

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-L930-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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

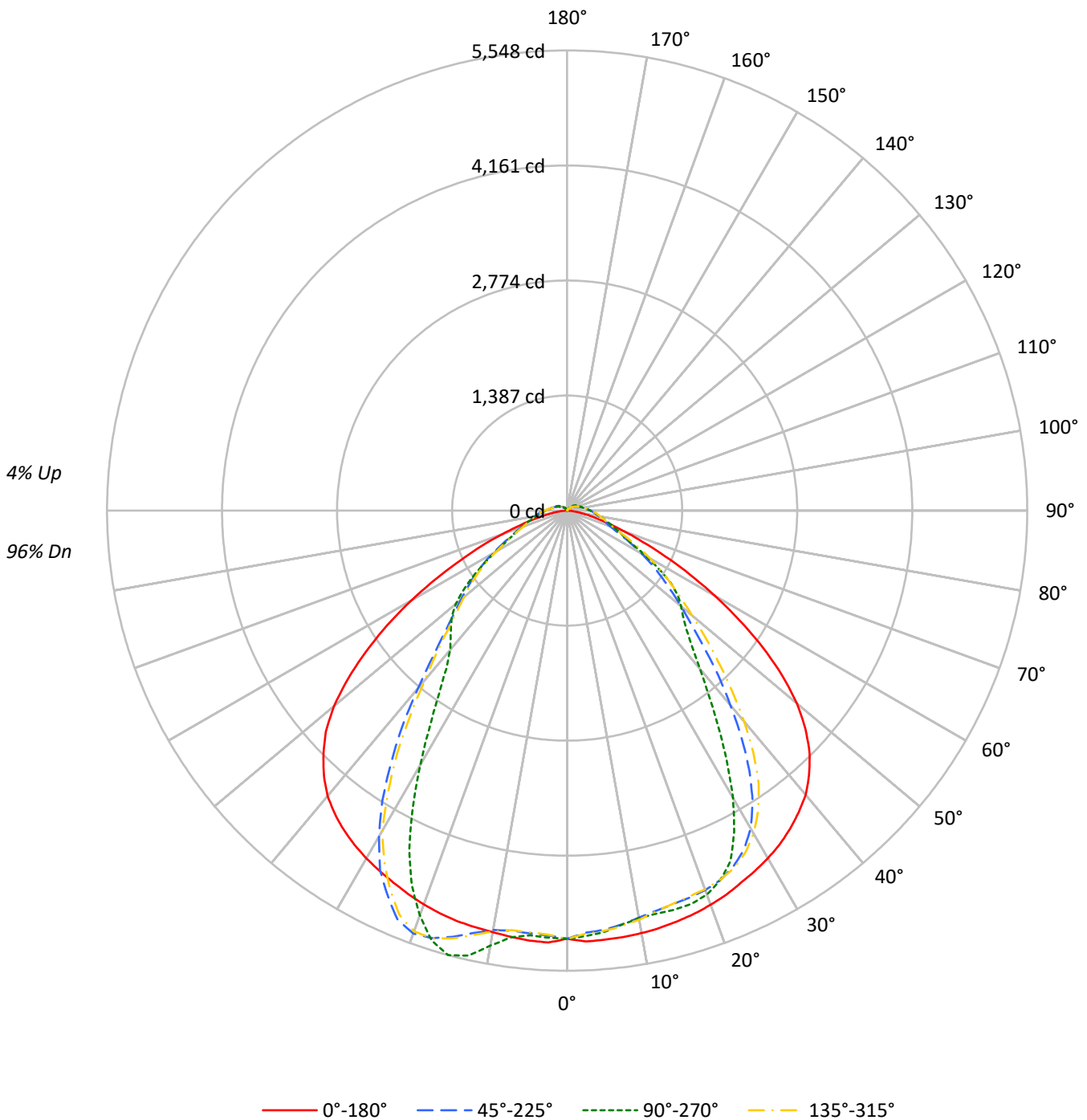
Lumens per Lamp: N/A
Luminaire Lumens: 12305.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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	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°	20855	20855	20855	20855
5°	21036	20029	21080	20186
10°	21163	19196	21119	20499
15°	21357	18939	21346	21087
20°	21624	18639	21601	19647
25°	21925	17682	21913	17085
30°	22375	15325	22387	13577
35°	22856	12392	22921	10487
40°	23292	9978	23389	8791
45°	23266	8452	23385	8230
50°	22326	7781	22639	7608
55°	19878	6994	20374	6358
60°	16195	5353	17055	4909
65°	12110	4095	13047	3884
70°	8305	3535	9362	3380
75°	5507	3190	6411	3016
80°	3646	2974	4275	2736
85°	1994	2967	2624	2710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.3	4.0
10°-20°	1458.8	11.9
20°-30°	2217.8	18.0
30°-40°	2379.1	19.3
40°-50°	2064.9	16.8
50°-60°	1530.2	12.4
60°-70°	876.8	7.1
70°-80°	485.5	3.9
80°-90°	295.6	2.4
90°-100°	192.3	1.6
100°-110°	128.8	1.0
110°-120°	87.0	0.7
120°-130°	53.3	0.4
130°-140°	28.1	0.2
140°-150°	12.8	0.1
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4166.9	33.9
0°-40°	6546.0	53.2
0°-60°	10141.1	82.4
0°-90°	11799.1	95.9
90°-120°	408.0	3.3
90°-150°	502.2	4.1
90°-180°	506.0	4.1
0°-180°	12305.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5162	5162	5162	5162	5162	
5°	5194	5100	5204	5140	5194	495
15°	5127	4983	5124	5548	5127	1451
25°	4954	4660	4951	4503	4954	2290
35°	4684	3173	4698	2685	4684	2932
45°	4135	2034	4156	1981	4135	3166
55°	2885	1525	2957	1386	2885	2558
65°	1309	773	1410	733	1309	1320
75°	373	491	435	464	373	426
85°	51	339	67	309	51	67
90°	0	283	5	261	0	2
95°	3	232	0	221	3	2
105°	3	173	3	165	3	3
115°	3	141	3	128	3	3
125°	3	107	3	88	3	2
135°	3	67	3	56	3	2
145°	3	40	5	32	3	2
155°	5	19	5	16	5	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5199.0	5185.6	5180.3	5169.6	5177.6	5209.6	5188.3	5153.6	5156.3	5095.0	5127.0
5°	5193.6	5177.6	5169.6	5159.0	5164.3	5193.6	5172.3	5137.6	5135.0	5073.7	5103.0
7.5°	5185.6	5169.6	5156.3	5148.3	5151.0	5175.0	5148.3	5108.3	5100.3	5033.7	5060.3
10°	5172.3	5161.6	5143.0	5129.6	5127.0	5153.6	5111.0	5071.0	5052.3	4983.0	5009.7
12.5°	5153.6	5137.6	5119.0	5095.0	5092.3	5108.3	5073.7	5017.7	4999.0	4943.0	4972.3
15°	5127.0	5108.3	5087.0	5060.3	5047.0	5057.7	5015.0	4964.3	4961.7	4913.7	4953.7
17.5°	5097.6	5071.0	5047.0	5009.7	4991.0	4999.0	4964.3	4919.0	4924.3	4895.0	4940.3
20°	5057.7	5028.3	4991.0	4953.7	4927.0	4940.3	4916.4	4881.7	4889.7	4868.4	4908.4
22.5°	5012.3	4972.3	4927.0	4884.4	4863.0	4881.7	4863.0	4833.7	4836.4	4823.0	4847.0
25°	4953.7	4908.4	4855.0	4801.7	4791.0	4804.4	4793.7	4769.7	4759.0	4737.7	4748.4
27.5°	4900.4	4849.7	4783.0	4727.1	4708.4	4735.1	4711.1	4671.1	4641.7	4612.4	4591.1
30°	4839.0	4777.7	4703.1	4639.1	4623.1	4633.7	4599.1	4537.8	4460.4	4423.1	4364.5
32.5°	4772.4	4692.4	4599.1	4527.1	4516.4	4508.4	4444.4	4356.5	4236.5	4161.8	4071.2
35°	4684.4	4596.4	4484.4	4396.5	4380.5	4335.1	4231.2	4113.8	3959.2	3831.2	3676.6
37.5°	4585.8	4481.8	4364.5	4247.2	4201.8	4111.2	3964.5	3841.9	3607.3	3452.6	3266.0
40°	4473.8	4348.5	4204.5	4063.2	3988.5	3841.9	3673.9	3492.6	3266.0	3058.1	2900.8
42.5°	4319.1	4185.8	4015.2	3857.9	3729.9	3535.3	3338.0	3082.1	2874.1	2698.1	2538.2
45°	4135.2	3975.2	3777.9	3588.6	3426.0	3194.0	2962.1	2706.1	2532.8	2327.5	2218.2
47.5°	3897.9	3724.6	3514.0	3303.3	3090.0	2834.1	2591.5	2346.2	2172.9	2026.3	1946.3
50°	3617.9	3458.0	3226.0	2975.4	2740.8	2474.2	2231.6	2047.6	1879.6	1789.0	1727.7
52.5°	3271.3	3122.0	2884.8	2612.8	2386.2	2124.9	1903.6	1754.3	1634.3	1567.7	1546.4
55°	2884.8	2754.1	2519.5	2266.2	2034.3	1794.3	1626.3	1495.7	1418.4	1378.4	1381.1
57.5°	2471.5	2370.2	2148.9	1922.3	1703.7	1522.4	1370.4	1266.4	1207.8	1205.1	1213.1
60°	2058.3	1983.6	1791.6	1597.0	1405.1	1258.4	1146.4	1074.5	1037.1	1039.8	1037.1
62.5°	1663.7	1594.3	1455.7	1295.7	1143.8	1045.1	943.8	914.5	882.5	879.8	879.8
