

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: P248556

Luminaire Tested: **LD8B120D010 ER8B120830 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248556  
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 ER8B120830 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: 11858.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

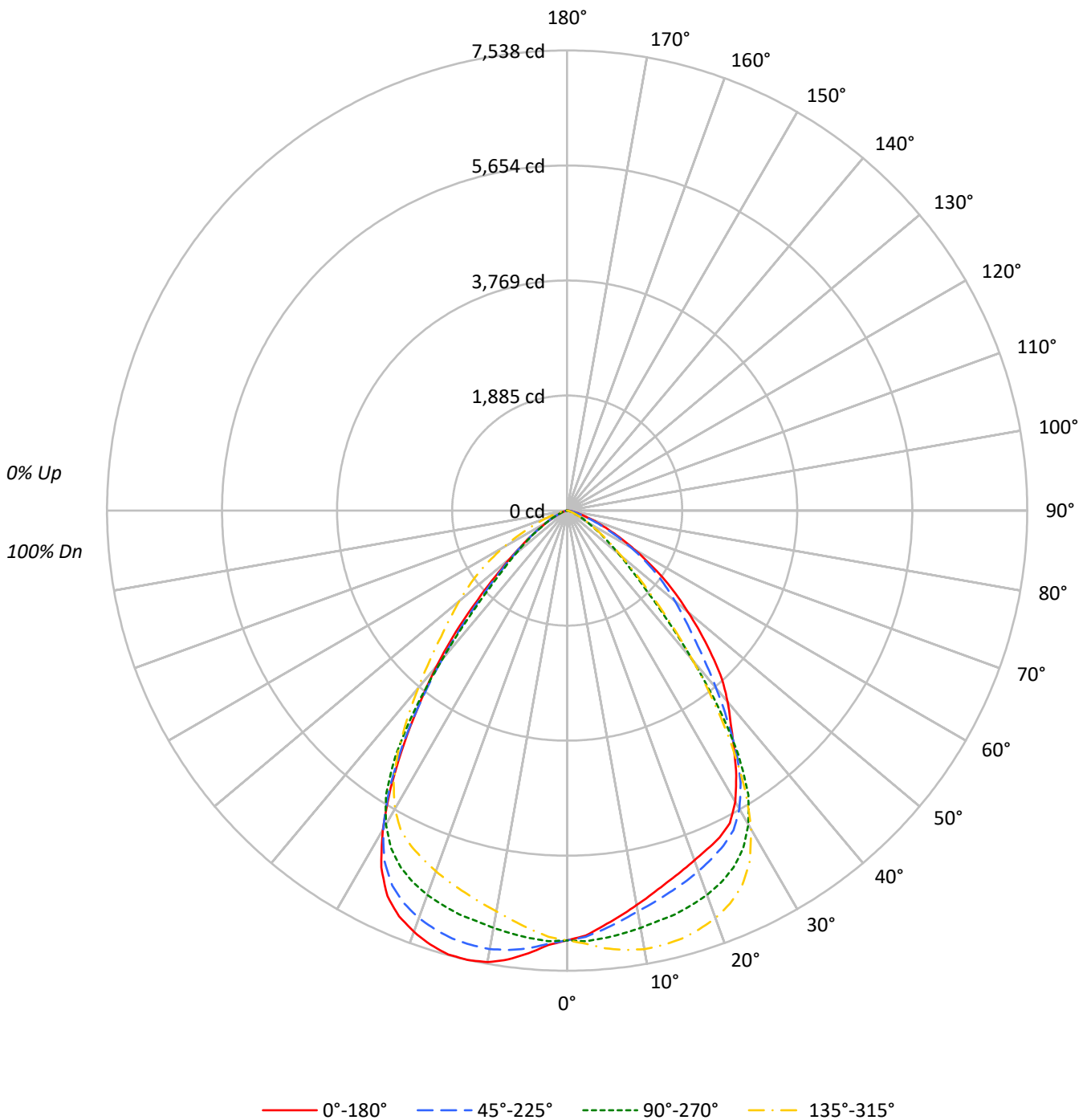
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	217078	217078	217078	217078
5°	211311	217589	225358	217589
10°	205466	217305	235172	217305
15°	201361	218594	240318	218594
20°	199993	219843	240937	219843
25°	201042	219404	237066	219404
30°	196072	211372	215171	211372
35°	179344	184389	174948	184389
40°	164659	128265	133941	128265
45°	146304	78248	90537	78248
50°	123837	52271	58047	52271
55°	102566	35665	37698	35665
60°	78226	23744	23954	23744
65°	55424	14790	13542	14790
70°	39977	9909	8989	9909
75°	25389	4921	4098	4921
80°	17705	3676	3037	3676
85°	15815	0	1203	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.1	5.7
10°-20°	1940.3	16.4
20°-30°	2938.1	24.8
30°-40°	2944.7	24.8
40°-50°	1849.1	15.6
50°-60°	985.4	8.3
60°-70°	405.2	3.4
70°-80°	107.0	0.9
80°-90°	18.1	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°	5548.5	46.8
0°-40°	8493.1	71.6
0°-60°	11327.6	95.5
0°-90°	11858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11858.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7040	7040	7040	7040	7040	
5°	6827	7029	7280	7029	6827	644
15°	6308	6847	7528	6847	6308	1784
25°	5909	6448	6968	6448	5909	2710
35°	4764	4898	4647	4898	4764	2985
45°	3355	1794	2076	1794	3355	2580
55°	1908	663	701	663	1908	1701
65°	760	203	186	203	760	788
75°	213	41	34	41	213	241
85°	45	0	3	0	45	49
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°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	6967.6	6960.6	6957.2	6964.2	6967.6	6981.3	6977.9	6984.7	6984.7	6988.2	6995.0
5°	6826.6	6823.1	6826.6	6826.6	6840.4	6854.1	6850.7	6861.0	6867.8	6885.1	6891.9
7.5°	6696.1	6696.1	6692.5	6706.2	6713.2	6733.8	6730.3	6747.6	6757.9	6775.0	6799.1
10°	6561.9	6561.9	6565.3	6575.6	6579.2	6610.0	6610.0	6634.1	6647.8	6665.1	6696.1
12.5°	6431.3	6431.3	6452.0	6445.1	6458.8	6482.8	6493.2	6517.2	6537.9	6572.3	6603.2
15°	6307.5	6307.5	6314.5	6331.6	6341.9	6372.9	6390.0	6417.6	6441.7	6476.0	6520.8
17.5°	6201.0	6197.6	6201.0	6221.7	6242.3	6269.8	6283.5	6317.9	6341.9	6386.6	6427.9
20°	6094.5	6101.4	6101.4	6118.5	6132.2	6166.6	6180.3	6218.3	6245.7	6286.9	6335.1
