

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: P249006

Luminaire Tested: **LD8B120D010 ER8B120840 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249006
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 ER8B120840 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12122.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

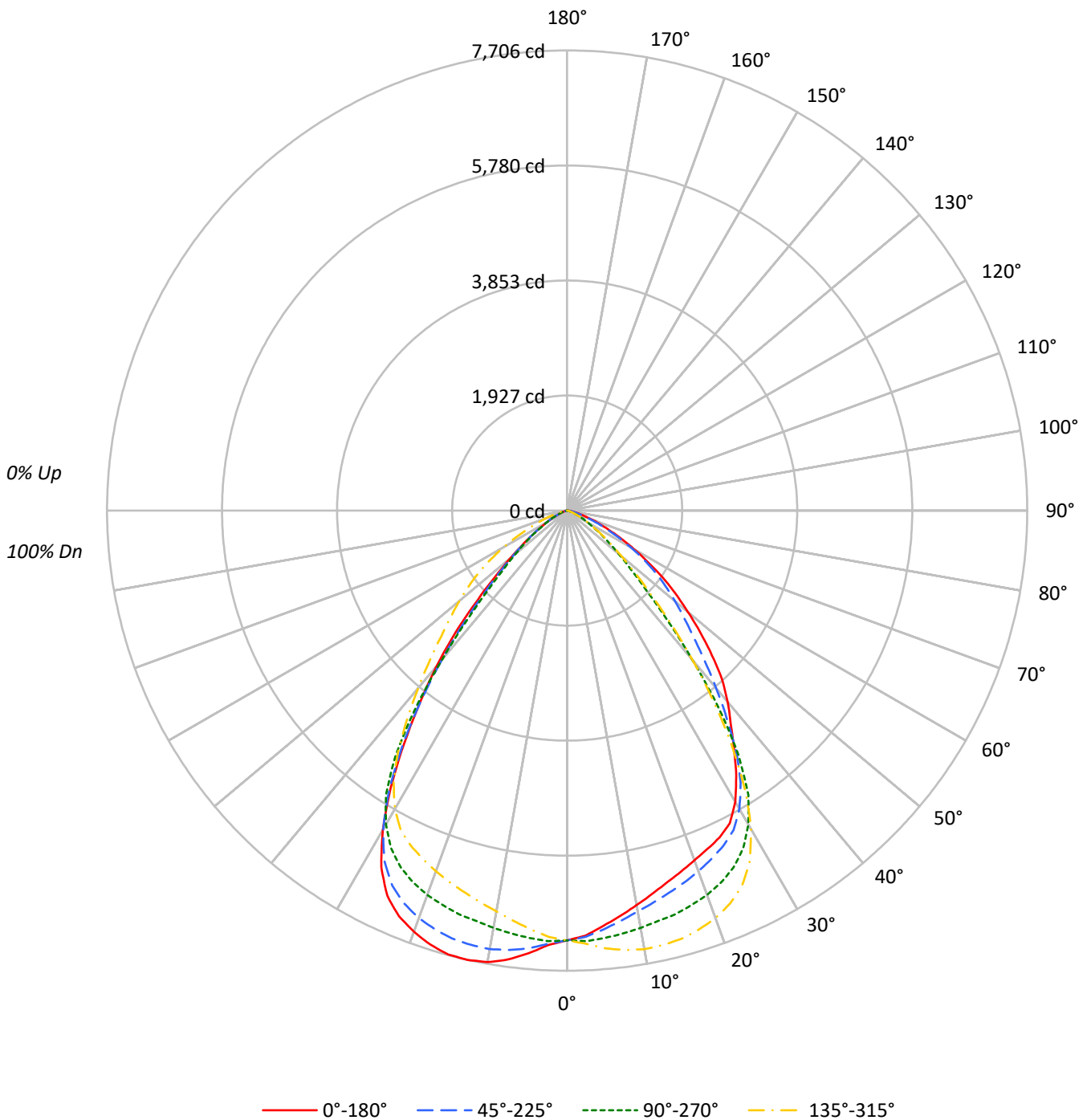
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	221910	221910	221910	221910
5°	216016	222433	230376	222433
10°	210041	222143	240407	222143
15°	205847	223459	245669	223459
20°	204443	224739	246302	224739
25°	205519	224287	242344	224287
30°	200437	216076	219960	216076
35°	183338	188496	178840	188496
40°	168322	131119	136924	131119
45°	149562	79992	92556	79992
50°	126595	53432	59338	53432
55°	104851	36461	38536	36461
60°	79971	24274	24484	24274
65°	56657	15126	13849	15126
70°	40869	10134	9196	10134
75°	25949	5028	4182	5028
80°	18113	3747	3108	3747
85°	16169	0	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.0	5.7
10°-20°	1983.5	16.4
20°-30°	3003.5	24.8
30°-40°	3010.2	24.8
40°-50°	1890.3	15.6
50°-60°	1007.3	8.3
60°-70°	414.2	3.4
70°-80°	109.4	0.9
80°-90°	18.5	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°	5672.0	46.8
0°-40°	8682.2	71.6
0°-60°	11579.8	95.5
0°-90°	12122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12122.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7196	7196	7196	7196	7196	
5°	6979	7186	7442	7186	6979	658
15°	6448	7000	7695	7000	6448	1824
25°	6040	6592	7123	6592	6040	2770
35°	4870	5007	4751	5007	4870	3051
45°	3430	1834	2122	1834	3430	2638
55°	1950	678	717	678	1950	1739
65°	776	207	190	207	776	806
75°	218	42	35	42	218	247
85°	46	0	4	0	46	50
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°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7122.7	7115.6	7112.1	7119.2	7122.7	7136.7	7133.2	7140.2	7140.2	7143.8	7150.7
5°	6978.6	6975.0	6978.6	6978.6	6992.7	7006.7	7003.2	7013.8	7020.7	7038.4	7045.3
7.5°	6845.1	6845.1	6841.5	6855.5	6862.6	6883.7	6880.1	6897.8	6908.3	6925.8	6950.4
10°	6708.0	6708.0	6711.5	6722.0	6725.7	6757.2	6757.2	6781.8	6795.8	6813.5	6845.1
12.5°	6574.5	6574.5	6595.6	6588.5	6602.6	6627.2	6637.7	6662.3	6683.4	6718.6	6750.2
15°	6448.0	6448.0	6455.0	6472.6	6483.1	6514.8	6532.3	6560.5	6585.1	6620.2	6665.9
17.5°	6339.1	6335.6	6339.1	6360.2	6381.3	6409.3	6423.4	6458.5	6483.1	6528.8	6571.0
20°	6230.1	6237.2	6237.2	6254.7	6268.8	6303.9	6317.9	6356.7	6384.8	6426.8	6476.2
22.5°	6135.3	6131.8	6131.8	6156.4	6166.9	6198.5	6212.5	6247.6	6279.3	6314.5	6360.2