65°	1309.1	1255.7	1143.8	1029.1	914.5	850.5	799.8	765.2	741.2	735.9	738.5
67.5°	983.8	962.5	885.2	807.8	735.9	695.9	653.2	645.2	626.5	626.5	631.9
70°	733.2	717.2	674.5	629.2	599.9	573.2	551.9	551.9	549.2	546.6	559.9
72.5°	530.6	533.2	519.9	485.2	482.6	477.2	471.9	479.9	482.6	490.6	506.6
75°	373.3	381.3	381.3	375.9	386.6	399.9	407.9	421.2	437.2	447.9	466.6
77.5°	263.9	263.9	277.3	293.3	314.6	338.6	359.9	378.6	399.9	413.3	429.2
80°	170.6	178.6	200.0	229.3	258.6	290.6	319.9	343.9	365.3	386.6	397.3
82.5°	101.3	114.6	141.3	178.6	216.0	255.9	285.3	314.6	338.6	359.9	367.9
85°	50.7	69.3	101.3	141.3	181.3	224.0	261.3	287.9	314.6	333.3	343.9
87.5°	16.0	37.3	72.0	109.3	152.0	194.6	234.6	263.9	287.9	303.9	314.6
90°	0.0	18.7	50.7	90.6	130.6	173.3	210.6	242.6	266.6	279.9	287.9
92.5°	0.0	10.7	40.0	74.7	112.0	154.6	192.0	221.3	242.6	255.9	261.3
95°	2.7	8.0	29.3	61.3	98.6	138.6	173.3	200.0	221.3	234.6	237.3
97.5°	2.7	5.3	24.0	50.7	85.3	122.6	157.3	184.0	200.0	213.3	216.0
100°	2.7	5.3	18.7	45.3	74.7	109.3	141.3	165.3	184.0	194.6	197.3
102.5°	2.7	2.7	16.0	37.3	66.7	96.0	125.3	149.3	165.3	176.0	181.3
105°	2.7	2.7	13.3	32.0	58.7	85.3	112.0	136.0	149.3	160.0	165.3
107.5°	2.7	2.7	10.7	26.7	50.7	74.7	101.3	120.0	136.0	146.6	152.0
110°	2.7	2.7	8.0	24.0	42.7	66.7	88.0	106.6	122.6	133.3	138.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.7	2.7	8.0	21.3	37.3	58.7	77.3	96.0	109.3	120.0	128.0
115°	2.7	2.7	8.0	18.7	34.7	50.7	69.3	85.3	98.6	109.3	117.3
117.5°	2.7	2.7	8.0	16.0	29.3	45.3	61.3	77.3	88.0	98.6	106.6
120°	2.7	2.7	5.3	13.3	26.7	40.0	53.3	66.7	80.0	90.6	98.6
122.5°	2.7	2.7	5.3	13.3	21.3	34.7	48.0	58.7	72.0	80.0	88.0
125°	2.7	2.7	5.3	10.7	18.7	32.0	42.7	53.3	61.3	72.0	80.0
127.5°	2.7	2.7	5.3	10.7	16.0	26.7	37.3	48.0	56.0	64.0	69.3
130°	2.7	2.7	5.3	8.0	13.3	21.3	32.0	40.0	50.7	56.0	61.3
132.5°	2.7	2.7	2.7	8.0	10.7	16.0	24.0	34.7	42.7	50.7	53.3
135°	2.7	2.7	2.7	5.3	10.7	13.3	18.7	26.7	34.7	42.7	48.0
137.5°	2.7	2.7	2.7	5.3	8.0	13.3	16.0	21.3	29.3	34.7	42.7
140°	2.7	2.7	2.7	5.3	8.0	10.7	13.3	18.7	24.0	29.3	34.7
142.5°	2.7	2.7	2.7	5.3	5.3	8.0	10.7	16.0	18.7	24.0	29.3
145°	2.7	2.7	2.7	5.3	5.3	8.0	10.7	13.3	16.0	18.7	24.0
147.5°	2.7	2.7	2.7	5.3	5.3	5.3	8.0	10.7	13.3	16.0	18.7
150°	5.3	5.3	5.3	5.3	5.3	5.3	8.0	8.0	10.7	13.3	16.0
152.5°	5.3	5.3	5.3	5.3	5.3	5.3	8.0	8.0	8.0	10.7	13.3
155°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	8.0	8.0	10.7	10.7
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°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5116.3	5121.6	5153.6	5151.0	5145.6	5140.3	5140.3	5135.0	5140.3	5153.6	5148.3
5°	5089.6	5097.6	5121.6	5119.0	5113.6	5111.0	5108.3	5100.3	5105.6	5124.3	5119.0
7.5°	5041.7	5049.7	5071.0	5060.3	5052.3	5057.7	5044.3	5036.3	5047.0	5065.7	5063.0
10°	4991.0	4996.3	5023.0	5017.7	5004.3	5007.0	4993.7	4988.3	5001.7	5012.3	5015.0
12.5°	4956.3	4975.0	4999.0	4996.3	4993.7	4996.3	4983.0	4977.7	4985.7	4996.3	4993.7
15°	4948.3	4972.3	4999.0	4999.0	5001.7	5004.3	4991.0	4983.0	4991.0	4999.0	4996.3
17.5°	4940.3	4969.7	4993.7	4991.0	4993.7	4999.0	4977.7	4972.3	4983.0	4993.7	4988.3
20°	4913.7	4940.3	4956.3	4951.0	4951.0	4953.7	4927.0	4927.0	4943.0	4951.0	4953.7
22.5°	4839.0	4871.0	4871.0	4857.7	4857.7	4847.0	4839.0	4823.0	4841.7	4855.0	4865.7
25°	4727.1	4740.4	4724.4	4695.1	4679.1	4665.7	4628.4	4660.4	4660.4	4700.4	4713.7
27.5°	4569.8	4540.4	4495.1	4433.8	4420.5	4377.8	4353.8	4361.8	4375.1	4431.1	4473.8
30°	4311.1	4223.2	4145.8	4119.2	4060.5	4017.9	3975.2	3996.5	4020.5	4052.5	4140.5
32.5°	3969.9	3884.6	3759.2	3713.9	3652.6	3599.3	3548.6	3580.6	3623.3	3644.6	3740.6
35°	3578.0	3476.6	3362.0	3284.7	3220.7	3191.4	3127.4	3172.7	3218.0	3234.0	3316.7
37.5°	3162.0	3058.1	2956.7	2890.1	2828.8	2810.1	2767.4	2799.4	2834.1	2858.1	2927.4
40°	2767.4	2671.5	2594.1	2548.8	2506.2	2490.2	2474.2	2487.5	2514.2	2532.8	2586.1
42.5°	2428.8	2351.5	2298.2	2271.5	2242.2	2220.9	2223.6	2228.9	2242.2	2282.2	2306.2
45°	2132.9	2087.6	2052.9	2047.6	2028.9	2026.3	2023.6	2034.3	2042.3	2066.3	2084.9
47.5°	1895.6	1877.0	1869.0	1879.6	1887.6	1877.0	1882.3	1895.6	1911.6	1911.6	1909.0
