

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: P248746

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248746
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 ER8B1509727 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11217.0 lumens
Efficiency: N/A
Efficacy: 70.8 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

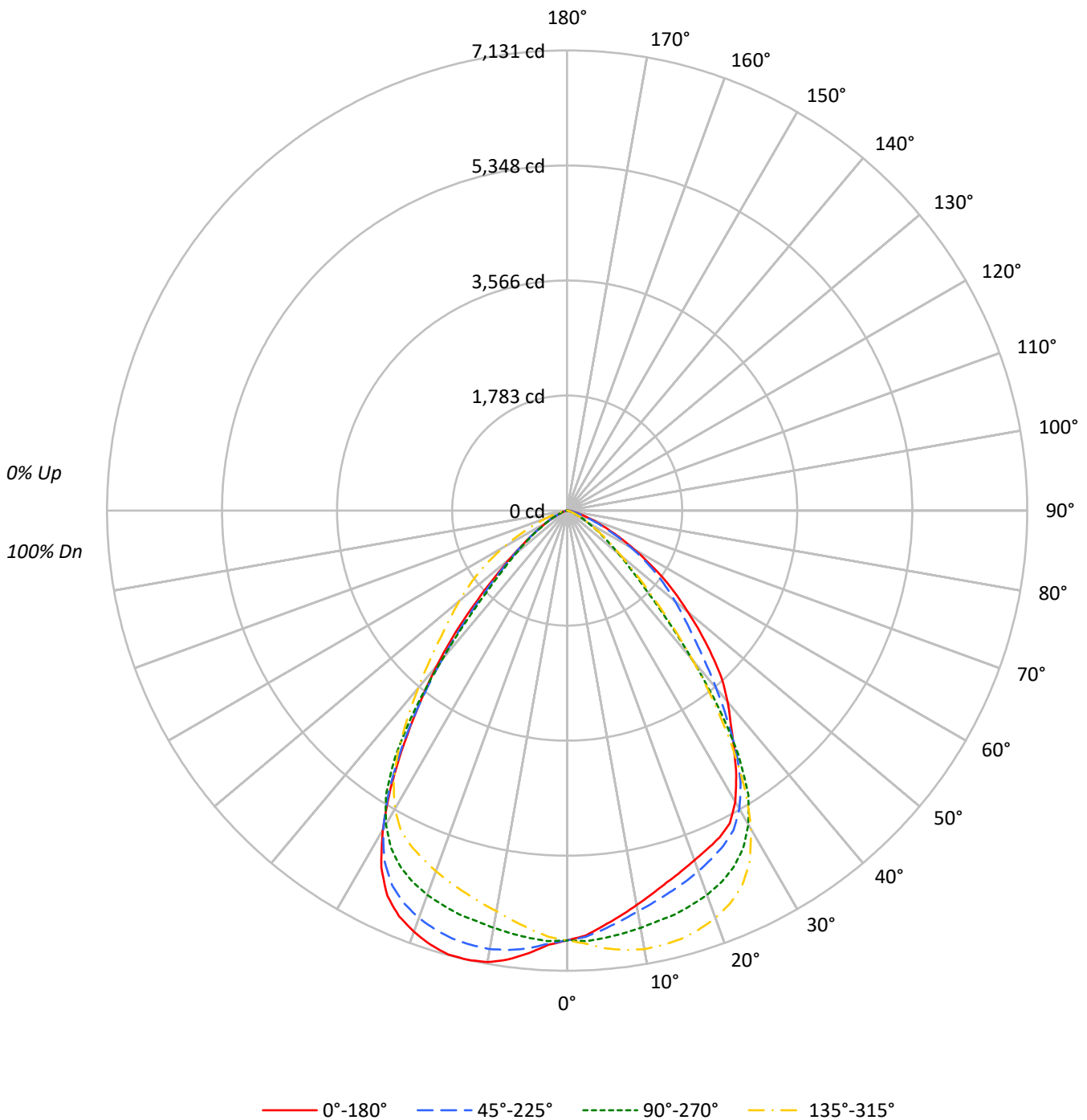
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	633.8	5.7
10°-20°	1835.4	16.4
20°-30°	2779.3	24.8
30°-40°	2785.5	24.8
40°-50°	1749.2	15.6
50°-60°	932.1	8.3
60°-70°	383.3	3.4
70°-80°	101.3	0.9
80°-90°	17.1	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°	5248.5	46.8
0°-40°	8034.0	71.6
0°-60°	10715.3	95.5
0°-90°	11217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11217.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6659	6659	6659	6659	6659	
5°	6458	6649	6887	6649	6458	609
15°	5967	6477	7121	6477	5967	1688
25°	5589	6100	6591	6100	5589	2564
35°	4507	4633	4396	4633	4507	2823
45°	3174	1697	1964	1697	3174	2441
55°	1805	628	663	628	1805	1609
65°	719	192	176	192	719	745
75°	202	39	32	39	202	228
85°	42	0	3	0	42	46
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°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6590.9	6584.4	6581.2	6587.7	6590.9	6603.9	6600.7	6607.1	6607.1	6610.5	6616.9
5°	6457.6	6454.3	6457.6	6457.6	6470.6	6483.6	6480.4	6490.1	6496.6	6512.9	6519.3
7.5°	6334.1	6334.1	6330.7	6343.7	6350.3	6369.8	6366.5	6382.8	6392.6	6408.8	6431.5
10°	6207.2	6207.2	6210.4	6220.2	6223.5	6252.7	6252.7	6275.5	6288.5	6304.8	6334.1
12.5°	6083.7	6083.7	6103.2	6096.7	6109.6	6132.4	6142.2	6164.9	6184.5	6217.0	6246.3
15°	5966.6	5966.6	5973.1	5989.3	5999.1	6028.4	6044.6	6070.7	6093.5	6126.0	6168.3
17.5°	5865.8	5862.6	5865.8	5885.3	5904.9	5930.8	5943.8	5976.3	5999.1	6041.4	6080.5
20°	5765.0	5771.6	5771.6	5787.8	5800.7	5833.3	5846.3	5882.1	5908.1	5947.0	5992.7
22.5°	5677.2	5674.0	5674.0	5696.8	5706.5	5735.7	5748.7	5781.2	5810.5	5843.0	5885.3
25°	5589.4	5582.9	5596.0	5599.2	5605.6	5638.1	5647.9	5670.7	5700.0	5729.3	5771.6
27.5°	5459.3	5452.9	5456.1	5469.1	5478.9	5504.8	5511.4	5534.1	5556.9	5582.9	5618.7
30°	5208.9	5202.5	5199.3	5222.0	5231.8	5251.2	5261.0	5300.1	5306.5	5335.8	5361.8
32.5°	4877.3	4874.1	4880.6	4900.0	4909.8	4935.9	4948.9	4971.6	4987.8	5004.2	5030.1
35°	4506.7	4500.1	4506.7	4526.2	4526.2	4549.0	4558.7	4568.4	4565.2	4568.4	4562.0
37.5°	4162.1	4158.7	4162.1	4171.7	4162.1	4171.7	4162.1	4142.5	4106.8	4067.7	4028.6