25°	6040.4	6033.3	6047.5	6050.9	6057.9	6093.0	6103.6	6128.2	6159.9	6191.5	6237.2
27.5°	5899.8	5892.9	5896.3	5910.4	5920.9	5949.0	5956.1	5980.6	6005.2	6033.3	6072.1
30°	5629.2	5622.2	5618.8	5643.4	5653.9	5674.9	5685.4	5727.7	5734.6	5766.3	5794.4
32.5°	5270.8	5267.3	5274.4	5295.4	5305.9	5334.1	5348.2	5372.7	5390.2	5407.9	5436.0
35°	4870.3	4863.2	4870.3	4891.4	4891.4	4916.0	4926.5	4937.0	4933.5	4937.0	4930.0
37.5°	4497.9	4494.2	4497.9	4508.3	4497.9	4508.3	4497.9	4476.7	4438.1	4395.9	4353.7
40°	4181.5	4185.0	4164.0	4178.1	4139.3	4132.4	4093.7	4041.0	3963.7	3879.4	3759.9
42.5°	3844.2	3833.7	3819.7	3826.6	3795.1	3770.3	3707.1	3640.5	3542.0	3401.5	3257.3
45°	3429.6	3426.1	3419.0	3415.6	3394.4	3369.8	3317.1	3239.8	3130.9	2986.9	2814.6
47.5°	3025.5	3014.9	3014.9	3018.4	2993.8	2990.3	2948.1	2881.4	2786.5	2645.9	2466.7
50°	2638.9	2635.4	2642.5	2656.5	2638.9	2631.9	2603.9	2558.2	2473.8	2354.4	2185.6
52.5°	2291.0	2287.5	2294.6	2312.1	2305.0	2312.1	2284.1	2248.9	2192.7	2076.7	1929.1
55°	1950.3	1950.3	1950.3	1971.2	1971.2	1971.2	1957.2	1936.2	1883.4	1799.1	1662.1
57.5°	1595.3	1598.8	1619.9	1623.4	1619.9	1627.0	1623.4	1602.3	1567.3	1507.5	1402.1
60°	1296.7	1296.7	1307.2	1317.8	1314.2	1317.8	1317.8	1307.2	1272.1	1222.9	1138.6
62.5°	1026.0	1036.6	1029.5	1036.6	1050.6	1036.6	1029.5	1022.6	998.0	966.3	896.0
65°	776.5	783.6	783.6	787.1	780.0	783.6	769.6	759.0	745.0	709.9	664.2
67.5°	590.4	590.4	590.4	590.4	586.8	583.3	579.8	569.3	544.7	530.7	481.3
70°	453.3	432.2	432.2	432.2	432.2	435.8	425.2	411.2	404.1	379.5	344.4
72.5°	302.1	309.2	302.1	302.1	295.2	298.7	284.6	277.6	270.6	256.6	235.5
75°	217.8	200.3	207.3	210.9	200.3	207.3	193.2	179.2	179.2	168.6	158.1
77.5°	140.6	137.1	140.6	144.1	140.6	137.1	130.0	122.9	122.9	119.5	108.9
80°	102.0	98.4	98.4	98.4	94.9	98.4	91.4	91.4	84.3	80.9	73.8
82.5°	66.8	66.8	63.2	66.8	63.2	66.8	56.3	56.3	56.3	52.6	45.7
85°	45.7	38.6	38.6	42.2	35.1	42.2	38.6	35.1	31.7	31.7	28.1
87.5°	21.1	24.6	21.1	24.6	21.1	21.1	24.6	21.1	21.1	14.0	14.0
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°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7161.3	7164.8	7164.8	7178.9	7185.9	7189.4	7189.4	7217.6	7207.0	7214.1	7221.0
5°	7059.5	7080.5	7087.5	7087.5	7126.2	7140.2	7154.2	7185.9	7189.4	7210.5	7235.1
7.5°	6961.0	6985.6	6999.7	7031.3	7055.9	7080.5	7122.7	7143.8	7164.8	7193.0	7224.5
10°	6866.1	6894.3	6922.4	6947.0	6985.6	7017.2	7045.3	7094.5	7119.2	7157.8	7199.9
12.5°	6774.8	6813.5	6838.0	6880.1	6922.4	6950.4	6992.7	7038.4	7077.0	7115.6	7164.8
