

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: P249079

Luminaire Tested: **LD8B150D010 ER8B1509730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249079
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: LD8B150D010 ER8B1509730 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11846.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

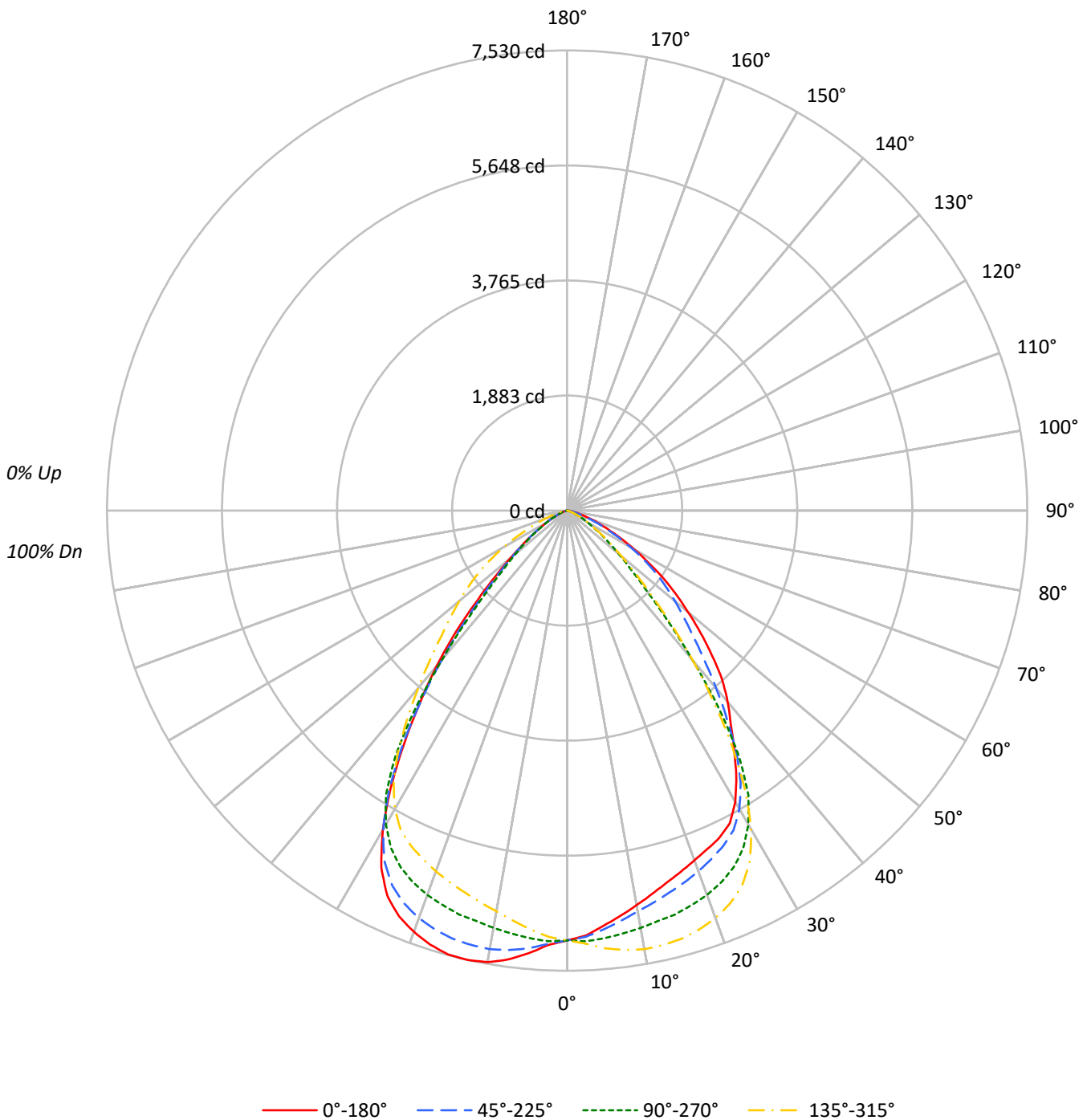
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.4	5.7
10°-20°	1938.4	16.4
20°-30°	2935.1	24.8
30°-40°	2941.7	24.8
40°-50°	1847.2	15.6
50°-60°	984.4	8.3
60°-70°	404.8	3.4
70°-80°	106.9	0.9
80°-90°	18.1	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°	5542.9	46.8
0°-40°	8484.5	71.6
0°-60°	11316.2	95.5
0°-90°	11846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11846.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7033	7033	7033	7033	7033	
5°	6820	7022	7273	7022	6820	643
15°	6301	6840	7520	6840	6301	1782
25°	5903	6442	6960	6442	5903	2707
35°	4759	4893	4643	4893	4759	2982
45°	3352	1792	2074	1792	3352	2578
55°	1906	663	700	663	1906	1699
65°	759	202	185	202	759	787
75°	213	41	34	41	213	241
85°	45	0	3	0	45	49
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°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	6960.5	6953.6	6950.2	6957.1	6960.5	6974.2	6970.8	6977.6	6977.6	6981.1	6987.9
5°	6819.7	6816.2	6819.7	6819.7	6833.4	6847.2	6843.8	6854.1	6860.9	6878.1	6884.9
7.5°	6689.3	6689.3	6685.7	6699.5	6706.4	6727.0	6723.5	6740.7	6751.0	6768.1	6792.2
10°	6555.3	6555.3	6558.7	6569.0	6572.5	6603.3	6603.3	6627.4	6641.1	6658.3	6689.3
12.5°	6424.8	6424.8	6445.5	6438.5	6452.2	6476.3	6486.6	6510.6	6531.3	6565.6	6596.6
15°	6301.2	6301.2	6308.1	6325.2	6335.5	6366.5	6383.6	6411.1	6435.1	6469.5	6514.2
17.5°	6194.7	6191.3	6194.7	6215.4	6236.0	6263.4	6277.1	6311.5	6335.5	6380.2	6421.4
20°	6088.3	6095.2	6095.2	6112.3	6126.0	6160.4	6174.1	6212.0	6239.4	6280.5	6328.7
22.5°	5995.6	5992.2	5992.2	6016.2	6026.5	6057.3	6071.0	6105.4	6136.3	6170.7	6215.4
25°	5902.9	5895.9	5909.8	5913.2	5920.0	5954.3	5964.6	5988.6	6019.6	6050.6	6095.2
27.5°	5765.5	5758.7	5762.1	5775.8	5786.1	5813.5	5820.4	5844.5	5868.5	5895.9	5933.8
30°	5501.0	5494.2	5490.8	5514.9	5525.2	5545.7	5556.0	5597.3	5604.1	5635.0	5662.4
32.5°	5150.8	5147.4	5154.3	5174.8	5185.1	5212.7	5226.4	5250.4	5267.5	5284.8	5312.2
35°	4759.4	4752.5	4759.4	4780.0	4780.0	4804.1	4814.4	4824.6	4821.2	4824.6	4817.8
