

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: P248559

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248559
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: LD8B200D010 ER8B200830 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20799.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

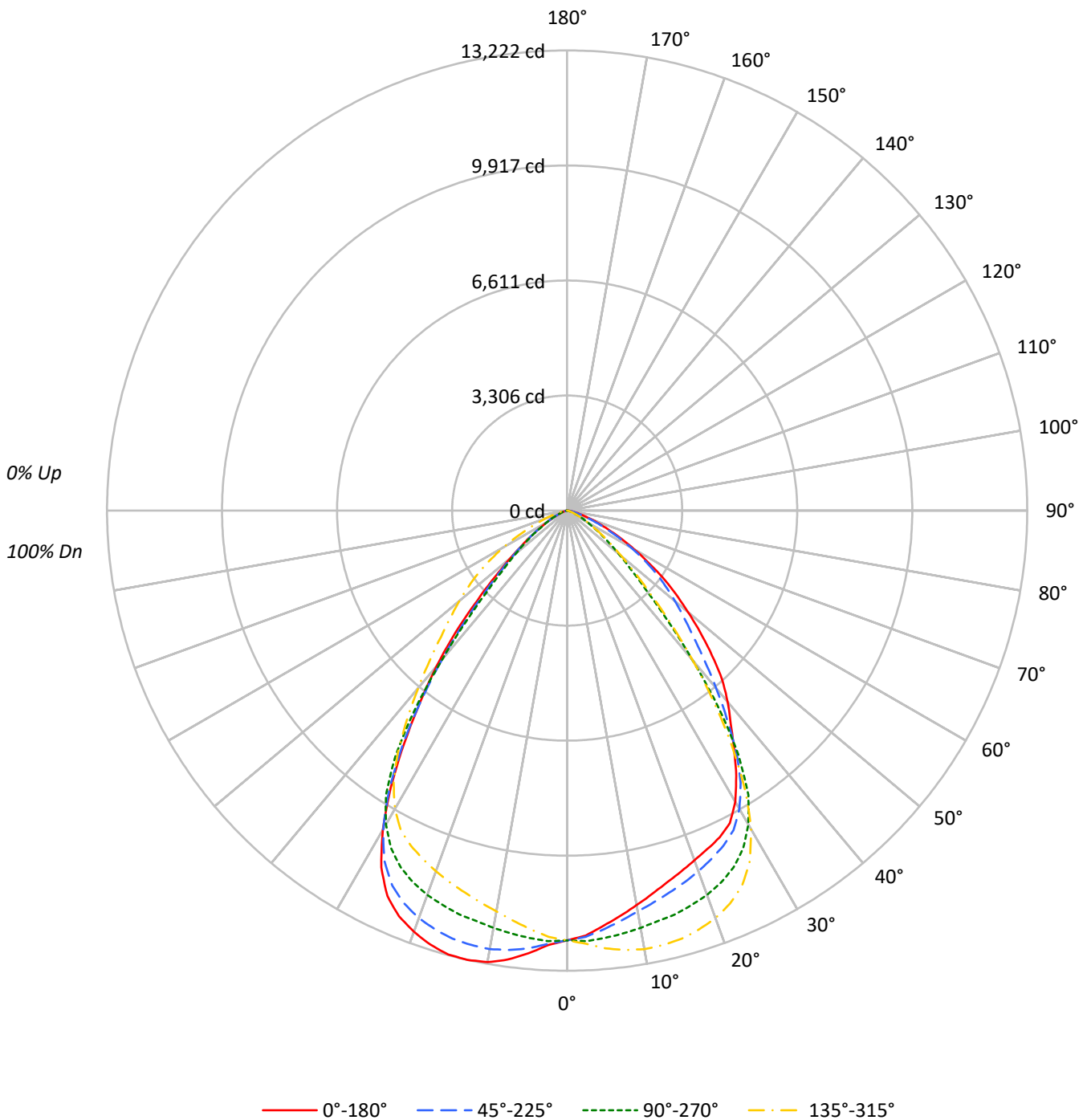
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	380758	380758	380758	380758
5°	370644	381652	395278	381652
10°	360392	381155	412492	381155
15°	353192	383415	421523	383415
20°	350786	385610	422606	385610
25°	352629	384833	415812	384833
30°	343911	370748	377410	370748
35°	314574	323420	306857	323420
40°	288810	224975	234934	224975
45°	256618	137247	158807	137247
50°	217211	91681	101813	91681
55°	179902	62557	66121	62557
60°	137209	41648	42011	41648
65°	97218	25946	23757	25946
70°	70117	17383	15778	17383
75°	44524	8638	7184	8638
80°	31076	6428	5327	6428
85°	27738	0	2123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1175.3	5.7
10°-20°	3403.4	16.4
20°-30°	5153.4	24.8
30°-40°	5165.0	24.8
40°-50°	3243.3	15.6
50°-60°	1728.4	8.3
60°-70°	710.7	3.4
70°-80°	187.8	0.9
80°-90°	31.8	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°	9732.0	46.8
0°-40°	14897.0	71.6
0°-60°	19868.7	95.5
0°-90°	20799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20799.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12348	12348	12348	12348	12348	
5°	11974	12330	12770	12330	11974	###
15°	11064	12010	13204	12010	11064	3129
25°	10364	11311	12221	11311	10364	4753
35°	8356	8592	8152	8592	8356	5235
45°	5884	3147	3642	3147	5884	4526
55°	3346	1164	1230	1164	3346	2983
65°	1332	356	326	356	1332	1382
75°	374	72	60	72	374	423
85°	78	0	6	0	78	86
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°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12221.1	12209.0	12203.0	12215.2	12221.1	12245.2	12239.3	12251.2	12251.2	12257.4	12269.3
5°	11974.0	11967.8	11974.0	11974.0	11998.0	12022.1	12016.2	12034.3	12046.2	12076.5	12088.4
7.5°	11744.9	11744.9	11738.7	11762.8	11774.9	11811.2	11805.0	11835.2	11853.4	11883.4	11925.6
10°	11509.7	11509.7	11515.6	11533.7	11539.9	11594.0	11594.0	11636.2	11660.3	11690.6	11744.9
12.5°	11280.6	11280.6	11316.8	11304.7	11328.7	11370.9	11389.0	11431.2	11467.5	11527.8	11582.1
15°	11063.5	11063.5	11075.6	11105.6	11123.8	11178.1	11208.1	11256.5	11298.7	11359.0	11437.4
17.5°	10876.6	10870.6	10876.6	10912.8	10949.0	10997.2	11021.3	11081.6	11123.8	11202.2	11274.6
20°	10689.7	10701.9	10701.9	10731.9	10756.0	10816.3	10840.4	10906.9	10955.0	11027.2	11111.8
22.5°	10526.9	10521.0	10521.0	10563.2	10581.3	10635.4	10659.4	10719.7	10774.1	10834.4	10912.8
