

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-LD5-128SL-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-LD5-128SL-LN-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

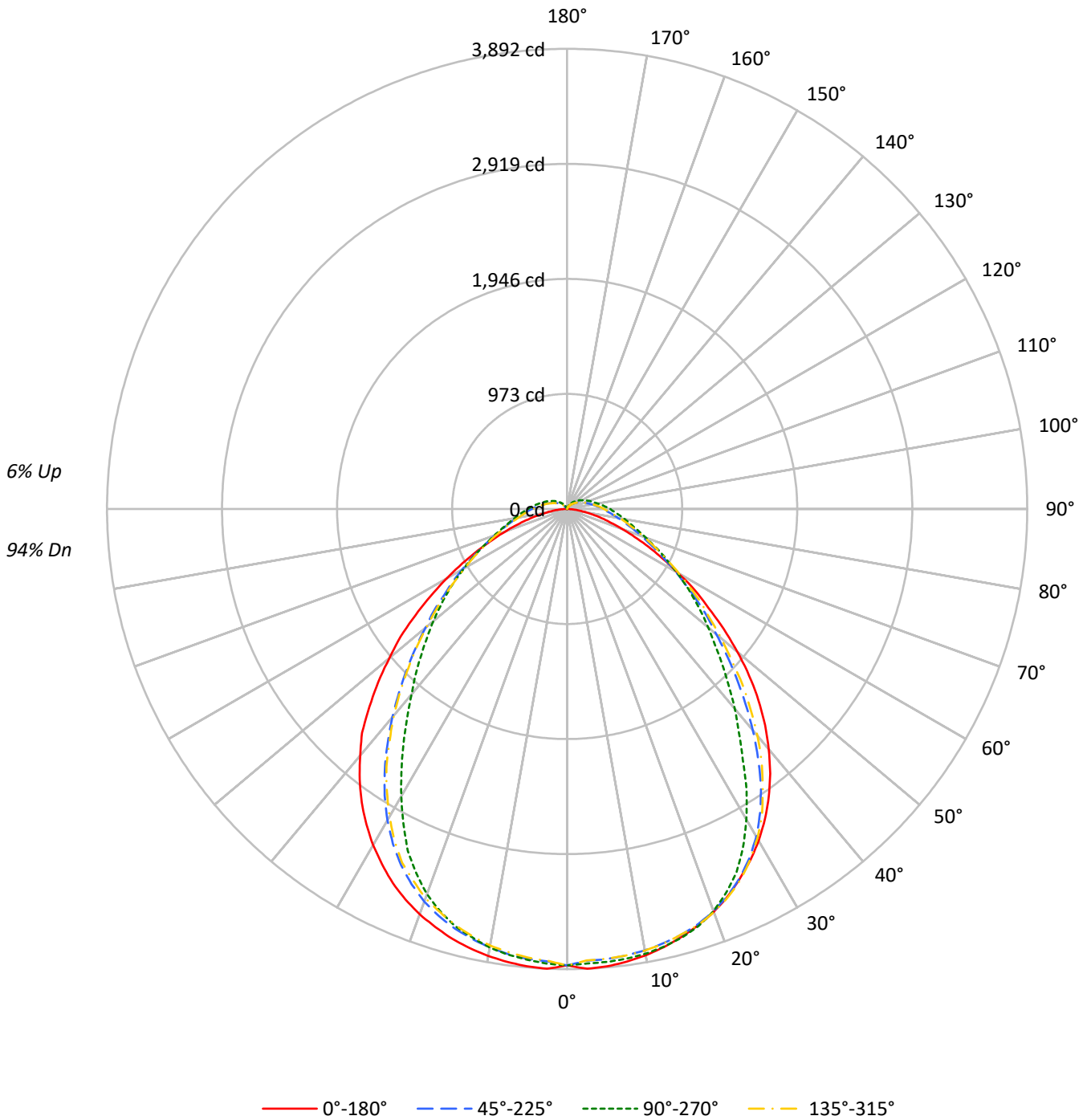
Lumens per Lamp: N/A  
Luminaire Lumens: 9769.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 103  
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-LD5-128SL-LN-UNV-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-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	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°	15597	15597	15597	15597
5°	15730	15100	15730	15034
10°	15681	14699	15707	14495
15°	15602	14260	15673	13889
20°	15506	13695	15596	13117
25°	15281	12857	15450	12100
30°	14982	11627	15178	10764
35°	14504	10118	14783	9421
40°	13807	8849	14172	8210
45°	12878	7692	13296	7251
50°	11596	6760	12107	6418
55°	10066	5969	10798	5667
60°	8504	5240	9272	4939
65°	7012	4634	7720	4296
70°	5627	4112	6301	3803
75°	4478	3797	5042	3493
80°	3313	3663	3903	3347
85°	2171	3684	2923	3386



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.0	3.7
10°-20°	1049.4	10.7
20°-30°	1555.2	15.9
30°-40°	1727.8	17.7
40°-50°	1566.2	16.0
50°-60°	1213.7	12.4
60°-70°	824.2	8.4
70°-80°	524.3	5.4
80°-90°	335.2	3.4
90°-100°	226.0	2.3
100°-110°	154.8	1.6
110°-120°	103.3	1.1
120°-130°	64.2	0.7
130°-140°	35.5	0.4
140°-150°	16.7	0.2
150°-160°	6.1	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2970.6	30.4
0°-40°	4698.4	48.1
0°-60°	7478.3	76.6
0°-90°	9162.0	93.8
90°-120°	484.1	5.0
90°-150°	600.5	6.1
90°-180°	607.0	6.2
0°-180°	9769.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3860	3860	3860	3860	3860	
5°	3884	3845	3884	3828	3884	369
15°	3746	3752	3762	3654	3746	1057
25°	3452	3389	3491	3189	3452	1590
35°	2973	2590	3030	2412	2973	1854
45°	2289	1852	2363	1745	2289	1758
55°	1461	1302	1567	1236	1461	1315
65°	758	875	834	811	758	760
75°	304	584	342	537	304	327
85°	55	420	74	386	55	66
90°	0	363	4	331	0	3
95°	2	310	0	289	2	2
105°	2	227	0	214	2	2
115°	2	172	0	159	2	2
125°	2	127	2	112	2	2
135°	2	89	2	72	2	2
145°	2	57	2	40	2	1
155°	2	32	2	15	2	1
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3892.0	3887.7	3883.5	3877.1	3883.5	3900.5	3889.9	3866.5	3862.3	3824.0	3841.0
5°	3883.5	3877.1	3872.9	3866.5	3875.0	3896.2	3885.6	3864.4	3858.0	3821.9	3841.0
7.5°	3862.3	3858.0	3851.6	3851.6	3860.1	3881.4	3872.9	3849.5	3845.3	3809.2	3830.4
10°	3832.5	3830.4	3826.2	3826.2	3834.7	3860.1	3849.5	3828.3	3824.0	3790.1	3813.4
12.5°	3794.3	3796.4	3790.1	3790.1	3802.8	3828.3	3819.8	3796.4	3792.2	3762.5	3785.8
15°	3745.5	3747.6	3743.4	3745.5	3758.2	3787.9	3777.3	3756.1	3751.9	3728.5	3747.6
17.5°	3690.3	3692.4	3692.4	3690.3	3705.1	3734.9	3726.4	3707.3	3700.9	3681.8	3705.1
20°	3626.6	3626.6	3626.6	3626.6	3643.6	3673.3	3662.7	3647.8	3635.1	3620.2	3639.3
22.5°	3548.0	3545.9	3548.0	3554.4	3571.4	3594.7	3588.4	3571.4	3552.3	3543.8	3558.6
25°	3452.5	3458.8	3461.0	3467.3	3488.6	3507.7	3501.3	3484.3	3454.6	3448.2	3452.5
27.5°	3352.7	3356.9	3363.3	3361.2	3390.9	3410.0	3397.3	3382.4	3339.9	3333.6	3329.3
30°	3240.1	3246.5	3250.8	3248.6	3272.0	3293.2	3280.5	3261.4	3204.0	3199.8	3165.8
32.5°	3112.7	3119.1	3123.4	3123.4	3157.3	3165.8	3142.5	3114.9	3053.3	3038.4	3008.7
35°	2972.6	2979.0	2981.1	2981.1	3015.1	3012.9	2983.2	2945.0	2877.1	2857.9	2807.0
37.5°	2821.9	2826.1	2828.2	2841.0	2855.8	2843.1	2804.9	2756.0	2705.1	2652.0	2596.8
40°	2652.0	2658.4	2662.6	2671.1	2686.0	2671.1	2615.9	2556.4	2501.2	2441.8	2386.6
42.5°	2477.9	2497.0	2492.7	2490.6	2499.1	2458.8	2416.3	2348.4	2293.2	2231.6	2176.4
45°	2288.9	2286.8	2297.4	2301.6	2299.5	2265.5	2206.1	2144.5	2089.3	2025.6	1978.9
47.5°	2089.3	2087.2	2095.7	2099.9	2087.2	2051.1	2004.4	1934.3	1887.6	1832.4	1796.3
50°	1879.1	1879.1	1891.9	1879.1	1872.7	1836.6	1798.4	1728.4	1692.3	1643.4	1622.2
52.5°	1668.9	1688.0	1675.3	1671.0	1664.7	1628.6	1598.8	1541.5	1511.8	1490.5	1465.1
55°	1460.8	1482.1	1473.6	1467.2	1465.1	1435.3	1407.7	1365.3	1346.2	1331.3	1316.4
57.5°	1284.6	1282.5	1278.2	1271.9	1274.0	1250.6	1223.0	1199.7	1191.2	1184.8	1189.0
60°	1080.8	1097.7	1091.4	1093.5	1095.6	1091.4	1068.0	1053.2	1055.3	1057.4	1063.8
62.5°	913.0	927.9	938.5	930.0	934.2	940.6	927.9	923.6	932.1	940.6	949.1
