

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: P248752

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248752  
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: LSR8B90D010 EC8B90930 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7717.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 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

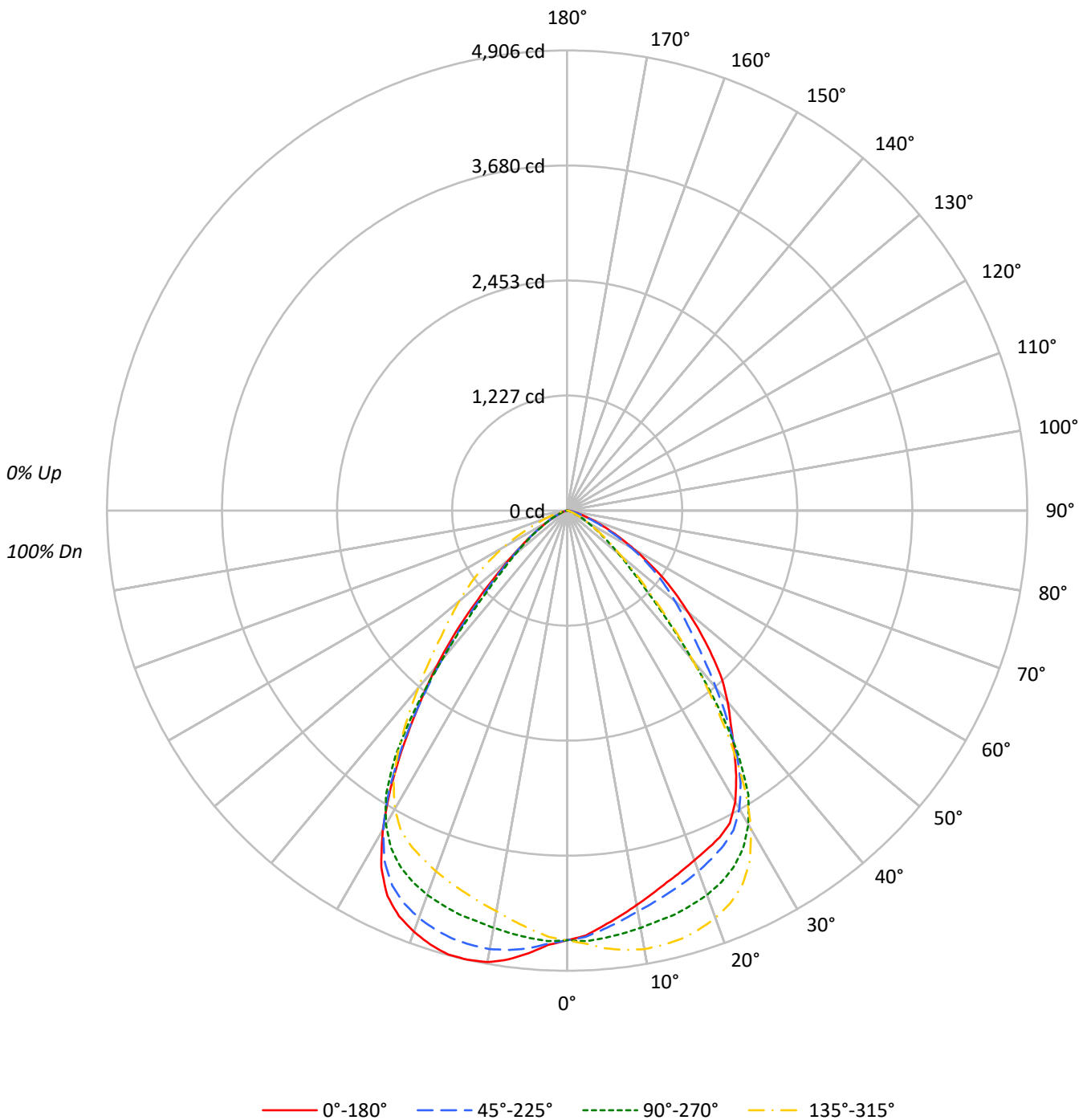
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	436.1	5.7
10°-20°	1262.7	16.4
20°-30°	1912.0	24.8
30°-40°	1916.3	24.8
40°-50°	1203.4	15.6
50°-60°	641.3	8.3
60°-70°	263.7	3.4
70°-80°	69.7	0.9
80°-90°	11.8	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°	3610.8	46.8
0°-40°	5527.2	71.6
0°-60°	7371.8	95.5
0°-90°	7717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4581	4581	4581	4581	4581	
5°	4443	4575	4738	4575	4443	419
15°	4105	4456	4899	4456	4105	1161
25°	3845	4197	4534	4197	3845	1764
35°	3100	3188	3024	3188	3100	1942
45°	2183	1168	1351	1168	2183	1679
55°	1242	432	456	432	1242	1107
65°	494	132	121	132	494	513
75°	139	27	22	27	139	157
85°	29	0	2	0	29	32
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°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4534.3	4529.8	4527.6	4532.2	4534.3	4543.3	4541.1	4545.5	4545.5	4547.8	4552.3
5°	4442.6	4440.4	4442.6	4442.6	4451.6	4460.5	4458.3	4465.1	4469.4	4480.6	4485.1
7.5°	4357.7	4357.7	4355.3	4364.3	4368.8	4382.2	4380.0	4391.2	4397.9	4409.0	4424.7
10°	4270.3	4270.3	4272.6	4279.3	4281.7	4301.7	4301.7	4317.3	4326.3	4337.5	4357.7
12.5°	4185.4	4185.4	4198.8	4194.3	4203.3	4218.9	4225.6	4241.3	4254.8	4277.1	4297.2
15°	4104.9	4104.9	4109.4	4120.5	4127.2	4147.4	4158.5	4176.5	4192.1	4214.5	4243.5
17.5°	4035.5	4033.2	4035.5	4048.9	4062.4	4080.2	4089.2	4111.5	4127.2	4156.3	4183.2
20°	3966.2	3970.7	3970.7	3981.8	3990.8	4013.1	4022.0	4046.7	4064.6	4091.4	4122.8
22.5°	3905.8	3903.5	3903.5	3919.2	3926.0	3946.0	3954.9	3977.3	3997.5	4019.8	4048.9
25°	3845.4	3840.9	3849.9	3852.1	3856.5	3878.9	3885.6	3901.2	3921.4	3941.5	3970.7
27.5°	3755.9	3751.4	3753.7	3762.5	3769.3	3787.2	3791.7	3807.4	3822.9	3840.9	3865.5
30°	3583.6	3579.1	3577.0	3592.6	3599.3	3612.6	3619.4	3646.3	3650.8	3670.8	3688.8
32.5°	3355.4	3353.2	3357.7	3371.1	3377.8	3395.7	3404.7	3420.3	3431.5	3442.7	3460.5
35°	3100.5	3096.0	3100.5	3113.9	3113.9	3129.6	3136.3	3142.9	3140.7	3142.9	3138.5
37.5°	2863.4	2861.0	2863.4	2870.0	2863.4	2870.0	2863.4	2849.9	2825.4	2798.5	2771.6