25°	10364.1	10352.0	10376.3	10382.2	10394.2	10454.5	10472.6	10514.8	10569.1	10623.5	10701.9
27.5°	10122.9	10111.0	10117.0	10141.0	10159.1	10207.3	10219.4	10261.6	10303.8	10352.0	10418.5
30°	9658.6	9646.7	9640.7	9682.9	9701.0	9737.0	9755.1	9827.6	9839.5	9893.9	9942.0
32.5°	9043.6	9037.7	9049.8	9085.8	9103.9	9152.3	9176.4	9218.6	9248.6	9278.9	9327.0
35°	8356.5	8344.3	8356.5	8392.7	8392.7	8434.9	8453.0	8470.9	8464.9	8470.9	8459.0
37.5°	7717.4	7711.2	7717.4	7735.3	7717.4	7735.3	7717.4	7681.2	7614.9	7542.5	7470.0
40°	7174.7	7180.7	7144.7	7168.7	7102.2	7090.3	7024.1	6933.5	6801.0	6656.3	6451.3
42.5°	6596.0	6577.9	6553.8	6565.7	6511.6	6469.2	6360.7	6246.3	6077.3	5836.3	5588.9
45°	5884.5	5878.5	5866.4	5860.4	5824.2	5782.0	5691.4	5558.9	5372.0	5124.9	4829.3
47.5°	5191.1	5173.0	5173.0	5179.0	5136.8	5130.8	5058.4	4943.9	4781.2	4539.9	4232.5
50°	4527.8	4521.8	4534.0	4558.1	4527.8	4515.9	4467.7	4389.3	4244.6	4039.6	3750.0
52.5°	3930.9	3925.0	3937.1	3967.2	3955.0	3967.2	3919.0	3858.7	3762.2	3563.2	3310.0
55°	3346.3	3346.3	3346.3	3382.2	3382.2	3382.2	3358.2	3322.2	3231.6	3086.9	2851.9
57.5°	2737.3	2743.2	2779.5	2785.4	2779.5	2791.6	2785.4	2749.2	2689.1	2586.6	2405.7
60°	2224.8	2224.8	2242.9	2261.0	2254.8	2261.0	2261.0	2242.9	2182.6	2098.2	1953.6
62.5°	1760.5	1778.6	1766.4	1778.6	1802.7	1778.6	1766.4	1754.5	1712.3	1658.0	1537.4
65°	1332.4	1344.6	1344.6	1350.5	1338.4	1344.6	1320.5	1302.4	1278.3	1218.0	1139.6
67.5°	1013.0	1013.0	1013.0	1013.0	1006.8	1000.9	994.9	976.8	934.6	910.5	825.9
70°	777.7	741.5	741.5	741.5	741.5	747.7	729.6	705.5	693.4	651.2	590.9
72.5°	518.4	530.6	518.4	518.4	506.5	512.5	488.4	476.2	464.3	440.2	404.0
75°	373.7	343.7	355.6	361.8	343.7	355.6	331.5	307.5	307.5	289.4	271.2
77.5°	241.2	235.3	241.2	247.2	241.2	235.3	223.1	210.9	210.9	205.0	186.9
80°	175.0	168.8	168.8	168.8	162.8	168.8	156.8	156.8	144.7	138.7	126.6
82.5°	114.7	114.7	108.4	114.7	108.4	114.7	96.5	96.5	96.5	90.3	78.4
85°	78.4	66.3	66.3	72.5	60.3	72.5	66.3	60.3	54.3	54.3	48.1
87.5°	36.2	42.2	36.2	42.2	36.2	36.2	42.2	36.2	36.2	24.1	24.1
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°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12287.4	12293.4	12293.4	12317.7	12329.6	12335.5	12335.5	12383.9	12365.8	12378.0	12389.9
5°	12112.7	12148.7	12160.8	12160.8	12227.1	12251.2	12275.2	12329.6	12335.5	12371.8	12414.0
7.5°	11943.7	11985.9	12010.2	12064.3	12106.5	12148.7	12221.1	12257.4	12293.4	12341.8	12395.9
10°	11780.9	11829.3	11877.4	11919.6	11985.9	12040.2	12088.4	12172.8	12215.2	12281.4	12353.7
12.5°	11624.3	11690.6	11732.8	11805.0	11877.4	11925.6	11998.0	12076.5	12142.7	12209.0	12293.4
