

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: P248863

Luminaire Tested: **LD8B150D010 ER8B1509730 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248863
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 ER8B1509730 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11080.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

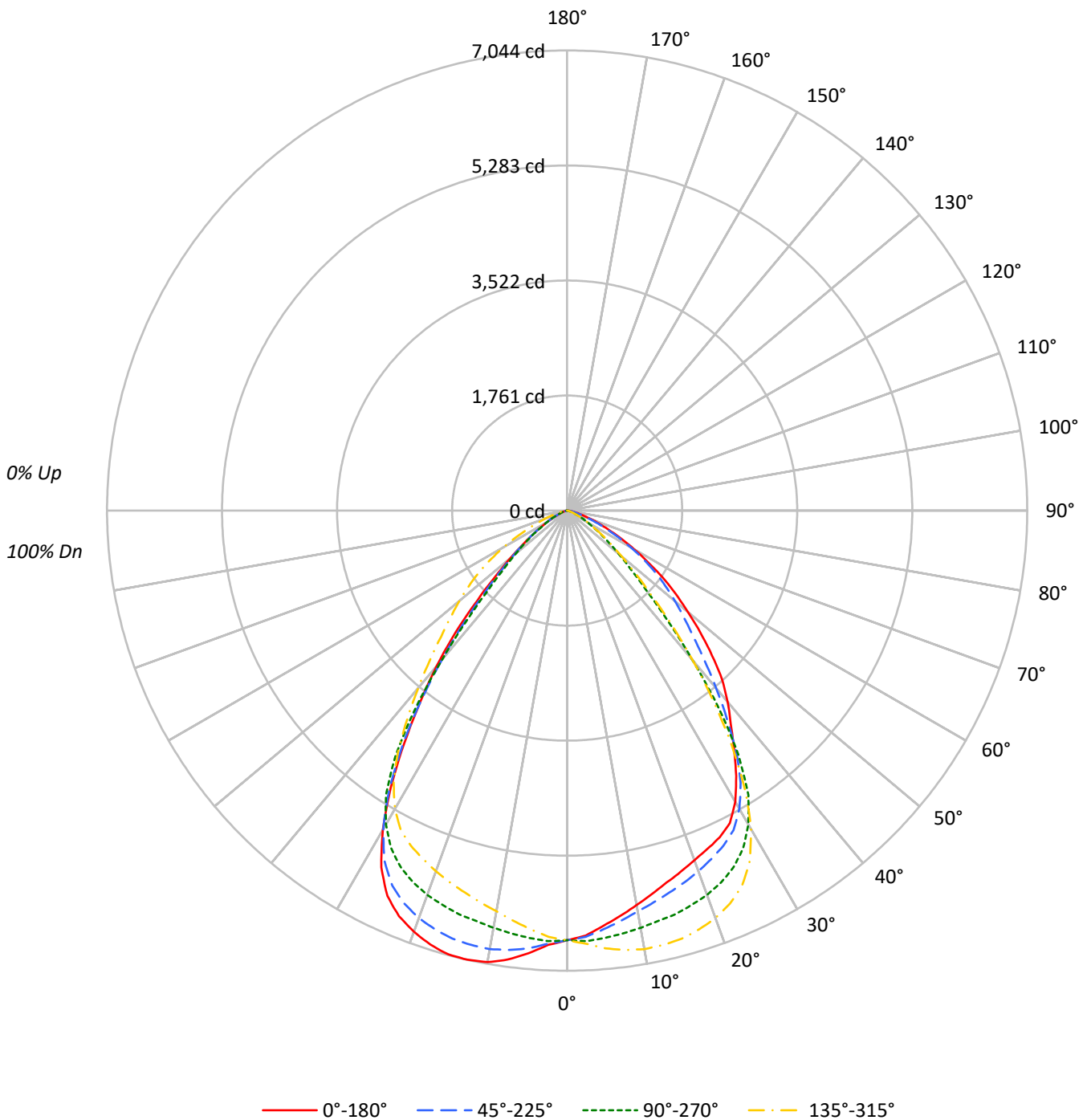
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.1	5.7
10°-20°	1813.0	16.4
20°-30°	2745.3	24.8
30°-40°	2751.5	24.8
40°-50°	1727.8	15.6
50°-60°	920.7	8.3
60°-70°	378.6	3.4
70°-80°	100.0	0.9
80°-90°	16.9	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°	5184.4	46.8
0°-40°	7935.9	71.6
0°-60°	10584.4	95.5
0°-90°	11080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11080.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6578	6578	6578	6578	6578	
5°	6379	6568	6803	6568	6379	602
15°	5894	6398	7034	6398	5894	1667
25°	5521	6025	6510	6025	5521	2532
35°	4452	4577	4342	4577	4452	2789
45°	3135	1677	1940	1677	3135	2411
55°	1783	620	655	620	1783	1589
65°	710	189	173	189	710	736
75°	199	39	32	39	199	226
85°	42	0	3	0	42	46
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°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6510.4	6503.9	6500.8	6507.2	6510.4	6523.2	6520.1	6526.4	6526.4	6529.7	6536.1
5°	6378.7	6375.4	6378.7	6378.7	6391.6	6404.4	6401.2	6410.9	6417.2	6433.3	6439.7
7.5°	6256.7	6256.7	6253.4	6266.2	6272.7	6292.0	6288.7	6304.8	6314.5	6330.5	6353.0
10°	6131.4	6131.4	6134.6	6144.2	6147.5	6176.3	6176.3	6198.8	6211.6	6227.8	6256.7
12.5°	6009.4	6009.4	6028.7	6022.2	6035.0	6057.5	6067.1	6089.6	6108.9	6141.0	6170.0
15°	5893.7	5893.7	5900.2	5916.2	5925.8	5954.8	5970.8	5996.6	6019.0	6051.2	6092.9
17.5°	5794.2	5791.0	5794.2	5813.5	5832.8	5858.4	5871.2	5903.4	5925.8	5967.6	6006.2
20°	5694.6	5701.1	5701.1	5717.1	5729.9	5762.0	5774.8	5810.3	5835.9	5874.4	5919.5
22.5°	5607.9	5604.7	5604.7	5627.2	5636.8	5665.7	5678.5	5710.6	5739.6	5771.7	5813.5
25°	5521.2	5514.7	5527.6	5530.8	5537.2	5569.3	5578.9	5601.4	5630.4	5659.3	5701.1
27.5°	5392.7	5386.3	5389.5	5402.3	5412.0	5437.6	5444.1	5466.6	5489.0	5514.7	5550.1
30°	5145.3	5139.0	5135.8	5158.3	5167.9	5187.1	5196.7	5235.3	5241.7	5270.6	5296.3
32.5°	4817.7	4814.5	4821.0	4840.2	4849.8	4875.6	4888.4	4910.9	4926.9	4943.0	4968.7
35°	4451.6	4445.2	4451.6	4470.9	4470.9	4493.4	4503.1	4512.6	4509.4	4512.6	4506.2
37.5°	4111.2	4107.9	4111.2	4120.7	4111.2	4120.7	4111.2	4091.9	4056.6	4018.0	3979.4
