

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 ER8B1509730 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 ER8B1509730 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: 11867.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

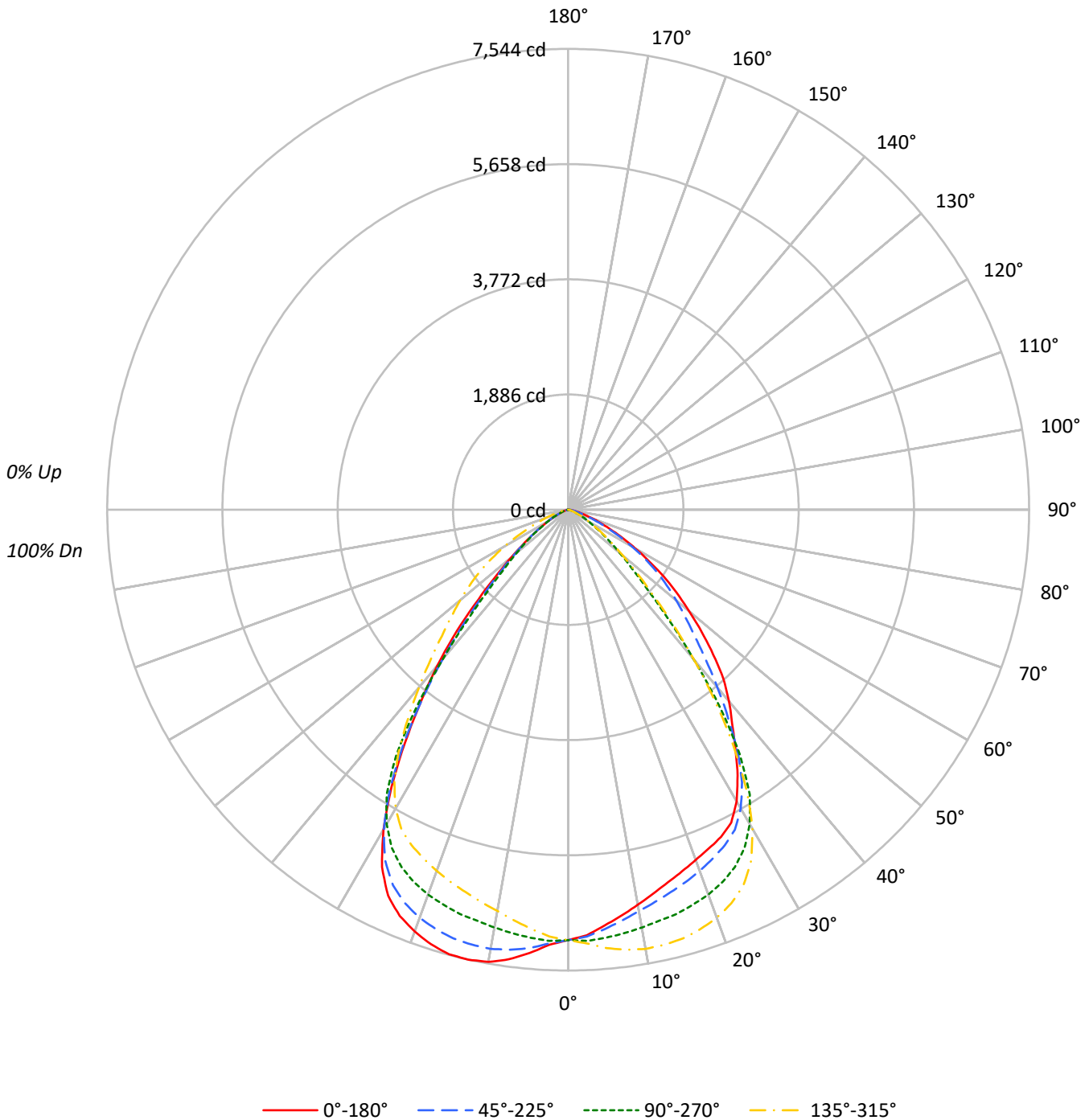
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	670.6	5.7
10°-20°	1941.8	16.4
20°-30°	2940.3	24.8
30°-40°	2946.9	24.8
40°-50°	1850.5	15.6
50°-60°	986.1	8.3
60°-70°	405.5	3.4
70°-80°	107.1	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°	5552.7	46.8
0°-40°	8499.6	71.6
0°-60°	11336.2	95.5
0°-90°	11867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11867.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7045	7045	7045	7045	7045	
5°	6832	7035	7286	7035	6832	644
15°	6312	6852	7534	6852	6312	1785
25°	5913	6453	6973	6453	5913	2712
35°	4768	4902	4651	4902	4768	2987
45°	3357	1796	2078	1796	3357	2582
55°	1909	664	702	664	1909	1702
65°	760	203	186	203	760	789
75°	213	41	34	41	213	242
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°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	6972.9	6965.9	6962.5	6969.5	6972.9	6986.6	6983.2	6990.0	6990.0	6993.5	7000.3
5°	6831.8	6828.3	6831.8	6831.8	6845.6	6859.3	6855.9	6866.2	6873.0	6890.3	6897.1
7.5°	6701.1	6701.1	6697.6	6711.3	6718.3	6738.9	6735.4	6752.7	6763.0	6780.1	6804.2
10°	6566.9	6566.9	6570.3	6580.6	6584.2	6615.0	6615.0	6639.1	6652.9	6670.1	6701.1
12.5°	6436.2	6436.2	6456.9	6450.0	6463.7	6487.8	6498.1	6522.2	6542.8	6577.2	6608.3
15°	6312.3	6312.3	6319.3	6336.4	6346.7	6377.7	6394.9	6422.5	6446.6	6481.0	6525.7
17.5°	6205.7	6202.3	6205.7	6226.4	6247.0	6274.5	6288.3	6322.7	6346.7	6391.5	6432.8
20°	6099.1	6106.0	6106.0	6123.2	6136.9	6171.3	6185.0	6223.0	6250.4	6291.6	6339.9
22.5°	6006.2	6002.8	6002.8	6026.9	6037.2	6068.1	6081.8	6116.2	6147.2	6181.6	6226.4
25°	5913.3	5906.4	5920.3	5923.7	5930.4	5964.9	5975.2	5999.3	6030.3	6061.3	6106.0
27.5°	5775.7	5768.9	5772.3	5786.0	5796.4	5823.8	5830.8	5854.8	5878.9	5906.4	5944.3
30°	5510.8	5504.0	5500.6	5524.6	5535.0	5555.5	5565.8	5607.2	5614.0	5645.0	5672.5
32.5°	5159.9	5156.5	5163.4	5184.0	5194.3	5221.9	5235.7	5259.7	5276.9	5294.1	5321.6
35°	4767.8	4760.9	4767.8	4788.5	4788.5	4812.6	4822.9	4833.1	4829.7	4833.1	4826.3
37.5°	4403.2	4399.7	4403.2	4413.4	4403.2	4413.4	4403.2	4382.6	4344.8	4303.4	4262.1