15°	11485.6	11564.0	11612.1	11690.6	11769.0	11835.2	11913.7	12010.2	12058.3	12136.8	12215.2
17.5°	11334.7	11419.3	11479.6	11551.8	11648.4	11720.6	11787.1	11883.4	11943.7	12028.1	12118.7
20°	11178.1	11262.5	11334.7	11407.2	11503.7	11575.9	11654.3	11750.9	11817.1	11901.5	11974.0
22.5°	10991.2	11069.7	11147.8	11232.2	11328.7	11389.0	11479.6	11564.0	11636.2	11714.6	11787.1
25°	10750.0	10846.6	10906.9	10985.0	11063.5	11129.7	11226.2	11310.6	11370.9	11443.4	11509.7
27.5°	10466.6	10539.1	10587.2	10653.5	10731.9	10792.2	10864.4	10949.0	11009.4	11075.6	11123.8
30°	9984.2	10050.7	10092.9	10141.0	10219.4	10273.8	10334.1	10412.3	10454.5	10502.8	10545.0
32.5°	9351.1	9405.5	9429.5	9465.8	9520.1	9574.2	9622.6	9688.9	9707.0	9737.0	9737.0
35°	8434.9	8446.8	8440.8	8453.0	8477.1	8507.1	8549.3	8591.5	8615.6	8615.6	8597.7
37.5°	7361.6	7289.4	7210.9	7150.6	7132.5	7120.4	7144.7	7162.5	7186.9	7198.8	7168.7
40°	6246.3	6083.5	5908.6	5751.7	5643.3	5595.1	5577.0	5588.9	5588.9	5631.1	5631.1
42.5°	5287.7	5034.3	4775.2	4539.9	4383.1	4262.7	4208.4	4208.4	4214.3	4244.6	4262.7
45°	4491.8	4172.2	3870.6	3611.5	3394.4	3237.6	3165.3	3147.2	3141.3	3153.2	3195.4
47.5°	3882.8	3551.2	3237.6	2918.2	2689.1	2532.3	2466.0	2441.7	2417.6	2441.7	2447.9
50°	3406.6	3062.9	2731.3	2411.7	2170.5	2031.7	1947.4	1911.1	1905.2	1905.2	1917.3
52.5°	2972.3	2652.9	2321.3	1995.7	1742.4	1609.8	1531.4	1513.3	1489.2	1513.3	1513.3
55°	2562.3	2242.9	1917.3	1609.8	1398.7	1260.2	1187.7	1163.6	1151.5	1169.6	1169.6
57.5°	2116.4	1844.9	1543.6	1266.1	1055.2	958.7	904.3	874.3	868.1	880.2	868.1
60°	1736.4	1507.4	1248.0	994.9	832.1	729.6	687.4	675.3	663.1	675.3	675.3
62.5°	1374.6	1181.8	970.6	777.7	639.0	566.8	518.4	518.4	512.5	512.5	518.4
65°	1019.0	868.1	717.4	554.6	446.2	391.9	355.6	355.6	349.7	355.6	349.7
67.5°	741.5	639.0	518.4	404.0	319.6	289.4	265.3	247.2	259.3	247.2	241.2
70°	542.7	458.1	373.7	307.5	247.2	217.1	199.0	192.8	180.9	180.9	180.9
72.5°	361.8	307.5	253.1	199.0	162.8	132.5	126.6	114.7	102.5	108.4	120.6
75°	241.2	205.0	180.9	144.7	108.4	108.4	72.5	72.5	60.3	72.5	54.3
77.5°	168.8	138.7	108.4	90.3	72.5	66.3	48.1	48.1	42.2	42.2	42.2
80°	120.6	102.5	78.4	66.3	48.1	48.1	42.2	36.2	30.0	30.0	36.2
82.5°	72.5	54.3	54.3	48.1	30.0	24.1	18.1	24.1	12.2	12.2	12.2
85°	42.2	36.2	30.0	18.1	12.2	12.2	6.0	0.0	6.0	6.0	0.0
87.5°	24.1	12.2	12.2	6.0	0.0	6.0	6.0	0.0	0.0	0.0	12.2
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°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12420.2	12414.0	12426.1	12426.1	12462.4	12456.2	12474.3	12474.3	12462.4	12468.3	12492.4
5°	12462.4	12480.5	12516.5	12546.7	12600.8	12625.2	12655.2	12685.5	12691.4	12709.5	12727.6
7.5°	12462.4	12522.7	12564.9	12619.0	12691.4	12733.6	12799.9	12854.2	12878.3	12908.3	12944.5
