

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: P249755

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19497.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

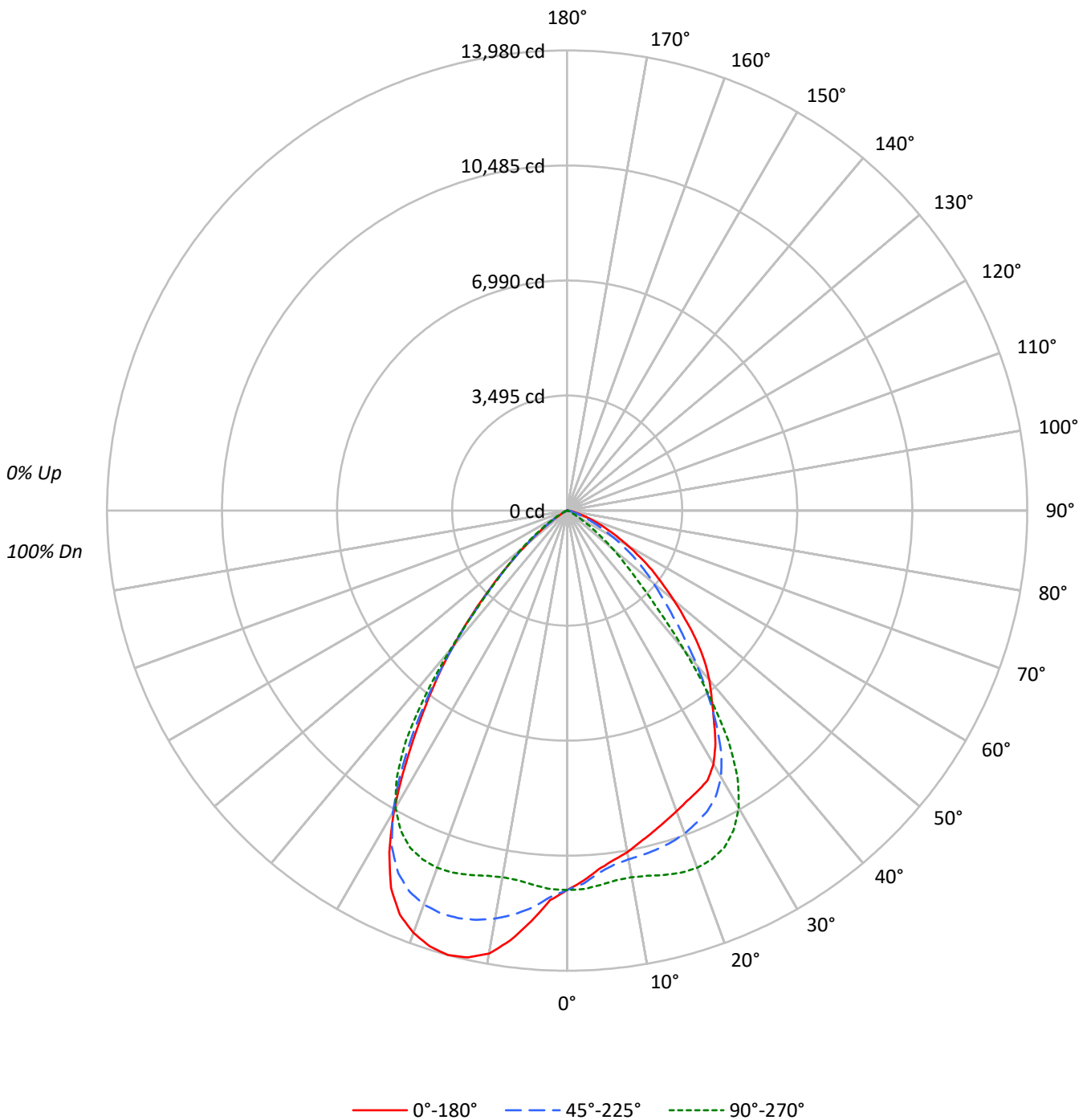
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	355500	355500	355500
5°	338681	353524	387545
10°	329947	354070	427785
15°	322465	365802	446293
20°	318916	379020	447965
25°	319663	384374	430561
30°	316697	371175	374437
35°	292642	321229	293041
40°	270422	222713	217295
45°	240801	134386	138843
50°	202613	86581	78570
55°	168564	47493	35918
60°	131572	20592	11298
65°	97094	10222	5502
70°	67511	6320	2416
75°	41080	1299	0
80°	29656	1936	0
85°	19070	1875	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1108.3	5.7
10°-20°	3317.0	17.0
20°-30°	5079.6	26.1
30°-40°	4979.7	25.5
40°-50°	2998.8	15.4
50°-60°	1380.3	7.1
60°-70°	484.9	2.5
70°-80°	126.8	0.7
80°-90°	21.6	0.1
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°	9504.9	48.8
0°-40°	14484.6	74.3
0°-60°	18863.7	96.8
0°-90°	19497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19497.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11529	11529	11529	11529	11529	
5°	10941	11044	11421	12105	12520	###
15°	10101	10645	11458	12816	13980	2854
25°	9395	10074	11297	12148	12655	4327
35°	7774	7882	8533	8043	7784	4869
45°	5522	4547	3082	3103	3184	4234
55°	3135	2484	883	695	668	2798
65°	1331	921	140	70	75	1356
75°	345	199	11	0	0	418
85°	54	27	5	0	0	74
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°	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6
2.5°	11259.2	11270.1	11270.1	11270.1	11291.6	11297.1	11291.6	11297.1	11307.8	11345.5	11361.6
5°	10941.4	10925.3	10936.1	10930.6	10957.6	10973.8	10963.0	10979.1	11016.8	11043.9	11070.7
7.5°	10715.3	10715.3	10715.3	10725.9	10742.1	10774.5	10769.1	10779.8	10817.5	10855.2	10892.9
10°	10537.4	10532.1	10532.1	10558.9	10580.4	10618.1	10629.0	10661.4	10709.7	10758.3	10801.3
12.5°	10305.7	10311.3	10338.1	10365.1	10413.5	10472.7	10505.1	10548.3	10623.7	10704.4	10753.0
15°	10101.0	10106.4	10128.1	10181.8	10241.2	10311.3	10381.1	10451.2	10542.8	10645.2	10731.5
17.5°	9901.7	9907.0	9923.2	9982.6	10058.0	10149.6	10230.3	10321.9	10440.5	10558.9	10666.7
20°	9718.5	9713.2	9740.0	9793.9	9891.0	9977.1	10058.0	10165.8	10295.1	10440.5	10564.3