50°	1709.0	1714.3	1725.0	1749.0	1765.0	1770.3	1775.6	1791.6	1794.3	1799.6	1791.6
52.5°	1557.0	1562.4	1591.7	1629.0	1647.7	1655.7	1666.3	1682.3	1682.3	1687.7	1677.0
55°	1402.4	1410.4	1439.7	1477.0	1493.0	1503.7	1514.4	1525.0	1533.0	1543.7	1535.7
57.5°	1231.8	1255.7	1274.4	1285.1	1295.7	1303.7	1311.7	1314.4	1330.4	1333.1	1346.4
60°	1050.5	1055.8	1074.5	1071.8	1063.8	1085.1	1074.5	1093.1	1111.8	1135.8	1138.4
62.5°	877.2	879.8	893.2	887.8	898.5	895.8	903.8	903.8	917.2	927.8	941.1
65°	741.2	743.9	754.5	754.5	751.8	759.8	767.8	773.2	773.2	781.2	791.8
67.5°	639.9	647.9	658.5	663.9	669.2	669.2	677.2	679.9	685.2	687.9	693.2
70°	570.6	581.2	591.9	597.2	599.9	605.2	607.9	607.9	613.2	615.9	621.2
72.5°	519.9	530.6	538.6	538.6	543.9	546.6	546.6	549.2	551.9	557.2	562.6
75°	477.2	485.2	490.6	487.9	487.9	487.9	490.6	490.6	495.9	501.2	506.6
77.5°	437.2	445.2	445.2	439.9	439.9	439.9	439.9	442.6	445.2	450.6	455.9
80°	407.9	407.9	405.3	405.3	399.9	397.3	397.3	399.9	399.9	405.3	413.3
82.5°	375.9	375.9	373.3	370.6	367.9	365.3	365.3	367.9	370.6	373.3	378.6
85°	346.6	346.6	341.3	341.3	338.6	338.6	338.6	338.6	341.3	343.9	349.3
87.5°	317.3	314.6	311.9	309.3	309.3	309.3	309.3	309.3	311.9	317.3	319.9
90°	287.9	285.3	282.6	282.6	279.9	279.9	282.6	282.6	285.3	287.9	290.6
92.5°	261.3	258.6	255.9	255.9	253.3	253.3	255.9	253.3	258.6	258.6	261.3
95°	237.3	234.6	232.0	232.0	232.0	232.0	232.0	232.0	234.6	234.6	237.3
97.5°	216.0	213.3	210.6	210.6	213.3	210.6	213.3	213.3	213.3	216.0	218.6
100°	197.3	194.6	194.6	197.3	194.6	194.6	197.3	197.3	197.3	197.3	200.0
102.5°	181.3	181.3	181.3	181.3	181.3	181.3	184.0	184.0	184.0	184.0	186.6
105°	165.3	168.0	168.0	168.0	170.6	170.6	170.6	173.3	173.3	173.3	173.3
107.5°	154.6	157.3	157.3	160.0	160.0	162.6	162.6	162.6	162.6	165.3	165.3
110°	144.0	146.6	149.3	152.0	152.0	154.6	154.6	154.6	154.6	154.6	154.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	133.3	136.0	138.6	144.0	146.6	146.6	146.6	146.6	149.3	149.3	146.6
115°	122.6	128.0	130.6	136.0	138.6	138.6	141.3	141.3	141.3	141.3	138.6
117.5°	112.0	120.0	122.6	128.0	130.6	130.6	133.3	133.3	133.3	133.3	130.6
120°	104.0	109.3	114.6	117.3	120.0	122.6	122.6	125.3	125.3	125.3	122.6
122.5°	96.0	101.3	106.6	109.3	112.0	114.6	114.6	114.6	114.6	114.6	114.6
125°	85.3	90.6	96.0	98.6	101.3	104.0	104.0	106.6	106.6	106.6	104.0
127.5°	77.3	82.7	85.3	90.6	93.3	93.3	96.0	96.0	96.0	96.0	93.3
130°	66.7	72.0	77.3	80.0	82.7	82.7	85.3	85.3	85.3	85.3	85.3
132.5°	58.7	64.0	66.7	72.0	72.0	74.7	74.7	77.3	77.3	77.3	74.7
135°	53.3	56.0	58.7	64.0	64.0	66.7	66.7	66.7	66.7	66.7	66.7
137.5°	48.0	50.7	53.3	56.0	56.0	58.7	58.7	58.7	58.7	61.3	58.7
140°	40.0	45.3	48.0	48.0	50.7	50.7	50.7	53.3	53.3	53.3	50.7
142.5°	34.7	37.3	40.0	42.7	45.3	45.3	45.3	45.3	48.0	45.3	45.3
145°	26.7	32.0	34.7	37.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0
147.5°	21.3	24.0	29.3	32.0	32.0	34.7	34.7	34.7	34.7	34.7	34.7
150°	18.7	18.7	24.0	26.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3
152.5°	13.3	16.0	18.7	21.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0
155°	13.3	13.3	16.0	16.0	18.7	18.7	18.7	18.7	21.3	18.7	18.7
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5140.3	5137.6	5148.3	5137.6	5084.3	5105.6	5097.6	5127.0	5129.6	5137.6	5164.3
5°	5113.6	5113.6	5127.0	5116.3	5065.7	5087.0	5084.3	5113.6	5119.0	5124.3	5153.6
7.5°	5060.3	5063.0	5081.7	5073.7	5020.3	5052.3	5049.7	5084.3	5095.0	5105.6	5132.3
10°	5009.7	5007.0	5028.3	5020.3	4969.7	5007.0	5004.3	5039.0	5055.0	5073.7	5105.6
12.5°	4983.0	4975.0	4983.0	4975.0	4919.0	4948.3	4951.0	4991.0	5009.7	5033.7	5071.0
15°	4983.0	4969.7	4969.7	4953.7	4889.7	4908.4	4911.0	4937.7	4961.7	4985.7	5031.0
17.5°	4977.7	4964.3	4961.7	4948.3	4879.0	4879.0	4876.4	4895.0	4908.4	4932.3	4980.3
20°	4948.3	4943.0	4940.3	4932.3	4868.4	4857.7	4852.4	4852.4	4860.4	4868.4	4916.4
22.5°	4871.0	4876.4	4881.7	4887.0	4836.4	4817.7	4820.4	4815.0	4807.0	4807.0	4847.0
25°	4727.1	4753.7	4775.0	4799.0	4769.7	4756.4	4772.4	4764.4	4751.1	4740.4	4775.0
27.5°	4497.8	4553.8	4599.1	4657.7	4660.4	4649.7	4692.4	4687.1	4684.4	4668.4	4695.1
