

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: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-170HL-LC-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

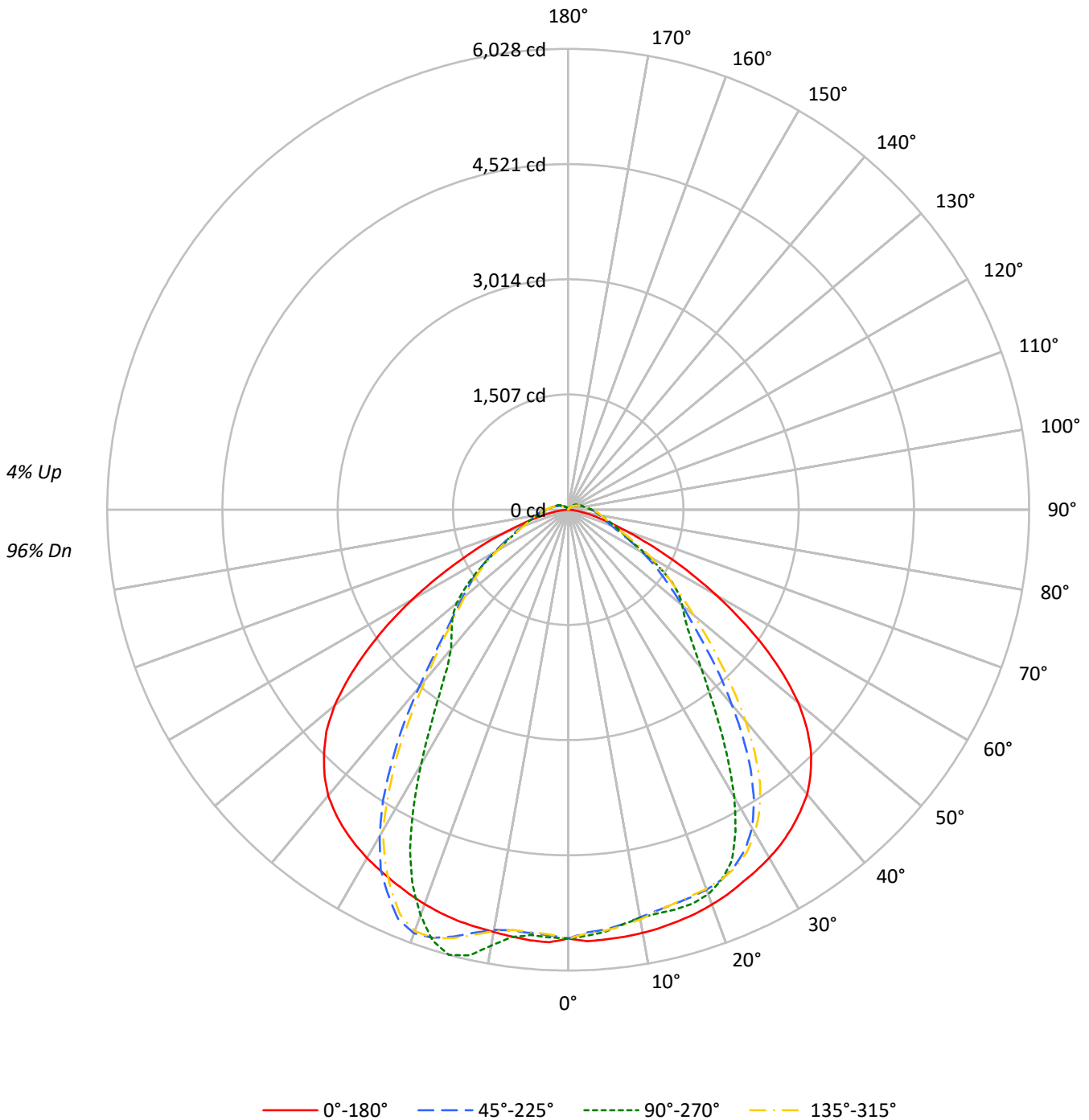
Lumens per Lamp: N/A  
Luminaire Lumens: 13370.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 124  
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	22661	22661	22661	22661
5°	22857	21762	22904	21933
10°	22995	20857	22947	22273
15°	23205	20578	23193	22912
20°	23496	20252	23471	21348
25°	23822	19213	23809	18564
30°	24312	16651	24325	14752
35°	24834	13465	24905	11394
40°	25308	10841	25413	9551
45°	25279	9183	25409	8942
50°	24259	8455	24598	8266
55°	21598	7599	22137	6908
60°	17596	5816	18531	5334
65°	13158	4450	14177	4219
70°	9023	3841	10172	3673
75°	5983	3466	6965	3278
80°	3963	3231	4645	2973
85°	2163	3224	2848	2944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.7	4.0
10°-20°	1585.1	11.9
20°-30°	2409.7	18.0
30°-40°	2585.1	19.3
40°-50°	2243.6	16.8
50°-60°	1662.7	12.4
60°-70°	952.7	7.1
70°-80°	527.5	3.9
80°-90°	321.2	2.4
90°-100°	208.9	1.6
100°-110°	139.9	1.0
110°-120°	94.5	0.7
120°-130°	58.0	0.4
130°-140°	30.5	0.2
140°-150°	13.9	0.1
150°-160°	4.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4527.5	33.9
0°-40°	7112.6	53.2
0°-60°	11018.8	82.4
0°-90°	12820.3	95.9
90°-120°	443.3	3.3
90°-150°	545.7	4.1
90°-180°	550.0	4.1
0°-180°	13370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5608	5608	5608	5608	5608	
5°	5643	5542	5655	5585	5643	538
15°	5571	5414	5568	6028	5571	1576
25°	5382	5064	5380	4893	5382	2488
35°	5090	3447	5104	2917	5090	3186
45°	4493	2210	4516	2152	4493	3440
55°	3134	1657	3213	1506	3134	2780
65°	1422	840	1532	797	1422	1434
75°	406	533	472	504	406	463
85°	55	368	72	336	55	72
90°	0	307	6	284	0	2
95°	3	252	0	240	3	2
105°	3	188	3	180	3	3
115°	3	154	3	139	3	3
125°	3	116	3	96	3	3
135°	3	72	3	61	3	2
145°	3	44	6	35	3	2
155°	6	20	6	17	6	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5648.9	5634.4	5628.7	5617.1	5625.8	5660.5	5637.3	5599.7	5602.6	5536.0	5570.7
5°	5643.1	5625.8	5617.1	5605.5	5611.3	5643.1	5620.0	5582.3	5579.4	5512.8	5544.6
7.5°	5634.4	5617.1	5602.6	5593.9	5596.8	5622.9	5593.9	5550.4	5541.7	5469.3	5498.3
10°	5620.0	5608.4	5588.1	5573.6	5570.7	5599.7	5553.3	5509.9	5489.6	5414.3	5443.3
12.5°	5599.7	5582.3	5562.0	5536.0	5533.1	5550.4	5512.8	5451.9	5431.7	5370.8	5402.7
15°	5570.7	5550.4	5527.3	5498.3	5483.8	5495.4	5449.0	5394.0	5391.1	5339.0	5382.4
17.5°	5538.9	5509.9	5483.8	5443.3	5423.0	5431.7	5394.0	5344.8	5350.6	5318.7	5367.9
20°	5495.4	5463.5	5423.0	5382.4	5353.4	5367.9	5341.9	5304.2	5312.9	5289.7	5333.2
22.5°	5446.2	5402.7	5353.4	5307.1	5283.9	5304.2	5283.9	5252.1	5255.0	5240.5	5266.5
25°	5382.4	5333.2	5275.2	5217.3	5205.7	5220.2	5208.6	5182.5	5170.9	5147.8	5159.4
27.5°	5324.5	5269.4	5197.0	5136.2	5115.9	5144.9	5118.8	5075.3	5043.5	5011.6	4988.4
30°	5257.9	5191.2	5110.1	5040.6	5023.2	5034.8	4997.1	4930.5	4846.5	4805.9	4742.2
32.5°	5185.4	5098.5	4997.1	4918.9	4907.3	4898.6	4829.1	4733.5	4603.2	4522.0	4423.5
35°	5089.8	4994.2	4872.6	4777.0	4759.6	4710.3	4597.4	4469.9	4301.9	4162.8	3994.8
37.5°	4982.6	4869.7	4742.2	4614.7	4565.5	4467.0	4307.7	4174.4	3919.5	3751.5	3548.7
40°	4861.0	4724.8	4568.4	4414.9	4333.7	4174.4	3991.9	3794.9	3548.7	3322.7	3151.8
42.5°	4693.0	4548.1	4362.7	4191.8	4052.7	3841.3	3626.9	3348.8	3122.8	2931.7	2757.8
45°	4493.1	4319.3	4104.9	3899.2	3722.5	3470.5	3218.4	2940.3	2752.0	2529.0	2410.2
47.5°	4235.3	4047.0	3818.1	3589.2	3357.5	3079.4	2815.8	2549.3	2361.0	2201.6	2114.7
50°	3931.1	3757.3	3505.2	3232.9	2978.0	2688.3	2424.7	2224.8	2042.3	1943.8	1877.2
52.5°	3554.5	3392.3	3134.4	2839.0	2592.7	2308.8	2068.4	1906.2	1775.8	1703.4	1680.2
55°	3134.4	2992.5	2737.6	2462.4	2210.3	1949.6	1767.1	1625.2	1541.1	1497.7	1500.6
57.5°	2685.4	2575.3	2334.9	2088.7	1851.1	1654.1	1489.0	1376.0	1312.3	1309.4	1318.1
60°	2236.4	2155.3	1946.7	1735.2	1526.7	1367.3	1245.7	1167.4	1126.9	1129.8	1126.9
62.5°	1807.7	1732.3	1581.7	1407.9	1242.8	1135.6	1025.5	993.6	958.9	956.0	956.0
65°	1422.4	1364.4	1242.8	1118.2	993.6	924.1	869.1	831.4	805.3	799.5	802.4
