

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-L950-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-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

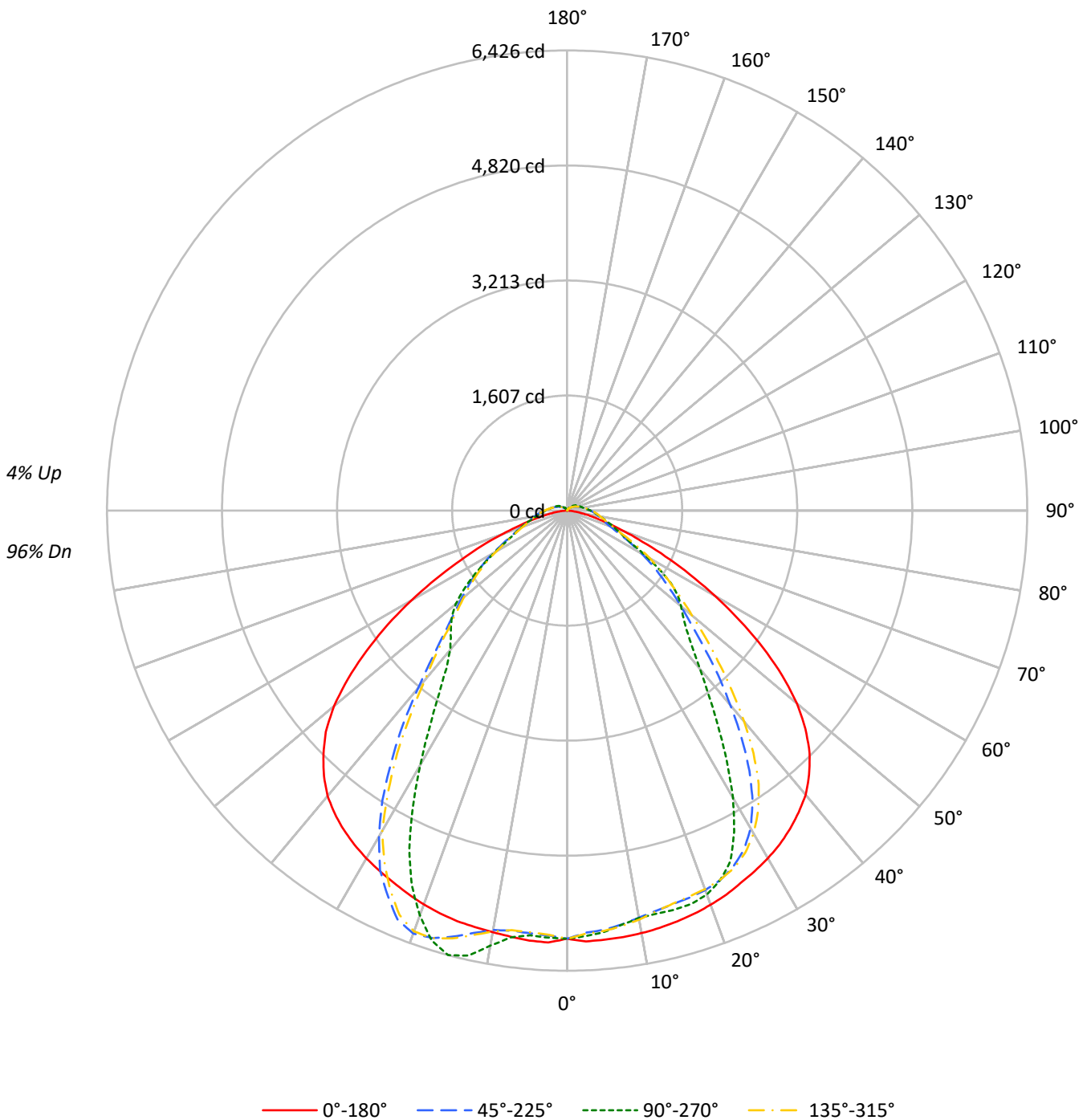
Lumens per Lamp: N/A
Luminaire Lumens: 14252.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

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°	24156	24156	24156	24156
5°	24365	23198	24415	23380
10°	24511	22233	24461	23742
15°	24736	21936	24723	24424
20°	25045	21588	25019	22756
25°	25394	20480	25380	19788
30°	25915	17750	25930	15725
35°	26472	14353	26548	12146
40°	26977	11556	27090	10181
45°	26947	9789	27086	9532
50°	25859	9012	26221	8811
55°	23023	8100	23598	7364
60°	18757	6200	19753	5686
65°	14026	4743	15111	4498
70°	9619	4095	10844	3915
75°	6377	3695	7424	3494
80°	4224	3445	4950	3169
85°	2309	3437	3037	3139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.9	4.0
10°-20°	1689.6	11.9
20°-30°	2568.7	18.0
30°-40°	2755.6	19.3
40°-50°	2391.6	16.8
50°-60°	1772.4	12.4
60°-70°	1015.5	7.1
70°-80°	562.4	3.9
80°-90°	342.4	2.4
90°-100°	222.7	1.6
100°-110°	149.1	1.0
110°-120°	100.7	0.7
120°-130°	61.8	0.4
130°-140°	32.5	0.2
140°-150°	14.8	0.1
150°-160°	4.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4826.2	33.9
0°-40°	7581.8	53.2
0°-60°	11745.7	82.4
0°-90°	13666.0	95.9
90°-120°	472.5	3.3
90°-150°	581.6	4.1
90°-180°	586.0	4.1
0°-180°	14252.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5978	5978	5978	5978	5978	
5°	6015	5907	6028	5954	6015	573
15°	5938	5772	5935	6426	5938	1680
25°	5738	5398	5734	5216	5738	2652
35°	5426	3675	5441	3110	5426	3396
45°	4790	2356	4814	2294	4790	3667
55°	3341	1766	3425	1606	3341	2963
65°	1516	896	1634	849	1516	1529
75°	432	568	503	537	432	494
85°	59	392	77	358	59	77
90°	0	327	6	303	0	3
95°	3	269	0	256	3	2
105°	3	201	3	192	3	3
115°	3	164	3	148	3	3
125°	3	124	3	102	3	3
135°	3	77	3	65	3	2
145°	3	46	6	37	3	2
155°	6	22	6	18	6	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-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	6021.6	6006.1	6000.0	5987.6	5996.9	6033.9	6009.2	5969.1	5972.2	5901.2	5938.2
5°	6015.4	5996.9	5987.6	5975.3	5981.4	6015.4	5990.7	5950.6	5947.5	5876.4	5910.4
7.5°	6006.1	5987.6	5972.2	5962.9	5966.0	5993.8	5962.9	5916.6	5907.3	5830.1	5861.0
10°	5990.7	5978.4	5956.7	5941.3	5938.2	5969.1	5919.7	5873.4	5851.7	5771.5	5802.3
12.5°	5969.1	5950.6	5928.9	5901.2	5898.1	5916.6	5876.4	5811.6	5790.0	5725.1	5759.1
15°	5938.2	5916.6	5891.9	5861.0	5845.6	5857.9	5808.5	5749.8	5746.8	5691.2	5737.5
17.5°	5904.2	5873.4	5845.6	5802.3	5780.7	5790.0	5749.8	5697.3	5703.5	5669.6	5722.0
20°	5857.9	5824.0	5780.7	5737.5	5706.6	5722.0	5694.3	5654.1	5663.4	5638.7	5685.0
22.5°	5805.4	5759.1	5706.6	5657.2	5632.5	5654.1	5632.5	5598.5	5601.6	5586.2	5614.0
25°	5737.5	5685.0	5623.2	5561.5	5549.1	5564.6	5552.2	5524.4	5512.1	5487.4	5499.7
27.5°	5675.7	5617.1	5539.9	5475.0	5453.4	5484.3	5456.5	5410.2	5376.2	5342.2	5317.5
30°	5604.7	5533.7	5447.2	5373.1	5354.6	5366.9	5326.8	5255.8	5166.2	5123.0	5055.0
32.5°	5527.5	5434.9	5326.8	5243.4	5231.1	5221.8	5147.7	5045.8	4906.8	4820.4	4715.4
35°	5425.6	5323.7	5194.0	5092.1	5073.6	5021.1	4900.6	4764.8	4585.7	4437.4	4258.3
37.5°	5311.3	5190.9	5055.0	4919.2	4866.7	4761.7	4591.8	4449.8	4178.1	3998.9	3782.8
40°	5181.7	5036.5	4869.8	4706.1	4619.6	4449.8	4255.3	4045.3	3782.8	3541.9	3359.7
42.5°	5002.5	4848.1	4650.5	4468.3	4320.1	4094.7	3866.2	3569.7	3328.9	3125.0	2939.8
45°	4789.5	4604.2	4375.7	4156.4	3968.1	3699.4	3430.8	3134.3	2933.6	2695.8	2569.2
47.5°	4514.6	4313.9	4070.0	3826.0	3579.0	3282.5	3001.5	2717.4	2516.7	2346.9	2254.2
50°	4190.4	4005.1	3736.5	3446.2	3174.5	2865.7	2584.6	2371.6	2177.0	2072.0	2001.0
52.5°	3789.0	3616.0	3341.2	3026.2	2763.8	2461.1	2204.8	2031.9	1892.9	1815.7	1791.0
55°	3341.2	3189.9	2918.2	2624.8	2356.1	2078.2	1883.7	1732.4	1642.8	1596.5	1599.6
57.5°	2862.6	2745.2	2488.9	2226.4	1973.2	1763.2	1587.2	1466.8	1398.9	1395.8	1405.0
60°	2383.9	2297.5	2075.1	1849.7	1627.4	1457.5	1327.8	1244.5	1201.2	1204.3	1201.2
62.5°	1926.9	1846.6	1686.0	1500.8	1324.7	1210.5	1093.1	1059.2	1022.1	1019.0	1019.0
