

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: P248881

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248881  
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: LD8B150D010 ER8B150830 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11941.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 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

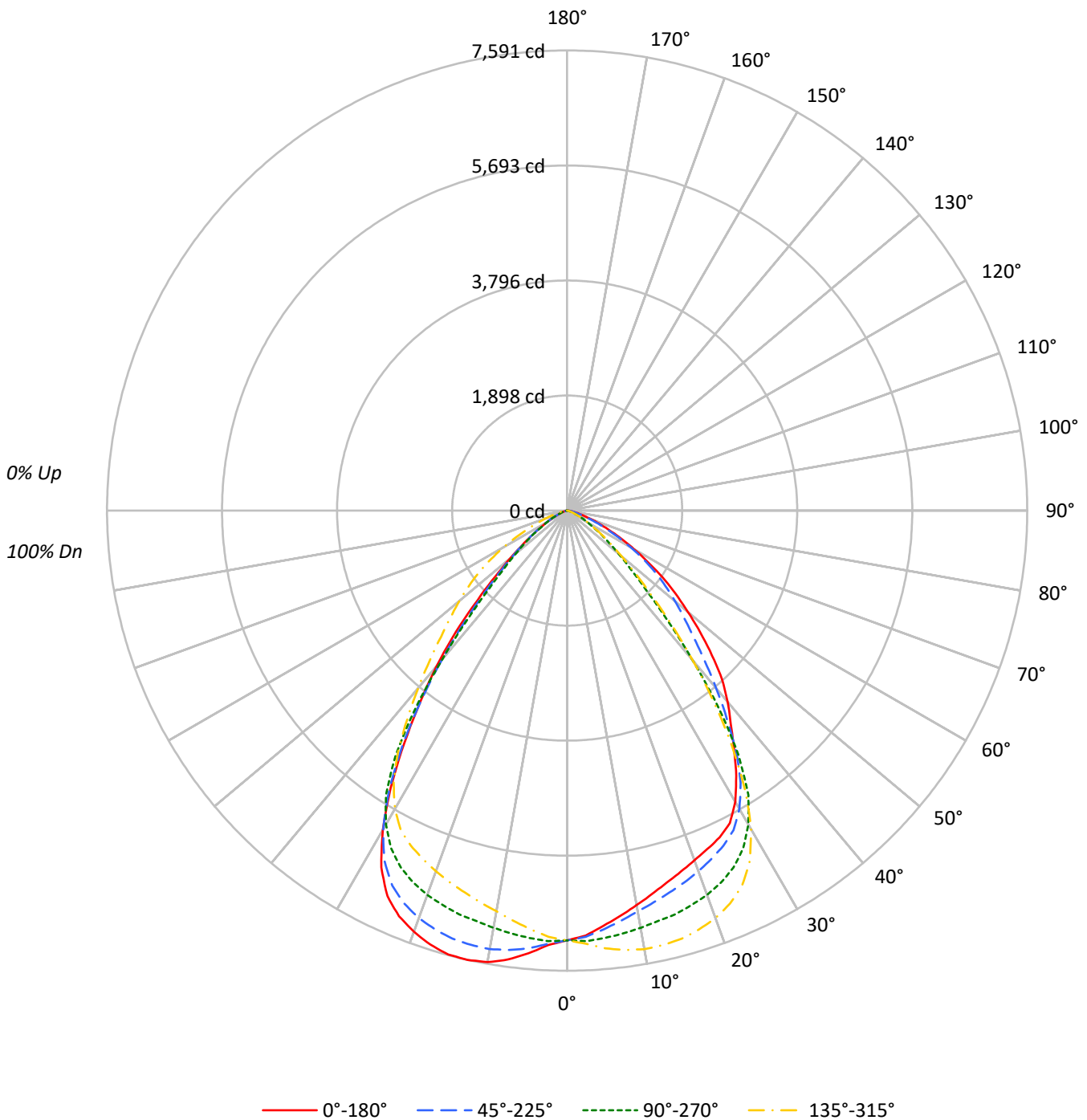
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	218599	218599	218599	218599
5°	212791	219112	226934	219112
10°	206907	218824	236819	218824
15°	202772	220123	242001	220123
20°	201391	221382	242623	221382
25°	202450	220939	238723	220939
30°	197443	212850	216678	212850
35°	180602	185680	176171	185680
40°	165810	129163	134879	129163
45°	147329	78797	91174	78797
50°	124705	52636	58450	52636
55°	103281	35918	37961	35918
60°	78774	23910	24120	23910
65°	55811	14899	13637	14899
70°	40256	9981	9052	9981
75°	25568	4956	4122	4956
80°	17829	3694	3054	3694
85°	15921	0	1203	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.7	5.7
10°-20°	1953.9	16.4
20°-30°	2958.6	24.8
30°-40°	2965.3	24.8
40°-50°	1862.1	15.6
50°-60°	992.3	8.3
60°-70°	408.0	3.4
70°-80°	107.8	0.9
80°-90°	18.2	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°	5587.3	46.8
0°-40°	8552.6	71.6
0°-60°	11406.9	95.5
0°-90°	11941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11941.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7089	7089	7089	7089	7089	
5°	6874	7079	7331	7079	6874	648
15°	6352	6895	7580	6895	6352	1796
25°	5950	6494	7016	6494	5950	2729
35°	4798	4932	4680	4932	4798	3006
45°	3378	1807	2091	1807	3378	2598
55°	1921	668	706	668	1921	1713
65°	765	204	187	204	765	793
75°	215	42	35	42	215	243
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°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7016.3	7009.3	7005.9	7012.9	7016.3	7030.2	7026.7	7033.6	7033.6	7037.1	7044.0
5°	6874.4	6870.9	6874.4	6874.4	6888.2	6902.1	6898.6	6909.0	6915.9	6933.3	6940.1
7.5°	6742.9	6742.9	6739.4	6753.2	6760.2	6781.0	6777.4	6794.8	6805.2	6822.4	6846.6
10°	6607.9	6607.9	6611.3	6621.7	6625.2	6656.3	6656.3	6680.5	6694.3	6711.7	6742.9
12.5°	6476.4	6476.4	6497.2	6490.2	6504.0	6528.2	6538.6	6562.8	6583.6	6618.3	6649.5
15°	6351.7	6351.7	6358.7	6375.9	6386.3	6417.5	6434.7	6462.5	6486.8	6521.4	6566.4
17.5°	6244.4	6241.0	6244.4	6265.2	6286.0	6313.6	6327.5	6362.1	6386.3	6431.3	6472.9
20°	6137.1	6144.1	6144.1	6161.3	6175.2	6209.8	6223.6	6261.8	6289.4	6330.9	6379.5