15°	6694.0	6739.7	6767.8	6813.5	6859.2	6897.8	6943.5	6999.7	7027.8	7073.5	7119.2
17.5°	6606.0	6655.4	6690.5	6732.6	6788.9	6831.0	6869.7	6925.8	6961.0	7010.2	7062.9
20°	6514.8	6564.0	6606.0	6648.3	6704.5	6746.6	6792.3	6848.6	6887.2	6936.4	6978.6
22.5°	6405.9	6451.6	6497.1	6546.3	6602.6	6637.7	6690.5	6739.7	6781.8	6827.5	6869.7
25°	6265.3	6321.6	6356.7	6402.3	6448.0	6486.6	6542.8	6592.0	6627.2	6669.4	6708.0
27.5°	6100.1	6142.3	6170.4	6209.0	6254.7	6289.9	6332.0	6381.3	6416.4	6455.0	6483.1
30°	5818.9	5857.7	5882.3	5910.4	5956.1	5987.7	6022.9	6068.4	6093.0	6121.2	6145.8
32.5°	5450.0	5481.7	5495.7	5516.8	5548.5	5580.0	5608.2	5646.8	5657.4	5674.9	5674.9
35°	4916.0	4922.9	4919.5	4926.5	4940.6	4958.1	4982.7	5007.3	5021.3	5021.3	5010.9
37.5°	4290.4	4248.4	4202.7	4167.5	4156.9	4149.9	4164.0	4174.4	4188.6	4195.6	4178.1
40°	3640.5	3545.6	3443.6	3352.2	3289.0	3260.9	3250.4	3257.3	3257.3	3281.9	3281.9
42.5°	3081.7	2934.1	2783.1	2645.9	2554.5	2484.4	2452.7	2452.7	2456.2	2473.8	2484.4
45°	2617.9	2431.6	2255.9	2104.9	1978.3	1886.9	1844.8	1834.3	1830.8	1837.7	1862.3
47.5°	2263.0	2069.7	1886.9	1700.8	1567.3	1475.9	1437.2	1423.1	1409.0	1423.1	1426.7
50°	1985.4	1785.1	1591.9	1405.6	1265.0	1184.1	1134.9	1113.8	1110.4	1110.4	1117.4
52.5°	1732.3	1546.1	1352.9	1163.2	1015.5	938.2	892.5	882.0	868.0	882.0	882.0
55°	1493.4	1307.2	1117.4	938.2	815.2	734.5	692.2	678.2	671.1	681.7	681.7
57.5°	1233.4	1075.2	899.6	737.9	615.0	558.7	527.0	509.5	505.9	513.0	505.9
60°	1012.0	878.5	727.4	579.8	485.0	425.2	400.6	393.6	386.5	393.6	393.6
62.5°	801.1	688.8	565.7	453.3	372.4	330.3	302.1	302.1	298.7	298.7	302.1
65°	593.9	505.9	418.1	323.3	260.1	228.4	207.3	207.3	203.8	207.3	203.8
67.5°	432.2	372.4	302.1	235.5	186.3	168.6	154.6	144.1	151.1	144.1	140.6
70°	316.3	267.0	217.8	179.2	144.1	126.6	116.0	112.4	105.4	105.4	105.4
72.5°	210.9	179.2	147.5	116.0	94.9	77.2	73.8	66.8	59.7	63.2	70.3
75°	140.6	119.5	105.4	84.3	63.2	63.2	42.2	42.2	35.1	42.2	31.7
77.5°	98.4	80.9	63.2	52.6	42.2	38.6	28.1	28.1	24.6	24.6	24.6
80°	70.3	59.7	45.7	38.6	28.1	28.1	24.6	21.1	17.5	17.5	21.1
82.5°	42.2	31.7	31.7	28.1	17.5	14.0	10.6	14.0	7.1	7.1	7.1
85°	24.6	21.1	17.5	10.6	7.1	7.1	3.5	0.0	3.5	3.5	0.0
87.5°	14.0	7.1	7.1	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.1
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°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7238.7	7235.1	7242.2	7242.2	7263.3	7259.7	7270.2	7270.2	7263.3	7266.7	7280.8
