

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: P249285

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209727 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8661.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

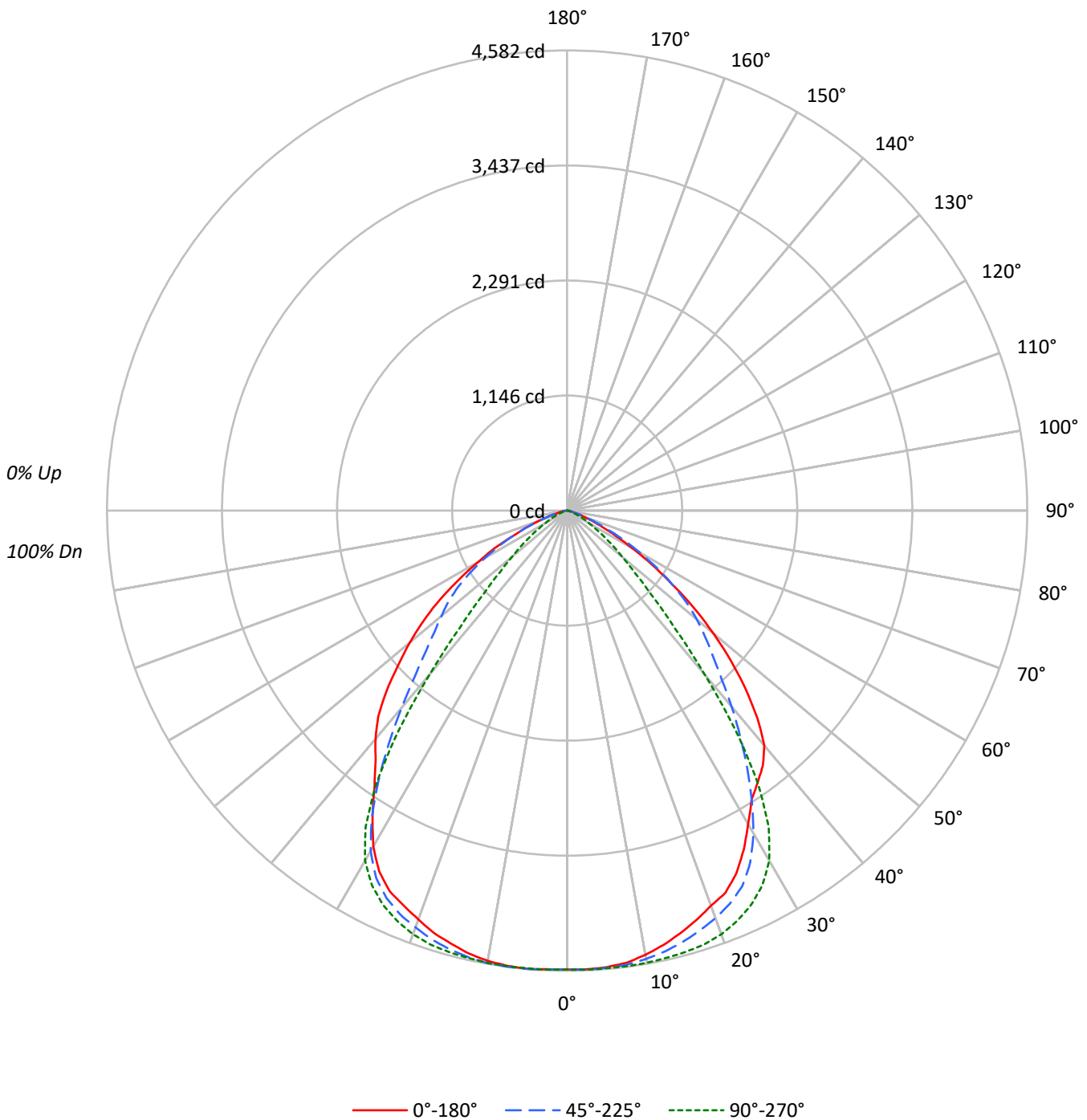
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	436.1	5.0
10°-20°	1266.5	14.6
20°-30°	1922.4	22.2
30°-40°	2019.1	23.3
40°-50°	1513.8	17.5
50°-60°	971.3	11.2
60°-70°	415.5	4.8
70°-80°	98.2	1.1
80°-90°	18.3	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°	3625.0	41.9
0°-40°	5644.1	65.2
0°-60°	8129.1	93.9
0°-90°	8661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4570	4570	4570	4570	4570	
5°	4562	4570	4575	4582	4580	433
15°	4356	4447	4550	4521	4464	1229
25°	3986	4126	4334	4256	4182	1821
35°	3306	3122	3309	3270	3343	2075
45°	2512	2053	1180	1994	2546	1924
55°	1271	1271	439	1324	1548	1153
65°	383	451	140	581	591	408
75°	59	69	20	118	115	86
85°	20	12	10	20	27	21
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°	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7
2.5°	4572.2	4577.1	4574.6	4574.6	4572.2	4574.6	4574.6	4579.6	4579.6	4574.6	4572.2
5°	4562.3	4567.3	4567.3	4562.3	4562.3	4574.6	4567.3	4572.2	4572.2	4569.7	4569.7
7.5°	4540.3	4540.3	4550.1	4542.8	4542.8	4550.1	4547.6	4552.5	4557.5	4559.9	4559.9
10°	4491.2	4496.1	4498.6	4498.6	4501.1	4508.4	4513.3	4523.1	4528.0	4532.9	4535.4
12.5°	4429.9	4437.3	4439.7	4437.3	4444.6	4454.4	4466.7	4479.0	4486.3	4496.1	4503.5
15°	4356.3	4356.3	4361.2	4368.6	4373.5	4388.2	4400.5	4415.2	4434.8	4447.1	4459.3
17.5°	4275.4	4280.3	4287.6	4287.6	4297.5	4322.0	4329.3	4351.4	4373.5	4385.8	4410.3
20°	4187.1	4192.0	4199.3	4204.3	4216.5	4236.1	4250.8	4270.5	4295.0	4317.1	4341.6
22.5°	4118.4	4108.6	4113.5	4118.4	4130.7	4147.8	4165.0	4189.5	4214.0	4236.1	4260.7
25°	3985.9	3988.4	3995.8	4000.6	4015.4	4030.1	4049.7	4079.1	4101.2	4125.8	4152.7
27.5°	3806.9	3809.3	3821.6	3821.6	3833.8	3858.4	3870.6	3895.2	3924.6	3949.1	3981.1
30°	3603.3	3608.2	3608.2	3618.0	3625.3	3637.6	3649.9	3674.4	3689.1	3711.2	3755.4
