

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: P248718

Luminaire Tested: **LD8B120D010 ER8B120935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120935 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10424.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

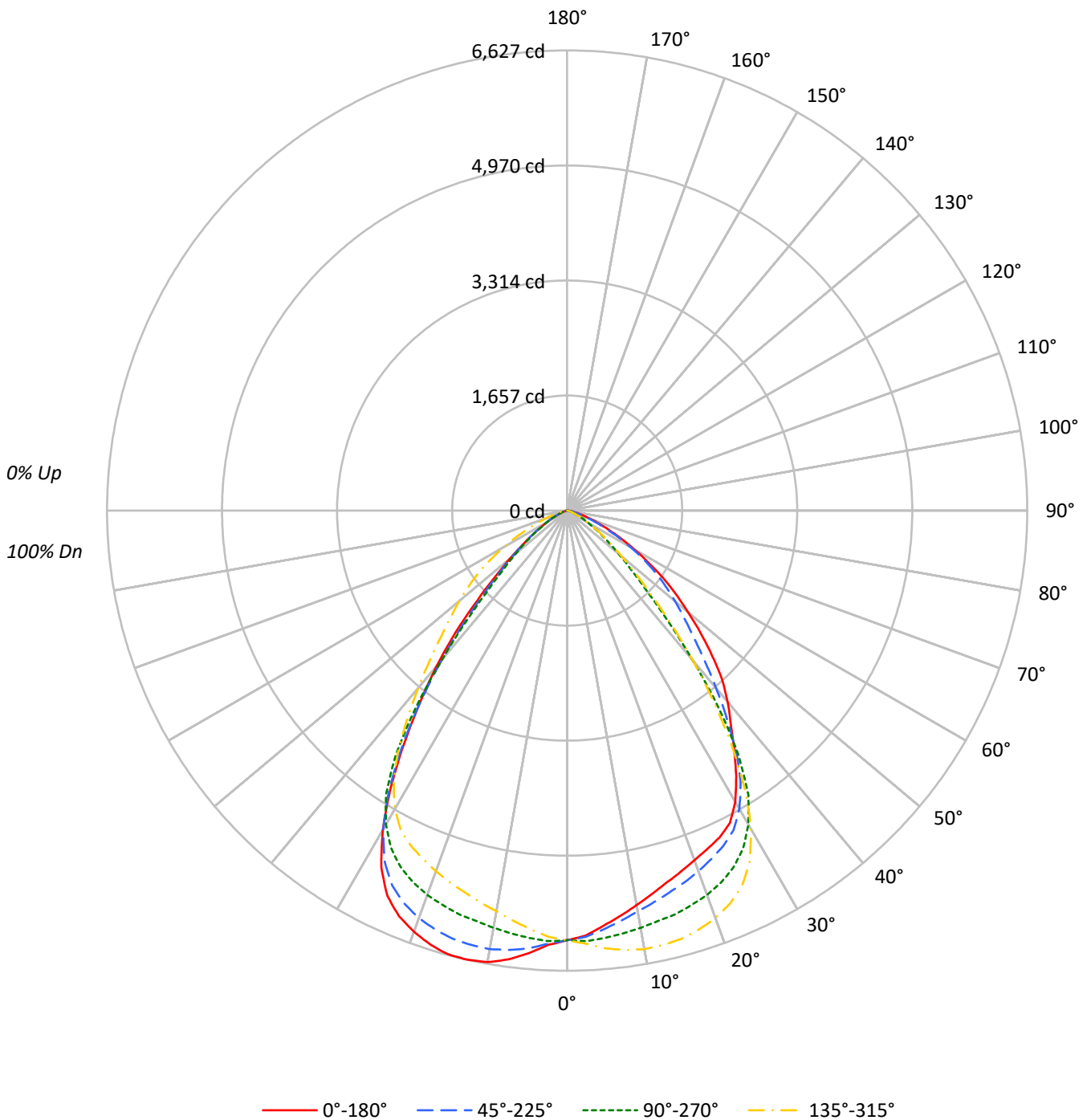
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	190827	190827	190827	190827
5°	185759	191275	198106	191275
10°	180620	191025	206731	191025
15°	177013	192158	211258	192158
20°	175805	193259	211800	193259
25°	176731	192869	208398	192869
30°	172361	185810	189150	185810
35°	157658	162092	153788	162092
40°	144745	112751	117743	112751
45°	128612	68785	79591	68785
50°	108860	45948	51029	45948
55°	90163	31354	33139	31354
60°	68765	20870	21055	20870
65°	48726	13002	11908	13002
70°	35144	8709	7907	8709
75°	22315	4325	3598	4325
80°	15574	3232	2664	3232
85°	13905	0	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.0	5.7
10°-20°	1705.7	16.4
20°-30°	2582.8	24.8
30°-40°	2588.6	24.8
40°-50°	1625.5	15.6
50°-60°	866.2	8.3
60°-70°	356.2	3.4
70°-80°	94.1	0.9
80°-90°	15.9	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°	4877.5	46.8
0°-40°	7466.1	71.6
0°-60°	9957.8	95.5
0°-90°	10424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10424.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6188	6188	6188	6188	6188	
5°	6001	6179	6400	6179	6001	566
15°	5545	6019	6618	6019	5545	1568
25°	5194	5669	6125	5669	5194	2382
35°	4188	4306	4085	4306	4188	2624
45°	2949	1577	1825	1577	2949	2268
55°	1677	583	616	583	1677	1495
65°	668	178	163	178	668	693
75°	187	36	30	36	187	212
85°	39	0	3	0	39	43
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°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6125.0	6118.9	6115.9	6122.0	6125.0	6137.0	6134.0	6140.0	6140.0	6143.1	6149.1
5°	6001.1	5998.0	6001.1	6001.1	6013.2	6025.2	6022.2	6031.3	6037.3	6052.5	6058.4
7.5°	5886.3	5886.3	5883.2	5895.2	5901.3	5919.5	5916.4	5931.6	5940.6	5955.7	5976.8
10°	5768.4	5768.4	5771.4	5780.4	5783.6	5810.7	5810.7	5831.8	5843.9	5859.1	5886.3
12.5°	5653.6	5653.6	5671.7	5665.7	5677.7	5698.9	5707.9	5729.1	5747.2	5777.5	5804.7
15°	5544.8	5544.8	5550.9	5565.9	5575.0	5602.2	5617.3	5641.5	5662.7	5692.9	5732.2
17.5°	5451.1	5448.1	5451.1	5469.3	5487.4	5511.6	5523.6	5553.8	5575.0	5614.3	5650.6
20°	5357.4	5363.5	5363.5	5378.6	5390.7	5420.9	5432.9	5466.3	5490.4	5526.6	5569.0
22.5°	5275.9	5272.9	5272.9	5294.0	5303.1	5330.2	5342.3	5372.5	5399.7	5430.0	5469.3
