

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: P248586

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248586
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 ER8B200850 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21909.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

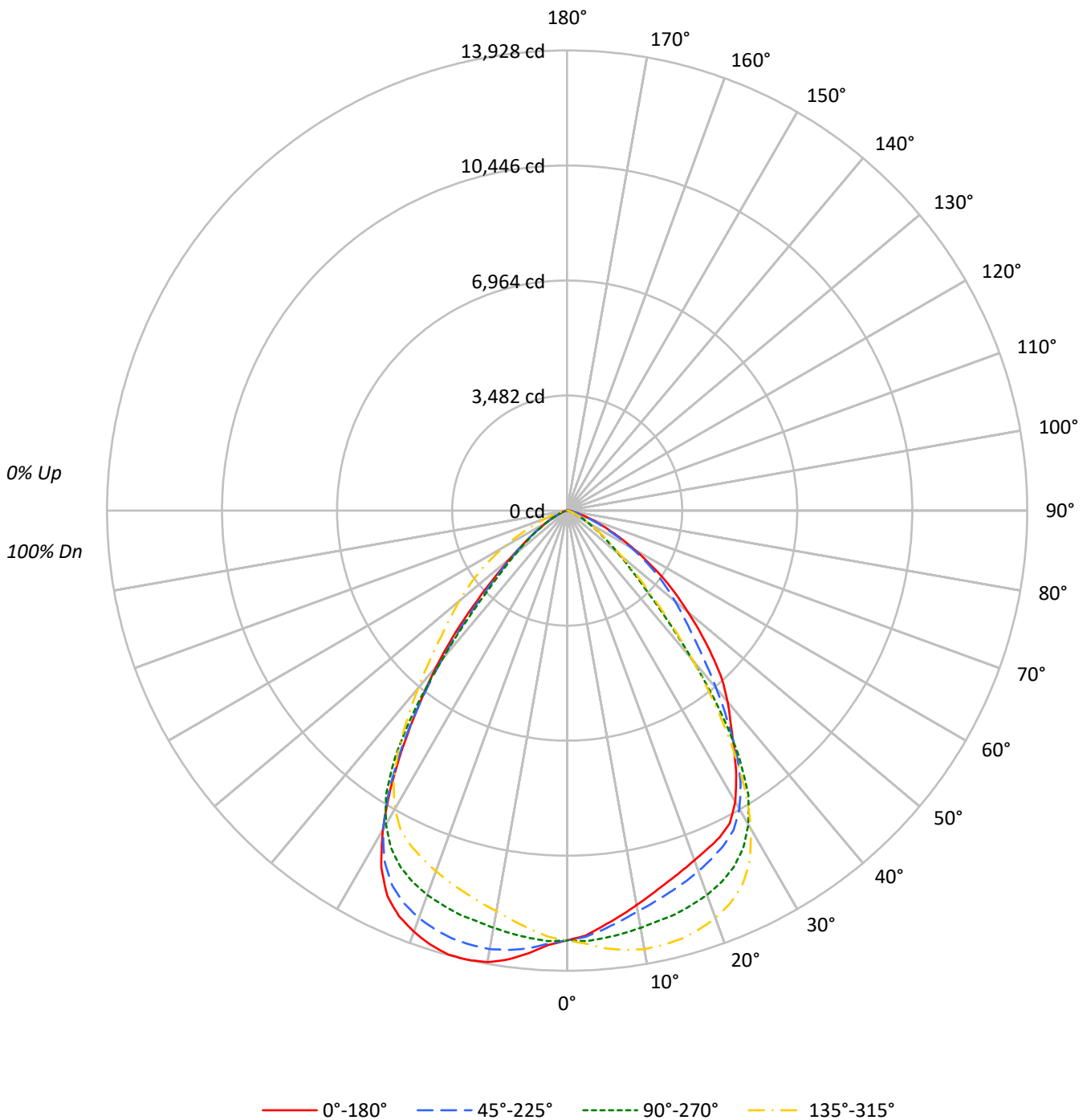
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	401079	401079	401079	401079
5°	390424	402020	416373	402020
10°	379624	401495	434504	401495
15°	372040	403878	444016	403878
20°	369507	406188	445160	406188
25°	371448	405373	438006	405373
30°	362263	390531	397552	390531
35°	331359	340680	323232	340680
40°	304223	236983	247473	236983
45°	270311	144573	167280	144573
50°	228801	96574	107248	96574
55°	189498	65895	69648	65895
60°	144530	43868	44256	43868
65°	102406	27333	25027	27333
70°	73868	18311	16616	18311
75°	46906	9091	7566	9091
80°	32728	6784	5612	6784
85°	29224	0	2229	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.0	5.7
10°-20°	3585.0	16.4
20°-30°	5428.4	24.8
30°-40°	5440.6	24.8
40°-50°	3416.4	15.6
50°-60°	1820.6	8.3
60°-70°	748.7	3.4
70°-80°	197.8	0.9
80°-90°	33.5	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°	10251.4	46.8
0°-40°	15692.0	71.6
0°-60°	20929.1	95.5
0°-90°	21909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21909.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13007	13007	13007	13007	13007	
5°	12613	12988	13451	12988	12613	###
15°	11654	12651	13908	12651	11654	3296
25°	10917	11914	12873	11914	10917	5007
35°	8802	9050	8586	9050	8802	5515
45°	6198	3315	3836	3315	6198	4767
55°	3525	1226	1296	1226	3525	3143
65°	1404	375	343	375	1404	1456
75°	394	76	64	76	394	446
85°	83	0	6	0	83	91
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°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	12873.4	12860.6	12854.3	12867.1	12873.4	12898.7	12892.4	12905.0	12905.0	12911.5	12924.1
5°	12613.0	12606.5	12613.0	12613.0	12638.4	12663.7	12657.4	12676.5	12689.1	12721.0	12733.5
7.5°	12371.7	12371.7	12365.2	12390.5	12403.3	12441.5	12435.0	12466.9	12486.0	12517.6	12562.0
10°	12123.9	12123.9	12130.2	12149.3	12155.8	12212.8	12212.8	12257.2	12282.6	12314.5	12371.7
12.5°	11882.6	11882.6	11920.8	11908.0	11933.3	11977.8	11996.9	12041.3	12079.5	12143.0	12200.2
15°	11653.9	11653.9	11666.7	11698.3	11717.4	11774.7	11806.3	11857.3	11901.7	11965.2	12047.8
17.5°	11457.0	11450.8	11457.0	11495.2	11533.4	11584.1	11609.4	11673.0	11717.4	11800.0	11876.3
20°	11260.2	11273.0	11273.0	11304.6	11330.0	11393.5	11418.9	11488.9	11539.7	11615.7	11704.9
22.5°	11088.7	11082.4	11082.4	11126.9	11146.0	11203.0	11228.3	11291.8	11349.1	11412.6	11495.2
