

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-LD5-200HL-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-LD5-200HL-LC-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

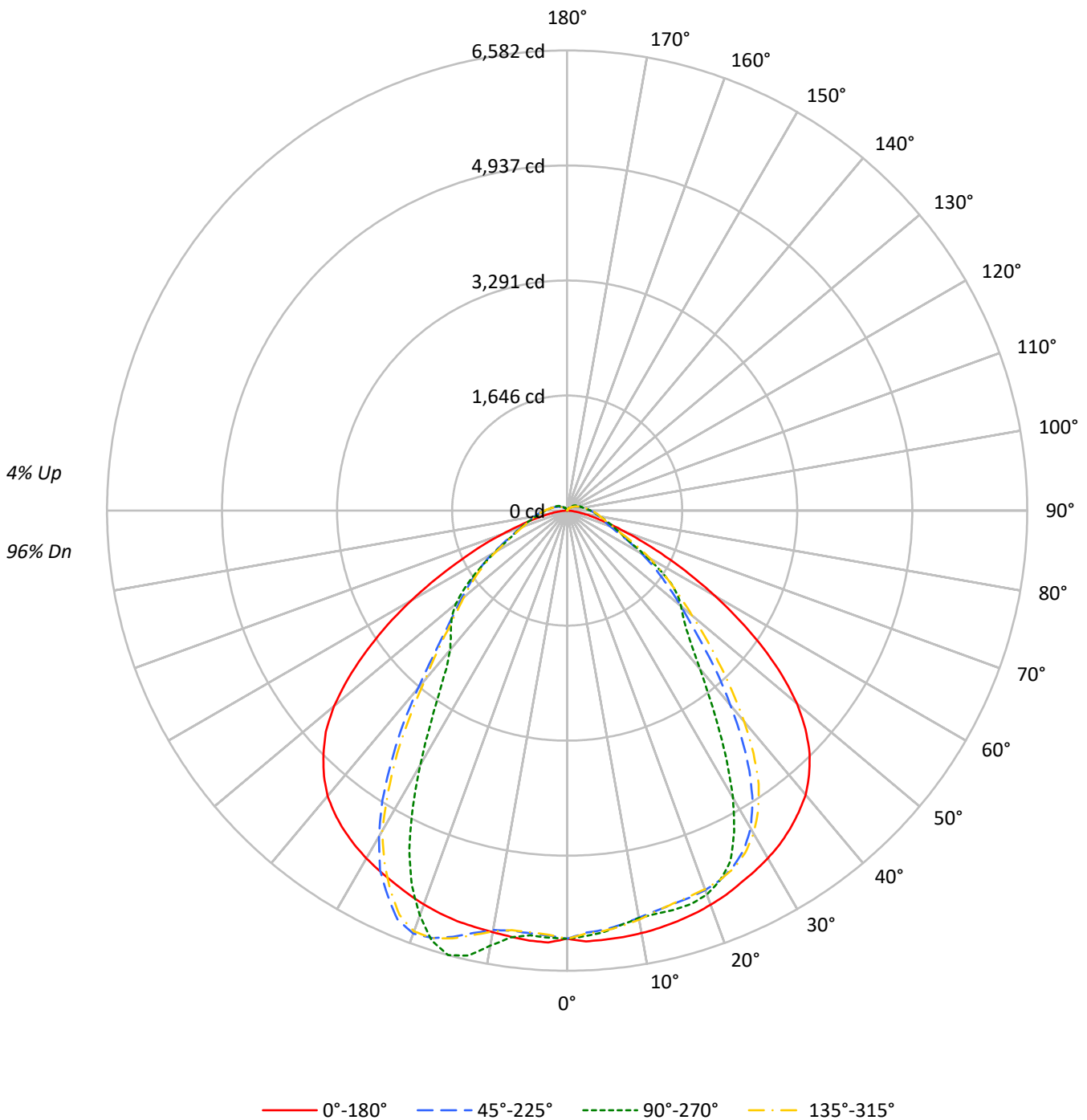
Lumens per Lamp: N/A
Luminaire Lumens: 14598.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
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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CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-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	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°	24742	24742	24742	24742
5°	24956	23761	25008	23947
10°	25106	22773	25055	24319
15°	25337	22469	25324	25017
20°	25653	22112	25627	23308
25°	26010	20977	25996	20269
30°	26545	18181	26559	16107
35°	27115	14701	27192	12441
40°	27632	11837	27747	10429
45°	27601	10026	27744	9764
50°	26487	9231	26857	9025
55°	23582	8297	24170	7542
60°	19212	6351	20233	5824
65°	14366	4859	15478	4607
70°	9853	4194	11106	4010
75°	6532	3784	7606	3579
80°	4326	3528	5070	3246
85°	2364	3520	3111	3215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.7	4.0
10°-20°	1730.6	11.9
20°-30°	2631.1	18.0
30°-40°	2822.5	19.3
40°-50°	2449.6	16.8
50°-60°	1815.4	12.4
60°-70°	1040.2	7.1
70°-80°	576.0	3.9
80°-90°	350.7	2.4
90°-100°	228.1	1.6
100°-110°	152.8	1.0
110°-120°	103.2	0.7
120°-130°	63.3	0.4
130°-140°	33.3	0.2
140°-150°	15.2	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4943.4	33.9
0°-40°	7765.8	53.2
0°-60°	12030.9	82.4
0°-90°	13997.8	95.9
90°-120°	484.0	3.3
90°-150°	595.8	4.1
90°-180°	600.0	4.1
0°-180°	14598.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6124	6124	6124	6124	6124	
5°	6161	6051	6174	6098	6161	587
15°	6082	5912	6079	6582	6082	1721
25°	5877	5529	5874	5342	5877	2717
35°	5557	3764	5573	3185	5557	3479
45°	4906	2413	4931	2350	4906	3756
55°	3422	1809	3508	1645	3422	3035
65°	1553	917	1673	870	1553	1566
75°	443	582	516	550	443	506
85°	60	402	79	367	60	79
90°	0	335	6	310	0	3
95°	3	275	0	262	3	2
105°	3	206	3	196	3	3
115°	3	168	3	152	3	3
125°	3	126	3	104	3	3
135°	3	79	3	66	3	2
145°	3	47	6	38	3	2
155°	6	22	6	19	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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6167.8	6152.0	6145.6	6133.0	6142.5	6180.4	6155.1	6114.0	6117.2	6044.4	6082.4
5°	6161.4	6142.5	6133.0	6120.3	6126.7	6161.4	6136.1	6095.0	6091.9	6019.1	6053.9
7.5°	6152.0	6133.0	6117.2	6107.7	6110.8	6139.3	6107.7	6060.2	6050.7	5971.7	6003.3
10°	6136.1	6123.5	6101.3	6085.5	6082.4	6114.0	6063.4	6016.0	5993.8	5911.6	5943.2
12.5°	6114.0	6095.0	6072.9	6044.4	6041.3	6060.2	6019.1	5952.7	5930.6	5864.1	5898.9
15°	6082.4	6060.2	6034.9	6003.3	5987.5	6000.1	5949.5	5889.4	5886.3	5829.3	5876.8
17.5°	6047.6	6016.0	5987.5	5943.2	5921.1	5930.6	5889.4	5835.7	5842.0	5807.2	5861.0
20°	6000.1	5965.3	5921.1	5876.8	5845.2	5861.0	5832.5	5791.4	5800.9	5775.6	5823.0
22.5°	5946.4	5898.9	5845.2	5794.5	5769.2	5791.4	5769.2	5734.4	5737.6	5721.8	5750.3
25°	5876.8	5823.0	5759.8	5696.5	5683.8	5699.7	5687.0	5658.5	5645.9	5620.6	5633.2
27.5°	5813.5	5753.4	5674.4	5607.9	5585.8	5617.4	5589.0	5541.5	5506.7	5471.9	5446.6
30°	5740.8	5668.0	5579.5	5503.6	5484.6	5497.2	5456.1	5383.4	5291.6	5247.4	5177.8
32.5°	5661.7	5566.8	5456.1	5370.7	5358.1	5348.6	5272.7	5168.3	5025.9	4937.4	4829.8
35°	5557.3	5452.9	5320.1	5215.7	5196.7	5143.0	5019.6	4880.4	4697.0	4545.2	4361.7
37.5°	5440.3	5316.9	5177.8	5038.6	4984.8	4877.3	4703.3	4557.8	4279.5	4096.0	3874.6
40°	5307.4	5158.8	4988.0	4820.4	4731.8	4557.8	4358.6	4143.5	3874.6	3627.9	3441.3
42.5°	5124.0	4965.8	4763.4	4576.8	4425.0	4194.1	3960.0	3656.4	3409.7	3200.9	3011.1
45°	4905.8	4716.0	4481.9	4257.3	4064.4	3789.2	3514.0	3210.4	3004.8	2761.3	2631.6
47.5°	4624.2	4418.7	4168.8	3918.9	3665.9	3362.2	3074.4	2783.4	2577.8	2403.8	2309.0
50°	4292.1	4102.4	3827.2	3529.9	3251.5	2935.2	2647.4	2429.2	2229.9	2122.3	2049.6
52.5°	3881.0	3703.8	3422.3	3099.7	2830.8	2520.9	2258.4	2081.2	1938.9	1859.8	1834.5
55°	3422.3	3267.3	2989.0	2688.5	2413.3	2128.7	1929.4	1774.4	1682.7	1635.3	1638.4
57.5°	2932.1	2811.9	2549.3	2280.5	2021.1	1806.1	1625.8	1502.4	1432.8	1429.7	1439.1