67.5°	1069.0	1045.8	961.8	877.8	799.5	756.1	709.7	701.0	680.8	680.8	686.6
70°	796.6	779.3	732.9	683.7	651.8	622.8	599.7	599.7	596.8	593.9	608.3
72.5°	576.5	579.4	564.9	527.2	524.3	518.5	512.7	521.4	524.3	533.0	550.4
75°	405.6	414.3	414.3	408.5	420.0	434.5	443.2	457.7	475.1	486.7	507.0
77.5°	286.8	286.8	301.3	318.7	341.8	367.9	391.1	411.4	434.5	449.0	466.4
80°	185.4	194.1	217.3	249.1	281.0	315.8	347.6	373.7	396.9	420.0	431.6
82.5°	110.1	124.6	153.5	194.1	234.6	278.1	310.0	341.8	367.9	391.1	399.8
85°	55.0	75.3	110.1	153.5	197.0	243.3	283.9	312.9	341.8	362.1	373.7
87.5°	17.4	40.6	78.2	118.8	165.1	211.5	254.9	286.8	312.9	330.2	341.8
90°	0.0	20.3	55.0	98.5	141.9	188.3	228.9	263.6	289.7	304.2	312.9
92.5°	0.0	11.6	43.5	81.1	121.7	168.0	208.6	240.4	263.6	278.1	283.9
95°	2.9	8.7	31.9	66.6	107.2	150.6	188.3	217.3	240.4	254.9	257.8
97.5°	2.9	5.8	26.1	55.0	92.7	133.3	170.9	199.9	217.3	231.8	234.6
100°	2.9	5.8	20.3	49.2	81.1	118.8	153.5	179.6	199.9	211.5	214.4
102.5°	2.9	2.9	17.4	40.6	72.4	104.3	136.2	162.2	179.6	191.2	197.0
105°	2.9	2.9	14.5	34.8	63.7	92.7	121.7	147.7	162.2	173.8	179.6
107.5°	2.9	2.9	11.6	29.0	55.0	81.1	110.1	130.4	147.7	159.3	165.1
110°	2.9	2.9	8.7	26.1	46.4	72.4	95.6	115.9	133.3	144.8	150.6



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CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.9	2.9	8.7	23.2	40.6	63.7	84.0	104.3	118.8	130.4	139.1
115°	2.9	2.9	8.7	20.3	37.7	55.0	75.3	92.7	107.2	118.8	127.5
117.5°	2.9	2.9	8.7	17.4	31.9	49.2	66.6	84.0	95.6	107.2	115.9
120°	2.9	2.9	5.8	14.5	29.0	43.5	57.9	72.4	86.9	98.5	107.2
122.5°	2.9	2.9	5.8	14.5	23.2	37.7	52.1	63.7	78.2	86.9	95.6
125°	2.9	2.9	5.8	11.6	20.3	34.8	46.4	57.9	66.6	78.2	86.9
127.5°	2.9	2.9	5.8	11.6	17.4	29.0	40.6	52.1	60.8	69.5	75.3
130°	2.9	2.9	5.8	8.7	14.5	23.2	34.8	43.5	55.0	60.8	66.6
132.5°	2.9	2.9	2.9	8.7	11.6	17.4	26.1	37.7	46.4	55.0	57.9
135°	2.9	2.9	2.9	5.8	11.6	14.5	20.3	29.0	37.7	46.4	52.1
137.5°	2.9	2.9	2.9	5.8	8.7	14.5	17.4	23.2	31.9	37.7	46.4
140°	2.9	2.9	2.9	5.8	8.7	11.6	14.5	20.3	26.1	31.9	37.7
142.5°	2.9	2.9	2.9	5.8	5.8	8.7	11.6	17.4	20.3	26.1	31.9
145°	2.9	2.9	2.9	5.8	5.8	8.7	11.6	14.5	17.4	20.3	26.1
147.5°	2.9	2.9	2.9	5.8	5.8	5.8	8.7	11.6	14.5	17.4	20.3
150°	5.8	5.8	5.8	5.8	5.8	5.8	8.7	8.7	11.6	14.5	17.4
152.5°	5.8	5.8	5.8	5.8	5.8	5.8	8.7	8.7	8.7	11.6	14.5
155°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7	8.7	11.6	11.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5559.1	5564.9	5599.7	5596.8	5591.0	5585.2	5585.2	5579.4	5585.2	5599.7	5593.9
5°	5530.2	5538.9	5564.9	5562.0	5556.2	5553.3	5550.4	5541.7	5547.5	5567.8	5562.0
7.5°	5478.0	5486.7	5509.9	5498.3	5489.6	5495.4	5480.9	5472.2	5483.8	5504.1	5501.2
10°	5423.0	5428.8	5457.7	5451.9	5437.5	5440.4	5425.9	5420.1	5434.6	5446.2	5449.0
12.5°	5385.3	5405.6	5431.7	5428.8	5425.9	5428.8	5414.3	5408.5	5417.2	5428.8	5425.9
15°	5376.6	5402.7	5431.7	5431.7	5434.6	5437.5	5423.0	5414.3	5423.0	5431.7	5428.8
17.5°	5367.9	5399.8	5425.9	5423.0	5425.9	5431.7	5408.5	5402.7	5414.3	5425.9	5420.1
20°	5339.0	5367.9	5385.3	5379.5	5379.5	5382.4	5353.4	5353.4	5370.8	5379.5	5382.4
22.5°	5257.9	5292.6	5292.6	5278.1	5278.1	5266.5	5257.9	5240.5	5260.7	5275.2	5286.8
25°	5136.2	5150.7	5133.3	5101.4	5084.0	5069.6	5029.0	5063.8	5063.8	5107.2	5121.7
27.5°	4965.3	4933.4	4884.2	4817.5	4803.0	4756.7	4730.6	4739.3	4753.8	4814.6	4861.0
30°	4684.3	4588.7	4504.7	4475.7	4412.0	4365.6	4319.3	4342.4	4368.5	4403.3	4498.9
32.5°	4313.5	4220.8	4084.6	4035.4	3968.7	3910.8	3855.8	3890.5	3936.9	3960.0	4064.3
35°	3887.6	3777.5	3653.0	3569.0	3499.4	3467.6	3398.1	3447.3	3496.5	3513.9	3603.7
37.5°	3435.7	3322.7	3212.6	3140.2	3073.6	3053.3	3007.0	3041.7	3079.4	3105.5	3180.8
40°	3007.0	2902.7	2818.7	2769.4	2723.1	2705.7	2688.3	2702.8	2731.8	2752.0	2810.0
42.5°	2639.1	2555.1	2497.1	2468.1	2436.3	2413.1	2416.0	2421.8	2436.3	2479.7	2505.8
45°	2317.5	2268.3	2230.6	2224.8	2204.5	2201.6	2198.7	2210.3	2219.0	2245.1	2265.4
47.5°	2059.7	2039.4	2030.7	2042.3	2051.0	2039.4	2045.2	2059.7	2077.1	2077.1	2074.2
50°	1856.9	1862.7	1874.3	1900.4	1917.7	1923.5	1929.3	1946.7	1949.6	1955.4	1946.7