65°	758.0	772.9	783.5	781.4	794.1	806.9	804.7	809.0	828.1	838.7	849.3
67.5°	617.9	632.7	647.6	649.7	668.8	687.9	696.4	711.3	732.5	747.4	760.1
70°	496.8	509.6	526.6	537.2	562.7	588.2	603.0	632.7	645.5	666.7	675.2
72.5°	388.6	399.2	422.5	448.0	469.2	501.1	530.8	556.3	575.4	598.8	609.4
75°	303.6	307.9	333.4	363.1	392.8	428.9	460.8	488.4	513.8	537.2	554.2
77.5°	222.9	229.3	252.7	293.0	327.0	365.2	401.3	431.0	458.6	482.0	505.3
80°	155.0	167.7	193.2	233.6	271.8	314.2	348.2	382.2	411.9	435.3	458.6
82.5°	99.8	110.4	146.5	186.8	227.2	269.7	305.8	339.7	371.6	397.1	418.3
85°	55.2	70.1	106.2	148.6	189.0	231.4	269.7	303.6	335.5	358.8	380.1
87.5°	21.2	42.5	76.4	116.8	157.1	197.5	237.8	269.7	301.5	327.0	346.1
90°	0.0	25.5	57.3	97.7	138.0	178.4	216.6	250.5	280.3	303.6	324.9
92.5°	2.1	17.0	44.6	78.6	116.8	155.0	191.1	225.1	254.8	278.2	297.3
95°	2.1	12.7	36.1	67.9	101.9	138.0	172.0	203.8	231.4	254.8	273.9
97.5°	2.1	8.5	29.7	59.5	89.2	125.3	157.1	186.8	212.3	235.7	250.5
100°	2.1	8.5	25.5	51.0	80.7	112.5	142.3	172.0	195.3	214.5	231.4
102.5°	2.1	6.4	21.2	44.6	72.2	99.8	129.5	157.1	178.4	197.5	214.5
105°	2.1	6.4	19.1	38.2	63.7	91.3	116.8	142.3	165.6	182.6	197.5
107.5°	2.1	4.2	17.0	31.8	55.2	82.8	108.3	129.5	150.8	167.7	182.6
110°	2.1	4.2	14.9	29.7	48.8	74.3	97.7	118.9	138.0	155.0	167.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.1	4.2	12.7	27.6	44.6	65.8	89.2	108.3	127.4	142.3	155.0
115°	2.1	4.2	12.7	25.5	40.3	57.3	78.6	99.8	114.7	131.6	142.3
117.5°	2.1	4.2	10.6	21.2	38.2	53.1	72.2	89.2	106.2	121.0	131.6
120°	2.1	4.2	10.6	19.1	34.0	48.8	63.7	80.7	97.7	108.3	118.9
122.5°	2.1	4.2	8.5	19.1	29.7	44.6	57.3	72.2	87.1	99.8	110.4
125°	2.1	4.2	8.5	17.0	27.6	40.3	53.1	63.7	78.6	89.2	99.8
127.5°	2.1	4.2	8.5	14.9	25.5	36.1	48.8	59.5	70.1	80.7	89.2
130°	2.1	4.2	6.4	12.7	23.4	31.8	42.5	55.2	63.7	72.2	80.7
132.5°	2.1	4.2	6.4	12.7	19.1	27.6	38.2	48.8	57.3	65.8	72.2
135°	2.1	4.2	6.4	10.6	17.0	25.5	31.8	42.5	51.0	59.5	65.8
137.5°	2.1	4.2	6.4	10.6	14.9	21.2	27.6	36.1	44.6	51.0	59.5
140°	2.1	4.2	6.4	8.5	12.7	19.1	25.5	29.7	38.2	44.6	51.0
142.5°	2.1	4.2	6.4	8.5	12.7	17.0	21.2	25.5	31.8	38.2	44.6
145°	2.1	4.2	6.4	8.5	10.6	14.9	19.1	23.4	25.5	31.8	36.1
147.5°	2.1	4.2	6.4	8.5	8.5	12.7	17.0	19.1	23.4	25.5	29.7
150°	2.1	4.2	6.4	6.4	8.5	10.6	14.9	17.0	19.1	23.4	25.5
152.5°	2.1	4.2	6.4	6.4	8.5	10.6	12.7	14.9	17.0	19.1	21.2
155°	2.1	4.2	6.4	6.4	6.4	8.5	10.6	12.7	14.9	17.0	19.1
157.5°	4.2	4.2	4.2	6.4	6.4	8.5	8.5	10.6	12.7	12.7	14.9
160°	4.2	4.2	4.2	6.4	6.4	6.4	8.5	8.5	10.6	10.6	12.7
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3836.8	3843.2	3862.3	3862.3	3858.0	3853.8	3853.8	3847.4	3851.6	3860.1	3855.9
5°	3836.8	3843.2	3862.3	3862.3	3858.0	3853.8	3851.6	3845.3	3851.6	3860.1	3855.9
7.5°	3824.0	3832.5	3851.6	3851.6	3847.4	3845.3	3841.0	3836.8	3843.2	3851.6	3847.4
10°	3807.1	3815.6	3834.7	3834.7	3830.4	3830.4	3824.0	3819.8	3828.3	3834.7	3832.5
12.5°	3781.6	3792.2	3809.2	3807.1	3802.8	3804.9	3798.6	3790.1	3798.6	3804.9	3807.1
15°	3745.5	3758.2	3775.2	3771.0	3764.6	3768.8	3758.2	3751.9	3758.2	3771.0	3768.8
17.5°	3698.8	3707.3	3720.0	3720.0	3713.6	3709.4	3705.1	3698.8	3703.0	3711.5	3713.6
20°	3632.9	3643.6	3649.9	3643.6	3641.4	3635.1	3626.6	3620.2	3628.7	3641.4	3643.6
22.5°	3545.9	3548.0	3562.9	3548.0	3537.4	3535.3	3526.8	3514.0	3526.8	3537.4	3539.5
25°	3437.6	3448.2	3441.9	3416.4	3416.4	3399.4	3395.1	3388.8	3390.9	3410.0	3418.5
27.5°	3299.6	3303.8	3286.9	3265.6	3246.5	3235.9	3221.0	3223.2	3223.2	3248.6	3257.1
30°	3148.8	3125.5	3110.6	3076.6	3061.8	3036.3	3032.1	3032.1	3027.8	3040.6	3078.8
32.5°	2968.4	2936.5	2913.2	2881.3	2855.8	2830.3	2817.6	2824.0	2821.9	2853.7	2866.4
35°	2770.9	2751.8	2702.9	2662.6	2647.7	2609.5	2609.5	2590.4	2603.2	2639.2	2654.1
37.5°	2562.8	2533.1	2492.7	2448.2	2437.5	2407.8	2397.2	2386.6	2414.2	2420.6	2435.4
40°	2350.5	2322.9	2284.7	2242.2	2242.2	2206.1	2206.1	2206.1	2208.2	2221.0	2248.6
42.5°	2148.8	2119.0	2085.1	2055.3	2051.1	2023.5	2023.5	2021.4	2025.6	2036.2	2061.7
45°	1953.4	1930.1	1894.0	1879.1	1881.2	1851.5	1857.9	1851.5	1860.0	1870.6	1879.1
47.5°	1772.9	1758.1	1743.2	1722.0	1715.6	1713.5	1702.9	1694.4	1709.2	1709.2	1722.0
