

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: P248755

Luminaire Tested: **LD8B150D010 ER8B150930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248755
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 ER8B150930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13302.9 lumens
Efficiency: N/A
Efficacy: 83.9 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

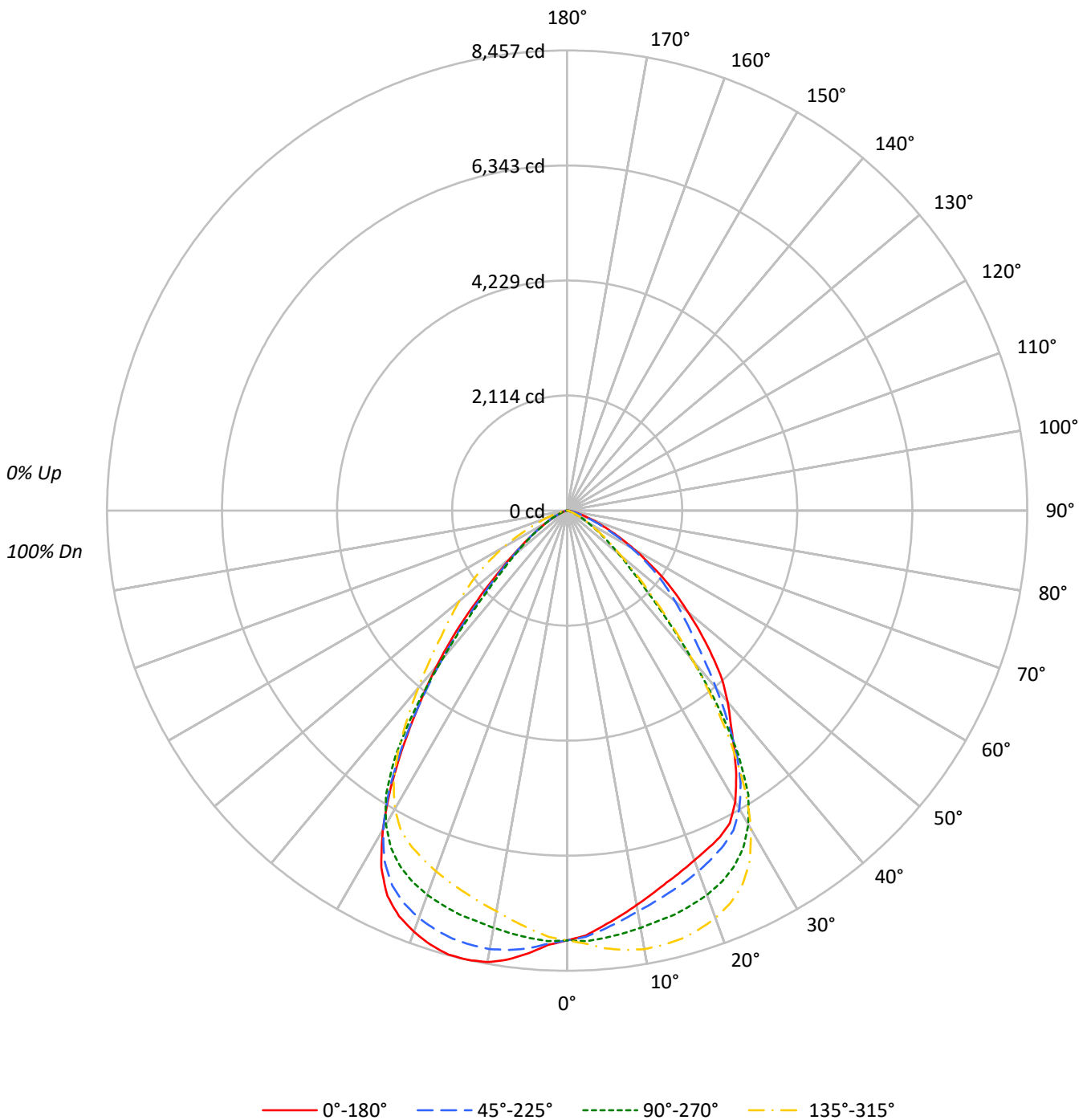
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	751.7	5.7
10°-20°	2176.8	16.4
20°-30°	3296.1	24.8
30°-40°	3303.5	24.8
40°-50°	2074.4	15.6
50°-60°	1105.5	8.3
60°-70°	454.6	3.4
70°-80°	120.1	0.9
80°-90°	20.3	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°	6224.6	46.8
0°-40°	9528.0	71.6
0°-60°	12707.9	95.5
0°-90°	13302.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13302.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7898	7898	7898	7898	7898	
5°	7658	7886	8168	7886	7658	722
15°	7076	7682	8445	7682	7076	2001
25°	6629	7234	7817	7234	6629	3040
35°	5345	5495	5214	5495	5345	3348
45°	3764	2013	2329	2013	3764	2895
55°	2140	744	787	744	2140	1908
65°	852	228	208	228	852	884
75°	239	46	39	46	239	271
85°	50	0	4	0	50	55
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°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7816.6	7808.8	7805.0	7812.8	7816.6	7832.0	7828.2	7835.8	7835.8	7839.7	7847.3
5°	7658.4	7654.5	7658.4	7658.4	7673.9	7689.3	7685.5	7697.0	7704.6	7724.0	7731.6
7.5°	7511.9	7511.9	7508.0	7523.4	7531.2	7554.3	7550.4	7569.8	7581.3	7600.5	7627.5
10°	7361.5	7361.5	7365.3	7376.9	7380.9	7415.4	7415.4	7442.4	7457.9	7477.2	7511.9
12.5°	7215.0	7215.0	7238.2	7230.4	7245.8	7272.8	7284.4	7311.4	7334.5	7373.0	7407.9
15°	7076.1	7076.1	7083.9	7103.1	7114.7	7149.4	7168.7	7199.6	7226.6	7265.2	7315.3
17.5°	6956.6	6952.8	6956.6	6979.8	7002.9	7033.7	7049.2	7087.7	7114.7	7164.9	7211.2
20°	6837.1	6844.8	6844.8	6864.1	6879.5	6918.0	6933.4	6976.0	7006.7	7052.9	7107.0
22.5°	6733.0	6729.1	6729.1	6756.2	6767.7	6802.3	6817.7	6856.3	6891.0	6929.6	6979.8
25°	6628.8	6621.1	6636.7	6640.5	6648.0	6686.7	6698.2	6725.2	6760.0	6794.7	6844.8
27.5°	6474.6	6466.9	6470.7	6486.1	6497.8	6528.5	6536.3	6563.2	6590.2	6621.1	6663.6
30°	6177.6	6170.0	6166.2	6193.1	6204.7	6227.7	6239.3	6285.7	6293.3	6328.0	6358.9
32.5°	5784.2	5780.4	5788.2	5811.3	5822.8	5853.7	5869.2	5896.1	5915.4	5934.7	5965.5
35°	5344.7	5337.0	5344.7	5367.9	5367.9	5394.9	5406.5	5417.9	5414.1	5417.9	5410.3