40°	3869.4	3872.6	3853.2	3866.1	3830.3	3823.8	3788.1	3739.3	3667.8	3589.8	3479.2
42.5°	3557.2	3547.5	3534.5	3540.9	3511.7	3488.9	3430.4	3368.7	3277.5	3147.6	3014.1
45°	3173.5	3170.3	3163.8	3160.6	3141.0	3118.3	3069.4	2997.9	2897.2	2763.9	2604.5
47.5°	2799.6	2789.8	2789.8	2793.0	2770.3	2767.1	2728.0	2666.3	2578.5	2448.4	2282.6
50°	2441.9	2438.6	2445.2	2458.2	2441.9	2435.4	2409.5	2367.2	2289.1	2178.6	2022.4
52.5°	2120.0	2116.8	2123.3	2139.5	2133.0	2139.5	2113.5	2081.0	2029.0	1921.6	1785.1
55°	1804.7	1804.7	1804.7	1824.1	1824.1	1824.1	1811.1	1791.7	1742.8	1664.8	1538.1
57.5°	1476.2	1479.4	1499.0	1502.2	1499.0	1505.5	1502.2	1482.6	1450.3	1395.0	1297.4
60°	1199.8	1199.8	1209.6	1219.4	1216.0	1219.4	1219.4	1209.6	1177.1	1131.6	1053.6
62.5°	949.4	959.2	952.6	959.2	972.2	959.2	952.6	946.2	923.5	894.2	829.1
65°	718.6	725.1	725.1	728.3	721.8	725.1	712.1	702.4	689.4	656.9	614.6
67.5°	546.3	546.3	546.3	546.3	543.0	539.8	536.6	526.8	504.0	491.0	445.4
70°	419.4	399.9	399.9	399.9	399.9	403.2	393.5	380.5	373.9	351.2	318.7
72.5°	279.6	286.1	279.6	279.6	273.2	276.4	263.4	256.8	250.4	237.4	217.9
75°	201.6	185.4	191.8	195.1	185.4	191.8	178.8	165.8	165.8	156.1	146.3
77.5°	130.1	126.9	130.1	133.3	130.1	126.9	120.3	113.8	113.8	110.5	100.8
80°	94.4	91.0	91.0	91.0	87.8	91.0	84.6	84.6	78.0	74.8	68.3
82.5°	61.8	61.8	58.5	61.8	58.5	61.8	52.1	52.1	52.1	48.7	42.3
85°	42.3	35.7	35.7	39.1	32.5	39.1	35.7	32.5	29.3	29.3	26.0
87.5°	19.5	22.8	19.5	22.8	19.5	19.5	22.8	19.5	19.5	13.0	13.0
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°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6626.7	6629.9	6629.9	6643.0	6649.4	6652.6	6652.6	6678.7	6668.9	6675.5	6681.9
5°	6532.4	6551.8	6558.4	6558.4	6594.1	6607.1	6620.1	6649.4	6652.6	6672.2	6694.9
7.5°	6441.3	6464.0	6477.2	6506.3	6529.1	6551.8	6590.9	6610.5	6629.9	6656.0	6685.1
10°	6353.5	6379.6	6405.6	6428.3	6464.0	6493.4	6519.3	6564.8	6587.7	6623.4	6662.4
12.5°	6269.0	6304.8	6327.5	6366.5	6405.6	6431.5	6470.6	6512.9	6548.6	6584.4	6629.9
15°	6194.2	6236.5	6262.5	6304.8	6347.1	6382.8	6425.1	6477.2	6503.1	6545.4	6587.7
17.5°	6112.9	6158.5	6191.0	6230.0	6282.0	6321.0	6356.8	6408.8	6441.3	6486.8	6535.6
20°	6028.4	6073.9	6112.9	6151.9	6204.0	6242.9	6285.2	6337.3	6373.0	6418.5	6457.6
22.5°	5927.6	5969.9	6012.1	6057.6	6109.6	6142.2	6191.0	6236.5	6275.5	6317.8	6356.8
25°	5797.5	5849.6	5882.1	5924.3	5966.6	6002.3	6054.4	6099.9	6132.4	6171.5	6207.2