37.5°	4395.4	4391.9	4395.4	4405.6	4395.4	4405.6	4395.4	4374.8	4337.1	4295.8	4254.5
40°	4086.3	4089.7	4069.2	4082.9	4045.1	4038.3	4000.5	3948.9	3873.5	3791.1	3674.3
42.5°	3756.7	3746.4	3732.7	3739.5	3708.7	3684.5	3622.7	3557.6	3461.3	3324.1	3183.2
45°	3351.5	3348.1	3341.2	3337.8	3317.1	3293.1	3241.5	3166.1	3059.6	2918.8	2750.5
47.5°	2956.6	2946.3	2946.3	2949.7	2925.6	2922.2	2881.0	2815.8	2723.1	2585.7	2410.6
50°	2578.8	2575.4	2582.3	2596.0	2578.8	2572.0	2544.6	2499.9	2417.5	2300.8	2135.8
52.5°	2238.9	2235.5	2242.4	2259.5	2252.6	2259.5	2232.1	2197.7	2142.7	2029.4	1885.2
55°	1905.9	1905.9	1905.9	1926.3	1926.3	1926.3	1912.6	1892.1	1840.6	1758.1	1624.3
57.5°	1559.0	1562.4	1583.0	1586.4	1583.0	1590.0	1586.4	1565.8	1531.6	1473.2	1370.2
60°	1267.1	1267.1	1277.4	1287.8	1284.2	1287.8	1287.8	1277.4	1243.1	1195.0	1112.6
62.5°	1002.7	1013.0	1006.1	1013.0	1026.7	1013.0	1006.1	999.3	975.3	944.3	875.6
65°	758.9	765.8	765.8	769.2	762.3	765.8	752.1	741.8	728.1	693.7	649.0
67.5°	577.0	577.0	577.0	577.0	573.4	570.0	566.6	556.3	532.3	518.6	470.4
70°	443.0	422.3	422.3	422.3	422.3	425.9	415.5	401.8	394.9	370.9	336.5
72.5°	295.3	302.2	295.3	295.3	288.5	291.9	278.2	271.2	264.5	250.7	230.1
75°	212.9	195.8	202.5	206.1	195.8	202.5	188.8	175.1	175.1	164.8	154.5
77.5°	137.4	134.0	137.4	140.8	137.4	134.0	127.1	120.1	120.1	116.7	106.4
80°	99.6	96.1	96.1	96.1	92.7	96.1	89.3	89.3	82.4	79.0	72.1
82.5°	65.3	65.3	61.8	65.3	61.8	65.3	55.0	55.0	55.0	51.4	44.7
85°	44.7	37.7	37.7	41.3	34.3	41.3	37.7	34.3	31.0	31.0	27.4
87.5°	20.6	24.0	20.6	24.0	20.6	20.6	24.0	20.6	20.6	13.7	13.7
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°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	6998.2	7001.6	7001.6	7015.5	7022.3	7025.7	7025.7	7053.2	7042.9	7049.8	7056.6
5°	6898.7	6919.2	6926.2	6926.2	6963.9	6977.6	6991.3	7022.3	7025.7	7046.3	7070.3
7.5°	6802.5	6826.5	6840.4	6871.2	6895.2	6919.2	6960.5	6981.1	7001.6	7029.2	7060.0
10°	6709.8	6737.3	6764.8	6788.8	6826.5	6857.5	6884.9	6932.9	6957.1	6994.9	7036.0
12.5°	6620.6	6658.3	6682.4	6723.5	6764.8	6792.2	6833.4	6878.1	6915.8	6953.6	7001.6
15°	6541.6	6586.2	6613.7	6658.3	6703.0	6740.7	6785.4	6840.4	6867.8	6912.5	6957.1
17.5°	6455.6	6503.8	6538.2	6579.3	6634.3	6675.4	6713.3	6768.1	6802.5	6850.5	6902.1
20°	6366.5	6414.5	6455.6	6496.9	6551.9	6593.0	6637.7	6692.7	6730.4	6778.5	6819.7
22.5°	6260.0	6304.7	6349.2	6397.3	6452.2	6486.6	6538.2	6586.2	6627.4	6672.0	6713.3