37.5°	4936.0	4932.1	4936.0	4947.4	4936.0	4947.4	4936.0	4912.9	4870.5	4824.1	4777.8
40°	4588.9	4592.7	4569.6	4585.1	4542.5	4534.9	4492.5	4434.6	4349.8	4257.3	4126.2
42.5°	4218.8	4207.1	4191.8	4199.4	4164.7	4137.6	4068.2	3995.1	3887.1	3732.9	3574.6
45°	3763.6	3759.8	3752.1	3748.3	3725.1	3698.2	3640.2	3555.5	3435.9	3277.8	3088.8
47.5°	3320.2	3308.6	3308.6	3312.4	3285.4	3281.6	3235.3	3162.1	3058.0	2903.7	2707.1
50°	2895.9	2892.2	2899.9	2915.3	2895.9	2888.4	2857.5	2807.3	2714.8	2583.7	2398.5
52.5°	2514.2	2510.4	2518.2	2537.4	2529.6	2537.4	2506.6	2468.0	2406.2	2279.0	2117.1
55°	2140.2	2140.2	2140.2	2163.3	2163.3	2163.3	2147.8	2124.9	2066.9	1974.4	1824.1
57.5°	1750.8	1754.6	1777.7	1781.5	1777.7	1785.5	1781.5	1758.4	1720.0	1654.4	1538.7
60°	1423.0	1423.0	1434.5	1446.1	1442.2	1446.1	1446.1	1434.5	1396.0	1342.1	1249.5
62.5°	1126.0	1137.6	1129.9	1137.6	1152.9	1137.6	1129.9	1122.2	1095.2	1060.5	983.3
65°	852.2	859.9	859.9	863.7	856.0	859.9	844.6	833.0	817.5	779.0	728.9
67.5°	647.9	647.9	647.9	647.9	643.9	640.1	636.3	624.7	597.7	582.4	528.2
70°	497.4	474.3	474.3	474.3	474.3	478.2	466.7	451.2	443.5	416.5	377.9
72.5°	331.6	339.3	331.6	331.6	324.0	327.8	312.4	304.6	297.0	281.6	258.4
75°	239.0	219.8	227.5	231.4	219.8	227.5	212.1	196.6	196.6	185.1	173.5
77.5°	154.2	150.4	154.2	158.1	154.2	150.4	142.7	135.0	135.0	131.2	119.5
80°	111.9	108.0	108.0	108.0	104.1	108.0	100.3	100.3	92.5	88.8	80.9
82.5°	73.3	73.3	69.4	73.3	69.4	73.3	61.8	61.8	61.8	57.7	50.1
85°	50.1	42.4	42.4	46.3	38.6	46.3	42.4	38.6	34.8	34.8	30.8
87.5°	23.2	27.0	23.2	27.0	23.2	23.2	27.0	23.2	23.2	15.4	15.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7859.0	7862.8	7862.8	7878.3	7885.9	7889.7	7889.7	7920.6	7909.1	7916.8	7924.5
5°	7747.2	7770.2	7777.9	7777.9	7820.3	7835.8	7851.1	7885.9	7889.7	7912.9	7939.9
7.5°	7639.1	7666.1	7681.7	7716.3	7743.2	7770.2	7816.6	7839.7	7862.8	7893.7	7928.3
10°	7535.0	7566.0	7596.7	7623.7	7666.1	7700.8	7731.6	7785.6	7812.8	7855.2	7901.4
12.5°	7434.8	7477.2	7504.2	7550.4	7596.7	7627.5	7673.9	7724.0	7766.4	7808.8	7862.8
15°	7346.1	7396.2	7427.1	7477.2	7527.4	7569.8	7619.9	7681.7	7712.5	7762.6	7812.8
17.5°	7249.6	7303.8	7342.3	7388.5	7450.3	7496.5	7538.9	7600.5	7639.1	7693.1	7751.0
20°	7149.4	7203.4	7249.6	7295.9	7357.7	7403.9	7454.1	7515.7	7558.1	7612.2	7658.4
22.5°	7029.9	7080.1	7130.1	7184.0	7245.8	7284.4	7342.3	7396.2	7442.4	7492.7	7538.9
25°	6875.7	6937.4	6976.0	7026.0	7076.1	7118.5	7180.2	7234.1	7272.8	7319.1	7361.5
