

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-LN-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-LN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

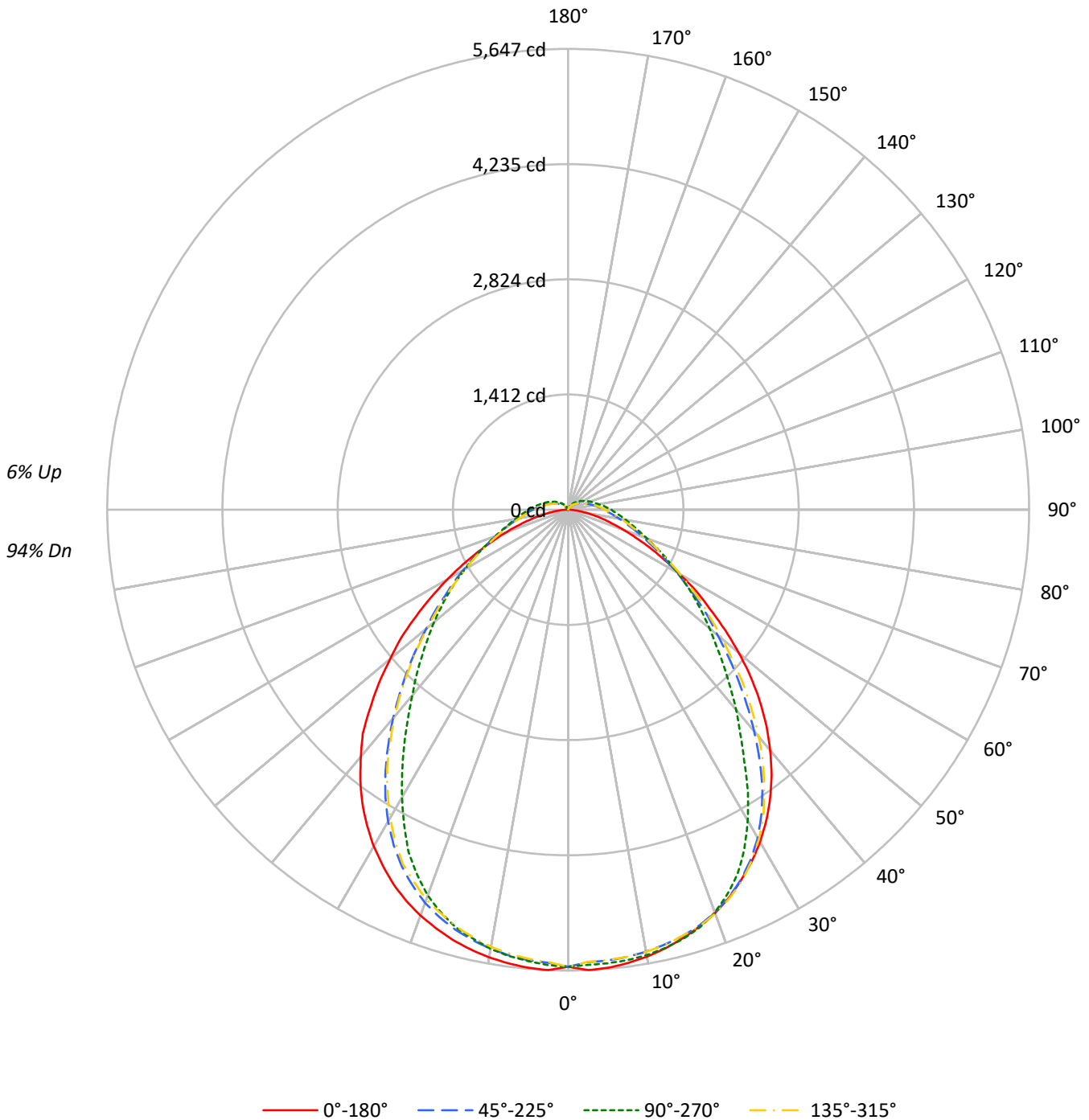
Lumens per Lamp: N/A
Luminaire Lumens: 14173.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

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	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22628	22628	22628	22628
5°	22821	21908	22821	21811
10°	22750	21326	22788	21029
15°	22636	20688	22738	20150
20°	22496	19869	22627	19030
25°	22169	18654	22414	17555
30°	21736	16868	22021	15616
35°	21042	14679	21448	13668
40°	20031	12838	20561	11911
45°	18684	11160	19290	10520
50°	16823	9807	17565	9311
55°	14604	8660	15665	8222
60°	12337	7603	13452	7165
65°	10173	6723	11199	6233
70°	8165	5966	9142	5518
75°	6498	5508	7317	5068
80°	4807	5315	5662	4857
85°	3151	5344	4240	4913



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.0	3.7
10°-20°	1522.4	10.7
20°-30°	2256.3	15.9
30°-40°	2506.7	17.7
40°-50°	2272.3	16.0
50°-60°	1760.8	12.4
60°-70°	1195.7	8.4
70°-80°	760.7	5.4
80°-90°	486.3	3.4
90°-100°	327.9	2.3
100°-110°	224.6	1.6
110°-120°	149.8	1.1
120°-130°	93.2	0.7
130°-140°	51.5	0.4
140°-150°	24.2	0.2
150°-160°	8.9	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	4309.7	30.4
0°-40°	6816.5	48.1
0°-60°	10849.6	76.6
0°-90°	13292.3	93.8
90°-120°	702.3	5.0
90°-150°	871.3	6.1
90°-180°	881.0	6.2
0°-180°	14173.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5600	5600	5600	5600	5600	
5°	5634	5579	5634	5554	5634	535
15°	5434	5443	5459	5302	5434	1534
25°	5009	4916	5064	4627	5009	2307
35°	4313	3758	4396	3499	4313	2690
45°	3321	2686	3429	2532	3321	2550
55°	2119	1888	2273	1793	2119	1908
65°	1100	1269	1211	1177	1100	1103
75°	440	847	496	779	440	474
85°	80	610	108	561	80	96
90°	0	527	6	481	0	5
95°	3	450	0	419	3	3
105°	3	330	0	311	3	3
115°	3	250	0	231	3	3
125°	3	185	3	163	3	3
135°	3	129	3	105	3	2
145°	3	83	3	58	3	2
155°	3	46	3	22	3	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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5646.6	5640.4	5634.2	5625.0	5634.2	5658.9	5643.5	5609.6	5603.4	5548.0	5572.6
5°	5634.2	5625.0	5618.8	5609.6	5621.9	5652.7	5637.3	5606.5	5597.3	5544.9	5572.6
7.5°	5603.4	5597.3	5588.0	5588.0	5600.3	5631.1	5618.8	5584.9	5578.8	5526.4	5557.2
10°	5560.3	5557.2	5551.1	5551.1	5563.4	5600.3	5584.9	5554.1	5548.0	5498.7	5532.6
12.5°	5504.8	5507.9	5498.7	5498.7	5517.2	5554.1	5541.8	5507.9	5501.8	5458.6	5492.5
15°	5434.0	5437.1	5430.9	5434.0	5452.5	5495.6	5480.2	5449.4	5443.2	5409.4	5437.1
17.5°	5353.9	5357.0	5357.0	5353.9	5375.5	5418.6	5406.3	5378.5	5369.3	5341.6	5375.5
20°	5261.5	5261.5	5261.5	5261.5	5286.1	5329.3	5313.9	5292.3	5273.8	5252.2	5280.0
22.5°	5147.5	5144.4	5147.5	5156.8	5181.4	5215.3	5206.0	5181.4	5153.7	5141.4	5162.9
25°	5008.9	5018.1	5021.2	5030.5	5061.3	5089.0	5079.7	5055.1	5012.0	5002.7	5008.9
27.5°	4864.1	4870.3	4879.5	4876.4	4919.6	4947.3	4928.8	4907.2	4845.6	4836.4	4830.2
30°	4700.8	4710.1	4716.2	4713.2	4747.0	4777.9	4759.4	4731.6	4648.5	4642.3	4593.0
32.5°	4516.0	4525.3	4531.4	4531.4	4580.7	4593.0	4559.1	4519.1	4429.8	4408.2	4365.1
35°	4312.7	4321.9	4325.0	4325.0	4374.3	4371.2	4328.1	4272.7	4174.1	4146.3	4072.4
37.5°	4094.0	4100.1	4103.2	4121.7	4143.3	4124.8	4069.3	3998.5	3924.6	3847.5	3767.4
40°	3847.5	3856.8	3862.9	3875.3	3896.8	3875.3	3795.2	3708.9	3628.8	3542.6	3462.5
42.5°	3594.9	3622.7	3616.5	3613.4	3625.7	3567.2	3505.6	3407.0	3326.9	3237.6	3157.5
45°	3320.8	3317.7	3333.1	3339.3	3336.2	3286.9	3200.6	3111.3	3031.2	2938.8	2871.0
47.5°	3031.2	3028.1	3040.5	3046.6	3028.1	2975.8	2908.0	2806.3	2738.6	2658.5	2606.1
50°	2726.2	2726.2	2744.7	2726.2	2717.0	2664.6	2609.2	2507.5	2455.2	2384.3	2353.5
52.5°	2421.3	2449.0	2430.5	2424.4	2415.1	2362.7	2319.6	2236.4	2193.3	2162.5	2125.5
55°	2119.4	2150.2	2137.9	2128.6	2125.5	2082.4	2042.4	1980.8	1953.0	1931.5	1909.9
57.5°	1863.7	1860.6	1854.5	1845.2	1848.3	1814.4	1774.4	1740.5	1728.2	1718.9	1725.1
60°	1568.0	1592.6	1583.4	1586.5	1589.5	1583.4	1549.5	1527.9	1531.0	1534.1	1543.3
62.5°	1324.6	1346.2	1361.6	1349.3	1355.4	1364.7	1346.2	1340.0	1352.3	1364.7	1377.0
65°	1099.7	1121.3	1136.7	1133.6	1152.1	1170.6	1167.5	1173.7	1201.4	1216.8	1232.2
67.5°	896.4	918.0	939.6	942.6	970.4	998.1	1010.4	1032.0	1062.8	1084.3	1102.8