32.5°	3416.9	3421.7	3419.3	3416.9	3409.5	3407.0	3404.6	3409.5	3414.4	3421.7	3438.9
35°	3306.5	3294.2	3284.4	3267.3	3247.6	3223.1	3201.0	3171.6	3144.6	3122.5	3098.0
37.5°	3201.0	3198.5	3183.8	3159.3	3120.0	3075.9	3024.4	2960.6	2896.8	2828.2	2762.0
40°	3053.8	3046.5	3034.2	2999.9	2955.7	2901.8	2833.1	2754.6	2651.5	2546.1	2438.2
42.5°	2803.6	2806.1	2791.4	2764.4	2722.7	2671.2	2600.0	2514.2	2403.8	2278.7	2138.9
45°	2511.8	2511.8	2506.8	2484.7	2455.3	2413.6	2359.7	2288.5	2180.6	2053.0	1903.4
47.5°	2207.6	2210.0	2202.7	2197.8	2185.5	2158.5	2119.3	2065.3	1989.3	1866.6	1717.0
50°	1898.5	1898.5	1910.8	1908.3	1908.3	1898.5	1881.4	1849.5	1783.3	1685.1	1545.3
52.5°	1589.5	1594.4	1601.8	1611.5	1623.8	1643.4	1623.8	1609.1	1567.4	1491.3	1371.2
55°	1270.6	1275.5	1287.7	1304.9	1319.7	1339.3	1344.2	1344.2	1322.1	1270.6	1179.8
57.5°	998.3	991.0	1000.8	1015.5	1035.1	1054.8	1069.5	1086.6	1084.2	1049.8	976.3
60°	750.6	753.0	760.4	775.1	789.8	807.0	826.6	841.3	848.7	831.5	784.9
62.5°	547.0	547.0	556.8	571.5	578.9	603.4	615.7	623.0	630.4	627.9	598.5
65°	382.7	387.5	392.5	399.8	407.2	421.9	429.2	444.0	448.9	451.3	429.2
67.5°	269.8	262.5	267.4	272.2	279.6	289.5	304.2	304.2	311.5	311.5	296.8
70°	171.7	171.7	174.2	181.5	186.4	188.9	193.8	198.7	206.0	203.6	203.6
72.5°	115.3	112.8	115.3	117.8	120.2	127.5	127.5	130.0	134.9	137.4	127.5
75°	58.9	61.3	66.2	63.8	71.1	66.2	68.7	76.0	73.6	68.7	68.7
77.5°	49.0	49.0	49.0	46.6	51.5	51.5	49.0	54.0	51.5	51.5	49.0
80°	34.3	36.8	34.3	31.9	34.3	31.9	31.9	31.9	31.9	31.9	29.4
82.5°	27.0	22.1	24.5	22.1	24.5	24.5	22.1	19.6	19.6	22.1	19.6
85°	19.6	14.7	17.2	17.2	14.7	14.7	14.7	14.7	14.7	12.2	12.2
87.5°	12.2	7.4	7.4	7.4	9.8	9.8	9.8	7.4	9.8	9.8	4.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7
2.5°	4577.1	4574.6	4579.6	4577.1	4577.1	4574.6	4577.1	4574.6	4579.6	4569.7	4572.2
5°	4577.1	4572.2	4574.6	4577.1	4579.6	4574.6	4574.6	4574.6	4579.6	4574.6	4577.1
7.5°	4567.3	4564.8	4572.2	4577.1	4574.6	4572.2	4577.1	4574.6	4579.6	4577.1	4582.0
10°	4547.6	4550.1	4555.0	4562.3	4564.8	4567.3	4572.2	4572.2	4579.6	4569.7	4574.6
12.5°	4518.2	4528.0	4540.3	4545.2	4555.0	4555.0	4559.9	4562.3	4567.3	4564.8	4572.2