25°	6122.6	6177.6	6212.0	6256.5	6301.2	6338.9	6393.9	6441.9	6476.3	6517.5	6555.3
27.5°	5961.2	6002.5	6029.9	6067.7	6112.3	6146.7	6187.8	6236.0	6270.3	6308.1	6335.5
30°	5686.5	5724.3	5748.4	5775.8	5820.4	5851.4	5885.7	5930.3	5954.3	5981.9	6005.9
32.5°	5325.9	5356.8	5370.6	5391.2	5422.1	5453.0	5480.5	5518.3	5528.6	5545.7	5545.7
35°	4804.1	4810.8	4807.5	4814.4	4828.1	4845.2	4869.2	4893.2	4907.0	4907.0	4896.8
37.5°	4192.8	4151.6	4107.0	4072.6	4062.3	4055.4	4069.2	4079.4	4093.3	4100.0	4082.9
40°	3557.6	3464.8	3365.2	3275.9	3214.1	3186.7	3176.4	3183.2	3183.2	3207.2	3207.2
42.5°	3011.6	2867.3	2719.7	2585.7	2496.4	2427.8	2396.9	2396.9	2400.3	2417.5	2427.8
45°	2558.3	2376.2	2204.5	2056.9	1933.3	1843.9	1802.8	1792.5	1789.1	1795.9	1819.9
47.5°	2211.4	2022.6	1843.9	1662.0	1531.6	1442.3	1404.5	1390.7	1377.0	1390.7	1394.2
50°	1940.2	1744.4	1555.6	1373.6	1236.2	1157.2	1109.1	1088.5	1085.1	1085.1	1092.0
52.5°	1692.8	1510.9	1322.1	1136.7	992.4	916.9	872.2	861.9	848.2	861.9	861.9
55°	1459.4	1277.4	1092.0	916.9	796.6	717.7	676.5	662.8	655.8	666.1	666.1
57.5°	1205.4	1050.7	879.1	721.1	601.0	546.0	515.0	497.9	494.4	501.3	494.4
60°	989.0	858.5	710.8	566.6	473.9	415.5	391.5	384.6	377.7	384.6	384.6
62.5°	782.9	673.1	552.8	443.0	364.0	322.8	295.3	295.3	291.9	291.9	295.3
65°	580.3	494.4	408.6	315.9	254.1	223.2	202.5	202.5	199.2	202.5	199.2
67.5°	422.3	364.0	295.3	230.1	182.0	164.8	151.1	140.8	147.7	140.8	137.4
70°	309.1	260.9	212.9	175.1	140.8	123.7	113.4	109.8	103.0	103.0	103.0
72.5°	206.1	175.1	144.2	113.4	92.7	75.5	72.1	65.3	58.4	61.8	68.7
75°	137.4	116.7	103.0	82.4	61.8	61.8	41.3	41.3	34.3	41.3	31.0
77.5°	96.1	79.0	61.8	51.4	41.3	37.7	27.4	27.4	24.0	24.0	24.0
80°	68.7	58.4	44.7	37.7	27.4	27.4	24.0	20.6	17.1	17.1	20.6
82.5°	41.3	31.0	31.0	27.4	17.1	13.7	10.3	13.7	6.9	6.9	6.9
85°	24.0	20.6	17.1	10.3	6.9	6.9	3.4	0.0	3.4	3.4	0.0
87.5°	13.7	6.9	6.9	3.4	0.0	3.4	3.4	0.0	0.0	0.0	6.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	7073.9	7070.3	7077.3	7077.3	7097.9	7094.4	7104.7	7104.7	7097.9	7101.3	7115.0
5°	7097.9	7108.2	7128.7	7146.0	7176.8	7190.6	7207.7	7225.0	7228.4	7238.7	7249.0
7.5°	7097.9	7132.2	7156.3	7187.1	7228.4	7252.4	7290.1	7321.1	7334.8	7351.9	7372.5
10°	7084.0	7118.4	7163.1	7197.4	7249.0	7286.7	7324.5	7372.5	7393.2	7420.6	7448.1
12.5°	7056.6	7094.4	7142.4	7187.1	7245.5	7279.8	7327.9	7372.5	7403.5	7441.2	7472.2
15°	7015.5	7060.0	7104.7	7149.3	7211.1	7252.4	7297.0	7348.5	7379.4	7420.6	7448.1