52.5°	1691.8	1697.6	1729.4	1770.0	1790.3	1799.0	1810.6	1827.9	1827.9	1833.7	1822.1
55°	1523.8	1532.5	1564.3	1604.9	1622.3	1633.8	1645.4	1657.0	1665.7	1677.3	1668.6
57.5°	1338.4	1364.4	1384.7	1396.3	1407.9	1416.6	1425.3	1428.2	1445.5	1448.4	1462.9
60°	1141.4	1147.2	1167.4	1164.5	1155.9	1179.0	1167.4	1187.7	1208.0	1234.1	1237.0
62.5°	953.1	956.0	970.5	964.7	976.3	973.4	982.0	982.0	996.5	1008.1	1022.6
65°	805.3	808.2	819.8	819.8	816.9	825.6	834.3	840.1	840.1	848.8	860.4
67.5°	695.3	703.9	715.5	721.3	727.1	727.1	735.8	738.7	744.5	747.4	753.2
70°	619.9	631.5	643.1	648.9	651.8	657.6	660.5	660.5	666.3	669.2	675.0
72.5°	564.9	576.5	585.2	585.2	591.0	593.9	593.9	596.8	599.7	605.4	611.2
75°	518.5	527.2	533.0	530.1	530.1	530.1	533.0	533.0	538.8	544.6	550.4
77.5°	475.1	483.8	483.8	478.0	478.0	478.0	478.0	480.9	483.8	489.6	495.4
80°	443.2	443.2	440.3	440.3	434.5	431.6	431.6	434.5	434.5	440.3	449.0
82.5°	408.5	408.5	405.6	402.7	399.8	396.9	396.9	399.8	402.7	405.6	411.4
85°	376.6	376.6	370.8	370.8	367.9	367.9	367.9	367.9	370.8	373.7	379.5
87.5°	344.7	341.8	338.9	336.0	336.0	336.0	336.0	336.0	338.9	344.7	347.6
90°	312.9	310.0	307.1	307.1	304.2	304.2	307.1	307.1	310.0	312.9	315.8
92.5°	283.9	281.0	278.1	278.1	275.2	275.2	278.1	275.2	281.0	281.0	283.9
95°	257.8	254.9	252.0	252.0	252.0	252.0	252.0	252.0	254.9	254.9	257.8
97.5°	234.6	231.8	228.9	228.9	231.8	228.9	231.8	231.8	231.8	234.6	237.5
100°	214.4	211.5	211.5	214.4	211.5	211.5	214.4	214.4	214.4	214.4	217.3
102.5°	197.0	197.0	197.0	197.0	197.0	197.0	199.9	199.9	199.9	199.9	202.8
105°	179.6	182.5	182.5	182.5	185.4	185.4	185.4	188.3	188.3	188.3	188.3
107.5°	168.0	170.9	170.9	173.8	173.8	176.7	176.7	176.7	176.7	179.6	179.6
110°	156.4	159.3	162.2	165.1	165.1	168.0	168.0	168.0	168.0	168.0	168.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	144.8	147.7	150.6	156.4	159.3	159.3	159.3	159.3	162.2	162.2	159.3
115°	133.3	139.1	141.9	147.7	150.6	150.6	153.5	153.5	153.5	153.5	150.6
117.5°	121.7	130.4	133.3	139.1	141.9	141.9	144.8	144.8	144.8	144.8	141.9
120°	113.0	118.8	124.6	127.5	130.4	133.3	133.3	136.2	136.2	136.2	133.3
122.5°	104.3	110.1	115.9	118.8	121.7	124.6	124.6	124.6	124.6	124.6	124.6
125°	92.7	98.5	104.3	107.2	110.1	113.0	113.0	115.9	115.9	115.9	113.0
127.5°	84.0	89.8	92.7	98.5	101.4	101.4	104.3	104.3	104.3	104.3	101.4
130°	72.4	78.2	84.0	86.9	89.8	89.8	92.7	92.7	92.7	92.7	92.7
132.5°	63.7	69.5	72.4	78.2	78.2	81.1	81.1	84.0	84.0	84.0	81.1
135°	57.9	60.8	63.7	69.5	69.5	72.4	72.4	72.4	72.4	72.4	72.4
137.5°	52.1	55.0	57.9	60.8	60.8	63.7	63.7	63.7	63.7	66.6	63.7
140°	43.5	49.2	52.1	52.1	55.0	55.0	55.0	57.9	57.9	57.9	55.0
142.5°	37.7	40.6	43.5	46.4	49.2	49.2	49.2	49.2	52.1	49.2	49.2
145°	29.0	34.8	37.7	40.6	43.5	43.5	43.5	43.5	43.5	43.5	43.5
147.5°	23.2	26.1	31.9	34.8	34.8	37.7	37.7	37.7	37.7	37.7	37.7
150°	20.3	20.3	26.1	29.0	31.9	31.9	31.9	31.9	31.9	31.9	31.9
152.5°	14.5	17.4	20.3	23.2	26.1	26.1	26.1	26.1	26.1	26.1	26.1
155°	14.5	14.5	17.4	17.4	20.3	20.3	20.3	20.3	23.2	20.3	20.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5585.2	5582.3	5593.9	5582.3	5524.4	5547.5	5538.9	5570.7	5573.6	5582.3	5611.3
5°	5556.2	5556.2	5570.7	5559.1	5504.1	5527.3	5524.4	5556.2	5562.0	5567.8	5599.7
7.5°	5498.3	5501.2	5521.5	5512.8	5454.8	5489.6	5486.7	5524.4	5536.0	5547.5	5576.5
10°	5443.3	5440.4	5463.5	5454.8	5399.8	5440.4	5437.5	5475.1	5492.5	5512.8	5547.5
12.5°	5414.3	5405.6	5414.3	5405.6	5344.8	5376.6	5379.5	5423.0	5443.3	5469.3	5509.9
15°	5414.3	5399.8	5399.8	5382.4	5312.9	5333.2	5336.1	5365.0	5391.1	5417.2	5466.4
17.5°	5408.5	5394.0	5391.1	5376.6	5301.3	5301.3	5298.4	5318.7	5333.2	5359.2	5411.4
20°	5376.6	5370.8	5367.9	5359.2	5289.7	5278.1	5272.3	5272.3	5281.0	5289.7	5341.9
22.5°	5292.6	5298.4	5304.2	5310.0	5255.0	5234.7	5237.6	5231.8	5223.1	5223.1	5266.5
25°	5136.2	5165.2	5188.3	5214.4	5182.5	5168.0	5185.4	5176.7	5162.3	5150.7	5188.3
27.5°	4887.1	4947.9	4997.1	5060.9	5063.8	5052.2	5098.5	5092.7	5089.8	5072.5	5101.4
30°	4542.3	4637.9	4704.5	4797.2	4875.5	4887.1	4965.3	4976.9	4988.4	4979.8	5008.7