40°	4093.6	4097.0	4076.4	4090.2	4052.2	4045.4	4007.6	3955.9	3880.3	3797.8	3680.8
42.5°	3763.4	3753.0	3739.3	3746.1	3715.2	3691.0	3629.1	3563.9	3467.5	3330.0	3188.8
45°	3357.4	3354.0	3347.1	3343.7	3323.0	3299.0	3247.3	3171.7	3065.0	2924.0	2755.4
47.5°	2961.8	2951.5	2951.5	2954.9	2930.8	2927.4	2886.1	2820.8	2727.9	2590.3	2414.9
50°	2583.3	2580.0	2586.9	2600.6	2583.3	2576.6	2549.1	2504.3	2421.8	2304.8	2139.6
52.5°	2242.8	2239.4	2246.4	2263.5	2256.6	2263.5	2236.0	2201.6	2146.5	2033.0	1888.6
55°	1909.2	1909.2	1909.2	1929.8	1929.8	1929.8	1916.0	1895.5	1843.8	1761.3	1627.2
57.5°	1561.8	1565.2	1585.8	1589.2	1585.8	1592.8	1589.2	1568.6	1534.3	1475.8	1372.6
60°	1269.4	1269.4	1279.7	1290.0	1286.5	1290.0	1290.0	1279.7	1245.3	1197.2	1114.6
62.5°	1004.5	1014.8	1007.9	1014.8	1028.5	1014.8	1007.9	1001.1	977.0	946.0	877.2
65°	760.2	767.1	767.1	770.5	763.6	767.1	753.4	743.1	729.3	694.9	650.2
67.5°	578.0	578.0	578.0	578.0	574.4	571.0	567.6	557.3	533.2	519.5	471.2
70°	443.7	423.1	423.1	423.1	423.1	426.6	416.3	402.5	395.6	371.5	337.1
72.5°	295.8	302.7	295.8	295.8	289.0	292.4	278.7	271.7	264.9	251.2	230.5
75°	213.2	196.1	202.9	206.4	196.1	202.9	189.2	175.4	175.4	165.1	154.8
77.5°	137.6	134.2	137.6	141.0	137.6	134.2	127.3	120.4	120.4	117.0	106.6
80°	99.8	96.3	96.3	96.3	92.9	96.3	89.5	89.5	82.5	79.2	72.2
82.5°	65.4	65.4	61.9	65.4	61.9	65.4	55.1	55.1	55.1	51.5	44.7
85°	44.7	37.8	37.8	41.3	34.4	41.3	37.8	34.4	31.0	31.0	27.5
87.5°	20.7	24.1	20.7	24.1	20.7	20.7	24.1	20.7	20.7	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°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	7010.7	7014.1	7014.1	7027.9	7034.7	7038.1	7038.1	7065.7	7055.4	7062.3	7069.1
5°	6911.0	6931.5	6938.4	6938.4	6976.2	6990.0	7003.7	7034.7	7038.1	7058.8	7082.9
7.5°	6814.5	6838.6	6852.5	6883.4	6907.4	6931.5	6972.9	6993.5	7014.1	7041.7	7072.5
10°	6721.7	6749.3	6776.7	6800.8	6838.6	6869.6	6897.1	6945.2	6969.5	7007.3	7048.5
12.5°	6632.3	6670.1	6694.2	6735.4	6776.7	6804.2	6845.6	6890.3	6928.1	6965.9	7014.1
15°	6553.2	6597.9	6625.4	6670.1	6714.9	6752.7	6797.4	6852.5	6880.0	6924.7	6969.5
17.5°	6467.1	6515.4	6549.8	6591.0	6646.1	6687.3	6725.2	6780.1	6814.5	6862.7	6914.4
20°	6377.7	6425.9	6467.1	6508.4	6563.5	6604.7	6649.5	6704.5	6742.3	6790.5	6831.8
22.5°	6271.1	6315.9	6360.5	6408.6	6463.7	6498.1	6549.8	6597.9	6639.1	6683.9	6725.2