60°	2441.8	2353.2	2125.5	1894.6	1666.9	1492.9	1360.1	1274.7	1230.4	1233.6	1230.4
62.5°	1973.7	1891.5	1727.0	1537.2	1356.9	1239.9	1119.7	1084.9	1046.9	1043.8	1043.8
65°	1553.0	1489.8	1356.9	1220.9	1084.9	1009.0	948.9	907.8	879.3	873.0	876.1
67.5°	1167.1	1141.8	1050.1	958.4	873.0	825.5	774.9	765.4	743.3	743.3	749.6
70°	869.8	850.8	800.2	746.5	711.7	680.0	654.7	654.7	651.6	648.4	664.2
72.5°	629.4	632.6	616.8	575.7	572.5	566.2	559.8	569.3	572.5	582.0	601.0
75°	442.8	452.3	452.3	446.0	458.6	474.4	483.9	499.7	518.7	531.4	553.5
77.5°	313.1	313.1	328.9	347.9	373.2	401.7	427.0	449.1	474.4	490.3	509.2
80°	202.4	211.9	237.2	272.0	306.8	344.8	379.6	408.0	433.3	458.6	471.3
82.5°	120.2	136.0	167.6	211.9	256.2	303.6	338.4	373.2	401.7	427.0	436.5
85°	60.1	82.2	120.2	167.6	215.1	265.7	310.0	341.6	373.2	395.4	408.0
87.5°	19.0	44.3	85.4	129.7	180.3	230.9	278.3	313.1	341.6	360.6	373.2
90°	0.0	22.1	60.1	107.5	155.0	205.6	249.9	287.8	316.3	332.1	341.6
92.5°	0.0	12.7	47.4	88.6	132.8	183.5	227.7	262.5	287.8	303.6	310.0
95°	3.2	9.5	34.8	72.7	117.0	164.5	205.6	237.2	262.5	278.3	281.5
97.5°	3.2	6.3	28.5	60.1	101.2	145.5	186.6	218.2	237.2	253.0	256.2
100°	3.2	6.3	22.1	53.8	88.6	129.7	167.6	196.1	218.2	230.9	234.1
102.5°	3.2	3.2	19.0	44.3	79.1	113.9	148.7	177.1	196.1	208.8	215.1
105°	3.2	3.2	15.8	38.0	69.6	101.2	132.8	161.3	177.1	189.8	196.1
107.5°	3.2	3.2	12.7	31.6	60.1	88.6	120.2	142.3	161.3	174.0	180.3
110°	3.2	3.2	9.5	28.5	50.6	79.1	104.4	126.5	145.5	158.1	164.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.2	3.2	9.5	25.3	44.3	69.6	91.7	113.9	129.7	142.3	151.8
115°	3.2	3.2	9.5	22.1	41.1	60.1	82.2	101.2	117.0	129.7	139.2
117.5°	3.2	3.2	9.5	19.0	34.8	53.8	72.7	91.7	104.4	117.0	126.5
120°	3.2	3.2	6.3	15.8	31.6	47.4	63.3	79.1	94.9	107.5	117.0
122.5°	3.2	3.2	6.3	15.8	25.3	41.1	56.9	69.6	85.4	94.9	104.4
125°	3.2	3.2	6.3	12.7	22.1	38.0	50.6	63.3	72.7	85.4	94.9
127.5°	3.2	3.2	6.3	12.7	19.0	31.6	44.3	56.9	66.4	75.9	82.2
130°	3.2	3.2	6.3	9.5	15.8	25.3	38.0	47.4	60.1	66.4	72.7
132.5°	3.2	3.2	3.2	9.5	12.7	19.0	28.5	41.1	50.6	60.1	63.3
135°	3.2	3.2	3.2	6.3	12.7	15.8	22.1	31.6	41.1	50.6	56.9
137.5°	3.2	3.2	3.2	6.3	9.5	15.8	19.0	25.3	34.8	41.1	50.6
140°	3.2	3.2	3.2	6.3	9.5	12.7	15.8	22.1	28.5	34.8	41.1
142.5°	3.2	3.2	3.2	6.3	6.3	9.5	12.7	19.0	22.1	28.5	34.8
145°	3.2	3.2	3.2	6.3	6.3	9.5	12.7	15.8	19.0	22.1	28.5
147.5°	3.2	3.2	3.2	6.3	6.3	6.3	9.5	12.7	15.8	19.0	22.1
150°	6.3	6.3	6.3	6.3	6.3	6.3	9.5	9.5	12.7	15.8	19.0
152.5°	6.3	6.3	6.3	6.3	6.3	6.3	9.5	9.5	9.5	12.7	15.8
155°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.5	9.5	12.7	12.7
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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6069.7	6076.0	6114.0	6110.8	6104.5	6098.2	6098.2	6091.9	6098.2	6114.0	6107.7
5°	6038.1	6047.6	6076.0	6072.9	6066.6	6063.4	6060.2	6050.7	6057.1	6079.2	6072.9
7.5°	5981.2	5990.6	6016.0	6003.3	5993.8	6000.1	5984.3	5974.8	5987.5	6009.6	6006.5
10°	5921.1	5927.4	5959.0	5952.7	5936.9	5940.0	5924.2	5917.9	5933.7	5946.4	5949.5
12.5°	5879.9	5902.1	5930.6	5927.4	5924.2	5927.4	5911.6	5905.2	5914.7	5927.4	5924.2
15°	5870.5	5898.9	5930.6	5930.6	5933.7	5936.9	5921.1	5911.6	5921.1	5930.6	5927.4
17.5°	5861.0	5895.8	5924.2	5921.1	5924.2	5930.6	5905.2	5898.9	5911.6	5924.2	5917.9
20°	5829.3	5861.0	5879.9	5873.6	5873.6	5876.8	5845.2	5845.2	5864.1	5873.6	5876.8
22.5°	5740.8	5778.7	5778.7	5762.9	5762.9	5750.3	5740.8	5721.8	5743.9	5759.8	5772.4
25°	5607.9	5623.7	5604.8	5570.0	5551.0	5535.2	5490.9	5528.9	5528.9	5576.3	5592.1
27.5°	5421.3	5386.5	5332.8	5260.0	5244.2	5193.6	5165.1	5174.6	5190.4	5256.8	5307.4
30°	5114.5	5010.1	4918.4	4886.8	4817.2	4766.6	4716.0	4741.3	4769.7	4807.7	4912.1
32.5°	4709.6	4608.4	4459.8	4406.0	4333.3	4270.0	4209.9	4247.9	4298.5	4323.8	4437.6
35°	4244.7	4124.5	3988.5	3896.8	3820.9	3786.1	3710.2	3763.9	3817.7	3836.7	3934.7
37.5°	3751.3	3627.9	3507.7	3428.6	3355.9	3333.8	3283.2	3321.1	3362.2	3390.7	3472.9
40°	3283.2	3169.3	3077.6	3023.8	2973.2	2954.2	2935.2	2951.0	2982.7	3004.8	3068.1
42.5°	2881.5	2789.7	2726.5	2694.8	2660.0	2634.7	2637.9	2644.2	2660.0	2707.5	2736.0
45°	2530.4	2476.6	2435.5	2429.2	2407.0	2403.8	2400.7	2413.3	2422.8	2451.3	2473.4