22.5°	6001.6	5998.2	5998.2	6022.3	6032.6	6063.5	6077.2	6111.6	6142.6	6176.9	6221.7
25°	5908.8	5901.9	5915.8	5919.2	5926.0	5960.3	5970.7	5994.7	6025.7	6056.7	6101.4
27.5°	5771.3	5764.5	5767.9	5781.6	5792.0	5819.4	5826.3	5850.4	5874.5	5901.9	5939.8
30°	5506.6	5499.8	5496.4	5520.5	5530.8	5551.3	5561.6	5602.9	5609.7	5640.7	5668.2
32.5°	5156.0	5152.6	5159.5	5180.0	5190.4	5218.0	5231.7	5255.7	5272.9	5290.1	5317.6
35°	4764.2	4757.3	4764.2	4784.9	4784.9	4808.9	4819.3	4829.4	4826.0	4829.4	4822.7
37.5°	4399.9	4396.4	4399.9	4410.1	4399.9	4410.1	4399.9	4379.2	4341.5	4300.1	4258.8
40°	4090.5	4093.9	4073.3	4087.1	4049.2	4042.4	4004.6	3952.9	3877.4	3794.9	3678.0
42.5°	3760.5	3750.2	3736.5	3743.3	3712.4	3688.2	3626.4	3561.2	3464.8	3327.4	3186.4
45°	3354.9	3351.5	3344.6	3341.2	3320.5	3296.5	3244.8	3169.3	3062.7	2921.8	2753.3
47.5°	2959.6	2949.3	2949.3	2952.6	2928.6	2925.2	2883.9	2818.7	2725.8	2588.3	2413.0
50°	2581.4	2578.0	2584.9	2598.7	2581.4	2574.6	2547.2	2502.4	2420.0	2303.1	2138.0
52.5°	2241.1	2237.7	2244.7	2261.8	2254.8	2261.8	2234.3	2199.9	2144.9	2031.4	1887.1
55°	1907.8	1907.8	1907.8	1928.3	1928.3	1928.3	1914.6	1894.1	1842.4	1759.9	1625.9
57.5°	1560.6	1564.0	1584.6	1588.0	1584.6	1591.6	1588.0	1567.4	1533.1	1474.7	1371.6
60°	1268.4	1268.4	1278.7	1289.1	1285.5	1289.1	1289.1	1278.7	1244.4	1196.3	1113.8
62.5°	1003.7	1014.0	1007.1	1014.0	1027.7	1014.0	1007.1	1000.3	976.2	945.3	876.5
65°	759.6	766.6	766.6	770.0	763.0	766.6	752.8	742.5	728.8	694.4	649.7
67.5°	577.5	577.5	577.5	577.5	574.0	570.6	567.2	556.9	532.8	519.1	470.9
70°	443.4	422.8	422.8	422.8	422.8	426.3	416.0	402.2	395.3	371.3	336.9
72.5°	295.6	302.5	295.6	295.6	288.8	292.2	278.4	271.5	264.7	251.0	230.3
75°	213.1	196.0	202.7	206.3	196.0	202.7	189.0	175.3	175.3	165.0	154.6
77.5°	137.5	134.1	137.5	140.9	137.5	134.1	127.2	120.3	120.3	116.9	106.5
80°	99.7	96.2	96.2	96.2	92.8	96.2	89.4	89.4	82.5	79.1	72.2
82.5°	65.4	65.4	61.8	65.4	61.8	65.4	55.0	55.0	55.0	51.5	44.7
85°	44.7	37.8	37.8	41.3	34.4	41.3	37.8	34.4	31.0	31.0	27.4
87.5°	20.7	24.1	20.7	24.1	20.7	20.7	24.1	20.7	20.7	13.7	13.7
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°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	7005.3	7008.7	7008.7	7022.6	7029.4	7032.8	7032.8	7060.4	7050.0	7057.0	7063.8
5°	6905.7	6926.2	6933.2	6933.2	6971.0	6984.7	6998.4	7029.4	7032.8	7053.4	7077.5
7.5°	6809.4	6833.4	6847.3	6878.1	6902.2	6926.2	6967.6	6988.2	7008.7	7036.3	7067.2
10°	6716.6	6744.2	6771.6	6795.7	6833.4	6864.4	6891.9	6940.0	6964.2	7001.9	7043.1