70°	720.8	739.3	764.0	779.4	816.3	853.3	874.9	918.0	936.5	967.3	979.6
72.5°	563.7	579.1	613.0	650.0	680.8	727.0	770.1	807.1	834.8	868.7	884.1
75°	440.5	446.7	483.6	526.8	569.9	622.3	668.5	708.5	745.5	779.4	804.0
77.5°	323.5	332.7	366.6	425.1	474.4	529.8	582.2	625.3	665.4	699.3	733.2
80°	224.9	243.4	280.3	338.9	394.3	455.9	505.2	554.5	597.6	631.5	665.4
82.5°	144.8	160.2	212.6	271.1	329.6	391.2	443.6	492.9	539.1	576.1	606.9
85°	80.1	101.7	154.0	215.6	274.2	335.8	391.2	440.5	486.7	520.6	551.4
87.5°	30.8	61.6	110.9	169.4	228.0	286.5	345.0	391.2	437.4	474.4	502.1
90°	0.0	37.0	83.2	141.7	200.2	258.8	314.2	363.5	406.6	440.5	471.3
92.5°	3.1	24.6	64.7	114.0	169.4	224.9	277.2	326.5	369.7	403.5	431.3
95°	3.1	18.5	52.4	98.6	147.9	200.2	249.5	295.7	335.8	369.7	397.4
97.5°	3.1	12.3	43.1	86.3	129.4	181.7	228.0	271.1	308.0	341.9	363.5
100°	3.1	12.3	37.0	73.9	117.1	163.3	206.4	249.5	283.4	311.1	335.8
102.5°	3.1	9.2	30.8	64.7	104.7	144.8	187.9	228.0	258.8	286.5	311.1
105°	3.1	9.2	27.7	55.4	92.4	132.5	169.4	206.4	240.3	264.9	286.5
107.5°	3.1	6.2	24.6	46.2	80.1	120.1	157.1	187.9	218.7	243.4	264.9
110°	3.1	6.2	21.6	43.1	70.9	107.8	141.7	172.5	200.2	224.9	243.4



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.1	6.2	18.5	40.0	64.7	95.5	129.4	157.1	184.8	206.4	224.9
115°	3.1	6.2	18.5	37.0	58.5	83.2	114.0	144.8	166.3	191.0	206.4
117.5°	3.1	6.2	15.4	30.8	55.4	77.0	104.7	129.4	154.0	175.6	191.0
120°	3.1	6.2	15.4	27.7	49.3	70.9	92.4	117.1	141.7	157.1	172.5
122.5°	3.1	6.2	12.3	27.7	43.1	64.7	83.2	104.7	126.3	144.8	160.2
125°	3.1	6.2	12.3	24.6	40.0	58.5	77.0	92.4	114.0	129.4	144.8
127.5°	3.1	6.2	12.3	21.6	37.0	52.4	70.9	86.3	101.7	117.1	129.4
130°	3.1	6.2	9.2	18.5	33.9	46.2	61.6	80.1	92.4	104.7	117.1
132.5°	3.1	6.2	9.2	18.5	27.7	40.0	55.4	70.9	83.2	95.5	104.7
135°	3.1	6.2	9.2	15.4	24.6	37.0	46.2	61.6	73.9	86.3	95.5
137.5°	3.1	6.2	9.2	15.4	21.6	30.8	40.0	52.4	64.7	73.9	86.3
140°	3.1	6.2	9.2	12.3	18.5	27.7	37.0	43.1	55.4	64.7	73.9
142.5°	3.1	6.2	9.2	12.3	18.5	24.6	30.8	37.0	46.2	55.4	64.7
145°	3.1	6.2	9.2	12.3	15.4	21.6	27.7	33.9	37.0	46.2	52.4
147.5°	3.1	6.2	9.2	12.3	12.3	18.5	24.6	27.7	33.9	37.0	43.1
150°	3.1	6.2	9.2	9.2	12.3	15.4	21.6	24.6	27.7	33.9	37.0
152.5°	3.1	6.2	9.2	9.2	12.3	15.4	18.5	21.6	24.6	27.7	30.8
155°	3.1	6.2	9.2	9.2	9.2	12.3	15.4	18.5	21.6	24.6	27.7
157.5°	6.2	6.2	6.2	9.2	9.2	12.3	12.3	15.4	18.5	18.5	21.6
160°	6.2	6.2	6.2	9.2	9.2	9.2	12.3	12.3	15.4	15.4	18.5
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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5566.5	5575.7	5603.4	5603.4	5597.3	5591.1	5591.1	5581.9	5588.0	5600.3	5594.2
5°	5566.5	5575.7	5603.4	5603.4	5597.3	5591.1	5588.0	5578.8	5588.0	5600.3	5594.2
7.5°	5548.0	5560.3	5588.0	5588.0	5581.9	5578.8	5572.6	5566.5	5575.7	5588.0	5581.9
10°	5523.3	5535.7	5563.4	5563.4	5557.2	5557.2	5548.0	5541.8	5554.1	5563.4	5560.3
12.5°	5486.4	5501.8	5526.4	5523.3	5517.2	5520.3	5511.0	5498.7	5511.0	5520.3	5523.3
15°	5434.0	5452.5	5477.1	5471.0	5461.7	5467.9	5452.5	5443.2	5452.5	5471.0	5467.9
17.5°	5366.2	5378.5	5397.0	5397.0	5387.8	5381.6	5375.5	5366.2	5372.4	5384.7	5387.8
20°	5270.7	5286.1	5295.4	5286.1	5283.1	5273.8	5261.5	5252.2	5264.6	5283.1	5286.1
22.5°	5144.4	5147.5	5169.1	5147.5	5132.1	5129.0	5116.7	5098.2	5116.7	5132.1	5135.2
25°	4987.3	5002.7	4993.5	4956.5	4956.5	4931.9	4925.7	4916.5	4919.6	4947.3	4959.6
27.5°	4787.1	4793.3	4768.6	4737.8	4710.1	4694.7	4673.1	4676.2	4676.2	4713.2	4725.5
30°	4568.4	4534.5	4512.9	4463.6	4442.1	4405.1	4399.0	4399.0	4392.8	4411.3	4466.7
32.5°	4306.5	4260.3	4226.4	4180.2	4143.3	4106.3	4087.8	4097.1	4094.0	4140.2	4158.7
35°	4020.0	3992.3	3921.5	3862.9	3841.4	3785.9	3785.9	3758.2	3776.7	3829.1	3850.6
37.5°	3718.2	3675.0	3616.5	3551.8	3536.4	3493.3	3477.9	3462.5	3502.5	3511.8	3533.3
40°	3410.1	3370.1	3314.6	3253.0	3253.0	3200.6	3200.6	3200.6	3203.7	3222.2	3262.2
42.5°	3117.5	3074.3	3025.0	2981.9	2975.8	2935.7	2935.7	2932.6	2938.8	2954.2	2991.2
45°	2834.1	2800.2	2747.8	2726.2	2729.3	2686.2	2695.4	2686.2	2698.5	2713.9	2726.2
47.5°	2572.2	2550.7	2529.1	2498.3	2489.0	2486.0	2470.6	2458.2	2479.8	2479.8	2498.3
50°	2328.9	2316.5	2304.2	2285.7	2288.8	2276.5	2258.0	2258.0	2273.4	2276.5	2288.8
52.5°	2116.3	2100.9	2085.5	2088.6	2091.7	2085.5	2076.3	2067.0	2076.3	2082.4	2097.8