27.5°	6694.4	6740.7	6771.5	6813.9	6864.1	6902.7	6948.9	7002.9	7041.6	7083.9	7114.7
30°	6385.8	6428.4	6455.4	6486.1	6536.3	6571.1	6609.6	6659.6	6686.7	6717.6	6744.5
32.5°	5980.9	6015.6	6031.1	6054.3	6089.0	6123.6	6154.5	6196.9	6208.5	6227.7	6227.7
35°	5394.9	5402.5	5398.7	5406.5	5421.8	5441.1	5468.1	5495.0	5510.5	5510.5	5499.1
37.5°	4708.4	4662.2	4612.0	4573.5	4561.9	4554.2	4569.6	4581.1	4596.7	4604.3	4585.1
40°	3995.1	3891.0	3779.1	3678.8	3609.4	3578.6	3567.0	3574.6	3574.6	3601.7	3601.7
42.5°	3381.9	3219.8	3054.2	2903.7	2803.4	2726.4	2691.6	2691.6	2695.4	2714.8	2726.4
45°	2872.9	2668.4	2475.6	2309.9	2171.0	2070.7	2024.5	2013.0	2009.2	2016.8	2043.7
47.5°	2483.5	2271.4	2070.7	1866.5	1720.0	1619.6	1577.2	1561.7	1546.3	1561.7	1565.7
50°	2178.8	1958.9	1747.0	1542.5	1388.2	1299.5	1245.5	1222.3	1218.5	1218.5	1226.3
52.5°	1901.0	1696.7	1484.8	1276.5	1114.4	1029.6	979.5	967.9	952.5	967.9	967.9
55°	1638.8	1434.5	1226.3	1029.6	894.6	806.0	759.7	744.2	736.5	748.0	748.0
57.5°	1353.6	1180.0	987.3	809.8	675.0	613.2	578.4	559.2	555.2	563.0	555.2
60°	1110.6	964.1	798.3	636.3	532.3	466.7	439.7	431.9	424.1	431.9	431.9
62.5°	879.2	755.9	620.8	497.4	408.7	362.5	331.6	331.6	327.8	327.8	331.6
65°	651.7	555.2	458.8	354.8	285.4	250.7	227.5	227.5	223.6	227.5	223.6
67.5°	474.3	408.7	331.6	258.4	204.5	185.1	169.7	158.1	165.9	158.1	154.2
70°	347.2	293.0	239.0	196.6	158.1	138.9	127.3	123.3	115.7	115.7	115.7
72.5°	231.4	196.6	161.9	127.3	104.1	84.7	80.9	73.3	65.6	69.4	77.1
75°	154.2	131.2	115.7	92.5	69.4	69.4	46.3	46.3	38.6	46.3	34.8
77.5°	108.0	88.8	69.4	57.7	46.3	42.4	30.8	30.8	27.0	27.0	27.0
80°	77.1	65.6	50.1	42.4	30.8	30.8	27.0	23.2	19.2	19.2	23.2
82.5°	46.3	34.8	34.8	30.8	19.2	15.4	11.5	15.4	7.7	7.7	7.7
85°	27.0	23.2	19.2	11.5	7.7	7.7	3.8	0.0	3.8	3.8	0.0
87.5°	15.4	7.7	7.7	3.8	0.0	3.8	3.8	0.0	0.0	0.0	7.7
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°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7943.9	7939.9	7947.7	7947.7	7970.9	7966.8	7978.5	7978.5	7970.9	7974.7	7990.0
5°	7970.9	7982.4	8005.4	8024.8	8059.4	8075.0	8094.2	8113.6	8117.4	8128.9	8140.5
7.5°	7970.9	8009.4	8036.4	8071.0	8117.4	8144.3	8186.7	8221.5	8236.9	8256.1	8279.3
10°	7955.3	7993.9	8044.1	8082.6	8140.5	8182.9	8225.3	8279.3	8302.5	8333.2	8364.1
12.5°	7924.5	7966.8	8020.9	8071.0	8136.6	8175.1	8229.0	8279.3	8314.0	8356.4	8391.1
15°	7878.3	7928.3	7978.5	8028.6	8098.0	8144.3	8194.5	8252.2	8287.0	8333.2	8364.1