12.5°	6627.3	6665.1	6689.1	6730.3	6771.6	6799.1	6840.4	6885.1	6922.9	6960.6	7008.7
15°	6548.2	6592.9	6620.4	6665.1	6709.8	6747.6	6792.3	6847.3	6874.7	6919.5	6964.2
17.5°	6462.2	6510.4	6544.8	6586.0	6641.0	6682.2	6720.1	6775.0	6809.4	6857.5	6909.1
20°	6372.9	6421.0	6462.2	6503.5	6558.5	6599.7	6644.4	6699.4	6737.2	6785.3	6826.6
22.5°	6266.4	6311.1	6355.6	6403.7	6458.8	6493.2	6544.8	6592.9	6634.1	6678.8	6720.1
25°	6128.8	6183.9	6218.3	6262.8	6307.5	6345.3	6400.3	6448.5	6482.8	6524.1	6561.9
27.5°	5967.3	6008.6	6036.0	6073.8	6118.5	6152.9	6194.1	6242.3	6276.7	6314.5	6341.9
30°	5692.2	5730.1	5754.2	5781.6	5826.3	5857.3	5891.7	5936.3	5960.3	5987.9	6012.0
32.5°	5331.3	5362.3	5376.0	5396.7	5427.6	5458.5	5486.1	5523.9	5534.2	5551.3	5551.3
35°	4808.9	4815.7	4812.3	4819.3	4833.0	4850.1	4874.2	4898.2	4911.9	4911.9	4901.7
37.5°	4197.0	4155.8	4111.1	4076.7	4066.4	4059.5	4073.3	4083.5	4097.4	4104.2	4087.1
40°	3561.2	3468.4	3368.6	3279.2	3217.4	3189.9	3179.6	3186.4	3186.4	3210.4	3210.4
42.5°	3014.6	2870.2	2722.5	2588.3	2498.9	2430.3	2399.3	2399.3	2402.7	2420.0	2430.3
45°	2560.9	2378.6	2206.7	2059.0	1935.2	1845.8	1804.6	1794.3	1790.9	1797.7	1821.8
47.5°	2213.7	2024.6	1845.8	1663.7	1533.1	1443.7	1405.9	1392.1	1378.3	1392.1	1395.6
50°	1942.2	1746.2	1557.2	1374.9	1237.4	1158.3	1110.2	1089.6	1086.2	1086.2	1093.1
52.5°	1694.6	1512.5	1323.4	1137.8	993.4	917.8	873.1	862.8	849.1	862.8	862.8
55°	1460.8	1278.7	1093.1	917.8	797.4	718.5	677.1	663.4	656.5	666.8	666.8
57.5°	1206.6	1051.8	880.0	721.9	601.6	546.6	515.6	498.5	494.9	501.8	494.9
60°	990.0	859.4	711.5	567.2	474.4	416.0	391.9	385.0	378.0	385.0	385.0
62.5°	783.7	673.8	553.3	443.4	364.3	323.2	295.6	295.6	292.2	292.2	295.6
65°	580.9	494.9	409.0	316.2	254.4	223.4	202.7	202.7	199.4	202.7	199.4
67.5°	422.8	364.3	295.6	230.3	182.2	165.0	151.2	140.9	147.9	140.9	137.5
70°	309.4	261.2	213.1	175.3	140.9	123.8	113.5	109.9	103.1	103.1	103.1
72.5°	206.3	175.3	144.3	113.5	92.8	75.6	72.2	65.4	58.4	61.8	68.8
75°	137.5	116.9	103.1	82.5	61.8	61.8	41.3	41.3	34.4	41.3	31.0
77.5°	96.2	79.1	61.8	51.5	41.3	37.8	27.4	27.4	24.1	24.1	24.1
80°	68.8	58.4	44.7	37.8	27.4	27.4	24.1	20.7	17.1	17.1	20.7
82.5°	41.3	31.0	31.0	27.4	17.1	13.7	10.3	13.7	6.9	6.9	6.9
85°	24.1	20.7	17.1	10.3	6.9	6.9	3.4	0.0	3.4	3.4	0.0
87.5°	13.7	6.9	6.9	3.4	0.0	3.4	3.4	0.0	0.0	0.0	6.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	7081.0	7077.5	7084.4	7084.4	7105.1	7101.5	7111.9	7111.9	7105.1	7108.5	7122.2
5°	7105.1	7115.4	7135.9	7153.2	7184.0	7197.9	7215.0	7232.3	7235.7	7246.0	7256.3