22.5°	6043.7	6040.2	6040.2	6064.5	6074.9	6105.9	6119.7	6154.4	6185.6	6220.2	6265.2
25°	5950.2	5943.2	5957.2	5960.6	5967.4	6002.1	6012.5	6036.7	6067.9	6099.1	6144.1
27.5°	5811.7	5804.9	5808.3	5822.1	5832.5	5860.1	5867.1	5891.3	5915.6	5943.2	5981.4
30°	5545.1	5538.3	5534.9	5559.1	5569.5	5590.2	5600.6	5642.2	5649.0	5680.2	5707.8
32.5°	5192.1	5188.7	5195.6	5216.3	5226.7	5254.5	5268.3	5292.5	5309.8	5327.1	5354.8
35°	4797.6	4790.6	4797.6	4818.4	4818.4	4842.6	4853.0	4863.2	4859.8	4863.2	4856.4
37.5°	4430.7	4427.1	4430.7	4441.0	4430.7	4441.0	4430.7	4409.9	4371.8	4330.2	4288.6
40°	4119.1	4122.5	4101.9	4115.7	4077.5	4070.7	4032.6	3980.6	3904.5	3821.5	3703.8
42.5°	3786.8	3776.4	3762.6	3769.5	3738.4	3714.0	3651.8	3586.1	3489.1	3350.7	3208.7
45°	3378.4	3375.0	3368.0	3364.6	3343.7	3319.5	3267.5	3191.4	3084.2	2942.3	2772.6
47.5°	2980.3	2969.9	2969.9	2973.3	2949.1	2945.7	2904.1	2838.4	2744.9	2606.4	2429.9
50°	2599.5	2596.0	2603.0	2616.8	2599.5	2592.6	2565.0	2520.0	2436.9	2319.2	2152.9
52.5°	2256.8	2253.4	2260.4	2277.6	2270.6	2277.6	2250.0	2215.3	2159.9	2045.7	1900.3
55°	1921.1	1921.1	1921.1	1941.8	1941.8	1941.8	1928.0	1907.3	1855.3	1772.2	1637.3
57.5°	1571.5	1574.9	1595.7	1599.1	1595.7	1602.7	1599.1	1578.3	1543.9	1485.0	1381.2
60°	1277.3	1277.3	1287.7	1298.1	1294.5	1298.1	1298.1	1287.7	1253.1	1204.6	1121.6
62.5°	1010.7	1021.1	1014.1	1021.1	1034.9	1021.1	1014.1	1007.3	983.1	951.9	882.6
65°	764.9	771.9	771.9	775.3	768.4	771.9	758.1	747.7	733.9	699.3	654.2
67.5°	581.6	581.6	581.6	581.6	578.0	574.6	571.2	560.8	536.6	522.7	474.2
70°	446.5	425.7	425.7	425.7	425.7	429.3	418.9	405.1	398.1	373.9	339.2
72.5°	297.6	304.6	297.6	297.6	290.8	294.2	280.4	273.4	266.6	252.8	231.9
75°	214.6	197.3	204.2	207.7	197.3	204.2	190.3	176.5	176.5	166.1	155.7
77.5°	138.5	135.1	138.5	141.9	138.5	135.1	128.1	121.1	121.1	117.7	107.3
80°	100.4	96.9	96.9	96.9	93.5	96.9	90.0	90.0	83.1	79.6	72.7
82.5°	65.8	65.8	62.3	65.8	62.3	65.8	55.4	55.4	55.4	51.9	45.0
85°	45.0	38.0	38.0	41.6	34.6	41.6	38.0	34.6	31.2	31.2	27.6
87.5°	20.8	24.2	20.8	24.2	20.8	20.8	24.2	20.8	20.8	13.8	13.8
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: P248881

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7054.4	7057.8	7057.8	7071.8	7078.6	7082.0	7082.0	7109.8	7099.4	7106.4	7113.2
5°	6954.1	6974.7	6981.7	6981.7	7019.8	7033.6	7047.4	7078.6	7082.0	7102.8	7127.0
7.5°	6857.0	6881.3	6895.2	6926.3	6950.5	6974.7	7016.3	7037.1	7057.8	7085.6	7116.6
10°	6763.6	6791.4	6819.0	6843.2	6881.3	6912.5	6940.1	6988.5	7012.9	7051.0	7092.4