40°	2662.0	2664.2	2650.8	2659.8	2635.1	2630.7	2606.1	2572.5	2523.4	2469.7	2393.6
42.5°	2447.3	2440.5	2431.7	2436.0	2416.0	2400.2	2360.0	2317.6	2254.9	2165.4	2073.6
45°	2183.3	2181.1	2176.5	2174.4	2161.0	2145.3	2111.6	2062.5	1993.1	1901.4	1791.8
47.5°	1926.0	1919.3	1919.3	1921.5	1905.9	1903.7	1876.8	1834.3	1774.0	1684.4	1570.3
50°	1679.9	1677.7	1682.2	1691.1	1679.9	1675.4	1657.6	1628.6	1574.9	1498.8	1391.4
52.5°	1458.5	1456.3	1460.8	1471.9	1467.4	1471.9	1454.0	1431.6	1395.9	1322.0	1228.1
55°	1241.5	1241.5	1241.5	1254.8	1254.8	1254.8	1246.0	1232.7	1199.0	1145.3	1058.1
57.5°	1015.6	1017.8	1031.2	1033.4	1031.2	1035.8	1033.4	1020.0	997.7	959.7	892.5
60°	825.5	825.5	832.2	839.0	836.6	839.0	839.0	832.2	809.8	778.5	724.8
62.5°	653.2	659.9	655.4	659.9	668.8	659.9	655.4	651.0	635.3	615.2	570.4
65°	494.4	498.8	498.8	501.1	496.6	498.8	490.0	483.3	474.3	451.9	422.8
67.5°	375.9	375.9	375.9	375.9	373.5	371.4	369.1	362.4	346.7	337.9	306.5
70°	288.5	275.1	275.1	275.1	275.1	277.4	270.7	261.8	257.3	241.6	219.3
72.5°	192.4	196.8	192.4	192.4	187.9	190.1	181.2	176.7	172.3	163.3	149.9
75°	138.7	127.6	131.9	134.3	127.6	131.9	123.0	114.1	114.1	107.4	100.7
77.5°	89.5	87.3	89.5	91.7	89.5	87.3	82.7	78.2	78.2	76.0	69.3
80°	64.9	62.7	62.7	62.7	60.4	62.7	58.2	58.2	53.7	51.5	47.0
82.5°	42.5	42.5	40.2	42.5	40.2	42.5	35.9	35.9	35.9	33.5	29.1
85°	29.1	24.5	24.5	26.9	22.4	26.9	24.5	22.4	20.2	20.2	17.8
87.5°	13.5	15.7	13.5	15.7	13.5	13.5	15.7	13.5	13.5	9.0	9.0
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°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4559.0	4561.1	4561.1	4570.2	4574.6	4576.8	4576.8	4594.8	4588.0	4592.5	4597.0
5°	4494.1	4507.4	4512.0	4512.0	4536.6	4545.5	4554.4	4574.6	4576.8	4590.3	4605.9
7.5°	4431.4	4447.1	4456.1	4476.2	4491.8	4507.4	4534.3	4547.8	4561.1	4579.1	4599.1
10°	4371.0	4388.9	4406.9	4422.5	4447.1	4467.2	4485.1	4516.4	4532.2	4556.8	4583.5
12.5°	4312.9	4337.5	4353.2	4380.0	4406.9	4424.7	4451.6	4480.6	4505.3	4529.8	4561.1
15°	4261.5	4290.5	4308.5	4337.5	4366.6	4391.2	4420.3	4456.1	4473.9	4503.1	4532.2
17.5°	4205.4	4236.8	4259.2	4286.0	4321.9	4348.7	4373.4	4409.0	4431.4	4462.7	4496.3
20°	4147.4	4178.6	4205.4	4232.3	4268.2	4295.0	4324.0	4359.9	4384.5	4415.7	4442.6
22.5°	4078.1	4107.1	4136.2	4167.4	4203.3	4225.6	4259.2	4290.5	4317.3	4346.5	4373.4
25°	3988.5	4024.4	4046.7	4075.7	4104.9	4129.4	4165.2	4196.6	4218.9	4245.8	4270.3