17.5°	7805.0	7859.0	7905.3	7951.5	8017.1	8071.0	8117.4	8171.3	8206.1	8244.6	8287.0
20°	7716.3	7766.4	7816.6	7855.2	7920.6	7966.8	8017.1	8067.2	8094.2	8101.9	8167.5
22.5°	7604.5	7639.1	7677.7	7739.4	7777.9	7820.3	7866.7	7912.9	7939.9	7982.4	8005.4
25°	7419.2	7454.1	7496.5	7523.4	7569.8	7604.5	7650.7	7700.8	7716.3	7747.2	7770.2
27.5°	7161.1	7180.2	7199.6	7222.6	7249.6	7269.0	7295.9	7319.1	7334.5	7349.9	7365.3
30°	6752.1	6752.1	6752.1	6736.8	6748.3	6760.0	6763.8	6760.0	6760.0	6756.2	6756.2
32.5°	6212.4	6181.5	6146.8	6116.0	6104.4	6089.0	6081.2	6069.7	6050.5	6038.8	6042.6
35°	5483.5	5414.1	5371.7	5333.2	5302.3	5279.2	5267.6	5256.0	5252.2	5236.9	5221.3
37.5°	4573.5	4523.3	4492.5	4469.4	4442.4	4419.2	4423.0	4426.9	4438.4	4430.8	4434.6
40°	3609.4	3597.8	3609.4	3582.4	3574.6	3582.4	3601.7	3628.8	3644.1	3659.6	3686.5
42.5°	2745.7	2764.8	2792.0	2792.0	2803.4	2819.0	2842.0	2884.6	2907.5	2934.6	2965.5
45°	2066.9	2090.1	2124.9	2136.3	2144.0	2163.3	2190.4	2225.0	2240.4	2263.5	2290.5
47.5°	1592.6	1608.1	1627.2	1646.6	1665.8	1673.5	1700.6	1700.6	1720.0	1735.3	1742.9
50°	1241.7	1257.1	1272.4	1284.1	1291.8	1303.5	1311.1	1322.7	1326.5	1334.2	1338.0
52.5°	971.7	991.1	991.1	998.7	1010.2	1021.9	1018.1	1021.9	1025.7	1025.7	1037.3
55°	759.7	759.7	771.2	771.2	779.0	775.1	779.0	779.0	779.0	779.0	782.8
57.5°	566.8	570.8	582.4	574.6	570.8	578.4	570.8	578.4	574.6	582.4	570.8
60°	435.7	435.7	439.7	439.7	443.5	443.5	443.5	439.7	439.7	435.7	435.7
62.5°	327.8	331.6	335.5	331.6	331.6	331.6	327.8	327.8	324.0	319.9	319.9
65°	219.8	216.0	223.6	216.0	219.8	219.8	216.0	219.8	208.3	212.1	208.3
67.5°	158.1	154.2	150.4	154.2	150.4	146.5	146.5	150.4	154.2	142.7	142.7
70°	104.1	108.0	104.1	108.0	111.9	111.9	108.0	104.1	108.0	100.3	104.1
72.5°	65.6	65.6	65.6	65.6	65.6	69.4	69.4	69.4	61.8	61.8	57.7
75°	30.8	42.4	34.8	30.8	42.4	42.4	38.6	38.6	34.8	34.8	34.8
77.5°	30.8	23.2	23.2	23.2	23.2	23.2	23.2	23.2	19.2	23.2	19.2
80°	15.4	15.4	15.4	11.5	15.4	15.4	19.2	15.4	15.4	11.5	19.2
82.5°	7.7	7.7	7.7	0.0	3.8	7.7	7.7	3.8	7.7	7.7	3.8
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: P248755

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7986.2	7982.4	7986.2	7990.0	7986.2	7982.4	7986.2	7990.0	7974.7	7970.9	7978.5
5°	8155.9	8155.9	8163.6	8167.5	8163.6	8155.9	8155.9	8140.5	8128.9	8117.4	8113.6
7.5°	8302.5	8310.2	8317.8	8321.6	8317.8	8310.2	8302.5	8279.3	8256.1	8236.9	8221.5
10°	8391.1	8402.8	8418.1	8425.8	8418.1	8402.8	8391.1	8364.1	8333.2	8302.5	8279.3