12.5°	6673.7	6711.7	6735.9	6777.4	6819.0	6846.6	6888.2	6933.3	6971.3	7009.3	7057.8
15°	6594.0	6639.1	6666.7	6711.7	6756.7	6794.8	6839.8	6895.2	6922.9	6967.9	7012.9
17.5°	6507.4	6556.0	6590.6	6632.1	6687.5	6729.0	6767.1	6822.4	6857.0	6905.5	6957.5
20°	6417.5	6465.9	6507.4	6549.0	6604.4	6645.9	6690.9	6746.3	6784.4	6832.8	6874.4
22.5°	6310.2	6355.2	6400.1	6448.6	6504.0	6538.6	6590.6	6639.1	6680.5	6725.5	6767.1
25°	6171.7	6227.2	6261.8	6306.7	6351.7	6389.7	6445.1	6493.6	6528.2	6569.8	6607.9
27.5°	6009.0	6050.6	6078.3	6116.3	6161.3	6196.0	6237.4	6286.0	6320.6	6358.7	6386.3
30°	5732.1	5770.2	5794.5	5822.1	5867.1	5898.3	5933.0	5977.8	6002.1	6029.8	6054.1
32.5°	5368.6	5399.8	5413.6	5434.4	5465.6	5496.7	5524.5	5562.5	5572.9	5590.2	5590.2
35°	4842.6	4849.4	4846.0	4853.0	4866.8	4884.0	4908.3	4932.5	4946.3	4946.3	4936.1
37.5°	4226.4	4184.9	4139.9	4105.3	4094.9	4087.9	4101.9	4112.1	4126.1	4132.9	4115.7
40°	3586.1	3492.6	3392.2	3302.1	3239.9	3212.2	3201.8	3208.7	3208.7	3232.9	3232.9
42.5°	3035.7	2890.3	2741.5	2606.4	2516.4	2447.3	2416.1	2416.1	2419.5	2436.9	2447.3
45°	2578.8	2395.3	2222.2	2073.4	1948.8	1858.7	1817.3	1806.9	1803.5	1810.3	1834.5
47.5°	2229.2	2038.8	1858.7	1675.4	1543.9	1453.8	1415.8	1401.8	1388.0	1401.8	1405.4
50°	1955.8	1758.4	1568.1	1384.6	1246.1	1166.4	1118.0	1097.2	1093.8	1093.8	1100.8
52.5°	1706.4	1523.1	1332.7	1145.8	1000.3	924.2	879.2	868.8	855.0	868.8	868.8
55°	1471.1	1287.7	1100.8	924.2	803.0	723.5	681.9	668.1	661.1	671.5	671.5
57.5°	1215.0	1059.2	886.2	726.9	605.8	550.4	519.2	501.9	498.4	505.4	498.4
60°	996.9	865.4	716.5	571.2	477.7	418.9	394.7	387.7	380.7	387.7	387.7
62.5°	789.2	678.5	557.2	446.5	366.9	325.4	297.6	297.6	294.2	294.2	297.6
65°	585.0	498.4	411.9	318.4	256.2	225.0	204.2	204.2	200.7	204.2	200.7
67.5°	425.7	366.9	297.6	231.9	183.5	166.1	152.3	141.9	148.9	141.9	138.5
70°	311.6	263.0	214.6	176.5	141.9	124.7	114.3	110.7	103.9	103.9	103.9
72.5°	207.7	176.5	145.3	114.3	93.5	76.1	72.7	65.8	58.8	62.3	69.2
75°	138.5	117.7	103.9	83.1	62.3	62.3	41.6	41.6	34.6	41.6	31.2
77.5°	96.9	79.6	62.3	51.9	41.6	38.0	27.6	27.6	24.2	24.2	24.2
80°	69.2	58.8	45.0	38.0	27.6	27.6	24.2	20.8	17.2	17.2	20.8
82.5°	41.6	31.2	31.2	27.6	17.2	13.8	10.4	13.8	7.0	7.0	7.0
85°	24.2	20.8	17.2	10.4	7.0	7.0	3.4	0.0	3.4	3.4	0.0
87.5°	13.8	7.0	7.0	3.4	0.0	3.4	3.4	0.0	0.0	0.0	7.0
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: P248881

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7130.6	7127.0	7134.0	7134.0	7154.8	7151.3	7161.7	7161.7	7154.8	7158.2	7172.1