25°	6133.5	6188.6	6223.0	6267.6	6312.3	6350.1	6405.2	6453.3	6487.8	6529.1	6566.9
27.5°	5971.8	6013.1	6040.6	6078.4	6123.2	6157.6	6198.8	6247.0	6281.5	6319.3	6346.7
30°	5696.5	5734.5	5758.6	5786.0	5830.8	5861.8	5896.2	5940.8	5964.9	5992.5	6016.5
32.5°	5335.3	5366.3	5380.1	5400.8	5431.8	5462.6	5490.2	5528.0	5538.4	5555.5	5555.5
35°	4812.6	4819.4	4816.0	4822.9	4836.6	4853.8	4877.9	4901.9	4915.7	4915.7	4905.5
37.5°	4200.2	4159.0	4114.2	4079.8	4069.5	4062.6	4076.4	4086.6	4100.5	4107.3	4090.2
40°	3563.9	3471.0	3371.2	3281.7	3219.8	3192.3	3182.0	3188.8	3188.8	3212.9	3212.9
42.5°	3016.9	2872.3	2724.5	2590.3	2500.8	2432.1	2401.1	2401.1	2404.5	2421.8	2432.1
45°	2562.8	2380.4	2208.4	2060.6	1936.7	1847.2	1806.0	1795.7	1792.3	1799.1	1823.1
47.5°	2215.4	2026.2	1847.2	1665.0	1534.3	1444.8	1407.0	1393.1	1379.4	1393.1	1396.7
50°	1943.6	1747.5	1558.4	1376.0	1238.4	1159.2	1111.1	1090.4	1087.0	1087.0	1093.9
52.5°	1695.8	1513.6	1324.5	1138.7	994.1	918.5	873.8	863.4	849.7	863.4	863.4
55°	1461.9	1279.7	1093.9	918.5	798.0	719.0	677.7	663.9	657.0	667.3	667.3
57.5°	1207.5	1052.6	880.7	722.4	602.1	547.0	516.0	498.8	495.3	502.2	495.3
60°	990.7	860.0	712.1	567.6	474.8	416.3	392.2	385.3	378.3	385.3	385.3
62.5°	784.3	674.3	553.8	443.7	364.6	323.4	295.8	295.8	292.4	292.4	295.8
65°	581.4	495.3	409.3	316.5	254.6	223.6	202.9	202.9	199.5	202.9	199.5
67.5°	423.1	364.6	295.8	230.5	182.4	165.1	151.4	141.0	148.0	141.0	137.6
70°	309.7	261.4	213.2	175.4	141.0	123.9	113.6	110.0	103.2	103.2	103.2
72.5°	206.4	175.4	144.4	113.6	92.9	75.6	72.2	65.4	58.5	61.9	68.8
75°	137.6	117.0	103.2	82.5	61.9	61.9	41.3	41.3	34.4	41.3	31.0
77.5°	96.3	79.2	61.9	51.5	41.3	37.8	27.5	27.5	24.1	24.1	24.1
80°	68.8	58.5	44.7	37.8	27.5	27.5	24.1	20.7	17.1	17.1	20.7
82.5°	41.3	31.0	31.0	27.5	17.1	13.7	10.3	13.7	6.9	6.9	6.9
85°	24.1	20.7	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°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	7086.4	7082.9	7089.8	7089.8	7110.5	7106.9	7117.3	7117.3	7110.5	7113.9	7127.6
5°	7110.5	7120.8	7141.3	7158.6	7189.5	7203.4	7220.5	7237.8	7241.2	7251.5	7261.8
7.5°	7110.5	7144.9	7169.0	7199.8	7241.2	7265.2	7303.0	7334.1	7347.8	7364.9	7385.6
10°	7096.6	7131.0	7175.8	7210.2	7261.8	7299.6	7337.5	7385.6	7406.3	7433.7	7461.3
12.5°	7069.1	7106.9	7155.1	7199.8	7258.3	7292.7	7340.8	7385.6	7416.6	7454.4	7485.4
15°	7027.9	7072.5	7117.3	7162.0	7223.9	7265.2	7310.0	7361.5	7392.5	7433.7	7461.3