30°	4180.5	4268.5	4329.8	4415.1	4487.1	4497.8	4569.8	4580.4	4591.1	4583.1	4609.7
32.5°	3796.6	3916.6	4020.5	4153.8	4223.2	4284.5	4385.8	4428.4	4471.1	4484.4	4513.8
35°	3378.0	3514.0	3636.6	3783.2	3892.6	4025.9	4148.5	4212.5	4308.5	4345.8	4388.5
37.5°	2980.7	3108.7	3228.7	3375.3	3551.3	3689.9	3841.9	3985.9	4116.5	4169.8	4233.8
40°	2628.8	2732.8	2847.4	2975.4	3135.4	3316.7	3482.0	3681.9	3836.6	3943.2	4036.5
42.5°	2362.2	2412.9	2511.5	2626.1	2754.1	2938.1	3106.0	3330.0	3516.6	3668.6	3823.2
45°	2124.9	2148.9	2220.9	2282.2	2412.9	2575.5	2754.1	2972.7	3167.4	3362.0	3548.6
47.5°	1922.3	1951.6	1986.3	2023.6	2116.9	2252.9	2407.5	2604.8	2799.4	3026.1	3239.4
50°	1786.3	1794.3	1799.6	1815.6	1871.6	1964.9	2090.2	2258.2	2444.8	2687.5	2914.1
52.5°	1666.3	1666.3	1650.3	1642.3	1663.7	1722.3	1794.3	1914.3	2106.2	2330.2	2570.2
55°	1538.4	1514.4	1509.0	1482.4	1487.7	1514.4	1549.0	1642.3	1799.6	1991.6	2223.6
57.5°	1359.7	1349.1	1349.1	1338.4	1317.1	1330.4	1338.4	1405.1	1517.0	1682.3	1885.0
60°	1154.4	1149.1	1162.4	1165.1	1146.4	1154.4	1151.8	1191.8	1271.7	1405.1	1573.0
62.5°	949.1	973.1	975.8	986.5	975.8	973.1	986.5	1021.1	1061.1	1162.4	1293.1
65°	797.2	810.5	813.2	826.5	821.2	821.2	831.8	858.5	882.5	951.8	1053.1
67.5°	698.5	693.2	695.9	703.9	695.9	693.2	701.2	717.2	735.9	778.5	850.5
70°	621.2	615.9	615.9	615.9	605.2	597.2	599.9	605.2	613.2	637.2	682.5
72.5°	562.6	562.6	554.6	546.6	538.6	533.2	527.9	522.6	519.9	527.9	551.9
75°	509.2	511.9	509.2	501.2	490.6	479.9	469.2	458.6	445.2	439.9	442.6
77.5°	461.2	463.9	466.6	463.9	453.2	439.9	423.9	407.9	389.3	370.6	359.9
80°	418.6	423.9	426.6	423.9	415.9	405.3	386.6	367.9	341.3	317.3	290.6
82.5°	381.3	389.3	391.9	391.9	386.6	375.9	354.6	333.3	303.9	271.9	237.3
85°	351.9	357.3	362.6	362.6	359.9	349.3	327.9	303.9	274.6	237.3	200.0
87.5°	322.6	325.3	330.6	335.9	330.6	319.9	301.3	274.6	245.3	208.0	165.3
90°	293.3	295.9	301.3	306.6	303.9	293.3	277.3	253.3	221.3	181.3	138.6
92.5°	263.9	269.3	271.9	274.6	277.3	269.3	255.9	232.0	200.0	160.0	120.0
95°	242.6	242.6	248.0	250.6	253.3	245.3	234.6	210.6	181.3	144.0	104.0
97.5°	221.3	221.3	226.6	226.6	229.3	224.0	213.3	192.0	162.6	128.0	88.0
100°	200.0	202.6	205.3	208.0	208.0	205.3	194.6	173.3	146.6	114.6	77.3
102.5°	186.6	186.6	189.3	189.3	192.0	186.6	176.0	157.3	130.6	101.3	66.7
105°	173.3	173.3	176.0	176.0	173.3	168.0	157.3	141.3	117.3	88.0	58.7
107.5°	162.6	162.6	162.6	162.6	160.0	154.6	144.0	125.3	104.0	80.0	53.3
110°	154.6	152.0	152.0	149.3	146.6	138.6	128.0	112.0	93.3	69.3	45.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	146.6	144.0	141.3	138.6	133.3	125.3	114.6	101.3	82.7	61.3	40.0
115°	138.6	136.0	133.3	128.0	122.6	114.6	104.0	90.6	72.0	53.3	34.7
117.5°	130.6	128.0	122.6	117.3	112.0	104.0	93.3	80.0	64.0	48.0	32.0
120°	120.0	117.3	114.6	109.3	104.0	93.3	82.7	72.0	56.0	42.7	26.7
122.5°	112.0	109.3	104.0	101.3	93.3	85.3	74.7	64.0	50.7	37.3	24.0
125°	101.3	98.6	96.0	90.6	85.3	74.7	66.7	56.0	45.3	32.0	18.7
127.5°	93.3	90.6	85.3	80.0	74.7	66.7	58.7	50.7	40.0	26.7	18.7
130°	82.7	80.0	77.3	72.0	66.7	58.7	53.3	42.7	34.7	24.0	16.0
132.5°	72.0	72.0	69.3	64.0	58.7	53.3	45.3	37.3	29.3	21.3	13.3
135°	66.7	64.0	61.3	56.0	53.3	45.3	40.0	32.0	24.0	18.7	10.7
137.5°	58.7	56.0	53.3	50.7	45.3	40.0	34.7	26.7	21.3	16.0	10.7
140°	50.7	48.0	48.0	42.7	40.0	34.7	29.3	24.0	18.7	13.3	8.0
142.5°	45.3	42.7	40.0	37.3	34.7	29.3	24.0	18.7	16.0	10.7	8.0
145°	40.0	37.3	34.7	32.0	29.3	24.0	21.3	16.0	13.3	10.7	8.0
147.5°	32.0	32.0	29.3	26.7	24.0	21.3	18.7	16.0	10.7	8.0	5.3
150°	26.7	26.7	24.0	21.3	21.3	18.7	16.0	13.3	10.7	8.0	5.3
152.5°	24.0	21.3	21.3	18.7	18.7	16.0	13.3	10.7	8.0	8.0	5.3
155°	18.7	18.7	18.7	16.0	16.0	13.3	10.7	10.7	8.0	5.3	5.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5169.6	5137.6	5164.3	5212.3	5207.0	5201.6	5196.3	5207.0	5241.6	5223.0	5193.6
5°	5161.6	5129.6	5159.0	5204.3	5201.6	5193.6	5188.3	5199.0	5233.6	5215.0	5183.0
7.5°	5145.6	5116.3	5137.6	5183.0	5183.0	5177.6	5172.3	5183.0	5215.0	5199.0	5167.0
10°	5119.0	5097.6	5119.0	5161.6	5164.3	5153.6	5148.3	5161.6	5193.6	5185.6	5159.0
12.5°	5097.6	5076.3	5100.3	5143.0	5145.6	5135.0	5127.0	5143.0	5185.6	5191.0	5183.0