25°	5194.3	5188.2	5200.4	5203.3	5209.3	5239.5	5248.6	5269.8	5297.0	5324.2	5363.5
27.5°	5073.4	5067.4	5070.4	5082.5	5091.5	5115.7	5121.8	5142.9	5164.0	5188.2	5221.5
30°	4840.7	4834.7	4831.7	4852.9	4861.9	4880.0	4889.1	4925.4	4931.3	4958.6	4982.7
32.5°	4532.5	4529.5	4535.6	4553.6	4562.7	4586.9	4599.0	4620.2	4635.2	4650.4	4674.5
35°	4188.1	4182.0	4188.1	4206.2	4206.2	4227.4	4236.5	4245.4	4242.4	4245.4	4239.4
37.5°	3867.8	3864.7	3867.8	3876.8	3867.8	3876.8	3867.8	3849.7	3816.4	3780.1	3743.8
40°	3595.8	3598.8	3580.8	3592.8	3559.5	3553.5	3520.3	3474.9	3408.5	3336.0	3233.3
42.5°	3305.8	3296.7	3284.6	3290.6	3263.5	3242.2	3187.9	3130.5	3045.8	2925.0	2801.0
45°	2949.2	2946.2	2940.1	2937.1	2919.0	2897.8	2852.4	2786.0	2692.3	2568.5	2420.3
47.5°	2601.7	2592.6	2592.6	2595.6	2574.4	2571.5	2535.1	2477.8	2396.2	2275.3	2121.2
50°	2269.2	2266.2	2272.3	2284.4	2269.2	2263.3	2239.1	2199.8	2127.3	2024.6	1879.4
52.5°	1970.1	1967.1	1973.2	1988.3	1982.2	1988.3	1964.1	1933.9	1885.5	1785.8	1658.9
55°	1677.1	1677.1	1677.1	1695.1	1695.1	1695.1	1683.0	1665.0	1619.6	1547.1	1429.3
57.5°	1371.9	1374.8	1393.0	1396.0	1393.0	1399.1	1396.0	1377.8	1347.7	1296.4	1205.7
60°	1115.0	1115.0	1124.1	1133.2	1130.1	1133.2	1133.2	1124.1	1093.9	1051.6	979.1
62.5°	882.3	891.4	885.3	891.4	903.5	891.4	885.3	879.3	858.2	830.9	770.5
65°	667.8	673.9	673.9	676.8	670.8	673.9	661.8	652.7	640.7	610.4	571.1
67.5°	507.7	507.7	507.7	507.7	504.6	501.6	498.6	489.5	468.4	456.3	413.9
70°	389.8	371.6	371.6	371.6	371.6	374.7	365.7	353.6	347.5	326.4	296.1
72.5°	259.8	265.9	259.8	259.8	253.8	256.8	244.8	238.7	232.7	220.6	202.5
75°	187.3	172.3	178.2	181.3	172.3	178.2	166.2	154.1	154.1	145.0	135.9
77.5°	120.9	117.9	120.9	123.9	120.9	117.9	111.8	105.7	105.7	102.7	93.7
80°	87.7	84.6	84.6	84.6	81.6	84.6	78.6	78.6	72.5	69.5	63.4
82.5°	57.5	57.5	54.4	57.5	54.4	57.5	48.4	48.4	48.4	45.3	39.3
85°	39.3	33.2	33.2	36.3	30.2	36.3	33.2	30.2	27.2	27.2	24.1
87.5°	18.2	21.1	18.2	21.1	18.2	18.2	21.1	18.2	18.2	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6158.2	6161.2	6161.2	6173.3	6179.3	6182.3	6182.3	6206.6	6197.5	6203.6	6209.5
5°	6070.6	6088.7	6094.7	6094.7	6128.0	6140.0	6152.1	6179.3	6182.3	6200.5	6221.6
7.5°	5985.9	6007.1	6019.2	6046.4	6067.5	6088.7	6125.0	6143.1	6161.2	6185.4	6212.5
10°	5904.3	5928.6	5952.7	5973.9	6007.1	6034.3	6058.4	6100.7	6122.0	6155.2	6191.4
12.5°	5825.8	5859.1	5880.2	5916.4	5952.7	5976.8	6013.2	6052.5	6085.7	6118.9	6161.2
