2620.1	2762.2	2901.2	3066.5	3202.3	3334.5	3427.2
45°	1736.8	1776.4	1862.4	1981.6	2123.7	2289.2	2464.6	2649.7	2811.9	2947.5	3050.1
47.5°	1353.1	1389.4	1475.5	1601.1	1776.4	1948.5	2130.4	2322.3	2491.0	2623.3	2712.6
50°	1068.5	1114.8	1190.9	1323.2	1498.6	1680.5	1869.1	2057.6	2216.5	2328.9	2408.3
52.5°	840.3	883.3	956.0	1095.0	1273.7	1455.6	1630.8	1816.1	1955.0	2064.2	2117.2
55°	651.7	691.4	767.4	883.3	1052.0	1230.6	1405.9	1564.8	1693.7	1773.1	1822.8
57.5°	496.2	526.0	579.0	694.7	846.9	1012.2	1161.2	1320.0	1419.2	1475.5	1508.4
60°	377.2	400.3	456.6	545.9	684.8	827.1	952.7	1071.9	1151.3	1197.6	1230.6
62.5°	284.4	311.0	350.6	426.7	532.5	648.4	754.2	843.5	909.7	939.5	962.7
65°	195.1	215.0	244.8	304.3	393.6	476.3	559.1	625.3	668.3	701.4	714.6
67.5°	145.6	158.8	175.4	221.7	284.4	350.6	406.9	453.2	499.6	512.8	535.9
70°	109.2	119.1	135.6	168.7	205.1	251.4	297.8	324.2	357.3	380.4	387.1
72.5°	69.4	72.7	89.3	109.2	138.9	168.7	198.5	221.7	241.6	254.8	261.3
75°	39.8	59.5	59.5	79.4	99.3	112.5	132.4	148.8	158.8	168.7	168.7
77.5°	26.4	36.4	39.8	49.6	59.5	76.1	92.6	102.5	112.5	115.7	115.7
80°	23.1	26.4	26.4	36.4	43.0	56.2	66.2	69.4	76.1	79.4	86.1
82.5°	9.9	13.2	16.5	26.4	29.8	29.8	39.8	43.0	49.6	53.0	53.0
85°	3.3	6.7	6.7	9.9	16.5	19.9	23.1	26.4	29.8	29.8	33.1
87.5°	3.3	3.3	0.0	3.3	6.7	6.7	13.2	13.2	13.2	19.9	19.9
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: P248781

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9	6774.9
2.5°	6715.4	6718.7	6705.5	6702.2	6695.6	6698.8	6705.5
5°	6593.0	6596.3	6583.1	6569.9	6569.9	6566.5	6569.9
7.5°	6477.2	6480.6	6460.7	6454.0	6440.8	6444.2	6444.2
10°	6361.4	6361.4	6331.7	6328.3	6318.4	6315.1	6315.1
12.5°	6248.9	6239.0	6215.9	6202.6	6209.3	6189.4	6189.4
15°	6149.7	6133.2	6103.4	6093.4	6077.0	6070.3	6070.3
17.5°	6047.1	6033.9	6007.5	5987.6	5967.8	5964.5	5967.8
20°	5947.9	5934.7	5901.6	5888.4	5871.9	5871.9	5865.2
22.5°	5848.6	5835.4	5805.7	5795.8	5772.6	5772.6	5775.9
25°	5746.1	5736.2	5703.1	5696.5	5693.3	5679.9	5686.6
27.5°	5607.2	5600.5	5574.1	5564.2	5551.0	5547.7	5554.2
30°	5352.4	5342.5	5322.8	5312.8	5289.7	5292.9	5299.5
32.5°	5034.9	5021.7	4995.2	4985.2	4965.5	4958.8	4962.1
35°	4638.0	4628.1	4604.9	4604.9	4585.0	4578.4	4585.0
37.5°	4234.4	4244.2	4234.4	4244.2	4234.4	4231.0	4234.4
40°	3854.0	3890.3	3896.9	3933.4	3920.1	3939.9	3936.6
42.5°	3490.0	3549.5	3572.8	3602.5	3595.9	3609.1	3619.1
45°	3122.8	3172.5	3195.6	3215.5	3218.8	3225.4	3228.7
47.5°	2775.4	2815.2	2818.4	2841.6	2838.3	2838.3	2848.3
50°	2451.3	2477.8	2484.3	2500.9	2487.7	2481.0	2484.3
52.5°	2150.3	2176.7	2170.0	2176.7	2160.2	2153.6	2156.8
55°	1842.6	1855.8	1855.8	1855.8	1836.0	1836.0	1836.0
57.5°	1528.3	1531.7	1525.0	1528.3	1525.0	1505.1	1501.9
60°	1240.6	1240.6	1237.2	1240.6	1230.6	1220.7	1220.7
62.5°	969.2	975.9	989.1	975.9	969.2	975.9	965.9
65°	724.5	737.7	734.3	741.0	737.7	737.7	731.1
67.5°	545.9	549.1	552.4	555.8	555.8	555.8	555.8
70°	400.3	410.3	406.9	406.9	406.9	406.9	426.7
72.5°	268.0	281.2	277.9	284.4	284.4	291.1	284.4
75°	181.9	195.1	188.6	198.5	195.1	188.6	205.1
77.5°	122.4	129.1	132.4	135.6	132.4	129.1	132.4
80°	86.1	92.6	89.3	92.6	92.6	92.6	96.0
82.5°	53.0	62.9	59.5	62.9	59.5	62.9	62.9
85°	36.4	39.8	33.1	39.8	36.4	36.4	43.0
87.5°	23.1	19.9	19.9	23.1	19.9	23.1	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)