17.5°	6950.2	6998.2	7039.5	7080.7	7139.0	7187.1	7228.4	7276.4	7307.4	7341.7	7379.4
20°	6871.2	6915.8	6960.5	6994.9	7053.2	7094.4	7139.0	7183.7	7207.7	7214.6	7273.0
22.5°	6771.7	6802.5	6836.8	6891.8	6926.2	6963.9	7005.2	7046.3	7070.3	7108.2	7128.7
25°	6606.7	6637.7	6675.4	6699.5	6740.7	6771.7	6812.8	6857.5	6871.2	6898.7	6919.2
27.5°	6376.8	6393.9	6411.1	6431.6	6455.6	6472.9	6496.9	6517.5	6531.3	6545.0	6558.7
30°	6012.7	6012.7	6012.7	5999.0	6009.3	6019.6	6023.0	6019.6	6019.6	6016.2	6016.2
32.5°	5532.0	5504.6	5473.6	5446.2	5435.9	5422.1	5415.2	5404.9	5387.8	5377.5	5380.9
35°	4882.9	4821.2	4783.4	4749.1	4721.7	4701.0	4690.7	4680.4	4677.0	4663.3	4649.4
37.5°	4072.6	4028.0	4000.5	3979.9	3955.9	3935.2	3938.6	3942.2	3952.3	3945.6	3948.9
40°	3214.1	3203.8	3214.1	3190.1	3183.2	3190.1	3207.2	3231.4	3245.1	3258.8	3282.8
42.5°	2444.9	2462.0	2486.2	2486.2	2496.4	2510.2	2530.7	2568.6	2589.1	2613.1	2640.7
45°	1840.6	1861.2	1892.1	1902.3	1909.2	1926.3	1950.5	1981.3	1995.0	2015.7	2039.7
47.5°	1418.2	1431.9	1449.0	1466.3	1483.4	1490.3	1514.3	1514.3	1531.6	1545.3	1552.1
50°	1105.7	1119.4	1133.1	1143.5	1150.4	1160.7	1167.5	1177.8	1181.2	1188.1	1191.5
52.5°	865.3	882.5	882.5	889.3	899.6	910.0	906.6	910.0	913.3	913.3	923.7
55°	676.5	676.5	686.8	686.8	693.7	690.2	693.7	693.7	693.7	693.7	697.1
57.5°	504.7	508.3	518.6	511.7	508.3	515.0	508.3	515.0	511.7	518.6	508.3
60°	388.0	388.0	391.5	391.5	394.9	394.9	394.9	391.5	391.5	388.0	388.0
62.5°	291.9	295.3	298.8	295.3	295.3	295.3	291.9	291.9	288.5	284.9	284.9
65°	195.8	192.4	199.2	192.4	195.8	195.8	192.4	195.8	185.4	188.8	185.4
67.5°	140.8	137.4	134.0	137.4	134.0	130.5	130.5	134.0	137.4	127.1	127.1
70°	92.7	96.1	92.7	96.1	99.6	99.6	96.1	92.7	96.1	89.3	92.7
72.5°	58.4	58.4	58.4	58.4	58.4	61.8	61.8	61.8	55.0	55.0	51.4
75°	27.4	37.7	31.0	27.4	37.7	37.7	34.3	34.3	31.0	31.0	31.0
77.5°	27.4	20.6	20.6	20.6	20.6	20.6	20.6	20.6	17.1	20.6	17.1
80°	13.7	13.7	13.7	10.3	13.7	13.7	17.1	13.7	13.7	10.3	17.1
82.5°	6.9	6.9	6.9	0.0	3.4	6.9	6.9	3.4	6.9	6.9	3.4
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: P249079

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	7111.6	7108.2	7111.6	7115.0	7111.6	7108.2	7111.6	7115.0	7101.3	7097.9	7104.7
5°	7262.7	7262.7	7269.5	7273.0	7269.5	7262.7	7262.7	7249.0	7238.7	7228.4	7225.0
7.5°	7393.2	7400.1	7406.9	7410.3	7406.9	7400.1	7393.2	7372.5	7351.9	7334.8	7321.1
10°	7472.2	7482.5	7496.2	7503.0	7496.2	7482.5	7472.2	7448.1	7420.6	7393.2	7372.5