15°	5756.3	5795.6	5819.8	5859.1	5898.4	5931.6	5970.9	6019.2	6043.4	6082.7	6122.0
17.5°	5680.7	5723.1	5753.3	5789.5	5837.9	5874.1	5907.4	5955.7	5985.9	6028.2	6073.6
20°	5602.2	5644.5	5680.7	5717.0	5765.4	5801.6	5840.9	5889.3	5922.5	5964.8	6001.1
22.5°	5508.6	5547.9	5587.0	5629.3	5677.7	5707.9	5753.3	5795.6	5831.8	5871.1	5907.4
25°	5387.7	5436.1	5466.3	5505.5	5544.8	5578.0	5626.3	5668.6	5698.9	5735.2	5768.4
27.5°	5245.6	5282.0	5306.1	5339.3	5378.6	5408.8	5445.0	5487.4	5517.6	5550.9	5575.0
30°	5003.9	5037.2	5058.3	5082.5	5121.8	5149.0	5179.2	5218.4	5239.5	5263.8	5284.9
32.5°	4686.6	4713.8	4725.9	4744.0	4771.3	4798.4	4822.6	4855.8	4864.9	4880.0	4880.0
35°	4227.4	4233.3	4230.4	4236.5	4248.5	4263.6	4284.7	4305.9	4317.9	4317.9	4309.0
37.5°	3689.5	3653.3	3614.0	3583.7	3574.7	3568.6	3580.8	3589.7	3601.9	3607.9	3592.8
40°	3130.5	3048.9	2961.2	2882.6	2828.3	2804.2	2795.1	2801.0	2801.0	2822.2	2822.2
42.5°	2650.1	2523.1	2393.2	2275.3	2196.7	2136.4	2109.1	2109.1	2112.1	2127.3	2136.4
45°	2251.2	2091.0	1939.9	1810.0	1701.2	1622.6	1586.4	1577.3	1574.3	1580.3	1601.5
47.5°	1946.0	1779.8	1622.6	1462.5	1347.7	1269.1	1235.9	1223.7	1211.7	1223.7	1226.8
50°	1707.3	1535.0	1368.9	1208.7	1087.8	1018.3	976.0	957.8	954.8	954.8	960.9
52.5°	1489.6	1329.6	1163.4	1000.2	873.2	806.8	767.5	758.4	746.4	758.4	758.4
55°	1284.2	1124.1	960.9	806.8	701.0	631.6	595.3	583.2	577.1	586.2	586.2
57.5°	1060.7	924.6	773.6	634.6	528.8	480.5	453.2	438.2	435.1	441.2	435.1
60°	870.3	755.5	625.5	498.6	417.0	365.7	344.5	338.4	332.3	338.4	338.4
62.5°	688.9	592.3	486.4	389.8	320.3	284.1	259.8	259.8	256.8	256.8	259.8
65°	510.7	435.1	359.6	278.0	223.6	196.4	178.2	178.2	175.2	178.2	175.2
67.5°	371.6	320.3	259.8	202.5	160.2	145.0	133.0	123.9	130.0	123.9	120.9
70°	272.0	229.6	187.3	154.1	123.9	108.8	99.7	96.6	90.7	90.7	90.7
72.5°	181.3	154.1	126.9	99.7	81.6	66.4	63.4	57.5	51.4	54.4	60.4
75°	120.9	102.7	90.7	72.5	54.4	54.4	36.3	36.3	30.2	36.3	27.2
77.5°	84.6	69.5	54.4	45.3	36.3	33.2	24.1	24.1	21.1	21.1	21.1
80°	60.4	51.4	39.3	33.2	24.1	24.1	21.1	18.2	15.0	15.0	18.2
82.5°	36.3	27.2	27.2	24.1	15.0	12.1	9.1	12.1	6.1	6.1	6.1
85°	21.1	18.2	15.0	9.1	6.1	6.1	3.0	0.0	3.0	3.0	0.0
87.5°	12.1	6.1	6.1	3.0	0.0	3.0	3.0	0.0	0.0	0.0	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6224.7	6221.6	6227.7	6227.7	6245.9	6242.8	6251.8	6251.8	6245.9	6248.8	6260.9
5°	6245.9	6254.9	6273.0	6288.1	6315.3	6327.4	6342.5	6357.7	6360.7	6369.7	6378.8
7.5°	6245.9	6276.1	6297.2	6324.3	6360.7	6381.8	6415.0	6442.2	6454.3	6469.4	6487.5