15°	4481.4	4493.7	4508.4	4520.7	4532.9	4540.3	4547.6	4550.1	4557.5	4550.1	4552.5
17.5°	4437.3	4452.0	4474.0	4488.8	4508.4	4515.8	4525.5	4530.5	4537.8	4532.9	4535.4
20°	4375.9	4393.1	4417.6	4439.7	4452.0	4469.1	4481.4	4488.8	4493.7	4488.8	4491.2
22.5°	4290.1	4314.6	4346.5	4363.7	4388.2	4402.9	4405.4	4422.5	4434.8	4422.5	4427.5
25°	4189.5	4214.0	4238.6	4275.4	4297.5	4314.6	4331.8	4334.3	4346.5	4344.0	4341.6
27.5°	4022.7	4054.6	4096.3	4125.8	4155.2	4182.2	4201.8	4206.7	4219.0	4214.0	4216.5
30°	3794.6	3829.0	3868.2	3914.8	3956.5	3983.5	4008.0	4025.2	4037.4	4030.1	4027.6
32.5°	3470.8	3505.2	3546.9	3593.5	3642.6	3681.7	3711.2	3733.3	3748.0	3743.1	3730.8
35°	3100.5	3110.3	3137.3	3174.1	3215.7	3257.4	3284.4	3308.9	3326.1	3331.0	3331.0
37.5°	2720.3	2688.4	2668.8	2668.8	2693.3	2710.4	2735.0	2749.7	2776.7	2786.5	2793.8
40°	2352.3	2278.7	2210.0	2158.5	2124.2	2121.8	2121.8	2129.1	2153.6	2185.5	2215.0
42.5°	2023.6	1905.9	1800.4	1704.8	1636.1	1596.8	1579.7	1582.1	1601.8	1631.2	1680.2
45°	1761.2	1614.0	1481.5	1366.3	1273.0	1211.7	1182.3	1179.8	1194.5	1228.9	1282.9
47.5°	1557.6	1400.6	1251.0	1118.5	1018.0	951.7	917.4	907.6	917.4	949.2	1013.0
50°	1388.3	1226.5	1071.9	934.5	826.6	758.0	726.0	713.8	726.0	753.0	816.8
52.5°	1231.3	1064.5	919.8	787.4	672.1	613.2	578.9	571.5	578.9	610.7	662.3
55°	1049.8	907.6	765.3	632.8	532.3	473.4	446.4	439.1	446.4	475.9	529.8
57.5°	870.8	748.1	623.0	502.8	417.0	365.5	341.0	331.1	348.3	367.9	431.7
60°	704.0	605.9	500.4	394.9	323.8	277.2	257.5	255.1	260.0	284.5	328.7
62.5°	551.9	471.0	387.5	301.7	242.8	223.2	198.7	196.3	201.1	215.8	250.2
65°	397.4	345.9	282.1	220.7	174.2	147.2	137.4	139.8	144.7	154.5	186.4
67.5°	277.2	240.4	196.3	154.5	120.2	107.9	98.1	95.7	98.1	115.3	132.5
70°	186.4	164.3	132.5	117.8	83.4	66.2	68.7	61.3	71.1	71.1	85.8
72.5°	122.6	107.9	88.3	68.7	58.9	46.6	46.6	44.2	49.0	51.5	63.8
75°	63.8	49.0	49.0	34.3	24.5	12.2	22.1	19.6	17.2	19.6	24.5
77.5°	44.2	36.8	34.3	27.0	24.5	19.6	19.6	19.6	19.6	22.1	24.5
80°	27.0	27.0	19.6	17.2	14.7	12.2	14.7	14.7	14.7	14.7	17.2
82.5°	17.2	14.7	14.7	12.2	12.2	9.8	9.8	9.8	9.8	9.8	14.7