40°	3822.1	3825.3	3806.1	3818.9	3783.5	3777.1	3741.8	3693.6	3623.0	3545.9	3436.7
42.5°	3513.8	3504.1	3491.3	3497.7	3468.8	3446.2	3388.5	3327.5	3237.5	3109.1	2977.3
45°	3134.8	3131.6	3125.1	3122.0	3102.6	3080.2	3031.9	2961.3	2861.8	2730.1	2572.7
47.5°	2765.4	2755.8	2755.8	2758.9	2736.5	2733.3	2694.7	2633.7	2547.0	2418.5	2254.7
50°	2412.0	2408.9	2415.3	2428.2	2412.0	2405.7	2380.0	2338.3	2261.2	2152.0	1997.7
52.5°	2094.1	2090.9	2097.4	2113.4	2106.9	2113.4	2087.7	2055.6	2004.2	1898.2	1763.3
55°	1782.6	1782.6	1782.6	1801.8	1801.8	1801.8	1789.0	1769.8	1721.5	1644.5	1519.3
57.5°	1458.2	1461.4	1480.7	1483.8	1480.7	1487.1	1483.8	1464.5	1432.5	1377.9	1281.6
60°	1185.2	1185.2	1194.8	1204.5	1201.2	1204.5	1204.5	1194.8	1162.7	1117.8	1040.7
62.5°	937.8	947.5	941.0	947.5	960.3	947.5	941.0	934.7	912.2	883.2	819.0
65°	709.8	716.3	716.3	719.4	713.0	716.3	703.4	693.8	681.0	648.8	607.1
67.5°	539.6	539.6	539.6	539.6	536.3	533.2	530.0	520.3	497.9	485.0	440.0
70°	414.3	395.0	395.0	395.0	395.0	398.3	388.7	375.9	369.4	346.9	314.8
72.5°	276.2	282.6	276.2	276.2	269.8	273.0	260.2	253.7	247.4	234.5	215.2
75°	199.1	183.1	189.4	192.8	183.1	189.4	176.6	163.8	163.8	154.1	144.5
77.5°	128.5	125.3	128.5	131.7	128.5	125.3	118.8	112.4	112.4	109.2	99.5
80°	93.2	89.9	89.9	89.9	86.7	89.9	83.6	83.6	77.1	73.9	67.4
82.5°	61.1	61.1	57.8	61.1	57.8	61.1	51.4	51.4	51.4	48.1	41.8
85°	41.8	35.3	35.3	38.6	32.1	38.6	35.3	32.1	29.0	29.0	25.6
87.5°	19.3	22.5	19.3	22.5	19.3	19.3	22.5	19.3	19.3	12.8	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



TEST NUMBER: P248863

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6545.7	6548.9	6548.9	6561.8	6568.2	6571.4	6571.4	6597.1	6587.5	6594.0	6600.3
5°	6452.6	6471.8	6478.3	6478.3	6513.6	6526.4	6539.2	6568.2	6571.4	6590.7	6613.1
7.5°	6362.6	6385.1	6398.1	6426.9	6449.3	6471.8	6510.4	6529.7	6548.9	6574.7	6603.5
10°	6275.9	6301.7	6327.3	6349.8	6385.1	6414.0	6439.7	6484.6	6507.2	6542.5	6581.0
12.5°	6192.5	6227.8	6250.2	6288.7	6327.3	6353.0	6391.6	6433.3	6468.6	6503.9	6548.9
15°	6118.6	6160.4	6186.0	6227.8	6269.5	6304.8	6346.6	6398.1	6423.7	6465.5	6507.2
17.5°	6038.2	6083.3	6115.4	6153.9	6205.3	6243.8	6279.2	6330.5	6362.6	6407.6	6455.8
20°	5954.8	5999.7	6038.2	6076.8	6128.2	6166.7	6208.5	6259.9	6295.2	6340.1	6378.7
22.5°	5855.2	5897.0	5938.6	5983.6	6035.0	6067.1	6115.4	6160.4	6198.8	6240.6	6279.2
25°	5726.7	5778.2	5810.3	5851.9	5893.7	5929.0	5980.4	6025.4	6057.5	6096.1	6131.4