47.5°	2248.9	2226.7	2217.2	2229.9	2239.4	2226.7	2233.0	2248.9	2267.8	2267.8	2264.7
50°	2027.5	2033.8	2046.4	2074.9	2093.9	2100.2	2106.5	2125.5	2128.7	2135.0	2125.5
52.5°	1847.2	1853.5	1888.3	1932.6	1954.7	1964.2	1976.9	1995.8	1995.8	2002.2	1989.5
55°	1663.7	1673.2	1708.0	1752.3	1771.3	1783.9	1796.6	1809.2	1818.7	1831.4	1821.9
57.5°	1461.3	1489.8	1511.9	1524.5	1537.2	1546.7	1556.2	1559.3	1578.3	1581.5	1597.3
60°	1246.2	1252.5	1274.7	1271.5	1262.0	1287.3	1274.7	1296.8	1319.0	1347.4	1350.6
62.5°	1040.6	1043.8	1059.6	1053.3	1065.9	1062.8	1072.2	1072.2	1088.1	1100.7	1116.5
65°	879.3	882.5	895.1	895.1	892.0	901.4	910.9	917.3	917.3	926.7	939.4
67.5°	759.1	768.6	781.3	787.6	793.9	793.9	803.4	806.6	812.9	816.0	822.4
70°	676.9	689.5	702.2	708.5	711.7	718.0	721.2	721.2	727.5	730.6	737.0
72.5°	616.8	629.4	638.9	638.9	645.2	648.4	648.4	651.6	654.7	661.1	667.4
75°	566.2	575.7	582.0	578.8	578.8	578.8	582.0	582.0	588.3	594.6	601.0
77.5°	518.7	528.2	528.2	521.9	521.9	521.9	521.9	525.1	528.2	534.5	540.9
80°	483.9	483.9	480.8	480.8	474.4	471.3	471.3	474.4	474.4	480.8	490.3
82.5°	446.0	446.0	442.8	439.7	436.5	433.3	433.3	436.5	439.7	442.8	449.1
85°	411.2	411.2	404.9	404.9	401.7	401.7	401.7	401.7	404.9	408.0	414.3
87.5°	376.4	373.2	370.1	366.9	366.9	366.9	366.9	366.9	370.1	376.4	379.6
90°	341.6	338.4	335.3	335.3	332.1	332.1	335.3	335.3	338.4	341.6	344.8
92.5°	310.0	306.8	303.6	303.6	300.5	300.5	303.6	300.5	306.8	306.8	310.0
95°	281.5	278.3	275.2	275.2	275.2	275.2	275.2	275.2	278.3	278.3	281.5
97.5°	256.2	253.0	249.9	249.9	253.0	249.9	253.0	253.0	253.0	256.2	259.4
100°	234.1	230.9	230.9	234.1	230.9	230.9	234.1	234.1	234.1	234.1	237.2
102.5°	215.1	215.1	215.1	215.1	215.1	215.1	218.2	218.2	218.2	218.2	221.4
105°	196.1	199.3	199.3	199.3	202.4	202.4	202.4	205.6	205.6	205.6	205.6
107.5°	183.5	186.6	186.6	189.8	189.8	192.9	192.9	192.9	192.9	196.1	196.1
110°	170.8	174.0	177.1	180.3	180.3	183.5	183.5	183.5	183.5	183.5	183.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	158.1	161.3	164.5	170.8	174.0	174.0	174.0	174.0	177.1	177.1	174.0
115°	145.5	151.8	155.0	161.3	164.5	164.5	167.6	167.6	167.6	167.6	164.5
117.5°	132.8	142.3	145.5	151.8	155.0	155.0	158.1	158.1	158.1	158.1	155.0
120°	123.4	129.7	136.0	139.2	142.3	145.5	145.5	148.7	148.7	148.7	145.5
122.5°	113.9	120.2	126.5	129.7	132.8	136.0	136.0	136.0	136.0	136.0	136.0
125°	101.2	107.5	113.9	117.0	120.2	123.4	123.4	126.5	126.5	126.5	123.4
127.5°	91.7	98.1	101.2	107.5	110.7	110.7	113.9	113.9	113.9	113.9	110.7
130°	79.1	85.4	91.7	94.9	98.1	98.1	101.2	101.2	101.2	101.2	101.2
132.5°	69.6	75.9	79.1	85.4	85.4	88.6	88.6	91.7	91.7	91.7	88.6
135°	63.3	66.4	69.6	75.9	75.9	79.1	79.1	79.1	79.1	79.1	79.1
137.5°	56.9	60.1	63.3	66.4	66.4	69.6	69.6	69.6	69.6	72.7	69.6
140°	47.4	53.8	56.9	56.9	60.1	60.1	60.1	63.3	63.3	63.3	60.1
142.5°	41.1	44.3	47.4	50.6	53.8	53.8	53.8	53.8	56.9	53.8	53.8
145°	31.6	38.0	41.1	44.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4
147.5°	25.3	28.5	34.8	38.0	38.0	41.1	41.1	41.1	41.1	41.1	41.1
150°	22.1	22.1	28.5	31.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8
152.5°	15.8	19.0	22.1	25.3	28.5	28.5	28.5	28.5	28.5	28.5	28.5
155°	15.8	15.8	19.0	19.0	22.1	22.1	22.1	22.1	25.3	22.1	22.1
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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6098.2	6095.0	6107.7	6095.0	6031.8	6057.1	6047.6	6082.4	6085.5	6095.0	6126.7
5°	6066.6	6066.6	6082.4	6069.7	6009.6	6034.9	6031.8	6066.6	6072.9	6079.2	6114.0
7.5°	6003.3	6006.5	6028.6	6019.1	5955.9	5993.8	5990.6	6031.8	6044.4	6057.1	6088.7
10°	5943.2	5940.0	5965.3	5955.9	5895.8	5940.0	5936.9	5978.0	5997.0	6019.1	6057.1
12.5°	5911.6	5902.1	5911.6	5902.1	5835.7	5870.5	5873.6	5921.1	5943.2	5971.7	6016.0
15°	5911.6	5895.8	5895.8	5876.8	5800.9	5823.0	5826.2	5857.8	5886.3	5914.7	5968.5
17.5°	5905.2	5889.4	5886.3	5870.5	5788.2	5788.2	5785.1	5807.2	5823.0	5851.5	5908.4
20°	5870.5	5864.1	5861.0	5851.5	5775.6	5762.9	5756.6	5756.6	5766.1	5775.6	5832.5
22.5°	5778.7	5785.1	5791.4	5797.7	5737.6	5715.5	5718.6	5712.3	5702.8	5702.8	5750.3
25°	5607.9	5639.6	5664.9	5693.3	5658.5	5642.7	5661.7	5652.2	5636.4	5623.7	5664.9