17.5°	6962.5	7010.7	7052.0	7093.2	7151.7	7199.8	7241.2	7289.3	7320.3	7354.7	7392.5
20°	6883.4	6928.1	6972.9	7007.3	7065.7	7106.9	7151.7	7196.4	7220.5	7227.4	7285.9
22.5°	6783.7	6814.5	6849.0	6904.0	6938.4	6976.2	7017.6	7058.8	7082.9	7120.8	7141.3
25°	6618.4	6649.5	6687.3	6711.3	6752.7	6783.7	6824.9	6869.6	6883.4	6911.0	6931.5
27.5°	6388.1	6405.2	6422.5	6443.0	6467.1	6484.4	6508.4	6529.1	6542.8	6556.6	6570.3
30°	6023.3	6023.3	6023.3	6009.6	6019.9	6030.3	6033.7	6030.3	6030.3	6026.9	6026.9
32.5°	5541.8	5514.3	5483.3	5455.8	5445.5	5431.8	5424.8	5414.5	5397.4	5387.0	5390.4
35°	4891.6	4829.7	4791.9	4757.5	4730.0	4709.4	4699.0	4688.7	4685.3	4671.6	4657.7
37.5°	4079.8	4035.1	4007.6	3987.0	3962.9	3942.2	3945.6	3949.1	3959.3	3952.5	3955.9
40°	3219.8	3209.5	3219.8	3195.7	3188.8	3195.7	3212.9	3237.1	3250.8	3264.6	3288.6
42.5°	2449.3	2466.4	2490.6	2490.6	2500.8	2514.7	2535.2	2573.2	2593.7	2617.8	2645.4
45°	1843.8	1864.5	1895.5	1905.7	1912.6	1929.8	1954.0	1984.8	1998.6	2019.2	2043.3
47.5°	1420.7	1434.5	1451.6	1468.9	1486.0	1492.9	1517.0	1517.0	1534.3	1548.0	1554.8
50°	1107.7	1121.4	1135.1	1145.5	1152.4	1162.8	1169.6	1179.9	1183.3	1190.2	1193.6
52.5°	866.8	884.1	884.1	890.9	901.2	911.6	908.2	911.6	915.0	915.0	925.3
55°	677.7	677.7	688.0	688.0	694.9	691.4	694.9	694.9	694.9	694.9	698.3
57.5°	505.6	509.2	519.5	512.6	509.2	516.0	509.2	516.0	512.6	519.5	509.2
60°	388.7	388.7	392.2	392.2	395.6	395.6	395.6	392.2	392.2	388.7	388.7
62.5°	292.4	295.8	299.3	295.8	295.8	295.8	292.4	292.4	289.0	285.4	285.4
65°	196.1	192.7	199.5	192.7	196.1	196.1	192.7	196.1	185.8	189.2	185.8
67.5°	141.0	137.6	134.2	137.6	134.2	130.7	130.7	134.2	137.6	127.3	127.3
70°	92.9	96.3	92.9	96.3	99.8	99.8	96.3	92.9	96.3	89.5	92.9
72.5°	58.5	58.5	58.5	58.5	58.5	61.9	61.9	61.9	55.1	55.1	51.5
75°	27.5	37.8	31.0	27.5	37.8	37.8	34.4	34.4	31.0	31.0	31.0
77.5°	27.5	20.7	20.7	20.7	20.7	20.7	20.7	20.7	17.1	20.7	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: P248755

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	7124.2	7120.8	7124.2	7127.6	7124.2	7120.8	7124.2	7127.6	7113.9	7110.5	7117.3
5°	7275.6	7275.6	7282.4	7285.9	7282.4	7275.6	7275.6	7261.8	7251.5	7241.2	7237.8
7.5°	7406.3	7413.2	7420.0	7423.4	7420.0	7413.2	7406.3	7385.6	7364.9	7347.8	7334.1
10°	7485.4	7495.8	7509.5	7516.3	7509.5	7495.8	7485.4	7461.3	7433.7	7406.3	7385.6