65°	1516.2	1454.4	1324.7	1192.0	1059.2	985.1	926.4	886.3	858.5	852.3	855.4
67.5°	1139.5	1114.8	1025.2	935.7	852.3	806.0	756.6	747.3	725.7	725.7	731.9
70°	849.2	830.7	781.3	728.8	694.8	663.9	639.2	639.2	636.1	633.0	648.5
72.5°	614.5	617.6	602.2	562.0	558.9	552.8	546.6	555.8	558.9	568.2	586.7
75°	432.3	441.6	441.6	435.4	447.8	463.2	472.5	487.9	506.4	518.8	540.4
77.5°	305.7	305.7	321.2	339.7	364.4	392.2	416.9	438.5	463.2	478.6	497.2
80°	197.6	206.9	231.6	265.6	299.5	336.6	370.6	398.4	423.1	447.8	460.1
82.5°	117.3	132.8	163.7	206.9	250.1	296.4	330.4	364.4	392.2	416.9	426.1
85°	58.7	80.3	117.3	163.7	210.0	259.4	302.6	333.5	364.4	386.0	398.4
87.5°	18.5	43.2	83.4	126.6	176.0	225.4	271.7	305.7	333.5	352.0	364.4
90°	0.0	21.6	58.7	105.0	151.3	200.7	244.0	281.0	308.8	324.2	333.5
92.5°	0.0	12.4	46.3	86.5	129.7	179.1	222.3	256.3	281.0	296.4	302.6
95°	3.1	9.3	34.0	71.0	114.3	160.6	200.7	231.6	256.3	271.7	274.8
97.5°	3.1	6.2	27.8	58.7	98.8	142.0	182.2	213.1	231.6	247.0	250.1
100°	3.1	6.2	21.6	52.5	86.5	126.6	163.7	191.5	213.1	225.4	228.5
102.5°	3.1	3.1	18.5	43.2	77.2	111.2	145.1	172.9	191.5	203.8	210.0
105°	3.1	3.1	15.4	37.1	67.9	98.8	129.7	157.5	172.9	185.3	191.5
107.5°	3.1	3.1	12.4	30.9	58.7	86.5	117.3	139.0	157.5	169.8	176.0
110°	3.1	3.1	9.3	27.8	49.4	77.2	101.9	123.5	142.0	154.4	160.6



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CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.1	3.1	9.3	24.7	43.2	67.9	89.6	111.2	126.6	139.0	148.2
115°	3.1	3.1	9.3	21.6	40.1	58.7	80.3	98.8	114.3	126.6	135.9
117.5°	3.1	3.1	9.3	18.5	34.0	52.5	71.0	89.6	101.9	114.3	123.5
120°	3.1	3.1	6.2	15.4	30.9	46.3	61.8	77.2	92.6	105.0	114.3
122.5°	3.1	3.1	6.2	15.4	24.7	40.1	55.6	67.9	83.4	92.6	101.9
125°	3.1	3.1	6.2	12.4	21.6	37.1	49.4	61.8	71.0	83.4	92.6
127.5°	3.1	3.1	6.2	12.4	18.5	30.9	43.2	55.6	64.8	74.1	80.3
130°	3.1	3.1	6.2	9.3	15.4	24.7	37.1	46.3	58.7	64.8	71.0
132.5°	3.1	3.1	3.1	9.3	12.4	18.5	27.8	40.1	49.4	58.7	61.8
135°	3.1	3.1	3.1	6.2	12.4	15.4	21.6	30.9	40.1	49.4	55.6
137.5°	3.1	3.1	3.1	6.2	9.3	15.4	18.5	24.7	34.0	40.1	49.4
140°	3.1	3.1	3.1	6.2	9.3	12.4	15.4	21.6	27.8	34.0	40.1
142.5°	3.1	3.1	3.1	6.2	6.2	9.3	12.4	18.5	21.6	27.8	34.0
145°	3.1	3.1	3.1	6.2	6.2	9.3	12.4	15.4	18.5	21.6	27.8
147.5°	3.1	3.1	3.1	6.2	6.2	6.2	9.3	12.4	15.4	18.5	21.6
150°	6.2	6.2	6.2	6.2	6.2	6.2	9.3	9.3	12.4	15.4	18.5
152.5°	6.2	6.2	6.2	6.2	6.2	6.2	9.3	9.3	9.3	12.4	15.4
155°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	9.3	9.3	12.4	12.4
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	5925.9	5932.0	5969.1	5966.0	5959.8	5953.6	5953.6	5947.5	5953.6	5969.1	5962.9
5°	5895.0	5904.2	5932.0	5928.9	5922.8	5919.7	5916.6	5907.3	5913.5	5935.1	5928.9
7.5°	5839.4	5848.7	5873.4	5861.0	5851.7	5857.9	5842.5	5833.2	5845.6	5867.2	5864.1
10°	5780.7	5786.9	5817.8	5811.6	5796.2	5799.2	5783.8	5777.6	5793.1	5805.4	5808.5
12.5°	5740.6	5762.2	5790.0	5786.9	5783.8	5786.9	5771.5	5765.3	5774.5	5786.9	5783.8
15°	5731.3	5759.1	5790.0	5790.0	5793.1	5796.2	5780.7	5771.5	5780.7	5790.0	5786.9
17.5°	5722.0	5756.0	5783.8	5780.7	5783.8	5790.0	5765.3	5759.1	5771.5	5783.8	5777.6
20°	5691.2	5722.0	5740.6	5734.4	5734.4	5737.5	5706.6	5706.6	5725.1	5734.4	5737.5
22.5°	5604.7	5641.8	5641.8	5626.3	5626.3	5614.0	5604.7	5586.2	5607.8	5623.2	5635.6
25°	5475.0	5490.4	5471.9	5438.0	5419.4	5404.0	5360.8	5397.8	5397.8	5444.1	5459.6
27.5°	5292.8	5258.9	5206.4	5135.3	5119.9	5070.5	5042.7	5052.0	5067.4	5132.2	5181.7
30°	4993.3	4891.4	4801.8	4770.9	4703.0	4653.6	4604.2	4628.9	4656.7	4693.7	4795.7
32.5°	4598.0	4499.2	4354.1	4301.6	4230.5	4168.8	4110.1	4147.2	4196.6	4221.3	4332.5
35°	4144.1	4026.7	3894.0	3804.4	3730.3	3696.3	3622.2	3674.7	3727.2	3745.7	3841.5
37.5°	3662.4	3541.9	3424.6	3347.4	3276.4	3254.7	3205.3	3242.4	3282.5	3310.3	3390.6
40°	3205.3	3094.2	3004.6	2952.1	2902.7	2884.2	2865.7	2881.1	2912.0	2933.6	2995.4
42.5°	2813.2	2723.6	2661.8	2631.0	2597.0	2572.3	2575.4	2581.6	2597.0	2643.3	2671.1
45°	2470.4	2417.9	2377.8	2371.6	2350.0	2346.9	2343.8	2356.1	2365.4	2393.2	2414.8
47.5°	2195.6	2173.9	2164.7	2177.0	2186.3	2173.9	2180.1	2195.6	2214.1	2214.1	2211.0