12.5°	7506.5	7516.8	7533.9	7530.5	7533.9	7516.8	7506.5	7472.2	7441.2	7403.5	7372.5
15°	7482.5	7496.2	7513.3	7520.2	7513.3	7496.2	7482.5	7448.1	7420.6	7379.4	7348.5
17.5°	7406.9	7427.5	7437.8	7448.1	7437.8	7427.5	7406.9	7379.4	7341.7	7307.4	7276.4
20°	7303.8	7317.7	7331.4	7334.8	7331.4	7317.7	7303.8	7273.0	7214.6	7207.7	7183.7
22.5°	7156.3	7166.6	7197.4	7187.1	7197.4	7166.6	7156.3	7128.7	7108.2	7070.3	7046.3
25°	6943.3	6953.6	6957.1	6960.5	6957.1	6953.6	6943.3	6919.2	6898.7	6871.2	6857.5
27.5°	6575.9	6575.9	6582.7	6586.2	6582.7	6575.9	6575.9	6558.7	6545.0	6531.3	6517.5
30°	6019.6	6019.6	6019.6	6036.8	6019.6	6019.6	6019.6	6016.2	6016.2	6019.6	6019.6
32.5°	5377.5	5370.6	5363.8	5370.6	5363.8	5370.6	5377.5	5380.9	5377.5	5387.8	5404.9
35°	4649.4	4646.0	4656.4	4642.6	4656.4	4646.0	4649.4	4649.4	4663.3	4677.0	4680.4
37.5°	3952.3	3945.6	3959.3	3945.6	3959.3	3945.6	3952.3	3948.9	3945.6	3952.3	3942.2
40°	3289.7	3296.5	3296.5	3324.1	3296.5	3296.5	3289.7	3282.8	3258.8	3245.1	3231.4
42.5°	2654.4	2675.0	2668.1	2688.7	2668.1	2675.0	2654.4	2640.7	2613.1	2589.1	2568.6
45°	2053.4	2067.3	2067.3	2074.0	2067.3	2067.3	2053.4	2039.7	2015.7	1995.0	1981.3
47.5°	1576.1	1576.1	1576.1	1579.6	1576.1	1576.1	1576.1	1552.1	1545.3	1531.6	1514.3
50°	1198.4	1201.8	1205.4	1208.8	1205.4	1201.8	1198.4	1191.5	1188.1	1181.2	1177.8
52.5°	920.3	923.7	916.9	923.7	916.9	923.7	920.3	923.7	913.3	913.3	910.0
55°	697.1	693.7	697.1	700.5	697.1	693.7	697.1	697.1	693.7	693.7	693.7
57.5°	511.7	504.7	504.7	504.7	504.7	504.7	511.7	508.3	518.6	511.7	515.0
60°	381.2	384.6	384.6	388.0	384.6	384.6	381.2	388.0	388.0	391.5	391.5
62.5°	281.6	291.9	284.9	291.9	284.9	291.9	281.6	284.9	284.9	288.5	291.9
65°	182.0	182.0	182.0	185.4	182.0	182.0	182.0	185.4	188.8	185.4	195.8
67.5°	123.7	127.1	134.0	130.5	134.0	127.1	123.7	127.1	127.1	137.4	134.0
70°	99.6	89.3	89.3	99.6	89.3	89.3	99.6	92.7	89.3	96.1	92.7
72.5°	58.4	51.4	58.4	58.4	58.4	51.4	58.4	51.4	55.0	55.0	61.8
75°	31.0	27.4	24.0	34.3	24.0	27.4	31.0	31.0	31.0	31.0	34.3
77.5°	20.6	17.1	24.0	24.0	24.0	17.1	20.6	17.1	20.6	17.1	20.6
80°	10.3	13.7	10.3	17.1	10.3	13.7	10.3	17.1	10.3	13.7	13.7
82.5°	3.4	6.9	6.9	6.9	6.9	6.9	3.4	3.4	6.9	6.9	3.4
85°	0.0	6.9	3.4	3.4	3.4	6.9	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.0	0.0	3.4	0.0	0.0	3.4	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: P249079

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	7104.7	7094.4	7097.9	7077.3	7077.3	7070.3	7073.9	7056.6	7049.8	7042.9	7053.2