12.5°	8429.7	8441.4	8460.5	8456.7	8460.5	8441.4	8429.7	8391.1	8356.4	8314.0	8279.3
15°	8402.8	8418.1	8437.3	8445.2	8437.3	8418.1	8402.8	8364.1	8333.2	8287.0	8252.2
17.5°	8317.8	8341.0	8352.6	8364.1	8352.6	8341.0	8317.8	8287.0	8244.6	8206.1	8171.3
20°	8202.1	8217.7	8233.1	8236.9	8233.1	8217.7	8202.1	8167.5	8101.9	8094.2	8067.2
22.5°	8036.4	8048.0	8082.6	8071.0	8082.6	8048.0	8036.4	8005.4	7982.4	7939.9	7912.9
25°	7797.2	7808.8	7812.8	7816.6	7812.8	7808.8	7797.2	7770.2	7747.2	7716.3	7700.8
27.5°	7384.7	7384.7	7392.3	7396.2	7392.3	7384.7	7384.7	7365.3	7349.9	7334.5	7319.1
30°	6760.0	6760.0	6760.0	6779.2	6760.0	6760.0	6760.0	6756.2	6756.2	6760.0	6760.0
32.5°	6038.8	6031.1	6023.5	6031.1	6023.5	6031.1	6038.8	6042.6	6038.8	6050.5	6069.7
35°	5221.3	5217.5	5229.0	5213.7	5229.0	5217.5	5221.3	5221.3	5236.9	5252.2	5256.0
37.5°	4438.4	4430.8	4446.2	4430.8	4446.2	4430.8	4438.4	4434.6	4430.8	4438.4	4426.9
40°	3694.4	3702.0	3702.0	3732.9	3702.0	3702.0	3694.4	3686.5	3659.6	3644.1	3628.8
42.5°	2980.9	3004.1	2996.2	3019.4	2996.2	3004.1	2980.9	2965.5	2934.6	2907.5	2884.6
45°	2306.0	2321.5	2321.5	2329.1	2321.5	2321.5	2306.0	2290.5	2263.5	2240.4	2225.0
47.5°	1769.9	1769.9	1769.9	1773.9	1769.9	1769.9	1769.9	1742.9	1735.3	1720.0	1700.6
50°	1345.9	1349.7	1353.6	1357.4	1353.6	1349.7	1345.9	1338.0	1334.2	1326.5	1322.7
52.5°	1033.4	1037.3	1029.6	1037.3	1029.6	1037.3	1033.4	1037.3	1025.7	1025.7	1021.9
55°	782.8	779.0	782.8	786.6	782.8	779.0	782.8	782.8	779.0	779.0	779.0
57.5°	574.6	566.8	566.8	566.8	566.8	566.8	574.6	570.8	582.4	574.6	578.4
60°	428.1	431.9	431.9	435.7	431.9	431.9	428.1	435.7	435.7	439.7	439.7
62.5°	316.2	327.8	319.9	327.8	319.9	327.8	316.2	319.9	319.9	324.0	327.8
65°	204.5	204.5	204.5	208.3	204.5	204.5	204.5	208.3	212.1	208.3	219.8
67.5°	138.9	142.7	150.4	146.5	150.4	142.7	138.9	142.7	142.7	154.2	150.4
70°	111.9	100.3	100.3	111.9	100.3	100.3	111.9	104.1	100.3	108.0	104.1
72.5°	65.6	57.7	65.6	65.6	65.6	57.7	65.6	57.7	61.8	61.8	69.4
75°	34.8	30.8	27.0	38.6	27.0	30.8	34.8	34.8	34.8	34.8	38.6
77.5°	23.2	19.2	27.0	27.0	27.0	19.2	23.2	19.2	23.2	19.2	23.2
80°	11.5	15.4	11.5	19.2	11.5	15.4	11.5	19.2	11.5	15.4	15.4
82.5°	3.8	7.7	7.7	7.7	7.7	7.7	3.8	3.8	7.7	7.7	3.8
85°	0.0	7.7	3.8	3.8	3.8	7.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.0	0.0	3.8	0.0	0.0	3.8	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: P248755

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7978.5	7966.8	7970.9	7947.7	7947.7	7939.9	7943.9	7924.5	7916.8	7909.1	7920.6
