

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-LD5-98SL-LC-UNV-L940-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-LD5-98SL-LC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

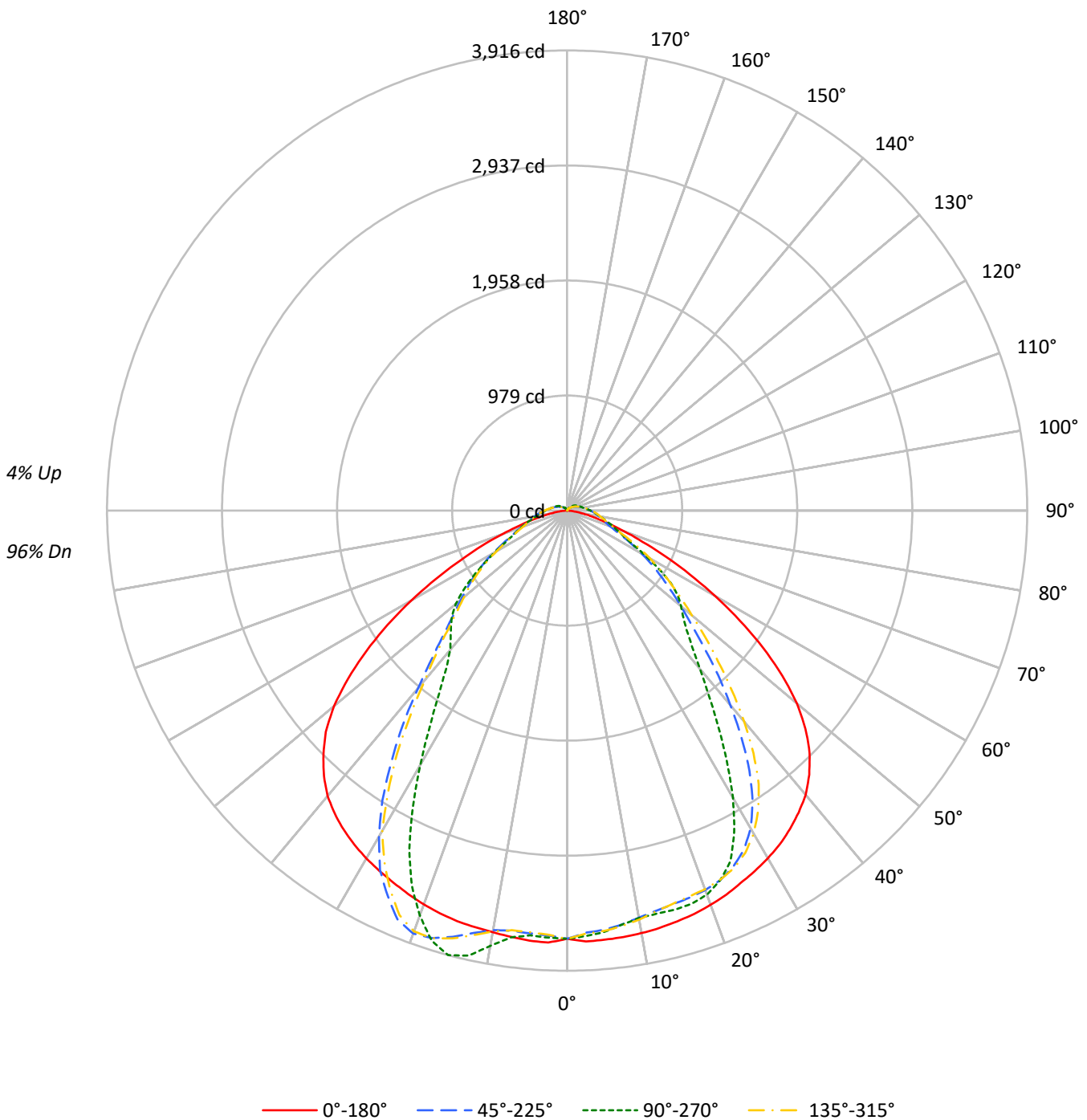
Lumens per Lamp: N/A
Luminaire Lumens: 8686.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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#
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14722	14722	14722	14722
5°	14849	14138	14880	14249
10°	14939	13550	14908	14470
15°	15076	13369	15068	14885
20°	15264	13157	15248	13869
25°	15477	12481	15468	12060
30°	15794	10818	15803	9584
35°	16134	8748	16180	7402
40°	16441	7043	16510	6205
45°	16423	5966	16507	5809
50°	15760	5493	15980	5370
55°	14031	4937	14381	4488
60°	11432	3779	12039	3465
65°	8549	2891	9210	2742
70°	5863	2496	6608	2386
75°	3887	2252	4526	2129
80°	2573	2099	3018	1931
85°	1408	2094	1853	1913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	4.0
10°-20°	1029.8	11.9
20°-30°	1565.5	18.0
30°-40°	1679.4	19.3
40°-50°	1457.6	16.8
50°-60°	1080.2	12.4
60°-70°	618.9	7.1
70°-80°	342.7	3.9
80°-90°	208.7	2.4
90°-100°	135.7	1.6
100°-110°	90.9	1.0
110°-120°	61.4	0.7
120°-130°	37.7	0.4
130°-140°	19.8	0.2
140°-150°	9.0	0.1
150°-160°	2.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2941.4	33.9
0°-40°	4620.8	53.2
0°-60°	7158.5	82.4
0°-90°	8328.9	95.9
90°-120°	288.0	3.3
90°-150°	354.5	4.1
90°-180°	357.0	4.1
0°-180°	8686.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3644	3644	3644	3644	3644	
5°	3666	3600	3674	3628	3666	349
15°	3619	3518	3617	3916	3619	1024
25°	3497	3290	3495	3179	3497	1616
35°	3307	2240	3316	1895	3307	2070
45°	2919	1436	2934	1398	2919	2235
55°	2036	1076	2087	979	2036	1806
65°	924	546	996	518	924	932
75°	264	346	307	328	264	301
85°	36	239	47	218	36	47
90°	0	200	4	184	0	2
95°	2	164	0	156	2	1
105°	2	122	2	117	2	2
115°	2	100	2	90	2	2
125°	2	75	2	62	2	2
135°	2	47	2	40	2	1
145°	2	28	4	23	2	1
155°	4	13	4	11	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3669.9	3660.5	3656.7	3649.2	3654.8	3677.4	3662.4	3637.9	3639.8	3596.5	3619.1
5°	3666.1	3654.8	3649.2	3641.7	3645.4	3666.1	3651.1	3626.6	3624.7	3581.5	3602.2
