

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: P249180

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200927 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17165.2 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

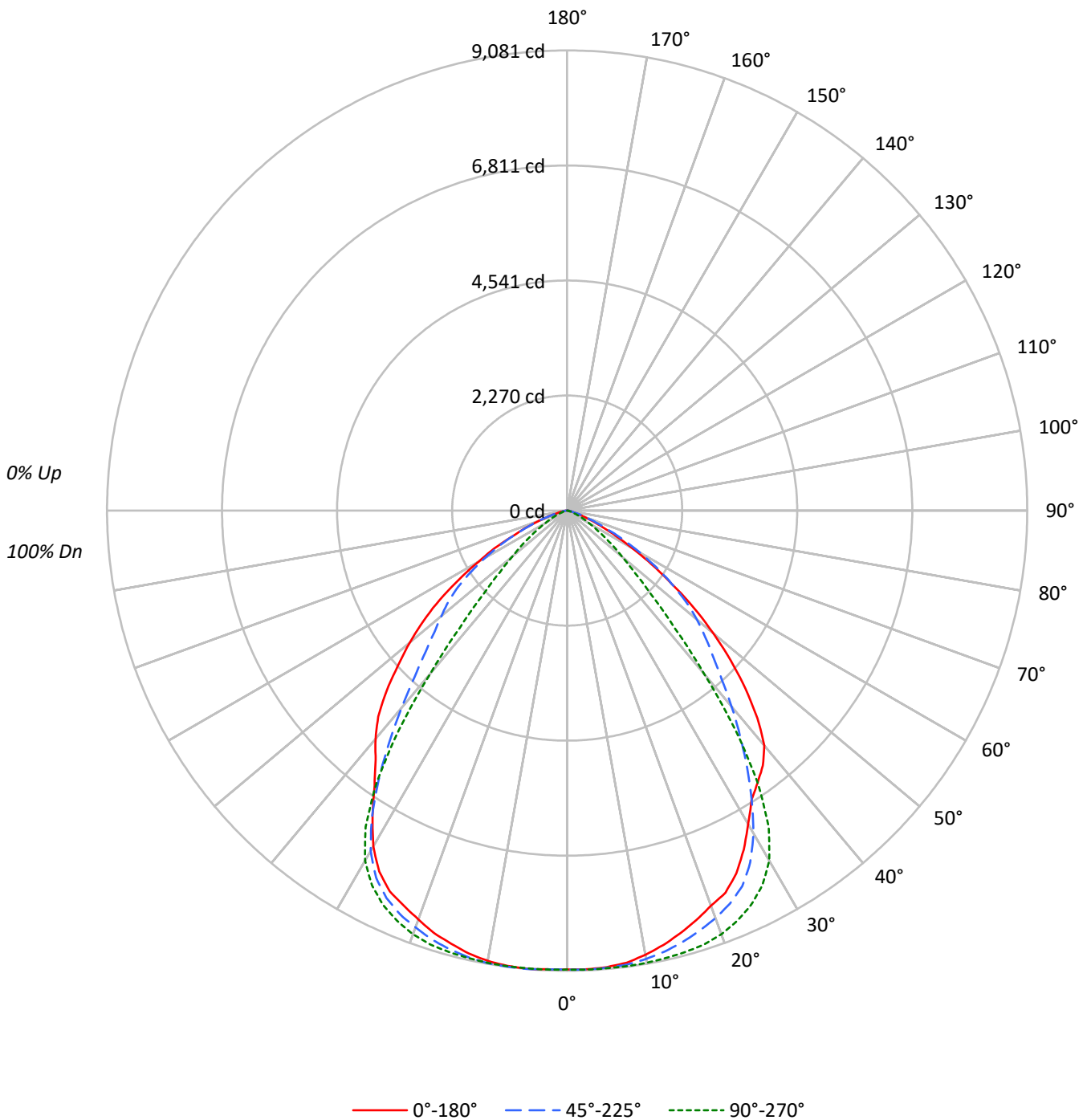
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	864.3	5.0
10°-20°	2510.2	14.6
20°-30°	3809.9	22.2
30°-40°	4001.6	23.3
40°-50°	3000.1	17.5
50°-60°	1924.9	11.2
60°-70°	823.5	4.8
70°-80°	194.5	1.1
80°-90°	36.2	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°	7184.4	41.9
0°-40°	11186.0	65.2
0°-60°	16111.1	93.9
0°-90°	17165.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17165.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9057	9057	9057	9057	9057	
5°	9042	9057	9066	9081	9076	859
15°	8634	8814	9018	8960	8848	2435
25°	7900	8177	8590	8434	8289	3609
35°	6553	6188	6558	6480	6626	4113
45°	4978	4069	2338	3952	5046	3812
55°	2518	2518	870	2625	3067	2284
65°	758	894	277	1152	1172	810
75°	117	136	39	233	228	170
85°	39	24	19	39	54	41
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°	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7
2.5°	9061.6	9071.3	9066.5	9066.5	9061.6	9066.5	9066.5	9076.3	9076.3	9066.5	9061.6
5°	9042.1	9051.9	9051.9	9042.1	9042.1	9066.5	9051.9	9061.6	9061.6	9056.7	9056.7
7.5°	8998.4	8998.4	9017.8	9003.3	9003.3	9017.8	9012.9	9022.7	9032.4	9037.4	9037.4
10°	8901.1	8910.9	8915.7	8915.7	8920.7	8935.2	8944.9	8964.4	8974.0	8983.8	8988.6
12.5°	8779.7	8794.2	8799.1	8794.2	8808.9	8828.2	8852.6	8876.9	8891.6	8910.9	8925.5
15°	8633.7	8633.7	8643.5	8658.1	8667.9	8697.0	8721.3	8750.5	8789.3	8813.7	8838.0
17.5°	8473.4	8483.2	8497.7	8497.7	8517.2	8565.8	8580.4	8624.1	8667.9	8692.1	8740.8
20°	8298.4	8308.0	8322.6	8332.4	8356.7	8395.6	8424.8	8463.6	8512.3	8556.1	8604.6
22.5°	8162.2	8142.9	8152.4	8162.2	8186.6	8220.6	8254.7	8303.2	8351.8	8395.6	8444.2
25°	7899.8	7904.6	7919.2	7928.9	7958.1	7987.3	8026.1	8084.5	8128.2	8176.8	8230.3
27.5°	7544.9	7549.8	7574.1	7574.1	7598.2	7647.0	7671.2	7719.9	7778.2	7826.7	7890.1
30°	7141.4	7151.1	7151.1	7170.5	7185.0	7209.4	7233.8	7282.4	7311.5	7355.2	7442.8