25°	10917.2	10904.4	10930.0	10936.3	10948.9	11012.4	11031.5	11075.9	11133.2	11190.4	11273.0
27.5°	10663.1	10650.6	10656.9	10682.2	10701.3	10752.0	10764.8	10809.3	10853.7	10904.4	10974.5
30°	10174.0	10161.5	10155.2	10199.7	10218.7	10256.7	10275.7	10352.1	10364.6	10421.9	10472.6
32.5°	9526.3	9520.0	9532.8	9570.7	9589.8	9640.8	9666.1	9710.6	9742.2	9774.1	9824.8
35°	8802.4	8789.6	8802.4	8840.6	8840.6	8885.0	8904.1	8922.9	8916.7	8922.9	8910.4
37.5°	8129.3	8122.8	8129.3	8148.1	8129.3	8148.1	8129.3	8091.1	8021.3	7945.0	7868.7
40°	7557.6	7563.9	7526.0	7551.3	7481.3	7468.7	7398.9	7303.5	7163.9	7011.5	6795.6
42.5°	6948.0	6928.9	6903.6	6916.1	6859.1	6814.4	6700.2	6579.7	6401.7	6147.8	5887.2
45°	6198.5	6192.3	6179.5	6173.2	6135.0	6090.6	5995.2	5855.6	5658.7	5398.4	5087.0
47.5°	5468.2	5449.1	5449.1	5455.3	5410.9	5404.6	5328.3	5207.8	5036.3	4782.2	4458.3
50°	4769.4	4763.1	4775.9	4801.3	4769.4	4756.9	4706.2	4623.5	4471.1	4255.2	3950.2
52.5°	4140.7	4134.4	4147.3	4178.9	4166.1	4178.9	4128.2	4064.7	3963.0	3753.3	3486.7
55°	3524.8	3524.8	3524.8	3562.7	3562.7	3562.7	3537.4	3499.5	3404.1	3251.7	3004.1
57.5°	2883.3	2889.6	2927.8	2934.1	2927.8	2940.6	2934.1	2895.9	2832.6	2724.7	2534.1
60°	2343.5	2343.5	2362.6	2381.7	2375.2	2381.7	2381.7	2362.6	2299.1	2210.2	2057.8
62.5°	1854.4	1873.5	1860.7	1873.5	1898.9	1873.5	1860.7	1848.2	1803.7	1746.5	1619.4
65°	1403.5	1416.3	1416.3	1422.6	1409.8	1416.3	1391.0	1371.9	1346.5	1283.0	1200.4
67.5°	1067.1	1067.1	1067.1	1067.1	1060.5	1054.3	1048.0	1028.9	984.5	959.1	870.0
70°	819.3	781.1	781.1	781.1	781.1	787.6	768.5	743.2	730.4	685.9	622.4
72.5°	546.1	558.9	546.1	546.1	533.5	539.8	514.5	501.6	489.1	463.7	425.6
75°	393.7	362.1	374.6	381.1	362.1	374.6	349.2	323.9	323.9	304.8	285.7
77.5°	254.1	247.8	254.1	260.4	254.1	247.8	235.0	222.2	222.2	215.9	196.8
80°	184.3	177.8	177.8	177.8	171.5	177.8	165.2	165.2	152.4	146.1	133.3
82.5°	120.8	120.8	114.2	120.8	114.2	120.8	101.7	101.7	101.7	95.2	82.6
85°	82.6	69.8	69.8	76.3	63.5	76.3	69.8	63.5	57.2	57.2	50.7
87.5°	38.2	44.4	38.2	44.4	38.2	38.2	44.4	38.2	38.2	25.4	25.4
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°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	12943.2	12949.4	12949.4	12975.0	12987.6	12993.9	12993.9	13044.8	13025.8	13038.6	13051.1
5°	12759.1	12797.0	12809.8	12809.8	12879.6	12905.0	12930.3	12987.6	12993.9	13032.0	13076.5
7.5°	12581.1	12625.5	12651.2	12708.2	12752.6	12797.0	12873.4	12911.5	12949.4	13000.4	13057.4
10°	12409.6	12460.6	12511.3	12555.7	12625.5	12682.8	12733.5	12822.4	12867.1	12936.9	13013.0
12.5°	12244.7	12314.5	12358.9	12435.0	12511.3	12562.0	12638.4	12721.0	12790.8	12860.6	12949.4