15°	5068.3	5049.7	5079.0	5124.3	5124.3	5116.3	5116.3	5137.6	5196.3	5220.3	5233.6
17.5°	5025.7	5012.3	5047.0	5092.3	5095.0	5089.6	5092.3	5135.0	5212.3	5270.9	5308.3
20°	4972.3	4967.0	5004.3	5052.3	5060.3	5063.0	5076.3	5140.3	5247.0	5326.9	5364.3
22.5°	4908.4	4911.0	4953.7	5004.3	5015.0	5023.0	5049.7	5140.3	5273.6	5358.9	5374.9
25°	4836.4	4844.4	4889.7	4951.0	4964.3	4980.3	5025.7	5143.0	5281.6	5337.6	5310.9
27.5°	4759.0	4775.0	4833.7	4897.7	4913.7	4940.3	4999.0	5127.0	5244.3	5247.0	5148.3
30°	4679.1	4697.7	4767.0	4841.7	4868.4	4895.0	4967.0	5089.6	5153.6	5068.3	4895.0
32.5°	4588.4	4615.1	4684.4	4775.0	4807.0	4841.7	4913.7	5017.7	4993.7	4809.7	4561.8
35°	4473.8	4511.1	4591.1	4697.7	4727.1	4772.4	4823.0	4847.0	4740.4	4479.1	4199.2
37.5°	4332.5	4388.5	4481.8	4604.4	4636.4	4665.7	4679.1	4612.4	4399.1	4116.5	3825.9
40°	4169.8	4255.1	4356.5	4492.4	4524.4	4524.4	4476.4	4335.1	4065.9	3695.3	3372.7
42.5°	3972.5	4076.5	4204.5	4340.5	4372.5	4335.1	4220.5	3972.5	3665.9	3252.7	2911.4
45°	3732.6	3871.2	4015.2	4156.5	4172.5	4089.8	3884.6	3570.0	3191.4	2807.4	2482.2
47.5°	3447.3	3628.6	3785.9	3945.9	3924.5	3785.9	3511.3	3154.0	2754.1	2391.5	2130.2
50°	3127.4	3340.7	3516.6	3668.6	3623.3	3431.3	3108.7	2735.5	2338.2	2028.9	1813.0
52.5°	2786.1	3031.4	3207.4	3330.0	3268.7	3039.4	2684.8	2327.5	2002.3	1719.7	1575.7
55°	2431.5	2679.5	2860.8	2956.7	2876.8	2628.8	2279.5	1954.3	1647.7	1463.7	1378.4
57.5°	2087.6	2319.5	2490.2	2567.5	2466.2	2218.2	1895.6	1621.0	1399.7	1245.1	1202.4
60°	1757.0	1946.3	2108.9	2167.6	2058.3	1829.0	1551.7	1333.1	1170.4	1063.8	1042.5
62.5°	1450.4	1605.0	1733.0	1778.3	1671.7	1493.0	1253.1	1090.4	975.8	922.5	895.8
65°	1197.1	1287.7	1418.4	1410.4	1346.4	1181.1	1005.1	890.5	815.8	781.2	765.2
67.5°	941.1	1023.8	1106.4	1117.1	1037.1	922.5	807.8	725.2	685.2	666.5	658.5
70°	727.9	789.2	839.8	826.5	783.8	711.9	639.9	594.5	578.6	570.6	570.6
72.5°	565.2	597.2	621.2	605.2	578.6	541.2	506.6	487.9	490.6	495.9	501.2
75°	437.2	445.2	450.6	434.6	429.2	405.3	402.6	405.3	421.2	437.2	445.2
77.5°	335.9	325.3	317.3	301.3	303.9	301.3	314.6	335.9	359.9	383.9	405.3
80°	258.6	234.6	216.0	200.0	208.0	221.3	248.0	279.9	311.9	338.6	365.3
82.5°	200.0	165.3	138.6	122.6	138.6	160.0	194.6	234.6	271.9	301.3	330.6
85°	154.6	114.6	82.7	66.7	82.7	114.6	152.0	197.3	237.3	269.3	298.6
87.5°	120.0	82.7	45.3	26.7	45.3	80.0	122.6	165.3	205.3	242.6	271.9
90°	96.0	56.0	21.3	5.3	24.0	56.0	96.0	138.6	178.6	218.6	248.0
92.5°	77.3	40.0	10.7	0.0	13.3	42.7	80.0	120.0	160.0	197.3	226.6
95°	64.0	32.0	8.0	0.0	10.7	32.0	64.0	104.0	141.3	178.6	202.6
97.5°	53.3	24.0	5.3	0.0	5.3	26.7	53.3	88.0	125.3	160.0	184.0
100°	45.3	21.3	5.3	0.0	5.3	21.3	45.3	77.3	109.3	141.3	165.3
102.5°	37.3	16.0	2.7	2.7	2.7	16.0	40.0	66.7	96.0	125.3	149.3
105°	34.7	13.3	2.7	2.7	2.7	13.3	34.7	58.7	85.3	112.0	133.3
107.5°	29.3	10.7	2.7	2.7	2.7	10.7	29.3	50.7	77.3	101.3	120.0
110°	24.0	10.7	2.7	2.7	2.7	10.7	24.0	45.3	66.7	88.0	106.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.3	8.0	2.7	2.7	2.7	8.0	21.3	40.0	58.7	80.0	96.0
115°	18.7	8.0	2.7	2.7	2.7	8.0	18.7	34.7	50.7	69.3	85.3
117.5°	16.0	8.0	2.7	2.7	2.7	5.3	16.0	29.3	45.3	61.3	77.3
120°	13.3	5.3	2.7	2.7	2.7	5.3	13.3	26.7	40.0	53.3	66.7
122.5°	13.3	5.3	2.7	2.7	2.7	5.3	10.7	21.3	34.7	45.3	58.7
125°	10.7	5.3	2.7	2.7	2.7	2.7	10.7	18.7	29.3	40.0	50.7
127.5°	10.7	5.3	2.7	2.7	2.7	2.7	8.0	16.0	24.0	34.7	45.3
130°	8.0	5.3	2.7	2.7	2.7	2.7	5.3	13.3	21.3	29.3	37.3
132.5°	8.0	5.3	2.7	2.7	2.7	2.7	5.3	10.7	16.0	24.0	32.0
135°	8.0	2.7	2.7	2.7	2.7	2.7	2.7	8.0	13.3	18.7	24.0
137.5°	5.3	2.7	2.7	2.7	2.7	2.7	2.7	5.3	10.7	13.3	21.3
140°	5.3	2.7	2.7	2.7	2.7	2.7	2.7	5.3	8.0	10.7	16.0
142.5°	5.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3	8.0	13.3
145°	5.3	2.7	2.7	5.3	5.3	2.7	2.7	5.3	5.3	8.0	10.7
147.5°	5.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	8.0
150°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	8.0
152.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
155°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5188.3	5127.0	5159.0	5148.3	5159.0	5185.6	5183.0	5175.0	5180.3	5167.0	5153.6