50°	1979.4	1985.6	1997.9	2025.7	2044.3	2050.4	2056.6	2075.1	2078.2	2084.4	2075.1
52.5°	1803.4	1809.6	1843.5	1886.8	1908.4	1917.6	1930.0	1948.5	1948.5	1954.7	1942.3
55°	1624.3	1633.5	1667.5	1710.7	1729.3	1741.6	1754.0	1766.3	1775.6	1787.9	1778.7
57.5°	1426.7	1454.4	1476.1	1488.4	1500.8	1510.0	1519.3	1522.4	1540.9	1544.0	1559.4
60°	1216.7	1222.8	1244.5	1241.4	1232.1	1256.8	1244.5	1266.1	1287.7	1315.5	1318.6
62.5°	1015.9	1019.0	1034.5	1028.3	1040.7	1037.6	1046.8	1046.8	1062.3	1074.6	1090.1
65°	858.5	861.5	873.9	873.9	870.8	880.1	889.3	895.5	895.5	904.8	917.1
67.5°	741.1	750.4	762.7	768.9	775.1	775.1	784.3	787.4	793.6	796.7	802.9
70°	660.8	673.2	685.5	691.7	694.8	701.0	704.1	704.1	710.2	713.3	719.5
72.5°	602.2	614.5	623.8	623.8	630.0	633.0	633.0	636.1	639.2	645.4	651.6
75°	552.8	562.0	568.2	565.1	565.1	565.1	568.2	568.2	574.4	580.5	586.7
77.5°	506.4	515.7	515.7	509.5	509.5	509.5	509.5	512.6	515.7	521.9	528.0
80°	472.5	472.5	469.4	469.4	463.2	460.1	460.1	463.2	463.2	469.4	478.6
82.5°	435.4	435.4	432.3	429.2	426.1	423.1	423.1	426.1	429.2	432.3	438.5
85°	401.4	401.4	395.3	395.3	392.2	392.2	392.2	392.2	395.3	398.4	404.5
87.5°	367.5	364.4	361.3	358.2	358.2	358.2	358.2	358.2	361.3	367.5	370.6
90°	333.5	330.4	327.3	327.3	324.2	324.2	327.3	327.3	330.4	333.5	336.6
92.5°	302.6	299.5	296.4	296.4	293.4	293.4	296.4	293.4	299.5	299.5	302.6
95°	274.8	271.7	268.7	268.7	268.7	268.7	268.7	268.7	271.7	271.7	274.8
97.5°	250.1	247.0	244.0	244.0	247.0	244.0	247.0	247.0	247.0	250.1	253.2
100°	228.5	225.4	225.4	228.5	225.4	225.4	228.5	228.5	228.5	228.5	231.6
102.5°	210.0	210.0	210.0	210.0	210.0	210.0	213.1	213.1	213.1	213.1	216.2
105°	191.5	194.5	194.5	194.5	197.6	197.6	197.6	200.7	200.7	200.7	200.7
107.5°	179.1	182.2	182.2	185.3	185.3	188.4	188.4	188.4	188.4	191.5	191.5
110°	166.8	169.8	172.9	176.0	176.0	179.1	179.1	179.1	179.1	179.1	179.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	154.4	157.5	160.6	166.8	169.8	169.8	169.8	169.8	172.9	172.9	169.8
115°	142.0	148.2	151.3	157.5	160.6	160.6	163.7	163.7	163.7	163.7	160.6
117.5°	129.7	139.0	142.0	148.2	151.3	151.3	154.4	154.4	154.4	154.4	151.3
120°	120.4	126.6	132.8	135.9	139.0	142.0	142.0	145.1	145.1	145.1	142.0
122.5°	111.2	117.3	123.5	126.6	129.7	132.8	132.8	132.8	132.8	132.8	132.8
125°	98.8	105.0	111.2	114.3	117.3	120.4	120.4	123.5	123.5	123.5	120.4
127.5°	89.6	95.7	98.8	105.0	108.1	108.1	111.2	111.2	111.2	111.2	108.1
130°	77.2	83.4	89.6	92.6	95.7	95.7	98.8	98.8	98.8	98.8	98.8
132.5°	67.9	74.1	77.2	83.4	83.4	86.5	86.5	89.6	89.6	89.6	86.5
135°	61.8	64.8	67.9	74.1	74.1	77.2	77.2	77.2	77.2	77.2	77.2
137.5°	55.6	58.7	61.8	64.8	64.8	67.9	67.9	67.9	67.9	71.0	67.9
140°	46.3	52.5	55.6	55.6	58.7	58.7	58.7	61.8	61.8	61.8	58.7
142.5°	40.1	43.2	46.3	49.4	52.5	52.5	52.5	52.5	55.6	52.5	52.5
145°	30.9	37.1	40.1	43.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3
147.5°	24.7	27.8	34.0	37.1	37.1	40.1	40.1	40.1	40.1	40.1	40.1
150°	21.6	21.6	27.8	30.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0
152.5°	15.4	18.5	21.6	24.7	27.8	27.8	27.8	27.8	27.8	27.8	27.8
155°	15.4	15.4	18.5	18.5	21.6	21.6	21.6	21.6	24.7	21.6	21.6
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	5953.6	5950.6	5962.9	5950.6	5888.8	5913.5	5904.2	5938.2	5941.3	5950.6	5981.4
5°	5922.8	5922.8	5938.2	5925.9	5867.2	5891.9	5888.8	5922.8	5928.9	5935.1	5969.1
7.5°	5861.0	5864.1	5885.7	5876.4	5814.7	5851.7	5848.7	5888.8	5901.2	5913.5	5944.4
10°	5802.3	5799.2	5824.0	5814.7	5756.0	5799.2	5796.2	5836.3	5854.8	5876.4	5913.5
12.5°	5771.5	5762.2	5771.5	5762.2	5697.3	5731.3	5734.4	5780.7	5802.3	5830.1	5873.4
15°	5771.5	5756.0	5756.0	5737.5	5663.4	5685.0	5688.1	5719.0	5746.8	5774.5	5827.0
17.5°	5765.3	5749.8	5746.8	5731.3	5651.0	5651.0	5647.9	5669.6	5685.0	5712.8	5768.4
20°	5731.3	5725.1	5722.0	5712.8	5638.7	5626.3	5620.1	5620.1	5629.4	5638.7	5694.3
22.5°	5641.8	5647.9	5654.1	5660.3	5601.6	5580.0	5583.1	5576.9	5567.6	5567.6	5614.0
25°	5475.0	5505.9	5530.6	5558.4	5524.4	5509.0	5527.5	5518.2	5502.8	5490.4	5530.6
27.5°	5209.4	5274.3	5326.8	5394.7	5397.8	5385.5	5434.9	5428.7	5425.6	5407.1	5438.0