5°	7263.3	7273.8	7294.8	7312.4	7344.0	7358.1	7375.7	7393.3	7396.8	7407.3	7417.9
7.5°	7263.3	7298.4	7323.0	7354.5	7396.8	7421.4	7460.0	7491.6	7505.7	7523.2	7544.3
10°	7249.1	7284.2	7329.9	7365.1	7417.9	7456.5	7495.1	7544.3	7565.4	7593.5	7621.7
12.5°	7221.0	7259.7	7308.8	7354.5	7414.3	7449.4	7498.6	7544.3	7576.0	7614.6	7646.3
15°	7178.9	7224.5	7270.2	7315.9	7379.1	7421.4	7467.1	7519.7	7551.4	7593.5	7621.7
17.5°	7112.1	7161.3	7203.5	7245.6	7305.4	7354.5	7396.8	7445.9	7477.6	7512.8	7551.4
20°	7031.3	7077.0	7122.7	7157.8	7217.6	7259.7	7305.4	7351.1	7375.7	7382.7	7442.5
22.5°	6929.5	6961.0	6996.1	7052.4	7087.5	7126.2	7168.4	7210.5	7235.1	7273.8	7294.8
25°	6760.7	6792.3	6831.0	6855.5	6897.8	6929.5	6971.5	7017.2	7031.3	7059.5	7080.5
27.5°	6525.3	6542.8	6560.5	6581.5	6606.0	6623.7	6648.3	6669.4	6683.4	6697.5	6711.5
30°	6152.8	6152.8	6152.8	6138.7	6149.3	6159.9	6163.3	6159.9	6159.9	6156.4	6156.4
32.5°	5660.9	5632.8	5601.1	5573.1	5562.5	5548.5	5541.4	5530.8	5513.3	5502.8	5506.2
35°	4996.7	4933.5	4894.9	4859.7	4831.7	4810.6	4800.0	4789.4	4786.0	4771.9	4757.8
37.5°	4167.5	4121.8	4093.7	4072.6	4048.0	4026.9	4030.4	4034.0	4044.4	4037.5	4041.0
40°	3289.0	3278.4	3289.0	3264.4	3257.3	3264.4	3281.9	3306.6	3320.7	3334.7	3359.3
42.5°	2501.9	2519.4	2544.1	2544.1	2554.5	2568.7	2589.7	2628.4	2649.4	2674.0	2702.2
45°	1883.4	1904.6	1936.2	1946.6	1953.7	1971.2	1996.0	2027.5	2041.5	2062.6	2087.2
47.5°	1451.3	1465.3	1482.8	1500.4	1517.9	1525.0	1549.6	1549.6	1567.3	1581.3	1588.2
50°	1131.5	1145.5	1159.5	1170.1	1177.2	1187.7	1194.7	1205.2	1208.7	1215.8	1219.3
52.5°	885.5	903.1	903.1	910.0	920.6	931.2	927.7	931.2	934.6	934.6	945.2
55°	692.2	692.2	702.8	702.8	709.9	706.3	709.9	709.9	709.9	709.9	713.3
57.5°	516.5	520.1	530.7	523.6	520.1	527.0	520.1	527.0	523.6	530.7	520.1
60°	397.0	397.0	400.6	400.6	404.1	404.1	404.1	400.6	400.6	397.0	397.0
62.5°	298.7	302.1	305.8	302.1	302.1	302.1	298.7	298.7	295.2	291.6	291.6
65°	200.3	196.8	203.8	196.8	200.3	200.3	196.8	200.3	189.8	193.2	189.8
67.5°	144.1	140.6	137.1	140.6	137.1	133.5	133.5	137.1	140.6	130.0	130.0
70°	94.9	98.4	94.9	98.4	102.0	102.0	98.4	94.9	98.4	91.4	94.9
72.5°	59.7	59.7	59.7	59.7	59.7	63.2	63.2	63.2	56.3	56.3	52.6
75°	28.1	38.6	31.7	28.1	38.6	38.6	35.1	35.1	31.7	31.7	31.7
77.5°	28.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	17.5	21.1	17.5
80°	14.0	14.0	14.0	10.6	14.0	14.0	17.5	14.0	14.0	10.6	17.5
82.5°	7.1	7.1	7.1	0.0	3.5	7.1	7.1	3.5	7.1	7.1	3.5
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: P249006