27.5°	5644.7	5683.8	5709.7	5745.5	5787.8	5820.3	5859.2	5904.9	5937.4	5973.1	5999.1
30°	5384.5	5420.4	5443.1	5469.1	5511.4	5540.7	5573.2	5615.4	5638.1	5664.2	5687.0
32.5°	5043.1	5072.4	5085.4	5104.9	5134.2	5163.4	5189.5	5225.3	5235.0	5251.2	5251.2
35°	4549.0	4555.4	4552.2	4558.7	4571.7	4587.9	4610.7	4633.4	4646.4	4646.4	4636.8
37.5°	3970.1	3931.2	3888.9	3856.4	3846.6	3840.0	3853.2	3862.8	3875.9	3882.3	3866.1
40°	3368.7	3280.9	3186.5	3101.9	3043.4	3017.5	3007.7	3014.1	3014.1	3036.9	3036.9
42.5°	2851.7	2715.0	2575.3	2448.4	2363.8	2298.9	2269.6	2269.6	2272.8	2289.1	2298.9
45°	2422.4	2250.1	2087.5	1947.7	1830.6	1746.0	1707.1	1697.3	1694.1	1700.5	1723.3
47.5°	2094.0	1915.2	1746.0	1573.8	1450.3	1365.7	1329.9	1316.8	1303.8	1316.8	1320.2
50°	1837.2	1651.8	1473.0	1300.6	1170.5	1095.7	1050.2	1030.7	1027.5	1027.5	1034.0
52.5°	1603.0	1430.7	1251.9	1076.3	939.7	868.2	825.9	816.1	803.2	816.1	816.1
55°	1381.9	1209.6	1034.0	868.2	754.3	679.6	640.5	627.6	621.0	630.8	630.8
57.5°	1141.4	994.9	832.5	682.8	569.1	517.0	487.7	471.5	468.2	474.7	468.2
60°	936.5	812.9	673.1	536.6	448.8	393.5	370.7	364.2	357.6	364.2	364.2
62.5°	741.3	637.3	523.4	419.4	344.6	305.7	279.6	279.6	276.4	276.4	279.6
65°	549.5	468.2	386.9	299.1	240.6	211.3	191.8	191.8	188.6	191.8	188.6
67.5°	399.9	344.6	279.6	217.9	172.4	156.1	143.1	133.3	139.9	133.3	130.1
70°	292.7	247.1	201.6	165.8	133.3	117.1	107.3	104.0	97.6	97.6	97.6
72.5°	195.1	165.8	136.5	107.3	87.8	71.5	68.3	61.8	55.3	58.5	65.0
75°	130.1	110.5	97.6	78.0	58.5	58.5	39.1	39.1	32.5	39.1	29.3
77.5°	91.0	74.8	58.5	48.7	39.1	35.7	26.0	26.0	22.8	22.8	22.8
80°	65.0	55.3	42.3	35.7	26.0	26.0	22.8	19.5	16.2	16.2	19.5
82.5°	39.1	29.3	29.3	26.0	16.2	13.0	9.8	13.0	6.6	6.6	6.6
85°	22.8	19.5	16.2	9.8	6.6	6.6	3.2	0.0	3.2	3.2	0.0
87.5°	13.0	6.6	6.6	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.6
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°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6698.3	6694.9	6701.5	6701.5	6721.0	6717.7	6727.4	6727.4	6721.0	6724.2	6737.2
5°	6721.0	6730.8	6750.2	6766.5	6795.7	6808.8	6825.0	6841.3	6844.5	6854.3	6864.1
7.5°	6721.0	6753.5	6776.3	6805.5	6844.5	6867.3	6903.0	6932.3	6945.3	6961.5	6981.1
10°	6707.9	6740.4	6782.7	6815.2	6864.1	6899.8	6935.6	6981.1	7000.6	7026.6	7052.7
12.5°	6681.9	6717.7	6763.2	6805.5	6860.7	6893.3	6938.8	6981.1	7010.4	7046.1	7075.4
15°	6643.0	6685.1	6727.4	6769.7	6828.2	6867.3	6909.6	6958.3	6987.6	7026.6	7052.7