7.5°	3660.5	3649.2	3639.8	3634.1	3636.0	3653.0	3634.1	3605.9	3600.3	3553.2	3572.0
10°	3651.1	3643.6	3630.4	3621.0	3619.1	3637.9	3607.8	3579.6	3566.4	3517.5	3536.3
12.5°	3637.9	3626.6	3613.4	3596.5	3594.6	3605.9	3581.5	3541.9	3528.8	3489.2	3509.9
15°	3619.1	3605.9	3590.9	3572.0	3562.6	3570.2	3540.0	3504.3	3502.4	3468.5	3496.8
17.5°	3598.4	3579.6	3562.6	3536.3	3523.1	3528.8	3504.3	3472.3	3476.1	3455.4	3487.4
20°	3570.2	3549.5	3523.1	3496.8	3477.9	3487.4	3470.4	3445.9	3451.6	3436.5	3464.8
22.5°	3538.2	3509.9	3477.9	3447.8	3432.8	3445.9	3432.8	3412.1	3414.0	3404.5	3421.5
25°	3496.8	3464.8	3427.1	3389.5	3382.0	3391.4	3383.8	3366.9	3359.4	3344.3	3351.8
27.5°	3459.1	3423.4	3376.3	3336.8	3323.6	3342.4	3325.5	3297.3	3276.6	3255.9	3240.8
30°	3415.8	3372.5	3319.9	3274.7	3263.4	3270.9	3246.5	3203.2	3148.6	3122.2	3080.8
32.5°	3368.8	3312.3	3246.5	3195.6	3188.1	3182.5	3137.3	3075.2	2990.5	2937.8	2873.8
35°	3306.7	3244.6	3165.5	3103.4	3092.1	3060.1	2986.7	2903.9	2794.8	2704.4	2595.3
37.5°	3237.0	3163.6	3080.8	2998.0	2966.0	2902.0	2798.5	2712.0	2546.3	2437.2	2305.5
40°	3158.0	3069.5	2967.9	2868.2	2815.5	2712.0	2593.4	2465.4	2305.5	2158.7	2047.6
42.5°	3048.8	2954.7	2834.3	2723.3	2632.9	2495.5	2356.3	2175.6	2028.8	1904.6	1791.7
45°	2919.0	2806.1	2666.8	2533.2	2418.4	2254.6	2090.9	1910.2	1787.9	1643.0	1565.8
47.5°	2751.5	2629.2	2480.5	2331.8	2181.2	2000.6	1829.3	1656.2	1533.8	1430.3	1373.9
50°	2553.9	2441.0	2277.2	2100.3	1934.7	1746.5	1575.2	1445.4	1326.8	1262.8	1219.5
52.5°	2309.2	2203.8	2036.3	1844.4	1684.4	1500.0	1343.7	1238.4	1153.7	1106.6	1091.6
55°	2036.3	1944.1	1778.5	1599.7	1436.0	1266.6	1148.0	1055.8	1001.2	973.0	974.9
57.5°	1744.6	1673.1	1516.9	1356.9	1202.6	1074.6	967.3	894.0	852.5	850.7	856.3
60°	1452.9	1400.2	1264.7	1127.3	991.8	888.3	809.3	758.4	732.1	734.0	732.1
62.5°	1174.4	1125.4	1027.6	914.7	807.4	737.7	666.2	645.5	622.9	621.1	621.1
65°	924.1	886.4	807.4	726.5	645.5	600.4	564.6	540.1	523.2	519.4	521.3
67.5°	694.5	679.4	624.8	570.2	519.4	491.2	461.1	455.4	442.3	442.3	446.0
70°	517.6	506.3	476.1	444.2	423.5	404.6	389.6	389.6	387.7	385.8	395.2
72.5°	374.5	376.4	367.0	342.5	340.6	336.9	333.1	338.8	340.6	346.3	357.6