32.5°	4125.2	4255.5	4368.5	4513.4	4588.7	4655.3	4765.4	4811.7	4858.1	4872.6	4904.4
35°	3670.4	3818.1	3951.4	4110.7	4229.5	4374.3	4507.6	4577.1	4681.4	4721.9	4768.3
37.5°	3238.7	3377.8	3508.1	3667.5	3858.7	4009.3	4174.4	4330.8	4472.8	4530.7	4600.3
40°	2856.3	2969.3	3093.9	3232.9	3406.7	3603.7	3783.3	4000.6	4168.6	4284.5	4385.9
42.5°	2566.6	2621.7	2728.9	2853.4	2992.5	3192.4	3374.9	3618.2	3821.0	3986.1	4154.1
45°	2308.8	2334.9	2413.1	2479.7	2621.7	2798.4	2992.5	3230.0	3441.5	3653.0	3855.8
47.5°	2088.7	2120.5	2158.2	2198.7	2300.1	2447.9	2615.9	2830.3	3041.7	3288.0	3519.7
50°	1940.9	1949.6	1955.4	1972.8	2033.6	2135.0	2271.2	2453.7	2656.4	2920.1	3166.3
52.5°	1810.6	1810.6	1793.2	1784.5	1807.7	1871.4	1949.6	2080.0	2288.5	2531.9	2792.6
55°	1671.5	1645.4	1639.6	1610.7	1616.5	1645.4	1683.1	1784.5	1955.4	2164.0	2416.0
57.5°	1477.4	1465.8	1465.8	1454.2	1431.1	1445.5	1454.2	1526.7	1648.3	1827.9	2048.1
60°	1254.4	1248.6	1263.0	1265.9	1245.7	1254.4	1251.5	1294.9	1381.8	1526.7	1709.2
62.5°	1031.3	1057.4	1060.3	1071.8	1060.3	1057.4	1071.8	1109.5	1153.0	1263.0	1405.0
65°	866.2	880.7	883.6	898.0	892.2	892.2	903.8	932.8	958.9	1034.2	1144.3
67.5°	759.0	753.2	756.1	764.8	756.1	753.2	761.9	779.3	799.5	845.9	924.1
70°	675.0	669.2	669.2	669.2	657.6	648.9	651.8	657.6	666.3	692.4	741.6
72.5°	611.2	611.2	602.6	593.9	585.2	579.4	573.6	567.8	564.9	573.6	599.7
75°	553.3	556.2	553.3	544.6	533.0	521.4	509.9	498.3	483.8	478.0	480.9
77.5°	501.2	504.1	507.0	504.1	492.5	478.0	460.6	443.2	422.9	402.7	391.1
80°	454.8	460.6	463.5	460.6	451.9	440.3	420.0	399.8	370.8	344.7	315.8
82.5°	414.3	422.9	425.8	425.8	420.0	408.5	385.3	362.1	330.2	295.5	257.8
85°	382.4	388.2	394.0	394.0	391.1	379.5	356.3	330.2	298.4	257.8	217.3
87.5°	350.5	353.4	359.2	365.0	359.2	347.6	327.3	298.4	266.5	226.0	179.6
90°	318.7	321.6	327.3	333.1	330.2	318.7	301.3	275.2	240.4	197.0	150.6
92.5°	286.8	292.6	295.5	298.4	301.3	292.6	278.1	252.0	217.3	173.8	130.4
95°	263.6	263.6	269.4	272.3	275.2	266.5	254.9	228.9	197.0	156.4	113.0
97.5°	240.4	240.4	246.2	246.2	249.1	243.3	231.8	208.6	176.7	139.1	95.6
100°	217.3	220.2	223.1	226.0	226.0	223.1	211.5	188.3	159.3	124.6	84.0
102.5°	202.8	202.8	205.7	205.7	208.6	202.8	191.2	170.9	141.9	110.1	72.4
105°	188.3	188.3	191.2	191.2	188.3	182.5	170.9	153.5	127.5	95.6	63.7
107.5°	176.7	176.7	176.7	176.7	173.8	168.0	156.4	136.2	113.0	86.9	57.9
110°	168.0	165.1	165.1	162.2	159.3	150.6	139.1	121.7	101.4	75.3	49.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	159.3	156.4	153.5	150.6	144.8	136.2	124.6	110.1	89.8	66.6	43.5
115°	150.6	147.7	144.8	139.1	133.3	124.6	113.0	98.5	78.2	57.9	37.7
117.5°	141.9	139.1	133.3	127.5	121.7	113.0	101.4	86.9	69.5	52.1	34.8
120°	130.4	127.5	124.6	118.8	113.0	101.4	89.8	78.2	60.8	46.4	29.0
122.5°	121.7	118.8	113.0	110.1	101.4	92.7	81.1	69.5	55.0	40.6	26.1
125°	110.1	107.2	104.3	98.5	92.7	81.1	72.4	60.8	49.2	34.8	20.3
127.5°	101.4	98.5	92.7	86.9	81.1	72.4	63.7	55.0	43.5	29.0	20.3
130°	89.8	86.9	84.0	78.2	72.4	63.7	57.9	46.4	37.7	26.1	17.4
132.5°	78.2	78.2	75.3	69.5	63.7	57.9	49.2	40.6	31.9	23.2	14.5
135°	72.4	69.5	66.6	60.8	57.9	49.2	43.5	34.8	26.1	20.3	11.6
137.5°	63.7	60.8	57.9	55.0	49.2	43.5	37.7	29.0	23.2	17.4	11.6
140°	55.0	52.1	52.1	46.4	43.5	37.7	31.9	26.1	20.3	14.5	8.7
142.5°	49.2	46.4	43.5	40.6	37.7	31.9	26.1	20.3	17.4	11.6	8.7
145°	43.5	40.6	37.7	34.8	31.9	26.1	23.2	17.4	14.5	11.6	8.7
147.5°	34.8	34.8	31.9	29.0	26.1	23.2	20.3	17.4	11.6	8.7	5.8
150°	29.0	29.0	26.1	23.2	23.2	20.3	17.4	14.5	11.6	8.7	5.8
152.5°	26.1	23.2	23.2	20.3	20.3	17.4	14.5	11.6	8.7	8.7	5.8
155°	20.3	20.3	20.3	17.4	17.4	14.5	11.6	11.6	8.7	5.8	5.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5617.1	5582.3	5611.3	5663.4	5657.6	5651.8	5646.0	5657.6	5695.3	5675.0	5643.1
5°	5608.4	5573.6	5605.5	5654.7	5651.8	5643.1	5637.3	5648.9	5686.6	5666.3	5631.6
7.5°	5591.0	5559.1	5582.3	5631.6	5631.6	5625.8	5620.0	5631.6	5666.3	5648.9	5614.2
10°	5562.0	5538.9	5562.0	5608.4	5611.3	5599.7	5593.9	5608.4	5643.1	5634.4	5605.5
12.5°	5538.9	5515.7	5541.7	5588.1	5591.0	5579.4	5570.7	5588.1	5634.4	5640.2	5631.6