7.5°	7105.1	7139.5	7163.5	7194.4	7235.7	7259.7	7297.5	7328.5	7342.2	7359.3	7380.0
10°	7091.2	7125.6	7170.3	7204.7	7256.3	7294.1	7331.9	7380.0	7400.6	7428.1	7455.7
12.5°	7063.8	7101.5	7149.7	7194.4	7252.8	7287.2	7335.3	7380.0	7411.0	7448.8	7479.7
15°	7022.6	7067.2	7111.9	7156.6	7218.4	7259.7	7304.4	7355.9	7386.9	7428.1	7455.7
17.5°	6957.2	7005.3	7046.7	7087.8	7146.3	7194.4	7235.7	7283.8	7314.8	7349.1	7386.9
20°	6878.1	6922.9	6967.6	7001.9	7060.4	7101.5	7146.3	7191.0	7215.0	7222.0	7280.4
22.5°	6778.5	6809.4	6843.8	6898.8	6933.2	6971.0	7012.3	7053.4	7077.5	7115.4	7135.9
25°	6613.4	6644.4	6682.2	6706.2	6747.6	6778.5	6819.7	6864.4	6878.1	6905.7	6926.2
27.5°	6383.2	6400.3	6417.6	6438.1	6462.2	6479.4	6503.5	6524.1	6537.9	6551.6	6565.3
30°	6018.8	6018.8	6018.8	6005.0	6015.4	6025.7	6029.1	6025.7	6025.7	6022.3	6022.3
32.5°	5537.6	5510.1	5479.1	5451.7	5441.4	5427.6	5420.7	5410.4	5393.3	5382.9	5386.3
35°	4887.9	4826.0	4788.3	4753.9	4726.4	4705.8	4695.5	4685.1	4681.7	4668.0	4654.1
37.5°	4076.7	4032.0	4004.6	3983.9	3959.9	3939.2	3942.6	3946.2	3956.3	3949.5	3952.9
40°	3217.4	3207.0	3217.4	3193.3	3186.4	3193.3	3210.4	3234.6	3248.4	3262.1	3286.1
42.5°	2447.4	2464.5	2488.7	2488.7	2498.9	2512.8	2533.3	2571.2	2591.7	2615.8	2643.4
45°	1842.4	1863.1	1894.1	1904.2	1911.2	1928.3	1952.5	1983.3	1997.1	2017.7	2041.8
47.5°	1419.7	1433.4	1450.5	1467.8	1484.9	1491.8	1515.9	1515.9	1533.1	1546.9	1553.6
50°	1106.8	1120.6	1134.3	1144.6	1151.5	1161.9	1168.7	1179.0	1182.4	1189.3	1192.7
52.5°	866.2	883.4	883.4	890.2	900.6	910.9	907.5	910.9	914.3	914.3	924.6
55°	677.1	677.1	687.5	687.5	694.4	690.9	694.4	694.4	694.4	694.4	697.8
57.5°	505.2	508.8	519.1	512.2	508.8	515.6	508.8	515.6	512.2	519.1	508.8
60°	388.4	388.4	391.9	391.9	395.3	395.3	395.3	391.9	391.9	388.4	388.4
62.5°	292.2	295.6	299.1	295.6	295.6	295.6	292.2	292.2	288.8	285.2	285.2
65°	196.0	192.6	199.4	192.6	196.0	196.0	192.6	196.0	185.6	189.0	185.6
67.5°	140.9	137.5	134.1	137.5	134.1	130.6	130.6	134.1	137.5	127.2	127.2
70°	92.8	96.2	92.8	96.2	99.7	99.7	96.2	92.8	96.2	89.4	92.8
72.5°	58.4	58.4	58.4	58.4	58.4	61.8	61.8	61.8	55.0	55.0	51.5
75°	27.4	37.8	31.0	27.4	37.8	37.8	34.4	34.4	31.0	31.0	31.0
77.5°	27.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	17.1	20.7	17.1
80°	13.7	13.7	13.7	10.3	13.7	13.7	17.1	13.7	13.7	10.3	17.1
82.5°	6.9	6.9	6.9	0.0	3.4	6.9	6.9	3.4	6.9	6.9	3.4
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: P248556

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	7118.8	7115.4	7118.8	7122.2	7118.8	7115.4	7118.8	7122.2	7108.5	7105.1	7111.9