85°	14.7	9.8	9.8	7.4	9.8	17.2	7.4	9.8	9.8	9.8	7.4
87.5°	4.9	7.4	7.4	7.4	4.9	2.5	4.9	7.4	7.4	12.2	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7	4569.7
2.5°	4577.1	4579.6	4579.6	4577.1	4577.1	4572.2	4582.0	4574.6	4577.1	4586.9	4579.6
5°	4582.0	4584.4	4584.4	4582.0	4582.0	4582.0	4584.4	4584.4	4582.0	4579.6	4584.4
7.5°	4591.8	4589.3	4589.3	4584.4	4584.4	4579.6	4584.4	4577.1	4582.0	4577.1	4584.4
10°	4579.6	4582.0	4579.6	4577.1	4577.1	4574.6	4574.6	4567.3	4569.7	4562.3	4567.3
12.5°	4572.2	4569.7	4569.7	4564.8	4559.9	4555.0	4552.5	4545.2	4545.2	4528.0	4535.4
15°	4552.5	4555.0	4547.6	4537.8	4532.9	4520.7	4515.8	4505.9	4496.1	4483.9	4486.3
17.5°	4535.4	4528.0	4518.2	4508.4	4488.8	4479.0	4469.1	4454.4	4449.5	4434.8	4429.9
20°	4483.9	4479.0	4466.7	4449.5	4437.3	4415.2	4405.4	4390.7	4378.4	4363.7	4356.3
22.5°	4417.6	4412.7	4398.0	4380.8	4361.2	4351.4	4341.6	4314.6	4302.3	4287.6	4285.2
25°	4334.3	4326.9	4312.2	4292.6	4282.7	4255.8	4245.9	4226.3	4221.4	4206.7	4204.3
27.5°	4206.7	4196.9	4179.7	4155.2	4138.0	4120.8	4111.1	4096.3	4091.4	4076.7	4074.3
30°	4015.4	4003.1	3968.8	3959.0	3929.5	3912.3	3912.3	3892.7	3895.2	3885.4	3885.4
32.5°	3713.7	3694.1	3667.0	3647.4	3627.8	3618.0	3618.0	3610.6	3615.5	3615.5	3620.5
35°	3313.8	3286.9	3272.1	3259.9	3259.9	3269.7	3299.1	3306.5	3321.2	3333.5	3343.3
37.5°	2801.2	2798.8	2815.9	2830.6	2867.4	2909.1	2960.6	3004.8	3046.5	3075.9	3105.3
40°	2246.8	2308.2	2357.2	2425.9	2482.3	2563.3	2656.5	2732.5	2803.6	2855.2	2909.1
42.5°	1753.8	1832.3	1935.3	2035.9	2136.5	2246.8	2369.5	2475.0	2568.2	2639.3	2695.7
45°	1366.3	1474.2	1599.3	1726.8	1856.8	1994.2	2121.8	2229.7	2327.8	2401.4	2457.8
47.5°	1101.3	1219.1	1361.3	1501.2	1648.3	1793.0	1935.3	2028.5	2109.5	2168.3	2219.9
50°	910.0	1035.1	1184.8	1344.2	1491.3	1636.1	1758.7	1849.5	1915.7	1967.2	1999.1
52.5°	760.4	892.8	1052.3	1211.7	1358.9	1491.3	1601.8	1670.4	1724.4	1761.2	1790.6
55°	627.9	755.5	905.1	1054.8	1199.5	1324.5	1415.3	1466.8	1508.5	1530.6	1547.7
57.5°	512.7	630.4	767.8	905.1	1030.2	1133.3	1204.4	1255.9	1275.5	1292.7	1290.2