15°	5507.0	5486.7	5518.6	5567.8	5567.8	5559.1	5559.1	5582.3	5646.0	5672.1	5686.6
17.5°	5460.6	5446.2	5483.8	5533.1	5536.0	5530.2	5533.1	5579.4	5663.4	5727.1	5767.7
20°	5402.7	5396.9	5437.5	5489.6	5498.3	5501.2	5515.7	5585.2	5701.1	5788.0	5828.5
22.5°	5333.2	5336.1	5382.4	5437.5	5449.0	5457.7	5486.7	5585.2	5730.0	5822.7	5840.1
25°	5255.0	5263.6	5312.9	5379.5	5394.0	5411.4	5460.6	5588.1	5738.7	5799.6	5770.6
27.5°	5170.9	5188.3	5252.1	5321.6	5339.0	5367.9	5431.7	5570.7	5698.2	5701.1	5593.9
30°	5084.0	5104.3	5179.6	5260.7	5289.7	5318.7	5396.9	5530.2	5599.7	5507.0	5318.7
32.5°	4985.5	5014.5	5089.8	5188.3	5223.1	5260.7	5339.0	5451.9	5425.9	5226.0	4956.6
35°	4861.0	4901.5	4988.4	5104.3	5136.2	5185.4	5240.5	5266.5	5150.7	4866.8	4562.6
37.5°	4707.4	4768.3	4869.7	5002.9	5037.7	5069.6	5084.0	5011.6	4779.9	4472.8	4157.0
40°	4530.7	4623.4	4733.5	4881.3	4916.0	4916.0	4863.9	4710.3	4417.8	4015.1	3664.6
42.5°	4316.4	4429.3	4568.4	4716.1	4750.9	4710.3	4585.8	4316.4	3983.2	3534.2	3163.4
45°	4055.6	4206.3	4362.7	4516.2	4533.6	4443.8	4220.8	3878.9	3467.6	3050.4	2697.0
47.5°	3745.7	3942.7	4113.6	4287.4	4264.2	4113.6	3815.2	3427.0	2992.5	2598.5	2314.6
50°	3398.1	3629.8	3821.0	3986.1	3936.9	3728.3	3377.8	2972.2	2540.6	2204.5	1969.9
52.5°	3027.2	3293.8	3485.0	3618.2	3551.6	3302.5	2917.2	2529.0	2175.6	1868.5	1712.1
55°	2642.0	2911.4	3108.4	3212.6	3125.7	2856.3	2476.8	2123.4	1790.3	1590.4	1497.7
57.5°	2268.3	2520.3	2705.7	2789.7	2679.6	2410.2	2059.7	1761.3	1520.9	1352.8	1306.5
60°	1909.0	2114.7	2291.4	2355.2	2236.4	1987.3	1686.0	1448.4	1271.7	1155.9	1132.7
62.5°	1575.9	1743.9	1883.0	1932.2	1816.3	1622.3	1361.5	1184.8	1060.3	1002.3	973.4
65°	1300.7	1399.2	1541.1	1532.5	1462.9	1283.3	1092.1	967.6	886.4	848.8	831.4
67.5°	1022.6	1112.4	1202.2	1213.8	1126.9	1002.3	877.8	788.0	744.5	724.2	715.5
70°	790.9	857.5	912.5	898.0	851.7	773.5	695.3	646.0	628.6	619.9	619.9
72.5°	614.1	648.9	675.0	657.6	628.6	588.1	550.4	530.1	533.0	538.8	544.6
75°	475.1	483.8	489.6	472.2	466.4	440.3	437.4	440.3	457.7	475.1	483.8
77.5°	365.0	353.4	344.7	327.3	330.2	327.3	341.8	365.0	391.1	417.2	440.3
80°	281.0	254.9	234.6	217.3	226.0	240.4	269.4	304.2	338.9	367.9	396.9
82.5°	217.3	179.6	150.6	133.3	150.6	173.8	211.5	254.9	295.5	327.3	359.2
85°	168.0	124.6	89.8	72.4	89.8	124.6	165.1	214.4	257.8	292.6	324.5
87.5°	130.4	89.8	49.2	29.0	49.2	86.9	133.3	179.6	223.1	263.6	295.5
90°	104.3	60.8	23.2	5.8	26.1	60.8	104.3	150.6	194.1	237.5	269.4
92.5°	84.0	43.5	11.6	0.0	14.5	46.4	86.9	130.4	173.8	214.4	246.2
95°	69.5	34.8	8.7	0.0	11.6	34.8	69.5	113.0	153.5	194.1	220.2
97.5°	57.9	26.1	5.8	0.0	5.8	29.0	57.9	95.6	136.2	173.8	199.9
100°	49.2	23.2	5.8	0.0	5.8	23.2	49.2	84.0	118.8	153.5	179.6
102.5°	40.6	17.4	2.9	2.9	2.9	17.4	43.5	72.4	104.3	136.2	162.2
105°	37.7	14.5	2.9	2.9	2.9	14.5	37.7	63.7	92.7	121.7	144.8
107.5°	31.9	11.6	2.9	2.9	2.9	11.6	31.9	55.0	84.0	110.1	130.4
110°	26.1	11.6	2.9	2.9	2.9	11.6	26.1	49.2	72.4	95.6	115.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.2	8.7	2.9	2.9	2.9	8.7	23.2	43.5	63.7	86.9	104.3
115°	20.3	8.7	2.9	2.9	2.9	8.7	20.3	37.7	55.0	75.3	92.7
117.5°	17.4	8.7	2.9	2.9	2.9	5.8	17.4	31.9	49.2	66.6	84.0
120°	14.5	5.8	2.9	2.9	2.9	5.8	14.5	29.0	43.5	57.9	72.4
122.5°	14.5	5.8	2.9	2.9	2.9	5.8	11.6	23.2	37.7	49.2	63.7
125°	11.6	5.8	2.9	2.9	2.9	2.9	11.6	20.3	31.9	43.5	55.0
127.5°	11.6	5.8	2.9	2.9	2.9	2.9	8.7	17.4	26.1	37.7	49.2
130°	8.7	5.8	2.9	2.9	2.9	2.9	5.8	14.5	23.2	31.9	40.6
132.5°	8.7	5.8	2.9	2.9	2.9	2.9	5.8	11.6	17.4	26.1	34.8
135°	8.7	2.9	2.9	2.9	2.9	2.9	2.9	8.7	14.5	20.3	26.1
137.5°	5.8	2.9	2.9	2.9	2.9	2.9	2.9	5.8	11.6	14.5	23.2
140°	5.8	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.7	11.6	17.4
142.5°	5.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.7	14.5
145°	5.8	2.9	2.9	5.8	5.8	2.9	2.9	5.8	5.8	8.7	11.6
147.5°	5.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.8	5.8	8.7
150°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7
152.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
155°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5637.3	5570.7	5605.5	5593.9	5605.5	5634.4	5631.6	5622.9	5628.7	5614.2	5599.7