12.5°	7519.8	7530.2	7547.3	7543.9	7547.3	7530.2	7519.8	7485.4	7454.4	7416.6	7385.6
15°	7495.8	7509.5	7526.6	7533.6	7526.6	7509.5	7495.8	7461.3	7433.7	7392.5	7361.5
17.5°	7420.0	7440.7	7451.0	7461.3	7451.0	7440.7	7420.0	7392.5	7354.7	7320.3	7289.3
20°	7316.8	7330.7	7344.4	7347.8	7344.4	7330.7	7316.8	7285.9	7227.4	7220.5	7196.4
22.5°	7169.0	7179.3	7210.2	7199.8	7210.2	7179.3	7169.0	7141.3	7120.8	7082.9	7058.8
25°	6955.6	6965.9	6969.5	6972.9	6969.5	6965.9	6955.6	6931.5	6911.0	6883.4	6869.6
27.5°	6587.6	6587.6	6594.4	6597.9	6594.4	6587.6	6587.6	6570.3	6556.6	6542.8	6529.1
30°	6030.3	6030.3	6030.3	6047.5	6030.3	6030.3	6030.3	6026.9	6026.9	6030.3	6030.3
32.5°	5387.0	5380.1	5373.3	5380.1	5373.3	5380.1	5387.0	5390.4	5387.0	5397.4	5414.5
35°	4657.7	4654.3	4664.6	4650.9	4664.6	4654.3	4657.7	4657.7	4671.6	4685.3	4688.7
37.5°	3959.3	3952.5	3966.3	3952.5	3966.3	3952.5	3959.3	3955.9	3952.5	3959.3	3949.1
40°	3295.6	3302.4	3302.4	3330.0	3302.4	3302.4	3295.6	3288.6	3264.6	3250.8	3237.1
42.5°	2659.1	2679.8	2672.8	2693.5	2672.8	2679.8	2659.1	2645.4	2617.8	2593.7	2573.2
45°	2057.1	2070.9	2070.9	2077.7	2070.9	2070.9	2057.1	2043.3	2019.2	1998.6	1984.8
47.5°	1578.9	1578.9	1578.9	1582.4	1578.9	1578.9	1578.9	1554.8	1548.0	1534.3	1517.0
50°	1200.6	1204.0	1207.5	1210.9	1207.5	1204.0	1200.6	1193.6	1190.2	1183.3	1179.9
52.5°	921.9	925.3	918.5	925.3	918.5	925.3	921.9	925.3	915.0	915.0	911.6
55°	698.3	694.9	698.3	701.7	698.3	694.9	698.3	698.3	694.9	694.9	694.9
57.5°	512.6	505.6	505.6	505.6	505.6	505.6	512.6	509.2	519.5	512.6	516.0
60°	381.9	385.3	385.3	388.7	385.3	385.3	381.9	388.7	388.7	392.2	392.2
62.5°	282.1	292.4	285.4	292.4	285.4	292.4	282.1	285.4	285.4	289.0	292.4
65°	182.4	182.4	182.4	185.8	182.4	182.4	182.4	185.8	189.2	185.8	196.1
67.5°	123.9	127.3	134.2	130.7	134.2	127.3	123.9	127.3	127.3	137.6	134.2
70°	99.8	89.5	89.5	99.8	89.5	89.5	99.8	92.9	89.5	96.3	92.9
72.5°	58.5	51.5	58.5	58.5	58.5	51.5	58.5	51.5	55.1	55.1	61.9
75°	31.0	27.5	24.1	34.4	24.1	27.5	31.0	31.0	31.0	31.0	34.4
77.5°	20.7	17.1	24.1	24.1	24.1	17.1	20.7	17.1	20.7	17.1	20.7
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: P248755

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	7117.3	7106.9	7110.5	7089.8	7089.8	7082.9	7086.4	7069.1	7062.3	7055.4	7065.7
5°	7220.5	7203.4	7189.5	7158.6	7141.3	7120.8	7110.5	7082.9	7058.8	7038.1	7034.7