55°	1903.7	1891.4	1906.8	1900.7	1906.8	1900.7	1894.5	1888.3	1903.7	1894.5	1909.9
57.5°	1712.8	1725.1	1731.2	1718.9	1728.2	1722.0	1725.1	1715.8	1728.2	1734.3	1731.2
60°	1537.2	1555.7	1546.4	1549.5	1561.8	1555.7	1543.3	1552.6	1564.9	1568.0	1564.9
62.5°	1377.0	1398.5	1407.8	1401.6	1404.7	1398.5	1407.8	1395.5	1410.9	1417.0	1407.8
65°	1232.2	1256.8	1263.0	1263.0	1263.0	1256.8	1266.1	1269.2	1275.3	1275.3	1269.2
67.5°	1109.0	1130.5	1136.7	1142.9	1136.7	1130.5	1130.5	1133.6	1145.9	1152.1	1145.9
70°	998.1	1019.6	1022.7	1022.7	1025.8	1032.0	1019.6	1025.8	1035.0	1038.1	1035.0
72.5°	902.6	924.1	930.3	927.2	930.3	933.4	933.4	927.2	936.5	942.6	942.6
75°	825.6	837.9	844.1	844.1	847.1	850.2	850.2	847.1	853.3	856.4	859.5
77.5°	754.7	764.0	773.2	773.2	776.3	773.2	779.4	779.4	782.4	785.5	788.6
80°	683.9	696.2	702.4	705.4	711.6	714.7	714.7	714.7	717.8	720.8	720.8
82.5°	628.4	637.7	646.9	656.1	656.1	659.2	659.2	659.2	662.3	662.3	665.4
85°	573.0	585.3	594.5	600.7	603.8	606.9	606.9	609.9	609.9	609.9	613.0
87.5°	523.7	539.1	545.2	551.4	554.5	560.7	560.7	560.7	563.7	563.7	563.7
90°	489.8	505.2	511.4	517.5	520.6	523.7	523.7	526.8	526.8	529.8	529.8
92.5°	449.8	465.2	477.5	477.5	480.6	486.7	483.6	483.6	486.7	489.8	489.8
95°	418.9	431.3	440.5	443.6	446.7	446.7	446.7	449.8	446.7	449.8	449.8
97.5°	382.0	394.3	403.5	409.7	412.8	412.8	412.8	415.9	412.8	415.9	415.9
100°	351.2	363.5	372.7	375.8	382.0	382.0	382.0	382.0	382.0	382.0	385.1
102.5°	326.5	338.9	345.0	348.1	351.2	354.3	354.3	354.3	354.3	357.3	357.3
105°	301.9	314.2	320.4	323.5	326.5	329.6	329.6	329.6	332.7	332.7	329.6
107.5°	280.3	289.6	295.7	301.9	305.0	305.0	308.0	308.0	308.0	308.0	308.0
110°	258.8	268.0	277.2	283.4	283.4	286.5	286.5	289.6	289.6	286.5	289.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	237.2	249.5	255.7	261.8	264.9	268.0	268.0	268.0	268.0	268.0	268.0
115°	218.7	231.0	237.2	243.4	246.4	249.5	249.5	249.5	249.5	249.5	249.5
117.5°	203.3	215.6	221.8	224.9	228.0	231.0	234.1	234.1	234.1	234.1	231.0
120°	187.9	197.2	203.3	209.5	212.6	215.6	215.6	215.6	215.6	215.6	215.6
122.5°	172.5	181.7	187.9	194.1	197.2	200.2	200.2	200.2	200.2	200.2	200.2
125°	157.1	166.3	172.5	178.7	181.7	184.8	184.8	184.8	184.8	184.8	184.8
127.5°	141.7	150.9	160.2	163.3	166.3	169.4	169.4	169.4	172.5	169.4	169.4
130°	126.3	135.5	144.8	147.9	150.9	154.0	157.1	157.1	157.1	157.1	154.0
132.5°	114.0	123.2	129.4	132.5	138.6	138.6	141.7	141.7	141.7	141.7	138.6
135°	104.7	110.9	117.1	120.1	126.3	126.3	126.3	129.4	129.4	126.3	123.2
137.5°	92.4	98.6	104.7	107.8	110.9	114.0	114.0	117.1	114.0	114.0	114.0
140°	86.3	89.3	95.5	98.6	101.7	101.7	101.7	104.7	104.7	101.7	101.7
142.5°	73.9	80.1	86.3	89.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4
145°	61.6	70.9	73.9	80.1	80.1	83.2	83.2	83.2	83.2	83.2	80.1
147.5°	52.4	58.5	67.8	70.9	70.9	73.9	73.9	73.9	73.9	73.9	70.9
150°	40.0	46.2	55.4	61.6	61.6	64.7	64.7	64.7	64.7	61.6	61.6
152.5°	33.9	40.0	43.1	49.3	52.4	52.4	52.4	55.4	52.4	52.4	52.4
155°	30.8	33.9	37.0	40.0	43.1	46.2	46.2	46.2	46.2	43.1	43.1
157.5°	24.6	27.7	30.8	33.9	37.0	40.0	40.0	40.0	40.0	40.0	37.0
160°	18.5	21.6	24.6	24.6	27.7	30.8	33.9	30.8	30.8	30.8	30.8
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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5588.0	5584.9	5594.2	5578.8	5532.6	5544.9	5538.7	5566.5	5572.6	5578.8	5606.5
5°	5588.0	5584.9	5591.1	5578.8	5529.5	5538.7	5532.6	5560.3	5566.5	5569.5	5597.3
7.5°	5575.7	5572.6	5581.9	5566.5	5514.1	5526.4	5517.2	5544.9	5548.0	5551.1	5575.7
10°	5551.1	5548.0	5554.1	5541.8	5489.4	5501.8	5489.4	5517.2	5517.2	5523.3	5541.8
12.5°	5514.1	5507.9	5520.3	5504.8	5446.3	5461.7	5455.6	5474.0	5477.1	5480.2	5498.7
15°	5461.7	5455.6	5464.8	5455.6	5403.2	5406.3	5397.0	5424.8	5427.8	5421.7	5440.2
17.5°	5384.7	5378.5	5397.0	5390.9	5338.5	5350.8	5347.7	5353.9	5363.1	5347.7	5372.4
20°	5289.2	5295.4	5301.5	5304.6	5264.6	5264.6	5261.5	5273.8	5283.1	5270.7	5289.2
22.5°	5147.5	5162.9	5181.4	5187.6	5159.8	5156.8	5175.2	5169.1	5178.3	5172.2	5184.5
25°	4968.8	4999.6	5018.1	5036.6	5021.2	5027.4	5055.1	5061.3	5061.3	5058.2	5070.5
27.5°	4747.0	4787.1	4821.0	4861.0	4845.6	4857.9	4904.2	4910.3	4922.6	4910.3	4935.0
30°	4482.1	4519.1	4583.8	4642.3	4648.5	4667.0	4731.6	4737.8	4771.7	4759.4	4768.6