5°	5625.8	5559.1	5593.9	5579.4	5593.9	5622.9	5617.1	5608.4	5617.1	5599.7	5585.2
7.5°	5611.3	5550.4	5591.0	5588.1	5614.2	5651.8	5654.7	5654.7	5675.0	5648.9	5637.3
10°	5611.3	5579.4	5634.4	5654.7	5721.4	5770.6	5776.4	5788.0	5822.7	5817.0	5788.0
12.5°	5672.1	5666.3	5747.4	5796.7	5857.5	5927.0	5964.7	5976.3	5999.5	5982.1	5970.5
15°	5750.3	5779.3	5869.1	5924.1	5990.8	6042.9	6051.6	6057.4	6074.8	6048.7	6028.4
17.5°	5854.6	5872.0	5944.4	5967.6	6011.0	6019.7	6008.1	5979.2	5979.2	5921.2	5903.9
20°	5903.9	5895.2	5924.1	5886.5	5869.1	5817.0	5767.7	5712.7	5709.8	5648.9	5643.1
22.5°	5860.4	5802.5	5741.6	5648.9	5608.4	5533.1	5466.4	5434.6	5414.3	5336.1	5315.8
25°	5706.9	5564.9	5475.1	5365.0	5266.5	5179.6	5115.9	5049.3	4985.5	4921.8	4892.8
27.5°	5440.4	5307.1	5162.3	5008.7	4872.6	4739.3	4632.1	4565.5	4504.7	4420.7	4377.2
30°	5113.0	4927.6	4768.3	4620.5	4397.5	4235.3	4145.4	4012.2	3965.8	3928.2	3847.1
32.5°	4727.7	4504.7	4287.4	4087.5	3858.7	3708.0	3589.2	3490.8	3461.8	3363.3	3340.1
35°	4301.9	4009.3	3763.1	3566.1	3400.9	3218.4	3119.9	3053.3	2995.4	2928.8	2917.2
37.5°	3800.7	3537.1	3259.0	3085.2	2954.8	2798.4	2723.1	2676.7	2650.7	2601.4	2592.7
40°	3296.7	3033.0	2841.8	2668.0	2586.9	2502.9	2447.9	2427.6	2416.0	2398.6	2381.2
42.5°	2839.0	2607.2	2471.0	2355.2	2320.4	2279.9	2265.4	2277.0	2265.4	2259.6	2256.7
45°	2450.8	2274.1	2178.5	2143.7	2135.0	2123.4	2135.0	2155.3	2158.2	2152.4	2152.4
47.5°	2097.3	2013.3	1972.8	1978.6	1993.1	2001.7	2022.0	2048.1	2053.9	2039.4	2045.2
50°	1865.6	1816.3	1807.7	1830.8	1862.7	1874.3	1897.5	1917.7	1914.8	1909.0	1903.3
52.5°	1648.3	1633.8	1657.0	1680.2	1715.0	1720.8	1729.4	1738.1	1735.2	1723.6	1717.9
55°	1465.8	1477.4	1497.7	1506.4	1532.5	1529.6	1532.5	1532.5	1520.9	1515.1	1506.4
57.5°	1300.7	1303.6	1315.2	1318.1	1332.6	1326.8	1323.9	1318.1	1300.7	1297.8	1289.1
60°	1132.7	1126.9	1153.0	1132.7	1144.3	1132.7	1129.8	1115.3	1097.9	1095.0	1089.2
62.5°	973.4	961.8	979.1	970.5	976.3	964.7	958.9	941.5	927.0	924.1	921.2
65°	831.4	825.6	843.0	840.1	845.9	831.4	825.6	814.0	802.4	799.5	796.6
67.5°	712.6	727.1	735.8	735.8	741.6	738.7	724.2	721.3	718.4	706.8	706.8
70°	625.7	634.4	651.8	654.7	651.8	657.6	646.0	643.1	640.2	634.4	631.5
72.5°	556.2	567.8	585.2	588.1	585.2	585.2	579.4	576.5	576.5	567.8	567.8
75°	501.2	515.6	530.1	530.1	530.1	524.3	518.5	518.5	512.7	509.9	504.1
77.5°	454.8	472.2	483.8	480.9	478.0	472.2	472.2	463.5	454.8	454.8	449.0
80°	420.0	431.6	440.3	437.4	434.5	425.8	422.9	414.3	408.5	399.8	399.8
82.5°	382.4	396.9	402.7	399.8	394.0	385.3	382.4	376.6	370.8	367.9	362.1
85°	350.5	365.0	367.9	362.1	356.3	350.5	347.6	344.7	341.8	336.0	336.0
87.5°	318.7	333.1	333.1	330.2	324.5	321.6	318.7	315.8	312.9	310.0	307.1
90°	292.6	304.2	304.2	301.3	298.4	295.5	292.6	289.7	286.8	283.9	283.9
92.5°	266.5	278.1	278.1	275.2	272.3	269.4	269.4	266.5	263.6	260.7	257.8
95°	243.3	254.9	254.9	254.9	252.0	249.1	249.1	246.2	243.3	243.3	240.4
97.5°	220.2	231.8	231.8	231.8	228.9	226.0	226.0	223.1	223.1	223.1	220.2
100°	199.9	208.6	211.5	211.5	208.6	208.6	208.6	205.7	205.7	205.7	202.8
102.5°	179.6	188.3	194.1	194.1	194.1	191.2	191.2	191.2	191.2	191.2	188.3
105°	162.2	170.9	176.7	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
107.5°	147.7	156.4	162.2	165.1	168.0	168.0	170.9	170.9	170.9	170.9	170.9
110°	133.3	141.9	150.6	153.5	156.4	159.3	159.3	162.2	159.3	159.3	159.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	118.8	130.4	136.2	141.9	144.8	147.7	150.6	150.6	150.6	150.6	150.6
115°	107.2	118.8	124.6	130.4	136.2	139.1	139.1	141.9	141.9	141.9	139.1
117.5°	95.6	107.2	113.0	118.8	121.7	127.5	130.4	130.4	130.4	130.4	127.5
120°	86.9	95.6	101.4	107.2	113.0	115.9	118.8	118.8	118.8	118.8	118.8
122.5°	75.3	84.0	92.7	98.5	101.4	104.3	107.2	107.2	107.2	107.2	107.2
125°	66.6	75.3	81.1	86.9	89.8	95.6	95.6	95.6	95.6	95.6	95.6
127.5°	57.9	66.6	72.4	78.2	81.1	84.0	86.9	86.9	86.9	86.9	86.9
130°	49.2	57.9	63.7	69.5	72.4	75.3	75.3	78.2	78.2	78.2	78.2
132.5°	43.5	49.2	55.0	60.8	63.7	66.6	66.6	69.5	69.5	69.5	69.5
135°	34.8	43.5	46.4	52.1	55.0	57.9	57.9	60.8	60.8	60.8	60.8