15°	12098.5	12181.1	12231.9	12314.5	12397.1	12466.9	12549.5	12651.2	12701.9	12784.5	12867.1
17.5°	11939.6	12028.7	12092.3	12168.3	12270.0	12346.1	12416.2	12517.6	12581.1	12670.0	12765.4
20°	11774.7	11863.5	11939.6	12015.9	12117.6	12193.7	12276.3	12378.0	12447.8	12536.7	12613.0
22.5°	11577.8	11660.4	11742.8	11831.6	11933.3	11996.9	12092.3	12181.1	12257.2	12339.8	12416.2
25°	11323.7	11425.4	11488.9	11571.3	11653.9	11723.7	11825.4	11914.3	11977.8	12054.1	12123.9
27.5°	11025.2	11101.5	11152.2	11222.0	11304.6	11368.2	11444.2	11533.4	11596.9	11666.7	11717.4
30°	10517.0	10587.1	10631.5	10682.2	10764.8	10822.1	10885.6	10967.9	11012.4	11063.4	11107.8
32.5°	9850.2	9907.4	9932.8	9970.9	10028.2	10085.2	10136.1	10205.9	10225.0	10256.7	10256.7
35°	8885.0	8897.6	8891.3	8904.1	8929.5	8961.1	9005.5	9050.0	9075.3	9075.3	9056.5
37.5°	7754.4	7678.4	7595.8	7532.2	7513.2	7500.4	7526.0	7544.8	7570.4	7583.0	7551.3
40°	6579.7	6408.2	6223.9	6058.7	5944.4	5893.7	5874.7	5887.2	5887.2	5931.6	5931.6
42.5°	5569.8	5302.9	5030.0	4782.2	4617.0	4490.2	4433.0	4433.0	4439.3	4471.1	4490.2
45°	4731.5	4394.8	4077.2	3804.3	3575.6	3410.3	3334.3	3315.2	3308.9	3321.5	3365.9
47.5°	4090.0	3740.8	3410.3	3073.9	2832.6	2667.4	2597.6	2572.0	2546.6	2572.0	2578.5
50°	3588.4	3226.3	2877.1	2540.4	2286.3	2140.2	2051.3	2013.1	2006.8	2006.8	2019.6
52.5°	3130.9	2794.5	2445.2	2102.3	1835.4	1695.8	1613.2	1594.1	1568.7	1594.1	1594.1
55°	2699.1	2362.6	2019.6	1695.8	1473.3	1327.4	1251.1	1225.7	1212.9	1232.0	1232.0
57.5°	2229.3	1943.3	1626.0	1333.7	1111.5	1009.8	952.6	920.9	914.4	927.2	914.4
60°	1829.1	1587.8	1314.6	1048.0	876.5	768.5	724.1	711.3	698.5	711.3	711.3
62.5°	1447.9	1244.8	1022.4	819.3	673.1	597.1	546.1	546.1	539.8	539.8	546.1
65°	1073.3	914.4	755.7	584.2	470.0	412.8	374.6	374.6	368.3	374.6	368.3
67.5°	781.1	673.1	546.1	425.6	336.7	304.8	279.4	260.4	273.2	260.4	254.1
70°	571.7	482.6	393.7	323.9	260.4	228.7	209.7	203.1	190.6	190.6	190.6
72.5°	381.1	323.9	266.6	209.7	171.5	139.6	133.3	120.8	108.0	114.2	127.0
75°	254.1	215.9	190.6	152.4	114.2	114.2	76.3	76.3	63.5	76.3	57.2
77.5°	177.8	146.1	114.2	95.2	76.3	69.8	50.7	50.7	44.4	44.4	44.4
80°	127.0	108.0	82.6	69.8	50.7	50.7	44.4	38.2	31.6	31.6	38.2
82.5°	76.3	57.2	57.2	50.7	31.6	25.4	19.1	25.4	12.8	12.8	12.8
85°	44.4	38.2	31.6	19.1	12.8	12.8	6.3	0.0	6.3	6.3	0.0
87.5°	25.4	12.8	12.8	6.3	0.0	6.3	6.3	0.0	0.0	0.0	12.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	13083.0	13076.5	13089.3	13089.3	13127.5	13120.9	13140.0	13140.0	13127.5	13133.7	13159.1
5°	13127.5	13146.5	13184.4	13216.3	13273.3	13298.9	13330.6	13362.5	13368.7	13387.8	13406.9
7.5°	13127.5	13191.0	13235.4	13292.4	13368.7	13413.2	13483.0	13540.2	13565.6	13597.2	13635.4