27.5°	3883.4	3910.3	3928.1	3952.8	3981.8	4004.2	4031.0	4062.4	4084.7	4109.4	4127.2
30°	3704.3	3729.1	3744.7	3762.5	3791.7	3811.8	3834.3	3863.2	3878.9	3896.8	3912.5
32.5°	3469.5	3489.7	3498.6	3512.1	3532.2	3552.2	3570.3	3594.8	3601.5	3612.6	3612.6
35°	3129.6	3134.0	3131.7	3136.3	3145.2	3156.4	3172.0	3187.7	3196.6	3196.6	3189.9
37.5°	2731.3	2704.5	2675.5	2653.1	2646.3	2641.9	2650.8	2657.4	2666.5	2670.9	2659.8
40°	2317.6	2257.1	2192.2	2134.0	2093.8	2076.0	2069.3	2073.6	2073.6	2089.3	2089.3
42.5°	1961.9	1867.8	1771.7	1684.4	1626.2	1581.6	1561.4	1561.4	1563.7	1574.9	1581.6
45°	1666.6	1548.0	1436.1	1339.9	1259.4	1201.3	1174.5	1167.7	1165.5	1169.9	1185.6
47.5°	1440.6	1317.6	1201.3	1082.7	997.7	939.5	915.0	905.9	897.0	905.9	908.2
50°	1263.9	1136.4	1013.4	894.8	805.3	753.9	722.5	709.0	706.9	706.9	711.4
52.5°	1102.8	984.2	861.3	740.4	646.5	597.3	568.2	561.5	552.5	561.5	561.5
55°	950.7	832.2	711.4	597.3	518.9	467.6	440.7	431.7	427.2	433.9	433.9
57.5°	785.3	684.5	572.7	469.8	391.5	355.7	335.5	324.4	322.1	326.5	322.1
60°	644.2	559.3	463.1	369.1	308.7	270.7	255.0	250.5	246.1	250.5	250.5
62.5°	510.1	438.4	360.1	288.5	237.1	210.3	192.4	192.4	190.1	190.1	192.4
65°	378.1	322.1	266.2	205.8	165.6	145.4	131.9	131.9	129.7	131.9	129.7
67.5°	275.1	237.1	192.4	149.9	118.6	107.4	98.4	91.7	96.2	91.7	89.5
70°	201.3	169.9	138.7	114.1	91.7	80.6	73.9	71.5	67.1	67.1	67.1
72.5°	134.3	114.1	93.9	73.9	60.4	49.2	47.0	42.5	38.0	40.2	44.7
75°	89.5	76.0	67.1	53.7	40.2	40.2	26.9	26.9	22.4	26.9	20.2
77.5°	62.7	51.5	40.2	33.5	26.9	24.5	17.8	17.8	15.7	15.7	15.7
80°	44.7	38.0	29.1	24.5	17.8	17.8	15.7	13.5	11.1	11.1	13.5
82.5°	26.9	20.2	20.2	17.8	11.1	9.0	6.7	9.0	4.5	4.5	4.5
85°	15.7	13.5	11.1	6.7	4.5	4.5	2.2	0.0	2.2	2.2	0.0
87.5°	9.0	4.5	4.5	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.5
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°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4608.2	4605.9	4610.4	4610.4	4623.9	4621.5	4628.3	4628.3	4623.9	4626.0	4635.0
5°	4623.9	4630.6	4644.0	4655.2	4675.2	4684.2	4695.4	4706.6	4708.9	4715.6	4722.3
7.5°	4623.9	4646.2	4661.9	4682.0	4708.9	4724.5	4749.1	4769.3	4778.2	4789.4	4802.8
10°	4614.8	4637.2	4666.3	4688.7	4722.3	4746.9	4771.4	4802.8	4816.2	4834.1	4852.0
12.5°	4597.0	4621.5	4652.8	4682.0	4720.0	4742.4	4773.7	4802.8	4822.9	4847.5	4867.7
15°	4570.2	4599.1	4628.3	4657.4	4697.7	4724.5	4753.6	4787.1	4807.3	4834.1	4852.0