5°	5177.6	5116.3	5148.3	5135.0	5148.3	5175.0	5169.6	5161.6	5169.6	5153.6	5140.3
7.5°	5164.3	5108.3	5145.6	5143.0	5167.0	5201.6	5204.3	5204.3	5223.0	5199.0	5188.3
10°	5164.3	5135.0	5185.6	5204.3	5265.6	5310.9	5316.3	5326.9	5358.9	5353.6	5326.9
12.5°	5220.3	5215.0	5289.6	5334.9	5390.9	5454.9	5489.6	5500.2	5521.6	5505.6	5494.9
15°	5292.3	5318.9	5401.6	5452.2	5513.6	5561.6	5569.6	5574.9	5590.9	5566.9	5548.2
17.5°	5388.3	5404.3	5470.9	5492.2	5532.2	5540.2	5529.6	5502.9	5502.9	5449.6	5433.6
20°	5433.6	5425.6	5452.2	5417.6	5401.6	5353.6	5308.3	5257.6	5255.0	5199.0	5193.6
22.5°	5393.6	5340.3	5284.3	5199.0	5161.6	5092.3	5031.0	5001.7	4983.0	4911.0	4892.4
25°	5252.3	5121.6	5039.0	4937.7	4847.0	4767.0	4708.4	4647.1	4588.4	4529.8	4503.1
27.5°	5007.0	4884.4	4751.1	4609.7	4484.4	4361.8	4263.1	4201.8	4145.8	4068.5	4028.5
30°	4705.7	4535.1	4388.5	4252.5	4047.2	3897.9	3815.2	3692.6	3649.9	3615.3	3540.6
32.5°	4351.1	4145.8	3945.9	3761.9	3551.3	3412.7	3303.3	3212.7	3186.0	3095.4	3074.1
35°	3959.2	3689.9	3463.3	3282.0	3130.0	2962.1	2871.4	2810.1	2756.8	2695.5	2684.8
37.5°	3498.0	3255.3	2999.4	2839.4	2719.5	2575.5	2506.2	2463.5	2439.5	2394.2	2386.2
40°	3034.1	2791.4	2615.5	2455.5	2380.9	2303.5	2252.9	2234.2	2223.6	2207.6	2191.6
42.5°	2612.8	2399.5	2274.2	2167.6	2135.6	2098.2	2084.9	2095.6	2084.9	2079.6	2076.9
45°	2255.5	2092.9	2004.9	1972.9	1964.9	1954.3	1964.9	1983.6	1986.3	1980.9	1980.9
47.5°	1930.3	1853.0	1815.6	1821.0	1834.3	1842.3	1861.0	1885.0	1890.3	1877.0	1882.3
50°	1717.0	1671.7	1663.7	1685.0	1714.3	1725.0	1746.3	1765.0	1762.3	1757.0	1751.7
52.5°	1517.0	1503.7	1525.0	1546.4	1578.4	1583.7	1591.7	1599.7	1597.0	1586.3	1581.0
55°	1349.1	1359.7	1378.4	1386.4	1410.4	1407.7	1410.4	1410.4	1399.7	1394.4	1386.4
57.5°	1197.1	1199.8	1210.4	1213.1	1226.4	1221.1	1218.4	1213.1	1197.1	1194.4	1186.4
60°	1042.5	1037.1	1061.1	1042.5	1053.1	1042.5	1039.8	1026.5	1010.5	1007.8	1002.5
62.5°	895.8	885.2	901.2	893.2	898.5	887.8	882.5	866.5	853.2	850.5	847.8
65°	765.2	759.8	775.8	773.2	778.5	765.2	759.8	749.2	738.5	735.9	733.2
67.5°	655.9	669.2	677.2	677.2	682.5	679.9	666.5	663.9	661.2	650.5	650.5
70°	575.9	583.9	599.9	602.5	599.9	605.2	594.5	591.9	589.2	583.9	581.2
72.5°	511.9	522.6	538.6	541.2	538.6	538.6	533.2	530.6	530.6	522.6	522.6
75°	461.2	474.6	487.9	487.9	487.9	482.6	477.2	477.2	471.9	469.2	463.9
77.5°	418.6	434.6	445.2	442.6	439.9	434.6	434.6	426.6	418.6	418.6	413.3
80°	386.6	397.3	405.3	402.6	399.9	391.9	389.3	381.3	375.9	367.9	367.9
82.5°	351.9	365.3	370.6	367.9	362.6	354.6	351.9	346.6	341.3	338.6	333.3
85°	322.6	335.9	338.6	333.3	327.9	322.6	319.9	317.3	314.6	309.3	309.3
87.5°	293.3	306.6	306.6	303.9	298.6	295.9	293.3	290.6	287.9	285.3	282.6
90°	269.3	279.9	279.9	277.3	274.6	271.9	269.3	266.6	263.9	261.3	261.3
92.5°	245.3	255.9	255.9	253.3	250.6	248.0	248.0	245.3	242.6	240.0	237.3
95°	224.0	234.6	234.6	234.6	232.0	229.3	229.3	226.6	224.0	224.0	221.3
97.5°	202.6	213.3	213.3	213.3	210.6	208.0	208.0	205.3	205.3	205.3	202.6
100°	184.0	192.0	194.6	194.6	192.0	192.0	192.0	189.3	189.3	189.3	186.6
102.5°	165.3	173.3	178.6	178.6	178.6	176.0	176.0	176.0	176.0	176.0	173.3
105°	149.3	157.3	162.6	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.3
107.5°	136.0	144.0	149.3	152.0	154.6	154.6	157.3	157.3	157.3	157.3	157.3
110°	122.6	130.6	138.6	141.3	144.0	146.6	146.6	149.3	146.6	146.6	146.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.3	120.0	125.3	130.6	133.3	136.0	138.6	138.6	138.6	138.6	138.6
115°	98.6	109.3	114.6	120.0	125.3	128.0	128.0	130.6	130.6	130.6	128.0
117.5°	88.0	98.6	104.0	109.3	112.0	117.3	120.0	120.0	120.0	120.0	117.3
120°	80.0	88.0	93.3	98.6	104.0	106.6	109.3	109.3	109.3	109.3	109.3
122.5°	69.3	77.3	85.3	90.6	93.3	96.0	98.6	98.6	98.6	98.6	98.6
125°	61.3	69.3	74.7	80.0	82.7	88.0	88.0	88.0	88.0	88.0	88.0
127.5°	53.3	61.3	66.7	72.0	74.7	77.3	80.0	80.0	80.0	80.0	80.0
130°	45.3	53.3	58.7	64.0	66.7	69.3	69.3	72.0	72.0	72.0	72.0
132.5°	40.0	45.3	50.7	56.0	58.7	61.3	61.3	64.0	64.0	64.0	64.0
135°	32.0	40.0	42.7	48.0	50.7	53.3	53.3	56.0	56.0	56.0	56.0