5°	7270.1	7270.1	7276.8	7280.4	7276.8	7270.1	7270.1	7256.3	7246.0	7235.7	7232.3
7.5°	7400.6	7407.6	7414.4	7417.8	7414.4	7407.6	7400.6	7380.0	7359.3	7342.2	7328.5
10°	7479.7	7490.1	7503.8	7510.6	7503.8	7490.1	7479.7	7455.7	7428.1	7400.6	7380.0
12.5°	7514.1	7524.4	7541.6	7538.2	7541.6	7524.4	7514.1	7479.7	7448.8	7411.0	7380.0
15°	7490.1	7503.8	7520.9	7527.8	7520.9	7503.8	7490.1	7455.7	7428.1	7386.9	7355.9
17.5°	7414.4	7435.0	7445.4	7455.7	7445.4	7435.0	7414.4	7386.9	7349.1	7314.8	7283.8
20°	7311.2	7325.1	7338.8	7342.2	7338.8	7325.1	7311.2	7280.4	7222.0	7215.0	7191.0
22.5°	7163.5	7173.8	7204.7	7194.4	7204.7	7173.8	7163.5	7135.9	7115.4	7077.5	7053.4
25°	6950.3	6960.6	6964.2	6967.6	6964.2	6960.6	6950.3	6926.2	6905.7	6878.1	6864.4
27.5°	6582.6	6582.6	6589.4	6592.9	6589.4	6582.6	6582.6	6565.3	6551.6	6537.9	6524.1
30°	6025.7	6025.7	6025.7	6043.0	6025.7	6025.7	6025.7	6022.3	6022.3	6025.7	6025.7
32.5°	5382.9	5376.0	5369.2	5376.0	5369.2	5376.0	5382.9	5386.3	5382.9	5393.3	5410.4
35°	4654.1	4650.7	4661.1	4647.4	4661.1	4650.7	4654.1	4654.1	4668.0	4681.7	4685.1
37.5°	3956.3	3949.5	3963.3	3949.5	3963.3	3949.5	3956.3	3952.9	3949.5	3956.3	3946.2
40°	3293.1	3299.9	3299.9	3327.4	3299.9	3299.9	3293.1	3286.1	3262.1	3248.4	3234.6
42.5°	2657.1	2677.7	2670.8	2691.5	2670.8	2677.7	2657.1	2643.4	2615.8	2591.7	2571.2
45°	2055.5	2069.4	2069.4	2076.1	2069.4	2069.4	2055.5	2041.8	2017.7	1997.1	1983.3
47.5°	1577.7	1577.7	1577.7	1581.2	1577.7	1577.7	1577.7	1553.6	1546.9	1533.1	1515.9
50°	1199.6	1203.0	1206.6	1210.0	1206.6	1203.0	1199.6	1192.7	1189.3	1182.4	1179.0
52.5°	921.2	924.6	917.8	924.6	917.8	924.6	921.2	924.6	914.3	914.3	910.9
55°	697.8	694.4	697.8	701.2	697.8	694.4	697.8	697.8	694.4	694.4	694.4
57.5°	512.2	505.2	505.2	505.2	505.2	505.2	512.2	508.8	519.1	512.2	515.6
60°	381.6	385.0	385.0	388.4	385.0	385.0	381.6	388.4	388.4	391.9	391.9
62.5°	281.8	292.2	285.2	292.2	285.2	292.2	281.8	285.2	285.2	288.8	292.2
65°	182.2	182.2	182.2	185.6	182.2	182.2	182.2	185.6	189.0	185.6	196.0
67.5°	123.8	127.2	134.1	130.6	134.1	127.2	123.8	127.2	127.2	137.5	134.1
70°	99.7	89.4	89.4	99.7	89.4	89.4	99.7	92.8	89.4	96.2	92.8
72.5°	58.4	51.5	58.4	58.4	58.4	51.5	58.4	51.5	55.0	55.0	61.8
75°	31.0	27.4	24.1	34.4	24.1	27.4	31.0	31.0	31.0	31.0	34.4
77.5°	20.7	17.1	24.1	24.1	24.1	17.1	20.7	17.1	20.7	17.1	20.7
80°	10.3	13.7	10.3	17.1	10.3	13.7	10.3	17.1	10.3	13.7	13.7
82.5°	3.4	6.9	6.9	6.9	6.9	6.9	3.4	3.4	6.9	6.9	3.4