27.5°	5575.8	5614.4	5640.0	5675.3	5717.1	5749.2	5787.7	5832.8	5864.9	5900.2	5925.8
30°	5318.8	5354.2	5376.7	5402.3	5444.1	5473.0	5505.2	5546.8	5569.3	5595.1	5617.5
32.5°	4981.5	5010.5	5023.3	5042.6	5071.5	5100.4	5126.1	5161.4	5171.1	5187.1	5187.1
35°	4493.4	4499.8	4496.6	4503.1	4515.9	4531.9	4554.4	4576.8	4589.7	4589.7	4580.1
37.5°	3921.6	3883.2	3841.4	3809.3	3799.6	3793.1	3806.1	3815.6	3828.6	3834.9	3818.9
40°	3327.5	3240.8	3147.6	3064.0	3006.3	2980.6	2971.0	2977.3	2977.3	2999.8	2999.8
42.5°	2816.8	2681.9	2543.8	2418.5	2335.0	2270.8	2241.9	2241.9	2245.1	2261.2	2270.8
45°	2392.9	2222.6	2062.0	1923.9	1808.3	1724.7	1686.2	1676.6	1673.4	1679.8	1702.2
47.5°	2068.4	1891.8	1724.7	1554.6	1432.5	1349.0	1313.7	1300.7	1287.9	1300.7	1304.0
50°	1814.7	1631.6	1455.0	1284.7	1156.2	1082.3	1037.4	1018.1	1014.9	1014.9	1021.4
52.5°	1583.4	1413.2	1236.6	1063.2	928.2	857.6	815.8	806.2	793.3	806.2	806.2
55°	1365.0	1194.8	1021.4	857.6	745.1	671.3	632.7	619.9	613.4	623.1	623.1
57.5°	1127.4	982.8	822.3	674.5	562.1	510.7	481.7	465.7	462.4	468.9	462.4
60°	925.0	803.0	664.8	530.0	443.3	388.7	366.2	359.7	353.2	359.7	359.7
62.5°	732.3	629.5	517.0	414.3	340.4	301.9	276.2	276.2	273.0	273.0	276.2
65°	542.8	462.4	382.2	295.5	237.7	208.7	189.4	189.4	186.3	189.4	186.3
67.5°	395.0	340.4	276.2	215.2	170.3	154.1	141.3	131.7	138.2	131.7	128.5
70°	289.1	244.0	199.1	163.8	131.7	115.7	106.0	102.7	96.4	96.4	96.4
72.5°	192.8	163.8	134.8	106.0	86.7	70.6	67.4	61.1	54.6	57.8	64.3
75°	128.5	109.2	96.4	77.1	57.8	57.8	38.6	38.6	32.1	38.6	29.0
77.5°	89.9	73.9	57.8	48.1	38.6	35.3	25.6	25.6	22.5	22.5	22.5
80°	64.3	54.6	41.8	35.3	25.6	25.6	22.5	19.3	16.0	16.0	19.3
82.5°	38.6	29.0	29.0	25.6	16.0	12.8	9.7	12.8	6.5	6.5	6.5
85°	22.5	19.3	16.0	9.7	6.5	6.5	3.2	0.0	3.2	3.2	0.0
87.5°	12.8	6.5	6.5	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.5
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: P248863

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6616.4	6613.1	6619.6	6619.6	6638.9	6635.6	6645.3	6645.3	6638.9	6642.1	6654.9
5°	6638.9	6648.6	6667.7	6683.9	6712.7	6725.6	6741.6	6757.8	6760.9	6770.6	6780.2
7.5°	6638.9	6671.0	6693.5	6722.3	6760.9	6783.4	6818.7	6847.7	6860.5	6876.5	6895.8
10°	6626.0	6658.1	6699.9	6732.0	6780.2	6815.5	6850.8	6895.8	6915.1	6940.7	6966.5
12.5°	6600.3	6635.6	6680.6	6722.3	6776.9	6809.1	6854.0	6895.8	6924.7	6960.0	6989.0