32.5°	4217.2	4235.7	4309.6	4368.1	4405.1	4451.3	4522.2	4534.5	4580.7	4589.9	4589.9
35°	3884.5	3936.9	4004.6	4087.8	4134.0	4183.3	4278.8	4297.3	4365.1	4386.6	4411.3
37.5°	3604.2	3653.5	3696.6	3782.9	3866.0	3921.5	3998.5	4044.7	4115.5	4155.6	4186.4
40°	3305.4	3345.4	3391.6	3477.9	3548.7	3631.9	3708.9	3764.4	3853.7	3899.9	3940.0
42.5°	3022.0	3052.8	3102.1	3163.7	3237.6	3330.0	3404.0	3468.6	3564.1	3628.8	3675.0
45°	2769.4	2787.9	2831.0	2877.2	2941.9	3037.4	3108.2	3191.4	3268.4	3336.2	3391.6
47.5°	2532.2	2556.8	2578.4	2609.2	2667.7	2726.2	2809.4	2889.5	2966.5	3040.5	3095.9
50°	2313.5	2313.5	2347.3	2368.9	2408.9	2461.3	2526.0	2581.5	2677.0	2729.3	2800.2
52.5°	2100.9	2113.2	2131.7	2144.0	2174.8	2208.7	2261.1	2307.3	2387.4	2436.7	2504.4
55°	1913.0	1925.3	1934.6	1940.7	1959.2	1999.2	2017.7	2054.7	2110.1	2150.2	2208.7
57.5°	1734.3	1740.5	1749.7	1752.8	1755.9	1780.5	1795.9	1805.2	1860.6	1900.7	1950.0
60°	1571.1	1571.1	1580.3	1577.2	1574.1	1586.5	1583.4	1592.6	1626.5	1651.1	1672.7
62.5°	1417.0	1417.0	1420.1	1413.9	1410.9	1410.9	1398.5	1407.8	1417.0	1420.1	1435.5
65°	1275.3	1290.7	1278.4	1281.5	1263.0	1256.8	1250.7	1232.2	1229.1	1216.8	1223.0
67.5°	1149.0	1161.3	1149.0	1149.0	1133.6	1121.3	1105.9	1075.1	1065.9	1041.2	1035.0
70°	1047.4	1038.1	1044.3	1035.0	1016.6	1001.2	979.6	955.0	924.1	893.3	871.8
72.5°	948.8	948.8	942.6	933.4	924.1	893.3	868.7	841.0	804.0	764.0	733.2
75°	853.3	856.4	856.4	847.1	831.7	804.0	776.3	736.2	696.2	650.0	609.9
77.5°	785.5	785.5	785.5	770.1	754.7	730.1	696.2	653.1	609.9	554.5	508.3
80°	720.8	717.8	717.8	699.3	683.9	656.1	622.3	579.1	532.9	474.4	422.0
82.5°	668.5	665.4	659.2	643.8	622.3	594.5	560.7	514.4	465.2	412.8	348.1
85°	613.0	609.9	603.8	588.4	566.8	542.2	505.2	459.0	409.7	351.2	289.6
87.5°	563.7	560.7	551.4	542.2	517.5	489.8	452.8	409.7	357.3	301.9	240.3
90°	529.8	523.7	517.5	505.2	483.6	452.8	415.9	369.7	317.3	261.8	200.2
92.5°	489.8	486.7	477.5	465.2	446.7	415.9	378.9	335.8	283.4	231.0	172.5
95°	449.8	446.7	440.5	428.2	409.7	382.0	348.1	305.0	255.7	203.3	150.9
97.5°	412.8	412.8	403.5	394.3	372.7	351.2	317.3	277.2	231.0	184.8	135.5
100°	382.0	382.0	372.7	360.4	345.0	323.5	289.6	252.6	209.5	166.3	117.1
102.5°	354.3	351.2	345.0	332.7	317.3	295.7	264.9	231.0	191.0	147.9	104.7
105°	329.6	326.5	320.4	308.0	295.7	271.1	246.4	212.6	172.5	132.5	92.4
107.5°	305.0	301.9	298.8	286.5	271.1	249.5	224.9	191.0	157.1	120.1	83.2
110°	283.4	280.3	274.2	261.8	246.4	228.0	203.3	175.6	141.7	107.8	73.9



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	264.9	261.8	255.7	243.4	231.0	209.5	187.9	157.1	129.4	98.6	64.7
115°	246.4	243.4	237.2	224.9	209.5	191.0	169.4	144.8	114.0	86.3	58.5
117.5°	228.0	224.9	218.7	209.5	194.1	175.6	154.0	129.4	101.7	80.1	52.4
120°	212.6	206.4	200.2	191.0	175.6	160.2	138.6	117.1	92.4	70.9	46.2
122.5°	197.2	191.0	184.8	175.6	160.2	144.8	123.2	104.7	86.3	64.7	43.1
125°	178.7	175.6	169.4	160.2	144.8	129.4	114.0	95.5	77.0	58.5	37.0
127.5°	163.3	160.2	154.0	141.7	129.4	117.1	101.7	86.3	67.8	49.3	33.9
130°	150.9	144.8	138.6	129.4	120.1	107.8	92.4	77.0	61.6	43.1	30.8
132.5°	135.5	129.4	123.2	117.1	107.8	95.5	83.2	67.8	55.4	40.0	27.7
135°	123.2	117.1	110.9	104.7	95.5	86.3	73.9	61.6	49.3	37.0	24.6
137.5°	107.8	104.7	101.7	95.5	86.3	77.0	67.8	52.4	43.1	33.9	21.6
140°	98.6	95.5	92.4	83.2	77.0	67.8	58.5	46.2	37.0	27.7	18.5
142.5°	89.3	86.3	80.1	73.9	67.8	61.6	49.3	43.1	33.9	24.6	18.5
145°	77.0	73.9	70.9	64.7	58.5	49.3	43.1	37.0	30.8	21.6	15.4
147.5°	70.9	67.8	61.6	55.4	49.3	43.1	40.0	33.9	24.6	18.5	12.3
150°	58.5	55.4	52.4	46.2	43.1	40.0	33.9	27.7	21.6	15.4	12.3
152.5°	49.3	46.2	43.1	43.1	37.0	33.9	27.7	24.6	18.5	15.4	9.2
155°	43.1	43.1	40.0	37.0	30.8	27.7	24.6	18.5	15.4	12.3	9.2
157.5°	37.0	33.9	30.8	30.8	27.7	24.6	18.5	15.4	12.3	12.3	9.2
160°	30.8	27.7	27.7	24.6	21.6	18.5	15.4	15.4	12.3	9.2	9.2
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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5609.6	5575.7	5606.5	5646.6	5646.6	5640.4	5634.2	5646.6	5677.4	5665.0	5628.1
5°	5600.3	5566.5	5594.2	5634.2	5634.2	5625.0	5618.8	5628.1	5662.0	5646.6	5612.7
7.5°	5581.9	5551.1	5569.5	5606.5	5606.5	5597.3	5591.1	5603.4	5631.1	5615.7	5578.8
10°	5548.0	5514.1	5535.7	5569.5	5566.5	5560.3	5551.1	5566.5	5591.1	5569.5	5526.4
12.5°	5504.8	5471.0	5489.4	5520.3	5517.2	5504.8	5498.7	5507.9	5529.5	5517.2	5471.0