27.5°	5335.9	5402.3	5456.1	5525.7	5528.9	5516.2	5566.8	5560.5	5557.3	5538.3	5570.0
30°	4959.5	5063.9	5136.6	5237.9	5323.3	5335.9	5421.3	5434.0	5446.6	5437.1	5468.8
32.5°	4504.1	4646.4	4769.7	4927.9	5010.1	5082.9	5203.1	5253.7	5304.3	5320.1	5354.9
35°	4007.5	4168.8	4314.3	4488.2	4617.9	4776.1	4921.6	4997.5	5111.3	5155.6	5206.2
37.5°	3536.2	3688.0	3830.3	4004.3	4213.1	4377.5	4557.8	4728.6	4883.6	4946.9	5022.8
40°	3118.7	3242.0	3378.0	3529.9	3719.6	3934.7	4130.8	4368.0	4551.5	4678.0	4788.7
42.5°	2802.4	2862.5	2979.5	3115.5	3267.3	3485.6	3684.8	3950.5	4171.9	4352.2	4535.7
45°	2520.9	2549.3	2634.7	2707.5	2862.5	3055.4	3267.3	3526.7	3757.6	3988.5	4209.9
47.5°	2280.5	2315.3	2356.4	2400.7	2511.4	2672.7	2856.2	3090.2	3321.1	3590.0	3843.0
50°	2119.2	2128.7	2135.0	2154.0	2220.4	2331.1	2479.8	2679.0	2900.4	3188.3	3457.1
52.5°	1976.9	1976.9	1957.9	1948.4	1973.7	2043.3	2128.7	2271.0	2498.7	2764.4	3049.1
55°	1825.0	1796.6	1790.2	1758.6	1764.9	1796.6	1837.7	1948.4	2135.0	2362.7	2637.9
57.5°	1613.1	1600.5	1600.5	1587.8	1562.5	1578.3	1587.8	1666.9	1799.7	1995.8	2236.2
60°	1369.6	1363.2	1379.1	1382.2	1360.1	1369.6	1366.4	1413.8	1508.7	1666.9	1866.1
62.5°	1126.0	1154.5	1157.6	1170.3	1157.6	1154.5	1170.3	1211.4	1258.9	1379.1	1534.0
65°	945.7	961.5	964.7	980.5	974.2	974.2	986.8	1018.5	1046.9	1129.2	1249.4
67.5°	828.7	822.4	825.5	835.0	825.5	822.4	831.9	850.8	873.0	923.6	1009.0
70°	737.0	730.6	730.6	730.6	718.0	708.5	711.7	718.0	727.5	755.9	809.7
72.5°	667.4	667.4	657.9	648.4	638.9	632.6	626.3	619.9	616.8	626.3	654.7
75°	604.1	607.3	604.1	594.6	582.0	569.3	556.7	544.0	528.2	521.9	525.1
77.5°	547.2	550.4	553.5	550.4	537.7	521.9	502.9	483.9	461.8	439.7	427.0
80°	496.6	502.9	506.1	502.9	493.4	480.8	458.6	436.5	404.9	376.4	344.8
82.5°	452.3	461.8	465.0	465.0	458.6	446.0	420.7	395.4	360.6	322.6	281.5
85°	417.5	423.8	430.2	430.2	427.0	414.3	389.0	360.6	325.8	281.5	237.2
87.5°	382.7	385.9	392.2	398.5	392.2	379.6	357.4	325.8	291.0	246.7	196.1
90°	347.9	351.1	357.4	363.7	360.6	347.9	328.9	300.5	262.5	215.1	164.5
92.5°	313.1	319.5	322.6	325.8	328.9	319.5	303.6	275.2	237.2	189.8	142.3
95°	287.8	287.8	294.2	297.3	300.5	291.0	278.3	249.9	215.1	170.8	123.4
97.5°	262.5	262.5	268.9	268.9	272.0	265.7	253.0	227.7	192.9	151.8	104.4
100°	237.2	240.4	243.5	246.7	246.7	243.5	230.9	205.6	174.0	136.0	91.7
102.5°	221.4	221.4	224.6	224.6	227.7	221.4	208.8	186.6	155.0	120.2	79.1
105°	205.6	205.6	208.8	208.8	205.6	199.3	186.6	167.6	139.2	104.4	69.6
107.5°	192.9	192.9	192.9	192.9	189.8	183.5	170.8	148.7	123.4	94.9	63.3
110°	183.5	180.3	180.3	177.1	174.0	164.5	151.8	132.8	110.7	82.2	53.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	174.0	170.8	167.6	164.5	158.1	148.7	136.0	120.2	98.1	72.7	47.4
115°	164.5	161.3	158.1	151.8	145.5	136.0	123.4	107.5	85.4	63.3	41.1
117.5°	155.0	151.8	145.5	139.2	132.8	123.4	110.7	94.9	75.9	56.9	38.0
120°	142.3	139.2	136.0	129.7	123.4	110.7	98.1	85.4	66.4	50.6	31.6
122.5°	132.8	129.7	123.4	120.2	110.7	101.2	88.6	75.9	60.1	44.3	28.5
125°	120.2	117.0	113.9	107.5	101.2	88.6	79.1	66.4	53.8	38.0	22.1
127.5°	110.7	107.5	101.2	94.9	88.6	79.1	69.6	60.1	47.4	31.6	22.1
130°	98.1	94.9	91.7	85.4	79.1	69.6	63.3	50.6	41.1	28.5	19.0
132.5°	85.4	85.4	82.2	75.9	69.6	63.3	53.8	44.3	34.8	25.3	15.8
135°	79.1	75.9	72.7	66.4	63.3	53.8	47.4	38.0	28.5	22.1	12.7
137.5°	69.6	66.4	63.3	60.1	53.8	47.4	41.1	31.6	25.3	19.0	12.7
140°	60.1	56.9	56.9	50.6	47.4	41.1	34.8	28.5	22.1	15.8	9.5
142.5°	53.8	50.6	47.4	44.3	41.1	34.8	28.5	22.1	19.0	12.7	9.5
145°	47.4	44.3	41.1	38.0	34.8	28.5	25.3	19.0	15.8	12.7	9.5
147.5°	38.0	38.0	34.8	31.6	28.5	25.3	22.1	19.0	12.7	9.5	6.3
150°	31.6	31.6	28.5	25.3	25.3	22.1	19.0	15.8	12.7	9.5	6.3
152.5°	28.5	25.3	25.3	22.1	22.1	19.0	15.8	12.7	9.5	9.5	6.3
155°	22.1	22.1	22.1	19.0	19.0	15.8	12.7	12.7	9.5	6.3	6.3
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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6133.0	6095.0	6126.7	6183.6	6177.3	6170.9	6164.6	6177.3	6218.4	6196.2	6161.4
5°	6123.5	6085.5	6120.3	6174.1	6170.9	6161.4	6155.1	6167.8	6208.9	6186.7	6148.8
7.5°	6104.5	6069.7	6095.0	6148.8	6148.8	6142.5	6136.1	6148.8	6186.7	6167.8	6129.8
10°	6072.9	6047.6	6072.9	6123.5	6126.7	6114.0	6107.7	6123.5	6161.4	6152.0	6120.3