50°	1605.2	1596.7	1588.2	1575.5	1577.6	1569.1	1556.4	1556.4	1567.0	1569.1	1577.6
52.5°	1458.7	1448.1	1437.5	1439.6	1441.7	1437.5	1431.1	1424.7	1431.1	1435.3	1446.0
55°	1312.2	1303.7	1314.3	1310.1	1314.3	1310.1	1305.8	1301.6	1312.2	1305.8	1316.4
57.5°	1180.5	1189.0	1193.3	1184.8	1191.2	1186.9	1189.0	1182.7	1191.2	1195.4	1193.3
60°	1059.5	1072.3	1065.9	1068.0	1076.5	1072.3	1063.8	1070.1	1078.6	1080.8	1078.6
62.5°	949.1	964.0	970.3	966.1	968.2	964.0	970.3	961.9	972.5	976.7	970.3
65°	849.3	866.3	870.5	870.5	870.5	866.3	872.7	874.8	879.0	879.0	874.8
67.5°	764.4	779.2	783.5	787.7	783.5	779.2	779.2	781.4	789.9	794.1	789.9
70°	687.9	702.8	704.9	704.9	707.1	711.3	702.8	707.1	713.4	715.5	713.4
72.5°	622.1	637.0	641.2	639.1	641.2	643.4	643.4	639.1	645.5	649.7	649.7
75°	569.0	577.5	581.8	581.8	583.9	586.0	586.0	583.9	588.2	590.3	592.4
77.5°	520.2	526.6	532.9	532.9	535.1	532.9	537.2	537.2	539.3	541.4	543.6
80°	471.4	479.9	484.1	486.2	490.5	492.6	492.6	492.6	494.7	496.8	496.8
82.5°	433.2	439.5	445.9	452.3	452.3	454.4	454.4	454.4	456.5	456.5	458.6
85°	394.9	403.4	409.8	414.0	416.2	418.3	418.3	420.4	420.4	420.4	422.5
87.5°	361.0	371.6	375.8	380.1	382.2	386.4	386.4	386.4	388.6	388.6	388.6
90°	337.6	348.2	352.5	356.7	358.8	361.0	361.0	363.1	363.1	365.2	365.2
92.5°	310.0	320.6	329.1	329.1	331.2	335.5	333.4	333.4	335.5	337.6	337.6
95°	288.8	297.3	303.6	305.8	307.9	307.9	307.9	310.0	307.9	310.0	310.0
97.5°	263.3	271.8	278.2	282.4	284.5	284.5	284.5	286.6	284.5	286.6	286.6
100°	242.1	250.5	256.9	259.0	263.3	263.3	263.3	263.3	263.3	263.3	265.4
102.5°	225.1	233.6	237.8	239.9	242.1	244.2	244.2	244.2	244.2	246.3	246.3
105°	208.1	216.6	220.8	222.9	225.1	227.2	227.2	227.2	229.3	229.3	227.2
107.5°	193.2	199.6	203.8	208.1	210.2	210.2	212.3	212.3	212.3	212.3	212.3
110°	178.4	184.7	191.1	195.3	195.3	197.5	197.5	199.6	199.6	197.5	199.6





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	163.5	172.0	176.2	180.5	182.6	184.7	184.7	184.7	184.7	184.7	184.7
115°	150.8	159.2	163.5	167.7	169.9	172.0	172.0	172.0	172.0	172.0	172.0
117.5°	140.1	148.6	152.9	155.0	157.1	159.2	161.4	161.4	161.4	161.4	159.2
120°	129.5	135.9	140.1	144.4	146.5	148.6	148.6	148.6	148.6	148.6	148.6
122.5°	118.9	125.3	129.5	133.8	135.9	138.0	138.0	138.0	138.0	138.0	138.0
125°	108.3	114.7	118.9	123.2	125.3	127.4	127.4	127.4	127.4	127.4	127.4
127.5°	97.7	104.0	110.4	112.5	114.7	116.8	116.8	116.8	118.9	116.8	116.8
130°	87.1	93.4	99.8	101.9	104.0	106.2	108.3	108.3	108.3	108.3	106.2
132.5°	78.6	84.9	89.2	91.3	95.5	95.5	97.7	97.7	97.7	97.7	95.5
135°	72.2	76.4	80.7	82.8	87.1	87.1	87.1	89.2	89.2	87.1	84.9
137.5°	63.7	67.9	72.2	74.3	76.4	78.6	78.6	80.7	78.6	78.6	78.6
140°	59.5	61.6	65.8	67.9	70.1	70.1	70.1	72.2	72.2	70.1	70.1
142.5°	51.0	55.2	59.5	61.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
145°	42.5	48.8	51.0	55.2	55.2	57.3	57.3	57.3	57.3	57.3	55.2
147.5°	36.1	40.3	46.7	48.8	48.8	51.0	51.0	51.0	51.0	51.0	48.8
150°	27.6	31.8	38.2	42.5	42.5	44.6	44.6	44.6	44.6	42.5	42.5
152.5°	23.4	27.6	29.7	34.0	36.1	36.1	36.1	38.2	36.1	36.1	36.1
155°	21.2	23.4	25.5	27.6	29.7	31.8	31.8	31.8	31.8	29.7	29.7
157.5°	17.0	19.1	21.2	23.4	25.5	27.6	27.6	27.6	27.6	27.6	25.5
160°	12.7	14.9	17.0	17.0	19.1	21.2	23.4	21.2	21.2	21.2	21.2
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3851.6	3849.5	3855.9	3845.3	3813.4	3821.9	3817.7	3836.8	3841.0	3845.3	3864.4
5°	3851.6	3849.5	3853.8	3845.3	3811.3	3817.7	3813.4	3832.5	3836.8	3838.9	3858.0
7.5°	3843.2	3841.0	3847.4	3836.8	3800.7	3809.2	3802.8	3821.9	3824.0	3826.2	3843.2
10°	3826.2	3824.0	3828.3	3819.8	3783.7	3792.2	3783.7	3802.8	3802.8	3807.1	3819.8
12.5°	3800.7	3796.4	3804.9	3794.3	3754.0	3764.6	3760.3	3773.1	3775.2	3777.3	3790.1
15°	3764.6	3760.3	3766.7	3760.3	3724.2	3726.4	3720.0	3739.1	3741.2	3737.0	3749.7
17.5°	3711.5	3707.3	3720.0	3715.8	3679.7	3688.2	3686.0	3690.3	3696.6	3686.0	3703.0
20°	3645.7	3649.9	3654.2	3656.3	3628.7	3628.7	3626.6	3635.1	3641.4	3632.9	3645.7
22.5°	3548.0	3558.6	3571.4	3575.6	3556.5	3554.4	3567.1	3562.9	3569.2	3565.0	3573.5
25°	3424.9	3446.1	3458.8	3471.6	3461.0	3465.2	3484.3	3488.6	3488.6	3486.4	3494.9
27.5°	3272.0	3299.6	3322.9	3350.6	3339.9	3348.4	3380.3	3384.5	3393.0	3384.5	3401.5