75°	263.5	269.1	269.1	265.4	272.9	282.3	287.9	297.4	308.6	316.2	329.4
77.5°	186.3	186.3	195.7	207.0	222.1	239.0	254.1	267.2	282.3	291.7	303.0
80°	120.4	126.1	141.2	161.9	182.6	205.1	225.8	242.8	257.8	272.9	280.4
82.5°	71.5	80.9	99.7	126.1	152.4	180.7	201.4	222.1	239.0	254.1	259.7
85°	35.8	48.9	71.5	99.7	128.0	158.1	184.4	203.3	222.1	235.3	242.8
87.5°	11.3	26.3	50.8	77.2	107.3	137.4	165.6	186.3	203.3	214.5	222.1
90°	0.0	13.2	35.8	64.0	92.2	122.3	148.7	171.3	188.2	197.6	203.3
92.5°	0.0	7.5	28.2	52.7	79.0	109.2	135.5	156.2	171.3	180.7	184.4
95°	1.9	5.6	20.7	43.3	69.6	97.9	122.3	141.2	156.2	165.6	167.5
97.5°	1.9	3.8	16.9	35.8	60.2	86.6	111.0	129.9	141.2	150.6	152.4
100°	1.9	3.8	13.2	32.0	52.7	77.2	99.7	116.7	129.9	137.4	139.3
102.5°	1.9	1.9	11.3	26.3	47.1	67.8	88.5	105.4	116.7	124.2	128.0
105°	1.9	1.9	9.4	22.6	41.4	60.2	79.0	96.0	105.4	112.9	116.7
107.5°	1.9	1.9	7.5	18.8	35.8	52.7	71.5	84.7	96.0	103.5	107.3
110°	1.9	1.9	5.6	16.9	30.1	47.1	62.1	75.3	86.6	94.1	97.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.9	1.9	5.6	15.1	26.3	41.4	54.6	67.8	77.2	84.7	90.3
115°	1.9	1.9	5.6	13.2	24.5	35.8	48.9	60.2	69.6	77.2	82.8
117.5°	1.9	1.9	5.6	11.3	20.7	32.0	43.3	54.6	62.1	69.6	75.3
120°	1.9	1.9	3.8	9.4	18.8	28.2	37.6	47.1	56.5	64.0	69.6
122.5°	1.9	1.9	3.8	9.4	15.1	24.5	33.9	41.4	50.8	56.5	62.1
125°	1.9	1.9	3.8	7.5	13.2	22.6	30.1	37.6	43.3	50.8	56.5
127.5°	1.9	1.9	3.8	7.5	11.3	18.8	26.3	33.9	39.5	45.2	48.9
130°	1.9	1.9	3.8	5.6	9.4	15.1	22.6	28.2	35.8	39.5	43.3
132.5°	1.9	1.9	1.9	5.6	7.5	11.3	16.9	24.5	30.1	35.8	37.6
135°	1.9	1.9	1.9	3.8	7.5	9.4	13.2	18.8	24.5	30.1	33.9
137.5°	1.9	1.9	1.9	3.8	5.6	9.4	11.3	15.1	20.7	24.5	30.1
140°	1.9	1.9	1.9	3.8	5.6	7.5	9.4	13.2	16.9	20.7	24.5
142.5°	1.9	1.9	1.9	3.8	3.8	5.6	7.5	11.3	13.2	16.9	20.7
145°	1.9	1.9	1.9	3.8	3.8	5.6	7.5	9.4	11.3	13.2	16.9
147.5°	1.9	1.9	1.9	3.8	3.8	3.8	5.6	7.5	9.4	11.3	13.2
150°	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	7.5	9.4	11.3
152.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	5.6	7.5	9.4
155°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	7.5	7.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3611.6	3615.3	3637.9	3636.0	3632.3	3628.5	3628.5	3624.7	3628.5	3637.9	3634.1