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7277.3	7273.8	7277.3	7280.8	7277.3	7273.8	7277.3	7280.8	7266.7	7263.3	7270.2
5°	7431.9	7431.9	7438.9	7442.5	7438.9	7431.9	7431.9	7417.9	7407.3	7396.8	7393.3
7.5°	7565.4	7572.5	7579.4	7582.9	7579.4	7572.5	7565.4	7544.3	7523.2	7505.7	7491.6
10°	7646.3	7656.8	7670.8	7677.8	7670.8	7656.8	7646.3	7621.7	7593.5	7565.4	7544.3
12.5°	7681.4	7692.0	7709.5	7706.0	7709.5	7692.0	7681.4	7646.3	7614.6	7576.0	7544.3
15°	7656.8	7670.8	7688.4	7695.4	7688.4	7670.8	7656.8	7621.7	7593.5	7551.4	7519.7
17.5°	7579.4	7600.6	7611.1	7621.7	7611.1	7600.6	7579.4	7551.4	7512.8	7477.6	7445.9
20°	7474.0	7488.2	7502.2	7505.7	7502.2	7488.2	7474.0	7442.5	7382.7	7375.7	7351.1
22.5°	7323.0	7333.6	7365.1	7354.5	7365.1	7333.6	7323.0	7294.8	7273.8	7235.1	7210.5
25°	7105.0	7115.6	7119.2	7122.7	7119.2	7115.6	7105.0	7080.5	7059.5	7031.3	7017.2
27.5°	6729.1	6729.1	6736.1	6739.7	6736.1	6729.1	6729.1	6711.5	6697.5	6683.4	6669.4
30°	6159.9	6159.9	6159.9	6177.5	6159.9	6159.9	6159.9	6156.4	6156.4	6159.9	6159.9
32.5°	5502.8	5495.7	5488.7	5495.7	5488.7	5495.7	5502.8	5506.2	5502.8	5513.3	5530.8
35°	4757.8	4754.3	4764.8	4750.8	4764.8	4754.3	4757.8	4757.8	4771.9	4786.0	4789.4
37.5°	4044.4	4037.5	4051.5	4037.5	4051.5	4037.5	4044.4	4041.0	4037.5	4044.4	4034.0
40°	3366.4	3373.3	3373.3	3401.5	3373.3	3373.3	3366.4	3359.3	3334.7	3320.7	3306.6
42.5°	2716.2	2737.4	2730.3	2751.4	2730.3	2737.4	2716.2	2702.2	2674.0	2649.4	2628.4
45°	2101.3	2115.4	2115.4	2122.4	2115.4	2115.4	2101.3	2087.2	2062.6	2041.5	2027.5
47.5°	1612.8	1612.8	1612.8	1616.4	1612.8	1612.8	1612.8	1588.2	1581.3	1567.3	1549.6
50°	1226.4	1229.8	1233.4	1236.9	1233.4	1229.8	1226.4	1219.3	1215.8	1208.7	1205.2
52.5°	941.7	945.2	938.2	945.2	938.2	945.2	941.7	945.2	934.6	934.6	931.2
55°	713.3	709.9	713.3	716.8	713.3	709.9	713.3	713.3	709.9	709.9	709.9
57.5°	523.6	516.5	516.5	516.5	516.5	516.5	523.6	520.1	530.7	523.6	527.0
60°	390.1	393.6	393.6	397.0	393.6	393.6	390.1	397.0	397.0	400.6	400.6
62.5°	288.1	298.7	291.6	298.7	291.6	298.7	288.1	291.6	291.6	295.2	298.7
65°	186.3	186.3	186.3	189.8	186.3	186.3	186.3	189.8	193.2	189.8	200.3
67.5°	126.6	130.0	137.1	133.5	137.1	130.0	126.6	130.0	130.0	140.6	137.1
70°	102.0	91.4	91.4	102.0	91.4	91.4	102.0	94.9	91.4	98.4	94.9
72.5°	59.7	52.6	59.7	59.7	59.7	52.6	59.7	52.6	56.3	56.3	63.2
75°	31.7	28.1	24.6	35.1	24.6	28.1	31.7	31.7	31.7	31.7	35.1
77.5°	21.1	17.5	24.6	24.6	24.6	17.5	21.1	17.5	21.1	17.5	21.1
80°	10.6	14.0	10.6	17.5	10.6	14.0	10.6	17.5	10.6	14.0	14.0
82.5°	3.5	7.1	7.1	7.1	7.1	7.1	3.5	3.5	7.1	7.1	3.5