22.5°	9540.7	9540.7	9567.7	9621.6	9707.9	9793.9	9880.2	9993.3	10122.5	10262.7	10408.2
25°	9395.2	9389.9	9427.6	9454.7	9519.2	9605.4	9697.0	9788.6	9917.9	10074.2	10214.1
27.5°	9239.1	9233.8	9239.1	9271.5	9330.7	9395.2	9465.3	9546.2	9654.0	9783.3	9917.9
30°	8894.3	8899.6	8899.6	8926.7	8959.1	9028.9	9066.6	9147.5	9244.4	9352.2	9470.8
32.5°	8382.5	8387.9	8387.9	8398.7	8425.6	8457.9	8490.3	8549.5	8624.9	8716.5	8824.2
35°	7773.9	7773.9	7768.3	7773.9	7790.0	7790.0	7816.9	7790.0	7827.7	7881.6	7962.3
37.5°	7213.5	7202.6	7192.0	7181.1	7164.9	7138.1	7100.4	7035.7	7019.5	6998.0	7003.3
40°	6717.9	6712.6	6680.2	6653.2	6599.3	6534.8	6443.2	6330.1	6238.5	6130.7	6039.2
42.5°	6168.4	6162.9	6136.1	6087.5	6028.3	5931.4	5785.9	5635.1	5452.0	5290.3	5123.4
45°	5521.8	5538.0	5500.3	5446.4	5376.4	5284.8	5123.4	4940.0	4756.8	4546.8	4336.6
47.5°	4848.4	4843.1	4816.2	4783.9	4724.7	4633.1	4525.3	4326.0	4132.0	3938.1	3722.6
50°	4223.5	4202.0	4191.2	4159.0	4121.3	4045.9	3932.6	3771.0	3598.7	3415.5	3216.2
52.5°	3631.0	3631.0	3604.0	3582.5	3550.1	3490.9	3394.0	3264.7	3119.3	2946.7	2736.7
55°	3135.4	3124.6	3097.7	3070.7	3038.3	3000.6	2914.6	2806.8	2650.5	2483.5	2300.4
57.5°	2607.5	2601.9	2591.3	2558.9	2542.7	2505.0	2408.1	2300.4	2165.8	2020.3	1869.3
60°	2133.4	2111.9	2090.1	2068.6	2041.8	2004.1	1939.4	1847.8	1734.7	1605.4	1454.6
62.5°	1707.9	1740.0	1675.5	1675.5	1621.6	1589.2	1530.0	1476.1	1357.5	1239.1	1109.8
65°	1330.7	1330.7	1303.6	1282.1	1249.7	1212.0	1152.8	1099.0	1012.7	921.1	829.5
67.5°	1018.2	1012.7	985.9	964.4	937.3	915.8	872.8	808.0	743.5	668.1	592.5
70°	748.8	743.5	738.0	700.3	678.8	651.9	619.5	576.5	528.0	474.1	404.0
72.5°	538.6	538.6	522.6	506.5	485.0	463.2	431.1	404.0	361.0	323.3	274.7
75°	344.8	339.5	339.5	312.4	312.4	280.1	258.6	242.4	220.9	199.3	156.3
77.5°	247.9	242.4	237.0	226.2	215.5	204.7	188.5	167.0	150.8	129.3	113.1
80°	167.0	156.3	150.8	150.8	134.6	129.3	134.6	102.4	96.9	80.7	70.1
82.5°	102.4	102.4	96.9	96.9	91.6	86.3	70.1	70.1	64.7	59.2	48.6
85°	53.9	70.1	48.6	53.9	48.6	53.9	48.6	37.7	32.4	26.8	26.8
87.5°	32.4	21.5	21.5	32.4	26.8	21.5	21.5	21.5	16.2	10.9	10.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6
2.5°	11351.0	11388.7	11383.2	11431.7	11447.9	11485.6	11485.6	11512.4	11528.6	11566.3	11598.7
5°	11081.6	11140.8	11157.0	11216.2	11264.7	11323.9	11361.6	11420.9	11474.7	11555.7	11631.1