5°	7154.8	7165.2	7185.9	7203.3	7234.3	7248.3	7265.5	7282.9	7286.3	7296.7	7307.1
7.5°	7154.8	7189.4	7213.7	7244.7	7286.3	7310.5	7348.6	7379.8	7393.6	7410.8	7431.6
10°	7140.9	7175.5	7220.5	7255.1	7307.1	7345.2	7383.2	7431.6	7452.4	7480.1	7507.9
12.5°	7113.2	7151.3	7199.7	7244.7	7303.6	7338.2	7386.6	7431.6	7462.8	7500.9	7532.1
15°	7071.8	7116.6	7161.7	7206.7	7268.9	7310.5	7355.6	7407.4	7438.6	7480.1	7507.9
17.5°	7005.9	7054.4	7096.0	7137.4	7196.3	7244.7	7286.3	7334.8	7366.0	7400.6	7438.6
20°	6926.3	6971.3	7016.3	7051.0	7109.8	7151.3	7196.3	7241.3	7265.5	7272.5	7331.3
22.5°	6826.0	6857.0	6891.7	6947.1	6981.7	7019.8	7061.4	7102.8	7127.0	7165.2	7185.9
25°	6659.7	6690.9	6729.0	6753.2	6794.8	6826.0	6867.4	6912.5	6926.3	6954.1	6974.7
27.5°	6427.9	6445.1	6462.5	6483.2	6507.4	6524.8	6549.0	6569.8	6583.6	6597.5	6611.3
30°	6060.9	6060.9	6060.9	6047.1	6057.5	6067.9	6071.3	6067.9	6067.9	6064.5	6064.5
32.5°	5576.3	5548.7	5517.5	5489.9	5479.5	5465.6	5458.7	5448.2	5431.0	5420.6	5424.0
35°	4922.1	4859.8	4821.8	4787.2	4759.5	4738.7	4728.3	4717.9	4714.5	4700.7	4686.7
37.5°	4105.3	4060.3	4032.6	4011.8	3987.6	3966.8	3970.2	3973.8	3984.0	3977.2	3980.6
40°	3239.9	3229.5	3239.9	3215.7	3208.7	3215.7	3232.9	3257.3	3271.1	3284.9	3309.1
42.5°	2464.5	2481.8	2506.1	2506.1	2516.4	2530.4	2551.0	2589.2	2609.9	2634.1	2661.9
45°	1855.3	1876.1	1907.3	1917.6	1924.6	1941.8	1966.2	1997.2	2011.0	2031.8	2056.1
47.5°	1429.6	1443.4	1460.7	1478.0	1495.3	1502.3	1526.5	1526.5	1543.9	1557.7	1564.5
50°	1114.6	1128.4	1142.2	1152.6	1159.6	1170.0	1176.8	1187.2	1190.7	1197.6	1201.1
52.5°	872.2	889.6	889.6	896.5	906.9	917.3	913.8	917.3	920.7	920.7	931.1
55°	681.9	681.9	692.3	692.3	699.3	695.7	699.3	699.3	699.3	699.3	702.7
57.5°	508.8	512.3	522.7	515.8	512.3	519.2	512.3	519.2	515.8	522.7	512.3
60°	391.1	391.1	394.7	394.7	398.1	398.1	398.1	394.7	394.7	391.1	391.1
62.5°	294.2	297.6	301.2	297.6	297.6	297.6	294.2	294.2	290.8	287.2	287.2
65°	197.3	193.9	200.7	193.9	197.3	197.3	193.9	197.3	186.9	190.3	186.9
67.5°	141.9	138.5	135.1	138.5	135.1	131.5	131.5	135.1	138.5	128.1	128.1
70°	93.5	96.9	93.5	96.9	100.4	100.4	96.9	93.5	96.9	90.0	93.5
72.5°	58.8	58.8	58.8	58.8	58.8	62.3	62.3	62.3	55.4	55.4	51.9
75°	27.6	38.0	31.2	27.6	38.0	38.0	34.6	34.6	31.2	31.2	31.2
77.5°	27.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8	17.2	20.8	17.2
80°	13.8	13.8	13.8	10.4	13.8	13.8	17.2	13.8	13.8	10.4	17.2
82.5°	7.0	7.0	7.0	0.0	3.4	7.0	7.0	3.4	7.0	7.0	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: P248881