17.5°	4527.6	4559.0	4585.8	4612.6	4650.7	4682.0	4708.9	4740.1	4760.3	4782.6	4807.3
20°	4476.2	4505.3	4534.3	4556.8	4594.8	4621.5	4650.7	4679.7	4695.4	4699.9	4737.9
22.5°	4411.4	4431.4	4453.8	4489.6	4512.0	4536.6	4563.5	4590.3	4605.9	4630.6	4644.0
25°	4303.9	4324.0	4348.7	4364.3	4391.2	4411.4	4438.2	4467.2	4476.2	4494.1	4507.4
27.5°	4154.1	4165.2	4176.5	4189.8	4205.4	4216.6	4232.3	4245.8	4254.8	4263.6	4272.6
30°	3916.9	3916.9	3916.9	3907.9	3914.6	3921.4	3923.6	3921.4	3921.4	3919.2	3919.2
32.5°	3603.8	3585.9	3565.7	3547.9	3541.1	3532.2	3527.7	3520.9	3509.9	3503.1	3505.4
35°	3180.9	3140.7	3116.2	3093.7	3075.9	3062.5	3055.7	3049.0	3046.8	3037.8	3028.8
37.5°	2653.1	2623.9	2606.1	2592.6	2577.1	2563.6	2565.7	2568.1	2574.7	2570.3	2572.5
40°	2093.8	2087.1	2093.8	2078.1	2073.6	2078.1	2089.3	2105.0	2114.0	2122.9	2138.5
42.5°	1592.7	1603.8	1619.6	1619.6	1626.2	1635.3	1648.7	1673.3	1686.7	1702.4	1720.3
45°	1199.0	1212.5	1232.7	1239.3	1243.7	1254.8	1270.7	1290.7	1299.7	1313.1	1328.7
47.5°	923.9	932.8	944.0	955.2	966.3	970.9	986.5	986.5	997.7	1006.7	1011.0
50°	720.4	729.2	738.2	744.9	749.4	756.1	760.6	767.2	769.5	773.9	776.2
52.5°	563.6	575.0	575.0	579.3	586.1	592.8	590.5	592.8	595.0	595.0	601.8
55°	440.7	440.7	447.4	447.4	451.9	449.6	451.9	451.9	451.9	451.9	454.1
57.5°	328.8	331.1	337.9	333.3	331.1	335.5	331.1	335.5	333.3	337.9	331.1
60°	252.8	252.8	255.0	255.0	257.3	257.3	257.3	255.0	255.0	252.8	252.8
62.5°	190.1	192.4	194.6	192.4	192.4	192.4	190.1	190.1	187.9	185.6	185.6
65°	127.6	125.3	129.7	125.3	127.6	127.6	125.3	127.6	120.8	123.0	120.8
67.5°	91.7	89.5	87.3	89.5	87.3	85.0	85.0	87.3	89.5	82.7	82.7
70°	60.4	62.7	60.4	62.7	64.9	64.9	62.7	60.4	62.7	58.2	60.4
72.5°	38.0	38.0	38.0	38.0	38.0	40.2	40.2	40.2	35.9	35.9	33.5
75°	17.8	24.5	20.2	17.8	24.5	24.5	22.4	22.4	20.2	20.2	20.2
77.5°	17.8	13.5	13.5	13.5	13.5	13.5	13.5	13.5	11.1	13.5	11.1
80°	9.0	9.0	9.0	6.7	9.0	9.0	11.1	9.0	9.0	6.7	11.1
82.5°	4.5	4.5	4.5	0.0	2.2	4.5	4.5	2.2	4.5	4.5	2.2
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: P248752

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4632.8	4630.6	4632.8	4635.0	4632.8	4630.6	4632.8	4635.0	4626.0	4623.9	4628.3
5°	4731.2	4731.2	4735.7	4737.9	4735.7	4731.2	4731.2	4722.3	4715.6	4708.9	4706.6
7.5°	4816.2	4820.7	4825.1	4827.4	4825.1	4820.7	4816.2	4802.8	4789.4	4778.2	4769.3
10°	4867.7	4874.4	4883.3	4887.8	4883.3	4874.4	4867.7	4852.0	4834.1	4816.2	4802.8