10°	6233.7	6263.9	6303.2	6333.4	6378.8	6412.0	6445.2	6487.5	6505.7	6529.8	6554.1
12.5°	6209.5	6242.8	6285.0	6324.3	6375.7	6405.9	6448.2	6487.5	6514.8	6548.0	6575.2
15°	6173.3	6212.5	6251.8	6291.1	6345.5	6381.8	6421.1	6466.4	6493.6	6529.8	6554.1
17.5°	6115.9	6158.2	6194.5	6230.7	6282.1	6324.3	6360.7	6402.9	6430.2	6460.4	6493.6
20°	6046.4	6085.7	6125.0	6155.2	6206.6	6242.8	6282.1	6321.4	6342.5	6348.6	6400.0
22.5°	5958.8	5985.9	6016.1	6064.5	6094.7	6128.0	6164.3	6200.5	6221.6	6254.9	6273.0
25°	5813.7	5840.9	5874.1	5895.2	5931.6	5958.8	5995.0	6034.3	6046.4	6070.6	6088.7
27.5°	5611.3	5626.3	5641.5	5659.6	5680.7	5695.9	5717.0	5735.2	5747.2	5759.3	5771.4
30°	5290.9	5290.9	5290.9	5278.8	5287.9	5297.0	5300.0	5297.0	5297.0	5294.0	5294.0
32.5°	4867.9	4843.8	4816.5	4792.4	4783.3	4771.3	4765.2	4756.1	4741.0	4732.0	4735.0
35°	4296.8	4242.4	4209.2	4179.0	4154.9	4136.7	4127.6	4118.6	4115.6	4103.5	4091.3
37.5°	3583.7	3544.4	3520.3	3502.1	3481.0	3462.8	3465.8	3468.9	3477.9	3471.9	3474.9
40°	2828.3	2819.2	2828.3	2807.1	2801.0	2807.1	2822.2	2843.5	2855.5	2867.6	2888.7
42.5°	2151.4	2166.5	2187.8	2187.8	2196.7	2208.9	2226.9	2260.3	2278.3	2299.4	2323.7
45°	1619.6	1637.8	1665.0	1674.0	1680.1	1695.1	1716.4	1743.5	1755.6	1773.7	1794.9
47.5°	1248.0	1260.0	1275.1	1290.3	1305.3	1311.4	1332.6	1332.6	1347.7	1359.8	1365.8
50°	973.0	985.0	997.1	1006.2	1012.3	1021.4	1027.3	1036.4	1039.4	1045.5	1048.5
52.5°	761.4	776.6	776.6	782.6	791.6	800.7	797.7	800.7	803.7	803.7	812.8
55°	595.3	595.3	604.3	604.3	610.4	607.3	610.4	610.4	610.4	610.4	613.4
57.5°	444.1	447.3	456.3	450.2	447.3	453.2	447.3	453.2	450.2	456.3	447.3
60°	341.4	341.4	344.5	344.5	347.5	347.5	347.5	344.5	344.5	341.4	341.4
62.5°	256.8	259.8	262.9	259.8	259.8	259.8	256.8	256.8	253.8	250.7	250.7
65°	172.3	169.3	175.2	169.3	172.3	172.3	169.3	172.3	163.2	166.2	163.2
67.5°	123.9	120.9	117.9	120.9	117.9	114.8	114.8	117.9	120.9	111.8	111.8
70°	81.6	84.6	81.6	84.6	87.7	87.7	84.6	81.6	84.6	78.6	81.6
72.5°	51.4	51.4	51.4	51.4	51.4	54.4	54.4	54.4	48.4	48.4	45.3
75°	24.1	33.2	27.2	24.1	33.2	33.2	30.2	30.2	27.2	27.2	27.2
77.5°	24.1	18.2	18.2	18.2	18.2	18.2	18.2	18.2	15.0	18.2	15.0
80°	12.1	12.1	12.1	9.1	12.1	12.1	15.0	12.1	12.1	9.1	15.0
82.5°	6.1	6.1	6.1	0.0	3.0	6.1	6.1	3.0	6.1	6.1	3.0
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: P248718

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6257.9	6254.9	6257.9	6260.9	6257.9	6254.9	6257.9	6260.9	6248.8	6245.9	6251.8