5°	3592.7	3598.4	3615.3	3613.4	3609.7	3607.8	3605.9	3600.3	3604.0	3617.2	3613.4
7.5°	3558.9	3564.5	3579.6	3572.0	3566.4	3570.2	3560.7	3555.1	3562.6	3575.8	3573.9
10°	3523.1	3526.9	3545.7	3541.9	3532.5	3534.4	3525.0	3521.2	3530.6	3538.2	3540.0
12.5°	3498.6	3511.8	3528.8	3526.9	3525.0	3526.9	3517.5	3513.7	3519.3	3526.9	3525.0
15°	3493.0	3509.9	3528.8	3528.8	3530.6	3532.5	3523.1	3517.5	3523.1	3528.8	3526.9
17.5°	3487.4	3508.1	3525.0	3523.1	3525.0	3528.8	3513.7	3509.9	3517.5	3525.0	3521.2
20°	3468.5	3487.4	3498.6	3494.9	3494.9	3496.8	3477.9	3477.9	3489.2	3494.9	3496.8
22.5°	3415.8	3438.4	3438.4	3429.0	3429.0	3421.5	3415.8	3404.5	3417.7	3427.1	3434.7
25°	3336.8	3346.2	3334.9	3314.2	3302.9	3293.5	3267.2	3289.7	3289.7	3318.0	3327.4
27.5°	3225.8	3205.1	3173.1	3129.8	3120.4	3090.2	3073.3	3079.0	3088.4	3127.9	3158.0
30°	3043.2	2981.1	2926.5	2907.7	2866.3	2836.2	2806.1	2821.1	2838.1	2860.6	2922.7
32.5°	2802.3	2742.1	2653.6	2621.6	2578.3	2540.7	2504.9	2527.5	2557.6	2572.7	2640.4
35°	2525.6	2454.1	2373.2	2318.6	2273.5	2252.8	2207.6	2239.6	2271.6	2282.9	2341.2
37.5°	2232.1	2158.7	2087.1	2040.1	1996.8	1983.6	1953.5	1976.1	2000.6	2017.5	2066.4
40°	1953.5	1885.8	1831.2	1799.2	1769.1	1757.8	1746.5	1755.9	1774.7	1787.9	1825.5
42.5°	1714.5	1659.9	1622.3	1603.5	1582.8	1567.7	1569.6	1573.4	1582.8	1611.0	1627.9
45°	1505.6	1473.6	1449.1	1445.4	1432.2	1430.3	1428.4	1436.0	1441.6	1458.6	1471.7
47.5°	1338.1	1324.9	1319.3	1326.8	1332.5	1324.9	1328.7	1338.1	1349.4	1349.4	1347.5
50°	1206.4	1210.1	1217.7	1234.6	1245.9	1249.6	1253.4	1264.7	1266.6	1270.4	1264.7
52.5°	1099.1	1102.9	1123.6	1149.9	1163.1	1168.7	1176.3	1187.5	1187.5	1191.3	1183.8
55°	989.9	995.6	1016.3	1042.6	1053.9	1061.4	1069.0	1076.5	1082.2	1089.7	1084.0
57.5°	869.5	886.4	899.6	907.1	914.7	920.3	925.9	927.8	939.1	941.0	950.4
60°	741.5	745.3	758.4	756.6	750.9	766.0	758.4	771.6	784.8	801.7	803.6
62.5°	619.2	621.1	630.5	626.7	634.2	632.4	638.0	638.0	647.4	654.9	664.3
65°	523.2	525.1	532.6	532.6	530.7	536.4	542.0	545.8	545.8	551.4	559.0
67.5°	451.7	457.3	464.9	468.6	472.4	472.4	478.0	479.9	483.7	485.6	489.3
70°	402.7	410.3	417.8	421.6	423.5	427.2	429.1	429.1	432.9	434.7	438.5