12.5°	4890.0	4896.8	4908.0	4905.7	4908.0	4896.8	4890.0	4867.7	4847.5	4822.9	4802.8
15°	4874.4	4883.3	4894.5	4899.0	4894.5	4883.3	4874.4	4852.0	4834.1	4807.3	4787.1
17.5°	4825.1	4838.6	4845.3	4852.0	4845.3	4838.6	4825.1	4807.3	4782.6	4760.3	4740.1
20°	4758.0	4767.1	4776.0	4778.2	4776.0	4767.1	4758.0	4737.9	4699.9	4695.4	4679.7
22.5°	4661.9	4668.6	4688.7	4682.0	4688.7	4668.6	4661.9	4644.0	4630.6	4605.9	4590.3
25°	4523.1	4529.8	4532.2	4534.3	4532.2	4529.8	4523.1	4507.4	4494.1	4476.2	4467.2
27.5°	4283.8	4283.8	4288.3	4290.5	4288.3	4283.8	4283.8	4272.6	4263.6	4254.8	4245.8
30°	3921.4	3921.4	3921.4	3932.7	3921.4	3921.4	3921.4	3919.2	3919.2	3921.4	3921.4
32.5°	3503.1	3498.6	3494.2	3498.6	3494.2	3498.6	3503.1	3505.4	3503.1	3509.9	3520.9
35°	3028.8	3026.6	3033.3	3024.5	3033.3	3026.6	3028.8	3028.8	3037.8	3046.8	3049.0
37.5°	2574.7	2570.3	2579.2	2570.3	2579.2	2570.3	2574.7	2572.5	2570.3	2574.7	2568.1
40°	2143.0	2147.5	2147.5	2165.4	2147.5	2147.5	2143.0	2138.5	2122.9	2114.0	2105.0
42.5°	1729.1	1742.6	1738.1	1751.6	1738.1	1742.6	1729.1	1720.3	1702.4	1686.7	1673.3
45°	1337.7	1346.7	1346.7	1351.1	1346.7	1346.7	1337.7	1328.7	1313.1	1299.7	1290.7
47.5°	1026.7	1026.7	1026.7	1029.1	1026.7	1026.7	1026.7	1011.0	1006.7	997.7	986.5
50°	780.7	782.9	785.3	787.4	785.3	782.9	780.7	776.2	773.9	769.5	767.2
52.5°	599.5	601.8	597.3	601.8	597.3	601.8	599.5	601.8	595.0	595.0	592.8
55°	454.1	451.9	454.1	456.4	454.1	451.9	454.1	454.1	451.9	451.9	451.9
57.5°	333.3	328.8	328.8	328.8	328.8	328.8	333.3	331.1	337.9	333.3	335.5
60°	248.3	250.5	250.5	252.8	250.5	250.5	248.3	252.8	252.8	255.0	255.0
62.5°	183.4	190.1	185.6	190.1	185.6	190.1	183.4	185.6	185.6	187.9	190.1
65°	118.6	118.6	118.6	120.8	118.6	118.6	118.6	120.8	123.0	120.8	127.6
67.5°	80.6	82.7	87.3	85.0	87.3	82.7	80.6	82.7	82.7	89.5	87.3
70°	64.9	58.2	58.2	64.9	58.2	58.2	64.9	60.4	58.2	62.7	60.4
72.5°	38.0	33.5	38.0	38.0	38.0	33.5	38.0	33.5	35.9	35.9	40.2
75°	20.2	17.8	15.7	22.4	15.7	17.8	20.2	20.2	20.2	20.2	22.4
77.5°	13.5	11.1	15.7	15.7	15.7	11.1	13.5	11.1	13.5	11.1	13.5
80°	6.7	9.0	6.7	11.1	6.7	9.0	6.7	11.1	6.7	9.0	9.0
82.5°	2.2	4.5	4.5	4.5	4.5	4.5	2.2	2.2	4.5	4.5	2.2
85°	0.0	4.5	2.2	2.2	2.2	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	2.2	0.0	0.0	2.2	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: P248752