30°	4842.0	4943.9	5014.9	5113.7	5197.1	5209.4	5292.8	5305.2	5317.5	5308.3	5339.1
32.5°	4397.3	4536.3	4656.7	4811.1	4891.4	4962.4	5079.7	5129.2	5178.6	5194.0	5228.0
35°	3912.5	4070.0	4212.0	4381.9	4508.5	4662.9	4804.9	4879.0	4990.2	5033.4	5082.8
37.5°	3452.4	3600.6	3739.6	3909.4	4113.2	4273.8	4449.8	4616.5	4767.9	4829.6	4903.7
40°	3044.8	3165.2	3298.0	3446.2	3631.5	3841.5	4032.9	4264.5	4443.6	4567.1	4675.2
42.5°	2736.0	2794.6	2908.9	3041.7	3189.9	3403.0	3597.5	3856.9	4073.1	4249.1	4428.2
45°	2461.1	2488.9	2572.3	2643.3	2794.6	2983.0	3189.9	3443.1	3668.5	3894.0	4110.1
47.5°	2226.4	2260.4	2300.6	2343.8	2451.9	2609.4	2788.5	3017.0	3242.4	3504.9	3751.9
50°	2069.0	2078.2	2084.4	2102.9	2167.8	2275.9	2421.0	2615.5	2831.7	3112.7	3375.2
52.5°	1930.0	1930.0	1911.5	1902.2	1926.9	1994.8	2078.2	2217.2	2439.5	2698.9	2976.8
55°	1781.8	1754.0	1747.8	1716.9	1723.1	1754.0	1794.1	1902.2	2084.4	2306.7	2575.4
57.5°	1574.9	1562.5	1562.5	1550.2	1525.5	1540.9	1550.2	1627.4	1757.1	1948.5	2183.2
60°	1337.1	1330.9	1346.4	1349.5	1327.8	1337.1	1334.0	1380.3	1473.0	1627.4	1821.9
62.5°	1099.3	1127.1	1130.2	1142.6	1130.2	1127.1	1142.6	1182.7	1229.0	1346.4	1497.7
65°	923.3	938.7	941.8	957.3	951.1	951.1	963.5	994.3	1022.1	1102.4	1219.8
67.5°	809.1	802.9	806.0	815.2	806.0	802.9	812.1	830.7	852.3	901.7	985.1
70°	719.5	713.3	713.3	713.3	701.0	691.7	694.8	701.0	710.2	738.0	790.5
72.5°	651.6	651.6	642.3	633.0	623.8	617.6	611.4	605.2	602.2	611.4	639.2
75°	589.8	592.9	589.8	580.5	568.2	555.8	543.5	531.1	515.7	509.5	512.6
77.5°	534.2	537.3	540.4	537.3	525.0	509.5	491.0	472.5	450.8	429.2	416.9
80°	484.8	491.0	494.1	491.0	481.7	469.4	447.8	426.1	395.3	367.5	336.6
82.5°	441.6	450.8	453.9	453.9	447.8	435.4	410.7	386.0	352.0	315.0	274.8
85°	407.6	413.8	420.0	420.0	416.9	404.5	379.8	352.0	318.1	274.8	231.6
87.5°	373.6	376.7	382.9	389.1	382.9	370.6	348.9	318.1	284.1	240.9	191.5
90°	339.7	342.8	348.9	355.1	352.0	339.7	321.2	293.4	256.3	210.0	160.6
92.5°	305.7	311.9	315.0	318.1	321.2	311.9	296.4	268.7	231.6	185.3	139.0
95°	281.0	281.0	287.2	290.3	293.4	284.1	271.7	244.0	210.0	166.8	120.4
97.5°	256.3	256.3	262.5	262.5	265.6	259.4	247.0	222.3	188.4	148.2	101.9
100°	231.6	234.7	237.8	240.9	240.9	237.8	225.4	200.7	169.8	132.8	89.6
102.5°	216.2	216.2	219.2	219.2	222.3	216.2	203.8	182.2	151.3	117.3	77.2
105°	200.7	200.7	203.8	203.8	200.7	194.5	182.2	163.7	135.9	101.9	67.9
107.5°	188.4	188.4	188.4	188.4	185.3	179.1	166.8	145.1	120.4	92.6	61.8
110°	179.1	176.0	176.0	172.9	169.8	160.6	148.2	129.7	108.1	80.3	52.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.8	166.8	163.7	160.6	154.4	145.1	132.8	117.3	95.7	71.0	46.3
115°	160.6	157.5	154.4	148.2	142.0	132.8	120.4	105.0	83.4	61.8	40.1
117.5°	151.3	148.2	142.0	135.9	129.7	120.4	108.1	92.6	74.1	55.6	37.1
120°	139.0	135.9	132.8	126.6	120.4	108.1	95.7	83.4	64.8	49.4	30.9
122.5°	129.7	126.6	120.4	117.3	108.1	98.8	86.5	74.1	58.7	43.2	27.8
125°	117.3	114.3	111.2	105.0	98.8	86.5	77.2	64.8	52.5	37.1	21.6
127.5°	108.1	105.0	98.8	92.6	86.5	77.2	67.9	58.7	46.3	30.9	21.6
130°	95.7	92.6	89.6	83.4	77.2	67.9	61.8	49.4	40.1	27.8	18.5
132.5°	83.4	83.4	80.3	74.1	67.9	61.8	52.5	43.2	34.0	24.7	15.4
135°	77.2	74.1	71.0	64.8	61.8	52.5	46.3	37.1	27.8	21.6	12.4
137.5°	67.9	64.8	61.8	58.7	52.5	46.3	40.1	30.9	24.7	18.5	12.4
140°	58.7	55.6	55.6	49.4	46.3	40.1	34.0	27.8	21.6	15.4	9.3
142.5°	52.5	49.4	46.3	43.2	40.1	34.0	27.8	21.6	18.5	12.4	9.3
145°	46.3	43.2	40.1	37.1	34.0	27.8	24.7	18.5	15.4	12.4	9.3
147.5°	37.1	37.1	34.0	30.9	27.8	24.7	21.6	18.5	12.4	9.3	6.2
150°	30.9	30.9	27.8	24.7	24.7	21.6	18.5	15.4	12.4	9.3	6.2
152.5°	27.8	24.7	24.7	21.6	21.6	18.5	15.4	12.4	9.3	9.3	6.2
155°	21.6	21.6	21.6	18.5	18.5	15.4	12.4	12.4	9.3	6.2	6.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	5987.6	5950.6	5981.4	6037.0	6030.8	6024.7	6018.5	6030.8	6071.0	6049.4	6015.4
5°	5978.4	5941.3	5975.3	6027.8	6024.7	6015.4	6009.2	6021.6	6061.7	6040.1	6003.1
7.5°	5959.8	5925.9	5950.6	6003.1	6003.1	5996.9	5990.7	6003.1	6040.1	6021.6	5984.5
10°	5928.9	5904.2	5928.9	5978.4	5981.4	5969.1	5962.9	5978.4	6015.4	6006.1	5975.3
12.5°	5904.2	5879.5	5907.3	5956.7	5959.8	5947.5	5938.2	5956.7	6006.1	6012.3	6003.1