15°	5446.3	5412.4	5427.8	5458.6	5449.4	5440.2	5427.8	5430.9	5458.6	5437.1	5387.8
17.5°	5375.5	5338.5	5350.8	5378.5	5369.3	5360.1	5344.7	5347.7	5378.5	5347.7	5295.4
20°	5289.2	5249.2	5258.4	5292.3	5276.9	5261.5	5246.1	5246.1	5276.9	5243.0	5184.5
22.5°	5196.8	5156.8	5162.9	5187.6	5175.2	5147.5	5132.1	5141.4	5156.8	5113.6	5052.0
25°	5082.8	5030.5	5039.7	5064.3	5055.1	5018.1	5002.7	5008.9	5002.7	4968.8	4904.2
27.5°	4950.4	4894.9	4901.1	4916.5	4904.2	4870.3	4851.8	4854.9	4842.5	4799.4	4725.5
30°	4784.0	4756.3	4753.2	4762.4	4744.0	4710.1	4688.5	4682.4	4679.3	4617.7	4528.3
32.5°	4614.6	4589.9	4574.5	4586.9	4565.3	4531.4	4494.4	4494.4	4463.6	4405.1	4328.1
35°	4442.1	4402.0	4386.6	4395.9	4371.2	4328.1	4297.3	4281.9	4235.7	4161.8	4078.6
37.5°	4220.3	4192.6	4174.1	4183.3	4155.6	4124.8	4066.3	4050.9	4001.6	3899.9	3795.2
40°	3980.0	3958.4	3940.0	3949.2	3918.4	3872.2	3819.8	3795.2	3739.7	3625.7	3542.6
42.5°	3721.2	3712.0	3690.4	3724.3	3662.7	3616.5	3564.1	3524.1	3468.6	3345.4	3249.9
45°	3447.1	3468.6	3419.4	3428.6	3388.5	3348.5	3293.1	3234.5	3179.1	3062.0	2954.2
47.5°	3157.5	3172.9	3139.0	3145.2	3102.1	3065.1	3015.8	2941.9	2880.3	2778.6	2683.1
50°	2858.7	2852.5	2852.5	2846.4	2812.5	2766.3	2717.0	2649.2	2587.6	2495.2	2415.1
52.5°	2541.4	2553.7	2559.9	2575.3	2532.2	2504.4	2427.4	2368.9	2322.7	2227.2	2159.4
55°	2236.4	2279.6	2267.2	2273.4	2224.1	2202.6	2140.9	2094.7	2027.0	1971.5	1928.4
57.5°	1959.2	1968.4	1974.6	1983.8	1962.3	1919.2	1869.9	1832.9	1780.5	1734.3	1703.5
60°	1691.2	1691.2	1694.3	1709.7	1688.1	1651.1	1614.2	1586.5	1549.5	1521.8	1503.3
62.5°	1438.6	1460.2	1463.2	1450.9	1423.2	1404.7	1380.1	1364.7	1340.0	1330.8	1324.6
65°	1204.5	1204.5	1204.5	1210.6	1195.2	1182.9	1167.5	1164.4	1173.7	1161.3	1167.5
67.5°	1007.3	998.1	991.9	995.0	988.8	982.7	979.6	988.8	1007.3	1007.3	1022.7
70°	837.9	819.4	807.1	807.1	807.1	810.2	819.4	837.9	868.7	881.0	902.6
72.5°	699.3	659.2	640.7	640.7	643.8	656.1	683.9	717.8	745.5	770.1	797.8
75°	566.8	526.8	499.0	496.0	502.1	520.6	560.7	591.5	637.7	671.5	705.4
77.5°	459.0	409.7	375.8	372.7	382.0	409.7	459.0	499.0	551.4	588.4	625.3
80°	366.6	311.1	283.4	264.9	280.3	314.2	369.7	418.9	468.2	517.5	563.7
82.5°	292.6	240.3	197.2	178.7	197.2	243.4	295.7	354.3	403.5	455.9	502.1
85°	231.0	175.6	126.3	107.8	129.4	178.7	237.2	295.7	351.2	403.5	449.8
87.5°	181.7	126.3	77.0	52.4	80.1	132.5	187.9	246.4	305.0	357.3	403.5
90°	141.7	89.3	43.1	6.2	46.2	95.5	150.9	206.4	264.9	317.3	363.5
92.5°	120.1	67.8	24.6	0.0	27.7	70.9	123.2	178.7	231.0	283.4	329.6
95°	101.7	55.4	18.5	0.0	18.5	55.4	101.7	150.9	203.3	255.7	301.9
97.5°	86.3	43.1	12.3	0.0	12.3	43.1	83.2	132.5	178.7	228.0	271.1
100°	73.9	37.0	9.2	0.0	9.2	33.9	70.9	114.0	160.2	206.4	246.4
102.5°	64.7	30.8	6.2	0.0	6.2	27.7	58.5	98.6	138.6	181.7	221.8
105°	55.4	24.6	6.2	0.0	3.1	21.6	49.3	86.3	123.2	163.3	200.2
107.5°	49.3	21.6	6.2	0.0	3.1	18.5	43.1	73.9	110.9	144.8	178.7
110°	43.1	18.5	6.2	0.0	3.1	12.3	37.0	64.7	95.5	129.4	163.3



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	37.0	15.4	3.1	0.0	0.0	9.2	30.8	55.4	83.2	117.1	144.8
115°	33.9	15.4	3.1	0.0	0.0	6.2	24.6	49.3	73.9	104.7	129.4
117.5°	30.8	12.3	3.1	0.0	3.1	6.2	21.6	43.1	64.7	89.3	117.1
120°	27.7	12.3	3.1	0.0	3.1	3.1	15.4	37.0	55.4	80.1	101.7
122.5°	24.6	12.3	3.1	0.0	3.1	3.1	12.3	30.8	49.3	70.9	89.3
125°	21.6	9.2	6.2	3.1	3.1	3.1	9.2	24.6	43.1	58.5	80.1
127.5°	21.6	9.2	6.2	3.1	3.1	3.1	6.2	21.6	33.9	52.4	70.9
130°	18.5	9.2	6.2	3.1	3.1	3.1	3.1	15.4	30.8	43.1	58.5
132.5°	15.4	9.2	6.2	3.1	3.1	3.1	3.1	9.2	21.6	37.0	49.3
135°	15.4	9.2	6.2	3.1	3.1	3.1	3.1	6.2	15.4	27.7	40.0
137.5°	12.3	6.2	6.2	3.1	3.1	3.1	3.1	3.1	12.3	21.6	30.8
140°	12.3	6.2	6.2	3.1	3.1	3.1	3.1	3.1	9.2	15.4	24.6
142.5°	9.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	6.2	12.3	18.5
145°	9.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	6.2	12.3
147.5°	9.2	9.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	6.2	9.2
150°	9.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2
152.5°	9.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2
155°	9.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2
157.5°	9.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2
160°	9.2	6.2	6.2	3.1	6.2	3.1	6.2	6.2	6.2	6.2	6.2