10°	12438.0	12498.3	12576.8	12637.1	12727.6	12793.9	12860.2	12944.5	12980.8	13028.9	13077.3
12.5°	12389.9	12456.2	12540.5	12619.0	12721.4	12781.7	12866.1	12944.5	12998.9	13065.2	13119.5
15°	12317.7	12395.9	12474.3	12552.7	12661.1	12733.6	12812.0	12902.4	12956.7	13028.9	13077.3
17.5°	12203.0	12287.4	12359.9	12432.1	12534.6	12619.0	12691.4	12775.8	12830.1	12890.4	12956.7
20°	12064.3	12142.7	12221.1	12281.4	12383.9	12456.2	12534.6	12613.0	12655.2	12667.3	12769.8
22.5°	11889.6	11943.7	12004.0	12100.5	12160.8	12227.1	12299.6	12371.8	12414.0	12480.5	12516.5
25°	11600.0	11654.3	11720.6	11762.8	11835.2	11889.6	11961.8	12040.2	12064.3	12112.7	12148.7
27.5°	11196.2	11226.2	11256.5	11292.5	11334.7	11365.0	11407.2	11443.4	11467.5	11491.5	11515.6
30°	10556.9	10556.9	10556.9	10532.9	10551.0	10569.1	10575.1	10569.1	10569.1	10563.2	10563.2
32.5°	9712.9	9664.8	9610.4	9562.3	9544.2	9520.1	9508.0	9489.8	9459.8	9441.7	9447.6
35°	8573.4	8464.9	8398.7	8338.4	8290.2	8254.0	8235.9	8217.7	8211.8	8187.7	8163.4
37.5°	7150.6	7072.2	7024.1	6987.8	6945.6	6909.4	6915.4	6921.6	6939.4	6927.5	6933.5
40°	5643.3	5625.2	5643.3	5601.1	5588.9	5601.1	5631.1	5673.6	5697.6	5721.7	5763.9
42.5°	4292.8	4322.8	4365.2	4365.2	4383.1	4407.4	4443.4	4509.9	4545.9	4588.1	4636.5
45°	3231.6	3267.8	3322.2	3340.1	3352.2	3382.2	3424.7	3478.8	3502.9	3539.1	3581.3
47.5°	2490.1	2514.2	2544.2	2574.5	2604.5	2616.7	2658.8	2658.8	2689.1	2713.2	2725.1
50°	1941.4	1965.5	1989.5	2007.7	2019.8	2037.9	2049.8	2068.0	2073.9	2086.1	2092.0
52.5°	1519.3	1549.5	1549.5	1561.5	1579.6	1597.7	1591.7	1597.7	1603.6	1603.6	1621.8
55°	1187.7	1187.7	1205.8	1205.8	1218.0	1211.8	1218.0	1218.0	1218.0	1218.0	1224.0
57.5°	886.2	892.4	910.5	898.4	892.4	904.3	892.4	904.3	898.4	910.5	892.4
60°	681.2	681.2	687.4	687.4	693.4	693.4	693.4	687.4	687.4	681.2	681.2
62.5°	512.5	518.4	524.6	518.4	518.4	518.4	512.5	512.5	506.5	500.3	500.3
65°	343.7	337.8	349.7	337.8	343.7	343.7	337.8	343.7	325.6	331.5	325.6
67.5°	247.2	241.2	235.3	241.2	235.3	229.1	229.1	235.3	241.2	223.1	223.1
70°	162.8	168.8	162.8	168.8	175.0	175.0	168.8	162.8	168.8	156.8	162.8
72.5°	102.5	102.5	102.5	102.5	102.5	108.4	108.4	108.4	96.5	96.5	90.3
75°	48.1	66.3	54.3	48.1	66.3	66.3	60.3	60.3	54.3	54.3	54.3
77.5°	48.1	36.2	36.2	36.2	36.2	36.2	36.2	36.2	30.0	36.2	30.0
80°	24.1	24.1	24.1	18.1	24.1	24.1	30.0	24.1	24.1	18.1	30.0
82.5°	12.2	12.2	12.2	0.0	6.0	12.2	12.2	6.0	12.2	12.2	6.0
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: P248559

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12486.4	12480.5	12486.4	12492.4	12486.4	12480.5	12486.4	12492.4	12468.3	12462.4	12474.3