15°	5870.3	5848.7	5882.6	5935.1	5935.1	5925.9	5925.9	5950.6	6018.5	6046.3	6061.7
17.5°	5820.9	5805.4	5845.6	5898.1	5901.2	5895.0	5898.1	5947.5	6037.0	6105.0	6148.2
20°	5759.1	5752.9	5796.2	5851.7	5861.0	5864.1	5879.5	5953.6	6077.2	6169.8	6213.0
22.5°	5685.0	5688.1	5737.5	5796.2	5808.5	5817.8	5848.7	5953.6	6108.0	6206.9	6225.4
25°	5601.6	5610.9	5663.4	5734.4	5749.8	5768.4	5820.9	5956.7	6117.3	6182.2	6151.3
27.5°	5512.1	5530.6	5598.5	5672.6	5691.2	5722.0	5790.0	5938.2	6074.1	6077.2	5962.9
30°	5419.4	5441.0	5521.3	5607.8	5638.7	5669.6	5752.9	5895.0	5969.1	5870.3	5669.6
32.5°	5314.4	5345.3	5425.6	5530.6	5567.6	5607.8	5691.2	5811.6	5783.8	5570.7	5283.6
35°	5181.7	5224.9	5317.5	5441.0	5475.0	5527.5	5586.2	5614.0	5490.4	5187.8	4863.6
37.5°	5018.0	5082.8	5190.9	5333.0	5370.0	5404.0	5419.4	5342.2	5095.2	4767.9	4431.3
40°	4829.6	4928.4	5045.8	5203.3	5240.3	5240.3	5184.7	5021.1	4709.2	4280.0	3906.3
42.5°	4601.1	4721.5	4869.8	5027.3	5064.3	5021.1	4888.3	4601.1	4246.0	3767.4	3372.1
45°	4323.2	4483.8	4650.5	4814.2	4832.7	4737.0	4499.2	4134.8	3696.3	3251.7	2874.9
47.5°	3992.8	4202.8	4384.9	4570.2	4545.5	4384.9	4066.9	3653.1	3189.9	2769.9	2467.3
50°	3622.2	3869.3	4073.1	4249.1	4196.6	3974.2	3600.6	3168.3	2708.2	2350.0	2099.8
52.5°	3227.0	3511.0	3714.9	3856.9	3785.9	3520.3	3109.6	2695.8	2319.1	1991.8	1825.0
55°	2816.2	3103.4	3313.4	3424.6	3331.9	3044.8	2640.2	2263.5	1908.4	1695.3	1596.5
57.5°	2417.9	2686.6	2884.2	2973.7	2856.4	2569.2	2195.6	1877.5	1621.2	1442.1	1392.7
60°	2035.0	2254.2	2442.6	2510.5	2383.9	2118.4	1797.2	1544.0	1355.6	1232.1	1207.4
62.5°	1679.9	1859.0	2007.2	2059.7	1936.2	1729.3	1451.4	1263.0	1130.2	1068.4	1037.6
65°	1386.5	1491.5	1642.8	1633.5	1559.4	1368.0	1164.2	1031.4	944.9	904.8	886.3
67.5°	1090.1	1185.8	1281.5	1293.9	1201.2	1068.4	935.7	839.9	793.6	772.0	762.7
70°	843.0	914.0	972.7	957.3	907.9	824.5	741.1	688.6	670.1	660.8	660.8
72.5°	654.7	691.7	719.5	701.0	670.1	626.9	586.7	565.1	568.2	574.4	580.5
75°	506.4	515.7	521.9	503.3	497.2	469.4	466.3	469.4	487.9	506.4	515.7
77.5°	389.1	376.7	367.5	348.9	352.0	348.9	364.4	389.1	416.9	444.7	469.4
80°	299.5	271.7	250.1	231.6	240.9	256.3	287.2	324.2	361.3	392.2	423.1
82.5°	231.6	191.5	160.6	142.0	160.6	185.3	225.4	271.7	315.0	348.9	382.9
85°	179.1	132.8	95.7	77.2	95.7	132.8	176.0	228.5	274.8	311.9	345.9
87.5°	139.0	95.7	52.5	30.9	52.5	92.6	142.0	191.5	237.8	281.0	315.0
90°	111.2	64.8	24.7	6.2	27.8	64.8	111.2	160.6	206.9	253.2	287.2
92.5°	89.6	46.3	12.4	0.0	15.4	49.4	92.6	139.0	185.3	228.5	262.5
95°	74.1	37.1	9.3	0.0	12.4	37.1	74.1	120.4	163.7	206.9	234.7
97.5°	61.8	27.8	6.2	0.0	6.2	30.9	61.8	101.9	145.1	185.3	213.1
100°	52.5	24.7	6.2	0.0	6.2	24.7	52.5	89.6	126.6	163.7	191.5
102.5°	43.2	18.5	3.1	3.1	3.1	18.5	46.3	77.2	111.2	145.1	172.9
105°	40.1	15.4	3.1	3.1	3.1	15.4	40.1	67.9	98.8	129.7	154.4
107.5°	34.0	12.4	3.1	3.1	3.1	12.4	34.0	58.7	89.6	117.3	139.0
110°	27.8	12.4	3.1	3.1	3.1	12.4	27.8	52.5	77.2	101.9	123.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	24.7	9.3	3.1	3.1	3.1	9.3	24.7	46.3	67.9	92.6	111.2
115°	21.6	9.3	3.1	3.1	3.1	9.3	21.6	40.1	58.7	80.3	98.8
117.5°	18.5	9.3	3.1	3.1	3.1	6.2	18.5	34.0	52.5	71.0	89.6
120°	15.4	6.2	3.1	3.1	3.1	6.2	15.4	30.9	46.3	61.8	77.2
122.5°	15.4	6.2	3.1	3.1	3.1	6.2	12.4	24.7	40.1	52.5	67.9
125°	12.4	6.2	3.1	3.1	3.1	3.1	12.4	21.6	34.0	46.3	58.7
127.5°	12.4	6.2	3.1	3.1	3.1	3.1	9.3	18.5	27.8	40.1	52.5
130°	9.3	6.2	3.1	3.1	3.1	3.1	6.2	15.4	24.7	34.0	43.2
132.5°	9.3	6.2	3.1	3.1	3.1	3.1	6.2	12.4	18.5	27.8	37.1
135°	9.3	3.1	3.1	3.1	3.1	3.1	3.1	9.3	15.4	21.6	27.8
137.5°	6.2	3.1	3.1	3.1	3.1	3.1	3.1	6.2	12.4	15.4	24.7
140°	6.2	3.1	3.1	3.1	3.1	3.1	3.1	6.2	9.3	12.4	18.5
142.5°	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	9.3	15.4
145°	6.2	3.1	3.1	6.2	6.2	3.1	3.1	6.2	6.2	9.3	12.4
147.5°	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2	9.3
150°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	9.3
152.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
155°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	6009.2	5938.2	5975.3	5962.9	5975.3	6006.1	6003.1	5993.8	6000.0	5984.5	5969.1
