

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: P248566

Luminaire Tested: **LD8B150D010 ER8B150835 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248566
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 ER8B150835 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16252.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

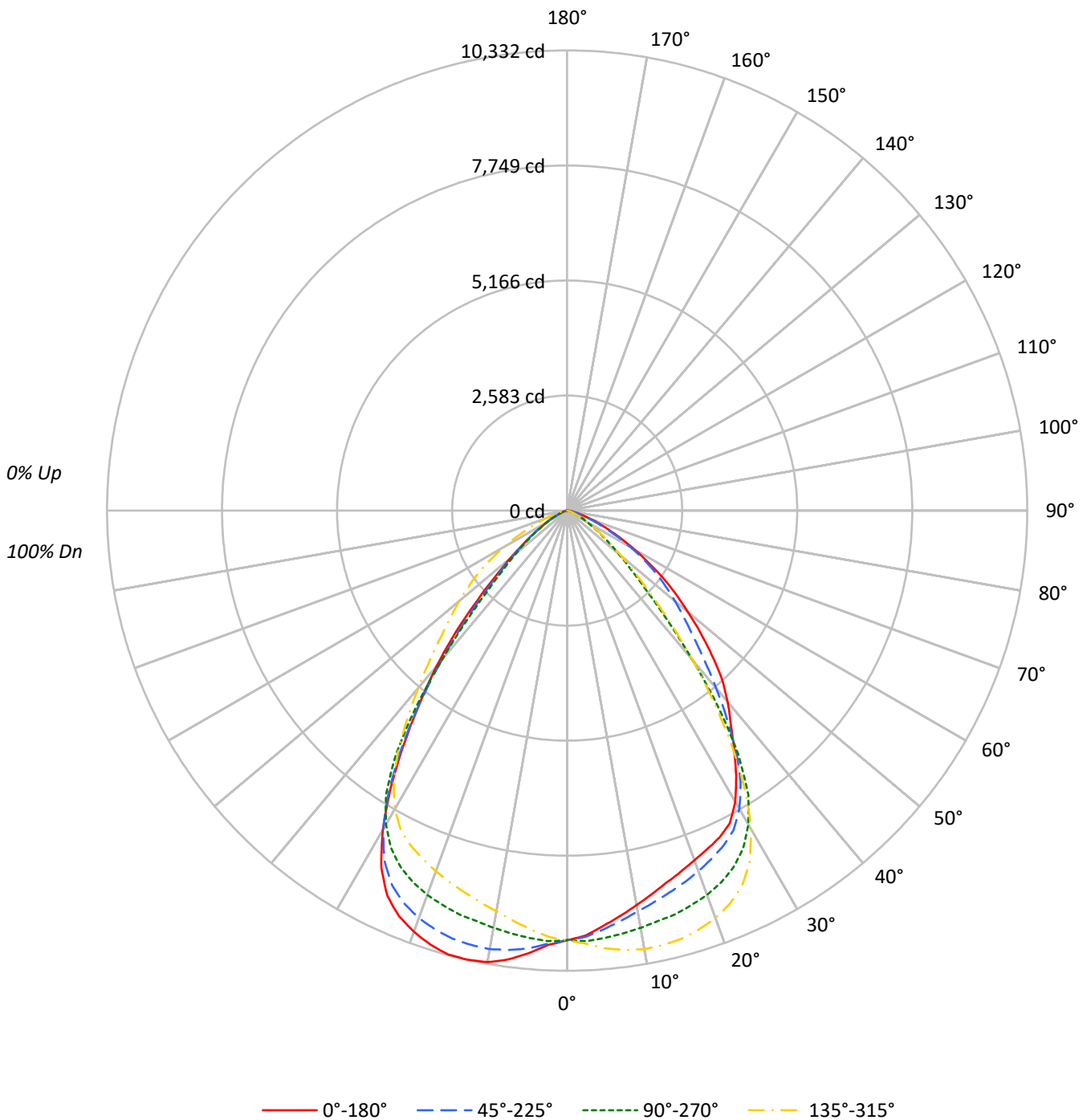
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	297518	297518	297518	297518
5°	289616	298215	308863	298215
10°	281605	297827	322313	297827
15°	275977	299595	329371	299595
20°	274100	301307	330217	301307
25°	275541	300702	324910	300702
30°	268727	289696	294902	289696
35°	245801	252713	239771	252713
40°	225672	175793	183574	175793
45°	200515	107244	124090	107244
50°	169723	71638	79553	71638
55°	140570	48885	51665	48885
60°	107212	32538	32828	32538
65°	75964	20277	18562	20277
70°	54790	13587	12325	13587
75°	34790	6743	5612	6743
80°	24275	5025	4173	5025
85°	21688	0	1663	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.3	5.7
10°-20°	2659.3	16.4
20°-30°	4026.8	24.8
30°-40°	4035.8	24.8
40°-50°	2534.3	15.6
50°-60°	1350.5	8.3
60°-70°	555.4	3.4
70°-80°	146.7	0.9
80°-90°	24.8	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°	7604.5	46.8
0°-40°	11640.3	71.6
0°-60°	15525.1	95.5
0°-90°	16252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16252.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9648	9648	9648	9648	9648	
5°	9356	9634	9978	9634	9356	882
15°	8645	9385	10317	9385	8645	2445
25°	8098	8838	9549	8838	8098	3714
35°	6530	6713	6369	6713	6530	4091
45°	4598	2459	2846	2459	4598	3536
55°	2615	909	961	909	2615	2331
65°	1041	278	254	278	1041	1080
75°	292	57	47	57	292	331
85°	61	0	5	0	61	67
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°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9549.4	9539.9	9535.2	9544.7	9549.4	9568.2	9563.6	9572.9	9572.9	9577.7	9587.0
5°	9356.3	9351.4	9356.3	9356.3	9375.1	9393.9	9389.2	9403.4	9412.7	9436.4	9445.7
7.5°	9177.3	9177.3	9172.4	9191.2	9200.7	9229.1	9224.2	9247.9	9262.0	9285.5	9318.5
10°	8993.5	8993.5	8998.1	9012.3	9017.1	9059.4	9059.4	9092.4	9111.2	9134.8	9177.3
12.5°	8814.5	8814.5	8842.8	8833.3	8852.1	8885.1	8899.2	8932.2	8960.5	9007.6	9050.1
15°	8644.8	8644.8	8654.3	8677.8	8691.9	8734.4	8757.9	8795.7	8828.6	8875.8	8937.0
17.5°	8498.8	8494.1	8498.8	8527.1	8555.4	8593.0	8611.8	8659.0	8691.9	8753.2	8809.8
20°	8352.8	8362.3	8362.3	8385.7	8404.5	8451.7	8470.5	8522.4	8560.1	8616.5	8682.6
22.5°	8225.6	8220.9	8220.9	8253.9	8268.0	8310.3	8329.1	8376.2	8418.7	8465.8	8527.1