12.5°	6047.6	6022.3	6050.7	6101.3	6104.5	6091.9	6082.4	6101.3	6152.0	6158.3	6148.8
15°	6012.8	5990.6	6025.4	6079.2	6079.2	6069.7	6069.7	6095.0	6164.6	6193.1	6208.9
17.5°	5962.2	5946.4	5987.5	6041.3	6044.4	6038.1	6041.3	6091.9	6183.6	6253.2	6297.5
20°	5898.9	5892.6	5936.9	5993.8	6003.3	6006.5	6022.3	6098.2	6224.7	6319.6	6363.9
22.5°	5823.0	5826.2	5876.8	5936.9	5949.5	5959.0	5990.6	6098.2	6256.3	6357.5	6376.5
25°	5737.6	5747.1	5800.9	5873.6	5889.4	5908.4	5962.2	6101.3	6265.8	6332.2	6300.6
27.5°	5645.9	5664.9	5734.4	5810.4	5829.3	5861.0	5930.6	6082.4	6221.5	6224.7	6107.7
30°	5551.0	5573.1	5655.4	5743.9	5775.6	5807.2	5892.6	6038.1	6114.0	6012.8	5807.2
32.5°	5443.5	5475.1	5557.3	5664.9	5702.8	5743.9	5829.3	5952.7	5924.2	5706.0	5411.8
35°	5307.4	5351.7	5446.6	5573.1	5607.9	5661.7	5721.8	5750.3	5623.7	5313.8	4981.7
37.5°	5139.8	5206.2	5316.9	5462.4	5500.4	5535.2	5551.0	5471.9	5218.9	4883.6	4538.8
40°	4946.9	5048.1	5168.3	5329.6	5367.5	5367.5	5310.6	5143.0	4823.5	4383.9	4001.1
42.5°	4712.8	4836.2	4988.0	5149.3	5187.3	5143.0	5007.0	4712.8	4349.1	3858.8	3454.0
45°	4428.1	4592.6	4763.4	4931.1	4950.0	4852.0	4608.4	4235.2	3786.1	3330.6	2944.7
47.5°	4089.7	4304.8	4491.4	4681.2	4655.9	4491.4	4165.6	3741.8	3267.3	2837.2	2527.2
50°	3710.2	3963.2	4171.9	4352.2	4298.5	4070.7	3688.0	3245.2	2773.9	2407.0	2150.8
52.5°	3305.3	3596.3	3805.0	3950.5	3877.8	3605.8	3185.1	2761.3	2375.4	2040.1	1869.3
55°	2884.6	3178.8	3393.9	3507.7	3412.8	3118.7	2704.3	2318.4	1954.7	1736.5	1635.3
57.5°	2476.6	2751.8	2954.2	3045.9	2925.7	2631.6	2248.9	1923.1	1660.6	1477.1	1426.5
60°	2084.4	2309.0	2501.9	2571.5	2441.8	2169.8	1840.8	1581.5	1388.5	1262.0	1236.7
62.5°	1720.7	1904.1	2055.9	2109.7	1983.2	1771.3	1486.6	1293.7	1157.6	1094.4	1062.8
65°	1420.2	1527.7	1682.7	1673.2	1597.3	1401.2	1192.4	1056.4	967.9	926.7	907.8
67.5°	1116.5	1214.6	1312.6	1325.3	1230.4	1094.4	958.4	860.3	812.9	790.7	781.3
70°	863.5	936.2	996.3	980.5	929.9	844.5	759.1	705.3	686.4	676.9	676.9
72.5°	670.5	708.5	737.0	718.0	686.4	642.1	601.0	578.8	582.0	588.3	594.6
75°	518.7	528.2	534.5	515.6	509.2	480.8	477.6	480.8	499.7	518.7	528.2
77.5°	398.5	385.9	376.4	357.4	360.6	357.4	373.2	398.5	427.0	455.5	480.8
80°	306.8	278.3	256.2	237.2	246.7	262.5	294.2	332.1	370.1	401.7	433.3
82.5°	237.2	196.1	164.5	145.5	164.5	189.8	230.9	278.3	322.6	357.4	392.2
85°	183.5	136.0	98.1	79.1	98.1	136.0	180.3	234.1	281.5	319.5	354.3
87.5°	142.3	98.1	53.8	31.6	53.8	94.9	145.5	196.1	243.5	287.8	322.6
90°	113.9	66.4	25.3	6.3	28.5	66.4	113.9	164.5	211.9	259.4	294.2
92.5°	91.7	47.4	12.7	0.0	15.8	50.6	94.9	142.3	189.8	234.1	268.9
95°	75.9	38.0	9.5	0.0	12.7	38.0	75.9	123.4	167.6	211.9	240.4
97.5°	63.3	28.5	6.3	0.0	6.3	31.6	63.3	104.4	148.7	189.8	218.2
100°	53.8	25.3	6.3	0.0	6.3	25.3	53.8	91.7	129.7	167.6	196.1
102.5°	44.3	19.0	3.2	3.2	3.2	19.0	47.4	79.1	113.9	148.7	177.1
105°	41.1	15.8	3.2	3.2	3.2	15.8	41.1	69.6	101.2	132.8	158.1
107.5°	34.8	12.7	3.2	3.2	3.2	12.7	34.8	60.1	91.7	120.2	142.3
110°	28.5	12.7	3.2	3.2	3.2	12.7	28.5	53.8	79.1	104.4	126.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.3	9.5	3.2	3.2	3.2	9.5	25.3	47.4	69.6	94.9	113.9
115°	22.1	9.5	3.2	3.2	3.2	9.5	22.1	41.1	60.1	82.2	101.2
117.5°	19.0	9.5	3.2	3.2	3.2	6.3	19.0	34.8	53.8	72.7	91.7
120°	15.8	6.3	3.2	3.2	3.2	6.3	15.8	31.6	47.4	63.3	79.1
122.5°	15.8	6.3	3.2	3.2	3.2	6.3	12.7	25.3	41.1	53.8	69.6
125°	12.7	6.3	3.2	3.2	3.2	3.2	12.7	22.1	34.8	47.4	60.1
127.5°	12.7	6.3	3.2	3.2	3.2	3.2	9.5	19.0	28.5	41.1	53.8
130°	9.5	6.3	3.2	3.2	3.2	3.2	6.3	15.8	25.3	34.8	44.3
132.5°	9.5	6.3	3.2	3.2	3.2	3.2	6.3	12.7	19.0	28.5	38.0
135°	9.5	3.2	3.2	3.2	3.2	3.2	3.2	9.5	15.8	22.1	28.5
137.5°	6.3	3.2	3.2	3.2	3.2	3.2	3.2	6.3	12.7	15.8	25.3
140°	6.3	3.2	3.2	3.2	3.2	3.2	3.2	6.3	9.5	12.7	19.0
142.5°	6.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	9.5	15.8
145°	6.3	3.2	3.2	6.3	6.3	3.2	3.2	6.3	6.3	9.5	12.7
147.5°	6.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	6.3	9.5
150°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	9.5
152.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
155°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6155.1	6082.4	6120.3	6107.7	6120.3	6152.0	6148.8	6139.3	6145.6	6129.8	6114.0