85°	0.0	6.9	3.4	3.4	3.4	6.9	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.0	0.0	3.4	0.0	0.0	3.4	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: P248556

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	7111.9	7101.5	7105.1	7084.4	7084.4	7077.5	7081.0	7063.8	7057.0	7050.0	7060.4
5°	7215.0	7197.9	7184.0	7153.2	7135.9	7115.4	7105.1	7077.5	7053.4	7032.8	7029.4
7.5°	7297.5	7259.7	7235.7	7194.4	7163.5	7139.5	7105.1	7067.2	7036.3	7008.7	6988.2
10°	7331.9	7294.1	7256.3	7204.7	7170.3	7125.6	7091.2	7043.1	7001.9	6964.2	6940.0
12.5°	7335.3	7287.2	7252.8	7194.4	7149.7	7101.5	7063.8	7008.7	6960.6	6922.9	6885.1
15°	7304.4	7259.7	7218.4	7156.6	7111.9	7067.2	7022.6	6964.2	6919.5	6874.7	6847.3
17.5°	7235.7	7194.4	7146.3	7087.8	7046.7	7005.3	6957.2	6909.1	6857.5	6809.4	6775.0
20°	7146.3	7101.5	7060.4	7001.9	6967.6	6922.9	6878.1	6826.6	6785.3	6737.2	6699.4
22.5°	7012.3	6971.0	6933.2	6898.8	6843.8	6809.4	6778.5	6720.1	6678.8	6634.1	6592.9
25°	6819.7	6778.5	6747.6	6706.2	6682.2	6644.4	6613.4	6561.9	6524.1	6482.8	6448.5
27.5°	6503.5	6479.4	6462.2	6438.1	6417.6	6400.3	6383.2	6341.9	6314.5	6276.7	6242.3
30°	6029.1	6025.7	6015.4	6005.0	6018.8	6018.8	6018.8	6012.0	5987.9	5960.3	5936.3
32.5°	5420.7	5427.6	5441.4	5451.7	5479.1	5510.1	5537.6	5551.3	5551.3	5534.2	5523.9
35°	4695.5	4705.8	4726.4	4753.9	4788.3	4826.0	4887.9	4901.7	4911.9	4911.9	4898.2
37.5°	3942.6	3939.2	3959.9	3983.9	4004.6	4032.0	4076.7	4087.1	4104.2	4097.4	4083.5
40°	3210.4	3193.3	3186.4	3193.3	3217.4	3207.0	3217.4	3210.4	3210.4	3186.4	3186.4
42.5°	2533.3	2512.8	2498.9	2488.7	2488.7	2464.5	2447.4	2430.3	2420.0	2402.7	2399.3
45°	1952.5	1928.3	1911.2	1904.2	1894.1	1863.1	1842.4	1821.8	1797.7	1790.9	1794.3
47.5°	1515.9	1491.8	1484.9	1467.8	1450.5	1433.4	1419.7	1395.6	1392.1	1378.3	1392.1
50°	1168.7	1161.9	1151.5	1144.6	1134.3	1120.6	1106.8	1093.1	1086.2	1086.2	1089.6
52.5°	907.5	910.9	900.6	890.2	883.4	883.4	866.2	862.8	862.8	849.1	862.8
55°	694.4	690.9	694.4	687.5	687.5	677.1	677.1	666.8	666.8	656.5	663.4
57.5°	508.8	515.6	508.8	512.2	519.1	508.8	505.2	494.9	501.8	494.9	498.5
60°	395.3	395.3	395.3	391.9	391.9	388.4	388.4	385.0	385.0	378.0	385.0
62.5°	292.2	295.6	295.6	295.6	299.1	295.6	292.2	295.6	292.2	292.2	295.6
65°	192.6	196.0	196.0	192.6	199.4	192.6	196.0	199.4	202.7	199.4	202.7
67.5°	130.6	130.6	134.1	137.5	134.1	137.5	140.9	137.5	140.9	147.9	140.9
70°	96.2	99.7	99.7	96.2	92.8	96.2	92.8	103.1	103.1	103.1	109.9
72.5°	61.8	61.8	58.4	58.4	58.4	58.4	58.4	68.8	61.8	58.4	65.4
75°	34.4	37.8	37.8	27.4	31.0	37.8	27.4	31.0	41.3	34.4	41.3