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7168.6	7165.2	7168.6	7172.1	7168.6	7165.2	7168.6	7172.1	7158.2	7154.8	7161.7
5°	7320.9	7320.9	7327.8	7331.3	7327.8	7320.9	7320.9	7307.1	7296.7	7286.3	7282.9
7.5°	7452.4	7459.4	7466.3	7469.7	7466.3	7459.4	7452.4	7431.6	7410.8	7393.6	7379.8
10°	7532.1	7542.5	7556.3	7563.2	7556.3	7542.5	7532.1	7507.9	7480.1	7452.4	7431.6
12.5°	7566.7	7577.1	7594.4	7590.9	7594.4	7577.1	7566.7	7532.1	7500.9	7462.8	7431.6
15°	7542.5	7556.3	7573.6	7580.5	7573.6	7556.3	7542.5	7507.9	7480.1	7438.6	7407.4
17.5°	7466.3	7487.1	7497.5	7507.9	7497.5	7487.1	7466.3	7438.6	7400.6	7366.0	7334.8
20°	7362.4	7376.4	7390.2	7393.6	7390.2	7376.4	7362.4	7331.3	7272.5	7265.5	7241.3
22.5°	7213.7	7224.1	7255.1	7244.7	7255.1	7224.1	7213.7	7185.9	7165.2	7127.0	7102.8
25°	6998.9	7009.3	7012.9	7016.3	7012.9	7009.3	6998.9	6974.7	6954.1	6926.3	6912.5
27.5°	6628.7	6628.7	6635.5	6639.1	6635.5	6628.7	6628.7	6611.3	6597.5	6583.6	6569.8
30°	6067.9	6067.9	6067.9	6085.3	6067.9	6067.9	6067.9	6064.5	6064.5	6067.9	6067.9
32.5°	5420.6	5413.6	5406.8	5413.6	5406.8	5413.6	5420.6	5424.0	5420.6	5431.0	5448.2
35°	4686.7	4683.3	4693.7	4679.9	4693.7	4683.3	4686.7	4686.7	4700.7	4714.5	4717.9
37.5°	3984.0	3977.2	3991.0	3977.2	3991.0	3977.2	3984.0	3980.6	3977.2	3984.0	3973.8
40°	3316.1	3322.9	3322.9	3350.7	3322.9	3322.9	3316.1	3309.1	3284.9	3271.1	3257.3
42.5°	2675.7	2696.5	2689.5	2710.3	2689.5	2696.5	2675.7	2661.9	2634.1	2609.9	2589.2
45°	2069.9	2083.8	2083.8	2090.7	2083.8	2083.8	2069.9	2056.1	2031.8	2011.0	1997.2
47.5°	1588.7	1588.7	1588.7	1592.3	1588.7	1588.7	1588.7	1564.5	1557.7	1543.9	1526.5
50°	1208.0	1211.5	1215.0	1218.4	1215.0	1211.5	1208.0	1201.1	1197.6	1190.7	1187.2
52.5°	927.7	931.1	924.2	931.1	924.2	931.1	927.7	931.1	920.7	920.7	917.3
55°	702.7	699.3	702.7	706.1	702.7	699.3	702.7	702.7	699.3	699.3	699.3
57.5°	515.8	508.8	508.8	508.8	508.8	508.8	515.8	512.3	522.7	515.8	519.2
60°	384.3	387.7	387.7	391.1	387.7	387.7	384.3	391.1	391.1	394.7	394.7
62.5°	283.8	294.2	287.2	294.2	287.2	294.2	283.8	287.2	287.2	290.8	294.2
65°	183.5	183.5	183.5	186.9	183.5	183.5	183.5	186.9	190.3	186.9	197.3
67.5°	124.7	128.1	135.1	131.5	135.1	128.1	124.7	128.1	128.1	138.5	135.1
70°	100.4	90.0	90.0	100.4	90.0	90.0	100.4	93.5	90.0	96.9	93.5
72.5°	58.8	51.9	58.8	58.8	58.8	51.9	58.8	51.9	55.4	55.4	62.3
75°	31.2	27.6	24.2	34.6	24.2	27.6	31.2	31.2	31.2	31.2	34.6
77.5°	20.8	17.2	24.2	24.2	24.2	17.2	20.8	17.2	20.8	17.2	20.8
80°	10.4	13.8	10.4	17.2	10.4	13.8	10.4	17.2	10.4	13.8	13.8