5°	5996.9	5925.9	5962.9	5947.5	5962.9	5993.8	5987.6	5978.4	5987.6	5969.1	5953.6
7.5°	5981.4	5916.6	5959.8	5956.7	5984.5	6024.7	6027.8	6027.8	6049.4	6021.6	6009.2
10°	5981.4	5947.5	6006.1	6027.8	6098.8	6151.3	6157.5	6169.8	6206.9	6200.7	6169.8
12.5°	6046.3	6040.1	6126.6	6179.1	6243.9	6318.0	6358.2	6370.5	6395.2	6376.7	6364.4
15°	6129.7	6160.5	6256.3	6314.9	6386.0	6441.6	6450.8	6457.0	6475.5	6447.7	6426.1
17.5°	6240.8	6259.4	6336.6	6361.3	6407.6	6416.8	6404.5	6373.6	6373.6	6311.9	6293.3
20°	6293.3	6284.1	6314.9	6274.8	6256.3	6200.7	6148.2	6089.5	6086.4	6021.6	6015.4
22.5°	6247.0	6185.2	6120.4	6021.6	5978.4	5898.1	5827.0	5793.1	5771.5	5688.1	5666.5
25°	6083.3	5932.0	5836.3	5719.0	5614.0	5521.3	5453.4	5382.4	5314.4	5246.5	5215.6
27.5°	5799.2	5657.2	5502.8	5339.1	5194.0	5052.0	4937.7	4866.7	4801.8	4712.3	4666.0
30°	5450.3	5252.7	5082.8	4925.3	4687.6	4514.6	4418.9	4276.9	4227.5	4187.3	4100.9
32.5°	5039.6	4801.8	4570.2	4357.2	4113.2	3952.6	3826.0	3721.0	3690.2	3585.2	3560.5
35°	4585.7	4273.8	4011.3	3801.3	3625.3	3430.8	3325.8	3254.7	3193.0	3122.0	3109.6
37.5°	4051.4	3770.4	3474.0	3288.7	3149.8	2983.0	2902.7	2853.3	2825.5	2773.0	2763.8
40°	3514.1	3233.1	3029.3	2844.0	2757.6	2668.0	2609.4	2587.7	2575.4	2556.9	2538.3
42.5°	3026.2	2779.2	2634.1	2510.5	2473.5	2430.2	2414.8	2427.2	2414.8	2408.6	2405.5
45°	2612.4	2424.1	2322.2	2285.1	2275.9	2263.5	2275.9	2297.5	2300.6	2294.4	2294.4
47.5°	2235.7	2146.2	2102.9	2109.1	2124.5	2133.8	2155.4	2183.2	2189.4	2173.9	2180.1
50°	1988.7	1936.2	1926.9	1951.6	1985.6	1997.9	2022.6	2044.3	2041.2	2035.0	2028.8
52.5°	1757.1	1741.6	1766.3	1791.0	1828.1	1834.3	1843.5	1852.8	1849.7	1837.4	1831.2
55°	1562.5	1574.9	1596.5	1605.8	1633.5	1630.5	1633.5	1633.5	1621.2	1615.0	1605.8
57.5°	1386.5	1389.6	1401.9	1405.0	1420.5	1414.3	1411.2	1405.0	1386.5	1383.4	1374.2
60°	1207.4	1201.2	1229.0	1207.4	1219.8	1207.4	1204.3	1188.9	1170.3	1167.3	1161.1
62.5°	1037.6	1025.2	1043.7	1034.5	1040.7	1028.3	1022.1	1003.6	988.2	985.1	982.0
65°	886.3	880.1	898.6	895.5	901.7	886.3	880.1	867.7	855.4	852.3	849.2
67.5°	759.6	775.1	784.3	784.3	790.5	787.4	772.0	768.9	765.8	753.5	753.5
70°	667.0	676.3	694.8	697.9	694.8	701.0	688.6	685.5	682.4	676.3	673.2
72.5°	592.9	605.2	623.8	626.9	623.8	623.8	617.6	614.5	614.5	605.2	605.2
75°	534.2	549.7	565.1	565.1	565.1	558.9	552.8	552.8	546.6	543.5	537.3
77.5°	484.8	503.3	515.7	512.6	509.5	503.3	503.3	494.1	484.8	484.8	478.6
80°	447.8	460.1	469.4	466.3	463.2	453.9	450.8	441.6	435.4	426.1	426.1
82.5°	407.6	423.1	429.2	426.1	420.0	410.7	407.6	401.4	395.3	392.2	386.0
85°	373.6	389.1	392.2	386.0	379.8	373.6	370.6	367.5	364.4	358.2	358.2
87.5°	339.7	355.1	355.1	352.0	345.9	342.8	339.7	336.6	333.5	330.4	327.3
90°	311.9	324.2	324.2	321.2	318.1	315.0	311.9	308.8	305.7	302.6	302.6
92.5°	284.1	296.4	296.4	293.4	290.3	287.2	287.2	284.1	281.0	277.9	274.8
95°	259.4	271.7	271.7	271.7	268.7	265.6	265.6	262.5	259.4	259.4	256.3
97.5°	234.7	247.0	247.0	247.0	244.0	240.9	240.9	237.8	237.8	237.8	234.7
100°	213.1	222.3	225.4	225.4	222.3	222.3	222.3	219.2	219.2	219.2	216.2
102.5°	191.5	200.7	206.9	206.9	206.9	203.8	203.8	203.8	203.8	203.8	200.7
105°	172.9	182.2	188.4	191.5	191.5	191.5	191.5	191.5	191.5	191.5	191.5
107.5°	157.5	166.8	172.9	176.0	179.1	179.1	182.2	182.2	182.2	182.2	182.2
110°	142.0	151.3	160.6	163.7	166.8	169.8	169.8	172.9	169.8	169.8	169.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	126.6	139.0	145.1	151.3	154.4	157.5	160.6	160.6	160.6	160.6	160.6
115°	114.3	126.6	132.8	139.0	145.1	148.2	148.2	151.3	151.3	151.3	148.2
117.5°	101.9	114.3	120.4	126.6	129.7	135.9	139.0	139.0	139.0	139.0	135.9
120°	92.6	101.9	108.1	114.3	120.4	123.5	126.6	126.6	126.6	126.6	126.6
122.5°	80.3	89.6	98.8	105.0	108.1	111.2	114.3	114.3	114.3	114.3	114.3
125°	71.0	80.3	86.5	92.6	95.7	101.9	101.9	101.9	101.9	101.9	101.9
127.5°	61.8	71.0	77.2	83.4	86.5	89.6	92.6	92.6	92.6	92.6	92.6
130°	52.5	61.8	67.9	74.1	77.2	80.3	80.3	83.4	83.4	83.4	83.4
132.5°	46.3	52.5	58.7	64.8	67.9	71.0	71.0	74.1	74.1	74.1	74.1
135°	37.1	46.3	49.4	55.6	58.7	61.8	61.8	64.8	64.8	64.8	64.8