30°	3089.4	3114.9	3159.5	3199.8	3204.0	3216.8	3261.4	3265.6	3289.0	3280.5	3286.9
32.5°	2906.8	2919.5	2970.5	3010.8	3036.3	3068.2	3117.0	3125.5	3157.3	3163.7	3163.7
35°	2677.5	2713.6	2760.3	2817.6	2849.5	2883.4	2949.2	2962.0	3008.7	3023.6	3040.6
37.5°	2484.2	2518.2	2547.9	2607.4	2664.7	2702.9	2756.0	2787.9	2836.7	2864.3	2885.6
40°	2278.3	2305.9	2337.7	2397.2	2446.0	2503.4	2556.4	2594.7	2656.2	2688.1	2715.7
42.5°	2082.9	2104.2	2138.2	2180.6	2231.6	2295.3	2346.2	2390.8	2456.6	2501.2	2533.1
45°	1908.8	1921.6	1951.3	1983.2	2027.7	2093.6	2142.4	2199.7	2252.8	2299.5	2337.7
47.5°	1745.3	1762.3	1777.2	1798.4	1838.8	1879.1	1936.4	1991.6	2044.7	2095.7	2133.9
50°	1594.6	1594.6	1617.9	1632.8	1660.4	1696.5	1741.1	1779.3	1845.1	1881.2	1930.1
52.5°	1448.1	1456.6	1469.3	1477.8	1499.0	1522.4	1558.5	1590.3	1645.5	1679.5	1726.2
55°	1318.6	1327.1	1333.4	1337.7	1350.4	1378.0	1390.8	1416.2	1454.5	1482.1	1522.4
57.5°	1195.4	1199.7	1206.0	1208.2	1210.3	1227.3	1237.9	1244.2	1282.5	1310.1	1344.0
60°	1082.9	1082.9	1089.2	1087.1	1085.0	1093.5	1091.4	1097.7	1121.1	1138.1	1152.9
62.5°	976.7	976.7	978.8	974.6	972.5	972.5	964.0	970.3	976.7	978.8	989.5
65°	879.0	889.7	881.2	883.3	870.5	866.3	862.1	849.3	847.2	838.7	842.9
67.5°	792.0	800.5	792.0	792.0	781.4	772.9	762.3	741.0	734.7	717.7	713.4
70°	721.9	715.5	719.8	713.4	700.7	690.1	675.2	658.2	637.0	615.8	600.9
72.5°	654.0	654.0	649.7	643.4	637.0	615.8	598.8	579.7	554.2	526.6	505.3
75°	588.2	590.3	590.3	583.9	573.3	554.2	535.1	507.5	479.9	448.0	420.4
77.5°	541.4	541.4	541.4	530.8	520.2	503.2	479.9	450.1	420.4	382.2	350.3
80°	496.8	494.7	494.7	482.0	471.4	452.3	428.9	399.2	367.3	327.0	290.9
82.5°	460.8	458.6	454.4	443.8	428.9	409.8	386.4	354.6	320.6	284.5	239.9
85°	422.5	420.4	416.2	405.5	390.7	373.7	348.2	316.4	282.4	242.1	199.6
87.5°	388.6	386.4	380.1	373.7	356.7	337.6	312.1	282.4	246.3	208.1	165.6
90°	365.2	361.0	356.7	348.2	333.4	312.1	286.6	254.8	218.7	180.5	138.0
92.5°	337.6	335.5	329.1	320.6	307.9	286.6	261.2	231.4	195.3	159.2	118.9
95°	310.0	307.9	303.6	295.1	282.4	263.3	239.9	210.2	176.2	140.1	104.0
97.5°	284.5	284.5	278.2	271.8	256.9	242.1	218.7	191.1	159.2	127.4	93.4
100°	263.3	263.3	256.9	248.4	237.8	222.9	199.6	174.1	144.4	114.7	80.7
102.5°	244.2	242.1	237.8	229.3	218.7	203.8	182.6	159.2	131.6	101.9	72.2
105°	227.2	225.1	220.8	212.3	203.8	186.8	169.9	146.5	118.9	91.3	63.7
107.5°	210.2	208.1	206.0	197.5	186.8	172.0	155.0	131.6	108.3	82.8	57.3
110°	195.3	193.2	189.0	180.5	169.9	157.1	140.1	121.0	97.7	74.3	51.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.6	180.5	176.2	167.7	159.2	144.4	129.5	108.3	89.2	67.9	44.6
115°	169.9	167.7	163.5	155.0	144.4	131.6	116.8	99.8	78.6	59.5	40.3
117.5°	157.1	155.0	150.8	144.4	133.8	121.0	106.2	89.2	70.1	55.2	36.1
120°	146.5	142.3	138.0	131.6	121.0	110.4	95.5	80.7	63.7	48.8	31.8
122.5°	135.9	131.6	127.4	121.0	110.4	99.8	84.9	72.2	59.5	44.6	29.7
125°	123.2	121.0	116.8	110.4	99.8	89.2	78.6	65.8	53.1	40.3	25.5
127.5°	112.5	110.4	106.2	97.7	89.2	80.7	70.1	59.5	46.7	34.0	23.4
130°	104.0	99.8	95.5	89.2	82.8	74.3	63.7	53.1	42.5	29.7	21.2
132.5°	93.4	89.2	84.9	80.7	74.3	65.8	57.3	46.7	38.2	27.6	19.1
135°	84.9	80.7	76.4	72.2	65.8	59.5	51.0	42.5	34.0	25.5	17.0
137.5°	74.3	72.2	70.1	65.8	59.5	53.1	46.7	36.1	29.7	23.4	14.9
140°	67.9	65.8	63.7	57.3	53.1	46.7	40.3	31.8	25.5	19.1	12.7
142.5°	61.6	59.5	55.2	51.0	46.7	42.5	34.0	29.7	23.4	17.0	12.7
145°	53.1	51.0	48.8	44.6	40.3	34.0	29.7	25.5	21.2	14.9	10.6
147.5°	48.8	46.7	42.5	38.2	34.0	29.7	27.6	23.4	17.0	12.7	8.5
150°	40.3	38.2	36.1	31.8	29.7	27.6	23.4	19.1	14.9	10.6	8.5
152.5°	34.0	31.8	29.7	29.7	25.5	23.4	19.1	17.0	12.7	10.6	6.4
155°	29.7	29.7	27.6	25.5	21.2	19.1	17.0	12.7	10.6	8.5	6.4
157.5°	25.5	23.4	21.2	21.2	19.1	17.0	12.7	10.6	8.5	8.5	6.4
160°	21.2	19.1	19.1	17.0	14.9	12.7	10.6	10.6	8.5	6.4	6.4
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3866.5	3843.2	3864.4	3892.0	3892.0	3887.7	3883.5	3892.0	3913.2	3904.7	3879.2
5°	3860.1	3836.8	3855.9	3883.5	3883.5	3877.1	3872.9	3879.2	3902.6	3892.0	3868.6
7.5°	3847.4	3826.2	3838.9	3864.4	3864.4	3858.0	3853.8	3862.3	3881.4	3870.8	3845.3
10°	3824.0	3800.7	3815.6	3838.9	3836.8	3832.5	3826.2	3836.8	3853.8	3838.9	3809.2