5°	8094.2	8075.0	8059.4	8024.8	8005.4	7982.4	7970.9	7939.9	7912.9	7889.7	7885.9
7.5°	8186.7	8144.3	8117.4	8071.0	8036.4	8009.4	7970.9	7928.3	7893.7	7862.8	7839.7
10°	8225.3	8182.9	8140.5	8082.6	8044.1	7993.9	7955.3	7901.4	7855.2	7812.8	7785.6
12.5°	8229.0	8175.1	8136.6	8071.0	8020.9	7966.8	7924.5	7862.8	7808.8	7766.4	7724.0
15°	8194.5	8144.3	8098.0	8028.6	7978.5	7928.3	7878.3	7812.8	7762.6	7712.5	7681.7
17.5°	8117.4	8071.0	8017.1	7951.5	7905.3	7859.0	7805.0	7751.0	7693.1	7639.1	7600.5
20°	8017.1	7966.8	7920.6	7855.2	7816.6	7766.4	7716.3	7658.4	7612.2	7558.1	7515.7
22.5°	7866.7	7820.3	7777.9	7739.4	7677.7	7639.1	7604.5	7538.9	7492.7	7442.4	7396.2
25°	7650.7	7604.5	7569.8	7523.4	7496.5	7454.1	7419.2	7361.5	7319.1	7272.8	7234.1
27.5°	7295.9	7269.0	7249.6	7222.6	7199.6	7180.2	7161.1	7114.7	7083.9	7041.6	7002.9
30°	6763.8	6760.0	6748.3	6736.8	6752.1	6752.1	6752.1	6744.5	6717.6	6686.7	6659.6
32.5°	6081.2	6089.0	6104.4	6116.0	6146.8	6181.5	6212.4	6227.7	6227.7	6208.5	6196.9
35°	5267.6	5279.2	5302.3	5333.2	5371.7	5414.1	5483.5	5499.1	5510.5	5510.5	5495.0
37.5°	4423.0	4419.2	4442.4	4469.4	4492.5	4523.3	4573.5	4585.1	4604.3	4596.7	4581.1
40°	3601.7	3582.4	3574.6	3582.4	3609.4	3597.8	3609.4	3601.7	3601.7	3574.6	3574.6
42.5°	2842.0	2819.0	2803.4	2792.0	2792.0	2764.8	2745.7	2726.4	2714.8	2695.4	2691.6
45°	2190.4	2163.3	2144.0	2136.3	2124.9	2090.1	2066.9	2043.7	2016.8	2009.2	2013.0
47.5°	1700.6	1673.5	1665.8	1646.6	1627.2	1608.1	1592.6	1565.7	1561.7	1546.3	1561.7
50°	1311.1	1303.5	1291.8	1284.1	1272.4	1257.1	1241.7	1226.3	1218.5	1218.5	1222.3
52.5°	1018.1	1021.9	1010.2	998.7	991.1	991.1	971.7	967.9	967.9	952.5	967.9
55°	779.0	775.1	779.0	771.2	771.2	759.7	759.7	748.0	748.0	736.5	744.2
57.5°	570.8	578.4	570.8	574.6	582.4	570.8	566.8	555.2	563.0	555.2	559.2
60°	443.5	443.5	443.5	439.7	439.7	435.7	435.7	431.9	431.9	424.1	431.9
62.5°	327.8	331.6	331.6	331.6	335.5	331.6	327.8	331.6	327.8	327.8	331.6
65°	216.0	219.8	219.8	216.0	223.6	216.0	219.8	223.6	227.5	223.6	227.5
67.5°	146.5	146.5	150.4	154.2	150.4	154.2	158.1	154.2	158.1	165.9	158.1
70°	108.0	111.9	111.9	108.0	104.1	108.0	104.1	115.7	115.7	115.7	123.3
72.5°	69.4	69.4	65.6	65.6	65.6	65.6	65.6	77.1	69.4	65.6	73.3
75°	38.6	42.4	42.4	30.8	34.8	42.4	30.8	34.8	46.3	38.6	46.3
77.5°	23.2	23.2	23.2	23.2	23.2	23.2	30.8	27.0	27.0	27.0	30.8
80°	19.2	15.4	15.4	11.5	15.4	15.4	15.4	23.2	19.2	19.2	23.2