25°	8098.4	8088.9	8107.9	8112.5	8121.8	8168.9	8183.1	8216.1	8258.5	8301.0	8362.3
27.5°	7909.9	7900.6	7905.2	7924.0	7938.2	7975.8	7985.3	8018.3	8051.2	8088.9	8140.8
30°	7547.1	7537.8	7533.1	7566.1	7580.2	7608.3	7622.5	7679.1	7688.4	7730.9	7768.5
32.5°	7066.6	7061.9	7071.4	7099.5	7113.7	7151.5	7170.3	7203.3	7226.7	7250.4	7288.0
35°	6529.6	6520.1	6529.6	6557.9	6557.9	6590.9	6605.0	6619.0	6614.3	6619.0	6609.7
37.5°	6030.3	6025.4	6030.3	6044.2	6030.3	6044.2	6030.3	6002.0	5950.2	5893.6	5837.0
40°	5606.2	5610.9	5582.7	5601.5	5549.6	5540.3	5488.5	5417.7	5314.2	5201.1	5040.9
42.5°	5154.0	5139.8	5121.0	5130.3	5088.1	5054.9	4970.2	4880.8	4748.7	4560.4	4367.1
45°	4598.0	4593.4	4583.9	4579.2	4550.9	4518.0	4447.2	4343.6	4197.6	4004.5	3773.5
47.5°	4056.3	4042.1	4042.1	4046.8	4013.8	4009.1	3952.5	3863.1	3735.9	3547.4	3307.2
50°	3537.9	3533.3	3542.8	3561.6	3537.9	3528.6	3491.0	3429.7	3316.7	3156.5	2930.2
52.5°	3071.6	3066.9	3076.4	3099.9	3090.4	3099.9	3062.3	3015.1	2939.7	2784.2	2586.4
55°	2614.7	2614.7	2614.7	2642.8	2642.8	2642.8	2624.0	2595.9	2525.1	2412.1	2228.4
57.5°	2138.9	2143.5	2171.8	2176.5	2171.8	2181.3	2176.5	2148.2	2101.2	2021.1	1879.8
60°	1738.4	1738.4	1752.6	1766.7	1761.9	1766.7	1766.7	1752.6	1705.5	1639.5	1526.5
62.5°	1375.6	1389.8	1380.3	1389.8	1408.6	1389.8	1380.3	1371.0	1338.0	1295.5	1201.3
65°	1041.1	1050.6	1050.6	1055.3	1045.8	1050.6	1031.8	1017.7	998.8	951.7	890.4
67.5°	791.5	791.5	791.5	791.5	786.7	782.0	777.4	763.2	730.3	711.5	645.3
70°	607.7	579.4	579.4	579.4	579.4	584.3	570.1	551.3	541.8	508.8	461.7
72.5°	405.1	414.6	405.1	405.1	395.8	400.4	381.6	372.1	362.8	344.0	315.7
75°	292.0	268.6	277.9	282.7	268.6	277.9	259.1	240.3	240.3	226.1	211.9
77.5°	188.5	183.8	188.5	193.1	188.5	183.8	174.3	164.8	164.8	160.2	146.0
80°	136.7	131.9	131.9	131.9	127.2	131.9	122.6	122.6	113.1	108.4	98.9
82.5°	89.6	89.6	84.7	89.6	84.7	89.6	75.4	75.4	75.4	70.6	61.3
85°	61.3	51.8	51.8	56.6	47.1	56.6	51.8	47.1	42.5	42.5	37.6
87.5°	28.3	33.0	28.3	33.0	28.3	28.3	33.0	28.3	28.3	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9601.2	9605.8	9605.8	9624.8	9634.1	9638.8	9638.8	9676.6	9662.5	9672.0	9681.3
5°	9464.7	9492.8	9502.3	9502.3	9554.1	9572.9	9591.7	9634.1	9638.8	9667.1	9700.1
7.5°	9332.6	9365.6	9384.6	9426.8	9459.8	9492.8	9549.4	9577.7	9605.8	9643.6	9685.9
10°	9205.4	9243.2	9280.8	9313.8	9365.6	9408.0	9445.7	9511.6	9544.7	9596.5	9653.0
12.5°	9083.0	9134.8	9167.8	9224.2	9280.8	9318.5	9375.1	9436.4	9488.1	9539.9	9605.8