32.5°	6771.9	6781.6	6776.7	6771.9	6757.3	6752.5	6747.5	6757.3	6767.1	6781.6	6815.6
35°	6553.2	6528.8	6509.4	6475.4	6436.5	6387.9	6344.1	6285.8	6232.3	6188.5	6139.9
37.5°	6344.1	6339.2	6310.0	6261.4	6183.6	6096.2	5994.1	5867.7	5741.2	5605.2	5473.9
40°	6052.4	6037.8	6013.5	5945.5	5857.9	5751.0	5614.9	5459.3	5255.1	5046.1	4832.2
42.5°	5556.5	5561.4	5532.2	5478.8	5396.2	5294.0	5153.1	4983.0	4764.2	4516.2	4239.1
45°	4978.0	4978.0	4968.3	4924.6	4866.2	4783.6	4676.6	4535.7	4321.8	4068.9	3772.4
47.5°	4375.2	4380.1	4365.4	4355.8	4331.5	4278.0	4200.2	4093.3	3942.6	3699.4	3402.9
50°	3762.8	3762.8	3787.0	3782.1	3782.1	3762.8	3728.7	3665.5	3534.2	3339.8	3062.7
52.5°	3150.1	3159.9	3174.5	3193.9	3218.2	3257.1	3218.2	3189.0	3106.4	2955.7	2717.5
55°	2518.2	2527.9	2552.2	2586.3	2615.5	2654.3	2664.0	2664.0	2620.2	2518.2	2338.3
57.5°	1978.6	1964.0	1983.5	2012.6	2051.5	2090.5	2119.6	2153.6	2148.8	2080.7	1934.9
60°	1487.6	1492.4	1506.9	1536.2	1565.3	1599.4	1638.3	1667.5	1682.1	1648.0	1555.6
62.5°	1084.2	1084.2	1103.5	1132.6	1147.3	1195.9	1220.2	1234.8	1249.3	1244.5	1186.2
65°	758.5	768.0	777.8	792.4	807.0	836.1	850.7	879.9	889.6	894.5	850.7
67.5°	534.8	520.2	529.9	539.6	554.2	573.6	602.9	602.9	617.4	617.4	588.3
70°	340.3	340.3	345.2	359.7	369.4	374.3	384.1	393.8	408.4	403.4	403.4
72.5°	228.5	223.6	228.5	233.3	238.3	252.8	252.8	257.6	267.4	272.2	252.8
75°	116.7	121.6	131.2	126.4	141.0	131.2	136.1	150.8	145.8	136.1	136.1
77.5°	97.2	97.2	97.2	92.5	102.0	102.0	97.2	107.0	102.0	102.0	97.2
80°	68.1	72.9	68.1	63.1	68.1	63.1	63.1	63.1	63.1	63.1	58.3
82.5°	53.6	43.8	48.6	43.8	48.6	48.6	43.8	38.9	38.9	43.8	38.9
85°	38.9	29.1	34.0	34.0	29.1	29.1	29.1	29.1	29.1	24.3	24.3
87.5°	24.3	14.6	14.6	14.6	19.3	19.3	19.3	14.6	19.3	19.3	9.8
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°	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7
2.5°	9071.3	9066.5	9076.3	9071.3	9071.3	9066.5	9071.3	9066.5	9076.3	9056.7	9061.6
5°	9071.3	9061.6	9066.5	9071.3	9076.3	9066.5	9066.5	9066.5	9076.3	9066.5	9071.3
7.5°	9051.9	9047.0	9061.6	9071.3	9066.5	9061.6	9071.3	9066.5	9076.3	9071.3	9081.0
10°	9012.9	9017.8	9027.6	9042.1	9047.0	9051.9	9061.6	9061.6	9076.3	9056.7	9066.5