5°	12751.7	12751.7	12763.6	12769.8	12763.6	12751.7	12751.7	12727.6	12709.5	12691.4	12685.5
7.5°	12980.8	12992.9	13004.8	13010.8	13004.8	12992.9	12980.8	12944.5	12908.3	12878.3	12854.2
10°	13119.5	13137.6	13161.7	13173.6	13161.7	13137.6	13119.5	13077.3	13028.9	12980.8	12944.5
12.5°	13179.8	13197.9	13227.9	13222.0	13227.9	13197.9	13179.8	13119.5	13065.2	12998.9	12944.5
15°	13137.6	13161.7	13191.7	13203.9	13191.7	13161.7	13137.6	13077.3	13028.9	12956.7	12902.4
17.5°	13004.8	13041.1	13059.2	13077.3	13059.2	13041.1	13004.8	12956.7	12890.4	12830.1	12775.8
20°	12823.9	12848.3	12872.3	12878.3	12872.3	12848.3	12823.9	12769.8	12667.3	12655.2	12613.0
22.5°	12564.9	12583.0	12637.1	12619.0	12637.1	12583.0	12564.9	12516.5	12480.5	12414.0	12371.8
25°	12190.9	12209.0	12215.2	12221.1	12215.2	12209.0	12190.9	12148.7	12112.7	12064.3	12040.2
27.5°	11545.9	11545.9	11557.8	11564.0	11557.8	11545.9	11545.9	11515.6	11491.5	11467.5	11443.4
30°	10569.1	10569.1	10569.1	10599.4	10569.1	10569.1	10569.1	10563.2	10563.2	10569.1	10569.1
32.5°	9441.7	9429.5	9417.6	9429.5	9417.6	9429.5	9441.7	9447.6	9441.7	9459.8	9489.8
35°	8163.4	8157.4	8175.6	8151.5	8175.6	8157.4	8163.4	8163.4	8187.7	8211.8	8217.7
37.5°	6939.4	6927.5	6951.6	6927.5	6951.6	6927.5	6939.4	6933.5	6927.5	6939.4	6921.6
40°	5776.0	5788.0	5788.0	5836.3	5788.0	5788.0	5776.0	5763.9	5721.7	5697.6	5673.6
42.5°	4660.5	4696.8	4684.6	4720.8	4684.6	4696.8	4660.5	4636.5	4588.1	4545.9	4509.9
45°	3605.3	3629.7	3629.7	3641.6	3629.7	3629.7	3605.3	3581.3	3539.1	3502.9	3478.8
47.5°	2767.3	2767.3	2767.3	2773.5	2767.3	2767.3	2767.3	2725.1	2713.2	2689.1	2658.8
50°	2104.2	2110.1	2116.4	2122.3	2116.4	2110.1	2104.2	2092.0	2086.1	2073.9	2068.0
52.5°	1615.8	1621.8	1609.8	1621.8	1609.8	1621.8	1615.8	1621.8	1603.6	1603.6	1597.7
55°	1224.0	1218.0	1224.0	1229.9	1224.0	1218.0	1224.0	1224.0	1218.0	1218.0	1218.0
57.5°	898.4	886.2	886.2	886.2	886.2	886.2	898.4	892.4	910.5	898.4	904.3
60°	669.3	675.3	675.3	681.2	675.3	675.3	669.3	681.2	681.2	687.4	687.4
62.5°	494.3	512.5	500.3	512.5	500.3	512.5	494.3	500.3	500.3	506.5	512.5
65°	319.6	319.6	319.6	325.6	319.6	319.6	319.6	325.6	331.5	325.6	343.7
67.5°	217.1	223.1	235.3	229.1	235.3	223.1	217.1	223.1	223.1	241.2	235.3
70°	175.0	156.8	156.8	175.0	156.8	156.8	175.0	162.8	156.8	168.8	162.8
72.5°	102.5	90.3	102.5	102.5	102.5	90.3	102.5	90.3	96.5	96.5	108.4
75°	54.3	48.1	42.2	60.3	42.2	48.1	54.3	54.3	54.3	54.3	60.3
77.5°	36.2	30.0	42.2	42.2	42.2	30.0	36.2	30.0	36.2	30.0	36.2
80°	18.1	24.1	18.1	30.0	18.1	24.1	18.1	30.0	18.1	24.1	24.1
82.5°	6.0	12.2	12.2	12.2	12.2	12.2	6.0	6.0	12.2	12.2	6.0