15°	8974.6	9035.9	9073.5	9134.8	9196.1	9247.9	9309.1	9384.6	9422.2	9483.5	9544.7
17.5°	8856.7	8922.9	8970.0	9026.4	9101.9	9158.3	9210.2	9285.5	9332.6	9398.5	9469.3
20°	8734.4	8800.3	8856.7	8913.4	8988.8	9045.2	9106.5	9181.9	9233.7	9299.6	9356.3
22.5°	8588.4	8649.6	8710.7	8776.7	8852.1	8899.2	8970.0	9035.9	9092.4	9153.6	9210.2
25°	8399.9	8475.3	8522.4	8583.5	8644.8	8696.6	8772.0	8837.9	8885.1	8941.7	8993.5
27.5°	8178.4	8235.1	8272.7	8324.5	8385.7	8432.9	8489.3	8555.4	8602.5	8654.3	8691.9
30°	7801.5	7853.4	7886.4	7924.0	7985.3	8027.8	8074.9	8136.0	8168.9	8206.8	8239.7
32.5°	7306.8	7349.3	7368.1	7396.4	7438.9	7481.1	7518.9	7570.7	7584.9	7608.3	7608.3
35°	6590.9	6600.2	6595.5	6605.0	6623.8	6647.3	6680.3	6713.2	6732.1	6732.1	6718.1
37.5°	5752.2	5695.8	5634.5	5587.4	5573.2	5563.7	5582.7	5596.7	5615.7	5625.0	5601.5
40°	4880.8	4753.6	4616.9	4494.3	4409.6	4371.9	4357.8	4367.1	4367.1	4400.1	4400.1
42.5°	4131.7	3933.7	3731.3	3547.4	3424.9	3330.8	3288.4	3288.4	3293.0	3316.7	3330.8
45°	3509.8	3260.1	3024.4	2822.0	2652.3	2529.8	2473.4	2459.2	2454.5	2463.8	2496.8
47.5°	3034.0	2774.9	2529.8	2280.2	2101.2	1978.7	1926.9	1907.9	1889.1	1907.9	1912.8
50°	2661.8	2393.3	2134.2	1884.4	1696.0	1587.6	1521.6	1493.3	1488.7	1488.7	1498.2
52.5°	2322.5	2072.9	1813.9	1559.4	1361.5	1257.9	1196.6	1182.5	1163.7	1182.5	1182.5
55°	2002.1	1752.6	1498.2	1257.9	1092.9	984.7	928.1	909.3	899.8	913.9	913.9
57.5°	1653.7	1441.5	1206.1	989.3	824.5	749.1	706.6	683.2	678.3	687.8	678.3
60°	1356.8	1177.8	975.2	777.4	650.2	570.1	537.1	527.6	518.1	527.6	527.6
62.5°	1074.1	923.4	758.4	607.7	499.3	442.9	405.1	405.1	400.4	400.4	405.1
65°	796.2	678.3	560.6	433.4	348.7	306.2	277.9	277.9	273.2	277.9	273.2
67.5°	579.4	499.3	405.1	315.7	249.8	226.1	207.3	193.1	202.6	193.1	188.5
70°	424.1	358.0	292.0	240.3	193.1	169.7	155.5	150.7	141.4	141.4	141.4
72.5°	282.7	240.3	197.8	155.5	127.2	103.5	98.9	89.6	80.1	84.7	94.2
75°	188.5	160.2	141.4	113.1	84.7	84.7	56.6	56.6	47.1	56.6	42.5
77.5°	131.9	108.4	84.7	70.6	56.6	51.8	37.6	37.6	33.0	33.0	33.0
80°	94.2	80.1	61.3	51.8	37.6	37.6	33.0	28.3	23.5	23.5	28.3
82.5°	56.6	42.5	42.5	37.6	23.5	18.8	14.2	18.8	9.5	9.5	9.5
85°	33.0	28.3	23.5	14.2	9.5	9.5	4.7	0.0	4.7	4.7	0.0
87.5°	18.8	9.5	9.5	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.5
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°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9704.9	9700.1	9709.6	9709.6	9737.9	9733.0	9747.2	9747.2	9737.9	9742.5	9761.3
5°	9737.9	9752.0	9780.2	9803.8	9846.1	9865.1	9888.6	9912.2	9916.9	9931.0	9945.2