137.5°	30.9	37.1	43.2	49.4	52.5	52.5	55.6	55.6	58.7	58.7	58.7
140°	24.7	27.8	37.1	40.1	43.2	46.3	49.4	49.4	49.4	49.4	49.4
142.5°	18.5	24.7	27.8	34.0	37.1	40.1	43.2	43.2	43.2	43.2	43.2
145°	15.4	18.5	21.6	27.8	30.9	34.0	37.1	37.1	37.1	37.1	37.1
147.5°	12.4	15.4	18.5	21.6	24.7	27.8	30.9	30.9	30.9	30.9	30.9
150°	9.3	12.4	15.4	15.4	18.5	21.6	24.7	27.8	27.8	27.8	27.8
152.5°	9.3	9.3	12.4	12.4	15.4	18.5	21.6	21.6	21.6	21.6	21.6
155°	6.2	9.3	9.3	9.3	12.4	12.4	15.4	18.5	18.5	18.5	18.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	5978.4	5990.7	5984.5	5975.3	5972.2	5987.6	5972.2	5901.2	5928.9	5932.0	5953.6
5°	5969.1	5978.4	5972.2	5966.0	5956.7	5975.3	5956.7	5882.6	5910.4	5913.5	5935.1
7.5°	6030.8	6033.9	6033.9	6018.5	5993.8	6003.1	5978.4	5895.0	5910.4	5910.4	5925.9
10°	6185.2	6191.4	6200.7	6160.5	6129.7	6105.0	6071.0	5969.1	5966.0	5941.3	5941.3
12.5°	6386.0	6370.5	6355.1	6336.6	6311.9	6281.0	6231.6	6111.1	6071.0	6030.8	5990.7
15°	6444.6	6438.5	6435.4	6426.1	6410.7	6401.4	6364.4	6243.9	6185.2	6135.8	6064.8
17.5°	6290.2	6302.6	6342.7	6345.8	6364.4	6401.4	6395.2	6311.9	6259.4	6237.7	6151.3
20°	6012.3	6015.4	6064.8	6086.4	6166.7	6228.5	6274.8	6265.5	6253.2	6277.9	6213.0
22.5°	5678.8	5700.4	5752.9	5786.9	5864.1	5935.1	6009.2	6049.4	6114.2	6216.1	6203.8
25°	5224.9	5252.7	5326.8	5382.4	5490.4	5598.5	5697.3	5768.4	5845.6	6040.1	6105.0
27.5°	4681.4	4724.6	4820.4	4875.9	5027.3	5138.4	5280.5	5419.4	5527.5	5749.8	5882.6
30°	4110.1	4147.2	4249.1	4326.3	4456.0	4607.3	4786.4	4984.0	5163.1	5388.5	5555.3
32.5°	3575.9	3616.0	3699.4	3767.4	3912.5	4039.1	4236.7	4480.7	4647.4	4959.3	5181.7
35°	3109.6	3146.7	3205.3	3264.0	3384.4	3514.1	3684.0	3921.7	4134.8	4459.1	4740.1
37.5°	2782.3	2788.5	2822.4	2856.4	2945.9	3044.8	3177.5	3387.5	3585.2	3934.1	4242.9
40°	2547.6	2547.6	2566.1	2575.4	2615.5	2674.2	2757.6	2921.2	3084.9	3350.5	3727.2
42.5°	2402.5	2396.3	2396.3	2399.4	2396.3	2424.1	2473.5	2550.7	2695.8	2915.1	3208.4
45°	2294.4	2282.0	2272.8	2251.1	2238.8	2238.8	2241.9	2269.7	2353.0	2495.1	2732.9
47.5°	2173.9	2170.9	2155.4	2130.7	2109.1	2093.7	2069.0	2059.7	2084.4	2164.7	2325.3
50°	2035.0	2019.5	2004.1	1985.6	1960.9	1945.4	1899.1	1902.2	1880.6	1917.6	2001.0
52.5°	1831.2	1818.8	1812.7	1797.2	1787.9	1781.8	1744.7	1707.7	1698.4	1704.6	1735.5
55°	1605.8	1611.9	1587.2	1599.6	1596.5	1568.7	1553.3	1525.5	1516.2	1513.1	1528.6
57.5°	1371.1	1377.2	1361.8	1374.2	1374.2	1358.7	1349.5	1349.5	1327.8	1309.3	1330.9
60°	1158.0	1145.6	1154.9	1170.3	1170.3	1161.1	1154.9	1154.9	1139.5	1133.3	1148.7
62.5°	985.1	972.7	982.0	997.4	1000.5	994.3	988.2	988.2	969.6	969.6	982.0
65°	852.3	855.4	852.3	864.6	864.6	867.7	861.5	855.4	833.8	843.0	839.9
67.5°	756.6	753.5	753.5	765.8	762.7	768.9	762.7	753.5	738.0	725.7	722.6
70°	676.3	673.2	673.2	679.4	682.4	682.4	679.4	673.2	651.6	639.2	630.0
72.5°	605.2	602.2	605.2	608.3	611.4	614.5	611.4	605.2	586.7	571.3	555.8
75°	540.4	537.3	546.6	546.6	549.7	549.7	552.8	549.7	534.2	515.7	497.2
77.5°	475.6	478.6	487.9	491.0	497.2	500.3	503.3	503.3	487.9	472.5	447.8
80°	423.1	429.2	435.4	438.5	444.7	453.9	457.0	460.1	447.8	432.3	404.5
82.5°	386.0	389.1	395.3	398.4	407.6	410.7	413.8	420.0	413.8	398.4	367.5
85°	355.1	358.2	364.4	364.4	370.6	376.7	379.8	382.9	379.8	364.4	333.5
87.5°	327.3	330.4	333.5	336.6	339.7	342.8	345.9	348.9	345.9	330.4	302.6
90°	302.6	302.6	305.7	305.7	308.8	311.9	318.1	318.1	315.0	302.6	274.8
92.5°	274.8	277.9	277.9	281.0	284.1	287.2	290.3	290.3	287.2	274.8	250.1
95°	256.3	256.3	259.4	259.4	262.5	262.5	265.6	265.6	262.5	250.1	225.4
97.5°	234.7	234.7	234.7	234.7	237.8	237.8	240.9	240.9	237.8	225.4	203.8
100°	216.2	216.2	216.2	216.2	216.2	219.2	219.2	219.2	216.2	203.8	182.2
102.5°	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7	194.5	185.3	163.7
105°	191.5	191.5	191.5	188.4	188.4	188.4	185.3	185.3	176.0	166.8	148.2
107.5°	179.1	179.1	179.1	176.0	176.0	172.9	169.8	169.8	160.6	151.3	132.8
110°	169.8	169.8	169.8	166.8	163.7	160.6	157.5	154.4	145.1	132.8	117.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	160.6	160.6	157.5	157.5	154.4	151.3	145.1	142.0	132.8	120.4	105.0
115°	148.2	148.2	148.2	145.1	142.0	139.0	135.9	129.7	120.4	108.1	92.6