12.5°	3794.3	3771.0	3783.7	3804.9	3802.8	3794.3	3790.1	3796.4	3811.3	3802.8	3771.0
15°	3754.0	3730.6	3741.2	3762.5	3756.1	3749.7	3741.2	3743.4	3762.5	3747.6	3713.6
17.5°	3705.1	3679.7	3688.2	3707.3	3700.9	3694.5	3683.9	3686.0	3707.3	3686.0	3649.9
20°	3645.7	3618.1	3624.5	3647.8	3637.2	3626.6	3616.0	3616.0	3637.2	3613.8	3573.5
22.5°	3582.0	3554.4	3558.6	3575.6	3567.1	3548.0	3537.4	3543.8	3554.4	3524.7	3482.2
25°	3503.4	3467.3	3473.7	3490.7	3484.3	3458.8	3448.2	3452.5	3448.2	3424.9	3380.3
27.5°	3412.1	3373.9	3378.2	3388.8	3380.3	3356.9	3344.2	3346.3	3337.8	3308.1	3257.1
30°	3297.5	3278.4	3276.2	3282.6	3269.9	3246.5	3231.6	3227.4	3225.3	3182.8	3121.2
32.5°	3180.7	3163.7	3153.1	3161.6	3146.7	3123.4	3097.9	3097.9	3076.6	3036.3	2983.2
35°	3061.8	3034.2	3023.6	3029.9	3012.9	2983.2	2962.0	2951.4	2919.5	2868.6	2811.2
37.5°	2908.9	2889.8	2877.1	2883.4	2864.3	2843.1	2802.7	2792.1	2758.2	2688.1	2615.9
40°	2743.3	2728.4	2715.7	2722.1	2700.8	2669.0	2632.9	2615.9	2577.7	2499.1	2441.8
42.5°	2564.9	2558.6	2543.7	2567.1	2524.6	2492.7	2456.6	2429.0	2390.8	2305.9	2240.1
45°	2376.0	2390.8	2356.9	2363.2	2335.6	2308.0	2269.8	2229.5	2191.2	2110.5	2036.2
47.5°	2176.4	2187.0	2163.6	2167.9	2138.2	2112.7	2078.7	2027.7	1985.3	1915.2	1849.4
50°	1970.4	1966.2	1966.2	1961.9	1938.6	1906.7	1872.7	1826.0	1783.6	1719.9	1664.7
52.5°	1751.7	1760.2	1764.5	1775.1	1745.3	1726.2	1673.2	1632.8	1601.0	1535.1	1488.4
55°	1541.5	1571.2	1562.7	1567.0	1533.0	1518.2	1475.7	1443.8	1397.1	1358.9	1329.2
57.5°	1350.4	1356.8	1361.0	1367.4	1352.5	1322.8	1288.8	1263.4	1227.3	1195.4	1174.2
60°	1165.7	1165.7	1167.8	1178.4	1163.6	1138.1	1112.6	1093.5	1068.0	1048.9	1036.2
62.5°	991.6	1006.4	1008.6	1000.1	981.0	968.2	951.2	940.6	923.6	917.3	913.0
65°	830.2	830.2	830.2	834.5	823.8	815.3	804.7	802.6	809.0	800.5	804.7
67.5°	694.3	687.9	683.7	685.8	681.6	677.3	675.2	681.6	694.3	694.3	704.9
70°	577.5	564.8	556.3	556.3	556.3	558.4	564.8	577.5	598.8	607.3	622.1
72.5°	482.0	454.4	441.6	441.6	443.8	452.3	471.4	494.7	513.8	530.8	549.9
75°	390.7	363.1	344.0	341.8	346.1	358.8	386.4	407.7	439.5	462.9	486.2
77.5°	316.4	282.4	259.0	256.9	263.3	282.4	316.4	344.0	380.1	405.5	431.0
80°	252.7	214.5	195.3	182.6	193.2	216.6	254.8	288.8	322.7	356.7	388.6
82.5°	201.7	165.6	135.9	123.2	135.9	167.7	203.8	244.2	278.2	314.2	346.1
85°	159.2	121.0	87.1	74.3	89.2	123.2	163.5	203.8	242.1	278.2	310.0
87.5°	125.3	87.1	53.1	36.1	55.2	91.3	129.5	169.9	210.2	246.3	278.2
90°	97.7	61.6	29.7	4.2	31.8	65.8	104.0	142.3	182.6	218.7	250.5
92.5°	82.8	46.7	17.0	0.0	19.1	48.8	84.9	123.2	159.2	195.3	227.2
95°	70.1	38.2	12.7	0.0	12.7	38.2	70.1	104.0	140.1	176.2	208.1
97.5°	59.5	29.7	8.5	0.0	8.5	29.7	57.3	91.3	123.2	157.1	186.8
100°	51.0	25.5	6.4	0.0	6.4	23.4	48.8	78.6	110.4	142.3	169.9
102.5°	44.6	21.2	4.2	0.0	4.2	19.1	40.3	67.9	95.5	125.3	152.9
105°	38.2	17.0	4.2	0.0	2.1	14.9	34.0	59.5	84.9	112.5	138.0
107.5°	34.0	14.9	4.2	0.0	2.1	12.7	29.7	51.0	76.4	99.8	123.2
110°	29.7	12.7	4.2	0.0	2.1	8.5	25.5	44.6	65.8	89.2	112.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.5	10.6	2.1	0.0	0.0	6.4	21.2	38.2	57.3	80.7	99.8
115°	23.4	10.6	2.1	0.0	0.0	4.2	17.0	34.0	51.0	72.2	89.2
117.5°	21.2	8.5	2.1	0.0	2.1	4.2	14.9	29.7	44.6	61.6	80.7
120°	19.1	8.5	2.1	0.0	2.1	2.1	10.6	25.5	38.2	55.2	70.1
122.5°	17.0	8.5	2.1	0.0	2.1	2.1	8.5	21.2	34.0	48.8	61.6
125°	14.9	6.4	4.2	2.1	2.1	2.1	6.4	17.0	29.7	40.3	55.2
127.5°	14.9	6.4	4.2	2.1	2.1	2.1	4.2	14.9	23.4	36.1	48.8
130°	12.7	6.4	4.2	2.1	2.1	2.1	2.1	10.6	21.2	29.7	40.3
132.5°	10.6	6.4	4.2	2.1	2.1	2.1	2.1	6.4	14.9	25.5	34.0
135°	10.6	6.4	4.2	2.1	2.1	2.1	2.1	4.2	10.6	19.1	27.6
137.5°	8.5	4.2	4.2	2.1	2.1	2.1	2.1	2.1	8.5	14.9	21.2
140°	8.5	4.2	4.2	2.1	2.1	2.1	2.1	2.1	6.4	10.6	17.0
142.5°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	4.2	8.5	12.7
145°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	4.2	8.5
147.5°	6.4	6.4	4.2	2.1	2.1	2.1	2.1	2.1	2.1	4.2	6.4
150°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2
152.5°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2
155°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
157.5°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2
160°	6.4	4.2	4.2	2.1	4.2	2.1	4.2	4.2	4.2	4.2	4.2