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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5615.7	5557.2	5588.0	5578.8	5591.1	5615.7	5612.7	5606.5	5606.5	5597.3	5584.9
5°	5597.3	5541.8	5569.5	5554.1	5569.5	5591.1	5588.0	5578.8	5584.9	5569.5	5554.1
7.5°	5560.3	5511.0	5535.7	5523.3	5535.7	5557.2	5548.0	5544.9	5551.1	5526.4	5517.2
10°	5517.2	5461.7	5489.4	5474.0	5489.4	5504.8	5498.7	5486.4	5498.7	5474.0	5464.8
12.5°	5449.4	5403.2	5421.7	5415.5	5424.8	5440.2	5427.8	5418.6	5424.8	5403.2	5384.7
15°	5375.5	5329.3	5344.7	5335.4	5341.6	5360.1	5338.5	5335.4	5329.3	5307.7	5301.5
17.5°	5280.0	5236.8	5252.2	5236.8	5246.1	5239.9	5236.8	5221.4	5221.4	5196.8	5178.3
20°	5162.9	5125.9	5116.7	5104.4	5116.7	5104.4	5085.9	5073.6	5070.5	5045.9	5030.5
22.5°	5027.4	4984.2	4990.4	4956.5	4959.6	4941.1	4910.3	4898.0	4885.7	4857.9	4836.4
25°	4864.1	4821.0	4790.2	4768.6	4740.9	4737.8	4697.8	4667.0	4663.9	4630.0	4626.9
27.5°	4679.3	4630.0	4605.3	4553.0	4519.1	4491.4	4457.5	4426.7	4411.3	4374.3	4349.7
30°	4466.7	4411.3	4349.7	4312.7	4260.3	4238.8	4180.2	4143.3	4130.9	4090.9	4072.4
32.5°	4226.4	4167.9	4118.6	4047.8	3989.2	3958.4	3899.9	3862.9	3847.5	3804.4	3779.8
35°	3964.6	3899.9	3841.4	3773.6	3727.4	3675.0	3604.2	3567.2	3533.3	3517.9	3499.4
37.5°	3690.4	3619.6	3551.8	3484.0	3444.0	3382.4	3320.8	3296.1	3256.1	3240.7	3222.2
40°	3407.0	3336.2	3271.5	3206.8	3160.6	3105.1	3049.7	3040.5	2997.3	2981.9	2969.6
42.5°	3126.7	3052.8	2978.8	2932.6	2898.7	2843.3	2806.3	2797.1	2760.1	2750.9	2750.9
45°	2874.1	2781.7	2720.1	2680.0	2652.3	2606.1	2575.3	2569.1	2538.3	2532.2	2532.2
47.5°	2603.0	2516.8	2470.6	2445.9	2421.3	2387.4	2368.9	2368.9	2338.1	2331.9	2328.9
50°	2350.4	2270.3	2236.4	2211.8	2208.7	2184.1	2168.7	2162.5	2162.5	2140.9	2144.0
52.5°	2110.1	2070.1	2042.4	2027.0	2008.5	1993.1	1980.8	1980.8	1971.5	1956.1	1962.3
55°	1888.3	1842.1	1845.2	1832.9	1823.7	1814.4	1817.5	1799.0	1795.9	1783.6	1792.8
57.5°	1666.5	1666.5	1660.4	1651.1	1635.7	1641.9	1641.9	1641.9	1626.5	1617.3	1626.5
60°	1478.6	1487.9	1472.5	1481.7	1475.6	1478.6	1472.5	1472.5	1463.2	1460.2	1463.2
62.5°	1312.3	1327.7	1321.5	1333.9	1327.7	1330.8	1336.9	1324.6	1318.5	1312.3	1318.5
65°	1164.4	1182.9	1179.8	1189.1	1192.2	1195.2	1198.3	1192.2	1186.0	1179.8	1176.8
67.5°	1035.0	1053.5	1065.9	1068.9	1072.0	1081.3	1078.2	1072.0	1065.9	1056.6	1053.5
70°	918.0	942.6	958.0	964.2	976.5	970.4	970.4	967.3	961.1	951.9	948.8
72.5°	819.4	847.1	862.5	868.7	881.0	881.0	877.9	874.9	868.7	859.5	856.4
75°	733.2	757.8	779.4	791.7	800.9	800.9	797.8	794.8	788.6	782.4	779.4
77.5°	665.4	687.0	705.4	720.8	727.0	730.1	727.0	720.8	720.8	717.8	714.7
80°	597.6	622.3	640.7	656.1	665.4	665.4	662.3	665.4	659.2	656.1	653.1
82.5°	539.1	566.8	588.4	603.8	609.9	613.0	609.9	613.0	606.9	606.9	606.9
85°	486.7	514.4	539.1	551.4	560.7	563.7	563.7	563.7	560.7	560.7	560.7
87.5°	443.6	471.3	496.0	508.3	517.5	520.6	520.6	523.7	517.5	517.5	517.5
90°	403.5	431.3	455.9	468.2	477.5	483.6	483.6	486.7	483.6	480.6	480.6
92.5°	366.6	397.4	422.0	434.4	443.6	452.8	452.8	455.9	449.8	449.8	449.8
95°	335.8	366.6	388.1	403.5	412.8	418.9	422.0	422.0	418.9	418.9	418.9
97.5°	308.0	335.8	357.3	372.7	382.0	385.1	388.1	391.2	388.1	388.1	388.1
100°	280.3	308.0	329.6	341.9	354.3	357.3	360.4	363.5	363.5	360.4	360.4
102.5°	255.7	283.4	301.9	317.3	326.5	332.7	335.8	335.8	335.8	335.8	335.8
105°	231.0	258.8	277.2	292.6	301.9	308.0	311.1	314.2	314.2	311.1	311.1
107.5°	209.5	234.1	255.7	268.0	280.3	286.5	289.6	289.6	292.6	289.6	289.6
110°	187.9	215.6	234.1	246.4	258.8	264.9	268.0	271.1	271.1	271.1	271.1



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	172.5	194.1	212.6	224.9	237.2	243.4	246.4	249.5	252.6	249.5	249.5
115°	154.0	175.6	194.1	206.4	215.6	221.8	228.0	231.0	231.0	234.1	231.0
117.5°	138.6	157.1	175.6	187.9	197.2	206.4	209.5	212.6	215.6	212.6	212.6
120°	123.2	141.7	157.1	169.4	178.7	187.9	191.0	194.1	197.2	194.1	194.1
122.5°	110.9	126.3	141.7	154.0	163.3	169.4	175.6	175.6	178.7	178.7	178.7
125°	98.6	114.0	126.3	138.6	147.9	154.0	157.1	160.2	160.2	163.3	163.3
127.5°	86.3	98.6	114.0	123.2	132.5	138.6	141.7	144.8	144.8	147.9	147.9
130°	73.9	86.3	98.6	107.8	117.1	123.2	126.3	129.4	132.5	132.5	132.5
132.5°	64.7	77.0	86.3	95.5	101.7	107.8	114.0	117.1	117.1	117.1	117.1
135°	52.4	64.7	73.9	83.2	89.3	95.5	98.6	104.7	104.7	104.7	104.7
137.5°	43.1	55.4	64.7	70.9	77.0	83.2	86.3	89.3	92.4	92.4	92.4