117.5°	135.9	135.9	135.9	132.8	129.7	126.6	123.5	117.3	108.1	95.7	83.4
120°	123.5	123.5	123.5	120.4	117.3	114.3	111.2	105.0	95.7	86.5	71.0
122.5°	114.3	114.3	111.2	108.1	105.0	101.9	98.8	92.6	86.5	74.1	61.8
125°	101.9	101.9	98.8	98.8	95.7	92.6	89.6	83.4	74.1	64.8	55.6
127.5°	92.6	89.6	89.6	89.6	86.5	83.4	77.2	74.1	64.8	55.6	46.3
130°	80.3	80.3	80.3	77.2	77.2	74.1	67.9	61.8	55.6	49.4	40.1
132.5°	71.0	71.0	71.0	71.0	67.9	64.8	58.7	55.6	49.4	40.1	34.0
135°	64.8	64.8	61.8	61.8	58.7	55.6	52.5	46.3	40.1	34.0	27.8
137.5°	55.6	55.6	55.6	52.5	52.5	49.4	43.2	40.1	37.1	30.9	24.7
140°	49.4	49.4	46.3	46.3	43.2	43.2	40.1	34.0	30.9	24.7	21.6
142.5°	43.2	43.2	40.1	40.1	37.1	37.1	34.0	30.9	24.7	21.6	15.4
145°	37.1	37.1	34.0	34.0	34.0	30.9	27.8	24.7	21.6	18.5	15.4
147.5°	30.9	30.9	30.9	27.8	27.8	24.7	24.7	21.6	18.5	15.4	12.4
150°	27.8	27.8	24.7	24.7	24.7	21.6	18.5	18.5	15.4	12.4	9.3
152.5°	21.6	21.6	21.6	21.6	18.5	18.5	15.4	15.4	12.4	9.3	9.3
155°	18.5	18.5	18.5	15.4	15.4	15.4	12.4	12.4	9.3	9.3	6.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4	5978.4
2.5°	5944.4	5941.3	5969.1	5966.0	5928.9	5984.5	6021.6
5°	5928.9	5925.9	5950.6	5956.7	5916.6	5975.3	6015.4
7.5°	5916.6	5913.5	5941.3	5950.6	5910.4	5962.9	6006.1
10°	5919.7	5904.2	5928.9	5935.1	5898.1	5953.6	5990.7
12.5°	5941.3	5904.2	5913.5	5913.5	5879.5	5928.9	5969.1
15°	5993.8	5916.6	5904.2	5895.0	5851.7	5898.1	5938.2
17.5°	6052.5	5947.5	5904.2	5873.4	5820.9	5861.0	5904.2
20°	6111.1	5981.4	5910.4	5861.0	5790.0	5827.0	5857.9
22.5°	6138.9	6012.3	5916.6	5842.5	5752.9	5771.5	5805.4
25°	6101.9	6000.0	5904.2	5814.7	5706.6	5709.7	5737.5
27.5°	5966.0	5938.2	5876.4	5786.9	5669.6	5654.1	5675.7
30°	5734.4	5811.6	5814.7	5749.8	5626.3	5595.4	5604.7
32.5°	5410.2	5583.1	5685.0	5672.6	5564.6	5521.3	5527.5
35°	5036.5	5252.7	5475.0	5549.1	5471.9	5438.0	5425.6
37.5°	4588.8	4879.0	5175.5	5357.7	5345.3	5323.7	5311.3
40°	4094.7	4443.6	4795.7	5085.9	5175.5	5175.5	5181.7
42.5°	3566.6	3974.2	4360.2	4727.7	4937.7	4984.0	5002.5
45°	3057.1	3467.8	3887.8	4310.8	4591.8	4737.0	4789.5
47.5°	2593.9	3007.7	3406.1	3869.3	4242.9	4431.3	4514.6
50°	2198.7	2507.4	2927.4	3387.5	3795.1	4026.7	4190.4
52.5°	1871.3	2112.2	2479.7	2908.9	3319.6	3637.7	3789.0
55°	1596.5	1760.2	2072.0	2442.6	2834.8	3165.2	3341.2
57.5°	1364.9	1494.6	1707.7	2016.5	2346.9	2674.2	2862.6
60°	1161.1	1250.6	1395.8	1639.7	1920.7	2201.7	2383.9
62.5°	985.1	1043.7	1139.5	1318.6	1537.8	1757.1	1926.9
65°	849.2	873.9	926.4	1037.6	1204.3	1371.1	1516.2
67.5°	716.4	731.9	772.0	839.9	923.3	1043.7	1139.5
70°	617.6	617.6	620.7	660.8	704.1	781.3	849.2
72.5°	537.3	528.0	509.5	518.8	528.0	571.3	614.5
75°	472.5	450.8	420.0	407.6	401.4	407.6	432.3
77.5°	416.9	386.0	348.9	318.1	293.4	284.1	305.7
80°	370.6	333.5	290.3	250.1	210.0	188.4	197.6
82.5°	333.5	287.2	240.9	194.5	148.2	117.3	117.3
85°	293.4	250.1	200.7	151.3	105.0	64.8	58.7
87.5°	265.6	219.2	166.8	120.4	74.1	34.0	18.5
90°	237.8	191.5	142.0	95.7	52.5	15.4	0.0
92.5°	213.1	169.8	123.5	77.2	37.1	9.3	0.0
95°	191.5	151.3	105.0	64.8	30.9	6.2	3.1
97.5°	169.8	132.8	92.6	52.5	21.6	6.2	3.1
100°	154.4	117.3	80.3	43.2	18.5	3.1	3.1
102.5°	135.9	105.0	67.9	37.1	15.4	3.1	3.1
105°	120.4	92.6	58.7	30.9	12.4	3.1	3.1
107.5°	108.1	80.3	52.5	27.8	12.4	3.1	3.1
110°	95.7	71.0	46.3	24.7	9.3	3.1	3.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	86.5	61.8	40.1	21.6	6.2	3.1	3.1
115°	74.1	55.6	34.0	18.5	6.2	3.1	3.1
117.5°	64.8	46.3	30.9	15.4	6.2	3.1	3.1
120°	55.6	40.1	24.7	12.4	3.1	3.1	3.1
122.5°	49.4	34.0	21.6	12.4	3.1	3.1	3.1
125°	43.2	30.9	18.5	9.3	3.1	3.1	3.1
127.5°	37.1	24.7	15.4	6.2	3.1	3.1	3.1
130°	30.9	21.6	12.4	6.2	3.1	3.1	3.1
132.5°	24.7	18.5	12.4	6.2	3.1	3.1	3.1
135°	21.6	15.4	9.3	6.2	3.1	3.1	3.1
137.5°	18.5	12.4	6.2	6.2	6.2	3.1	3.1
140°	15.4	9.3	6.2	6.2	6.2	6.2	3.1
142.5°	12.4	9.3	6.2	6.2	6.2	6.2	3.1
145°	9.3	6.2	6.2	6.2	6.2	6.2	3.1
147.5°	9.3	6.2	6.2	6.2	6.2	6.2	3.1
150°	6.2	6.2	6.2	6.2	6.2	6.2	6.2
152.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2
155°	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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)