15°	6561.8	6603.5	6645.3	6687.0	6744.8	6783.4	6825.2	6873.3	6902.3	6940.7	6966.5
17.5°	6500.8	6545.7	6584.3	6622.8	6677.4	6722.3	6760.9	6805.9	6834.8	6867.0	6902.3
20°	6426.9	6468.6	6510.4	6542.5	6597.1	6635.6	6677.4	6719.2	6741.6	6748.1	6802.7
22.5°	6333.8	6362.6	6394.7	6446.2	6478.3	6513.6	6552.2	6590.7	6613.1	6648.6	6667.7
25°	6179.5	6208.5	6243.8	6266.2	6304.8	6333.8	6372.3	6414.0	6426.9	6452.6	6471.8
27.5°	5964.4	5980.4	5996.6	6015.7	6038.2	6054.3	6076.8	6096.1	6108.9	6121.7	6134.6
30°	5623.9	5623.9	5623.9	5611.1	5620.7	5630.4	5633.5	5630.4	5630.4	5627.2	5627.2
32.5°	5174.3	5148.6	5119.7	5094.0	5084.4	5071.5	5065.1	5055.4	5039.4	5029.8	5032.9
35°	4567.2	4509.4	4474.1	4442.0	4416.3	4397.0	4387.4	4377.7	4374.6	4361.7	4348.8
37.5°	3809.3	3767.5	3741.8	3722.5	3700.1	3680.8	3683.9	3687.2	3696.8	3690.4	3693.6
40°	3006.3	2996.6	3006.3	2983.8	2977.3	2983.8	2999.8	3022.4	3035.2	3048.1	3070.5
42.5°	2286.8	2302.8	2325.4	2325.4	2335.0	2347.9	2367.1	2402.5	2421.7	2444.2	2469.9
45°	1721.5	1740.8	1769.8	1779.3	1785.8	1801.8	1824.4	1853.2	1866.0	1885.3	1907.8
47.5°	1326.5	1339.3	1355.3	1371.5	1387.5	1393.9	1416.4	1416.4	1432.5	1445.4	1451.7
50°	1034.2	1047.0	1059.9	1069.5	1076.0	1085.6	1092.0	1101.6	1104.8	1111.3	1114.5
52.5°	809.3	825.5	825.5	831.8	841.5	851.1	847.9	851.1	854.3	854.3	863.9
55°	632.7	632.7	642.4	642.4	648.8	645.5	648.8	648.8	648.8	648.8	652.0
57.5°	472.1	475.4	485.0	478.6	475.4	481.7	475.4	481.7	478.6	485.0	475.4
60°	362.9	362.9	366.2	366.2	369.4	369.4	369.4	366.2	366.2	362.9	362.9
62.5°	273.0	276.2	279.5	276.2	276.2	276.2	273.0	273.0	269.8	266.5	266.5
65°	183.1	179.9	186.3	179.9	183.1	183.1	179.9	183.1	173.4	176.6	173.4
67.5°	131.7	128.5	125.3	128.5	125.3	122.0	122.0	125.3	128.5	118.8	118.8
70°	86.7	89.9	86.7	89.9	93.2	93.2	89.9	86.7	89.9	83.6	86.7
72.5°	54.6	54.6	54.6	54.6	54.6	57.8	57.8	57.8	51.4	51.4	48.1
75°	25.6	35.3	29.0	25.6	35.3	35.3	32.1	32.1	29.0	29.0	29.0
77.5°	25.6	19.3	19.3	19.3	19.3	19.3	19.3	19.3	16.0	19.3	16.0
80°	12.8	12.8	12.8	9.7	12.8	12.8	16.0	12.8	12.8	9.7	16.0
82.5°	6.5	6.5	6.5	0.0	3.2	6.5	6.5	3.2	6.5	6.5	3.2
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: P248863

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6651.7	6648.6	6651.7	6654.9	6651.7	6648.6	6651.7	6654.9	6642.1	6638.9	6645.3
5°	6793.1	6793.1	6799.4	6802.7	6799.4	6793.1	6793.1	6780.2	6770.6	6760.9	6757.8
7.5°	6915.1	6921.6	6927.9	6931.1	6927.9	6921.6	6915.1	6895.8	6876.5	6860.5	6847.7