72.5°	367.0	374.5	380.2	380.2	383.9	385.8	385.8	387.7	389.6	393.3	397.1
75°	336.9	342.5	346.3	344.4	344.4	344.4	346.3	346.3	350.1	353.8	357.6
77.5°	308.6	314.3	314.3	310.5	310.5	310.5	310.5	312.4	314.3	318.1	321.8
80°	287.9	287.9	286.1	286.1	282.3	280.4	280.4	282.3	282.3	286.1	291.7
82.5°	265.4	265.4	263.5	261.6	259.7	257.8	257.8	259.7	261.6	263.5	267.2
85°	244.7	244.7	240.9	240.9	239.0	239.0	239.0	239.0	240.9	242.8	246.5
87.5°	224.0	222.1	220.2	218.3	218.3	218.3	218.3	218.3	220.2	224.0	225.8
90°	203.3	201.4	199.5	199.5	197.6	197.6	199.5	199.5	201.4	203.3	205.1
92.5°	184.4	182.6	180.7	180.7	178.8	178.8	180.7	178.8	182.6	182.6	184.4
95°	167.5	165.6	163.7	163.7	163.7	163.7	163.7	163.7	165.6	165.6	167.5
97.5°	152.4	150.6	148.7	148.7	150.6	148.7	150.6	150.6	150.6	152.4	154.3
100°	139.3	137.4	137.4	139.3	137.4	137.4	139.3	139.3	139.3	139.3	141.2
102.5°	128.0	128.0	128.0	128.0	128.0	128.0	129.9	129.9	129.9	129.9	131.7
105°	116.7	118.6	118.6	118.6	120.4	120.4	120.4	122.3	122.3	122.3	122.3
107.5°	109.2	111.0	111.0	112.9	112.9	114.8	114.8	114.8	114.8	116.7	116.7
110°	101.6	103.5	105.4	107.3	107.3	109.2	109.2	109.2	109.2	109.2	109.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	94.1	96.0	97.9	101.6	103.5	103.5	103.5	103.5	105.4	105.4	103.5
115°	86.6	90.3	92.2	96.0	97.9	97.9	99.7	99.7	99.7	99.7	97.9
117.5°	79.0	84.7	86.6	90.3	92.2	92.2	94.1	94.1	94.1	94.1	92.2
120°	73.4	77.2	80.9	82.8	84.7	86.6	86.6	88.5	88.5	88.5	86.6
122.5°	67.8	71.5	75.3	77.2	79.0	80.9	80.9	80.9	80.9	80.9	80.9
125°	60.2	64.0	67.8	69.6	71.5	73.4	73.4	75.3	75.3	75.3	73.4
127.5°	54.6	58.3	60.2	64.0	65.9	65.9	67.8	67.8	67.8	67.8	65.9
130°	47.1	50.8	54.6	56.5	58.3	58.3	60.2	60.2	60.2	60.2	60.2
132.5°	41.4	45.2	47.1	50.8	50.8	52.7	52.7	54.6	54.6	54.6	52.7
135°	37.6	39.5	41.4	45.2	45.2	47.1	47.1	47.1	47.1	47.1	47.1
137.5°	33.9	35.8	37.6	39.5	39.5	41.4	41.4	41.4	41.4	43.3	41.4
140°	28.2	32.0	33.9	33.9	35.8	35.8	35.8	37.6	37.6	37.6	35.8
142.5°	24.5	26.3	28.2	30.1	32.0	32.0	32.0	32.0	33.9	32.0	32.0
145°	18.8	22.6	24.5	26.3	28.2	28.2	28.2	28.2	28.2	28.2	28.2
147.5°	15.1	16.9	20.7	22.6	22.6	24.5	24.5	24.5	24.5	24.5	24.5
150°	13.2	13.2	16.9	18.8	20.7	20.7	20.7	20.7	20.7	20.7	20.7