5°	6142.5	6069.7	6107.7	6091.9	6107.7	6139.3	6133.0	6123.5	6133.0	6114.0	6098.2
7.5°	6126.7	6060.2	6104.5	6101.3	6129.8	6170.9	6174.1	6174.1	6196.2	6167.8	6155.1
10°	6126.7	6091.9	6152.0	6174.1	6246.8	6300.6	6306.9	6319.6	6357.5	6351.2	6319.6
12.5°	6193.1	6186.7	6275.3	6329.1	6395.5	6471.4	6512.5	6525.2	6550.5	6531.5	6518.9
15°	6278.5	6310.1	6408.2	6468.3	6541.0	6597.9	6607.4	6613.7	6632.7	6604.3	6582.1
17.5°	6392.3	6411.3	6490.4	6515.7	6563.1	6572.6	6560.0	6528.3	6528.3	6465.1	6446.1
20°	6446.1	6436.6	6468.3	6427.1	6408.2	6351.2	6297.5	6237.4	6234.2	6167.8	6161.4
22.5°	6398.7	6335.4	6269.0	6167.8	6123.5	6041.3	5968.5	5933.7	5911.6	5826.2	5804.0
25°	6231.0	6076.0	5978.0	5857.8	5750.3	5655.4	5585.8	5513.0	5443.5	5373.9	5342.2
27.5°	5940.0	5794.5	5636.4	5468.8	5320.1	5174.6	5057.6	4984.8	4918.4	4826.7	4779.2
30°	5582.6	5380.2	5206.2	5044.9	4801.4	4624.2	4526.2	4380.7	4330.1	4289.0	4200.4
32.5°	5162.0	4918.4	4681.2	4462.9	4213.1	4048.6	3918.9	3811.4	3779.7	3672.2	3646.9
35°	4697.0	4377.5	4108.7	3893.6	3713.3	3514.0	3406.5	3333.8	3270.5	3197.8	3185.1
37.5°	4149.8	3862.0	3558.3	3368.6	3226.2	3055.4	2973.2	2922.6	2894.1	2840.3	2830.8
40°	3599.4	3311.6	3102.9	2913.1	2824.5	2732.8	2672.7	2650.6	2637.9	2618.9	2600.0
42.5°	3099.7	2846.7	2698.0	2571.5	2533.5	2489.2	2473.4	2486.1	2473.4	2467.1	2463.9
45°	2675.9	2482.9	2378.5	2340.6	2331.1	2318.4	2331.1	2353.2	2356.4	2350.1	2350.1
47.5°	2290.0	2198.3	2154.0	2160.3	2176.1	2185.6	2207.7	2236.2	2242.5	2226.7	2233.0
50°	2036.9	1983.2	1973.7	1999.0	2033.8	2046.4	2071.7	2093.9	2090.7	2084.4	2078.1
52.5°	1799.7	1783.9	1809.2	1834.5	1872.5	1878.8	1888.3	1897.8	1894.6	1882.0	1875.6
55°	1600.5	1613.1	1635.3	1644.7	1673.2	1670.0	1673.2	1673.2	1660.6	1654.2	1644.7
57.5°	1420.2	1423.3	1436.0	1439.1	1455.0	1448.6	1445.5	1439.1	1420.2	1417.0	1407.5
60°	1236.7	1230.4	1258.9	1236.7	1249.4	1236.7	1233.6	1217.7	1198.8	1195.6	1189.3
62.5°	1062.8	1050.1	1069.1	1059.6	1065.9	1053.3	1046.9	1028.0	1012.1	1009.0	1005.8
65°	907.8	901.4	920.4	917.3	923.6	907.8	901.4	888.8	876.1	873.0	869.8
67.5°	778.1	793.9	803.4	803.4	809.7	806.6	790.7	787.6	784.4	771.8	771.8
70°	683.2	692.7	711.7	714.8	711.7	718.0	705.3	702.2	699.0	692.7	689.5
72.5°	607.3	619.9	638.9	642.1	638.9	638.9	632.6	629.4	629.4	619.9	619.9
75°	547.2	563.0	578.8	578.8	578.8	572.5	566.2	566.2	559.8	556.7	550.4
77.5°	496.6	515.6	528.2	525.1	521.9	515.6	515.6	506.1	496.6	496.6	490.3
80°	458.6	471.3	480.8	477.6	474.4	465.0	461.8	452.3	446.0	436.5	436.5
82.5°	417.5	433.3	439.7	436.5	430.2	420.7	417.5	411.2	404.9	401.7	395.4
85°	382.7	398.5	401.7	395.4	389.0	382.7	379.6	376.4	373.2	366.9	366.9
87.5°	347.9	363.7	363.7	360.6	354.3	351.1	347.9	344.8	341.6	338.4	335.3
90°	319.5	332.1	332.1	328.9	325.8	322.6	319.5	316.3	313.1	310.0	310.0
92.5°	291.0	303.6	303.6	300.5	297.3	294.2	294.2	291.0	287.8	284.7	281.5
95°	265.7	278.3	278.3	278.3	275.2	272.0	272.0	268.9	265.7	265.7	262.5
97.5°	240.4	253.0	253.0	253.0	249.9	246.7	246.7	243.5	243.5	243.5	240.4
100°	218.2	227.7	230.9	230.9	227.7	227.7	227.7	224.6	224.6	224.6	221.4
102.5°	196.1	205.6	211.9	211.9	211.9	208.8	208.8	208.8	208.8	208.8	205.6
105°	177.1	186.6	192.9	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1
107.5°	161.3	170.8	177.1	180.3	183.5	183.5	186.6	186.6	186.6	186.6	186.6
110°	145.5	155.0	164.5	167.6	170.8	174.0	174.0	177.1	174.0	174.0	174.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	129.7	142.3	148.7	155.0	158.1	161.3	164.5	164.5	164.5	164.5	164.5
115°	117.0	129.7	136.0	142.3	148.7	151.8	151.8	155.0	155.0	155.0	151.8
117.5°	104.4	117.0	123.4	129.7	132.8	139.2	142.3	142.3	142.3	142.3	139.2
120°	94.9	104.4	110.7	117.0	123.4	126.5	129.7	129.7	129.7	129.7	129.7
122.5°	82.2	91.7	101.2	107.5	110.7	113.9	117.0	117.0	117.0	117.0	117.0
125°	72.7	82.2	88.6	94.9	98.1	104.4	104.4	104.4	104.4	104.4	104.4
127.5°	63.3	72.7	79.1	85.4	88.6	91.7	94.9	94.9	94.9	94.9	94.9
130°	53.8	63.3	69.6	75.9	79.1	82.2	82.2	85.4	85.4	85.4	85.4
132.5°	47.4	53.8	60.1	66.4	69.6	72.7	72.7	75.9	75.9	75.9	75.9
135°	38.0	47.4	50.6	56.9	60.1	63.3	63.3	66.4	66.4	66.4	66.4
137.5°	31.6	38.0	44.3	50.6	53.8	53.8	56.9	56.9	60.1	60.1	60.1