17.5°	6581.2	6626.7	6665.7	6704.7	6760.0	6805.5	6844.5	6890.0	6919.4	6951.9	6987.6
20°	6506.3	6548.6	6590.9	6623.4	6678.7	6717.7	6760.0	6802.2	6825.0	6831.6	6886.8
22.5°	6412.1	6441.3	6473.8	6525.9	6558.4	6594.1	6633.2	6672.2	6694.9	6730.8	6750.2
25°	6255.9	6285.2	6321.0	6343.7	6382.8	6412.1	6451.1	6493.4	6506.3	6532.4	6551.8
27.5°	6038.2	6054.4	6070.7	6090.1	6112.9	6129.2	6151.9	6171.5	6184.5	6197.4	6210.4
30°	5693.4	5693.4	5693.4	5680.4	5690.2	5700.0	5703.2	5700.0	5700.0	5696.8	5696.8
32.5°	5238.2	5212.3	5183.0	5157.0	5147.2	5134.2	5127.7	5117.9	5101.7	5092.0	5095.2
35°	4623.7	4565.2	4529.4	4496.9	4470.9	4451.4	4441.6	4431.9	4428.7	4415.7	4402.6
37.5°	3856.4	3814.1	3788.1	3768.6	3745.8	3726.3	3729.5	3732.8	3742.5	3736.1	3739.3
40°	3043.4	3033.7	3043.4	3020.7	3014.1	3020.7	3036.9	3059.8	3072.8	3085.7	3108.5
42.5°	2315.1	2331.3	2354.2	2354.2	2363.8	2376.9	2396.3	2432.2	2451.6	2474.4	2500.5
45°	1742.8	1762.4	1791.7	1801.3	1807.9	1824.1	1846.9	1876.1	1889.1	1908.6	1931.4
47.5°	1342.9	1355.9	1372.1	1388.4	1404.6	1411.2	1433.9	1433.9	1450.3	1463.2	1469.7
50°	1047.0	1060.0	1073.0	1082.7	1089.3	1099.1	1105.5	1115.3	1118.5	1125.0	1128.2
52.5°	819.3	835.7	835.7	842.1	851.9	861.6	858.4	861.6	864.9	864.9	874.6
55°	640.5	640.5	650.3	650.3	656.9	653.5	656.9	656.9	656.9	656.9	660.1
57.5°	477.9	481.3	491.0	484.5	481.3	487.7	481.3	487.7	484.5	491.0	481.3
60°	367.4	367.4	370.7	370.7	373.9	373.9	373.9	370.7	370.7	367.4	367.4
62.5°	276.4	279.6	282.9	279.6	279.6	279.6	276.4	276.4	273.2	269.8	269.8
65°	185.4	182.2	188.6	182.2	185.4	185.4	182.2	185.4	175.6	178.8	175.6
67.5°	133.3	130.1	126.9	130.1	126.9	123.5	123.5	126.9	130.1	120.3	120.3
70°	87.8	91.0	87.8	91.0	94.4	94.4	91.0	87.8	91.0	84.6	87.8
72.5°	55.3	55.3	55.3	55.3	55.3	58.5	58.5	58.5	52.1	52.1	48.7
75°	26.0	35.7	29.3	26.0	35.7	35.7	32.5	32.5	29.3	29.3	29.3
77.5°	26.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	16.2	19.5	16.2
80°	13.0	13.0	13.0	9.8	13.0	13.0	16.2	13.0	13.0	9.8	16.2
82.5°	6.6	6.6	6.6	0.0	3.2	6.6	6.6	3.2	6.6	6.6	3.2
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: P248746

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6734.0	6730.8	6734.0	6737.2	6734.0	6730.8	6734.0	6737.2	6724.2	6721.0	6727.4
5°	6877.1	6877.1	6883.5	6886.8	6883.5	6877.1	6877.1	6864.1	6854.3	6844.5	6841.3
7.5°	7000.6	7007.2	7013.6	7016.8	7013.6	7007.2	7000.6	6981.1	6961.5	6945.3	6932.3