152.5°	9.4	11.3	13.2	15.1	16.9	16.9	16.9	16.9	16.9	16.9	16.9
155°	9.4	9.4	11.3	11.3	13.2	13.2	13.2	13.2	15.1	13.2	13.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3628.5	3626.6	3634.1	3626.6	3589.0	3604.0	3598.4	3619.1	3621.0	3626.6	3645.4
5°	3609.7	3609.7	3619.1	3611.6	3575.8	3590.9	3589.0	3609.7	3613.4	3617.2	3637.9
7.5°	3572.0	3573.9	3587.1	3581.5	3543.8	3566.4	3564.5	3589.0	3596.5	3604.0	3622.9
10°	3536.3	3534.4	3549.5	3543.8	3508.1	3534.4	3532.5	3557.0	3568.3	3581.5	3604.0
12.5°	3517.5	3511.8	3517.5	3511.8	3472.3	3493.0	3494.9	3523.1	3536.3	3553.2	3579.6
15°	3517.5	3508.1	3508.1	3496.8	3451.6	3464.8	3466.6	3485.5	3502.4	3519.3	3551.3
17.5°	3513.7	3504.3	3502.4	3493.0	3444.1	3444.1	3442.2	3455.4	3464.8	3481.7	3515.6
20°	3493.0	3489.2	3487.4	3481.7	3436.5	3429.0	3425.2	3425.2	3430.9	3436.5	3470.4
22.5°	3438.4	3442.2	3445.9	3449.7	3414.0	3400.8	3402.7	3398.9	3393.3	3393.3	3421.5
25°	3336.8	3355.6	3370.7	3387.6	3366.9	3357.5	3368.8	3363.1	3353.7	3346.2	3370.7
27.5°	3174.9	3214.5	3246.5	3287.9	3289.7	3282.2	3312.3	3308.6	3306.7	3295.4	3314.2
30°	2951.0	3013.1	3056.4	3116.6	3167.4	3174.9	3225.8	3233.3	3240.8	3235.2	3254.0
32.5°	2680.0	2764.7	2838.1	2932.2	2981.1	3024.4	3095.9	3126.0	3156.1	3165.5	3186.2
35°	2384.5	2480.5	2567.1	2670.6	2747.7	2841.8	2928.4	2973.6	3041.3	3067.7	3097.8
37.5°	2104.1	2194.4	2279.1	2382.6	2506.8	2604.7	2712.0	2813.6	2905.8	2943.5	2988.6
40°	1855.7	1929.1	2010.0	2100.3	2213.2	2341.2	2457.9	2599.0	2708.2	2783.5	2849.4
42.5°	1667.5	1703.2	1772.8	1853.8	1944.1	2074.0	2192.5	2350.6	2482.4	2589.6	2698.8
45°	1500.0	1516.9	1567.7	1611.0	1703.2	1818.0	1944.1	2098.4	2235.8	2373.2	2504.9
47.5°	1356.9	1377.6	1402.1	1428.4	1494.3	1590.3	1699.4	1838.7	1976.1	2136.1	2286.6
50°	1260.9	1266.6	1270.4	1281.6	1321.2	1387.0	1475.5	1594.1	1725.8	1897.1	2057.0
52.5°	1176.3	1176.3	1165.0	1159.3	1174.4	1215.8	1266.6	1351.3	1486.8	1644.9	1814.3
55°	1085.9	1069.0	1065.2	1046.4	1050.2	1069.0	1093.4	1159.3	1270.4	1405.9	1569.6
57.5°	959.8	952.3	952.3	944.8	929.7	939.1	944.8	991.8	1070.9	1187.5	1330.6
60°	814.9	811.1	820.6	822.4	809.3	814.9	813.0	841.3	897.7	991.8	1110.4
62.5°	670.0	686.9	688.8	696.3	688.8	686.9	696.3	720.8	749.0	820.6	912.8