137.5°	29.0	34.8	40.6	46.4	49.2	49.2	52.1	52.1	55.0	55.0	55.0
140°	23.2	26.1	34.8	37.7	40.6	43.5	46.4	46.4	46.4	46.4	46.4
142.5°	17.4	23.2	26.1	31.9	34.8	37.7	40.6	40.6	40.6	40.6	40.6
145°	14.5	17.4	20.3	26.1	29.0	31.9	34.8	34.8	34.8	34.8	34.8
147.5°	11.6	14.5	17.4	20.3	23.2	26.1	29.0	29.0	29.0	29.0	29.0
150°	8.7	11.6	14.5	14.5	17.4	20.3	23.2	26.1	26.1	26.1	26.1
152.5°	8.7	8.7	11.6	11.6	14.5	17.4	20.3	20.3	20.3	20.3	20.3
155°	5.8	8.7	8.7	8.7	11.6	11.6	14.5	17.4	17.4	17.4	17.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5608.4	5620.0	5614.2	5605.5	5602.6	5617.1	5602.6	5536.0	5562.0	5564.9	5585.2
5°	5599.7	5608.4	5602.6	5596.8	5588.1	5605.5	5588.1	5518.6	5544.6	5547.5	5567.8
7.5°	5657.6	5660.5	5660.5	5646.0	5622.9	5631.6	5608.4	5530.2	5544.6	5544.6	5559.1
10°	5802.5	5808.3	5817.0	5779.3	5750.3	5727.1	5695.3	5599.7	5596.8	5573.6	5573.6
12.5°	5990.8	5976.3	5961.8	5944.4	5921.2	5892.3	5845.9	5732.9	5695.3	5657.6	5620.0
15°	6045.8	6040.0	6037.1	6028.4	6013.9	6005.2	5970.5	5857.5	5802.5	5756.1	5689.5
17.5°	5901.0	5912.5	5950.2	5953.1	5970.5	6005.2	5999.5	5921.2	5872.0	5851.7	5770.6
20°	5640.2	5643.1	5689.5	5709.8	5785.1	5843.0	5886.5	5877.8	5866.2	5889.4	5828.5
22.5°	5327.4	5347.7	5396.9	5428.8	5501.2	5567.8	5637.3	5675.0	5735.8	5831.4	5819.8
25°	4901.5	4927.6	4997.1	5049.3	5150.7	5252.1	5344.8	5411.4	5483.8	5666.3	5727.1
27.5°	4391.7	4432.2	4522.0	4574.2	4716.1	4820.4	4953.7	5084.0	5185.4	5394.0	5518.6
30°	3855.8	3890.5	3986.1	4058.5	4180.2	4322.2	4490.2	4675.6	4843.6	5055.1	5211.5
32.5°	3354.6	3392.3	3470.5	3534.2	3670.4	3789.1	3974.5	4203.4	4359.8	4652.4	4861.0
35°	2917.2	2951.9	3007.0	3062.0	3175.0	3296.7	3456.0	3679.0	3878.9	4183.1	4446.7
37.5°	2610.1	2615.9	2647.8	2679.6	2763.6	2856.3	2980.9	3177.9	3363.3	3690.6	3980.3
40°	2389.9	2389.9	2407.3	2416.0	2453.7	2508.7	2586.9	2740.5	2894.0	3143.1	3496.5
42.5°	2253.8	2248.0	2248.0	2250.9	2248.0	2274.1	2320.4	2392.8	2529.0	2734.7	3009.9
45°	2152.4	2140.8	2132.1	2111.8	2100.2	2100.2	2103.1	2129.2	2207.4	2340.7	2563.7
47.5°	2039.4	2036.5	2022.0	1998.9	1978.6	1964.1	1940.9	1932.2	1955.4	2030.7	2181.4
50°	1909.0	1894.6	1880.1	1862.7	1839.5	1825.0	1781.6	1784.5	1764.2	1799.0	1877.2
52.5°	1717.9	1706.3	1700.5	1686.0	1677.3	1671.5	1636.7	1602.0	1593.3	1599.1	1628.1
55°	1506.4	1512.2	1489.0	1500.6	1497.7	1471.6	1457.1	1431.1	1422.4	1419.5	1434.0
57.5°	1286.2	1292.0	1277.5	1289.1	1289.1	1274.6	1265.9	1265.9	1245.7	1228.3	1248.6
60°	1086.3	1074.7	1083.4	1097.9	1097.9	1089.2	1083.4	1083.4	1069.0	1063.2	1077.6
62.5°	924.1	912.5	921.2	935.7	938.6	932.8	927.0	927.0	909.6	909.6	921.2
65°	799.5	802.4	799.5	811.1	811.1	814.0	808.2	802.4	782.2	790.9	788.0
67.5°	709.7	706.8	706.8	718.4	715.5	721.3	715.5	706.8	692.4	680.8	677.9
70°	634.4	631.5	631.5	637.3	640.2	640.2	637.3	631.5	611.2	599.7	591.0
72.5°	567.8	564.9	567.8	570.7	573.6	576.5	573.6	567.8	550.4	535.9	521.4
75°	507.0	504.1	512.7	512.7	515.6	515.6	518.5	515.6	501.2	483.8	466.4
77.5°	446.1	449.0	457.7	460.6	466.4	469.3	472.2	472.2	457.7	443.2	420.0
80°	396.9	402.7	408.5	411.4	417.2	425.8	428.7	431.6	420.0	405.6	379.5
82.5°	362.1	365.0	370.8	373.7	382.4	385.3	388.2	394.0	388.2	373.7	344.7
85°	333.1	336.0	341.8	341.8	347.6	353.4	356.3	359.2	356.3	341.8	312.9
87.5°	307.1	310.0	312.9	315.8	318.7	321.6	324.5	327.3	324.5	310.0	283.9
90°	283.9	283.9	286.8	286.8	289.7	292.6	298.4	298.4	295.5	283.9	257.8
92.5°	257.8	260.7	260.7	263.6	266.5	269.4	272.3	272.3	269.4	257.8	234.6
95°	240.4	240.4	243.3	243.3	246.2	246.2	249.1	249.1	246.2	234.6	211.5
97.5°	220.2	220.2	220.2	220.2	223.1	223.1	226.0	226.0	223.1	211.5	191.2
100°	202.8	202.8	202.8	202.8	202.8	205.7	205.7	205.7	202.8	191.2	170.9
102.5°	188.3	188.3	188.3	188.3	188.3	188.3	188.3	188.3	182.5	173.8	153.5
105°	179.6	179.6	179.6	176.7	176.7	176.7	173.8	173.8	165.1	156.4	139.1
107.5°	168.0	168.0	168.0	165.1	165.1	162.2	159.3	159.3	150.6	141.9	124.6
110°	159.3	159.3	159.3	156.4	153.5	150.6	147.7	144.8	136.2	124.6	110.1





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	150.6	150.6	147.7	147.7	144.8	141.9	136.2	133.3	124.6	113.0	98.5