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4628.3	4621.5	4623.9	4610.4	4610.4	4605.9	4608.2	4597.0	4592.5	4588.0	4594.8
5°	4695.4	4684.2	4675.2	4655.2	4644.0	4630.6	4623.9	4605.9	4590.3	4576.8	4574.6
7.5°	4749.1	4724.5	4708.9	4682.0	4661.9	4646.2	4623.9	4599.1	4579.1	4561.1	4547.8
10°	4771.4	4746.9	4722.3	4688.7	4666.3	4637.2	4614.8	4583.5	4556.8	4532.2	4516.4
12.5°	4773.7	4742.4	4720.0	4682.0	4652.8	4621.5	4597.0	4561.1	4529.8	4505.3	4480.6
15°	4753.6	4724.5	4697.7	4657.4	4628.3	4599.1	4570.2	4532.2	4503.1	4473.9	4456.1
17.5°	4708.9	4682.0	4650.7	4612.6	4585.8	4559.0	4527.6	4496.3	4462.7	4431.4	4409.0
20°	4650.7	4621.5	4594.8	4556.8	4534.3	4505.3	4476.2	4442.6	4415.7	4384.5	4359.9
22.5°	4563.5	4536.6	4512.0	4489.6	4453.8	4431.4	4411.4	4373.4	4346.5	4317.3	4290.5
25°	4438.2	4411.4	4391.2	4364.3	4348.7	4324.0	4303.9	4270.3	4245.8	4218.9	4196.6
27.5°	4232.3	4216.6	4205.4	4189.8	4176.5	4165.2	4154.1	4127.2	4109.4	4084.7	4062.4
30°	3923.6	3921.4	3914.6	3907.9	3916.9	3916.9	3916.9	3912.5	3896.8	3878.9	3863.2
32.5°	3527.7	3532.2	3541.1	3547.9	3565.7	3585.9	3603.8	3612.6	3612.6	3601.5	3594.8
35°	3055.7	3062.5	3075.9	3093.7	3116.2	3140.7	3180.9	3189.9	3196.6	3196.6	3187.7
37.5°	2565.7	2563.6	2577.1	2592.6	2606.1	2623.9	2653.1	2659.8	2670.9	2666.5	2657.4
40°	2089.3	2078.1	2073.6	2078.1	2093.8	2087.1	2093.8	2089.3	2089.3	2073.6	2073.6
42.5°	1648.7	1635.3	1626.2	1619.6	1619.6	1603.8	1592.7	1581.6	1574.9	1563.7	1561.4
45°	1270.7	1254.8	1243.7	1239.3	1232.7	1212.5	1199.0	1185.6	1169.9	1165.5	1167.7
47.5°	986.5	970.9	966.3	955.2	944.0	932.8	923.9	908.2	905.9	897.0	905.9
50°	760.6	756.1	749.4	744.9	738.2	729.2	720.4	711.4	706.9	706.9	709.0
52.5°	590.5	592.8	586.1	579.3	575.0	575.0	563.6	561.5	561.5	552.5	561.5
55°	451.9	449.6	451.9	447.4	447.4	440.7	440.7	433.9	433.9	427.2	431.7
57.5°	331.1	335.5	331.1	333.3	337.9	331.1	328.8	322.1	326.5	322.1	324.4
60°	257.3	257.3	257.3	255.0	255.0	252.8	252.8	250.5	250.5	246.1	250.5
62.5°	190.1	192.4	192.4	192.4	194.6	192.4	190.1	192.4	190.1	190.1	192.4
65°	125.3	127.6	127.6	125.3	129.7	125.3	127.6	129.7	131.9	129.7	131.9
67.5°	85.0	85.0	87.3	89.5	87.3	89.5	91.7	89.5	91.7	96.2	91.7
70°	62.7	64.9	64.9	62.7	60.4	62.7	60.4	67.1	67.1	67.1	71.5
72.5°	40.2	40.2	38.0	38.0	38.0	38.0	38.0	44.7	40.2	38.0	42.5
75°	22.4	24.5	24.5	17.8	20.2	24.5	17.8	20.2	26.9	22.4	26.9
77.5°	13.5	13.5	13.5	13.5	13.5	13.5	17.8	15.7	15.7	15.7	17.8
80°	11.1	9.0	9.0	6.7	9.0	9.0	9.0	13.5	11.1	11.1	13.5