12.5°	8954.7	8974.0	8998.4	9008.1	9027.6	9027.6	9037.4	9042.1	9051.9	9047.0	9061.6
15°	8881.8	8906.1	8935.2	8959.5	8983.8	8998.4	9012.9	9017.8	9032.4	9017.8	9022.7
17.5°	8794.2	8823.4	8867.1	8896.3	8935.2	8949.8	8969.2	8979.0	8993.6	8983.8	8988.6
20°	8672.6	8706.8	8755.3	8799.1	8823.4	8857.4	8881.8	8896.3	8906.1	8896.3	8901.1
22.5°	8502.5	8551.2	8614.4	8648.3	8697.0	8726.2	8731.0	8765.1	8789.3	8765.1	8774.8
25°	8303.2	8351.8	8400.5	8473.4	8517.2	8551.2	8585.2	8590.1	8614.4	8609.5	8604.6
27.5°	7972.6	8035.9	8118.4	8176.8	8235.1	8288.7	8327.6	8337.2	8361.6	8351.8	8356.7
30°	7520.5	7588.7	7666.4	7758.8	7841.4	7894.8	7943.5	7977.5	8001.8	7987.3	7982.3
32.5°	6878.9	6946.9	7029.6	7121.9	7219.2	7296.9	7355.2	7399.0	7428.2	7418.5	7394.2
35°	6144.9	6164.2	6217.8	6290.7	6373.2	6455.9	6509.4	6558.0	6591.9	6601.7	6601.7
37.5°	5391.3	5328.1	5289.2	5289.2	5337.8	5371.8	5420.5	5449.6	5503.0	5522.5	5537.1
40°	4662.0	4516.2	4380.1	4278.0	4210.0	4205.1	4205.1	4219.7	4268.2	4331.5	4389.9
42.5°	4010.6	3777.3	3568.3	3378.6	3242.6	3164.7	3130.8	3135.6	3174.5	3232.8	3330.0
45°	3490.4	3198.8	2936.2	2707.8	2523.0	2401.4	2343.2	2338.3	2367.5	2435.5	2542.5
47.5°	3087.0	2775.8	2479.3	2216.7	2017.5	1886.2	1818.1	1798.8	1818.1	1881.3	2007.8
50°	2751.5	2430.8	2124.5	1852.2	1638.3	1502.2	1439.0	1414.7	1439.0	1492.4	1618.8
52.5°	2440.4	2109.8	1823.1	1560.5	1332.0	1215.3	1147.3	1132.6	1147.3	1210.4	1312.6
55°	2080.7	1798.8	1516.7	1254.3	1054.9	938.2	884.7	870.2	884.7	943.2	1050.1
57.5°	1725.9	1482.8	1234.8	996.5	826.4	724.3	675.8	656.2	690.3	729.1	855.6
60°	1395.1	1200.8	991.7	782.7	641.7	549.3	510.4	505.6	515.2	564.0	651.4
62.5°	1093.8	933.4	768.0	597.9	481.3	442.4	393.8	388.9	398.6	427.7	495.9
65°	787.6	685.5	559.0	437.5	345.2	291.7	272.2	277.2	286.8	306.3	369.4
67.5°	549.3	476.4	388.9	306.3	238.3	213.9	194.5	189.6	194.5	228.5	262.6
70°	369.4	325.7	262.6	233.3	165.4	131.2	136.1	121.6	141.0	141.0	170.1
72.5°	243.0	213.9	174.9	136.1	116.7	92.5	92.5	87.5	97.2	102.0	126.4
75°	126.4	97.2	97.2	68.1	48.6	24.3	43.8	38.9	34.0	38.9	48.6
77.5°	87.5	72.9	68.1	53.6	48.6	38.9	38.9	38.9	38.9	43.8	48.6
80°	53.6	53.6	38.9	34.0	29.1	24.3	29.1	29.1	29.1	29.1	34.0