115°	139.1	139.1	139.1	136.2	133.3	130.4	127.5	121.7	113.0	101.4	86.9
117.5°	127.5	127.5	127.5	124.6	121.7	118.8	115.9	110.1	101.4	89.8	78.2
120°	115.9	115.9	115.9	113.0	110.1	107.2	104.3	98.5	89.8	81.1	66.6
122.5°	107.2	107.2	104.3	101.4	98.5	95.6	92.7	86.9	81.1	69.5	57.9
125°	95.6	95.6	92.7	92.7	89.8	86.9	84.0	78.2	69.5	60.8	52.1
127.5°	86.9	84.0	84.0	84.0	81.1	78.2	72.4	69.5	60.8	52.1	43.5
130°	75.3	75.3	75.3	72.4	72.4	69.5	63.7	57.9	52.1	46.4	37.7
132.5°	66.6	66.6	66.6	66.6	63.7	60.8	55.0	52.1	46.4	37.7	31.9
135°	60.8	60.8	57.9	57.9	55.0	52.1	49.2	43.5	37.7	31.9	26.1
137.5°	52.1	52.1	52.1	49.2	49.2	46.4	40.6	37.7	34.8	29.0	23.2
140°	46.4	46.4	43.5	43.5	40.6	40.6	37.7	31.9	29.0	23.2	20.3
142.5°	40.6	40.6	37.7	37.7	34.8	34.8	31.9	29.0	23.2	20.3	14.5
145°	34.8	34.8	31.9	31.9	31.9	29.0	26.1	23.2	20.3	17.4	14.5
147.5°	29.0	29.0	29.0	26.1	26.1	23.2	23.2	20.3	17.4	14.5	11.6
150°	26.1	26.1	23.2	23.2	23.2	20.3	17.4	17.4	14.5	11.6	8.7
152.5°	20.3	20.3	20.3	20.3	17.4	17.4	14.5	14.5	11.6	8.7	8.7
155°	17.4	17.4	17.4	14.5	14.5	14.5	11.6	11.6	8.7	8.7	5.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4	5608.4
2.5°	5576.5	5573.6	5599.7	5596.8	5562.0	5614.2	5648.9
5°	5562.0	5559.1	5582.3	5588.1	5550.4	5605.5	5643.1
7.5°	5550.4	5547.5	5573.6	5582.3	5544.6	5593.9	5634.4
10°	5553.3	5538.9	5562.0	5567.8	5533.1	5585.2	5620.0
12.5°	5573.6	5538.9	5547.5	5547.5	5515.7	5562.0	5599.7
15°	5622.9	5550.4	5538.9	5530.2	5489.6	5533.1	5570.7
17.5°	5677.9	5579.4	5538.9	5509.9	5460.6	5498.3	5538.9
20°	5732.9	5611.3	5544.6	5498.3	5431.7	5466.4	5495.4
22.5°	5759.0	5640.2	5550.4	5480.9	5396.9	5414.3	5446.2
25°	5724.3	5628.7	5538.9	5454.8	5353.4	5356.3	5382.4
27.5°	5596.8	5570.7	5512.8	5428.8	5318.7	5304.2	5324.5
30°	5379.5	5451.9	5454.8	5394.0	5278.1	5249.2	5257.9
32.5°	5075.3	5237.6	5333.2	5321.6	5220.2	5179.6	5185.4
35°	4724.8	4927.6	5136.2	5205.7	5133.3	5101.4	5089.8
37.5°	4304.8	4577.1	4855.2	5026.1	5014.5	4994.2	4982.6
40°	3841.3	4168.6	4498.9	4771.2	4855.2	4855.2	4861.0
42.5°	3345.9	3728.3	4090.4	4435.1	4632.1	4675.6	4693.0
45°	2867.9	3253.2	3647.2	4044.1	4307.7	4443.8	4493.1
47.5°	2433.4	2821.6	3195.3	3629.8	3980.3	4157.0	4235.3
50°	2062.6	2352.3	2746.3	3177.9	3560.3	3777.5	3931.1
52.5°	1755.5	1981.5	2326.2	2728.9	3114.2	3412.5	3554.5
55°	1497.7	1651.2	1943.8	2291.4	2659.3	2969.3	3134.4
57.5°	1280.4	1402.1	1602.0	1891.7	2201.6	2508.7	2685.4
60°	1089.2	1173.2	1309.4	1538.2	1801.9	2065.5	2236.4
62.5°	924.1	979.1	1069.0	1237.0	1442.7	1648.3	1807.7
65°	796.6	819.8	869.1	973.4	1129.8	1286.2	1422.4
67.5°	672.1	686.6	724.2	788.0	866.2	979.1	1069.0
70°	579.4	579.4	582.3	619.9	660.5	732.9	796.6
72.5°	504.1	495.4	478.0	486.7	495.4	535.9	576.5
75°	443.2	422.9	394.0	382.4	376.6	382.4	405.6
77.5°	391.1	362.1	327.3	298.4	275.2	266.5	286.8
80°	347.6	312.9	272.3	234.6	197.0	176.7	185.4
82.5°	312.9	269.4	226.0	182.5	139.1	110.1	110.1
85°	275.2	234.6	188.3	141.9	98.5	60.8	55.0
87.5°	249.1	205.7	156.4	113.0	69.5	31.9	17.4
90°	223.1	179.6	133.3	89.8	49.2	14.5	0.0
92.5°	199.9	159.3	115.9	72.4	34.8	8.7	0.0
95°	179.6	141.9	98.5	60.8	29.0	5.8	2.9
97.5°	159.3	124.6	86.9	49.2	20.3	5.8	2.9
100°	144.8	110.1	75.3	40.6	17.4	2.9	2.9
102.5°	127.5	98.5	63.7	34.8	14.5	2.9	2.9
105°	113.0	86.9	55.0	29.0	11.6	2.9	2.9
107.5°	101.4	75.3	49.2	26.1	11.6	2.9	2.9
110°	89.8	66.6	43.5	23.2	8.7	2.9	2.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	81.1	57.9	37.7	20.3	5.8	2.9	2.9
115°	69.5	52.1	31.9	17.4	5.8	2.9	2.9
117.5°	60.8	43.5	29.0	14.5	5.8	2.9	2.9
120°	52.1	37.7	23.2	11.6	2.9	2.9	2.9
122.5°	46.4	31.9	20.3	11.6	2.9	2.9	2.9
125°	40.6	29.0	17.4	8.7	2.9	2.9	2.9
127.5°	34.8	23.2	14.5	5.8	2.9	2.9	2.9
130°	29.0	20.3	11.6	5.8	2.9	2.9	2.9
132.5°	23.2	17.4	11.6	5.8	2.9	2.9	2.9
135°	20.3	14.5	8.7	5.8	2.9	2.9	2.9
137.5°	17.4	11.6	5.8	5.8	5.8	2.9	2.9
140°	14.5	8.7	5.8	5.8	5.8	5.8	2.9
142.5°	11.6	8.7	5.8	5.8	5.8	5.8	2.9
145°	8.7	5.8	5.8	5.8	5.8	5.8	2.9
147.5°	8.7	5.8	5.8	5.8	5.8	5.8	2.9
150°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
152.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
155°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)