65°	562.7	572.1	574.0	583.4	579.7	579.7	587.2	606.0	622.9	671.9	743.4
67.5°	493.1	489.3	491.2	496.8	491.2	489.3	495.0	506.3	519.4	549.5	600.4
70°	438.5	434.7	434.7	434.7	427.2	421.6	423.5	427.2	432.9	449.8	481.8
72.5°	397.1	397.1	391.5	385.8	380.2	376.4	372.6	368.9	367.0	372.6	389.6
75°	359.5	361.3	359.5	353.8	346.3	338.8	331.2	323.7	314.3	310.5	312.4
77.5°	325.6	327.5	329.4	327.5	319.9	310.5	299.2	287.9	274.8	261.6	254.1
80°	295.5	299.2	301.1	299.2	293.6	286.1	272.9	259.7	240.9	224.0	205.1
82.5°	269.1	274.8	276.7	276.7	272.9	265.4	250.3	235.3	214.5	192.0	167.5
85°	248.4	252.2	256.0	256.0	254.1	246.5	231.5	214.5	193.8	167.5	141.2
87.5°	227.7	229.6	233.4	237.1	233.4	225.8	212.7	193.8	173.1	146.8	116.7
90°	207.0	208.9	212.7	216.4	214.5	207.0	195.7	178.8	156.2	128.0	97.9
92.5°	186.3	190.1	192.0	193.8	195.7	190.1	180.7	163.7	141.2	112.9	84.7
95°	171.3	171.3	175.0	176.9	178.8	173.1	165.6	148.7	128.0	101.6	73.4
97.5°	156.2	156.2	160.0	160.0	161.9	158.1	150.6	135.5	114.8	90.3	62.1
100°	141.2	143.0	144.9	146.8	146.8	144.9	137.4	122.3	103.5	80.9	54.6
102.5°	131.7	131.7	133.6	133.6	135.5	131.7	124.2	111.0	92.2	71.5	47.1
105°	122.3	122.3	124.2	124.2	122.3	118.6	111.0	99.7	82.8	62.1	41.4
107.5°	114.8	114.8	114.8	114.8	112.9	109.2	101.6	88.5	73.4	56.5	37.6
110°	109.2	107.3	107.3	105.4	103.5	97.9	90.3	79.0	65.9	48.9	32.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	103.5	101.6	99.7	97.9	94.1	88.5	80.9	71.5	58.3	43.3	28.2
115°	97.9	96.0	94.1	90.3	86.6	80.9	73.4	64.0	50.8	37.6	24.5
117.5°	92.2	90.3	86.6	82.8	79.0	73.4	65.9	56.5	45.2	33.9	22.6
120°	84.7	82.8	80.9	77.2	73.4	65.9	58.3	50.8	39.5	30.1	18.8
122.5°	79.0	77.2	73.4	71.5	65.9	60.2	52.7	45.2	35.8	26.3	16.9
125°	71.5	69.6	67.8	64.0	60.2	52.7	47.1	39.5	32.0	22.6	13.2
127.5°	65.9	64.0	60.2	56.5	52.7	47.1	41.4	35.8	28.2	18.8	13.2
130°	58.3	56.5	54.6	50.8	47.1	41.4	37.6	30.1	24.5	16.9	11.3
132.5°	50.8	50.8	48.9	45.2	41.4	37.6	32.0	26.3	20.7	15.1	9.4
135°	47.1	45.2	43.3	39.5	37.6	32.0	28.2	22.6	16.9	13.2	7.5
137.5°	41.4	39.5	37.6	35.8	32.0	28.2	24.5	18.8	15.1	11.3	7.5
140°	35.8	33.9	33.9	30.1	28.2	24.5	20.7	16.9	13.2	9.4	5.6
142.5°	32.0	30.1	28.2	26.3	24.5	20.7	16.9	13.2	11.3	7.5	5.6