60°	402.3	512.7	637.8	755.5	863.4	946.8	998.3	1027.7	1042.5	1049.8	1044.9
62.5°	316.4	417.0	512.7	615.7	694.2	765.3	814.4	814.4	821.7	824.2	831.5
65°	235.5	311.5	394.9	471.0	534.7	581.3	608.3	615.7	625.5	623.0	618.1
67.5°	174.2	230.6	291.9	348.3	392.5	421.9	441.5	458.7	456.3	451.3	448.9
70°	120.2	157.0	211.0	245.3	277.2	306.6	311.5	314.0	316.4	318.9	314.0
72.5°	83.4	110.4	139.8	169.3	188.9	201.1	213.4	215.8	215.8	215.8	213.4
75°	41.7	56.4	83.4	95.7	112.8	117.8	127.5	127.5	134.9	125.1	122.6
77.5°	36.8	44.2	58.9	68.7	76.0	83.4	85.8	93.2	90.7	85.8	88.3
80°	22.1	27.0	36.8	41.7	51.5	54.0	56.4	58.9	56.4	58.9	58.9
82.5°	17.2	19.6	24.5	24.5	31.9	31.9	34.3	34.3	36.8	36.8	36.8
85°	9.8	17.2	14.7	29.4	19.6	19.6	24.5	29.4	24.5	24.5	29.4
87.5°	9.8	9.8	7.4	9.8	9.8	9.8	12.2	14.7	14.7	17.2	14.7
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: P249285

CATALOG NUMBER: LSR8B120D010 EC8B1209727 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4569.7	4569.7	4569.7	4569.7
2.5°	4577.1	4582.0	4574.6	4572.2
5°	4584.4	4584.4	4579.6	4579.6
7.5°	4584.4	4584.4	4577.1	4572.2
10°	4564.8	4564.8	4557.5	4552.5
12.5°	4528.0	4528.0	4525.5	4518.2
15°	4481.4	4481.4	4471.6	4464.3
17.5°	4417.6	4422.5	4410.3	4410.3
20°	4349.0	4346.5	4336.7	4331.8
22.5°	4277.8	4272.9	4270.5	4255.8
25°	4201.8	4196.9	4189.5	4182.2
27.5°	4071.8	4069.3	4062.0	4052.2
30°	3873.1	3870.6	3860.8	3860.8
32.5°	3615.5	3613.1	3603.3	3605.8
35°	3348.2	3358.0	3353.1	3343.3
37.5°	3125.0	3132.3	3137.3	3132.3
40°	2938.5	2960.6	2963.1	2968.0
42.5°	2739.9	2769.3	2779.1	2784.0
45°	2501.9	2528.9	2551.0	2546.1
47.5°	2259.1	2278.7	2298.3	2283.6
50°	2026.1	2038.3	2045.7	2045.7
52.5°	1805.3	1805.3	1802.9	1805.3
55°	1552.7	1552.7	1542.9	1547.7
57.5°	1287.7	1292.7	1285.3	1273.0
60°	1042.5	1030.2	1025.3	1018.0
62.5°	811.9	811.9	794.8	816.8
65°	608.3	601.0	593.6	591.1
67.5°	441.5	439.1	431.7	429.2
70°	311.5	301.7	299.3	294.3
72.5°	208.5	208.5	203.6	203.6
75°	127.5	115.3	112.8	115.3
77.5°	88.3	85.8	85.8	83.4
80°	58.9	56.4	61.3	54.0
82.5°	36.8	39.3	36.8	39.3
85°	24.5	29.4	27.0	27.0
87.5°	14.7	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)