10°	7075.4	7085.2	7098.2	7104.6	7098.2	7085.2	7075.4	7052.7	7026.6	7000.6	6981.1
12.5°	7107.9	7117.7	7133.9	7130.7	7133.9	7117.7	7107.9	7075.4	7046.1	7010.4	6981.1
15°	7085.2	7098.2	7114.4	7120.9	7114.4	7098.2	7085.2	7052.7	7026.6	6987.6	6958.3
17.5°	7013.6	7033.1	7042.9	7052.7	7042.9	7033.1	7013.6	6987.6	6951.9	6919.4	6890.0
20°	6916.0	6929.1	6942.1	6945.3	6942.1	6929.1	6916.0	6886.8	6831.6	6825.0	6802.2
22.5°	6776.3	6786.1	6815.2	6805.5	6815.2	6786.1	6776.3	6750.2	6730.8	6694.9	6672.2
25°	6574.6	6584.4	6587.7	6590.9	6587.7	6584.4	6574.6	6551.8	6532.4	6506.3	6493.4
27.5°	6226.8	6226.8	6233.2	6236.5	6233.2	6226.8	6226.8	6210.4	6197.4	6184.5	6171.5
30°	5700.0	5700.0	5700.0	5716.3	5700.0	5700.0	5700.0	5696.8	5696.8	5700.0	5700.0
32.5°	5092.0	5085.4	5079.0	5085.4	5079.0	5085.4	5092.0	5095.2	5092.0	5101.7	5117.9
35°	4402.6	4399.3	4409.1	4396.1	4409.1	4399.3	4402.6	4402.6	4415.7	4428.7	4431.9
37.5°	3742.5	3736.1	3749.0	3736.1	3749.0	3736.1	3742.5	3739.3	3736.1	3742.5	3732.8
40°	3115.0	3121.5	3121.5	3147.6	3121.5	3121.5	3115.0	3108.5	3085.7	3072.8	3059.8
42.5°	2513.5	2533.0	2526.4	2546.0	2526.4	2533.0	2513.5	2500.5	2474.4	2451.6	2432.2
45°	1944.4	1957.5	1957.5	1963.9	1957.5	1957.5	1944.4	1931.4	1908.6	1889.1	1876.1
47.5°	1492.4	1492.4	1492.4	1495.8	1492.4	1492.4	1492.4	1469.7	1463.2	1450.3	1433.9
50°	1134.8	1138.0	1141.4	1144.6	1141.4	1138.0	1134.8	1128.2	1125.0	1118.5	1115.3
52.5°	871.4	874.6	868.2	874.6	868.2	874.6	871.4	874.6	864.9	864.9	861.6
55°	660.1	656.9	660.1	663.3	660.1	656.9	660.1	660.1	656.9	656.9	656.9
57.5°	484.5	477.9	477.9	477.9	477.9	477.9	484.5	481.3	491.0	484.5	487.7
60°	361.0	364.2	364.2	367.4	364.2	364.2	361.0	367.4	367.4	370.7	370.7
62.5°	266.6	276.4	269.8	276.4	269.8	276.4	266.6	269.8	269.8	273.2	276.4
65°	172.4	172.4	172.4	175.6	172.4	172.4	172.4	175.6	178.8	175.6	185.4
67.5°	117.1	120.3	126.9	123.5	126.9	120.3	117.1	120.3	120.3	130.1	126.9
70°	94.4	84.6	84.6	94.4	84.6	84.6	94.4	87.8	84.6	91.0	87.8
72.5°	55.3	48.7	55.3	55.3	55.3	48.7	55.3	48.7	52.1	52.1	58.5
75°	29.3	26.0	22.8	32.5	22.8	26.0	29.3	29.3	29.3	29.3	32.5
77.5°	19.5	16.2	22.8	22.8	22.8	16.2	19.5	16.2	19.5	16.2	19.5
80°	9.8	13.0	9.8	16.2	9.8	13.0	9.8	16.2	9.8	13.0	13.0
82.5°	3.2	6.6	6.6	6.6	6.6	6.6	3.2	3.2	6.6	6.6	3.2
85°	0.0	6.6	3.2	3.2	3.2	6.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	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: P248746

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6727.4	6717.7	6721.0	6701.5	6701.5	6694.9	6698.3	6681.9	6675.5	6668.9	6678.7