140°	33.9	43.1	52.4	61.6	67.8	70.9	77.0	77.0	80.1	80.1	80.1
142.5°	24.6	33.9	40.0	49.3	55.4	61.6	64.7	67.8	67.8	67.8	67.8
145°	18.5	24.6	30.8	37.0	46.2	49.3	52.4	55.4	58.5	58.5	58.5
147.5°	12.3	18.5	21.6	27.7	33.9	40.0	43.1	46.2	49.3	49.3	49.3
150°	9.2	12.3	18.5	21.6	24.6	30.8	37.0	37.0	40.0	40.0	37.0
152.5°	6.2	9.2	12.3	15.4	18.5	21.6	27.7	27.7	30.8	30.8	30.8
155°	6.2	6.2	6.2	9.2	12.3	15.4	18.5	21.6	21.6	21.6	21.6
157.5°	6.2	6.2	6.2	6.2	6.2	9.2	12.3	15.4	15.4	15.4	15.4
160°	6.2	6.2	3.1	3.1	6.2	6.2	6.2	6.2	9.2	9.2	9.2
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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5594.2	5600.3	5600.3	5594.2	5591.1	5603.4	5588.0	5529.5	5548.0	5554.1	5572.6
5°	5566.5	5572.6	5572.6	5572.6	5566.5	5578.8	5563.4	5504.8	5526.4	5535.7	5548.0
7.5°	5526.4	5529.5	5535.7	5532.6	5526.4	5544.9	5529.5	5471.0	5486.4	5501.8	5517.2
10°	5474.0	5474.0	5477.1	5483.3	5477.1	5492.5	5477.1	5424.8	5440.2	5449.4	5467.9
12.5°	5403.2	5409.4	5412.4	5409.4	5406.3	5418.6	5412.4	5363.1	5369.3	5387.8	5406.3
15°	5307.7	5307.7	5323.1	5316.9	5316.9	5329.3	5335.4	5280.0	5289.2	5316.9	5335.4
17.5°	5190.6	5193.7	5206.0	5212.2	5209.1	5230.7	5233.8	5190.6	5187.6	5221.4	5239.9
20°	5039.7	5045.9	5061.3	5073.6	5073.6	5098.2	5107.5	5079.7	5082.8	5119.8	5125.9
22.5°	4854.9	4854.9	4882.6	4901.1	4916.5	4931.9	4959.6	4935.0	4935.0	4984.2	5012.0
25°	4626.9	4648.5	4657.7	4694.7	4716.2	4759.4	4784.0	4787.1	4790.2	4836.4	4854.9
27.5°	4374.3	4380.5	4408.2	4451.3	4476.0	4516.0	4562.2	4571.5	4586.9	4648.5	4676.2
30°	4087.8	4106.3	4118.6	4180.2	4214.1	4266.5	4325.0	4346.6	4358.9	4442.1	4476.0
32.5°	3795.2	3801.3	3853.7	3887.6	3927.6	3983.1	4050.9	4090.9	4115.5	4201.8	4251.1
35°	3502.5	3514.8	3558.0	3601.1	3641.1	3696.6	3767.4	3822.9	3866.0	3943.0	4007.7
37.5°	3234.5	3265.3	3274.6	3317.7	3348.5	3404.0	3453.2	3533.3	3576.5	3656.6	3739.7
40°	2994.2	3003.5	3009.6	3052.8	3074.3	3126.7	3197.6	3249.9	3308.5	3367.0	3465.6
42.5°	2757.0	2763.2	2772.4	2797.1	2821.7	2858.7	2911.1	2963.4	3025.0	3111.3	3176.0
45°	2538.3	2544.5	2550.7	2566.1	2587.6	2621.5	2655.4	2692.4	2754.0	2827.9	2895.7
47.5°	2335.0	2347.3	2347.3	2350.4	2365.8	2393.5	2418.2	2464.4	2498.3	2538.3	2615.3
50°	2140.9	2150.2	2153.3	2153.3	2162.5	2181.0	2187.2	2218.0	2248.8	2285.7	2341.2
52.5°	1959.2	1959.2	1956.1	1968.4	1968.4	1980.8	1983.8	2002.3	2023.9	2063.9	2088.6
55°	1786.7	1786.7	1795.9	1789.8	1789.8	1795.9	1792.8	1795.9	1814.4	1839.1	1860.6
57.5°	1620.3	1617.3	1626.5	1620.3	1617.3	1623.4	1629.6	1617.3	1620.3	1645.0	1645.0
60°	1454.0	1457.1	1466.3	1460.2	1460.2	1460.2	1454.0	1447.8	1441.7	1457.1	1463.2
62.5°	1321.5	1312.3	1321.5	1312.3	1318.5	1315.4	1309.2	1296.9	1300.0	1293.8	1287.6
65°	1182.9	1182.9	1186.0	1176.8	1182.9	1182.9	1173.7	1170.6	1152.1	1145.9	1130.5
67.5°	1062.8	1062.8	1065.9	1059.7	1059.7	1062.8	1053.5	1044.3	1025.8	1016.6	995.0
70°	958.0	958.0	958.0	955.0	955.0	955.0	948.8	936.5	918.0	902.6	874.9
72.5°	862.5	865.6	862.5	862.5	871.8	862.5	853.3	841.0	825.6	794.8	770.1
75°	785.5	788.6	785.5	785.5	785.5	782.4	779.4	760.9	742.4	717.8	680.8
77.5°	717.8	717.8	720.8	717.8	717.8	714.7	705.4	690.0	668.5	646.9	603.8
80°	653.1	656.1	659.2	662.3	656.1	653.1	643.8	631.5	603.8	579.1	536.0
82.5°	606.9	603.8	606.9	609.9	603.8	600.7	591.5	576.1	554.5	520.6	477.5
85°	560.7	557.6	557.6	560.7	557.6	551.4	542.2	526.8	505.2	471.3	428.2
87.5°	514.4	517.5	520.6	517.5	514.4	508.3	499.0	483.6	459.0	431.3	385.1
90°	480.6	480.6	480.6	480.6	477.5	471.3	462.1	443.6	422.0	388.1	348.1
92.5°	449.8	449.8	449.8	449.8	446.7	437.4	428.2	412.8	388.1	354.3	317.3
95°	418.9	422.0	418.9	418.9	412.8	409.7	394.3	378.9	357.3	323.5	283.4
97.5°	385.1	388.1	385.1	385.1	382.0	375.8	366.6	348.1	326.5	295.7	258.8
100°	360.4	360.4	357.3	357.3	354.3	348.1	335.8	320.4	298.8	268.0	231.0
102.5°	332.7	335.8	332.7	332.7	326.5	320.4	311.1	295.7	274.2	243.4	209.5
105°	311.1	311.1	308.0	308.0	301.9	295.7	286.5	268.0	249.5	221.8	187.9
107.5°	289.6	289.6	286.5	286.5	280.3	274.2	261.8	246.4	228.0	200.2	169.4
110°	268.0	268.0	268.0	264.9	258.8	249.5	240.3	224.9	206.4	181.7	150.9



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	252.6	249.5	246.4	243.4	237.2	231.0	218.7	203.3	184.8	163.3	135.5
115°	231.0	231.0	228.0	224.9	218.7	209.5	200.2	187.9	169.4	144.8	120.1