82.5°	34.0	29.1	29.1	24.3	24.3	19.3	19.3	19.3	19.3	19.3	29.1
85°	29.1	19.3	19.3	14.6	19.3	34.0	14.6	19.3	19.3	19.3	14.6
87.5°	9.8	14.6	14.6	14.6	9.8	4.8	9.8	14.6	14.6	24.3	19.3
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°	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7	9056.7
2.5°	9071.3	9076.3	9076.3	9071.3	9071.3	9061.6	9081.0	9066.5	9071.3	9090.8	9076.3
5°	9081.0	9085.8	9085.8	9081.0	9081.0	9081.0	9085.8	9085.8	9081.0	9076.3	9085.8
7.5°	9100.5	9095.6	9095.6	9085.8	9085.8	9076.3	9085.8	9071.3	9081.0	9071.3	9085.8
10°	9076.3	9081.0	9076.3	9071.3	9071.3	9066.5	9066.5	9051.9	9056.7	9042.1	9051.9
12.5°	9061.6	9056.7	9056.7	9047.0	9037.4	9027.6	9022.7	9008.1	9008.1	8974.0	8988.6
15°	9022.7	9027.6	9012.9	8993.6	8983.8	8959.5	8949.8	8930.2	8910.9	8886.6	8891.6
17.5°	8988.6	8974.0	8954.7	8935.2	8896.3	8876.9	8857.4	8828.2	8818.4	8789.3	8779.7
20°	8886.6	8876.9	8852.6	8818.4	8794.2	8750.5	8731.0	8701.9	8677.5	8648.3	8633.7
22.5°	8755.3	8745.5	8716.4	8682.4	8643.5	8624.1	8604.6	8551.2	8526.8	8497.7	8492.7
25°	8590.1	8575.4	8546.3	8507.4	8487.9	8434.5	8415.0	8376.1	8366.4	8337.2	8332.4
27.5°	8337.2	8317.8	8283.8	8235.1	8201.1	8167.0	8147.7	8118.4	8108.8	8079.5	8074.8
30°	7958.1	7933.7	7865.7	7846.3	7787.9	7753.8	7753.8	7715.0	7719.9	7700.4	7700.4
32.5°	7360.1	7321.3	7267.7	7228.8	7189.9	7170.5	7170.5	7155.9	7165.7	7165.7	7175.4
35°	6567.8	6514.3	6485.1	6460.8	6460.8	6480.1	6538.5	6553.2	6582.4	6606.6	6626.1
37.5°	5551.7	5546.8	5580.9	5610.0	5682.9	5765.6	5867.7	5955.2	6037.8	6096.2	6154.4
40°	4453.0	4574.6	4671.8	4807.9	4919.6	5080.2	5264.9	5415.5	5556.5	5658.6	5765.6
42.5°	3475.8	3631.4	3835.7	4034.9	4234.3	4453.0	4696.1	4905.1	5089.8	5230.8	5342.6
45°	2707.8	2921.6	3169.7	3422.5	3680.1	3952.4	4205.1	4419.0	4613.5	4759.3	4871.1
47.5°	2182.7	2416.2	2698.0	2975.2	3266.9	3553.6	3835.7	4020.4	4180.7	4297.4	4399.7
50°	1803.5	2051.5	2348.1	2664.0	2955.7	3242.6	3485.6	3665.5	3796.8	3898.8	3962.0
52.5°	1506.9	1769.5	2085.5	2401.4	2693.1	2955.7	3174.5	3310.6	3417.5	3490.4	3548.7
55°	1244.5	1497.4	1793.9	2090.5	2377.2	2625.1	2805.0	2907.1	2989.7	3033.5	3067.4
57.5°	1016.1	1249.3	1521.6	1793.9	2041.8	2246.1	2386.9	2489.1	2527.9	2562.0	2557.0