10°	13101.8	13165.4	13248.0	13311.5	13406.9	13476.7	13546.5	13635.4	13673.5	13724.2	13775.2
12.5°	13051.1	13120.9	13209.8	13292.4	13400.4	13463.9	13552.8	13635.4	13692.6	13762.4	13819.7
15°	12975.0	13057.4	13140.0	13222.6	13336.8	13413.2	13495.8	13590.9	13648.2	13724.2	13775.2
17.5°	12854.3	12943.2	13019.5	13095.6	13203.5	13292.4	13368.7	13457.6	13514.9	13578.4	13648.2
20°	12708.2	12790.8	12873.4	12936.9	13044.8	13120.9	13203.5	13286.1	13330.6	13343.4	13451.3
22.5°	12524.1	12581.1	12644.6	12746.3	12809.8	12879.6	12956.0	13032.0	13076.5	13146.5	13184.4
25°	12219.1	12276.3	12346.1	12390.5	12466.9	12524.1	12600.2	12682.8	12708.2	12759.1	12797.0
27.5°	11793.7	11825.4	11857.3	11895.2	11939.6	11971.5	12015.9	12054.1	12079.5	12104.8	12130.2
30°	11120.4	11120.4	11120.4	11095.0	11114.1	11133.2	11139.4	11133.2	11133.2	11126.9	11126.9
32.5°	10231.3	10180.6	10123.3	10072.6	10053.5	10028.2	10015.4	9996.3	9964.7	9945.6	9951.9
35°	9030.9	8916.7	8846.9	8783.4	8732.6	8694.5	8675.4	8656.3	8650.0	8624.7	8599.1
37.5°	7532.2	7449.6	7398.9	7360.8	7316.3	7278.2	7284.4	7291.0	7309.8	7297.2	7303.5
40°	5944.4	5925.4	5944.4	5900.0	5887.2	5900.0	5931.6	5976.3	6001.7	6027.1	6071.5
42.5°	4521.9	4553.5	4598.2	4598.2	4617.0	4642.6	4680.5	4750.6	4788.5	4832.9	4883.9
45°	3404.1	3442.2	3499.5	3518.3	3531.1	3562.7	3607.4	3664.4	3689.8	3728.0	3772.4
47.5°	2623.0	2648.3	2680.0	2711.9	2743.5	2756.3	2800.7	2800.7	2832.6	2858.0	2870.5
50°	2045.0	2070.4	2095.7	2114.8	2127.6	2146.7	2159.2	2178.3	2184.6	2197.4	2203.7
52.5°	1600.3	1632.2	1632.2	1644.8	1663.9	1683.0	1676.7	1683.0	1689.2	1689.2	1708.3
55°	1251.1	1251.1	1270.2	1270.2	1283.0	1276.5	1283.0	1283.0	1283.0	1283.0	1289.3
57.5°	933.5	940.0	959.1	946.3	940.0	952.6	940.0	952.6	946.3	959.1	940.0
60°	717.6	717.6	724.1	724.1	730.4	730.4	730.4	724.1	724.1	717.6	717.6
62.5°	539.8	546.1	552.6	546.1	546.1	546.1	539.8	539.8	533.5	527.0	527.0
65°	362.1	355.8	368.3	355.8	362.1	362.1	355.8	362.1	343.0	349.2	343.0
67.5°	260.4	254.1	247.8	254.1	247.8	241.3	241.3	247.8	254.1	235.0	235.0
70°	171.5	177.8	171.5	177.8	184.3	184.3	177.8	171.5	177.8	165.2	171.5
72.5°	108.0	108.0	108.0	108.0	108.0	114.2	114.2	114.2	101.7	101.7	95.2
75°	50.7	69.8	57.2	50.7	69.8	69.8	63.5	63.5	57.2	57.2	57.2
77.5°	50.7	38.2	38.2	38.2	38.2	38.2	38.2	38.2	31.6	38.2	31.6
80°	25.4	25.4	25.4	19.1	25.4	25.4	31.6	25.4	25.4	19.1	31.6
82.5°	12.8	12.8	12.8	0.0	6.3	12.8	12.8	6.3	12.8	12.8	6.3
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: P248586

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	13152.8	13146.5	13152.8	13159.1	13152.8	13146.5	13152.8	13159.1	13133.7	13127.5	13140.0