5°	6390.9	6390.9	6396.9	6400.0	6396.9	6390.9	6390.9	6378.8	6369.7	6360.7	6357.7
7.5°	6505.7	6511.8	6517.7	6520.7	6517.7	6511.8	6505.7	6487.5	6469.4	6454.3	6442.2
10°	6575.2	6584.3	6596.3	6602.3	6596.3	6584.3	6575.2	6554.1	6529.8	6505.7	6487.5
12.5°	6605.4	6614.5	6629.6	6626.6	6629.6	6614.5	6605.4	6575.2	6548.0	6514.8	6487.5
15°	6584.3	6596.3	6611.4	6617.5	6611.4	6596.3	6584.3	6554.1	6529.8	6493.6	6466.4
17.5°	6517.7	6535.9	6545.0	6554.1	6545.0	6535.9	6517.7	6493.6	6460.4	6430.2	6402.9
20°	6427.1	6439.3	6451.3	6454.3	6451.3	6439.3	6427.1	6400.0	6348.6	6342.5	6321.4
22.5°	6297.2	6306.3	6333.4	6324.3	6333.4	6306.3	6297.2	6273.0	6254.9	6221.6	6200.5
25°	6109.8	6118.9	6122.0	6125.0	6122.0	6118.9	6109.8	6088.7	6070.6	6046.4	6034.3
27.5°	5786.5	5786.5	5792.5	5795.6	5792.5	5786.5	5786.5	5771.4	5759.3	5747.2	5735.2
30°	5297.0	5297.0	5297.0	5312.2	5297.0	5297.0	5297.0	5294.0	5294.0	5297.0	5297.0
32.5°	4732.0	4725.9	4719.9	4725.9	4719.9	4725.9	4732.0	4735.0	4732.0	4741.0	4756.1
35°	4091.3	4088.3	4097.4	4085.3	4097.4	4088.3	4091.3	4091.3	4103.5	4115.6	4118.6
37.5°	3477.9	3471.9	3484.0	3471.9	3484.0	3471.9	3477.9	3474.9	3471.9	3477.9	3468.9
40°	2894.8	2900.8	2900.8	2925.0	2900.8	2900.8	2894.8	2888.7	2867.6	2855.5	2843.5
42.5°	2335.8	2353.9	2347.8	2366.0	2347.8	2353.9	2335.8	2323.7	2299.4	2278.3	2260.3
45°	1806.9	1819.1	1819.1	1825.1	1819.1	1819.1	1806.9	1794.9	1773.7	1755.6	1743.5
47.5°	1386.9	1386.9	1386.9	1390.0	1386.9	1386.9	1386.9	1365.8	1359.8	1347.7	1332.6
50°	1054.6	1057.6	1060.7	1063.7	1060.7	1057.6	1054.6	1048.5	1045.5	1039.4	1036.4
52.5°	809.8	812.8	806.8	812.8	806.8	812.8	809.8	812.8	803.7	803.7	800.7
55°	613.4	610.4	613.4	616.4	613.4	610.4	613.4	613.4	610.4	610.4	610.4
57.5°	450.2	444.1	444.1	444.1	444.1	444.1	450.2	447.3	456.3	450.2	453.2
60°	335.4	338.4	338.4	341.4	338.4	338.4	335.4	341.4	341.4	344.5	344.5
62.5°	247.8	256.8	250.7	256.8	250.7	256.8	247.8	250.7	250.7	253.8	256.8
65°	160.2	160.2	160.2	163.2	160.2	160.2	160.2	163.2	166.2	163.2	172.3
67.5°	108.8	111.8	117.9	114.8	117.9	111.8	108.8	111.8	111.8	120.9	117.9
70°	87.7	78.6	78.6	87.7	78.6	78.6	87.7	81.6	78.6	84.6	81.6
72.5°	51.4	45.3	51.4	51.4	51.4	45.3	51.4	45.3	48.4	48.4	54.4
75°	27.2	24.1	21.1	30.2	21.1	24.1	27.2	27.2	27.2	27.2	30.2
77.5°	18.2	15.0	21.1	21.1	21.1	15.0	18.2	15.0	18.2	15.0	18.2
80°	9.1	12.1	9.1	15.0	9.1	12.1	9.1	15.0	9.1	12.1	12.1
82.5°	3.0	6.1	6.1	6.1	6.1	6.1	3.0	3.0	6.1	6.1	3.0