82.5°	7.7	7.7	3.8	0.0	7.7	7.7	7.7	7.7	7.7	7.7	15.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	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: P248755

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7889.7	7889.7	7885.9	7878.3	7862.8	7862.8	7859.0	7847.3	7839.7	7835.8	7835.8
5°	7851.1	7835.8	7820.3	7777.9	7777.9	7770.2	7747.2	7731.6	7724.0	7704.6	7697.0
7.5°	7816.6	7770.2	7743.2	7716.3	7681.7	7666.1	7639.1	7627.5	7600.5	7581.3	7569.8
10°	7731.6	7700.8	7666.1	7623.7	7596.7	7566.0	7535.0	7511.9	7477.2	7457.9	7442.4
12.5°	7673.9	7627.5	7596.7	7550.4	7504.2	7477.2	7434.8	7407.9	7373.0	7334.5	7311.4
15°	7619.9	7569.8	7527.4	7477.2	7427.1	7396.2	7346.1	7315.3	7265.2	7226.6	7199.6
17.5°	7538.9	7496.5	7450.3	7388.5	7342.3	7303.8	7249.6	7211.2	7164.9	7114.7	7087.7
20°	7454.1	7403.9	7357.7	7295.9	7249.6	7203.4	7149.4	7107.0	7052.9	7006.7	6976.0
22.5°	7342.3	7284.4	7245.8	7184.0	7130.1	7080.1	7029.9	6979.8	6929.6	6891.0	6856.3
25°	7180.2	7118.5	7076.1	7026.0	6976.0	6937.4	6875.7	6844.8	6794.7	6760.0	6725.2
27.5°	6948.9	6902.7	6864.1	6813.9	6771.5	6740.7	6694.4	6663.6	6621.1	6590.2	6563.2
30°	6609.6	6571.1	6536.3	6486.1	6455.4	6428.4	6385.8	6358.9	6328.0	6293.3	6285.7
32.5°	6154.5	6123.6	6089.0	6054.3	6031.1	6015.6	5980.9	5965.5	5934.7	5915.4	5896.1
35°	5468.1	5441.1	5421.8	5406.5	5398.7	5402.5	5394.9	5410.3	5417.9	5414.1	5417.9
37.5°	4569.6	4554.2	4561.9	4573.5	4612.0	4662.2	4708.4	4777.8	4824.1	4870.5	4912.9
40°	3567.0	3578.6	3609.4	3678.8	3779.1	3891.0	3995.1	4126.2	4257.3	4349.8	4434.6
42.5°	2691.6	2726.4	2803.4	2903.7	3054.2	3219.8	3381.9	3574.6	3732.9	3887.1	3995.1
45°	2024.5	2070.7	2171.0	2309.9	2475.6	2668.4	2872.9	3088.8	3277.8	3435.9	3555.5
47.5°	1577.2	1619.6	1720.0	1866.5	2070.7	2271.4	2483.5	2707.1	2903.7	3058.0	3162.1
50°	1245.5	1299.5	1388.2	1542.5	1747.0	1958.9	2178.8	2398.5	2583.7	2714.8	2807.3
52.5°	979.5	1029.6	1114.4	1276.5	1484.8	1696.7	1901.0	2117.1	2279.0	2406.2	2468.0
55°	759.7	806.0	894.6	1029.6	1226.3	1434.5	1638.8	1824.1	1974.4	2066.9	2124.9
57.5°	578.4	613.2	675.0	809.8	987.3	1180.0	1353.6	1538.7	1654.4	1720.0	1758.4
60°	439.7	466.7	532.3	636.3	798.3	964.1	1110.6	1249.5	1342.1	1396.0	1434.5
62.5°	331.6	362.5	408.7	497.4	620.8	755.9	879.2	983.3	1060.5	1095.2	1122.2
65°	227.5	250.7	285.4	354.8	458.8	555.2	651.7	728.9	779.0	817.5	833.0
67.5°	169.7	185.1	204.5	258.4	331.6	408.7	474.3	528.2	582.4	597.7	624.7
70°	127.3	138.9	158.1	196.6	239.0	293.0	347.2	377.9	416.5	443.5	451.2