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3870.8	3830.4	3851.6	3845.3	3853.8	3870.8	3868.6	3864.4	3864.4	3858.0	3849.5
5°	3858.0	3819.8	3838.9	3828.3	3838.9	3853.8	3851.6	3845.3	3849.5	3838.9	3828.3
7.5°	3832.5	3798.6	3815.6	3807.1	3815.6	3830.4	3824.0	3821.9	3826.2	3809.2	3802.8
10°	3802.8	3764.6	3783.7	3773.1	3783.7	3794.3	3790.1	3781.6	3790.1	3773.1	3766.7
12.5°	3756.1	3724.2	3737.0	3732.7	3739.1	3749.7	3741.2	3734.9	3739.1	3724.2	3711.5
15°	3705.1	3673.3	3683.9	3677.5	3681.8	3694.5	3679.7	3677.5	3673.3	3658.4	3654.2
17.5°	3639.3	3609.6	3620.2	3609.6	3616.0	3611.7	3609.6	3599.0	3599.0	3582.0	3569.2
20°	3558.6	3533.2	3526.8	3518.3	3526.8	3518.3	3505.6	3497.1	3494.9	3477.9	3467.3
22.5°	3465.2	3435.5	3439.7	3416.4	3418.5	3405.8	3384.5	3376.0	3367.5	3348.4	3333.6
25°	3352.7	3322.9	3301.7	3286.9	3267.7	3265.6	3238.0	3216.8	3214.7	3191.3	3189.2
27.5°	3225.3	3191.3	3174.3	3138.2	3114.9	3095.8	3072.4	3051.2	3040.6	3015.1	2998.1
30°	3078.8	3040.6	2998.1	2972.6	2936.5	2921.6	2881.3	2855.8	2847.3	2819.7	2807.0
32.5°	2913.2	2872.8	2838.8	2790.0	2749.7	2728.4	2688.1	2662.6	2652.0	2622.3	2605.3
35°	2732.7	2688.1	2647.7	2601.0	2569.2	2533.1	2484.2	2458.8	2435.4	2424.8	2412.1
37.5°	2543.7	2494.9	2448.2	2401.4	2373.8	2331.4	2288.9	2271.9	2244.3	2233.7	2221.0
40°	2348.4	2299.5	2254.9	2210.3	2178.5	2140.3	2102.1	2095.7	2066.0	2055.3	2046.9
42.5°	2155.1	2104.2	2053.2	2021.4	1998.0	1959.8	1934.3	1927.9	1902.5	1896.1	1896.1
45°	1981.0	1917.3	1874.9	1847.3	1828.2	1796.3	1775.1	1770.8	1749.6	1745.3	1745.3
47.5°	1794.2	1734.7	1702.9	1685.9	1668.9	1645.5	1632.8	1632.8	1611.6	1607.3	1605.2
50°	1620.1	1564.9	1541.5	1524.5	1522.4	1505.4	1494.8	1490.5	1490.5	1475.7	1477.8
52.5°	1454.5	1426.9	1407.7	1397.1	1384.4	1373.8	1365.3	1365.3	1358.9	1348.3	1352.5
55°	1301.6	1269.7	1271.9	1263.4	1257.0	1250.6	1252.7	1240.0	1237.9	1229.4	1235.8
57.5°	1148.7	1148.7	1144.5	1138.1	1127.5	1131.7	1131.7	1131.7	1121.1	1114.7	1121.1
60°	1019.2	1025.5	1014.9	1021.3	1017.1	1019.2	1014.9	1014.9	1008.6	1006.4	1008.6
62.5°	904.5	915.1	910.9	919.4	915.1	917.3	921.5	913.0	908.8	904.5	908.8
65°	802.6	815.3	813.2	819.6	821.7	823.8	826.0	821.7	817.5	813.2	811.1
67.5°	713.4	726.2	734.7	736.8	738.9	745.3	743.2	738.9	734.7	728.3	726.2
70°	632.7	649.7	660.3	664.6	673.1	668.8	668.8	666.7	662.5	656.1	654.0
72.5°	564.8	583.9	594.5	598.8	607.3	607.3	605.1	603.0	598.8	592.4	590.3
75°	505.3	522.3	537.2	545.7	552.1	552.1	549.9	547.8	543.6	539.3	537.2
77.5°	458.6	473.5	486.2	496.8	501.1	503.2	501.1	496.8	496.8	494.7	492.6
80°	411.9	428.9	441.6	452.3	458.6	458.6	456.5	458.6	454.4	452.3	450.1
82.5°	371.6	390.7	405.5	416.2	420.4	422.5	420.4	422.5	418.3	418.3	418.3
85°	335.5	354.6	371.6	380.1	386.4	388.6	388.6	388.6	386.4	386.4	386.4
87.5°	305.8	324.9	341.8	350.3	356.7	358.8	358.8	361.0	356.7	356.7	356.7
90°	278.2	297.3	314.2	322.7	329.1	333.4	333.4	335.5	333.4	331.2	331.2
92.5°	252.7	273.9	290.9	299.4	305.8	312.1	312.1	314.2	310.0	310.0	310.0
95°	231.4	252.7	267.5	278.2	284.5	288.8	290.9	290.9	288.8	288.8	288.8
97.5°	212.3	231.4	246.3	256.9	263.3	265.4	267.5	269.7	267.5	267.5	267.5
100°	193.2	212.3	227.2	235.7	244.2	246.3	248.4	250.5	250.5	248.4	248.4
102.5°	176.2	195.3	208.1	218.7	225.1	229.3	231.4	231.4	231.4	231.4	231.4
105°	159.2	178.4	191.1	201.7	208.1	212.3	214.5	216.6	216.6	214.5	214.5
107.5°	144.4	161.4	176.2	184.7	193.2	197.5	199.6	199.6	201.7	199.6	199.6
110°	129.5	148.6	161.4	169.9	178.4	182.6	184.7	186.8	186.8	186.8	186.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	118.9	133.8	146.5	155.0	163.5	167.7	169.9	172.0	174.1	172.0	172.0
115°	106.2	121.0	133.8	142.3	148.6	152.9	157.1	159.2	159.2	161.4	159.2
117.5°	95.5	108.3	121.0	129.5	135.9	142.3	144.4	146.5	148.6	146.5	146.5
120°	84.9	97.7	108.3	116.8	123.2	129.5	131.6	133.8	135.9	133.8	133.8
122.5°	76.4	87.1	97.7	106.2	112.5	116.8	121.0	121.0	123.2	123.2	123.2
125°	67.9	78.6	87.1	95.5	101.9	106.2	108.3	110.4	110.4	112.5	112.5
127.5°	59.5	67.9	78.6	84.9	91.3	95.5	97.7	99.8	99.8	101.9	101.9
130°	51.0	59.5	67.9	74.3	80.7	84.9	87.1	89.2	91.3	91.3	91.3
132.5°	44.6	53.1	59.5	65.8	70.1	74.3	78.6	80.7	80.7	80.7	80.7
135°	36.1	44.6	51.0	57.3	61.6	65.8	67.9	72.2	72.2	72.2	72.2