140°	25.3	28.5	38.0	41.1	44.3	47.4	50.6	50.6	50.6	50.6	50.6
142.5°	19.0	25.3	28.5	34.8	38.0	41.1	44.3	44.3	44.3	44.3	44.3
145°	15.8	19.0	22.1	28.5	31.6	34.8	38.0	38.0	38.0	38.0	38.0
147.5°	12.7	15.8	19.0	22.1	25.3	28.5	31.6	31.6	31.6	31.6	31.6
150°	9.5	12.7	15.8	15.8	19.0	22.1	25.3	28.5	28.5	28.5	28.5
152.5°	9.5	9.5	12.7	12.7	15.8	19.0	22.1	22.1	22.1	22.1	22.1
155°	6.3	9.5	9.5	9.5	12.7	12.7	15.8	19.0	19.0	19.0	19.0
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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6123.5	6136.1	6129.8	6120.3	6117.2	6133.0	6117.2	6044.4	6072.9	6076.0	6098.2
5°	6114.0	6123.5	6117.2	6110.8	6101.3	6120.3	6101.3	6025.4	6053.9	6057.1	6079.2
7.5°	6177.3	6180.4	6180.4	6164.6	6139.3	6148.8	6123.5	6038.1	6053.9	6053.9	6069.7
10°	6335.4	6341.7	6351.2	6310.1	6278.5	6253.2	6218.4	6114.0	6110.8	6085.5	6085.5
12.5°	6541.0	6525.2	6509.4	6490.4	6465.1	6433.5	6382.9	6259.5	6218.4	6177.3	6136.1
15°	6601.1	6594.8	6591.6	6582.1	6566.3	6556.8	6518.9	6395.5	6335.4	6284.8	6212.1
17.5°	6442.9	6455.6	6496.7	6499.9	6518.9	6556.8	6550.5	6465.1	6411.3	6389.2	6300.6
20°	6158.3	6161.4	6212.1	6234.2	6316.4	6379.7	6427.1	6417.6	6405.0	6430.3	6363.9
22.5°	5816.7	5838.8	5892.6	5927.4	6006.5	6079.2	6155.1	6196.2	6262.7	6367.0	6354.4
25°	5351.7	5380.2	5456.1	5513.0	5623.7	5734.4	5835.7	5908.4	5987.5	6186.7	6253.2
27.5°	4795.0	4839.3	4937.4	4994.3	5149.3	5263.2	5408.7	5551.0	5661.7	5889.4	6025.4
30°	4209.9	4247.9	4352.2	4431.3	4564.2	4719.1	4902.6	5105.0	5288.5	5519.4	5690.2
32.5°	3662.7	3703.8	3789.2	3858.8	4007.5	4137.2	4339.6	4589.5	4760.3	5079.7	5307.4
35°	3185.1	3223.1	3283.2	3343.2	3466.6	3599.4	3773.4	4017.0	4235.2	4567.3	4855.1
37.5°	2849.8	2856.2	2890.9	2925.7	3017.5	3118.7	3254.7	3469.8	3672.2	4029.6	4345.9
40°	2609.4	2609.4	2628.4	2637.9	2679.0	2739.1	2824.5	2992.2	3159.8	3431.8	3817.7
42.5°	2460.8	2454.5	2454.5	2457.6	2454.5	2482.9	2533.5	2612.6	2761.3	2985.8	3286.3
45°	2350.1	2337.4	2327.9	2305.8	2293.1	2293.1	2296.3	2324.8	2410.2	2555.7	2799.2
47.5°	2226.7	2223.6	2207.7	2182.4	2160.3	2144.5	2119.2	2109.7	2135.0	2217.2	2381.7
50°	2084.4	2068.6	2052.8	2033.8	2008.5	1992.7	1945.2	1948.4	1926.2	1964.2	2049.6
52.5°	1875.6	1863.0	1856.7	1840.8	1831.4	1825.0	1787.1	1749.1	1739.6	1746.0	1777.6
55°	1644.7	1651.1	1625.8	1638.4	1635.3	1606.8	1591.0	1562.5	1553.0	1549.9	1565.7
57.5°	1404.4	1410.7	1394.9	1407.5	1407.5	1391.7	1382.2	1382.2	1360.1	1341.1	1363.2
60°	1186.1	1173.5	1182.9	1198.8	1198.8	1189.3	1182.9	1182.9	1167.1	1160.8	1176.6
62.5°	1009.0	996.3	1005.8	1021.6	1024.8	1018.5	1012.1	1012.1	993.2	993.2	1005.8
65°	873.0	876.1	873.0	885.6	885.6	888.8	882.5	876.1	854.0	863.5	860.3
67.5°	774.9	771.8	771.8	784.4	781.3	787.6	781.3	771.8	755.9	743.3	740.1
70°	692.7	689.5	689.5	695.9	699.0	699.0	695.9	689.5	667.4	654.7	645.2
72.5°	619.9	616.8	619.9	623.1	626.3	629.4	626.3	619.9	601.0	585.1	569.3
75°	553.5	550.4	559.8	559.8	563.0	563.0	566.2	563.0	547.2	528.2	509.2
77.5°	487.1	490.3	499.7	502.9	509.2	512.4	515.6	515.6	499.7	483.9	458.6
80°	433.3	439.7	446.0	449.1	455.5	465.0	468.1	471.3	458.6	442.8	414.3
82.5°	395.4	398.5	404.9	408.0	417.5	420.7	423.8	430.2	423.8	408.0	376.4
85°	363.7	366.9	373.2	373.2	379.6	385.9	389.0	392.2	389.0	373.2	341.6
87.5°	335.3	338.4	341.6	344.8	347.9	351.1	354.3	357.4	354.3	338.4	310.0
90°	310.0	310.0	313.1	313.1	316.3	319.5	325.8	325.8	322.6	310.0	281.5
92.5°	281.5	284.7	284.7	287.8	291.0	294.2	297.3	297.3	294.2	281.5	256.2
95°	262.5	262.5	265.7	265.7	268.9	268.9	272.0	272.0	268.9	256.2	230.9
97.5°	240.4	240.4	240.4	240.4	243.5	243.5	246.7	246.7	243.5	230.9	208.8
100°	221.4	221.4	221.4	221.4	221.4	224.6	224.6	224.6	221.4	208.8	186.6
102.5°	205.6	205.6	205.6	205.6	205.6	205.6	205.6	205.6	199.3	189.8	167.6
105°	196.1	196.1	196.1	192.9	192.9	192.9	189.8	189.8	180.3	170.8	151.8
107.5°	183.5	183.5	183.5	180.3	180.3	177.1	174.0	174.0	164.5	155.0	136.0
110°	174.0	174.0	174.0	170.8	167.6	164.5	161.3	158.1	148.7	136.0	120.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	164.5	164.5	161.3	161.3	158.1	155.0	148.7	145.5	136.0	123.4	107.5
115°	151.8	151.8	151.8	148.7	145.5	142.3	139.2	132.8	123.4	110.7	94.9