5°	13432.3	13432.3	13444.8	13451.3	13444.8	13432.3	13432.3	13406.9	13387.8	13368.7	13362.5
7.5°	13673.5	13686.3	13698.9	13705.2	13698.9	13686.3	13673.5	13635.4	13597.2	13565.6	13540.2
10°	13819.7	13838.7	13864.1	13876.6	13864.1	13838.7	13819.7	13775.2	13724.2	13673.5	13635.4
12.5°	13883.2	13902.3	13933.9	13927.6	13933.9	13902.3	13883.2	13819.7	13762.4	13692.6	13635.4
15°	13838.7	13864.1	13895.7	13908.5	13895.7	13864.1	13838.7	13775.2	13724.2	13648.2	13590.9
17.5°	13698.9	13737.1	13756.1	13775.2	13756.1	13737.1	13698.9	13648.2	13578.4	13514.9	13457.6
20°	13508.3	13533.9	13559.3	13565.6	13559.3	13533.9	13508.3	13451.3	13343.4	13330.6	13286.1
22.5°	13235.4	13254.5	13311.5	13292.4	13311.5	13254.5	13235.4	13184.4	13146.5	13076.5	13032.0
25°	12841.5	12860.6	12867.1	12873.4	12867.1	12860.6	12841.5	12797.0	12759.1	12708.2	12682.8
27.5°	12162.1	12162.1	12174.6	12181.1	12174.6	12162.1	12162.1	12130.2	12104.8	12079.5	12054.1
30°	11133.2	11133.2	11133.2	11165.1	11133.2	11133.2	11133.2	11126.9	11126.9	11133.2	11133.2
32.5°	9945.6	9932.8	9920.2	9932.8	9920.2	9932.8	9945.6	9951.9	9945.6	9964.7	9996.3
35°	8599.1	8592.8	8611.9	8586.5	8611.9	8592.8	8599.1	8599.1	8624.7	8650.0	8656.3
37.5°	7309.8	7297.2	7322.6	7297.2	7322.6	7297.2	7309.8	7303.5	7297.2	7309.8	7291.0
40°	6084.3	6096.8	6096.8	6147.8	6096.8	6096.8	6084.3	6071.5	6027.1	6001.7	5976.3
42.5°	4909.3	4947.4	4934.6	4972.8	4934.6	4947.4	4909.3	4883.9	4832.9	4788.5	4750.6
45°	3797.8	3823.4	3823.4	3835.9	3823.4	3823.4	3797.8	3772.4	3728.0	3689.8	3664.4
47.5°	2915.0	2915.0	2915.0	2921.5	2915.0	2915.0	2915.0	2870.5	2858.0	2832.6	2800.7
50°	2216.5	2222.8	2229.3	2235.6	2229.3	2222.8	2216.5	2203.7	2197.4	2184.6	2178.3
52.5°	1702.0	1708.3	1695.8	1708.3	1695.8	1708.3	1702.0	1708.3	1689.2	1689.2	1683.0
55°	1289.3	1283.0	1289.3	1295.5	1289.3	1283.0	1289.3	1289.3	1283.0	1283.0	1283.0
57.5°	946.3	933.5	933.5	933.5	933.5	933.5	946.3	940.0	959.1	946.3	952.6
60°	705.0	711.3	711.3	717.6	711.3	711.3	705.0	717.6	717.6	724.1	724.1
62.5°	520.7	539.8	527.0	539.8	527.0	539.8	520.7	527.0	527.0	533.5	539.8
65°	336.7	336.7	336.7	343.0	336.7	336.7	336.7	343.0	349.2	343.0	362.1
67.5°	228.7	235.0	247.8	241.3	247.8	235.0	228.7	235.0	235.0	254.1	247.8
70°	184.3	165.2	165.2	184.3	165.2	165.2	184.3	171.5	165.2	177.8	171.5
72.5°	108.0	95.2	108.0	108.0	108.0	95.2	108.0	95.2	101.7	101.7	114.2
75°	57.2	50.7	44.4	63.5	44.4	50.7	57.2	57.2	57.2	57.2	63.5
77.5°	38.2	31.6	44.4	44.4	44.4	31.6	38.2	31.6	38.2	31.6	38.2
80°	19.1	25.4	19.1	31.6	19.1	25.4	19.1	31.6	19.1	25.4	25.4
82.5°	6.3	12.8	12.8	12.8	12.8	12.8	6.3	6.3	12.8	12.8	6.3