137.5°	26.7	32.0	37.3	42.7	45.3	45.3	48.0	48.0	50.7	50.7	50.7
140°	21.3	24.0	32.0	34.7	37.3	40.0	42.7	42.7	42.7	42.7	42.7
142.5°	16.0	21.3	24.0	29.3	32.0	34.7	37.3	37.3	37.3	37.3	37.3
145°	13.3	16.0	18.7	24.0	26.7	29.3	32.0	32.0	32.0	32.0	32.0
147.5°	10.7	13.3	16.0	18.7	21.3	24.0	26.7	26.7	26.7	26.7	26.7
150°	8.0	10.7	13.3	13.3	16.0	18.7	21.3	24.0	24.0	24.0	24.0
152.5°	8.0	8.0	10.7	10.7	13.3	16.0	18.7	18.7	18.7	18.7	18.7
155°	5.3	8.0	8.0	8.0	10.7	10.7	13.3	16.0	16.0	16.0	16.0
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5161.6	5172.3	5167.0	5159.0	5156.3	5169.6	5156.3	5095.0	5119.0	5121.6	5140.3
5°	5153.6	5161.6	5156.3	5151.0	5143.0	5159.0	5143.0	5079.0	5103.0	5105.6	5124.3
7.5°	5207.0	5209.6	5209.6	5196.3	5175.0	5183.0	5161.6	5089.6	5103.0	5103.0	5116.3
10°	5340.3	5345.6	5353.6	5318.9	5292.3	5270.9	5241.6	5153.6	5151.0	5129.6	5129.6
12.5°	5513.6	5500.2	5486.9	5470.9	5449.6	5422.9	5380.3	5276.3	5241.6	5207.0	5172.3
15°	5564.2	5558.9	5556.2	5548.2	5534.9	5526.9	5494.9	5390.9	5340.3	5297.6	5236.3
17.5°	5430.9	5441.6	5476.2	5478.9	5494.9	5526.9	5521.6	5449.6	5404.3	5385.6	5310.9
20°	5191.0	5193.6	5236.3	5255.0	5324.3	5377.6	5417.6	5409.6	5398.9	5420.3	5364.3
22.5°	4903.0	4921.7	4967.0	4996.3	5063.0	5124.3	5188.3	5223.0	5278.9	5366.9	5356.3
25°	4511.1	4535.1	4599.1	4647.1	4740.4	4833.7	4919.0	4980.3	5047.0	5215.0	5270.9
27.5°	4041.9	4079.2	4161.8	4209.8	4340.5	4436.4	4559.1	4679.1	4772.4	4964.3	5079.0
30°	3548.6	3580.6	3668.6	3735.3	3847.2	3977.9	4132.5	4303.1	4457.8	4652.4	4796.4
32.5°	3087.4	3122.0	3194.0	3252.7	3378.0	3487.3	3657.9	3868.6	4012.5	4281.8	4473.8
35°	2684.8	2716.8	2767.4	2818.1	2922.1	3034.1	3180.7	3386.0	3570.0	3849.9	4092.5
37.5°	2402.2	2407.5	2436.8	2466.2	2543.5	2628.8	2743.5	2924.7	3095.4	3396.7	3663.3
40°	2199.6	2199.6	2215.6	2223.6	2258.2	2308.9	2380.9	2522.2	2663.5	2892.8	3218.0
42.5°	2074.3	2068.9	2068.9	2071.6	2068.9	2092.9	2135.6	2202.2	2327.5	2516.8	2770.1
45°	1980.9	1970.3	1962.3	1943.6	1932.9	1932.9	1935.6	1959.6	2031.6	2154.2	2359.5
47.5°	1877.0	1874.3	1861.0	1839.6	1821.0	1807.6	1786.3	1778.3	1799.6	1869.0	2007.6
50°	1757.0	1743.7	1730.3	1714.3	1693.0	1679.7	1639.7	1642.3	1623.7	1655.7	1727.7
52.5°	1581.0	1570.4	1565.0	1551.7	1543.7	1538.4	1506.4	1474.4	1466.4	1471.7	1498.4
55°	1386.4	1391.7	1370.4	1381.1	1378.4	1354.4	1341.1	1317.1	1309.1	1306.4	1319.7
57.5°	1183.8	1189.1	1175.8	1186.4	1186.4	1173.1	1165.1	1165.1	1146.4	1130.4	1149.1
60°	999.8	989.1	997.1	1010.5	1010.5	1002.5	997.1	997.1	983.8	978.5	991.8
62.5°	850.5	839.8	847.8	861.2	863.8	858.5	853.2	853.2	837.2	837.2	847.8
65°	735.9	738.5	735.9	746.5	746.5	749.2	743.9	738.5	719.9	727.9	725.2
67.5°	653.2	650.5	650.5	661.2	658.5	663.9	658.5	650.5	637.2	626.5	623.9
70°	583.9	581.2	581.2	586.5	589.2	589.2	586.5	581.2	562.6	551.9	543.9
72.5°	522.6	519.9	522.6	525.2	527.9	530.6	527.9	522.6	506.6	493.2	479.9
75°	466.6	463.9	471.9	471.9	474.6	474.6	477.2	474.6	461.2	445.2	429.2
77.5°	410.6	413.3	421.2	423.9	429.2	431.9	434.6	434.6	421.2	407.9	386.6
80°	365.3	370.6	375.9	378.6	383.9	391.9	394.6	397.3	386.6	373.3	349.3
82.5°	333.3	335.9	341.3	343.9	351.9	354.6	357.3	362.6	357.3	343.9	317.3
85°	306.6	309.3	314.6	314.6	319.9	325.3	327.9	330.6	327.9	314.6	287.9
87.5°	282.6	285.3	287.9	290.6	293.3	295.9	298.6	301.3	298.6	285.3	261.3
90°	261.3	261.3	263.9	263.9	266.6	269.3	274.6	274.6	271.9	261.3	237.3
92.5°	237.3	240.0	240.0	242.6	245.3	248.0	250.6	250.6	248.0	237.3	216.0
95°	221.3	221.3	224.0	224.0	226.6	226.6	229.3	229.3	226.6	216.0	194.6
97.5°	202.6	202.6	202.6	202.6	205.3	205.3	208.0	208.0	205.3	194.6	176.0
100°	186.6	186.6	186.6	186.6	186.6	189.3	189.3	189.3	186.6	176.0	157.3
102.5°	173.3	173.3	173.3	173.3	173.3	173.3	173.3	173.3	168.0	160.0	141.3
105°	165.3	165.3	165.3	162.6	162.6	162.6	160.0	160.0	152.0	144.0	128.0
107.5°	154.6	154.6	154.6	152.0	152.0	149.3	146.6	146.6	138.6	130.6	114.6
110°	146.6	146.6	146.6	144.0	141.3	138.6	136.0	133.3	125.3	114.6	101.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.6	138.6	136.0	136.0	133.3	130.6	125.3	122.6	114.6	104.0	90.6