137.5°	29.7	38.2	44.6	48.8	53.1	57.3	59.5	61.6	63.7	63.7	63.7
140°	23.4	29.7	36.1	42.5	46.7	48.8	53.1	53.1	55.2	55.2	55.2
142.5°	17.0	23.4	27.6	34.0	38.2	42.5	44.6	46.7	46.7	46.7	46.7
145°	12.7	17.0	21.2	25.5	31.8	34.0	36.1	38.2	40.3	40.3	40.3
147.5°	8.5	12.7	14.9	19.1	23.4	27.6	29.7	31.8	34.0	34.0	34.0
150°	6.4	8.5	12.7	14.9	17.0	21.2	25.5	25.5	27.6	27.6	25.5
152.5°	4.2	6.4	8.5	10.6	12.7	14.9	19.1	19.1	21.2	21.2	21.2
155°	4.2	4.2	4.2	6.4	8.5	10.6	12.7	14.9	14.9	14.9	14.9
157.5°	4.2	4.2	4.2	4.2	4.2	6.4	8.5	10.6	10.6	10.6	10.6
160°	4.2	4.2	2.1	2.1	4.2	4.2	4.2	4.2	6.4	6.4	6.4
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3855.9	3860.1	3860.1	3855.9	3853.8	3862.3	3851.6	3811.3	3824.0	3828.3	3841.0
5°	3836.8	3841.0	3841.0	3841.0	3836.8	3845.3	3834.7	3794.3	3809.2	3815.6	3824.0
7.5°	3809.2	3811.3	3815.6	3813.4	3809.2	3821.9	3811.3	3771.0	3781.6	3792.2	3802.8
10°	3773.1	3773.1	3775.2	3779.5	3775.2	3785.8	3775.2	3739.1	3749.7	3756.1	3768.8
12.5°	3724.2	3728.5	3730.6	3728.5	3726.4	3734.9	3730.6	3696.6	3700.9	3713.6	3726.4
15°	3658.4	3658.4	3669.0	3664.8	3664.8	3673.3	3677.5	3639.3	3645.7	3664.8	3677.5
17.5°	3577.7	3579.9	3588.4	3592.6	3590.5	3605.3	3607.5	3577.7	3575.6	3599.0	3611.7
20°	3473.7	3477.9	3488.6	3497.1	3497.1	3514.0	3520.4	3501.3	3503.4	3528.9	3533.2
22.5°	3346.3	3346.3	3365.4	3378.2	3388.8	3399.4	3418.5	3401.5	3401.5	3435.5	3454.6
25°	3189.2	3204.0	3210.4	3235.9	3250.8	3280.5	3297.5	3299.6	3301.7	3333.6	3346.3
27.5°	3015.1	3019.3	3038.4	3068.2	3085.1	3112.7	3144.6	3151.0	3161.6	3204.0	3223.2
30°	2817.6	2830.3	2838.8	2881.3	2904.7	2940.8	2981.1	2996.0	3004.5	3061.8	3085.1
32.5°	2615.9	2620.1	2656.2	2679.6	2707.2	2745.4	2792.1	2819.7	2836.7	2896.2	2930.1
35°	2414.2	2422.7	2452.4	2482.1	2509.7	2547.9	2596.8	2635.0	2664.7	2717.8	2762.4
37.5°	2229.5	2250.7	2257.1	2286.8	2308.0	2346.2	2380.2	2435.4	2465.1	2520.3	2577.7
40°	2063.8	2070.2	2074.5	2104.2	2119.0	2155.1	2204.0	2240.1	2280.4	2320.8	2388.7
42.5°	1900.3	1904.6	1911.0	1927.9	1944.9	1970.4	2006.5	2042.6	2085.1	2144.5	2189.1
45°	1749.6	1753.8	1758.1	1768.7	1783.6	1806.9	1830.3	1855.8	1898.2	1949.2	1995.9
47.5°	1609.5	1617.9	1617.9	1620.1	1630.7	1649.8	1666.8	1698.6	1722.0	1749.6	1802.7
50°	1475.7	1482.1	1484.2	1484.2	1490.5	1503.3	1507.5	1528.8	1550.0	1575.5	1613.7
52.5°	1350.4	1350.4	1348.3	1356.8	1356.8	1365.3	1367.4	1380.1	1395.0	1422.6	1439.6
55°	1231.5	1231.5	1237.9	1233.6	1233.6	1237.9	1235.8	1237.9	1250.6	1267.6	1282.5
57.5°	1116.9	1114.7	1121.1	1116.9	1114.7	1119.0	1123.2	1114.7	1116.9	1133.8	1133.8
60°	1002.2	1004.3	1010.7	1006.4	1006.4	1006.4	1002.2	997.9	993.7	1004.3	1008.6
62.5°	910.9	904.5	910.9	904.5	908.8	906.6	902.4	893.9	896.0	891.8	887.5
65°	815.3	815.3	817.5	811.1	815.3	815.3	809.0	806.9	794.1	789.9	779.2
67.5°	732.5	732.5	734.7	730.4	730.4	732.5	726.2	719.8	707.1	700.7	685.8
70°	660.3	660.3	660.3	658.2	658.2	658.2	654.0	645.5	632.7	622.1	603.0
72.5°	594.5	596.6	594.5	594.5	600.9	594.5	588.2	579.7	569.0	547.8	530.8
75°	541.4	543.6	541.4	541.4	541.4	539.3	537.2	524.5	511.7	494.7	469.2
77.5°	494.7	494.7	496.8	494.7	494.7	492.6	486.2	475.6	460.8	445.9	416.2
80°	450.1	452.3	454.4	456.5	452.3	450.1	443.8	435.3	416.2	399.2	369.5
82.5°	418.3	416.2	418.3	420.4	416.2	414.0	407.7	397.1	382.2	358.8	329.1
85°	386.4	384.3	384.3	386.4	384.3	380.1	373.7	363.1	348.2	324.9	295.1
87.5°	354.6	356.7	358.8	356.7	354.6	350.3	344.0	333.4	316.4	297.3	265.4
90°	331.2	331.2	331.2	331.2	329.1	324.9	318.5	305.8	290.9	267.5	239.9
92.5°	310.0	310.0	310.0	310.0	307.9	301.5	295.1	284.5	267.5	244.2	218.7
95°	288.8	290.9	288.8	288.8	284.5	282.4	271.8	261.2	246.3	222.9	195.3
97.5°	265.4	267.5	265.4	265.4	263.3	259.0	252.7	239.9	225.1	203.8	178.4
100°	248.4	248.4	246.3	246.3	244.2	239.9	231.4	220.8	206.0	184.7	159.2
102.5°	229.3	231.4	229.3	229.3	225.1	220.8	214.5	203.8	189.0	167.7	144.4
105°	214.5	214.5	212.3	212.3	208.1	203.8	197.5	184.7	172.0	152.9	129.5
107.5°	199.6	199.6	197.5	197.5	193.2	189.0	180.5	169.9	157.1	138.0	116.8
110°	184.7	184.7	184.7	182.6	178.4	172.0	165.6	155.0	142.3	125.3	104.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	174.1	172.0	169.9	167.7	163.5	159.2	150.8	140.1	127.4	112.5	93.4