85°	0.0	12.8	6.3	6.3	6.3	12.8	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	0.0	0.0	6.3	0.0	0.0	6.3	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: P248586

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	13140.0	13120.9	13127.5	13089.3	13089.3	13076.5	13083.0	13051.1	13038.6	13025.8	13044.8
5°	13330.6	13298.9	13273.3	13216.3	13184.4	13146.5	13127.5	13076.5	13032.0	12993.9	12987.6
7.5°	13483.0	13413.2	13368.7	13292.4	13235.4	13191.0	13127.5	13057.4	13000.4	12949.4	12911.5
10°	13546.5	13476.7	13406.9	13311.5	13248.0	13165.4	13101.8	13013.0	12936.9	12867.1	12822.4
12.5°	13552.8	13463.9	13400.4	13292.4	13209.8	13120.9	13051.1	12949.4	12860.6	12790.8	12721.0
15°	13495.8	13413.2	13336.8	13222.6	13140.0	13057.4	12975.0	12867.1	12784.5	12701.9	12651.2
17.5°	13368.7	13292.4	13203.5	13095.6	13019.5	12943.2	12854.3	12765.4	12670.0	12581.1	12517.6
20°	13203.5	13120.9	13044.8	12936.9	12873.4	12790.8	12708.2	12613.0	12536.7	12447.8	12378.0
22.5°	12956.0	12879.6	12809.8	12746.3	12644.6	12581.1	12524.1	12416.2	12339.8	12257.2	12181.1
25°	12600.2	12524.1	12466.9	12390.5	12346.1	12276.3	12219.1	12123.9	12054.1	11977.8	11914.3
27.5°	12015.9	11971.5	11939.6	11895.2	11857.3	11825.4	11793.7	11717.4	11666.7	11596.9	11533.4
30°	11139.4	11133.2	11114.1	11095.0	11120.4	11120.4	11120.4	11107.8	11063.4	11012.4	10967.9
32.5°	10015.4	10028.2	10053.5	10072.6	10123.3	10180.6	10231.3	10256.7	10256.7	10225.0	10205.9
35°	8675.4	8694.5	8732.6	8783.4	8846.9	8916.7	9030.9	9056.5	9075.3	9075.3	9050.0
37.5°	7284.4	7278.2	7316.3	7360.8	7398.9	7449.6	7532.2	7551.3	7583.0	7570.4	7544.8
40°	5931.6	5900.0	5887.2	5900.0	5944.4	5925.4	5944.4	5931.6	5931.6	5887.2	5887.2
42.5°	4680.5	4642.6	4617.0	4598.2	4598.2	4553.5	4521.9	4490.2	4471.1	4439.3	4433.0
45°	3607.4	3562.7	3531.1	3518.3	3499.5	3442.2	3404.1	3365.9	3321.5	3308.9	3315.2
47.5°	2800.7	2756.3	2743.5	2711.9	2680.0	2648.3	2623.0	2578.5	2572.0	2546.6	2572.0
50°	2159.2	2146.7	2127.6	2114.8	2095.7	2070.4	2045.0	2019.6	2006.8	2006.8	2013.1
52.5°	1676.7	1683.0	1663.9	1644.8	1632.2	1632.2	1600.3	1594.1	1594.1	1568.7	1594.1
55°	1283.0	1276.5	1283.0	1270.2	1270.2	1251.1	1251.1	1232.0	1232.0	1212.9	1225.7
57.5°	940.0	952.6	940.0	946.3	959.1	940.0	933.5	914.4	927.2	914.4	920.9
60°	730.4	730.4	730.4	724.1	724.1	717.6	717.6	711.3	711.3	698.5	711.3
62.5°	539.8	546.1	546.1	546.1	552.6	546.1	539.8	546.1	539.8	539.8	546.1
65°	355.8	362.1	362.1	355.8	368.3	355.8	362.1	368.3	374.6	368.3	374.6
67.5°	241.3	241.3	247.8	254.1	247.8	254.1	260.4	254.1	260.4	273.2	260.4
70°	177.8	184.3	184.3	177.8	171.5	177.8	171.5	190.6	190.6	190.6	203.1
72.5°	114.2	114.2	108.0	108.0	108.0	108.0	108.0	127.0	114.2	108.0	120.8
75°	63.5	69.8	69.8	50.7	57.2	69.8	50.7	57.2	76.3	63.5	76.3