117.5°	212.6	212.6	209.5	206.4	200.2	191.0	181.7	169.4	150.9	129.4	107.8
120°	194.1	194.1	191.0	187.9	181.7	172.5	166.3	150.9	135.5	114.0	95.5
122.5°	178.7	175.6	175.6	169.4	166.3	157.1	147.9	135.5	120.1	101.7	83.2
125°	160.2	160.2	157.1	154.0	150.9	141.7	132.5	120.1	104.7	89.3	73.9
127.5°	144.8	144.8	141.7	138.6	135.5	126.3	117.1	107.8	92.4	77.0	61.6
130°	129.4	129.4	126.3	123.2	120.1	110.9	104.7	92.4	80.1	67.8	52.4
132.5°	117.1	117.1	114.0	110.9	104.7	98.6	92.4	80.1	70.9	58.5	46.2
135°	104.7	101.7	101.7	98.6	92.4	86.3	80.1	70.9	58.5	49.3	37.0
137.5°	92.4	89.3	86.3	83.2	80.1	73.9	67.8	61.6	52.4	40.0	30.8
140°	80.1	77.0	77.0	73.9	67.8	64.7	58.5	49.3	43.1	33.9	24.6
142.5°	67.8	67.8	64.7	61.6	58.5	55.4	49.3	43.1	33.9	27.7	18.5
145°	58.5	55.4	55.4	52.4	49.3	43.1	40.0	33.9	27.7	21.6	15.4
147.5°	46.2	46.2	46.2	43.1	40.0	37.0	33.9	27.7	21.6	15.4	9.2
150°	37.0	37.0	37.0	33.9	30.8	27.7	24.6	21.6	15.4	9.2	6.2
152.5°	30.8	30.8	27.7	27.7	24.6	21.6	18.5	15.4	9.2	6.2	6.2
155°	21.6	21.6	21.6	18.5	18.5	15.4	12.3	9.2	6.2	6.2	6.2
157.5°	15.4	15.4	15.4	12.3	12.3	9.2	9.2	6.2	6.2	6.2	6.2
160°	9.2	9.2	9.2	9.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5563.4	5560.3	5584.9	5584.9	5557.2	5600.3	5646.6
5°	5544.9	5541.8	5566.5	5566.5	5541.8	5584.9	5634.2
7.5°	5507.9	5511.0	5535.7	5541.8	5511.0	5551.1	5603.4
10°	5467.9	5464.8	5492.5	5498.7	5474.0	5511.0	5560.3
12.5°	5403.2	5403.2	5430.9	5440.2	5415.5	5458.6	5504.8
15°	5335.4	5335.4	5353.9	5369.3	5347.7	5387.8	5434.0
17.5°	5249.2	5246.1	5264.6	5283.1	5261.5	5304.6	5353.9
20°	5138.3	5138.3	5159.8	5181.4	5166.0	5206.0	5261.5
22.5°	5021.2	5008.9	5045.9	5061.3	5052.0	5092.1	5147.5
25°	4873.3	4870.3	4907.2	4928.8	4916.5	4959.6	5008.9
27.5°	4713.2	4710.1	4747.0	4774.8	4768.6	4808.7	4864.1
30°	4519.1	4534.5	4568.4	4614.6	4599.2	4642.3	4700.8
32.5°	4315.8	4331.2	4371.2	4420.5	4423.6	4457.5	4516.0
35°	4072.4	4112.5	4140.2	4204.9	4217.2	4251.1	4312.7
37.5°	3816.7	3862.9	3921.5	3970.8	3995.4	4023.1	4094.0
40°	3530.3	3598.0	3662.7	3721.2	3752.0	3779.8	3847.5
42.5°	3271.5	3323.9	3385.5	3444.0	3499.4	3524.1	3594.9
45°	2978.8	3040.5	3095.9	3166.8	3222.2	3249.9	3320.8
47.5°	2692.4	2754.0	2827.9	2877.2	2935.7	2963.4	3031.2
50°	2418.2	2473.6	2535.2	2593.8	2643.1	2667.7	2726.2
52.5°	2147.1	2205.6	2264.2	2301.1	2353.5	2372.0	2421.3
55°	1906.8	1946.9	1999.2	2020.8	2073.2	2085.5	2119.4
57.5°	1675.8	1703.5	1722.0	1759.0	1795.9	1823.7	1863.7
60°	1466.3	1478.6	1491.0	1512.5	1543.3	1552.6	1568.0
62.5°	1278.4	1275.3	1300.0	1306.1	1309.2	1340.0	1324.6
65°	1112.1	1115.1	1093.6	1084.3	1096.7	1105.9	1099.7
67.5°	973.4	955.0	936.5	914.9	896.4	905.7	896.4
70°	837.9	822.5	791.7	760.9	748.6	730.1	720.8
72.5°	730.1	693.1	662.3	622.3	600.7	579.1	563.7
75°	646.9	594.5	551.4	508.3	477.5	446.7	440.5
77.5°	560.7	511.4	462.1	415.9	369.7	335.8	323.5
80°	492.9	446.7	388.1	332.7	283.4	240.3	224.9
82.5°	431.3	382.0	323.5	264.9	209.5	163.3	144.8
85°	378.9	326.5	268.0	209.5	154.0	104.7	80.1
87.5°	338.9	280.3	221.8	166.3	107.8	58.5	30.8
90°	301.9	246.4	191.0	132.5	77.0	30.8	0.0
92.5°	268.0	215.6	160.2	107.8	58.5	18.5	3.1
95°	237.2	191.0	135.5	86.3	43.1	12.3	3.1
97.5°	212.6	166.3	117.1	70.9	33.9	9.2	3.1
100°	191.0	144.8	101.7	58.5	27.7	6.2	3.1
102.5°	169.4	129.4	86.3	49.3	21.6	3.1	3.1
105°	150.9	114.0	73.9	43.1	18.5	3.1	3.1
107.5°	135.5	101.7	64.7	37.0	12.3	3.1	3.1
110°	120.1	86.3	55.4	30.8	9.2	3.1	3.1



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	107.8	77.0	49.3	24.6	6.2	3.1	3.1
115°	95.5	67.8	43.1	21.6	6.2	3.1	3.1
117.5°	83.2	58.5	37.0	15.4	3.1	3.1	3.1
120°	73.9	52.4	30.8	12.3	3.1	3.1	3.1
122.5°	64.7	43.1	24.6	9.2	3.1	3.1	3.1
125°	55.4	37.0	21.6	6.2	3.1	3.1	3.1
127.5°	46.2	30.8	15.4	6.2	3.1	3.1	3.1
130°	40.0	24.6	12.3	3.1	3.1	3.1	3.1
132.5°	33.9	18.5	9.2	3.1	3.1	3.1	3.1
135°	27.7	15.4	6.2	3.1	3.1	3.1	3.1
137.5°	21.6	12.3	6.2	3.1	3.1	3.1	3.1
140°	15.4	9.2	3.1	3.1	3.1	3.1	3.1
142.5°	12.3	6.2	3.1	3.1	3.1	3.1	3.1
145°	9.2	6.2	3.1	3.1	3.1	3.1	3.1
147.5°	6.2	6.2	6.2	6.2	3.1	3.1	3.1
150°	6.2	6.2	3.1	3.1	6.2	3.1	3.1
152.5°	6.2	3.1	3.1	3.1	6.2	3.1	3.1
155°	6.2	6.2	6.2	6.2	6.2	6.2	3.1
157.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2
160°	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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)