85°	0.0	7.1	3.5	3.5	3.5	7.1	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	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: P249006

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7270.2	7259.7	7263.3	7242.2	7242.2	7235.1	7238.7	7221.0	7214.1	7207.0	7217.6
5°	7375.7	7358.1	7344.0	7312.4	7294.8	7273.8	7263.3	7235.1	7210.5	7189.4	7185.9
7.5°	7460.0	7421.4	7396.8	7354.5	7323.0	7298.4	7263.3	7224.5	7193.0	7164.8	7143.8
10°	7495.1	7456.5	7417.9	7365.1	7329.9	7284.2	7249.1	7199.9	7157.8	7119.2	7094.5
12.5°	7498.6	7449.4	7414.3	7354.5	7308.8	7259.7	7221.0	7164.8	7115.6	7077.0	7038.4
15°	7467.1	7421.4	7379.1	7315.9	7270.2	7224.5	7178.9	7119.2	7073.5	7027.8	6999.7
17.5°	7396.8	7354.5	7305.4	7245.6	7203.5	7161.3	7112.1	7062.9	7010.2	6961.0	6925.8
20°	7305.4	7259.7	7217.6	7157.8	7122.7	7077.0	7031.3	6978.6	6936.4	6887.2	6848.6
22.5°	7168.4	7126.2	7087.5	7052.4	6996.1	6961.0	6929.5	6869.7	6827.5	6781.8	6739.7
25°	6971.5	6929.5	6897.8	6855.5	6831.0	6792.3	6760.7	6708.0	6669.4	6627.2	6592.0
27.5°	6648.3	6623.7	6606.0	6581.5	6560.5	6542.8	6525.3	6483.1	6455.0	6416.4	6381.3
30°	6163.3	6159.9	6149.3	6138.7	6152.8	6152.8	6152.8	6145.8	6121.2	6093.0	6068.4
32.5°	5541.4	5548.5	5562.5	5573.1	5601.1	5632.8	5660.9	5674.9	5674.9	5657.4	5646.8
35°	4800.0	4810.6	4831.7	4859.7	4894.9	4933.5	4996.7	5010.9	5021.3	5021.3	5007.3
37.5°	4030.4	4026.9	4048.0	4072.6	4093.7	4121.8	4167.5	4178.1	4195.6	4188.6	4174.4
40°	3281.9	3264.4	3257.3	3264.4	3289.0	3278.4	3289.0	3281.9	3281.9	3257.3	3257.3
42.5°	2589.7	2568.7	2554.5	2544.1	2544.1	2519.4	2501.9	2484.4	2473.8	2456.2	2452.7
45°	1996.0	1971.2	1953.7	1946.6	1936.2	1904.6	1883.4	1862.3	1837.7	1830.8	1834.3
47.5°	1549.6	1525.0	1517.9	1500.4	1482.8	1465.3	1451.3	1426.7	1423.1	1409.0	1423.1
50°	1194.7	1187.7	1177.2	1170.1	1159.5	1145.5	1131.5	1117.4	1110.4	1110.4	1113.8
52.5°	927.7	931.2	920.6	910.0	903.1	903.1	885.5	882.0	882.0	868.0	882.0
55°	709.9	706.3	709.9	702.8	702.8	692.2	692.2	681.7	681.7	671.1	678.2
57.5°	520.1	527.0	520.1	523.6	530.7	520.1	516.5	505.9	513.0	505.9	509.5
60°	404.1	404.1	404.1	400.6	400.6	397.0	397.0	393.6	393.6	386.5	393.6
62.5°	298.7	302.1	302.1	302.1	305.8	302.1	298.7	302.1	298.7	298.7	302.1
65°	196.8	200.3	200.3	196.8	203.8	196.8	200.3	203.8	207.3	203.8	207.3
67.5°	133.5	133.5	137.1	140.6	137.1	140.6	144.1	140.6	144.1	151.1	144.1
70°	98.4	102.0	102.0	98.4	94.9	98.4	94.9	105.4	105.4	105.4	112.4
72.5°	63.2	63.2	59.7	59.7	59.7	59.7	59.7	70.3	63.2	59.7	66.8