7.5°	7303.0	7265.2	7241.2	7199.8	7169.0	7144.9	7110.5	7072.5	7041.7	7014.1	6993.5
10°	7337.5	7299.6	7261.8	7210.2	7175.8	7131.0	7096.6	7048.5	7007.3	6969.5	6945.2
12.5°	7340.8	7292.7	7258.3	7199.8	7155.1	7106.9	7069.1	7014.1	6965.9	6928.1	6890.3
15°	7310.0	7265.2	7223.9	7162.0	7117.3	7072.5	7027.9	6969.5	6924.7	6880.0	6852.5
17.5°	7241.2	7199.8	7151.7	7093.2	7052.0	7010.7	6962.5	6914.4	6862.7	6814.5	6780.1
20°	7151.7	7106.9	7065.7	7007.3	6972.9	6928.1	6883.4	6831.8	6790.5	6742.3	6704.5
22.5°	7017.6	6976.2	6938.4	6904.0	6849.0	6814.5	6783.7	6725.2	6683.9	6639.1	6597.9
25°	6824.9	6783.7	6752.7	6711.3	6687.3	6649.5	6618.4	6566.9	6529.1	6487.8	6453.3
27.5°	6508.4	6484.4	6467.1	6443.0	6422.5	6405.2	6388.1	6346.7	6319.3	6281.5	6247.0
30°	6033.7	6030.3	6019.9	6009.6	6023.3	6023.3	6023.3	6016.5	5992.5	5964.9	5940.8
32.5°	5424.8	5431.8	5445.5	5455.8	5483.3	5514.3	5541.8	5555.5	5555.5	5538.4	5528.0
35°	4699.0	4709.4	4730.0	4757.5	4791.9	4829.7	4891.6	4905.5	4915.7	4915.7	4901.9
37.5°	3945.6	3942.2	3962.9	3987.0	4007.6	4035.1	4079.8	4090.2	4107.3	4100.5	4086.6
40°	3212.9	3195.7	3188.8	3195.7	3219.8	3209.5	3219.8	3212.9	3212.9	3188.8	3188.8
42.5°	2535.2	2514.7	2500.8	2490.6	2490.6	2466.4	2449.3	2432.1	2421.8	2404.5	2401.1
45°	1954.0	1929.8	1912.6	1905.7	1895.5	1864.5	1843.8	1823.1	1799.1	1792.3	1795.7
47.5°	1517.0	1492.9	1486.0	1468.9	1451.6	1434.5	1420.7	1396.7	1393.1	1379.4	1393.1
50°	1169.6	1162.8	1152.4	1145.5	1135.1	1121.4	1107.7	1093.9	1087.0	1087.0	1090.4
52.5°	908.2	911.6	901.2	890.9	884.1	884.1	866.8	863.4	863.4	849.7	863.4
55°	694.9	691.4	694.9	688.0	688.0	677.7	677.7	667.3	667.3	657.0	663.9
57.5°	509.2	516.0	509.2	512.6	519.5	509.2	505.6	495.3	502.2	495.3	498.8
60°	395.6	395.6	395.6	392.2	392.2	388.7	388.7	385.3	385.3	378.3	385.3
62.5°	292.4	295.8	295.8	295.8	299.3	295.8	292.4	295.8	292.4	292.4	295.8
65°	192.7	196.1	196.1	192.7	199.5	192.7	196.1	199.5	202.9	199.5	202.9
67.5°	130.7	130.7	134.2	137.6	134.2	137.6	141.0	137.6	141.0	148.0	141.0
70°	96.3	99.8	99.8	96.3	92.9	96.3	92.9	103.2	103.2	103.2	110.0
72.5°	61.9	61.9	58.5	58.5	58.5	58.5	58.5	68.8	61.9	58.5	65.4
75°	34.4	37.8	37.8	27.5	31.0	37.8	27.5	31.0	41.3	34.4	41.3
77.5°	20.7	20.7	20.7	20.7	20.7	20.7	27.5	24.1	24.1	24.1	27.5
80°	17.1	13.7	13.7	10.3	13.7	13.7	13.7	20.7	17.1	17.1	20.7
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: P248755