5°	7207.7	7190.6	7176.8	7146.0	7128.7	7108.2	7097.9	7070.3	7046.3	7025.7	7022.3
7.5°	7290.1	7252.4	7228.4	7187.1	7156.3	7132.2	7097.9	7060.0	7029.2	7001.6	6981.1
10°	7324.5	7286.7	7249.0	7197.4	7163.1	7118.4	7084.0	7036.0	6994.9	6957.1	6932.9
12.5°	7327.9	7279.8	7245.5	7187.1	7142.4	7094.4	7056.6	7001.6	6953.6	6915.8	6878.1
15°	7297.0	7252.4	7211.1	7149.3	7104.7	7060.0	7015.5	6957.1	6912.5	6867.8	6840.4
17.5°	7228.4	7187.1	7139.0	7080.7	7039.5	6998.2	6950.2	6902.1	6850.5	6802.5	6768.1
20°	7139.0	7094.4	7053.2	6994.9	6960.5	6915.8	6871.2	6819.7	6778.5	6730.4	6692.7
22.5°	7005.2	6963.9	6926.2	6891.8	6836.8	6802.5	6771.7	6713.3	6672.0	6627.4	6586.2
25°	6812.8	6771.7	6740.7	6699.5	6675.4	6637.7	6606.7	6555.3	6517.5	6476.3	6441.9
27.5°	6496.9	6472.9	6455.6	6431.6	6411.1	6393.9	6376.8	6335.5	6308.1	6270.3	6236.0
30°	6023.0	6019.6	6009.3	5999.0	6012.7	6012.7	6012.7	6005.9	5981.9	5954.3	5930.3
32.5°	5415.2	5422.1	5435.9	5446.2	5473.6	5504.6	5532.0	5545.7	5545.7	5528.6	5518.3
35°	4690.7	4701.0	4721.7	4749.1	4783.4	4821.2	4882.9	4896.8	4907.0	4907.0	4893.2
37.5°	3938.6	3935.2	3955.9	3979.9	4000.5	4028.0	4072.6	4082.9	4100.0	4093.3	4079.4
40°	3207.2	3190.1	3183.2	3190.1	3214.1	3203.8	3214.1	3207.2	3207.2	3183.2	3183.2
42.5°	2530.7	2510.2	2496.4	2486.2	2486.2	2462.0	2444.9	2427.8	2417.5	2400.3	2396.9
45°	1950.5	1926.3	1909.2	1902.3	1892.1	1861.2	1840.6	1819.9	1795.9	1789.1	1792.5
47.5°	1514.3	1490.3	1483.4	1466.3	1449.0	1431.9	1418.2	1394.2	1390.7	1377.0	1390.7
50°	1167.5	1160.7	1150.4	1143.5	1133.1	1119.4	1105.7	1092.0	1085.1	1085.1	1088.5
52.5°	906.6	910.0	899.6	889.3	882.5	882.5	865.3	861.9	861.9	848.2	861.9
55°	693.7	690.2	693.7	686.8	686.8	676.5	676.5	666.1	666.1	655.8	662.8
57.5°	508.3	515.0	508.3	511.7	518.6	508.3	504.7	494.4	501.3	494.4	497.9
60°	394.9	394.9	394.9	391.5	391.5	388.0	388.0	384.6	384.6	377.7	384.6
62.5°	291.9	295.3	295.3	295.3	298.8	295.3	291.9	295.3	291.9	291.9	295.3
65°	192.4	195.8	195.8	192.4	199.2	192.4	195.8	199.2	202.5	199.2	202.5
67.5°	130.5	130.5	134.0	137.4	134.0	137.4	140.8	137.4	140.8	147.7	140.8
70°	96.1	99.6	99.6	96.1	92.7	96.1	92.7	103.0	103.0	103.0	109.8
72.5°	61.8	61.8	58.4	58.4	58.4	58.4	58.4	68.7	61.8	58.4	65.3
75°	34.3	37.7	37.7	27.4	31.0	37.7	27.4	31.0	41.3	34.3	41.3
77.5°	20.6	20.6	20.6	20.6	20.6	20.6	27.4	24.0	24.0	24.0	27.4
80°	17.1	13.7	13.7	10.3	13.7	13.7	13.7	20.6	17.1	17.1	20.6