5°	6825.0	6808.8	6795.7	6766.5	6750.2	6730.8	6721.0	6694.9	6672.2	6652.6	6649.4
7.5°	6903.0	6867.3	6844.5	6805.5	6776.3	6753.5	6721.0	6685.1	6656.0	6629.9	6610.5
10°	6935.6	6899.8	6864.1	6815.2	6782.7	6740.4	6707.9	6662.4	6623.4	6587.7	6564.8
12.5°	6938.8	6893.3	6860.7	6805.5	6763.2	6717.7	6681.9	6629.9	6584.4	6548.6	6512.9
15°	6909.6	6867.3	6828.2	6769.7	6727.4	6685.1	6643.0	6587.7	6545.4	6503.1	6477.2
17.5°	6844.5	6805.5	6760.0	6704.7	6665.7	6626.7	6581.2	6535.6	6486.8	6441.3	6408.8
20°	6760.0	6717.7	6678.7	6623.4	6590.9	6548.6	6506.3	6457.6	6418.5	6373.0	6337.3
22.5°	6633.2	6594.1	6558.4	6525.9	6473.8	6441.3	6412.1	6356.8	6317.8	6275.5	6236.5
25°	6451.1	6412.1	6382.8	6343.7	6321.0	6285.2	6255.9	6207.2	6171.5	6132.4	6099.9
27.5°	6151.9	6129.2	6112.9	6090.1	6070.7	6054.4	6038.2	5999.1	5973.1	5937.4	5904.9
30°	5703.2	5700.0	5690.2	5680.4	5693.4	5693.4	5693.4	5687.0	5664.2	5638.1	5615.4
32.5°	5127.7	5134.2	5147.2	5157.0	5183.0	5212.3	5238.2	5251.2	5251.2	5235.0	5225.3
35°	4441.6	4451.4	4470.9	4496.9	4529.4	4565.2	4623.7	4636.8	4646.4	4646.4	4633.4
37.5°	3729.5	3726.3	3745.8	3768.6	3788.1	3814.1	3856.4	3866.1	3882.3	3875.9	3862.8
40°	3036.9	3020.7	3014.1	3020.7	3043.4	3033.7	3043.4	3036.9	3036.9	3014.1	3014.1
42.5°	2396.3	2376.9	2363.8	2354.2	2354.2	2331.3	2315.1	2298.9	2289.1	2272.8	2269.6
45°	1846.9	1824.1	1807.9	1801.3	1791.7	1762.4	1742.8	1723.3	1700.5	1694.1	1697.3
47.5°	1433.9	1411.2	1404.6	1388.4	1372.1	1355.9	1342.9	1320.2	1316.8	1303.8	1316.8
50°	1105.5	1099.1	1089.3	1082.7	1073.0	1060.0	1047.0	1034.0	1027.5	1027.5	1030.7
52.5°	858.4	861.6	851.9	842.1	835.7	835.7	819.3	816.1	816.1	803.2	816.1
55°	656.9	653.5	656.9	650.3	650.3	640.5	640.5	630.8	630.8	621.0	627.6
57.5°	481.3	487.7	481.3	484.5	491.0	481.3	477.9	468.2	474.7	468.2	471.5
60°	373.9	373.9	373.9	370.7	370.7	367.4	367.4	364.2	364.2	357.6	364.2
62.5°	276.4	279.6	279.6	279.6	282.9	279.6	276.4	279.6	276.4	276.4	279.6
65°	182.2	185.4	185.4	182.2	188.6	182.2	185.4	188.6	191.8	188.6	191.8
67.5°	123.5	123.5	126.9	130.1	126.9	130.1	133.3	130.1	133.3	139.9	133.3
70°	91.0	94.4	94.4	91.0	87.8	91.0	87.8	97.6	97.6	97.6	104.0
72.5°	58.5	58.5	55.3	55.3	55.3	55.3	55.3	65.0	58.5	55.3	61.8
75°	32.5	35.7	35.7	26.0	29.3	35.7	26.0	29.3	39.1	32.5	39.1
77.5°	19.5	19.5	19.5	19.5	19.5	19.5	26.0	22.8	22.8	22.8	26.0
80°	16.2	13.0	13.0	9.8	13.0	13.0	13.0	19.5	16.2	16.2	19.5