115°	159.2	159.2	157.1	155.0	150.8	144.4	138.0	129.5	116.8	99.8	82.8
117.5°	146.5	146.5	144.4	142.3	138.0	131.6	125.3	116.8	104.0	89.2	74.3
120°	133.8	133.8	131.6	129.5	125.3	118.9	114.7	104.0	93.4	78.6	65.8
122.5°	123.2	121.0	121.0	116.8	114.7	108.3	101.9	93.4	82.8	70.1	57.3
125°	110.4	110.4	108.3	106.2	104.0	97.7	91.3	82.8	72.2	61.6	51.0
127.5°	99.8	99.8	97.7	95.5	93.4	87.1	80.7	74.3	63.7	53.1	42.5
130°	89.2	89.2	87.1	84.9	82.8	76.4	72.2	63.7	55.2	46.7	36.1
132.5°	80.7	80.7	78.6	76.4	72.2	67.9	63.7	55.2	48.8	40.3	31.8
135°	72.2	70.1	70.1	67.9	63.7	59.5	55.2	48.8	40.3	34.0	25.5
137.5°	63.7	61.6	59.5	57.3	55.2	51.0	46.7	42.5	36.1	27.6	21.2
140°	55.2	53.1	53.1	51.0	46.7	44.6	40.3	34.0	29.7	23.4	17.0
142.5°	46.7	46.7	44.6	42.5	40.3	38.2	34.0	29.7	23.4	19.1	12.7
145°	40.3	38.2	38.2	36.1	34.0	29.7	27.6	23.4	19.1	14.9	10.6
147.5°	31.8	31.8	31.8	29.7	27.6	25.5	23.4	19.1	14.9	10.6	6.4
150°	25.5	25.5	25.5	23.4	21.2	19.1	17.0	14.9	10.6	6.4	4.2
152.5°	21.2	21.2	19.1	19.1	17.0	14.9	12.7	10.6	6.4	4.2	4.2
155°	14.9	14.9	14.9	12.7	12.7	10.6	8.5	6.4	4.2	4.2	4.2
157.5°	10.6	10.6	10.6	8.5	8.5	6.4	6.4	4.2	4.2	4.2	4.2
160°	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1	3860.1
2.5°	3834.7	3832.5	3849.5	3849.5	3830.4	3860.1	3892.0
5°	3821.9	3819.8	3836.8	3836.8	3819.8	3849.5	3883.5
7.5°	3796.4	3798.6	3815.6	3819.8	3798.6	3826.2	3862.3
10°	3768.8	3766.7	3785.8	3790.1	3773.1	3798.6	3832.5
12.5°	3724.2	3724.2	3743.4	3749.7	3732.7	3762.5	3794.3
15°	3677.5	3677.5	3690.3	3700.9	3686.0	3713.6	3745.5
17.5°	3618.1	3616.0	3628.7	3641.4	3626.6	3656.3	3690.3
20°	3541.6	3541.6	3556.5	3571.4	3560.8	3588.4	3626.6
22.5°	3461.0	3452.5	3477.9	3488.6	3482.2	3509.8	3548.0
25°	3359.0	3356.9	3382.4	3397.3	3388.8	3418.5	3452.5
27.5°	3248.6	3246.5	3272.0	3291.1	3286.9	3314.5	3352.7
30°	3114.9	3125.5	3148.8	3180.7	3170.1	3199.8	3240.1
32.5°	2974.7	2985.3	3012.9	3046.9	3049.0	3072.4	3112.7
35°	2807.0	2834.6	2853.7	2898.3	2906.8	2930.1	2972.6
37.5°	2630.8	2662.6	2702.9	2736.9	2753.9	2773.0	2821.9
40°	2433.3	2480.0	2524.6	2564.9	2586.2	2605.3	2652.0
42.5°	2254.9	2291.0	2333.5	2373.8	2412.1	2429.0	2477.9
45°	2053.2	2095.7	2133.9	2182.7	2221.0	2240.1	2288.9
47.5°	1855.8	1898.2	1949.2	1983.2	2023.5	2042.6	2089.3
50°	1666.8	1705.0	1747.5	1787.8	1821.8	1838.8	1879.1
52.5°	1479.9	1520.3	1560.6	1586.1	1622.2	1634.9	1668.9
55°	1314.3	1341.9	1378.0	1392.9	1429.0	1437.5	1460.8
57.5°	1155.1	1174.2	1186.9	1212.4	1237.9	1257.0	1284.6
60°	1010.7	1019.2	1027.7	1042.5	1063.8	1070.1	1080.8
62.5°	881.2	879.0	896.0	900.3	902.4	923.6	913.0
65°	766.5	768.6	753.8	747.4	755.9	762.3	758.0
67.5°	671.0	658.2	645.5	630.6	617.9	624.2	617.9
70°	577.5	566.9	545.7	524.5	516.0	503.2	496.8
72.5°	503.2	477.7	456.5	428.9	414.0	399.2	388.6
75°	445.9	409.8	380.1	350.3	329.1	307.9	303.6
77.5°	386.4	352.5	318.5	286.6	254.8	231.4	222.9
80°	339.7	307.9	267.5	229.3	195.3	165.6	155.0
82.5°	297.3	263.3	222.9	182.6	144.4	112.5	99.8
85°	261.2	225.1	184.7	144.4	106.2	72.2	55.2
87.5°	233.6	193.2	152.9	114.7	74.3	40.3	21.2
90°	208.1	169.9	131.6	91.3	53.1	21.2	0.0
92.5°	184.7	148.6	110.4	74.3	40.3	12.7	2.1
95°	163.5	131.6	93.4	59.5	29.7	8.5	2.1
97.5°	146.5	114.7	80.7	48.8	23.4	6.4	2.1
100°	131.6	99.8	70.1	40.3	19.1	4.2	2.1
102.5°	116.8	89.2	59.5	34.0	14.9	2.1	2.1
105°	104.0	78.6	51.0	29.7	12.7	2.1	2.1
107.5°	93.4	70.1	44.6	25.5	8.5	2.1	2.1
110°	82.8	59.5	38.2	21.2	6.4	2.1	2.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	74.3	53.1	34.0	17.0	4.2	2.1	2.1
115°	65.8	46.7	29.7	14.9	4.2	2.1	2.1
117.5°	57.3	40.3	25.5	10.6	2.1	2.1	2.1
120°	51.0	36.1	21.2	8.5	2.1	2.1	2.1
122.5°	44.6	29.7	17.0	6.4	2.1	2.1	2.1
125°	38.2	25.5	14.9	4.2	2.1	2.1	2.1
127.5°	31.8	21.2	10.6	4.2	2.1	2.1	2.1
130°	27.6	17.0	8.5	2.1	2.1	2.1	2.1
132.5°	23.4	12.7	6.4	2.1	2.1	2.1	2.1
135°	19.1	10.6	4.2	2.1	2.1	2.1	2.1
137.5°	14.9	8.5	4.2	2.1	2.1	2.1	2.1
140°	10.6	6.4	2.1	2.1	2.1	2.1	2.1
142.5°	8.5	4.2	2.1	2.1	2.1	2.1	2.1
145°	6.4	4.2	2.1	2.1	2.1	2.1	2.1
147.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1
150°	4.2	4.2	2.1	2.1	4.2	2.1	2.1
152.5°	4.2	2.1	2.1	2.1	4.2	2.1	2.1
155°	4.2	4.2	4.2	4.2	4.2	4.2	2.1
157.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
160°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)