85°	0.0	12.2	6.0	6.0	6.0	12.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.0	0.0	6.0	0.0	0.0	6.0	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: P248559

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12474.3	12456.2	12462.4	12426.1	12426.1	12414.0	12420.2	12389.9	12378.0	12365.8	12383.9
5°	12655.2	12625.2	12600.8	12546.7	12516.5	12480.5	12462.4	12414.0	12371.8	12335.5	12329.6
7.5°	12799.9	12733.6	12691.4	12619.0	12564.9	12522.7	12462.4	12395.9	12341.8	12293.4	12257.4
10°	12860.2	12793.9	12727.6	12637.1	12576.8	12498.3	12438.0	12353.7	12281.4	12215.2	12172.8
12.5°	12866.1	12781.7	12721.4	12619.0	12540.5	12456.2	12389.9	12293.4	12209.0	12142.7	12076.5
15°	12812.0	12733.6	12661.1	12552.7	12474.3	12395.9	12317.7	12215.2	12136.8	12058.3	12010.2
17.5°	12691.4	12619.0	12534.6	12432.1	12359.9	12287.4	12203.0	12118.7	12028.1	11943.7	11883.4
20°	12534.6	12456.2	12383.9	12281.4	12221.1	12142.7	12064.3	11974.0	11901.5	11817.1	11750.9
22.5°	12299.6	12227.1	12160.8	12100.5	12004.0	11943.7	11889.6	11787.1	11714.6	11636.2	11564.0
25°	11961.8	11889.6	11835.2	11762.8	11720.6	11654.3	11600.0	11509.7	11443.4	11370.9	11310.6
27.5°	11407.2	11365.0	11334.7	11292.5	11256.5	11226.2	11196.2	11123.8	11075.6	11009.4	10949.0
30°	10575.1	10569.1	10551.0	10532.9	10556.9	10556.9	10556.9	10545.0	10502.8	10454.5	10412.3
32.5°	9508.0	9520.1	9544.2	9562.3	9610.4	9664.8	9712.9	9737.0	9737.0	9707.0	9688.9
35°	8235.9	8254.0	8290.2	8338.4	8398.7	8464.9	8573.4	8597.7	8615.6	8615.6	8591.5
37.5°	6915.4	6909.4	6945.6	6987.8	7024.1	7072.2	7150.6	7168.7	7198.8	7186.9	7162.5
40°	5631.1	5601.1	5588.9	5601.1	5643.3	5625.2	5643.3	5631.1	5631.1	5588.9	5588.9
42.5°	4443.4	4407.4	4383.1	4365.2	4365.2	4322.8	4292.8	4262.7	4244.6	4214.3	4208.4
45°	3424.7	3382.2	3352.2	3340.1	3322.2	3267.8	3231.6	3195.4	3153.2	3141.3	3147.2
47.5°	2658.8	2616.7	2604.5	2574.5	2544.2	2514.2	2490.1	2447.9	2441.7	2417.6	2441.7
50°	2049.8	2037.9	2019.8	2007.7	1989.5	1965.5	1941.4	1917.3	1905.2	1905.2	1911.1
52.5°	1591.7	1597.7	1579.6	1561.5	1549.5	1549.5	1519.3	1513.3	1513.3	1489.2	1513.3
55°	1218.0	1211.8	1218.0	1205.8	1205.8	1187.7	1187.7	1169.6	1169.6	1151.5	1163.6
57.5°	892.4	904.3	892.4	898.4	910.5	892.4	886.2	868.1	880.2	868.1	874.3
60°	693.4	693.4	693.4	687.4	687.4	681.2	681.2	675.3	675.3	663.1	675.3
62.5°	512.5	518.4	518.4	518.4	524.6	518.4	512.5	518.4	512.5	512.5	518.4
65°	337.8	343.7	343.7	337.8	349.7	337.8	343.7	349.7	355.6	349.7	355.6
67.5°	229.1	229.1	235.3	241.2	235.3	241.2	247.2	241.2	247.2	259.3	247.2
70°	168.8	175.0	175.0	168.8	162.8	168.8	162.8	180.9	180.9	180.9	192.8
72.5°	108.4	108.4	102.5	102.5	102.5	102.5	102.5	120.6	108.4	102.5	114.7
75°	60.3	66.3	66.3	48.1	54.3	66.3	48.1	54.3	72.5	60.3	72.5