82.5°	3.4	7.0	7.0	7.0	7.0	7.0	3.4	3.4	7.0	7.0	3.4
85°	0.0	7.0	3.4	3.4	3.4	7.0	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: P248881

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7161.7	7151.3	7154.8	7134.0	7134.0	7127.0	7130.6	7113.2	7106.4	7099.4	7109.8
5°	7265.5	7248.3	7234.3	7203.3	7185.9	7165.2	7154.8	7127.0	7102.8	7082.0	7078.6
7.5°	7348.6	7310.5	7286.3	7244.7	7213.7	7189.4	7154.8	7116.6	7085.6	7057.8	7037.1
10°	7383.2	7345.2	7307.1	7255.1	7220.5	7175.5	7140.9	7092.4	7051.0	7012.9	6988.5
12.5°	7386.6	7338.2	7303.6	7244.7	7199.7	7151.3	7113.2	7057.8	7009.3	6971.3	6933.3
15°	7355.6	7310.5	7268.9	7206.7	7161.7	7116.6	7071.8	7012.9	6967.9	6922.9	6895.2
17.5°	7286.3	7244.7	7196.3	7137.4	7096.0	7054.4	7005.9	6957.5	6905.5	6857.0	6822.4
20°	7196.3	7151.3	7109.8	7051.0	7016.3	6971.3	6926.3	6874.4	6832.8	6784.4	6746.3
22.5°	7061.4	7019.8	6981.7	6947.1	6891.7	6857.0	6826.0	6767.1	6725.5	6680.5	6639.1
25°	6867.4	6826.0	6794.8	6753.2	6729.0	6690.9	6659.7	6607.9	6569.8	6528.2	6493.6
27.5°	6549.0	6524.8	6507.4	6483.2	6462.5	6445.1	6427.9	6386.3	6358.7	6320.6	6286.0
30°	6071.3	6067.9	6057.5	6047.1	6060.9	6060.9	6060.9	6054.1	6029.8	6002.1	5977.8
32.5°	5458.7	5465.6	5479.5	5489.9	5517.5	5548.7	5576.3	5590.2	5590.2	5572.9	5562.5
35°	4728.3	4738.7	4759.5	4787.2	4821.8	4859.8	4922.1	4936.1	4946.3	4946.3	4932.5
37.5°	3970.2	3966.8	3987.6	4011.8	4032.6	4060.3	4105.3	4115.7	4132.9	4126.1	4112.1
40°	3232.9	3215.7	3208.7	3215.7	3239.9	3229.5	3239.9	3232.9	3232.9	3208.7	3208.7
42.5°	2551.0	2530.4	2516.4	2506.1	2506.1	2481.8	2464.5	2447.3	2436.9	2419.5	2416.1
45°	1966.2	1941.8	1924.6	1917.6	1907.3	1876.1	1855.3	1834.5	1810.3	1803.5	1806.9
47.5°	1526.5	1502.3	1495.3	1478.0	1460.7	1443.4	1429.6	1405.4	1401.8	1388.0	1401.8
50°	1176.8	1170.0	1159.6	1152.6	1142.2	1128.4	1114.6	1100.8	1093.8	1093.8	1097.2
52.5°	913.8	917.3	906.9	896.5	889.6	889.6	872.2	868.8	868.8	855.0	868.8
55°	699.3	695.7	699.3	692.3	692.3	681.9	681.9	671.5	671.5	661.1	668.1
57.5°	512.3	519.2	512.3	515.8	522.7	512.3	508.8	498.4	505.4	498.4	501.9
60°	398.1	398.1	398.1	394.7	394.7	391.1	391.1	387.7	387.7	380.7	387.7
62.5°	294.2	297.6	297.6	297.6	301.2	297.6	294.2	297.6	294.2	294.2	297.6
65°	193.9	197.3	197.3	193.9	200.7	193.9	197.3	200.7	204.2	200.7	204.2
67.5°	131.5	131.5	135.1	138.5	135.1	138.5	141.9	138.5	141.9	148.9	141.9
70°	96.9	100.4	100.4	96.9	93.5	96.9	93.5	103.9	103.9	103.9	110.7
72.5°	62.3	62.3	58.8	58.8	58.8	58.8	58.8	69.2	62.3	58.8	65.8
75°	34.6	38.0	38.0	27.6	31.2	38.0	27.6	31.2	41.6	34.6	41.6