7.5°	10914.6	10963.0	10995.3	11065.4	11119.3	11183.8	11248.6	11329.3	11404.7	11501.8	11609.6
10°	10833.7	10898.4	10946.8	11016.8	11081.6	11151.7	11216.2	11307.8	11394.0	11518.0	11636.4
12.5°	10812.2	10887.6	10946.8	11043.9	11108.4	11183.8	11259.2	11361.6	11453.2	11582.5	11717.3
15°	10812.2	10914.6	10995.3	11103.1	11178.5	11275.4	11356.3	11458.5	11561.0	11695.6	11824.9
17.5°	10790.7	10914.6	11016.8	11140.8	11237.7	11334.8	11437.0	11534.2	11641.7	11771.2	11916.4
20°	10704.4	10860.7	10984.5	11129.9	11232.4	11340.1	11442.6	11550.1	11663.4	11798.0	11922.0
22.5°	10553.6	10736.8	10876.9	11033.0	11151.7	11259.2	11361.6	11469.4	11593.4	11722.6	11851.9
25°	10354.3	10526.6	10677.6	10839.0	10957.6	11076.0	11173.2	11297.1	11410.2	11534.2	11636.4
27.5°	10052.5	10235.6	10381.1	10548.3	10655.8	10769.1	10849.9	10952.3	11060.1	11162.3	11243.2
30°	9600.1	9767.1	9917.9	10068.7	10176.4	10257.4	10343.4	10424.3	10494.4	10564.3	10634.3
32.5°	8937.3	9088.3	9233.8	9373.7	9460.0	9530.1	9594.6	9643.1	9680.8	9718.5	9723.9
35°	8027.1	8150.8	8242.4	8366.3	8447.3	8511.8	8511.8	8533.3	8528.0	8511.8	8495.6
37.5°	7008.8	7057.2	7094.9	7143.4	7148.8	7148.8	7116.6	7089.6	7046.5	7035.7	7003.3
40°	5947.6	5882.8	5834.3	5769.7	5732.0	5651.1	5581.3	5532.7	5462.6	5452.0	5441.1
42.5°	4940.0	4789.2	4654.6	4541.5	4412.2	4298.9	4196.7	4121.3	4067.4	4061.9	4067.4
45°	4121.3	3948.8	3749.4	3593.3	3447.9	3307.7	3173.1	3081.6	3033.0	3022.1	3033.0
47.5°	3501.8	3302.4	3108.4	2930.5	2774.4	2618.1	2483.5	2359.6	2300.4	2284.2	2278.8
50°	3011.5	2806.8	2601.9	2418.8	2246.5	2090.1	1923.2	1804.8	1729.4	1702.3	1680.8
52.5°	2532.1	2348.9	2138.7	1950.2	1777.7	1594.6	1422.3	1287.4	1212.0	1179.9	1158.2
55°	2111.9	1928.7	1734.7	1551.5	1368.4	1185.2	1012.7	883.4	802.7	765.0	738.0
57.5°	1686.1	1513.8	1346.9	1163.7	1012.7	835.1	662.6	549.5	479.4	436.4	414.9
60°	1303.6	1169.0	1023.6	872.8	727.3	581.9	441.7	333.9	280.1	247.9	220.9
62.5°	985.9	872.8	775.7	646.4	533.3	409.3	301.8	215.5	167.0	140.1	129.3
65°	711.1	624.9	538.6	457.9	377.2	285.6	204.7	140.1	96.9	80.7	75.4
67.5°	506.5	436.4	371.6	317.8	258.6	204.7	145.5	96.9	75.4	64.7	59.2
70°	355.5	301.8	258.6	210.2	172.3	134.6	113.1	70.1	43.0	48.6	37.7
72.5°	237.0	199.3	177.8	145.5	118.4	96.9	70.1	48.6	48.6	37.7	32.4
75°	129.3	118.4	91.6	70.1	59.2	53.9	21.5	10.9	5.3	16.2	5.3