85°	0.0	6.1	3.0	3.0	3.0	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.0	0.0	3.0	0.0	0.0	3.0	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: P248718

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6251.8	6242.8	6245.9	6227.7	6227.7	6221.6	6224.7	6209.5	6203.6	6197.5	6206.6
5°	6342.5	6327.4	6315.3	6288.1	6273.0	6254.9	6245.9	6221.6	6200.5	6182.3	6179.3
7.5°	6415.0	6381.8	6360.7	6324.3	6297.2	6276.1	6245.9	6212.5	6185.4	6161.2	6143.1
10°	6445.2	6412.0	6378.8	6333.4	6303.2	6263.9	6233.7	6191.4	6155.2	6122.0	6100.7
12.5°	6448.2	6405.9	6375.7	6324.3	6285.0	6242.8	6209.5	6161.2	6118.9	6085.7	6052.5
15°	6421.1	6381.8	6345.5	6291.1	6251.8	6212.5	6173.3	6122.0	6082.7	6043.4	6019.2
17.5°	6360.7	6324.3	6282.1	6230.7	6194.5	6158.2	6115.9	6073.6	6028.2	5985.9	5955.7
20°	6282.1	6242.8	6206.6	6155.2	6125.0	6085.7	6046.4	6001.1	5964.8	5922.5	5889.3
22.5°	6164.3	6128.0	6094.7	6064.5	6016.1	5985.9	5958.8	5907.4	5871.1	5831.8	5795.6
25°	5995.0	5958.8	5931.6	5895.2	5874.1	5840.9	5813.7	5768.4	5735.2	5698.9	5668.6
27.5°	5717.0	5695.9	5680.7	5659.6	5641.5	5626.3	5611.3	5575.0	5550.9	5517.6	5487.4
30°	5300.0	5297.0	5287.9	5278.8	5290.9	5290.9	5290.9	5284.9	5263.8	5239.5	5218.4
32.5°	4765.2	4771.3	4783.3	4792.4	4816.5	4843.8	4867.9	4880.0	4880.0	4864.9	4855.8
35°	4127.6	4136.7	4154.9	4179.0	4209.2	4242.4	4296.8	4309.0	4317.9	4317.9	4305.9
37.5°	3465.8	3462.8	3481.0	3502.1	3520.3	3544.4	3583.7	3592.8	3607.9	3601.9	3589.7
40°	2822.2	2807.1	2801.0	2807.1	2828.3	2819.2	2828.3	2822.2	2822.2	2801.0	2801.0
42.5°	2226.9	2208.9	2196.7	2187.8	2187.8	2166.5	2151.4	2136.4	2127.3	2112.1	2109.1
45°	1716.4	1695.1	1680.1	1674.0	1665.0	1637.8	1619.6	1601.5	1580.3	1574.3	1577.3
47.5°	1332.6	1311.4	1305.3	1290.3	1275.1	1260.0	1248.0	1226.8	1223.7	1211.7	1223.7
50°	1027.3	1021.4	1012.3	1006.2	997.1	985.0	973.0	960.9	954.8	954.8	957.8
52.5°	797.7	800.7	791.6	782.6	776.6	776.6	761.4	758.4	758.4	746.4	758.4
55°	610.4	607.3	610.4	604.3	604.3	595.3	595.3	586.2	586.2	577.1	583.2
57.5°	447.3	453.2	447.3	450.2	456.3	447.3	444.1	435.1	441.2	435.1	438.2
60°	347.5	347.5	347.5	344.5	344.5	341.4	341.4	338.4	338.4	332.3	338.4
62.5°	256.8	259.8	259.8	259.8	262.9	259.8	256.8	259.8	256.8	256.8	259.8
65°	169.3	172.3	172.3	169.3	175.2	169.3	172.3	175.2	178.2	175.2	178.2
67.5°	114.8	114.8	117.9	120.9	117.9	120.9	123.9	120.9	123.9	130.0	123.9
70°	84.6	87.7	87.7	84.6	81.6	84.6	81.6	90.7	90.7	90.7	96.6
72.5°	54.4	54.4	51.4	51.4	51.4	51.4	51.4	60.4	54.4	51.4	57.5
75°	30.2	33.2	33.2	24.1	27.2	33.2	24.1	27.2	36.3	30.2	36.3