7.5°	9737.9	9785.0	9818.0	9860.2	9916.9	9949.8	10001.6	10044.1	10062.9	10086.3	10114.7
10°	9718.9	9766.0	9827.3	9874.4	9945.2	9997.0	10048.7	10114.7	10143.0	10180.6	10218.4
12.5°	9681.3	9733.0	9799.0	9860.2	9940.3	9987.5	10053.4	10114.7	10157.1	10208.9	10251.4
15°	9624.8	9685.9	9747.2	9808.5	9893.2	9949.8	10011.1	10081.7	10124.2	10180.6	10218.4
17.5°	9535.2	9601.2	9657.8	9714.2	9794.3	9860.2	9916.9	9982.8	10025.3	10072.4	10124.2
20°	9426.8	9488.1	9549.4	9596.5	9676.6	9733.0	9794.3	9855.6	9888.6	9898.1	9978.1
22.5°	9290.3	9332.6	9379.7	9455.2	9502.3	9554.1	9610.7	9667.1	9700.1	9752.0	9780.2
25°	9064.0	9106.5	9158.3	9191.2	9247.9	9290.3	9346.8	9408.0	9426.8	9464.7	9492.8
27.5°	8748.5	8772.0	8795.7	8823.8	8856.7	8880.4	8913.4	8941.7	8960.5	8979.3	8998.1
30°	8249.0	8249.0	8249.0	8230.2	8244.4	8258.5	8263.2	8258.5	8258.5	8253.9	8253.9
32.5°	7589.5	7551.9	7509.4	7471.8	7457.7	7438.9	7429.4	7415.2	7391.7	7377.6	7382.2
35°	6699.1	6614.3	6562.6	6515.5	6477.8	6449.5	6435.4	6421.2	6416.6	6397.7	6378.7
37.5°	5587.4	5526.1	5488.5	5460.2	5427.2	5398.9	5403.6	5408.4	5422.4	5413.1	5417.7
40°	4409.6	4395.4	4409.6	4376.6	4367.1	4376.6	4400.1	4433.2	4452.0	4470.8	4503.8
42.5°	3354.3	3377.8	3410.9	3410.9	3424.9	3443.9	3472.0	3524.0	3552.1	3585.0	3622.9
45°	2525.1	2553.4	2595.9	2609.9	2619.4	2642.8	2676.0	2718.3	2737.1	2765.4	2798.3
47.5°	1945.7	1964.5	1988.0	2011.6	2035.1	2044.6	2077.6	2077.6	2101.2	2120.0	2129.4
50°	1517.0	1535.8	1554.6	1568.8	1578.3	1592.4	1601.7	1615.9	1620.5	1630.0	1634.7
52.5°	1187.1	1210.8	1210.8	1220.1	1234.3	1248.4	1243.8	1248.4	1253.1	1253.1	1267.2
55°	928.1	928.1	942.2	942.2	951.7	946.9	951.7	951.7	951.7	951.7	956.4
57.5°	692.5	697.3	711.5	702.0	697.3	706.6	697.3	706.6	702.0	711.5	697.3
60°	532.3	532.3	537.1	537.1	541.8	541.8	541.8	537.1	537.1	532.3	532.3
62.5°	400.4	405.1	409.9	405.1	405.1	405.1	400.4	400.4	395.8	390.9	390.9
65°	268.6	263.9	273.2	263.9	268.6	268.6	263.9	268.6	254.4	259.1	254.4
67.5°	193.1	188.5	183.8	188.5	183.8	179.0	179.0	183.8	188.5	174.3	174.3
70°	127.2	131.9	127.2	131.9	136.7	136.7	131.9	127.2	131.9	122.6	127.2
72.5°	80.1	80.1	80.1	80.1	80.1	84.7	84.7	84.7	75.4	75.4	70.6
75°	37.6	51.8	42.5	37.6	51.8	51.8	47.1	47.1	42.5	42.5	42.5
77.5°	37.6	28.3	28.3	28.3	28.3	28.3	28.3	28.3	23.5	28.3	23.5
80°	18.8	18.8	18.8	14.2	18.8	18.8	23.5	18.8	18.8	14.2	23.5
82.5°	9.5	9.5	9.5	0.0	4.7	9.5	9.5	4.7	9.5	9.5	4.7
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: P248566

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9756.7	9752.0	9756.7	9761.3	9756.7	9752.0	9756.7	9761.3	9742.5	9737.9	9747.2