10°	6989.0	6998.6	7011.5	7017.8	7011.5	6998.6	6989.0	6966.5	6940.7	6915.1	6895.8
12.5°	7021.1	7030.8	7046.8	7043.6	7046.8	7030.8	7021.1	6989.0	6960.0	6924.7	6895.8
15°	6998.6	7011.5	7027.5	7033.9	7027.5	7011.5	6998.6	6966.5	6940.7	6902.3	6873.3
17.5°	6927.9	6947.2	6956.9	6966.5	6956.9	6947.2	6927.9	6902.3	6867.0	6834.8	6805.9
20°	6831.5	6844.5	6857.3	6860.5	6857.3	6844.5	6831.5	6802.7	6748.1	6741.6	6719.2
22.5°	6693.5	6703.2	6732.0	6722.3	6732.0	6703.2	6693.5	6667.7	6648.6	6613.1	6590.7
25°	6494.3	6503.9	6507.2	6510.4	6507.2	6503.9	6494.3	6471.8	6452.6	6426.9	6414.0
27.5°	6150.7	6150.7	6157.0	6160.4	6157.0	6150.7	6150.7	6134.6	6121.7	6108.9	6096.1
30°	5630.4	5630.4	5630.4	5646.5	5630.4	5630.4	5630.4	5627.2	5627.2	5630.4	5630.4
32.5°	5029.8	5023.3	5016.9	5023.3	5016.9	5023.3	5029.8	5032.9	5029.8	5039.4	5055.4
35°	4348.8	4345.6	4355.3	4342.4	4355.3	4345.6	4348.8	4348.8	4361.7	4374.6	4377.7
37.5°	3696.8	3690.4	3703.2	3690.4	3703.2	3690.4	3696.8	3693.6	3690.4	3696.8	3687.2
40°	3077.0	3083.3	3083.3	3109.1	3083.3	3083.3	3077.0	3070.5	3048.1	3035.2	3022.4
42.5°	2482.8	2502.1	2495.6	2514.9	2495.6	2502.1	2482.8	2469.9	2444.2	2421.7	2402.5
45°	1920.6	1933.6	1933.6	1939.9	1933.6	1933.6	1920.6	1907.8	1885.3	1866.0	1853.2
47.5°	1474.2	1474.2	1474.2	1477.5	1474.2	1474.2	1474.2	1451.7	1445.4	1432.5	1416.4
50°	1120.9	1124.1	1127.4	1130.6	1127.4	1124.1	1120.9	1114.5	1111.3	1104.8	1101.6
52.5°	860.8	863.9	857.6	863.9	857.6	863.9	860.8	863.9	854.3	854.3	851.1
55°	652.0	648.8	652.0	655.2	652.0	648.8	652.0	652.0	648.8	648.8	648.8
57.5°	478.6	472.1	472.1	472.1	472.1	472.1	478.6	475.4	485.0	478.6	481.7
60°	356.5	359.7	359.7	362.9	359.7	359.7	356.5	362.9	362.9	366.2	366.2
62.5°	263.3	273.0	266.5	273.0	266.5	273.0	263.3	266.5	266.5	269.8	273.0
65°	170.3	170.3	170.3	173.4	170.3	170.3	170.3	173.4	176.6	173.4	183.1
67.5°	115.7	118.8	125.3	122.0	125.3	118.8	115.7	118.8	118.8	128.5	125.3
70°	93.2	83.6	83.6	93.2	83.6	83.6	93.2	86.7	83.6	89.9	86.7
72.5°	54.6	48.1	54.6	54.6	54.6	48.1	54.6	48.1	51.4	51.4	57.8
75°	29.0	25.6	22.5	32.1	22.5	25.6	29.0	29.0	29.0	29.0	32.1
77.5°	19.3	16.0	22.5	22.5	22.5	16.0	19.3	16.0	19.3	16.0	19.3
80°	9.7	12.8	9.7	16.0	9.7	12.8	9.7	16.0	9.7	12.8	12.8
82.5°	3.2	6.5	6.5	6.5	6.5	6.5	3.2	3.2	6.5	6.5	3.2
85°	0.0	6.5	3.2	3.2	3.2	6.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	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: P248863