77.5°	20.8	20.8	20.8	20.8	20.8	20.8	27.6	24.2	24.2	24.2	27.6
80°	17.2	13.8	13.8	10.4	13.8	13.8	13.8	20.8	17.2	17.2	20.8
82.5°	7.0	7.0	3.4	0.0	7.0	7.0	7.0	7.0	7.0	7.0	13.8
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	7.0	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: P248881

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7082.0	7082.0	7078.6	7071.8	7057.8	7057.8	7054.4	7044.0	7037.1	7033.6	7033.6
5°	7047.4	7033.6	7019.8	6981.7	6981.7	6974.7	6954.1	6940.1	6933.3	6915.9	6909.0
7.5°	7016.3	6974.7	6950.5	6926.3	6895.2	6881.3	6857.0	6846.6	6822.4	6805.2	6794.8
10°	6940.1	6912.5	6881.3	6843.2	6819.0	6791.4	6763.6	6742.9	6711.7	6694.3	6680.5
12.5°	6888.2	6846.6	6819.0	6777.4	6735.9	6711.7	6673.7	6649.5	6618.3	6583.6	6562.8
15°	6839.8	6794.8	6756.7	6711.7	6666.7	6639.1	6594.0	6566.4	6521.4	6486.8	6462.5
17.5°	6767.1	6729.0	6687.5	6632.1	6590.6	6556.0	6507.4	6472.9	6431.3	6386.3	6362.1
20°	6690.9	6645.9	6604.4	6549.0	6507.4	6465.9	6417.5	6379.5	6330.9	6289.4	6261.8
22.5°	6590.6	6538.6	6504.0	6448.6	6400.1	6355.2	6310.2	6265.2	6220.2	6185.6	6154.4
25°	6445.1	6389.7	6351.7	6306.7	6261.8	6227.2	6171.7	6144.1	6099.1	6067.9	6036.7
27.5°	6237.4	6196.0	6161.3	6116.3	6078.3	6050.6	6009.0	5981.4	5943.2	5915.6	5891.3
30°	5933.0	5898.3	5867.1	5822.1	5794.5	5770.2	5732.1	5707.8	5680.2	5649.0	5642.2
32.5°	5524.5	5496.7	5465.6	5434.4	5413.6	5399.8	5368.6	5354.8	5327.1	5309.8	5292.5
35°	4908.3	4884.0	4866.8	4853.0	4846.0	4849.4	4842.6	4856.4	4863.2	4859.8	4863.2
37.5°	4101.9	4087.9	4094.9	4105.3	4139.9	4184.9	4226.4	4288.6	4330.2	4371.8	4409.9
40°	3201.8	3212.2	3239.9	3302.1	3392.2	3492.6	3586.1	3703.8	3821.5	3904.5	3980.6
42.5°	2416.1	2447.3	2516.4	2606.4	2741.5	2890.3	3035.7	3208.7	3350.7	3489.1	3586.1
45°	1817.3	1858.7	1948.8	2073.4	2222.2	2395.3	2578.8	2772.6	2942.3	3084.2	3191.4
47.5°	1415.8	1453.8	1543.9	1675.4	1858.7	2038.8	2229.2	2429.9	2606.4	2744.9	2838.4
50°	1118.0	1166.4	1246.1	1384.6	1568.1	1758.4	1955.8	2152.9	2319.2	2436.9	2520.0
52.5°	879.2	924.2	1000.3	1145.8	1332.7	1523.1	1706.4	1900.3	2045.7	2159.9	2215.3
55°	681.9	723.5	803.0	924.2	1100.8	1287.7	1471.1	1637.3	1772.2	1855.3	1907.3
57.5°	519.2	550.4	605.8	726.9	886.2	1059.2	1215.0	1381.2	1485.0	1543.9	1578.3
60°	394.7	418.9	477.7	571.2	716.5	865.4	996.9	1121.6	1204.6	1253.1	1287.7
62.5°	297.6	325.4	366.9	446.5	557.2	678.5	789.2	882.6	951.9	983.1	1007.3
65°	204.2	225.0	256.2	318.4	411.9	498.4	585.0	654.2	699.3	733.9	747.7
67.5°	152.3	166.1	183.5	231.9	297.6	366.9	425.7	474.2	522.7	536.6	560.8