77.5°	18.2	18.2	18.2	18.2	18.2	18.2	24.1	21.1	21.1	21.1	24.1
80°	15.0	12.1	12.1	9.1	12.1	12.1	12.1	18.2	15.0	15.0	18.2
82.5°	6.1	6.1	3.0	0.0	6.1	6.1	6.1	6.1	6.1	6.1	12.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248718

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6182.3	6182.3	6179.3	6173.3	6161.2	6161.2	6158.2	6149.1	6143.1	6140.0	6140.0
5°	6152.1	6140.0	6128.0	6094.7	6094.7	6088.7	6070.6	6058.4	6052.5	6037.3	6031.3
7.5°	6125.0	6088.7	6067.5	6046.4	6019.2	6007.1	5985.9	5976.8	5955.7	5940.6	5931.6
10°	6058.4	6034.3	6007.1	5973.9	5952.7	5928.6	5904.3	5886.3	5859.1	5843.9	5831.8
12.5°	6013.2	5976.8	5952.7	5916.4	5880.2	5859.1	5825.8	5804.7	5777.5	5747.2	5729.1
15°	5970.9	5931.6	5898.4	5859.1	5819.8	5795.6	5756.3	5732.2	5692.9	5662.7	5641.5
17.5°	5907.4	5874.1	5837.9	5789.5	5753.3	5723.1	5680.7	5650.6	5614.3	5575.0	5553.8
20°	5840.9	5801.6	5765.4	5717.0	5680.7	5644.5	5602.2	5569.0	5526.6	5490.4	5466.3
22.5°	5753.3	5707.9	5677.7	5629.3	5587.0	5547.9	5508.6	5469.3	5430.0	5399.7	5372.5
25°	5626.3	5578.0	5544.8	5505.5	5466.3	5436.1	5387.7	5363.5	5324.2	5297.0	5269.8
27.5°	5445.0	5408.8	5378.6	5339.3	5306.1	5282.0	5245.6	5221.5	5188.2	5164.0	5142.9
30°	5179.2	5149.0	5121.8	5082.5	5058.3	5037.2	5003.9	4982.7	4958.6	4931.3	4925.4
32.5°	4822.6	4798.4	4771.3	4744.0	4725.9	4713.8	4686.6	4674.5	4650.4	4635.2	4620.2
35°	4284.7	4263.6	4248.5	4236.5	4230.4	4233.3	4227.4	4239.4	4245.4	4242.4	4245.4
37.5°	3580.8	3568.6	3574.7	3583.7	3614.0	3653.3	3689.5	3743.8	3780.1	3816.4	3849.7
40°	2795.1	2804.2	2828.3	2882.6	2961.2	3048.9	3130.5	3233.3	3336.0	3408.5	3474.9
42.5°	2109.1	2136.4	2196.7	2275.3	2393.2	2523.1	2650.1	2801.0	2925.0	3045.8	3130.5
45°	1586.4	1622.6	1701.2	1810.0	1939.9	2091.0	2251.2	2420.3	2568.5	2692.3	2786.0
47.5°	1235.9	1269.1	1347.7	1462.5	1622.6	1779.8	1946.0	2121.2	2275.3	2396.2	2477.8
50°	976.0	1018.3	1087.8	1208.7	1368.9	1535.0	1707.3	1879.4	2024.6	2127.3	2199.8
52.5°	767.5	806.8	873.2	1000.2	1163.4	1329.6	1489.6	1658.9	1785.8	1885.5	1933.9
55°	595.3	631.6	701.0	806.8	960.9	1124.1	1284.2	1429.3	1547.1	1619.6	1665.0
57.5°	453.2	480.5	528.8	634.6	773.6	924.6	1060.7	1205.7	1296.4	1347.7	1377.8
60°	344.5	365.7	417.0	498.6	625.5	755.5	870.3	979.1	1051.6	1093.9	1124.1
62.5°	259.8	284.1	320.3	389.8	486.4	592.3	688.9	770.5	830.9	858.2	879.3
65°	178.2	196.4	223.6	278.0	359.6	435.1	510.7	571.1	610.4	640.7	652.7
67.5°	133.0	145.0	160.2	202.5	259.8	320.3	371.6	413.9	456.3	468.4	489.5