82.5°	6.6	6.6	3.2	0.0	6.6	6.6	6.6	6.6	6.6	6.6	13.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	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: P248746

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6652.6	6652.6	6649.4	6643.0	6629.9	6629.9	6626.7	6616.9	6610.5	6607.1	6607.1
5°	6620.1	6607.1	6594.1	6558.4	6558.4	6551.8	6532.4	6519.3	6512.9	6496.6	6490.1
7.5°	6590.9	6551.8	6529.1	6506.3	6477.2	6464.0	6441.3	6431.5	6408.8	6392.6	6382.8
10°	6519.3	6493.4	6464.0	6428.3	6405.6	6379.6	6353.5	6334.1	6304.8	6288.5	6275.5
12.5°	6470.6	6431.5	6405.6	6366.5	6327.5	6304.8	6269.0	6246.3	6217.0	6184.5	6164.9
15°	6425.1	6382.8	6347.1	6304.8	6262.5	6236.5	6194.2	6168.3	6126.0	6093.5	6070.7
17.5°	6356.8	6321.0	6282.0	6230.0	6191.0	6158.5	6112.9	6080.5	6041.4	5999.1	5976.3
20°	6285.2	6242.9	6204.0	6151.9	6112.9	6073.9	6028.4	5992.7	5947.0	5908.1	5882.1
22.5°	6191.0	6142.2	6109.6	6057.6	6012.1	5969.9	5927.6	5885.3	5843.0	5810.5	5781.2
25°	6054.4	6002.3	5966.6	5924.3	5882.1	5849.6	5797.5	5771.6	5729.3	5700.0	5670.7
27.5°	5859.2	5820.3	5787.8	5745.5	5709.7	5683.8	5644.7	5618.7	5582.9	5556.9	5534.1
30°	5573.2	5540.7	5511.4	5469.1	5443.1	5420.4	5384.5	5361.8	5335.8	5306.5	5300.1
32.5°	5189.5	5163.4	5134.2	5104.9	5085.4	5072.4	5043.1	5030.1	5004.2	4987.8	4971.6
35°	4610.7	4587.9	4571.7	4558.7	4552.2	4555.4	4549.0	4562.0	4568.4	4565.2	4568.4
37.5°	3853.2	3840.0	3846.6	3856.4	3888.9	3931.2	3970.1	4028.6	4067.7	4106.8	4142.5
40°	3007.7	3017.5	3043.4	3101.9	3186.5	3280.9	3368.7	3479.2	3589.8	3667.8	3739.3
42.5°	2269.6	2298.9	2363.8	2448.4	2575.3	2715.0	2851.7	3014.1	3147.6	3277.5	3368.7
45°	1707.1	1746.0	1830.6	1947.7	2087.5	2250.1	2422.4	2604.5	2763.9	2897.2	2997.9
47.5°	1329.9	1365.7	1450.3	1573.8	1746.0	1915.2	2094.0	2282.6	2448.4	2578.5	2666.3
50°	1050.2	1095.7	1170.5	1300.6	1473.0	1651.8	1837.2	2022.4	2178.6	2289.1	2367.2
52.5°	825.9	868.2	939.7	1076.3	1251.9	1430.7	1603.0	1785.1	1921.6	2029.0	2081.0
55°	640.5	679.6	754.3	868.2	1034.0	1209.6	1381.9	1538.1	1664.8	1742.8	1791.7
57.5°	487.7	517.0	569.1	682.8	832.5	994.9	1141.4	1297.4	1395.0	1450.3	1482.6
60°	370.7	393.5	448.8	536.6	673.1	812.9	936.5	1053.6	1131.6	1177.1	1209.6
62.5°	279.6	305.7	344.6	419.4	523.4	637.3	741.3	829.1	894.2	923.5	946.2
65°	191.8	211.3	240.6	299.1	386.9	468.2	549.5	614.6	656.9	689.4	702.4
67.5°	143.1	156.1	172.4	217.9	279.6	344.6	399.9	445.4	491.0	504.0	526.8
70°	107.3	117.1	133.3	165.8	201.6	247.1	292.7	318.7	351.2	373.9	380.5