60°	797.3	1016.1	1263.9	1497.4	1711.2	1876.4	1978.6	2036.9	2066.1	2080.7	2070.9
62.5°	627.1	826.4	1016.1	1220.2	1375.8	1516.7	1614.0	1614.0	1628.6	1633.4	1648.0
65°	466.6	617.4	782.7	933.4	1059.8	1152.1	1205.7	1220.2	1239.6	1234.8	1225.0
67.5°	345.2	457.0	578.5	690.3	777.8	836.1	875.0	909.1	904.3	894.5	889.6
70°	238.3	311.2	418.2	486.1	549.3	607.7	617.4	622.2	627.1	632.0	622.2
72.5°	165.4	218.7	277.2	335.5	374.3	398.6	423.0	427.7	427.7	427.7	423.0
75°	82.7	111.8	165.4	189.6	223.6	233.3	252.8	252.8	267.4	247.8	243.0
77.5°	72.9	87.5	116.7	136.1	150.8	165.4	170.1	184.7	179.9	170.1	174.9
80°	43.8	53.6	72.9	82.7	102.0	107.0	111.8	116.7	111.8	116.7	116.7
82.5°	34.0	38.9	48.6	48.6	63.1	63.1	68.1	68.1	72.9	72.9	72.9
85°	19.3	34.0	29.1	58.3	38.9	38.9	48.6	58.3	48.6	48.6	58.3
87.5°	19.3	19.3	14.6	19.3	19.3	19.3	24.3	29.1	29.1	34.0	29.1
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: P249180

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9056.7	9056.7	9056.7	9056.7
2.5°	9071.3	9081.0	9066.5	9061.6
5°	9085.8	9085.8	9076.3	9076.3
7.5°	9085.8	9085.8	9071.3	9061.6
10°	9047.0	9047.0	9032.4	9022.7
12.5°	8974.0	8974.0	8969.2	8954.7
15°	8881.8	8881.8	8862.2	8847.7
17.5°	8755.3	8765.1	8740.8	8740.8
20°	8619.2	8614.4	8595.0	8585.2
22.5°	8478.2	8468.6	8463.6	8434.5
25°	8327.6	8317.8	8303.2	8288.7
27.5°	8070.0	8065.0	8050.4	8031.0
30°	7676.1	7671.2	7651.8	7651.8
32.5°	7165.7	7160.7	7141.4	7146.2
35°	6635.7	6655.3	6645.5	6626.1
37.5°	6193.3	6208.0	6217.8	6208.0
40°	5823.9	5867.7	5872.5	5882.3
42.5°	5430.2	5488.4	5508.0	5517.6
45°	4958.6	5012.1	5055.9	5046.1
47.5°	4477.3	4516.2	4555.0	4525.9
50°	4015.5	4039.8	4054.4	4054.4
52.5°	3578.1	3578.1	3573.1	3578.1
55°	3077.2	3077.2	3057.9	3067.4
57.5°	2552.2	2562.0	2547.3	2523.0
60°	2066.1	2041.8	2032.0	2017.5
62.5°	1609.2	1609.2	1575.1	1618.8
65°	1205.7	1191.0	1176.4	1171.6
67.5°	875.0	870.2	855.6	850.7
70°	617.4	597.9	593.1	583.3
72.5°	413.2	413.2	403.4	403.4
75°	252.8	228.5	223.6	228.5
77.5°	174.9	170.1	170.1	165.4
80°	116.7	111.8	121.6	107.0
82.5°	72.9	77.7	72.9	77.7
85°	48.6	58.3	53.6	53.6
87.5°	29.1	29.1	29.1	29.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)