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6645.3	6635.6	6638.9	6619.6	6619.6	6613.1	6616.4	6600.3	6594.0	6587.5	6597.1
5°	6741.6	6725.6	6712.7	6683.9	6667.7	6648.6	6638.9	6613.1	6590.7	6571.4	6568.2
7.5°	6818.7	6783.4	6760.9	6722.3	6693.5	6671.0	6638.9	6603.5	6574.7	6548.9	6529.7
10°	6850.8	6815.5	6780.2	6732.0	6699.9	6658.1	6626.0	6581.0	6542.5	6507.2	6484.6
12.5°	6854.0	6809.1	6776.9	6722.3	6680.6	6635.6	6600.3	6548.9	6503.9	6468.6	6433.3
15°	6825.2	6783.4	6744.8	6687.0	6645.3	6603.5	6561.8	6507.2	6465.5	6423.7	6398.1
17.5°	6760.9	6722.3	6677.4	6622.8	6584.3	6545.7	6500.8	6455.8	6407.6	6362.6	6330.5
20°	6677.4	6635.6	6597.1	6542.5	6510.4	6468.6	6426.9	6378.7	6340.1	6295.2	6259.9
22.5°	6552.2	6513.6	6478.3	6446.2	6394.7	6362.6	6333.8	6279.2	6240.6	6198.8	6160.4
25°	6372.3	6333.8	6304.8	6266.2	6243.8	6208.5	6179.5	6131.4	6096.1	6057.5	6025.4
27.5°	6076.8	6054.3	6038.2	6015.7	5996.6	5980.4	5964.4	5925.8	5900.2	5864.9	5832.8
30°	5633.5	5630.4	5620.7	5611.1	5623.9	5623.9	5623.9	5617.5	5595.1	5569.3	5546.8
32.5°	5065.1	5071.5	5084.4	5094.0	5119.7	5148.6	5174.3	5187.1	5187.1	5171.1	5161.4
35°	4387.4	4397.0	4416.3	4442.0	4474.1	4509.4	4567.2	4580.1	4589.7	4589.7	4576.8
37.5°	3683.9	3680.8	3700.1	3722.5	3741.8	3767.5	3809.3	3818.9	3834.9	3828.6	3815.6
40°	2999.8	2983.8	2977.3	2983.8	3006.3	2996.6	3006.3	2999.8	2999.8	2977.3	2977.3
42.5°	2367.1	2347.9	2335.0	2325.4	2325.4	2302.8	2286.8	2270.8	2261.2	2245.1	2241.9
45°	1824.4	1801.8	1785.8	1779.3	1769.8	1740.8	1721.5	1702.2	1679.8	1673.4	1676.6
47.5°	1416.4	1393.9	1387.5	1371.5	1355.3	1339.3	1326.5	1304.0	1300.7	1287.9	1300.7
50°	1092.0	1085.6	1076.0	1069.5	1059.9	1047.0	1034.2	1021.4	1014.9	1014.9	1018.1
52.5°	847.9	851.1	841.5	831.8	825.5	825.5	809.3	806.2	806.2	793.3	806.2
55°	648.8	645.5	648.8	642.4	642.4	632.7	632.7	623.1	623.1	613.4	619.9
57.5°	475.4	481.7	475.4	478.6	485.0	475.4	472.1	462.4	468.9	462.4	465.7
60°	369.4	369.4	369.4	366.2	366.2	362.9	362.9	359.7	359.7	353.2	359.7
62.5°	273.0	276.2	276.2	276.2	279.5	276.2	273.0	276.2	273.0	273.0	276.2
65°	179.9	183.1	183.1	179.9	186.3	179.9	183.1	186.3	189.4	186.3	189.4
67.5°	122.0	122.0	125.3	128.5	125.3	128.5	131.7	128.5	131.7	138.2	131.7
70°	89.9	93.2	93.2	89.9	86.7	89.9	86.7	96.4	96.4	96.4	102.7
72.5°	57.8	57.8	54.6	54.6	54.6	54.6	54.6	64.3	57.8	54.6	61.1
75°	32.1	35.3	35.3	25.6	29.0	35.3	25.6	29.0	38.6	32.1	38.6
77.5°	19.3	19.3	19.3	19.3	19.3	19.3	25.6	22.5	22.5	22.5	25.6
80°	16.0	12.8	12.8	9.7	12.8	12.8	12.8	19.3	16.0	16.0	19.3