82.5°	4.5	4.5	2.2	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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: P248752

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4576.8	4576.8	4574.6	4570.2	4561.1	4561.1	4559.0	4552.3	4547.8	4545.5	4545.5
5°	4554.4	4545.5	4536.6	4512.0	4512.0	4507.4	4494.1	4485.1	4480.6	4469.4	4465.1
7.5°	4534.3	4507.4	4491.8	4476.2	4456.1	4447.1	4431.4	4424.7	4409.0	4397.9	4391.2
10°	4485.1	4467.2	4447.1	4422.5	4406.9	4388.9	4371.0	4357.7	4337.5	4326.3	4317.3
12.5°	4451.6	4424.7	4406.9	4380.0	4353.2	4337.5	4312.9	4297.2	4277.1	4254.8	4241.3
15°	4420.3	4391.2	4366.6	4337.5	4308.5	4290.5	4261.5	4243.5	4214.5	4192.1	4176.5
17.5°	4373.4	4348.7	4321.9	4286.0	4259.2	4236.8	4205.4	4183.2	4156.3	4127.2	4111.5
20°	4324.0	4295.0	4268.2	4232.3	4205.4	4178.6	4147.4	4122.8	4091.4	4064.6	4046.7
22.5°	4259.2	4225.6	4203.3	4167.4	4136.2	4107.1	4078.1	4048.9	4019.8	3997.5	3977.3
25°	4165.2	4129.4	4104.9	4075.7	4046.7	4024.4	3988.5	3970.7	3941.5	3921.4	3901.2
27.5°	4031.0	4004.2	3981.8	3952.8	3928.1	3910.3	3883.4	3865.5	3840.9	3822.9	3807.4
30°	3834.3	3811.8	3791.7	3762.5	3744.7	3729.1	3704.3	3688.8	3670.8	3650.8	3646.3
32.5°	3570.3	3552.2	3532.2	3512.1	3498.6	3489.7	3469.5	3460.5	3442.7	3431.5	3420.3
35°	3172.0	3156.4	3145.2	3136.3	3131.7	3134.0	3129.6	3138.5	3142.9	3140.7	3142.9
37.5°	2650.8	2641.9	2646.3	2653.1	2675.5	2704.5	2731.3	2771.6	2798.5	2825.4	2849.9
40°	2069.3	2076.0	2093.8	2134.0	2192.2	2257.1	2317.6	2393.6	2469.7	2523.4	2572.5
42.5°	1561.4	1581.6	1626.2	1684.4	1771.7	1867.8	1961.9	2073.6	2165.4	2254.9	2317.6
45°	1174.5	1201.3	1259.4	1339.9	1436.1	1548.0	1666.6	1791.8	1901.4	1993.1	2062.5
47.5°	915.0	939.5	997.7	1082.7	1201.3	1317.6	1440.6	1570.3	1684.4	1774.0	1834.3
50°	722.5	753.9	805.3	894.8	1013.4	1136.4	1263.9	1391.4	1498.8	1574.9	1628.6
52.5°	568.2	597.3	646.5	740.4	861.3	984.2	1102.8	1228.1	1322.0	1395.9	1431.6
55°	440.7	467.6	518.9	597.3	711.4	832.2	950.7	1058.1	1145.3	1199.0	1232.7
57.5°	335.5	355.7	391.5	469.8	572.7	684.5	785.3	892.5	959.7	997.7	1020.0
60°	255.0	270.7	308.7	369.1	463.1	559.3	644.2	724.8	778.5	809.8	832.2
62.5°	192.4	210.3	237.1	288.5	360.1	438.4	510.1	570.4	615.2	635.3	651.0
65°	131.9	145.4	165.6	205.8	266.2	322.1	378.1	422.8	451.9	474.3	483.3
67.5°	98.4	107.4	118.6	149.9	192.4	237.1	275.1	306.5	337.9	346.7	362.4
70°	73.9	80.6	91.7	114.1	138.7	169.9	201.3	219.3	241.6	257.3	261.8