75°	35.1	38.6	38.6	28.1	31.7	38.6	28.1	31.7	42.2	35.1	42.2
77.5°	21.1	21.1	21.1	21.1	21.1	21.1	28.1	24.6	24.6	24.6	28.1
80°	17.5	14.0	14.0	10.6	14.0	14.0	14.0	21.1	17.5	17.5	21.1
82.5°	7.1	7.1	3.5	0.0	7.1	7.1	7.1	7.1	7.1	7.1	14.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	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: P249006

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7189.4	7189.4	7185.9	7178.9	7164.8	7164.8	7161.3	7150.7	7143.8	7140.2	7140.2
5°	7154.2	7140.2	7126.2	7087.5	7087.5	7080.5	7059.5	7045.3	7038.4	7020.7	7013.8
7.5°	7122.7	7080.5	7055.9	7031.3	6999.7	6985.6	6961.0	6950.4	6925.8	6908.3	6897.8
10°	7045.3	7017.2	6985.6	6947.0	6922.4	6894.3	6866.1	6845.1	6813.5	6795.8	6781.8
12.5°	6992.7	6950.4	6922.4	6880.1	6838.0	6813.5	6774.8	6750.2	6718.6	6683.4	6662.3
15°	6943.5	6897.8	6859.2	6813.5	6767.8	6739.7	6694.0	6665.9	6620.2	6585.1	6560.5
17.5°	6869.7	6831.0	6788.9	6732.6	6690.5	6655.4	6606.0	6571.0	6528.8	6483.1	6458.5
20°	6792.3	6746.6	6704.5	6648.3	6606.0	6564.0	6514.8	6476.2	6426.8	6384.8	6356.7
22.5°	6690.5	6637.7	6602.6	6546.3	6497.1	6451.6	6405.9	6360.2	6314.5	6279.3	6247.6
25°	6542.8	6486.6	6448.0	6402.3	6356.7	6321.6	6265.3	6237.2	6191.5	6159.9	6128.2
27.5°	6332.0	6289.9	6254.7	6209.0	6170.4	6142.3	6100.1	6072.1	6033.3	6005.2	5980.6
30°	6022.9	5987.7	5956.1	5910.4	5882.3	5857.7	5818.9	5794.4	5766.3	5734.6	5727.7
32.5°	5608.2	5580.0	5548.5	5516.8	5495.7	5481.7	5450.0	5436.0	5407.9	5390.2	5372.7
35°	4982.7	4958.1	4940.6	4926.5	4919.5	4922.9	4916.0	4930.0	4937.0	4933.5	4937.0
37.5°	4164.0	4149.9	4156.9	4167.5	4202.7	4248.4	4290.4	4353.7	4395.9	4438.1	4476.7
40°	3250.4	3260.9	3289.0	3352.2	3443.6	3545.6	3640.5	3759.9	3879.4	3963.7	4041.0
42.5°	2452.7	2484.4	2554.5	2645.9	2783.1	2934.1	3081.7	3257.3	3401.5	3542.0	3640.5
45°	1844.8	1886.9	1978.3	2104.9	2255.9	2431.6	2617.9	2814.6	2986.9	3130.9	3239.8
47.5°	1437.2	1475.9	1567.3	1700.8	1886.9	2069.7	2263.0	2466.7	2645.9	2786.5	2881.4
50°	1134.9	1184.1	1265.0	1405.6	1591.9	1785.1	1985.4	2185.6	2354.4	2473.8	2558.2
52.5°	892.5	938.2	1015.5	1163.2	1352.9	1546.1	1732.3	1929.1	2076.7	2192.7	2248.9
55°	692.2	734.5	815.2	938.2	1117.4	1307.2	1493.4	1662.1	1799.1	1883.4	1936.2
57.5°	527.0	558.7	615.0	737.9	899.6	1075.2	1233.4	1402.1	1507.5	1567.3	1602.3
60°	400.6	425.2	485.0	579.8	727.4	878.5	1012.0	1138.6	1222.9	1272.1	1307.2
62.5°	302.1	330.3	372.4	453.3	565.7	688.8	801.1	896.0	966.3	998.0	1022.6
65°	207.3	228.4	260.1	323.3	418.1	505.9	593.9	664.2	709.9	745.0	759.0