82.5°	6.5	6.5	3.2	0.0	6.5	6.5	6.5	6.5	6.5	6.5	12.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	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: P248863

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6571.4	6571.4	6568.2	6561.8	6548.9	6548.9	6545.7	6536.1	6529.7	6526.4	6526.4
5°	6539.2	6526.4	6513.6	6478.3	6478.3	6471.8	6452.6	6439.7	6433.3	6417.2	6410.9
7.5°	6510.4	6471.8	6449.3	6426.9	6398.1	6385.1	6362.6	6353.0	6330.5	6314.5	6304.8
10°	6439.7	6414.0	6385.1	6349.8	6327.3	6301.7	6275.9	6256.7	6227.8	6211.6	6198.8
12.5°	6391.6	6353.0	6327.3	6288.7	6250.2	6227.8	6192.5	6170.0	6141.0	6108.9	6089.6
15°	6346.6	6304.8	6269.5	6227.8	6186.0	6160.4	6118.6	6092.9	6051.2	6019.0	5996.6
17.5°	6279.2	6243.8	6205.3	6153.9	6115.4	6083.3	6038.2	6006.2	5967.6	5925.8	5903.4
20°	6208.5	6166.7	6128.2	6076.8	6038.2	5999.7	5954.8	5919.5	5874.4	5835.9	5810.3
22.5°	6115.4	6067.1	6035.0	5983.6	5938.6	5897.0	5855.2	5813.5	5771.7	5739.6	5710.6
25°	5980.4	5929.0	5893.7	5851.9	5810.3	5778.2	5726.7	5701.1	5659.3	5630.4	5601.4
27.5°	5787.7	5749.2	5717.1	5675.3	5640.0	5614.4	5575.8	5550.1	5514.7	5489.0	5466.6
30°	5505.2	5473.0	5444.1	5402.3	5376.7	5354.2	5318.8	5296.3	5270.6	5241.7	5235.3
32.5°	5126.1	5100.4	5071.5	5042.6	5023.3	5010.5	4981.5	4968.7	4943.0	4926.9	4910.9
35°	4554.4	4531.9	4515.9	4503.1	4496.6	4499.8	4493.4	4506.2	4512.6	4509.4	4512.6
37.5°	3806.1	3793.1	3799.6	3809.3	3841.4	3883.2	3921.6	3979.4	4018.0	4056.6	4091.9
40°	2971.0	2980.6	3006.3	3064.0	3147.6	3240.8	3327.5	3436.7	3545.9	3623.0	3693.6
42.5°	2241.9	2270.8	2335.0	2418.5	2543.8	2681.9	2816.8	2977.3	3109.1	3237.5	3327.5
45°	1686.2	1724.7	1808.3	1923.9	2062.0	2222.6	2392.9	2572.7	2730.1	2861.8	2961.3
47.5°	1313.7	1349.0	1432.5	1554.6	1724.7	1891.8	2068.4	2254.7	2418.5	2547.0	2633.7
50°	1037.4	1082.3	1156.2	1284.7	1455.0	1631.6	1814.7	1997.7	2152.0	2261.2	2338.3
52.5°	815.8	857.6	928.2	1063.2	1236.6	1413.2	1583.4	1763.3	1898.2	2004.2	2055.6
55°	632.7	671.3	745.1	857.6	1021.4	1194.8	1365.0	1519.3	1644.5	1721.5	1769.8
57.5°	481.7	510.7	562.1	674.5	822.3	982.8	1127.4	1281.6	1377.9	1432.5	1464.5
60°	366.2	388.7	443.3	530.0	664.8	803.0	925.0	1040.7	1117.8	1162.7	1194.8
62.5°	276.2	301.9	340.4	414.3	517.0	629.5	732.3	819.0	883.2	912.2	934.7
65°	189.4	208.7	237.7	295.5	382.2	462.4	542.8	607.1	648.8	681.0	693.8
67.5°	141.3	154.1	170.3	215.2	276.2	340.4	395.0	440.0	485.0	497.9	520.3
70°	106.0	115.7	131.7	163.8	199.1	244.0	289.1	314.8	346.9	369.4	375.9