72.5°	47.0	49.2	60.4	73.9	93.9	114.1	134.3	149.9	163.3	172.3	176.7
75°	26.9	40.2	40.2	53.7	67.1	76.0	89.5	100.7	107.4	114.1	114.1
77.5°	17.8	24.5	26.9	33.5	40.2	51.5	62.7	69.3	76.0	78.2	78.2
80°	15.7	17.8	17.8	24.5	29.1	38.0	44.7	47.0	51.5	53.7	58.2
82.5°	6.7	9.0	11.1	17.8	20.2	20.2	26.9	29.1	33.5	35.9	35.9
85°	2.2	4.5	4.5	6.7	11.1	13.5	15.7	17.8	20.2	20.2	22.4
87.5°	2.2	2.2	0.0	2.2	4.5	4.5	9.0	9.0	9.0	13.5	13.5
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: P248752

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3	4581.3
2.5°	4541.1	4543.3	4534.3	4532.2	4527.6	4529.8	4534.3
5°	4458.3	4460.5	4451.6	4442.6	4442.6	4440.4	4442.6
7.5°	4380.0	4382.2	4368.8	4364.3	4355.3	4357.7	4357.7
10°	4301.7	4301.7	4281.7	4279.3	4272.6	4270.3	4270.3
12.5°	4225.6	4218.9	4203.3	4194.3	4198.8	4185.4	4185.4
15°	4158.5	4147.4	4127.2	4120.5	4109.4	4104.9	4104.9
17.5°	4089.2	4080.2	4062.4	4048.9	4035.5	4033.2	4035.5
20°	4022.0	4013.1	3990.8	3981.8	3970.7	3970.7	3966.2
22.5°	3954.9	3946.0	3926.0	3919.2	3903.5	3903.5	3905.8
25°	3885.6	3878.9	3856.5	3852.1	3849.9	3840.9	3845.4
27.5°	3791.7	3787.2	3769.3	3762.5	3753.7	3751.4	3755.9
30°	3619.4	3612.6	3599.3	3592.6	3577.0	3579.1	3583.6
32.5°	3404.7	3395.7	3377.8	3371.1	3357.7	3353.2	3355.4
35°	3136.3	3129.6	3113.9	3113.9	3100.5	3096.0	3100.5
37.5°	2863.4	2870.0	2863.4	2870.0	2863.4	2861.0	2863.4
40°	2606.1	2630.7	2635.1	2659.8	2650.8	2664.2	2662.0
42.5°	2360.0	2400.2	2416.0	2436.0	2431.7	2440.5	2447.3
45°	2111.6	2145.3	2161.0	2174.4	2176.5	2181.1	2183.3
47.5°	1876.8	1903.7	1905.9	1921.5	1919.3	1919.3	1926.0
50°	1657.6	1675.4	1679.9	1691.1	1682.2	1677.7	1679.9
52.5°	1454.0	1471.9	1467.4	1471.9	1460.8	1456.3	1458.5
55°	1246.0	1254.8	1254.8	1254.8	1241.5	1241.5	1241.5
57.5°	1033.4	1035.8	1031.2	1033.4	1031.2	1017.8	1015.6
60°	839.0	839.0	836.6	839.0	832.2	825.5	825.5
62.5°	655.4	659.9	668.8	659.9	655.4	659.9	653.2
65°	490.0	498.8	496.6	501.1	498.8	498.8	494.4
67.5°	369.1	371.4	373.5	375.9	375.9	375.9	375.9
70°	270.7	277.4	275.1	275.1	275.1	275.1	288.5
72.5°	181.2	190.1	187.9	192.4	192.4	196.8	192.4
75°	123.0	131.9	127.6	134.3	131.9	127.6	138.7
77.5°	82.7	87.3	89.5	91.7	89.5	87.3	89.5
80°	58.2	62.7	60.4	62.7	62.7	62.7	64.9
82.5°	35.9	42.5	40.2	42.5	40.2	42.5	42.5
85°	24.5	26.9	22.4	26.9	24.5	24.5	29.1
87.5°	15.7	13.5	13.5	15.7	13.5	15.7	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)