5°	9964.0	9964.0	9973.3	9978.1	9973.3	9964.0	9964.0	9945.2	9931.0	9916.9	9912.2
7.5°	10143.0	10152.5	10161.8	10166.4	10161.8	10152.5	10143.0	10114.7	10086.3	10062.9	10044.1
10°	10251.4	10265.5	10284.3	10293.6	10284.3	10265.5	10251.4	10218.4	10180.6	10143.0	10114.7
12.5°	10298.5	10312.6	10336.1	10331.5	10336.1	10312.6	10298.5	10251.4	10208.9	10157.1	10114.7
15°	10265.5	10284.3	10307.8	10317.3	10307.8	10284.3	10265.5	10218.4	10180.6	10124.2	10081.7
17.5°	10161.8	10190.1	10204.2	10218.4	10204.2	10190.1	10161.8	10124.2	10072.4	10025.3	9982.8
20°	10020.4	10039.4	10058.2	10062.9	10058.2	10039.4	10020.4	9978.1	9898.1	9888.6	9855.6
22.5°	9818.0	9832.1	9874.4	9860.2	9874.4	9832.1	9818.0	9780.2	9752.0	9700.1	9667.1
25°	9525.7	9539.9	9544.7	9549.4	9544.7	9539.9	9525.7	9492.8	9464.7	9426.8	9408.0
27.5°	9021.8	9021.8	9031.1	9035.9	9031.1	9021.8	9021.8	8998.1	8979.3	8960.5	8941.7
30°	8258.5	8258.5	8258.5	8282.2	8258.5	8258.5	8258.5	8253.9	8253.9	8258.5	8258.5
32.5°	7377.6	7368.1	7358.8	7368.1	7358.8	7368.1	7377.6	7382.2	7377.6	7391.7	7415.2
35°	6378.7	6374.1	6388.2	6369.4	6388.2	6374.1	6378.7	6378.7	6397.7	6416.6	6421.2
37.5°	5422.4	5413.1	5431.9	5413.1	5431.9	5413.1	5422.4	5417.7	5413.1	5422.4	5408.4
40°	4513.3	4522.6	4522.6	4560.4	4522.6	4522.6	4513.3	4503.8	4470.8	4452.0	4433.2
42.5°	3641.7	3670.0	3660.5	3688.8	3660.5	3670.0	3641.7	3622.9	3585.0	3552.1	3524.0
45°	2817.2	2836.2	2836.2	2845.5	2836.2	2836.2	2817.2	2798.3	2765.4	2737.1	2718.3
47.5°	2162.3	2162.3	2162.3	2167.2	2162.3	2162.3	2162.3	2129.4	2120.0	2101.2	2077.6
50°	1644.2	1648.8	1653.7	1658.3	1653.7	1648.8	1644.2	1634.7	1630.0	1620.5	1615.9
52.5°	1262.6	1267.2	1257.9	1267.2	1257.9	1267.2	1262.6	1267.2	1253.1	1253.1	1248.4
55°	956.4	951.7	956.4	961.0	956.4	951.7	956.4	956.4	951.7	951.7	951.7
57.5°	702.0	692.5	692.5	692.5	692.5	692.5	702.0	697.3	711.5	702.0	706.6
60°	523.0	527.6	527.6	532.3	527.6	527.6	523.0	532.3	532.3	537.1	537.1
62.5°	386.3	400.4	390.9	400.4	390.9	400.4	386.3	390.9	390.9	395.8	400.4
65°	249.8	249.8	249.8	254.4	249.8	249.8	249.8	254.4	259.1	254.4	268.6
67.5°	169.7	174.3	183.8	179.0	183.8	174.3	169.7	174.3	174.3	188.5	183.8
70°	136.7	122.6	122.6	136.7	122.6	122.6	136.7	127.2	122.6	131.9	127.2
72.5°	80.1	70.6	80.1	80.1	80.1	70.6	80.1	70.6	75.4	75.4	84.7
75°	42.5	37.6	33.0	47.1	33.0	37.6	42.5	42.5	42.5	42.5	47.1
77.5°	28.3	23.5	33.0	33.0	33.0	23.5	28.3	23.5	28.3	23.5	28.3
80°	14.2	18.8	14.2	23.5	14.2	18.8	14.2	23.5	14.2	18.8	18.8
82.5°	4.7	9.5	9.5	9.5	9.5	9.5	4.7	4.7	9.5	9.5	4.7