70°	114.3	124.7	141.9	176.5	214.6	263.0	311.6	339.2	373.9	398.1	405.1
72.5°	72.7	76.1	93.5	114.3	145.3	176.5	207.7	231.9	252.8	266.6	273.4
75°	41.6	62.3	62.3	83.1	103.9	117.7	138.5	155.7	166.1	176.5	176.5
77.5°	27.6	38.0	41.6	51.9	62.3	79.6	96.9	107.3	117.7	121.1	121.1
80°	24.2	27.6	27.6	38.0	45.0	58.8	69.2	72.7	79.6	83.1	90.0
82.5°	10.4	13.8	17.2	27.6	31.2	31.2	41.6	45.0	51.9	55.4	55.4
85°	3.4	7.0	7.0	10.4	17.2	20.8	24.2	27.6	31.2	31.2	34.6
87.5°	3.4	3.4	0.0	3.4	7.0	7.0	13.8	13.8	13.8	20.8	20.8
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: P248881

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7026.7	7030.2	7016.3	7012.9	7005.9	7009.3	7016.3
5°	6898.6	6902.1	6888.2	6874.4	6874.4	6870.9	6874.4
7.5°	6777.4	6781.0	6760.2	6753.2	6739.4	6742.9	6742.9
10°	6656.3	6656.3	6625.2	6621.7	6611.3	6607.9	6607.9
12.5°	6538.6	6528.2	6504.0	6490.2	6497.2	6476.4	6476.4
15°	6434.7	6417.5	6386.3	6375.9	6358.7	6351.7	6351.7
17.5°	6327.5	6313.6	6286.0	6265.2	6244.4	6241.0	6244.4
20°	6223.6	6209.8	6175.2	6161.3	6144.1	6144.1	6137.1
22.5°	6119.7	6105.9	6074.9	6064.5	6040.2	6040.2	6043.7
25°	6012.5	6002.1	5967.4	5960.6	5957.2	5943.2	5950.2
27.5°	5867.1	5860.1	5832.5	5822.1	5808.3	5804.9	5811.7
30°	5600.6	5590.2	5569.5	5559.1	5534.9	5538.3	5545.1
32.5°	5268.3	5254.5	5226.7	5216.3	5195.6	5188.7	5192.1
35°	4853.0	4842.6	4818.4	4818.4	4797.6	4790.6	4797.6
37.5°	4430.7	4441.0	4430.7	4441.0	4430.7	4427.1	4430.7
40°	4032.6	4070.7	4077.5	4115.7	4101.9	4122.5	4119.1
42.5°	3651.8	3714.0	3738.4	3769.5	3762.6	3776.4	3786.8
45°	3267.5	3319.5	3343.7	3364.6	3368.0	3375.0	3378.4
47.5°	2904.1	2945.7	2949.1	2973.3	2969.9	2969.9	2980.3
50°	2565.0	2592.6	2599.5	2616.8	2603.0	2596.0	2599.5
52.5°	2250.0	2277.6	2270.6	2277.6	2260.4	2253.4	2256.8
55°	1928.0	1941.8	1941.8	1941.8	1921.1	1921.1	1921.1
57.5°	1599.1	1602.7	1595.7	1599.1	1595.7	1574.9	1571.5
60°	1298.1	1298.1	1294.5	1298.1	1287.7	1277.3	1277.3
62.5°	1014.1	1021.1	1034.9	1021.1	1014.1	1021.1	1010.7
65°	758.1	771.9	768.4	775.3	771.9	771.9	764.9
67.5°	571.2	574.6	578.0	581.6	581.6	581.6	581.6
70°	418.9	429.3	425.7	425.7	425.7	425.7	446.5
72.5°	280.4	294.2	290.8	297.6	297.6	304.6	297.6
75°	190.3	204.2	197.3	207.7	204.2	197.3	214.6
77.5°	128.1	135.1	138.5	141.9	138.5	135.1	138.5
80°	90.0	96.9	93.5	96.9	96.9	96.9	100.4
82.5°	55.4	65.8	62.3	65.8	62.3	65.8	65.8
85°	38.0	41.6	34.6	41.6	38.0	38.0	45.0
87.5°	24.2	20.8	20.8	24.2	20.8	24.2	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)