67.5°	154.6	168.6	186.3	235.5	302.1	372.4	432.2	481.3	530.7	544.7	569.3
70°	116.0	126.6	144.1	179.2	217.8	267.0	316.3	344.4	379.5	404.1	411.2
72.5°	73.8	77.2	94.9	116.0	147.5	179.2	210.9	235.5	256.6	270.6	277.6
75°	42.2	63.2	63.2	84.3	105.4	119.5	140.6	158.1	168.6	179.2	179.2
77.5°	28.1	38.6	42.2	52.6	63.2	80.9	98.4	108.9	119.5	122.9	122.9
80°	24.6	28.1	28.1	38.6	45.7	59.7	70.3	73.8	80.9	84.3	91.4
82.5°	10.6	14.0	17.5	28.1	31.7	31.7	42.2	45.7	52.6	56.3	56.3
85°	3.5	7.1	7.1	10.6	17.5	21.1	24.6	28.1	31.7	31.7	35.1
87.5°	3.5	3.5	0.0	3.5	7.1	7.1	14.0	14.0	14.0	21.1	21.1
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: P249006

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7133.2	7136.7	7122.7	7119.2	7112.1	7115.6	7122.7
5°	7003.2	7006.7	6992.7	6978.6	6978.6	6975.0	6978.6
7.5°	6880.1	6883.7	6862.6	6855.5	6841.5	6845.1	6845.1
10°	6757.2	6757.2	6725.7	6722.0	6711.5	6708.0	6708.0
12.5°	6637.7	6627.2	6602.6	6588.5	6595.6	6574.5	6574.5
15°	6532.3	6514.8	6483.1	6472.6	6455.0	6448.0	6448.0
17.5°	6423.4	6409.3	6381.3	6360.2	6339.1	6335.6	6339.1
20°	6317.9	6303.9	6268.8	6254.7	6237.2	6237.2	6230.1
22.5°	6212.5	6198.5	6166.9	6156.4	6131.8	6131.8	6135.3
25°	6103.6	6093.0	6057.9	6050.9	6047.5	6033.3	6040.4
27.5°	5956.1	5949.0	5920.9	5910.4	5896.3	5892.9	5899.8
30°	5685.4	5674.9	5653.9	5643.4	5618.8	5622.2	5629.2
32.5°	5348.2	5334.1	5305.9	5295.4	5274.4	5267.3	5270.8
35°	4926.5	4916.0	4891.4	4891.4	4870.3	4863.2	4870.3
37.5°	4497.9	4508.3	4497.9	4508.3	4497.9	4494.2	4497.9
40°	4093.7	4132.4	4139.3	4178.1	4164.0	4185.0	4181.5
42.5°	3707.1	3770.3	3795.1	3826.6	3819.7	3833.7	3844.2
45°	3317.1	3369.8	3394.4	3415.6	3419.0	3426.1	3429.6
47.5°	2948.1	2990.3	2993.8	3018.4	3014.9	3014.9	3025.5
50°	2603.9	2631.9	2638.9	2656.5	2642.5	2635.4	2638.9
52.5°	2284.1	2312.1	2305.0	2312.1	2294.6	2287.5	2291.0
55°	1957.2	1971.2	1971.2	1971.2	1950.3	1950.3	1950.3
57.5°	1623.4	1627.0	1619.9	1623.4	1619.9	1598.8	1595.3
60°	1317.8	1317.8	1314.2	1317.8	1307.2	1296.7	1296.7
62.5°	1029.5	1036.6	1050.6	1036.6	1029.5	1036.6	1026.0
65°	769.6	783.6	780.0	787.1	783.6	783.6	776.5
67.5°	579.8	583.3	586.8	590.4	590.4	590.4	590.4
70°	425.2	435.8	432.2	432.2	432.2	432.2	453.3
72.5°	284.6	298.7	295.2	302.1	302.1	309.2	302.1
75°	193.2	207.3	200.3	210.9	207.3	200.3	217.8
77.5°	130.0	137.1	140.6	144.1	140.6	137.1	140.6
80°	91.4	98.4	94.9	98.4	98.4	98.4	102.0
82.5°	56.3	66.8	63.2	66.8	63.2	66.8	66.8
85°	38.6	42.2	35.1	42.2	38.6	38.6	45.7
87.5°	24.6	21.1	21.1	24.6	21.1	24.6	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)