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	7038.1	7038.1	7034.7	7027.9	7014.1	7014.1	7010.7	7000.3	6993.5	6990.0	6990.0
5°	7003.7	6990.0	6976.2	6938.4	6938.4	6931.5	6911.0	6897.1	6890.3	6873.0	6866.2
7.5°	6972.9	6931.5	6907.4	6883.4	6852.5	6838.6	6814.5	6804.2	6780.1	6763.0	6752.7
10°	6897.1	6869.6	6838.6	6800.8	6776.7	6749.3	6721.7	6701.1	6670.1	6652.9	6639.1
12.5°	6845.6	6804.2	6776.7	6735.4	6694.2	6670.1	6632.3	6608.3	6577.2	6542.8	6522.2
15°	6797.4	6752.7	6714.9	6670.1	6625.4	6597.9	6553.2	6525.7	6481.0	6446.6	6422.5
17.5°	6725.2	6687.3	6646.1	6591.0	6549.8	6515.4	6467.1	6432.8	6391.5	6346.7	6322.7
20°	6649.5	6604.7	6563.5	6508.4	6467.1	6425.9	6377.7	6339.9	6291.6	6250.4	6223.0
22.5°	6549.8	6498.1	6463.7	6408.6	6360.5	6315.9	6271.1	6226.4	6181.6	6147.2	6116.2
25°	6405.2	6350.1	6312.3	6267.6	6223.0	6188.6	6133.5	6106.0	6061.3	6030.3	5999.3
27.5°	6198.8	6157.6	6123.2	6078.4	6040.6	6013.1	5971.8	5944.3	5906.4	5878.9	5854.8
30°	5896.2	5861.8	5830.8	5786.0	5758.6	5734.5	5696.5	5672.5	5645.0	5614.0	5607.2
32.5°	5490.2	5462.6	5431.8	5400.8	5380.1	5366.3	5335.3	5321.6	5294.1	5276.9	5259.7
35°	4877.9	4853.8	4836.6	4822.9	4816.0	4819.4	4812.6	4826.3	4833.1	4829.7	4833.1
37.5°	4076.4	4062.6	4069.5	4079.8	4114.2	4159.0	4200.2	4262.1	4303.4	4344.8	4382.6
40°	3182.0	3192.3	3219.8	3281.7	3371.2	3471.0	3563.9	3680.8	3797.8	3880.3	3955.9
42.5°	2401.1	2432.1	2500.8	2590.3	2724.5	2872.3	3016.9	3188.8	3330.0	3467.5	3563.9
45°	1806.0	1847.2	1936.7	2060.6	2208.4	2380.4	2562.8	2755.4	2924.0	3065.0	3171.7
47.5°	1407.0	1444.8	1534.3	1665.0	1847.2	2026.2	2215.4	2414.9	2590.3	2727.9	2820.8
50°	1111.1	1159.2	1238.4	1376.0	1558.4	1747.5	1943.6	2139.6	2304.8	2421.8	2504.3
52.5°	873.8	918.5	994.1	1138.7	1324.5	1513.6	1695.8	1888.6	2033.0	2146.5	2201.6
55°	677.7	719.0	798.0	918.5	1093.9	1279.7	1461.9	1627.2	1761.3	1843.8	1895.5
57.5°	516.0	547.0	602.1	722.4	880.7	1052.6	1207.5	1372.6	1475.8	1534.3	1568.6
60°	392.2	416.3	474.8	567.6	712.1	860.0	990.7	1114.6	1197.2	1245.3	1279.7
62.5°	295.8	323.4	364.6	443.7	553.8	674.3	784.3	877.2	946.0	977.0	1001.1
65°	202.9	223.6	254.6	316.5	409.3	495.3	581.4	650.2	694.9	729.3	743.1
67.5°	151.4	165.1	182.4	230.5	295.8	364.6	423.1	471.2	519.5	533.2	557.3
70°	113.6	123.9	141.0	175.4	213.2	261.4	309.7	337.1	371.5	395.6	402.5
72.5°	72.2	75.6	92.9	113.6	144.4	175.4	206.4	230.5	251.2	264.9	271.7