85°	0.0	9.5	4.7	4.7	4.7	9.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	4.7	0.0	0.0	4.7	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: P248566

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9747.2	9733.0	9737.9	9709.6	9709.6	9700.1	9704.9	9681.3	9672.0	9662.5	9676.6
5°	9888.6	9865.1	9846.1	9803.8	9780.2	9752.0	9737.9	9700.1	9667.1	9638.8	9634.1
7.5°	10001.6	9949.8	9916.9	9860.2	9818.0	9785.0	9737.9	9685.9	9643.6	9605.8	9577.7
10°	10048.7	9997.0	9945.2	9874.4	9827.3	9766.0	9718.9	9653.0	9596.5	9544.7	9511.6
12.5°	10053.4	9987.5	9940.3	9860.2	9799.0	9733.0	9681.3	9605.8	9539.9	9488.1	9436.4
15°	10011.1	9949.8	9893.2	9808.5	9747.2	9685.9	9624.8	9544.7	9483.5	9422.2	9384.6
17.5°	9916.9	9860.2	9794.3	9714.2	9657.8	9601.2	9535.2	9469.3	9398.5	9332.6	9285.5
20°	9794.3	9733.0	9676.6	9596.5	9549.4	9488.1	9426.8	9356.3	9299.6	9233.7	9181.9
22.5°	9610.7	9554.1	9502.3	9455.2	9379.7	9332.6	9290.3	9210.2	9153.6	9092.4	9035.9
25°	9346.8	9290.3	9247.9	9191.2	9158.3	9106.5	9064.0	8993.5	8941.7	8885.1	8837.9
27.5°	8913.4	8880.4	8856.7	8823.8	8795.7	8772.0	8748.5	8691.9	8654.3	8602.5	8555.4
30°	8263.2	8258.5	8244.4	8230.2	8249.0	8249.0	8249.0	8239.7	8206.8	8168.9	8136.0
32.5°	7429.4	7438.9	7457.7	7471.8	7509.4	7551.9	7589.5	7608.3	7608.3	7584.9	7570.7
35°	6435.4	6449.5	6477.8	6515.5	6562.6	6614.3	6699.1	6718.1	6732.1	6732.1	6713.2
37.5°	5403.6	5398.9	5427.2	5460.2	5488.5	5526.1	5587.4	5601.5	5625.0	5615.7	5596.7
40°	4400.1	4376.6	4367.1	4376.6	4409.6	4395.4	4409.6	4400.1	4400.1	4367.1	4367.1
42.5°	3472.0	3443.9	3424.9	3410.9	3410.9	3377.8	3354.3	3330.8	3316.7	3293.0	3288.4
45°	2676.0	2642.8	2619.4	2609.9	2595.9	2553.4	2525.1	2496.8	2463.8	2454.5	2459.2
47.5°	2077.6	2044.6	2035.1	2011.6	1988.0	1964.5	1945.7	1912.8	1907.9	1889.1	1907.9
50°	1601.7	1592.4	1578.3	1568.8	1554.6	1535.8	1517.0	1498.2	1488.7	1488.7	1493.3
52.5°	1243.8	1248.4	1234.3	1220.1	1210.8	1210.8	1187.1	1182.5	1182.5	1163.7	1182.5
55°	951.7	946.9	951.7	942.2	942.2	928.1	928.1	913.9	913.9	899.8	909.3
57.5°	697.3	706.6	697.3	702.0	711.5	697.3	692.5	678.3	687.8	678.3	683.2
60°	541.8	541.8	541.8	537.1	537.1	532.3	532.3	527.6	527.6	518.1	527.6
62.5°	400.4	405.1	405.1	405.1	409.9	405.1	400.4	405.1	400.4	400.4	405.1
65°	263.9	268.6	268.6	263.9	273.2	263.9	268.6	273.2	277.9	273.2	277.9
67.5°	179.0	179.0	183.8	188.5	183.8	188.5	193.1	188.5	193.1	202.6	193.1
70°	131.9	136.7	136.7	131.9	127.2	131.9	127.2	141.4	141.4	141.4	150.7
72.5°	84.7	84.7	80.1	80.1	80.1	80.1	80.1	94.2	84.7	80.1	89.6
75°	47.1	51.8	51.8	37.6	42.5	51.8	37.6	42.5	56.6	47.1	56.6