77.5°	36.2	36.2	36.2	36.2	36.2	36.2	48.1	42.2	42.2	42.2	48.1
80°	30.0	24.1	24.1	18.1	24.1	24.1	24.1	36.2	30.0	30.0	36.2
82.5°	12.2	12.2	6.0	0.0	12.2	12.2	12.2	12.2	12.2	12.2	24.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	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: P248559

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12335.5	12335.5	12329.6	12317.7	12293.4	12293.4	12287.4	12269.3	12257.4	12251.2	12251.2
5°	12275.2	12251.2	12227.1	12160.8	12160.8	12148.7	12112.7	12088.4	12076.5	12046.2	12034.3
7.5°	12221.1	12148.7	12106.5	12064.3	12010.2	11985.9	11943.7	11925.6	11883.4	11853.4	11835.2
10°	12088.4	12040.2	11985.9	11919.6	11877.4	11829.3	11780.9	11744.9	11690.6	11660.3	11636.2
12.5°	11998.0	11925.6	11877.4	11805.0	11732.8	11690.6	11624.3	11582.1	11527.8	11467.5	11431.2
15°	11913.7	11835.2	11769.0	11690.6	11612.1	11564.0	11485.6	11437.4	11359.0	11298.7	11256.5
17.5°	11787.1	11720.6	11648.4	11551.8	11479.6	11419.3	11334.7	11274.6	11202.2	11123.8	11081.6
20°	11654.3	11575.9	11503.7	11407.2	11334.7	11262.5	11178.1	11111.8	11027.2	10955.0	10906.9
22.5°	11479.6	11389.0	11328.7	11232.2	11147.8	11069.7	10991.2	10912.8	10834.4	10774.1	10719.7
25°	11226.2	11129.7	11063.5	10985.0	10906.9	10846.6	10750.0	10701.9	10623.5	10569.1	10514.8
27.5°	10864.4	10792.2	10731.9	10653.5	10587.2	10539.1	10466.6	10418.5	10352.0	10303.8	10261.6
30°	10334.1	10273.8	10219.4	10141.0	10092.9	10050.7	9984.2	9942.0	9893.9	9839.5	9827.6
32.5°	9622.6	9574.2	9520.1	9465.8	9429.5	9405.5	9351.1	9327.0	9278.9	9248.6	9218.6
35°	8549.3	8507.1	8477.1	8453.0	8440.8	8446.8	8434.9	8459.0	8470.9	8464.9	8470.9
37.5°	7144.7	7120.4	7132.5	7150.6	7210.9	7289.4	7361.6	7470.0	7542.5	7614.9	7681.2
40°	5577.0	5595.1	5643.3	5751.7	5908.6	6083.5	6246.3	6451.3	6656.3	6801.0	6933.5
42.5°	4208.4	4262.7	4383.1	4539.9	4775.2	5034.3	5287.7	5588.9	5836.3	6077.3	6246.3
45°	3165.3	3237.6	3394.4	3611.5	3870.6	4172.2	4491.8	4829.3	5124.9	5372.0	5558.9
47.5°	2466.0	2532.3	2689.1	2918.2	3237.6	3551.2	3882.8	4232.5	4539.9	4781.2	4943.9
50°	1947.4	2031.7	2170.5	2411.7	2731.3	3062.9	3406.6	3750.0	4039.6	4244.6	4389.3
52.5°	1531.4	1609.8	1742.4	1995.7	2321.3	2652.9	2972.3	3310.0	3563.2	3762.2	3858.7
55°	1187.7	1260.2	1398.7	1609.8	1917.3	2242.9	2562.3	2851.9	3086.9	3231.6	3322.2
57.5°	904.3	958.7	1055.2	1266.1	1543.6	1844.9	2116.4	2405.7	2586.6	2689.1	2749.2
60°	687.4	729.6	832.1	994.9	1248.0	1507.4	1736.4	1953.6	2098.2	2182.6	2242.9
62.5°	518.4	566.8	639.0	777.7	970.6	1181.8	1374.6	1537.4	1658.0	1712.3	1754.5
65°	355.6	391.9	446.2	554.6	717.4	868.1	1019.0	1139.6	1218.0	1278.3	1302.4
67.5°	265.3	289.4	319.6	404.0	518.4	639.0	741.5	825.9	910.5	934.6	976.8