75°	41.3	61.9	61.9	82.5	103.2	117.0	137.6	154.8	165.1	175.4	175.4
77.5°	27.5	37.8	41.3	51.5	61.9	79.2	96.3	106.6	117.0	120.4	120.4
80°	24.1	27.5	27.5	37.8	44.7	58.5	68.8	72.2	79.2	82.5	89.5
82.5°	10.3	13.7	17.1	27.5	31.0	31.0	41.3	44.7	51.5	55.1	55.1
85°	3.4	6.9	6.9	10.3	17.1	20.7	24.1	27.5	31.0	31.0	34.4
87.5°	3.4	3.4	0.0	3.4	6.9	6.9	13.7	13.7	13.7	20.7	20.7
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 ER8B1509730 8LBSWOWMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1	7045.1
2.5°	6983.2	6986.6	6972.9	6969.5	6962.5	6965.9	6972.9
5°	6855.9	6859.3	6845.6	6831.8	6831.8	6828.3	6831.8
7.5°	6735.4	6738.9	6718.3	6711.3	6697.6	6701.1	6701.1
10°	6615.0	6615.0	6584.2	6580.6	6570.3	6566.9	6566.9
12.5°	6498.1	6487.8	6463.7	6450.0	6456.9	6436.2	6436.2
15°	6394.9	6377.7	6346.7	6336.4	6319.3	6312.3	6312.3
17.5°	6288.3	6274.5	6247.0	6226.4	6205.7	6202.3	6205.7
20°	6185.0	6171.3	6136.9	6123.2	6106.0	6106.0	6099.1
22.5°	6081.8	6068.1	6037.2	6026.9	6002.8	6002.8	6006.2
25°	5975.2	5964.9	5930.4	5923.7	5920.3	5906.4	5913.3
27.5°	5830.8	5823.8	5796.4	5786.0	5772.3	5768.9	5775.7
30°	5565.8	5555.5	5535.0	5524.6	5500.6	5504.0	5510.8
32.5°	5235.7	5221.9	5194.3	5184.0	5163.4	5156.5	5159.9
35°	4822.9	4812.6	4788.5	4788.5	4767.8	4760.9	4767.8
37.5°	4403.2	4413.4	4403.2	4413.4	4403.2	4399.7	4403.2
40°	4007.6	4045.4	4052.2	4090.2	4076.4	4097.0	4093.6
42.5°	3629.1	3691.0	3715.2	3746.1	3739.3	3753.0	3763.4
45°	3247.3	3299.0	3323.0	3343.7	3347.1	3354.0	3357.4
47.5°	2886.1	2927.4	2930.8	2954.9	2951.5	2951.5	2961.8
50°	2549.1	2576.6	2583.3	2600.6	2586.9	2580.0	2583.3
52.5°	2236.0	2263.5	2256.6	2263.5	2246.4	2239.4	2242.8
55°	1916.0	1929.8	1929.8	1929.8	1909.2	1909.2	1909.2
57.5°	1589.2	1592.8	1585.8	1589.2	1585.8	1565.2	1561.8
60°	1290.0	1290.0	1286.5	1290.0	1279.7	1269.4	1269.4
62.5°	1007.9	1014.8	1028.5	1014.8	1007.9	1014.8	1004.5
65°	753.4	767.1	763.6	770.5	767.1	767.1	760.2
67.5°	567.6	571.0	574.4	578.0	578.0	578.0	578.0
70°	416.3	426.6	423.1	423.1	423.1	423.1	443.7
72.5°	278.7	292.4	289.0	295.8	295.8	302.7	295.8
75°	189.2	202.9	196.1	206.4	202.9	196.1	213.2
77.5°	127.3	134.2	137.6	141.0	137.6	134.2	137.6
80°	89.5	96.3	92.9	96.3	96.3	96.3	99.8
82.5°	55.1	65.4	61.9	65.4	61.9	65.4	65.4
85°	37.8	41.3	34.4	41.3	37.8	37.8	44.7
87.5°	24.1	20.7	20.7	24.1	20.7	24.1	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)