72.5°	80.9	84.7	104.1	127.3	161.9	196.6	231.4	258.4	281.6	297.0	304.6
75°	46.3	69.4	69.4	92.5	115.7	131.2	154.2	173.5	185.1	196.6	196.6
77.5°	30.8	42.4	46.3	57.7	69.4	88.8	108.0	119.5	131.2	135.0	135.0
80°	27.0	30.8	30.8	42.4	50.1	65.6	77.1	80.9	88.8	92.5	100.3
82.5°	11.5	15.4	19.2	30.8	34.8	34.8	46.3	50.1	57.7	61.8	61.8
85°	3.8	7.7	7.7	11.5	19.2	23.2	27.0	30.8	34.8	34.8	38.6
87.5°	3.8	3.8	0.0	3.8	7.7	7.7	15.4	15.4	15.4	23.2	23.2
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: P248755

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6	7897.6
2.5°	7828.2	7832.0	7816.6	7812.8	7805.0	7808.8	7816.6
5°	7685.5	7689.3	7673.9	7658.4	7658.4	7654.5	7658.4
7.5°	7550.4	7554.3	7531.2	7523.4	7508.0	7511.9	7511.9
10°	7415.4	7415.4	7380.9	7376.9	7365.3	7361.5	7361.5
12.5°	7284.4	7272.8	7245.8	7230.4	7238.2	7215.0	7215.0
15°	7168.7	7149.4	7114.7	7103.1	7083.9	7076.1	7076.1
17.5°	7049.2	7033.7	7002.9	6979.8	6956.6	6952.8	6956.6
20°	6933.4	6918.0	6879.5	6864.1	6844.8	6844.8	6837.1
22.5°	6817.7	6802.3	6767.7	6756.2	6729.1	6729.1	6733.0
25°	6698.2	6686.7	6648.0	6640.5	6636.7	6621.1	6628.8
27.5°	6536.3	6528.5	6497.8	6486.1	6470.7	6466.9	6474.6
30°	6239.3	6227.7	6204.7	6193.1	6166.2	6170.0	6177.6
32.5°	5869.2	5853.7	5822.8	5811.3	5788.2	5780.4	5784.2
35°	5406.5	5394.9	5367.9	5367.9	5344.7	5337.0	5344.7
37.5°	4936.0	4947.4	4936.0	4947.4	4936.0	4932.1	4936.0
40°	4492.5	4534.9	4542.5	4585.1	4569.6	4592.7	4588.9
42.5°	4068.2	4137.6	4164.7	4199.4	4191.8	4207.1	4218.8
45°	3640.2	3698.2	3725.1	3748.3	3752.1	3759.8	3763.6
47.5°	3235.3	3281.6	3285.4	3312.4	3308.6	3308.6	3320.2
50°	2857.5	2888.4	2895.9	2915.3	2899.9	2892.2	2895.9
52.5°	2506.6	2537.4	2529.6	2537.4	2518.2	2510.4	2514.2
55°	2147.8	2163.3	2163.3	2163.3	2140.2	2140.2	2140.2
57.5°	1781.5	1785.5	1777.7	1781.5	1777.7	1754.6	1750.8
60°	1446.1	1446.1	1442.2	1446.1	1434.5	1423.0	1423.0
62.5°	1129.9	1137.6	1152.9	1137.6	1129.9	1137.6	1126.0
65°	844.6	859.9	856.0	863.7	859.9	859.9	852.2
67.5°	636.3	640.1	643.9	647.9	647.9	647.9	647.9
70°	466.7	478.2	474.3	474.3	474.3	474.3	497.4
72.5°	312.4	327.8	324.0	331.6	331.6	339.3	331.6
75°	212.1	227.5	219.8	231.4	227.5	219.8	239.0
77.5°	142.7	150.4	154.2	158.1	154.2	150.4	154.2
80°	100.3	108.0	104.1	108.0	108.0	108.0	111.9
82.5°	61.8	73.3	69.4	73.3	69.4	73.3	73.3
85°	42.4	46.3	38.6	46.3	42.4	42.4	50.1
87.5°	27.0	23.2	23.2	27.0	23.2	27.0	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)