70°	99.7	108.8	123.9	154.1	187.3	229.6	272.0	296.1	326.4	347.5	353.6
72.5°	63.4	66.4	81.6	99.7	126.9	154.1	181.3	202.5	220.6	232.7	238.7
75°	36.3	54.4	54.4	72.5	90.7	102.7	120.9	135.9	145.0	154.1	154.1
77.5°	24.1	33.2	36.3	45.3	54.4	69.5	84.6	93.7	102.7	105.7	105.7
80°	21.1	24.1	24.1	33.2	39.3	51.4	60.4	63.4	69.5	72.5	78.6
82.5°	9.1	12.1	15.0	24.1	27.2	27.2	36.3	39.3	45.3	48.4	48.4
85°	3.0	6.1	6.1	9.1	15.0	18.2	21.1	24.1	27.2	27.2	30.2
87.5°	3.0	3.0	0.0	3.0	6.1	6.1	12.1	12.1	12.1	18.2	18.2
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: P248718

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4	6188.4
2.5°	6134.0	6137.0	6125.0	6122.0	6115.9	6118.9	6125.0
5°	6022.2	6025.2	6013.2	6001.1	6001.1	5998.0	6001.1
7.5°	5916.4	5919.5	5901.3	5895.2	5883.2	5886.3	5886.3
10°	5810.7	5810.7	5783.6	5780.4	5771.4	5768.4	5768.4
12.5°	5707.9	5698.9	5677.7	5665.7	5671.7	5653.6	5653.6
15°	5617.3	5602.2	5575.0	5565.9	5550.9	5544.8	5544.8
17.5°	5523.6	5511.6	5487.4	5469.3	5451.1	5448.1	5451.1
20°	5432.9	5420.9	5390.7	5378.6	5363.5	5363.5	5357.4
22.5°	5342.3	5330.2	5303.1	5294.0	5272.9	5272.9	5275.9
25°	5248.6	5239.5	5209.3	5203.3	5200.4	5188.2	5194.3
27.5°	5121.8	5115.7	5091.5	5082.5	5070.4	5067.4	5073.4
30°	4889.1	4880.0	4861.9	4852.9	4831.7	4834.7	4840.7
32.5°	4599.0	4586.9	4562.7	4553.6	4535.6	4529.5	4532.5
35°	4236.5	4227.4	4206.2	4206.2	4188.1	4182.0	4188.1
37.5°	3867.8	3876.8	3867.8	3876.8	3867.8	3864.7	3867.8
40°	3520.3	3553.5	3559.5	3592.8	3580.8	3598.8	3595.8
42.5°	3187.9	3242.2	3263.5	3290.6	3284.6	3296.7	3305.8
45°	2852.4	2897.8	2919.0	2937.1	2940.1	2946.2	2949.2
47.5°	2535.1	2571.5	2574.4	2595.6	2592.6	2592.6	2601.7
50°	2239.1	2263.3	2269.2	2284.4	2272.3	2266.2	2269.2
52.5°	1964.1	1988.3	1982.2	1988.3	1973.2	1967.1	1970.1
55°	1683.0	1695.1	1695.1	1695.1	1677.1	1677.1	1677.1
57.5°	1396.0	1399.1	1393.0	1396.0	1393.0	1374.8	1371.9
60°	1133.2	1133.2	1130.1	1133.2	1124.1	1115.0	1115.0
62.5°	885.3	891.4	903.5	891.4	885.3	891.4	882.3
65°	661.8	673.9	670.8	676.8	673.9	673.9	667.8
67.5°	498.6	501.6	504.6	507.7	507.7	507.7	507.7
70°	365.7	374.7	371.6	371.6	371.6	371.6	389.8
72.5°	244.8	256.8	253.8	259.8	259.8	265.9	259.8
75°	166.2	178.2	172.3	181.3	178.2	172.3	187.3
77.5°	111.8	117.9	120.9	123.9	120.9	117.9	120.9
80°	78.6	84.6	81.6	84.6	84.6	84.6	87.7
82.5°	48.4	57.5	54.4	57.5	54.4	57.5	57.5
85°	33.2	36.3	30.2	36.3	33.2	33.2	39.3
87.5°	21.1	18.2	18.2	21.1	18.2	21.1	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)