70°	199.0	217.1	247.2	307.5	373.7	458.1	542.7	590.9	651.2	693.4	705.5
72.5°	126.6	132.5	162.8	199.0	253.1	307.5	361.8	404.0	440.2	464.3	476.2
75°	72.5	108.4	108.4	144.7	180.9	205.0	241.2	271.2	289.4	307.5	307.5
77.5°	48.1	66.3	72.5	90.3	108.4	138.7	168.8	186.9	205.0	210.9	210.9
80°	42.2	48.1	48.1	66.3	78.4	102.5	120.6	126.6	138.7	144.7	156.8
82.5°	18.1	24.1	30.0	48.1	54.3	54.3	72.5	78.4	90.3	96.5	96.5
85°	6.0	12.2	12.2	18.1	30.0	36.2	42.2	48.1	54.3	54.3	60.3
87.5°	6.0	6.0	0.0	6.0	12.2	12.2	24.1	24.1	24.1	36.2	36.2
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: P248559

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7	12347.7
2.5°	12239.3	12245.2	12221.1	12215.2	12203.0	12209.0	12221.1
5°	12016.2	12022.1	11998.0	11974.0	11974.0	11967.8	11974.0
7.5°	11805.0	11811.2	11774.9	11762.8	11738.7	11744.9	11744.9
10°	11594.0	11594.0	11539.9	11533.7	11515.6	11509.7	11509.7
12.5°	11389.0	11370.9	11328.7	11304.7	11316.8	11280.6	11280.6
15°	11208.1	11178.1	11123.8	11105.6	11075.6	11063.5	11063.5
17.5°	11021.3	10997.2	10949.0	10912.8	10876.6	10870.6	10876.6
20°	10840.4	10816.3	10756.0	10731.9	10701.9	10701.9	10689.7
22.5°	10659.4	10635.4	10581.3	10563.2	10521.0	10521.0	10526.9
25°	10472.6	10454.5	10394.2	10382.2	10376.3	10352.0	10364.1
27.5°	10219.4	10207.3	10159.1	10141.0	10117.0	10111.0	10122.9
30°	9755.1	9737.0	9701.0	9682.9	9640.7	9646.7	9658.6
32.5°	9176.4	9152.3	9103.9	9085.8	9049.8	9037.7	9043.6
35°	8453.0	8434.9	8392.7	8392.7	8356.5	8344.3	8356.5
37.5°	7717.4	7735.3	7717.4	7735.3	7717.4	7711.2	7717.4
40°	7024.1	7090.3	7102.2	7168.7	7144.7	7180.7	7174.7
42.5°	6360.7	6469.2	6511.6	6565.7	6553.8	6577.9	6596.0
45°	5691.4	5782.0	5824.2	5860.4	5866.4	5878.5	5884.5
47.5°	5058.4	5130.8	5136.8	5179.0	5173.0	5173.0	5191.1
50°	4467.7	4515.9	4527.8	4558.1	4534.0	4521.8	4527.8
52.5°	3919.0	3967.2	3955.0	3967.2	3937.1	3925.0	3930.9
55°	3358.2	3382.2	3382.2	3382.2	3346.3	3346.3	3346.3
57.5°	2785.4	2791.6	2779.5	2785.4	2779.5	2743.2	2737.3
60°	2261.0	2261.0	2254.8	2261.0	2242.9	2224.8	2224.8
62.5°	1766.4	1778.6	1802.7	1778.6	1766.4	1778.6	1760.5
65°	1320.5	1344.6	1338.4	1350.5	1344.6	1344.6	1332.4
67.5°	994.9	1000.9	1006.8	1013.0	1013.0	1013.0	1013.0
70°	729.6	747.7	741.5	741.5	741.5	741.5	777.7
72.5°	488.4	512.5	506.5	518.4	518.4	530.6	518.4
75°	331.5	355.6	343.7	361.8	355.6	343.7	373.7
77.5°	223.1	235.3	241.2	247.2	241.2	235.3	241.2
80°	156.8	168.8	162.8	168.8	168.8	168.8	175.0
82.5°	96.5	114.7	108.4	114.7	108.4	114.7	114.7
85°	66.3	72.5	60.3	72.5	66.3	66.3	78.4
87.5°	42.2	36.2	36.2	42.2	36.2	42.2	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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