82.5°	6.9	6.9	3.4	0.0	6.9	6.9	6.9	6.9	6.9	6.9	13.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	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: P249079

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	7025.7	7025.7	7022.3	7015.5	7001.6	7001.6	6998.2	6987.9	6981.1	6977.6	6977.6
5°	6991.3	6977.6	6963.9	6926.2	6926.2	6919.2	6898.7	6884.9	6878.1	6860.9	6854.1
7.5°	6960.5	6919.2	6895.2	6871.2	6840.4	6826.5	6802.5	6792.2	6768.1	6751.0	6740.7
10°	6884.9	6857.5	6826.5	6788.8	6764.8	6737.3	6709.8	6689.3	6658.3	6641.1	6627.4
12.5°	6833.4	6792.2	6764.8	6723.5	6682.4	6658.3	6620.6	6596.6	6565.6	6531.3	6510.6
15°	6785.4	6740.7	6703.0	6658.3	6613.7	6586.2	6541.6	6514.2	6469.5	6435.1	6411.1
17.5°	6713.3	6675.4	6634.3	6579.3	6538.2	6503.8	6455.6	6421.4	6380.2	6335.5	6311.5
20°	6637.7	6593.0	6551.9	6496.9	6455.6	6414.5	6366.5	6328.7	6280.5	6239.4	6212.0
22.5°	6538.2	6486.6	6452.2	6397.3	6349.2	6304.7	6260.0	6215.4	6170.7	6136.3	6105.4
25°	6393.9	6338.9	6301.2	6256.5	6212.0	6177.6	6122.6	6095.2	6050.6	6019.6	5988.6
27.5°	6187.8	6146.7	6112.3	6067.7	6029.9	6002.5	5961.2	5933.8	5895.9	5868.5	5844.5
30°	5885.7	5851.4	5820.4	5775.8	5748.4	5724.3	5686.5	5662.4	5635.0	5604.1	5597.3
32.5°	5480.5	5453.0	5422.1	5391.2	5370.6	5356.8	5325.9	5312.2	5284.8	5267.5	5250.4
35°	4869.2	4845.2	4828.1	4814.4	4807.5	4810.8	4804.1	4817.8	4824.6	4821.2	4824.6
37.5°	4069.2	4055.4	4062.3	4072.6	4107.0	4151.6	4192.8	4254.5	4295.8	4337.1	4374.8
40°	3176.4	3186.7	3214.1	3275.9	3365.2	3464.8	3557.6	3674.3	3791.1	3873.5	3948.9
42.5°	2396.9	2427.8	2496.4	2585.7	2719.7	2867.3	3011.6	3183.2	3324.1	3461.3	3557.6
45°	1802.8	1843.9	1933.3	2056.9	2204.5	2376.2	2558.3	2750.5	2918.8	3059.6	3166.1
47.5°	1404.5	1442.3	1531.6	1662.0	1843.9	2022.6	2211.4	2410.6	2585.7	2723.1	2815.8
50°	1109.1	1157.2	1236.2	1373.6	1555.6	1744.4	1940.2	2135.8	2300.8	2417.5	2499.9
52.5°	872.2	916.9	992.4	1136.7	1322.1	1510.9	1692.8	1885.2	2029.4	2142.7	2197.7
55°	676.5	717.7	796.6	916.9	1092.0	1277.4	1459.4	1624.3	1758.1	1840.6	1892.1
57.5°	515.0	546.0	601.0	721.1	879.1	1050.7	1205.4	1370.2	1473.2	1531.6	1565.8
60°	391.5	415.5	473.9	566.6	710.8	858.5	989.0	1112.6	1195.0	1243.1	1277.4
62.5°	295.3	322.8	364.0	443.0	552.8	673.1	782.9	875.6	944.3	975.3	999.3
65°	202.5	223.2	254.1	315.9	408.6	494.4	580.3	649.0	693.7	728.1	741.8
67.5°	151.1	164.8	182.0	230.1	295.3	364.0	422.3	470.4	518.6	532.3	556.3
70°	113.4	123.7	140.8	175.1	212.9	260.9	309.1	336.5	370.9	394.9	401.8