77.5°	91.6	80.7	70.1	59.2	48.6	37.7	21.5	21.5	16.2	21.5	10.9
80°	59.2	48.6	43.0	43.0	26.8	16.2	10.9	10.9	16.2	5.3	5.3
82.5°	37.7	32.4	26.8	26.8	26.8	16.2	16.2	16.2	16.2	10.9	10.9
85°	21.5	16.2	10.9	10.9	5.3	10.9	0.0	5.3	5.3	0.0	0.0
87.5°	10.9	5.3	5.3	5.3	5.3	0.0	0.0	5.3	0.0	5.3	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6	11528.6
2.5°	11620.2	11641.7	11668.8	11690.3	11738.8	11749.5	11771.2	11792.7	11808.9	11824.9	11830.4
5°	11695.6	11776.5	11851.9	11932.6	12035.1	12105.1	12185.9	12255.9	12326.0	12385.2	12428.2
7.5°	11717.3	11841.1	11954.4	12094.3	12245.1	12374.6	12509.2	12643.8	12783.9	12891.7	12983.2
10°	11760.3	11911.1	12056.6	12223.6	12417.6	12589.9	12756.8	12934.7	13112.5	13263.3	13398.1
12.5°	11835.7	12002.7	12159.0	12342.2	12541.5	12735.3	12918.5	13117.8	13306.5	13473.5	13624.3
15°	11959.7	12115.8	12266.8	12439.1	12638.4	12816.3	12999.4	13193.2	13381.9	13554.2	13694.4
17.5°	12040.4	12185.9	12336.6	12493.0	12659.9	12821.6	12993.9	13166.4	13338.7	13495.0	13624.3
20°	12040.4	12180.5	12293.6	12433.8	12589.9	12730.0	12870.2	13020.9	13171.7	13301.0	13425.0
22.5°	11943.5	12078.1	12164.4	12272.1	12406.7	12525.4	12600.7	12767.7	12880.8	12993.9	13085.5
25°	11717.3	11814.2	11884.3	11959.7	12067.5	12148.2	12212.9	12309.8	12422.9	12466.1	12530.7
27.5°	11307.8	11377.8	11415.5	11431.7	11485.6	11528.6	11539.5	11582.5	11631.1	11641.7	11668.8
30°	10661.4	10666.7	10650.5	10645.2	10618.1	10586.0	10580.4	10575.1	10553.6	10532.1	10537.4
32.5°	9686.2	9659.3	9594.6	9524.7	9454.7	9379.3	9336.0	9282.1	9249.8	9217.6	9179.9
35°	8425.6	8361.0	8269.4	8183.2	8102.5	8043.0	7946.1	7913.8	7881.6	7838.4	7827.7
37.5°	6944.1	6906.4	6820.1	6755.6	6712.6	6685.5	6637.0	6604.8	6604.8	6588.6	6577.8
40°	5414.1	5403.4	5371.0	5387.2	5365.7	5376.4	5371.0	5360.2	5387.2	5387.2	5398.1
42.5°	4061.9	4067.4	4083.6	4094.3	4126.6	4132.0	4159.0	4159.0	4175.2	4191.2	4202.0
45°	3022.1	3043.9	3043.9	3065.4	3097.7	3103.1	3113.7	3119.3	3129.9	3156.9	3167.6
47.5°	2268.0	2273.3	2273.3	2278.8	2289.5	2300.4	2295.0	2300.4	2316.5	2305.7	2316.5
50°	1675.5	1680.8	1664.6	1648.4	1664.6	1664.6	1659.3	1643.1	1659.3	1637.8	1648.4
52.5°	1142.2	1136.7	1120.5	1126.0	1115.1	1109.8	1109.8	1099.0	1099.0	1099.0	1077.4
55°	722.0	722.0	711.1	711.1	705.8	694.9	689.6	684.1	678.8	673.4	673.4