77.5°	38.2	38.2	38.2	38.2	38.2	38.2	50.7	44.4	44.4	44.4	50.7
80°	31.6	25.4	25.4	19.1	25.4	25.4	25.4	38.2	31.6	31.6	38.2
82.5°	12.8	12.8	6.3	0.0	12.8	12.8	12.8	12.8	12.8	12.8	25.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	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: P248586

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	12993.9	12993.9	12987.6	12975.0	12949.4	12949.4	12943.2	12924.1	12911.5	12905.0	12905.0
5°	12930.3	12905.0	12879.6	12809.8	12809.8	12797.0	12759.1	12733.5	12721.0	12689.1	12676.5
7.5°	12873.4	12797.0	12752.6	12708.2	12651.2	12625.5	12581.1	12562.0	12517.6	12486.0	12466.9
10°	12733.5	12682.8	12625.5	12555.7	12511.3	12460.6	12409.6	12371.7	12314.5	12282.6	12257.2
12.5°	12638.4	12562.0	12511.3	12435.0	12358.9	12314.5	12244.7	12200.2	12143.0	12079.5	12041.3
15°	12549.5	12466.9	12397.1	12314.5	12231.9	12181.1	12098.5	12047.8	11965.2	11901.7	11857.3
17.5°	12416.2	12346.1	12270.0	12168.3	12092.3	12028.7	11939.6	11876.3	11800.0	11717.4	11673.0
20°	12276.3	12193.7	12117.6	12015.9	11939.6	11863.5	11774.7	11704.9	11615.7	11539.7	11488.9
22.5°	12092.3	11996.9	11933.3	11831.6	11742.8	11660.4	11577.8	11495.2	11412.6	11349.1	11291.8
25°	11825.4	11723.7	11653.9	11571.3	11488.9	11425.4	11323.7	11273.0	11190.4	11133.2	11075.9
27.5°	11444.2	11368.2	11304.6	11222.0	11152.2	11101.5	11025.2	10974.5	10904.4	10853.7	10809.3
30°	10885.6	10822.1	10764.8	10682.2	10631.5	10587.1	10517.0	10472.6	10421.9	10364.6	10352.1
32.5°	10136.1	10085.2	10028.2	9970.9	9932.8	9907.4	9850.2	9824.8	9774.1	9742.2	9710.6
35°	9005.5	8961.1	8929.5	8904.1	8891.3	8897.6	8885.0	8910.4	8922.9	8916.7	8922.9
37.5°	7526.0	7500.4	7513.2	7532.2	7595.8	7678.4	7754.4	7868.7	7945.0	8021.3	8091.1
40°	5874.7	5893.7	5944.4	6058.7	6223.9	6408.2	6579.7	6795.6	7011.5	7163.9	7303.5
42.5°	4433.0	4490.2	4617.0	4782.2	5030.0	5302.9	5569.8	5887.2	6147.8	6401.7	6579.7
45°	3334.3	3410.3	3575.6	3804.3	4077.2	4394.8	4731.5	5087.0	5398.4	5658.7	5855.6
47.5°	2597.6	2667.4	2832.6	3073.9	3410.3	3740.8	4090.0	4458.3	4782.2	5036.3	5207.8
50°	2051.3	2140.2	2286.3	2540.4	2877.1	3226.3	3588.4	3950.2	4255.2	4471.1	4623.5
52.5°	1613.2	1695.8	1835.4	2102.3	2445.2	2794.5	3130.9	3486.7	3753.3	3963.0	4064.7
55°	1251.1	1327.4	1473.3	1695.8	2019.6	2362.6	2699.1	3004.1	3251.7	3404.1	3499.5
57.5°	952.6	1009.8	1111.5	1333.7	1626.0	1943.3	2229.3	2534.1	2724.7	2832.6	2895.9
60°	724.1	768.5	876.5	1048.0	1314.6	1587.8	1829.1	2057.8	2210.2	2299.1	2362.6
62.5°	546.1	597.1	673.1	819.3	1022.4	1244.8	1447.9	1619.4	1746.5	1803.7	1848.2
65°	374.6	412.8	470.0	584.2	755.7	914.4	1073.3	1200.4	1283.0	1346.5	1371.9
67.5°	279.4	304.8	336.7	425.6	546.1	673.1	781.1	870.0	959.1	984.5	1028.9