77.5°	28.3	28.3	28.3	28.3	28.3	28.3	37.6	33.0	33.0	33.0	37.6
80°	23.5	18.8	18.8	14.2	18.8	18.8	18.8	28.3	23.5	23.5	28.3
82.5°	9.5	9.5	4.7	0.0	9.5	9.5	9.5	9.5	9.5	9.5	18.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	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: P248566

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9638.8	9638.8	9634.1	9624.8	9605.8	9605.8	9601.2	9587.0	9577.7	9572.9	9572.9
5°	9591.7	9572.9	9554.1	9502.3	9502.3	9492.8	9464.7	9445.7	9436.4	9412.7	9403.4
7.5°	9549.4	9492.8	9459.8	9426.8	9384.6	9365.6	9332.6	9318.5	9285.5	9262.0	9247.9
10°	9445.7	9408.0	9365.6	9313.8	9280.8	9243.2	9205.4	9177.3	9134.8	9111.2	9092.4
12.5°	9375.1	9318.5	9280.8	9224.2	9167.8	9134.8	9083.0	9050.1	9007.6	8960.5	8932.2
15°	9309.1	9247.9	9196.1	9134.8	9073.5	9035.9	8974.6	8937.0	8875.8	8828.6	8795.7
17.5°	9210.2	9158.3	9101.9	9026.4	8970.0	8922.9	8856.7	8809.8	8753.2	8691.9	8659.0
20°	9106.5	9045.2	8988.8	8913.4	8856.7	8800.3	8734.4	8682.6	8616.5	8560.1	8522.4
22.5°	8970.0	8899.2	8852.1	8776.7	8710.7	8649.6	8588.4	8527.1	8465.8	8418.7	8376.2
25°	8772.0	8696.6	8644.8	8583.5	8522.4	8475.3	8399.9	8362.3	8301.0	8258.5	8216.1
27.5°	8489.3	8432.9	8385.7	8324.5	8272.7	8235.1	8178.4	8140.8	8088.9	8051.2	8018.3
30°	8074.9	8027.8	7985.3	7924.0	7886.4	7853.4	7801.5	7768.5	7730.9	7688.4	7679.1
32.5°	7518.9	7481.1	7438.9	7396.4	7368.1	7349.3	7306.8	7288.0	7250.4	7226.7	7203.3
35°	6680.3	6647.3	6623.8	6605.0	6595.5	6600.2	6590.9	6609.7	6619.0	6614.3	6619.0
37.5°	5582.7	5563.7	5573.2	5587.4	5634.5	5695.8	5752.2	5837.0	5893.6	5950.2	6002.0
40°	4357.8	4371.9	4409.6	4494.3	4616.9	4753.6	4880.8	5040.9	5201.1	5314.2	5417.7
42.5°	3288.4	3330.8	3424.9	3547.4	3731.3	3933.7	4131.7	4367.1	4560.4	4748.7	4880.8
45°	2473.4	2529.8	2652.3	2822.0	3024.4	3260.1	3509.8	3773.5	4004.5	4197.6	4343.6
47.5°	1926.9	1978.7	2101.2	2280.2	2529.8	2774.9	3034.0	3307.2	3547.4	3735.9	3863.1
50°	1521.6	1587.6	1696.0	1884.4	2134.2	2393.3	2661.8	2930.2	3156.5	3316.7	3429.7
52.5°	1196.6	1257.9	1361.5	1559.4	1813.9	2072.9	2322.5	2586.4	2784.2	2939.7	3015.1
55°	928.1	984.7	1092.9	1257.9	1498.2	1752.6	2002.1	2228.4	2412.1	2525.1	2595.9
57.5°	706.6	749.1	824.5	989.3	1206.1	1441.5	1653.7	1879.8	2021.1	2101.2	2148.2
60°	537.1	570.1	650.2	777.4	975.2	1177.8	1356.8	1526.5	1639.5	1705.5	1752.6
62.5°	405.1	442.9	499.3	607.7	758.4	923.4	1074.1	1201.3	1295.5	1338.0	1371.0
65°	277.9	306.2	348.7	433.4	560.6	678.3	796.2	890.4	951.7	998.8	1017.7
67.5°	207.3	226.1	249.8	315.7	405.1	499.3	579.4	645.3	711.5	730.3	763.2