77.5°	20.7	20.7	20.7	20.7	20.7	20.7	27.4	24.1	24.1	24.1	27.4
80°	17.1	13.7	13.7	10.3	13.7	13.7	13.7	20.7	17.1	17.1	20.7
82.5°	6.9	6.9	3.4	0.0	6.9	6.9	6.9	6.9	6.9	6.9	13.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	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: P248556

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	7032.8	7032.8	7029.4	7022.6	7008.7	7008.7	7005.3	6995.0	6988.2	6984.7	6984.7
5°	6998.4	6984.7	6971.0	6933.2	6933.2	6926.2	6905.7	6891.9	6885.1	6867.8	6861.0
7.5°	6967.6	6926.2	6902.2	6878.1	6847.3	6833.4	6809.4	6799.1	6775.0	6757.9	6747.6
10°	6891.9	6864.4	6833.4	6795.7	6771.6	6744.2	6716.6	6696.1	6665.1	6647.8	6634.1
12.5°	6840.4	6799.1	6771.6	6730.3	6689.1	6665.1	6627.3	6603.2	6572.3	6537.9	6517.2
15°	6792.3	6747.6	6709.8	6665.1	6620.4	6592.9	6548.2	6520.8	6476.0	6441.7	6417.6
17.5°	6720.1	6682.2	6641.0	6586.0	6544.8	6510.4	6462.2	6427.9	6386.6	6341.9	6317.9
20°	6644.4	6599.7	6558.5	6503.5	6462.2	6421.0	6372.9	6335.1	6286.9	6245.7	6218.3
22.5°	6544.8	6493.2	6458.8	6403.7	6355.6	6311.1	6266.4	6221.7	6176.9	6142.6	6111.6
25°	6400.3	6345.3	6307.5	6262.8	6218.3	6183.9	6128.8	6101.4	6056.7	6025.7	5994.7
27.5°	6194.1	6152.9	6118.5	6073.8	6036.0	6008.6	5967.3	5939.8	5901.9	5874.5	5850.4
30°	5891.7	5857.3	5826.3	5781.6	5754.2	5730.1	5692.2	5668.2	5640.7	5609.7	5602.9
32.5°	5486.1	5458.5	5427.6	5396.7	5376.0	5362.3	5331.3	5317.6	5290.1	5272.9	5255.7
35°	4874.2	4850.1	4833.0	4819.3	4812.3	4815.7	4808.9	4822.7	4829.4	4826.0	4829.4
37.5°	4073.3	4059.5	4066.4	4076.7	4111.1	4155.8	4197.0	4258.8	4300.1	4341.5	4379.2
40°	3179.6	3189.9	3217.4	3279.2	3368.6	3468.4	3561.2	3678.0	3794.9	3877.4	3952.9
42.5°	2399.3	2430.3	2498.9	2588.3	2722.5	2870.2	3014.6	3186.4	3327.4	3464.8	3561.2
45°	1804.6	1845.8	1935.2	2059.0	2206.7	2378.6	2560.9	2753.3	2921.8	3062.7	3169.3
47.5°	1405.9	1443.7	1533.1	1663.7	1845.8	2024.6	2213.7	2413.0	2588.3	2725.8	2818.7
50°	1110.2	1158.3	1237.4	1374.9	1557.2	1746.2	1942.2	2138.0	2303.1	2420.0	2502.4
52.5°	873.1	917.8	993.4	1137.8	1323.4	1512.5	1694.6	1887.1	2031.4	2144.9	2199.9
55°	677.1	718.5	797.4	917.8	1093.1	1278.7	1460.8	1625.9	1759.9	1842.4	1894.1
57.5°	515.6	546.6	601.6	721.9	880.0	1051.8	1206.6	1371.6	1474.7	1533.1	1567.4
60°	391.9	416.0	474.4	567.2	711.5	859.4	990.0	1113.8	1196.3	1244.4	1278.7
62.5°	295.6	323.2	364.3	443.4	553.3	673.8	783.7	876.5	945.3	976.2	1000.3
65°	202.7	223.4	254.4	316.2	409.0	494.9	580.9	649.7	694.4	728.8	742.5
67.5°	151.2	165.0	182.2	230.3	295.6	364.3	422.8	470.9	519.1	532.8	556.9