72.5°	67.4	70.6	86.7	106.0	134.8	163.8	192.8	215.2	234.5	247.4	253.7
75°	38.6	57.8	57.8	77.1	96.4	109.2	128.5	144.5	154.1	163.8	163.8
77.5°	25.6	35.3	38.6	48.1	57.8	73.9	89.9	99.5	109.2	112.4	112.4
80°	22.5	25.6	25.6	35.3	41.8	54.6	64.3	67.4	73.9	77.1	83.6
82.5°	9.7	12.8	16.0	25.6	29.0	29.0	38.6	41.8	48.1	51.4	51.4
85°	3.2	6.5	6.5	9.7	16.0	19.3	22.5	25.6	29.0	29.0	32.1
87.5°	3.2	3.2	0.0	3.2	6.5	6.5	12.8	12.8	12.8	19.3	19.3
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: P248863

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8	6577.8
2.5°	6520.1	6523.2	6510.4	6507.2	6500.8	6503.9	6510.4
5°	6401.2	6404.4	6391.6	6378.7	6378.7	6375.4	6378.7
7.5°	6288.7	6292.0	6272.7	6266.2	6253.4	6256.7	6256.7
10°	6176.3	6176.3	6147.5	6144.2	6134.6	6131.4	6131.4
12.5°	6067.1	6057.5	6035.0	6022.2	6028.7	6009.4	6009.4
15°	5970.8	5954.8	5925.8	5916.2	5900.2	5893.7	5893.7
17.5°	5871.2	5858.4	5832.8	5813.5	5794.2	5791.0	5794.2
20°	5774.8	5762.0	5729.9	5717.1	5701.1	5701.1	5694.6
22.5°	5678.5	5665.7	5636.8	5627.2	5604.7	5604.7	5607.9
25°	5578.9	5569.3	5537.2	5530.8	5527.6	5514.7	5521.2
27.5°	5444.1	5437.6	5412.0	5402.3	5389.5	5386.3	5392.7
30°	5196.7	5187.1	5167.9	5158.3	5135.8	5139.0	5145.3
32.5°	4888.4	4875.6	4849.8	4840.2	4821.0	4814.5	4817.7
35°	4503.1	4493.4	4470.9	4470.9	4451.6	4445.2	4451.6
37.5°	4111.2	4120.7	4111.2	4120.7	4111.2	4107.9	4111.2
40°	3741.8	3777.1	3783.5	3818.9	3806.1	3825.3	3822.1
42.5°	3388.5	3446.2	3468.8	3497.7	3491.3	3504.1	3513.8
45°	3031.9	3080.2	3102.6	3122.0	3125.1	3131.6	3134.8
47.5°	2694.7	2733.3	2736.5	2758.9	2755.8	2755.8	2765.4
50°	2380.0	2405.7	2412.0	2428.2	2415.3	2408.9	2412.0
52.5°	2087.7	2113.4	2106.9	2113.4	2097.4	2090.9	2094.1
55°	1789.0	1801.8	1801.8	1801.8	1782.6	1782.6	1782.6
57.5°	1483.8	1487.1	1480.7	1483.8	1480.7	1461.4	1458.2
60°	1204.5	1204.5	1201.2	1204.5	1194.8	1185.2	1185.2
62.5°	941.0	947.5	960.3	947.5	941.0	947.5	937.8
65°	703.4	716.3	713.0	719.4	716.3	716.3	709.8
67.5°	530.0	533.2	536.3	539.6	539.6	539.6	539.6
70°	388.7	398.3	395.0	395.0	395.0	395.0	414.3
72.5°	260.2	273.0	269.8	276.2	276.2	282.6	276.2
75°	176.6	189.4	183.1	192.8	189.4	183.1	199.1
77.5°	118.8	125.3	128.5	131.7	128.5	125.3	128.5
80°	83.6	89.9	86.7	89.9	89.9	89.9	93.2
82.5°	51.4	61.1	57.8	61.1	57.8	61.1	61.1
85°	35.3	38.6	32.1	38.6	35.3	35.3	41.8
87.5°	22.5	19.3	19.3	22.5	19.3	22.5	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)