70°	155.5	169.7	193.1	240.3	292.0	358.0	424.1	461.7	508.8	541.8	551.3
72.5°	98.9	103.5	127.2	155.5	197.8	240.3	282.7	315.7	344.0	362.8	372.1
75°	56.6	84.7	84.7	113.1	141.4	160.2	188.5	211.9	226.1	240.3	240.3
77.5°	37.6	51.8	56.6	70.6	84.7	108.4	131.9	146.0	160.2	164.8	164.8
80°	33.0	37.6	37.6	51.8	61.3	80.1	94.2	98.9	108.4	113.1	122.6
82.5°	14.2	18.8	23.5	37.6	42.5	42.5	56.6	61.3	70.6	75.4	75.4
85°	4.7	9.5	9.5	14.2	23.5	28.3	33.0	37.6	42.5	42.5	47.1
87.5°	4.7	4.7	0.0	4.7	9.5	9.5	18.8	18.8	18.8	28.3	28.3
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: P248566

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3	9648.3
2.5°	9563.6	9568.2	9549.4	9544.7	9535.2	9539.9	9549.4
5°	9389.2	9393.9	9375.1	9356.3	9356.3	9351.4	9356.3
7.5°	9224.2	9229.1	9200.7	9191.2	9172.4	9177.3	9177.3
10°	9059.4	9059.4	9017.1	9012.3	8998.1	8993.5	8993.5
12.5°	8899.2	8885.1	8852.1	8833.3	8842.8	8814.5	8814.5
15°	8757.9	8734.4	8691.9	8677.8	8654.3	8644.8	8644.8
17.5°	8611.8	8593.0	8555.4	8527.1	8498.8	8494.1	8498.8
20°	8470.5	8451.7	8404.5	8385.7	8362.3	8362.3	8352.8
22.5°	8329.1	8310.3	8268.0	8253.9	8220.9	8220.9	8225.6
25°	8183.1	8168.9	8121.8	8112.5	8107.9	8088.9	8098.4
27.5°	7985.3	7975.8	7938.2	7924.0	7905.2	7900.6	7909.9
30°	7622.5	7608.3	7580.2	7566.1	7533.1	7537.8	7547.1
32.5°	7170.3	7151.5	7113.7	7099.5	7071.4	7061.9	7066.6
35°	6605.0	6590.9	6557.9	6557.9	6529.6	6520.1	6529.6
37.5°	6030.3	6044.2	6030.3	6044.2	6030.3	6025.4	6030.3
40°	5488.5	5540.3	5549.6	5601.5	5582.7	5610.9	5606.2
42.5°	4970.2	5054.9	5088.1	5130.3	5121.0	5139.8	5154.0
45°	4447.2	4518.0	4550.9	4579.2	4583.9	4593.4	4598.0
47.5°	3952.5	4009.1	4013.8	4046.8	4042.1	4042.1	4056.3
50°	3491.0	3528.6	3537.9	3561.6	3542.8	3533.3	3537.9
52.5°	3062.3	3099.9	3090.4	3099.9	3076.4	3066.9	3071.6
55°	2624.0	2642.8	2642.8	2642.8	2614.7	2614.7	2614.7
57.5°	2176.5	2181.3	2171.8	2176.5	2171.8	2143.5	2138.9
60°	1766.7	1766.7	1761.9	1766.7	1752.6	1738.4	1738.4
62.5°	1380.3	1389.8	1408.6	1389.8	1380.3	1389.8	1375.6
65°	1031.8	1050.6	1045.8	1055.3	1050.6	1050.6	1041.1
67.5°	777.4	782.0	786.7	791.5	791.5	791.5	791.5
70°	570.1	584.3	579.4	579.4	579.4	579.4	607.7
72.5°	381.6	400.4	395.8	405.1	405.1	414.6	405.1
75°	259.1	277.9	268.6	282.7	277.9	268.6	292.0
77.5°	174.3	183.8	188.5	193.1	188.5	183.8	188.5
80°	122.6	131.9	127.2	131.9	131.9	131.9	136.7
82.5°	75.4	89.6	84.7	89.6	84.7	89.6	89.6
85°	51.8	56.6	47.1	56.6	51.8	51.8	61.3
87.5°	33.0	28.3	28.3	33.0	28.3	33.0	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)