57.5°	404.0	409.3	393.4	387.8	393.4	387.8	377.2	377.2	377.2	361.0	371.6
60°	220.9	215.5	210.2	204.7	199.3	204.7	204.7	194.0	194.0	194.0	199.3
62.5°	118.4	118.4	113.1	113.1	107.8	107.8	118.4	102.4	107.8	102.4	107.8
65°	64.7	80.7	59.2	59.2	75.4	70.1	64.7	64.7	70.1	59.2	64.7
67.5°	70.1	48.6	43.0	48.6	43.0	43.0	43.0	53.9	48.6	37.7	48.6
70°	32.4	37.7	37.7	26.8	43.0	21.5	37.7	21.5	32.4	26.8	32.4
72.5°	32.4	32.4	32.4	21.5	32.4	21.5	26.8	26.8	21.5	21.5	32.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	10.9	5.3	5.3	5.3	5.3	10.9	10.9	10.9	0.0	5.3
80°	10.9	10.9	0.0	5.3	0.0	0.0	5.3	0.0	5.3	0.0	10.9
82.5°	5.3	10.9	5.3	5.3	10.9	10.9	10.9	5.3	5.3	5.3	5.3
85°	0.0	5.3	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	5.3
87.5°	0.0	5.3	0.0	0.0	0.0	0.0	5.3	5.3	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: P249755

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11528.6	11528.6	<i>11528.6</i>	11528.6
2.5°	11835.7	11841.1	<i>11851.9</i>	11846.6
5°	12460.6	12503.8	<i>12525.4</i>	12520.0
7.5°	13047.8	13123.4	<i>13166.4</i>	13166.4
10°	13500.4	13586.6	<i>13651.1</i>	13662.0
12.5°	13742.7	13839.8	<i>13926.1</i>	13904.4
15°	<i>13812.8</i>	<i>13909.9</i>	<i>13995.9</i>	<i>13979.8</i>
17.5°	13732.1	13829.0	<i>13893.7</i>	13882.9
20°	13511.2	13591.9	<i>13656.7</i>	13651.1
22.5°	13166.4	13236.5	<i>13290.4</i>	13284.8
25°	12584.6	12633.1	<i>12676.1</i>	12654.6
27.5°	11690.3	11706.5	<i>11733.3</i>	11701.1
30°	10499.7	10510.4	<i>10521.2</i>	10515.9
32.5°	9163.7	9158.2	<i>9147.5</i>	9136.7
35°	7811.5	7811.5	<i>7816.9</i>	7784.5
37.5°	6583.1	6577.8	<i>6594.0</i>	6577.8
40°	5408.7	5403.4	<i>5424.9</i>	5398.1
42.5°	4218.2	4234.4	<i>4239.7</i>	4239.7
45°	3173.1	3178.5	<i>3183.8</i>	3183.8
47.5°	2316.5	2321.9	<i>2348.9</i>	2316.5
50°	1637.8	1643.1	<i>1648.4</i>	1637.8
52.5°	1082.8	1088.3	<i>1082.8</i>	1066.6
55°	662.6	668.1	<i>668.1</i>	668.1
57.5°	355.5	361.0	<i>361.0</i>	355.5
60°	194.0	188.5	<i>194.0</i>	183.2
62.5°	102.4	113.1	<i>107.8</i>	96.9
65°	64.7	64.7	<i>64.7</i>	75.4
67.5°	53.9	43.0	<i>48.6</i>	37.7
70°	32.4	37.7	<i>37.7</i>	26.8
72.5°	26.8	26.8	<i>26.8</i>	32.4
75°	0.0	0.0	<i>0.0</i>	0.0
77.5°	10.9	10.9	<i>10.9</i>	5.3
80°	5.3	0.0	<i>5.3</i>	0.0
82.5°	5.3	5.3	<i>10.9</i>	5.3
85°	0.0	0.0	<i>0.0</i>	0.0
87.5°	0.0	0.0	<i>0.0</i>	0.0
90°	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)