70°	209.7	228.7	260.4	323.9	393.7	482.6	571.7	622.4	685.9	730.4	743.2
72.5°	133.3	139.6	171.5	209.7	266.6	323.9	381.1	425.6	463.7	489.1	501.6
75°	76.3	114.2	114.2	152.4	190.6	215.9	254.1	285.7	304.8	323.9	323.9
77.5°	50.7	69.8	76.3	95.2	114.2	146.1	177.8	196.8	215.9	222.2	222.2
80°	44.4	50.7	50.7	69.8	82.6	108.0	127.0	133.3	146.1	152.4	165.2
82.5°	19.1	25.4	31.6	50.7	57.2	57.2	76.3	82.6	95.2	101.7	101.7
85°	6.3	12.8	12.8	19.1	31.6	38.2	44.4	50.7	57.2	57.2	63.5
87.5°	6.3	6.3	0.0	6.3	12.8	12.8	25.4	25.4	25.4	38.2	38.2
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: P248586

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7	13006.7
2.5°	12892.4	12898.7	12873.4	12867.1	12854.3	12860.6	12873.4
5°	12657.4	12663.7	12638.4	12613.0	12613.0	12606.5	12613.0
7.5°	12435.0	12441.5	12403.3	12390.5	12365.2	12371.7	12371.7
10°	12212.8	12212.8	12155.8	12149.3	12130.2	12123.9	12123.9
12.5°	11996.9	11977.8	11933.3	11908.0	11920.8	11882.6	11882.6
15°	11806.3	11774.7	11717.4	11698.3	11666.7	11653.9	11653.9
17.5°	11609.4	11584.1	11533.4	11495.2	11457.0	11450.8	11457.0
20°	11418.9	11393.5	11330.0	11304.6	11273.0	11273.0	11260.2
22.5°	11228.3	11203.0	11146.0	11126.9	11082.4	11082.4	11088.7
25°	11031.5	11012.4	10948.9	10936.3	10930.0	10904.4	10917.2
27.5°	10764.8	10752.0	10701.3	10682.2	10656.9	10650.6	10663.1
30°	10275.7	10256.7	10218.7	10199.7	10155.2	10161.5	10174.0
32.5°	9666.1	9640.8	9589.8	9570.7	9532.8	9520.0	9526.3
35°	8904.1	8885.0	8840.6	8840.6	8802.4	8789.6	8802.4
37.5°	8129.3	8148.1	8129.3	8148.1	8129.3	8122.8	8129.3
40°	7398.9	7468.7	7481.3	7551.3	7526.0	7563.9	7557.6
42.5°	6700.2	6814.4	6859.1	6916.1	6903.6	6928.9	6948.0
45°	5995.2	6090.6	6135.0	6173.2	6179.5	6192.3	6198.5
47.5°	5328.3	5404.6	5410.9	5455.3	5449.1	5449.1	5468.2
50°	4706.2	4756.9	4769.4	4801.3	4775.9	4763.1	4769.4
52.5°	4128.2	4178.9	4166.1	4178.9	4147.3	4134.4	4140.7
55°	3537.4	3562.7	3562.7	3562.7	3524.8	3524.8	3524.8
57.5°	2934.1	2940.6	2927.8	2934.1	2927.8	2889.6	2883.3
60°	2381.7	2381.7	2375.2	2381.7	2362.6	2343.5	2343.5
62.5°	1860.7	1873.5	1898.9	1873.5	1860.7	1873.5	1854.4
65°	1391.0	1416.3	1409.8	1422.6	1416.3	1416.3	1403.5
67.5°	1048.0	1054.3	1060.5	1067.1	1067.1	1067.1	1067.1
70°	768.5	787.6	781.1	781.1	781.1	781.1	819.3
72.5°	514.5	539.8	533.5	546.1	546.1	558.9	546.1
75°	349.2	374.6	362.1	381.1	374.6	362.1	393.7
77.5°	235.0	247.8	254.1	260.4	254.1	247.8	254.1
80°	165.2	177.8	171.5	177.8	177.8	177.8	184.3
82.5°	101.7	120.8	114.2	120.8	114.2	120.8	120.8
85°	69.8	76.3	63.5	76.3	69.8	69.8	82.6
87.5°	44.4	38.2	38.2	44.4	38.2	44.4	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)