72.5°	72.1	75.5	92.7	113.4	144.2	175.1	206.1	230.1	250.7	264.5	271.2
75°	41.3	61.8	61.8	82.4	103.0	116.7	137.4	154.5	164.8	175.1	175.1
77.5°	27.4	37.7	41.3	51.4	61.8	79.0	96.1	106.4	116.7	120.1	120.1
80°	24.0	27.4	27.4	37.7	44.7	58.4	68.7	72.1	79.0	82.4	89.3
82.5°	10.3	13.7	17.1	27.4	31.0	31.0	41.3	44.7	51.4	55.0	55.0
85°	3.4	6.9	6.9	10.3	17.1	20.6	24.0	27.4	31.0	31.0	34.3
87.5°	3.4	3.4	0.0	3.4	6.9	6.9	13.7	13.7	13.7	20.6	20.6
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: P249079

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6	7032.6
2.5°	6970.8	6974.2	6960.5	6957.1	6950.2	6953.6	6960.5
5°	6843.8	6847.2	6833.4	6819.7	6819.7	6816.2	6819.7
7.5°	6723.5	6727.0	6706.4	6699.5	6685.7	6689.3	6689.3
10°	6603.3	6603.3	6572.5	6569.0	6558.7	6555.3	6555.3
12.5°	6486.6	6476.3	6452.2	6438.5	6445.5	6424.8	6424.8
15°	6383.6	6366.5	6335.5	6325.2	6308.1	6301.2	6301.2
17.5°	6277.1	6263.4	6236.0	6215.4	6194.7	6191.3	6194.7
20°	6174.1	6160.4	6126.0	6112.3	6095.2	6095.2	6088.3
22.5°	6071.0	6057.3	6026.5	6016.2	5992.2	5992.2	5995.6
25°	5964.6	5954.3	5920.0	5913.2	5909.8	5895.9	5902.9
27.5°	5820.4	5813.5	5786.1	5775.8	5762.1	5758.7	5765.5
30°	5556.0	5545.7	5525.2	5514.9	5490.8	5494.2	5501.0
32.5°	5226.4	5212.7	5185.1	5174.8	5154.3	5147.4	5150.8
35°	4814.4	4804.1	4780.0	4780.0	4759.4	4752.5	4759.4
37.5°	4395.4	4405.6	4395.4	4405.6	4395.4	4391.9	4395.4
40°	4000.5	4038.3	4045.1	4082.9	4069.2	4089.7	4086.3
42.5°	3622.7	3684.5	3708.7	3739.5	3732.7	3746.4	3756.7
45°	3241.5	3293.1	3317.1	3337.8	3341.2	3348.1	3351.5
47.5°	2881.0	2922.2	2925.6	2949.7	2946.3	2946.3	2956.6
50°	2544.6	2572.0	2578.8	2596.0	2582.3	2575.4	2578.8
52.5°	2232.1	2259.5	2252.6	2259.5	2242.4	2235.5	2238.9
55°	1912.6	1926.3	1926.3	1926.3	1905.9	1905.9	1905.9
57.5°	1586.4	1590.0	1583.0	1586.4	1583.0	1562.4	1559.0
60°	1287.8	1287.8	1284.2	1287.8	1277.4	1267.1	1267.1
62.5°	1006.1	1013.0	1026.7	1013.0	1006.1	1013.0	1002.7
65°	752.1	765.8	762.3	769.2	765.8	765.8	758.9
67.5°	566.6	570.0	573.4	577.0	577.0	577.0	577.0
70°	415.5	425.9	422.3	422.3	422.3	422.3	443.0
72.5°	278.2	291.9	288.5	295.3	295.3	302.2	295.3
75°	188.8	202.5	195.8	206.1	202.5	195.8	212.9
77.5°	127.1	134.0	137.4	140.8	137.4	134.0	137.4
80°	89.3	96.1	92.7	96.1	96.1	96.1	99.6
82.5°	55.0	65.3	61.8	65.3	61.8	65.3	65.3
85°	37.7	41.3	34.3	41.3	37.7	37.7	44.7
87.5°	24.0	20.6	20.6	24.0	20.6	24.0	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)