72.5°	68.3	71.5	87.8	107.3	136.5	165.8	195.1	217.9	237.4	250.4	256.8
75°	39.1	58.5	58.5	78.0	97.6	110.5	130.1	146.3	156.1	165.8	165.8
77.5°	26.0	35.7	39.1	48.7	58.5	74.8	91.0	100.8	110.5	113.8	113.8
80°	22.8	26.0	26.0	35.7	42.3	55.3	65.0	68.3	74.8	78.0	84.6
82.5°	9.8	13.0	16.2	26.0	29.3	29.3	39.1	42.3	48.7	52.1	52.1
85°	3.2	6.6	6.6	9.8	16.2	19.5	22.8	26.0	29.3	29.3	32.5
87.5°	3.2	3.2	0.0	3.2	6.6	6.6	13.0	13.0	13.0	19.5	19.5
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: P248746

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2	6659.2
2.5°	6600.7	6603.9	6590.9	6587.7	6581.2	6584.4	6590.9
5°	6480.4	6483.6	6470.6	6457.6	6457.6	6454.3	6457.6
7.5°	6366.5	6369.8	6350.3	6343.7	6330.7	6334.1	6334.1
10°	6252.7	6252.7	6223.5	6220.2	6210.4	6207.2	6207.2
12.5°	6142.2	6132.4	6109.6	6096.7	6103.2	6083.7	6083.7
15°	6044.6	6028.4	5999.1	5989.3	5973.1	5966.6	5966.6
17.5°	5943.8	5930.8	5904.9	5885.3	5865.8	5862.6	5865.8
20°	5846.3	5833.3	5800.7	5787.8	5771.6	5771.6	5765.0
22.5°	5748.7	5735.7	5706.5	5696.8	5674.0	5674.0	5677.2
25°	5647.9	5638.1	5605.6	5599.2	5596.0	5582.9	5589.4
27.5°	5511.4	5504.8	5478.9	5469.1	5456.1	5452.9	5459.3
30°	5261.0	5251.2	5231.8	5222.0	5199.3	5202.5	5208.9
32.5°	4948.9	4935.9	4909.8	4900.0	4880.6	4874.1	4877.3
35°	4558.7	4549.0	4526.2	4526.2	4506.7	4500.1	4506.7
37.5°	4162.1	4171.7	4162.1	4171.7	4162.1	4158.7	4162.1
40°	3788.1	3823.8	3830.3	3866.1	3853.2	3872.6	3869.4
42.5°	3430.4	3488.9	3511.7	3540.9	3534.5	3547.5	3557.2
45°	3069.4	3118.3	3141.0	3160.6	3163.8	3170.3	3173.5
47.5°	2728.0	2767.1	2770.3	2793.0	2789.8	2789.8	2799.6
50°	2409.5	2435.4	2441.9	2458.2	2445.2	2438.6	2441.9
52.5°	2113.5	2139.5	2133.0	2139.5	2123.3	2116.8	2120.0
55°	1811.1	1824.1	1824.1	1824.1	1804.7	1804.7	1804.7
57.5°	1502.2	1505.5	1499.0	1502.2	1499.0	1479.4	1476.2
60°	1219.4	1219.4	1216.0	1219.4	1209.6	1199.8	1199.8
62.5°	952.6	959.2	972.2	959.2	952.6	959.2	949.4
65°	712.1	725.1	721.8	728.3	725.1	725.1	718.6
67.5°	536.6	539.8	543.0	546.3	546.3	546.3	546.3
70°	393.5	403.2	399.9	399.9	399.9	399.9	419.4
72.5°	263.4	276.4	273.2	279.6	279.6	286.1	279.6
75°	178.8	191.8	185.4	195.1	191.8	185.4	201.6
77.5°	120.3	126.9	130.1	133.3	130.1	126.9	130.1
80°	84.6	91.0	87.8	91.0	91.0	91.0	94.4
82.5°	52.1	61.8	58.5	61.8	58.5	61.8	61.8
85°	35.7	39.1	32.5	39.1	35.7	35.7	42.3
87.5°	22.8	19.5	19.5	22.8	19.5	22.8	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)