115°	128.0	128.0	128.0	125.3	122.6	120.0	117.3	112.0	104.0	93.3	80.0
117.5°	117.3	117.3	117.3	114.6	112.0	109.3	106.6	101.3	93.3	82.7	72.0
120°	106.6	106.6	106.6	104.0	101.3	98.6	96.0	90.6	82.7	74.7	61.3
122.5°	98.6	98.6	96.0	93.3	90.6	88.0	85.3	80.0	74.7	64.0	53.3
125°	88.0	88.0	85.3	85.3	82.7	80.0	77.3	72.0	64.0	56.0	48.0
127.5°	80.0	77.3	77.3	77.3	74.7	72.0	66.7	64.0	56.0	48.0	40.0
130°	69.3	69.3	69.3	66.7	66.7	64.0	58.7	53.3	48.0	42.7	34.7
132.5°	61.3	61.3	61.3	61.3	58.7	56.0	50.7	48.0	42.7	34.7	29.3
135°	56.0	56.0	53.3	53.3	50.7	48.0	45.3	40.0	34.7	29.3	24.0
137.5°	48.0	48.0	48.0	45.3	45.3	42.7	37.3	34.7	32.0	26.7	21.3
140°	42.7	42.7	40.0	40.0	37.3	37.3	34.7	29.3	26.7	21.3	18.7
142.5°	37.3	37.3	34.7	34.7	32.0	32.0	29.3	26.7	21.3	18.7	13.3
145°	32.0	32.0	29.3	29.3	29.3	26.7	24.0	21.3	18.7	16.0	13.3
147.5°	26.7	26.7	26.7	24.0	24.0	21.3	21.3	18.7	16.0	13.3	10.7
150°	24.0	24.0	21.3	21.3	21.3	18.7	16.0	16.0	13.3	10.7	8.0
152.5°	18.7	18.7	18.7	18.7	16.0	16.0	13.3	13.3	10.7	8.0	8.0
155°	16.0	16.0	16.0	13.3	13.3	13.3	10.7	10.7	8.0	8.0	5.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5132.3	5129.6	5153.6	5151.0	5119.0	5167.0	5199.0
5°	5119.0	5116.3	5137.6	5143.0	5108.3	5159.0	5193.6
7.5°	5108.3	5105.6	5129.6	5137.6	5103.0	5148.3	5185.6
10°	5111.0	5097.6	5119.0	5124.3	5092.3	5140.3	5172.3
12.5°	5129.6	5097.6	5105.6	5105.6	5076.3	5119.0	5153.6
15°	5175.0	5108.3	5097.6	5089.6	5052.3	5092.3	5127.0
17.5°	5225.6	5135.0	5097.6	5071.0	5025.7	5060.3	5097.6
20°	5276.3	5164.3	5103.0	5060.3	4999.0	5031.0	5057.7
22.5°	5300.3	5191.0	5108.3	5044.3	4967.0	4983.0	5012.3
25°	5268.3	5180.3	5097.6	5020.3	4927.0	4929.7	4953.7
27.5°	5151.0	5127.0	5073.7	4996.3	4895.0	4881.7	4900.4
30°	4951.0	5017.7	5020.3	4964.3	4857.7	4831.0	4839.0
32.5°	4671.1	4820.4	4908.4	4897.7	4804.4	4767.0	4772.4
35°	4348.5	4535.1	4727.1	4791.0	4724.4	4695.1	4684.4
37.5°	3961.9	4212.5	4468.4	4625.7	4615.1	4596.4	4585.8
40°	3535.3	3836.6	4140.5	4391.1	4468.4	4468.4	4473.8
42.5°	3079.4	3431.3	3764.6	4081.9	4263.1	4303.1	4319.1
45°	2639.5	2994.1	3356.7	3721.9	3964.5	4089.8	4135.2
47.5°	2239.6	2596.8	2940.7	3340.7	3663.3	3825.9	3897.9
50°	1898.3	2164.9	2527.5	2924.7	3276.7	3476.6	3617.9
52.5°	1615.7	1823.6	2140.9	2511.5	2866.1	3140.7	3271.3
55°	1378.4	1519.7	1789.0	2108.9	2447.5	2732.8	2884.8
57.5°	1178.4	1290.4	1474.4	1741.0	2026.3	2308.9	2471.5
60°	1002.5	1079.8	1205.1	1415.7	1658.3	1901.0	2058.3
62.5°	850.5	901.2	983.8	1138.4	1327.7	1517.0	1663.7
65°	733.2	754.5	799.8	895.8	1039.8	1183.8	1309.1
67.5°	618.5	631.9	666.5	725.2	797.2	901.2	983.8
70°	533.2	533.2	535.9	570.6	607.9	674.5	733.2
72.5°	463.9	455.9	439.9	447.9	455.9	493.2	530.6
75°	407.9	389.3	362.6	351.9	346.6	351.9	373.3
77.5°	359.9	333.3	301.3	274.6	253.3	245.3	263.9
80°	319.9	287.9	250.6	216.0	181.3	162.6	170.6
82.5°	287.9	248.0	208.0	168.0	128.0	101.3	101.3
85°	253.3	216.0	173.3	130.6	90.6	56.0	50.7
87.5°	229.3	189.3	144.0	104.0	64.0	29.3	16.0
90°	205.3	165.3	122.6	82.7	45.3	13.3	0.0
92.5°	184.0	146.6	106.6	66.7	32.0	8.0	0.0
95°	165.3	130.6	90.6	56.0	26.7	5.3	2.7
97.5°	146.6	114.6	80.0	45.3	18.7	5.3	2.7
100°	133.3	101.3	69.3	37.3	16.0	2.7	2.7
102.5°	117.3	90.6	58.7	32.0	13.3	2.7	2.7
105°	104.0	80.0	50.7	26.7	10.7	2.7	2.7
107.5°	93.3	69.3	45.3	24.0	10.7	2.7	2.7
110°	82.7	61.3	40.0	21.3	8.0	2.7	2.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	74.7	53.3	34.7	18.7	5.3	2.7	2.7
115°	64.0	48.0	29.3	16.0	5.3	2.7	2.7
117.5°	56.0	40.0	26.7	13.3	5.3	2.7	2.7
120°	48.0	34.7	21.3	10.7	2.7	2.7	2.7
122.5°	42.7	29.3	18.7	10.7	2.7	2.7	2.7
125°	37.3	26.7	16.0	8.0	2.7	2.7	2.7
127.5°	32.0	21.3	13.3	5.3	2.7	2.7	2.7
130°	26.7	18.7	10.7	5.3	2.7	2.7	2.7
132.5°	21.3	16.0	10.7	5.3	2.7	2.7	2.7
135°	18.7	13.3	8.0	5.3	2.7	2.7	2.7
137.5°	16.0	10.7	5.3	5.3	5.3	2.7	2.7
140°	13.3	8.0	5.3	5.3	5.3	5.3	2.7
142.5°	10.7	8.0	5.3	5.3	5.3	5.3	2.7
145°	8.0	5.3	5.3	5.3	5.3	5.3	2.7
147.5°	8.0	5.3	5.3	5.3	5.3	5.3	2.7
150°	5.3	5.3	5.3	5.3	5.3	5.3	5.3
152.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3
155°	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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)