117.5°	139.2	139.2	139.2	136.0	132.8	129.7	126.5	120.2	110.7	98.1	85.4
120°	126.5	126.5	126.5	123.4	120.2	117.0	113.9	107.5	98.1	88.6	72.7
122.5°	117.0	117.0	113.9	110.7	107.5	104.4	101.2	94.9	88.6	75.9	63.3
125°	104.4	104.4	101.2	101.2	98.1	94.9	91.7	85.4	75.9	66.4	56.9
127.5°	94.9	91.7	91.7	91.7	88.6	85.4	79.1	75.9	66.4	56.9	47.4
130°	82.2	82.2	82.2	79.1	79.1	75.9	69.6	63.3	56.9	50.6	41.1
132.5°	72.7	72.7	72.7	72.7	69.6	66.4	60.1	56.9	50.6	41.1	34.8
135°	66.4	66.4	63.3	63.3	60.1	56.9	53.8	47.4	41.1	34.8	28.5
137.5°	56.9	56.9	56.9	53.8	53.8	50.6	44.3	41.1	38.0	31.6	25.3
140°	50.6	50.6	47.4	47.4	44.3	44.3	41.1	34.8	31.6	25.3	22.1
142.5°	44.3	44.3	41.1	41.1	38.0	38.0	34.8	31.6	25.3	22.1	15.8
145°	38.0	38.0	34.8	34.8	34.8	31.6	28.5	25.3	22.1	19.0	15.8
147.5°	31.6	31.6	31.6	28.5	28.5	25.3	25.3	22.1	19.0	15.8	12.7
150°	28.5	28.5	25.3	25.3	25.3	22.1	19.0	19.0	15.8	12.7	9.5
152.5°	22.1	22.1	22.1	22.1	19.0	19.0	15.8	15.8	12.7	9.5	9.5
155°	19.0	19.0	19.0	15.8	15.8	15.8	12.7	12.7	9.5	9.5	6.3
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-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5	6123.5
2.5°	6088.7	6085.5	6114.0	6110.8	6072.9	6129.8	6167.8
5°	6072.9	6069.7	6095.0	6101.3	6060.2	6120.3	6161.4
7.5°	6060.2	6057.1	6085.5	6095.0	6053.9	6107.7	6152.0
10°	6063.4	6047.6	6072.9	6079.2	6041.3	6098.2	6136.1
12.5°	6085.5	6047.6	6057.1	6057.1	6022.3	6072.9	6114.0
15°	6139.3	6060.2	6047.6	6038.1	5993.8	6041.3	6082.4
17.5°	6199.4	6091.9	6047.6	6016.0	5962.2	6003.3	6047.6
20°	6259.5	6126.7	6053.9	6003.3	5930.6	5968.5	6000.1
22.5°	6288.0	6158.3	6060.2	5984.3	5892.6	5911.6	5946.4
25°	6250.0	6145.6	6047.6	5955.9	5845.2	5848.3	5876.8
27.5°	6110.8	6082.4	6019.1	5927.4	5807.2	5791.4	5813.5
30°	5873.6	5952.7	5955.9	5889.4	5762.9	5731.3	5740.8
32.5°	5541.5	5718.6	5823.0	5810.4	5699.7	5655.4	5661.7
35°	5158.8	5380.2	5607.9	5683.8	5604.8	5570.0	5557.3
37.5°	4700.2	4997.5	5301.1	5487.7	5475.1	5452.9	5440.3
40°	4194.1	4551.5	4912.1	5209.4	5301.1	5301.1	5307.4
42.5°	3653.2	4070.7	4466.1	4842.5	5057.6	5105.0	5124.0
45°	3131.3	3552.0	3982.2	4415.5	4703.3	4852.0	4905.8
47.5°	2656.9	3080.7	3488.7	3963.2	4345.9	4538.8	4624.2
50°	2252.0	2568.3	2998.5	3469.8	3887.3	4124.5	4292.1
52.5°	1916.8	2163.5	2539.9	2979.5	3400.2	3726.0	3881.0
55°	1635.3	1802.9	2122.3	2501.9	2903.6	3242.0	3422.3
57.5°	1398.0	1530.9	1749.1	2065.4	2403.8	2739.1	2932.1
60°	1189.3	1281.0	1429.7	1679.5	1967.4	2255.2	2441.8
62.5°	1009.0	1069.1	1167.1	1350.6	1575.2	1799.7	1973.7
65°	869.8	895.1	948.9	1062.8	1233.6	1404.4	1553.0
67.5°	733.8	749.6	790.7	860.3	945.7	1069.1	1167.1
70°	632.6	632.6	635.8	676.9	721.2	800.2	869.8
72.5°	550.4	540.9	521.9	531.4	540.9	585.1	629.4
75°	483.9	461.8	430.2	417.5	411.2	417.5	442.8
77.5°	427.0	395.4	357.4	325.8	300.5	291.0	313.1
80°	379.6	341.6	297.3	256.2	215.1	192.9	202.4
82.5°	341.6	294.2	246.7	199.3	151.8	120.2	120.2
85°	300.5	256.2	205.6	155.0	107.5	66.4	60.1
87.5°	272.0	224.6	170.8	123.4	75.9	34.8	19.0
90°	243.5	196.1	145.5	98.1	53.8	15.8	0.0
92.5°	218.2	174.0	126.5	79.1	38.0	9.5	0.0
95°	196.1	155.0	107.5	66.4	31.6	6.3	3.2
97.5°	174.0	136.0	94.9	53.8	22.1	6.3	3.2
100°	158.1	120.2	82.2	44.3	19.0	3.2	3.2
102.5°	139.2	107.5	69.6	38.0	15.8	3.2	3.2
105°	123.4	94.9	60.1	31.6	12.7	3.2	3.2
107.5°	110.7	82.2	53.8	28.5	12.7	3.2	3.2
110°	98.1	72.7	47.4	25.3	9.5	3.2	3.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	88.6	63.3	41.1	22.1	6.3	3.2	3.2
115°	75.9	56.9	34.8	19.0	6.3	3.2	3.2
117.5°	66.4	47.4	31.6	15.8	6.3	3.2	3.2
120°	56.9	41.1	25.3	12.7	3.2	3.2	3.2
122.5°	50.6	34.8	22.1	12.7	3.2	3.2	3.2
125°	44.3	31.6	19.0	9.5	3.2	3.2	3.2
127.5°	38.0	25.3	15.8	6.3	3.2	3.2	3.2
130°	31.6	22.1	12.7	6.3	3.2	3.2	3.2
132.5°	25.3	19.0	12.7	6.3	3.2	3.2	3.2
135°	22.1	15.8	9.5	6.3	3.2	3.2	3.2
137.5°	19.0	12.7	6.3	6.3	6.3	3.2	3.2
140°	15.8	9.5	6.3	6.3	6.3	6.3	3.2
142.5°	12.7	9.5	6.3	6.3	6.3	6.3	3.2
145°	9.5	6.3	6.3	6.3	6.3	6.3	3.2
147.5°	9.5	6.3	6.3	6.3	6.3	6.3	3.2
150°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
152.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
155°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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)