70°	113.5	123.8	140.9	175.3	213.1	261.2	309.4	336.9	371.3	395.3	402.2
72.5°	72.2	75.6	92.8	113.5	144.3	175.3	206.3	230.3	251.0	264.7	271.5
75°	41.3	61.8	61.8	82.5	103.1	116.9	137.5	154.6	165.0	175.3	175.3
77.5°	27.4	37.8	41.3	51.5	61.8	79.1	96.2	106.5	116.9	120.3	120.3
80°	24.1	27.4	27.4	37.8	44.7	58.4	68.8	72.2	79.1	82.5	89.4
82.5°	10.3	13.7	17.1	27.4	31.0	31.0	41.3	44.7	51.5	55.0	55.0
85°	3.4	6.9	6.9	10.3	17.1	20.7	24.1	27.4	31.0	31.0	34.4
87.5°	3.4	3.4	0.0	3.4	6.9	6.9	13.7	13.7	13.7	20.7	20.7
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: P248556

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	6977.9	6981.3	6967.6	6964.2	6957.2	6960.6	6967.6
5°	6850.7	6854.1	6840.4	6826.6	6826.6	6823.1	6826.6
7.5°	6730.3	6733.8	6713.2	6706.2	6692.5	6696.1	6696.1
10°	6610.0	6610.0	6579.2	6575.6	6565.3	6561.9	6561.9
12.5°	6493.2	6482.8	6458.8	6445.1	6452.0	6431.3	6431.3
15°	6390.0	6372.9	6341.9	6331.6	6314.5	6307.5	6307.5
17.5°	6283.5	6269.8	6242.3	6221.7	6201.0	6197.6	6201.0
20°	6180.3	6166.6	6132.2	6118.5	6101.4	6101.4	6094.5
22.5°	6077.2	6063.5	6032.6	6022.3	5998.2	5998.2	6001.6
25°	5970.7	5960.3	5926.0	5919.2	5915.8	5901.9	5908.8
27.5°	5826.3	5819.4	5792.0	5781.6	5767.9	5764.5	5771.3
30°	5561.6	5551.3	5530.8	5520.5	5496.4	5499.8	5506.6
32.5°	5231.7	5218.0	5190.4	5180.0	5159.5	5152.6	5156.0
35°	4819.3	4808.9	4784.9	4784.9	4764.2	4757.3	4764.2
37.5°	4399.9	4410.1	4399.9	4410.1	4399.9	4396.4	4399.9
40°	4004.6	4042.4	4049.2	4087.1	4073.3	4093.9	4090.5
42.5°	3626.4	3688.2	3712.4	3743.3	3736.5	3750.2	3760.5
45°	3244.8	3296.5	3320.5	3341.2	3344.6	3351.5	3354.9
47.5°	2883.9	2925.2	2928.6	2952.6	2949.3	2949.3	2959.6
50°	2547.2	2574.6	2581.4	2598.7	2584.9	2578.0	2581.4
52.5°	2234.3	2261.8	2254.8	2261.8	2244.7	2237.7	2241.1
55°	1914.6	1928.3	1928.3	1928.3	1907.8	1907.8	1907.8
57.5°	1588.0	1591.6	1584.6	1588.0	1584.6	1564.0	1560.6
60°	1289.1	1289.1	1285.5	1289.1	1278.7	1268.4	1268.4
62.5°	1007.1	1014.0	1027.7	1014.0	1007.1	1014.0	1003.7
65°	752.8	766.6	763.0	770.0	766.6	766.6	759.6
67.5°	567.2	570.6	574.0	577.5	577.5	577.5	577.5
70°	416.0	426.3	422.8	422.8	422.8	422.8	443.4
72.5°	278.4	292.2	288.8	295.6	295.6	302.5	295.6
75°	189.0	202.7	196.0	206.3	202.7	196.0	213.1
77.5°	127.2	134.1	137.5	140.9	137.5	134.1	137.5
80°	89.4	96.2	92.8	96.2	96.2	96.2	99.7
82.5°	55.0	65.4	61.8	65.4	61.8	65.4	65.4
85°	37.8	41.3	34.4	41.3	37.8	37.8	44.7
87.5°	24.1	20.7	20.7	24.1	20.7	24.1	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)