145°	28.2	26.3	24.5	22.6	20.7	16.9	15.1	11.3	9.4	7.5	5.6
147.5°	22.6	22.6	20.7	18.8	16.9	15.1	13.2	11.3	7.5	5.6	3.8
150°	18.8	18.8	16.9	15.1	15.1	13.2	11.3	9.4	7.5	5.6	3.8
152.5°	16.9	15.1	15.1	13.2	13.2	11.3	9.4	7.5	5.6	5.6	3.8
155°	13.2	13.2	13.2	11.3	11.3	9.4	7.5	7.5	5.6	3.8	3.8
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-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3649.2	3626.6	3645.4	3679.3	3675.6	3671.8	3668.0	3675.6	3700.0	3686.8	3666.1
5°	3643.6	3621.0	3641.7	3673.7	3671.8	3666.1	3662.4	3669.9	3694.4	3681.2	3658.6
7.5°	3632.3	3611.6	3626.6	3658.6	3658.6	3654.8	3651.1	3658.6	3681.2	3669.9	3647.3
10°	3613.4	3598.4	3613.4	3643.6	3645.4	3637.9	3634.1	3643.6	3666.1	3660.5	3641.7
12.5°	3598.4	3583.3	3600.3	3630.4	3632.3	3624.7	3619.1	3630.4	3660.5	3664.3	3658.6
15°	3577.7	3564.5	3585.2	3617.2	3617.2	3611.6	3611.6	3626.6	3668.0	3685.0	3694.4
17.5°	3547.6	3538.2	3562.6	3594.6	3596.5	3592.7	3594.6	3624.7	3679.3	3720.7	3747.1
20°	3509.9	3506.2	3532.5	3566.4	3572.0	3573.9	3583.3	3628.5	3703.8	3760.2	3786.6
22.5°	3464.8	3466.6	3496.8	3532.5	3540.0	3545.7	3564.5	3628.5	3722.6	3782.8	3794.1
25°	3414.0	3419.6	3451.6	3494.9	3504.3	3515.6	3547.6	3630.4	3728.2	3767.8	3748.9
27.5°	3359.4	3370.7	3412.1	3457.2	3468.5	3487.4	3528.8	3619.1	3701.9	3703.8	3634.1
30°	3302.9	3316.1	3365.0	3417.7	3436.5	3455.4	3506.2	3592.7	3637.9	3577.7	3455.4
32.5°	3238.9	3257.7	3306.7	3370.7	3393.3	3417.7	3468.5	3541.9	3525.0	3395.1	3220.1
35°	3158.0	3184.3	3240.8	3316.1	3336.8	3368.8	3404.5	3421.5	3346.2	3161.8	2964.2
37.5°	3058.3	3097.8	3163.6	3250.2	3272.8	3293.5	3302.9	3255.9	3105.3	2905.8	2700.7
40°	2943.5	3003.7	3075.2	3171.2	3193.8	3193.8	3159.9	3060.1	2870.1	2608.5	2380.7
42.5°	2804.2	2877.6	2967.9	3063.9	3086.5	3060.1	2979.2	2804.2	2587.8	2296.0	2055.1
45°	2634.8	2732.7	2834.3	2934.0	2945.3	2887.0	2742.1	2520.0	2252.8	1981.7	1752.1
47.5°	2433.4	2561.4	2672.4	2785.4	2770.3	2672.4	2478.6	2226.4	1944.1	1688.2	1503.7
50°	2207.6	2358.1	2482.4	2589.6	2557.6	2422.1	2194.4	1930.9	1650.5	1432.2	1279.8
52.5°	1966.7	2139.8	2264.0	2350.6	2307.3	2145.5	1895.2	1643.0	1413.4	1213.9	1112.3
55°	1716.4	1891.4	2019.4	2087.1	2030.7	1855.7	1609.1	1379.5	1163.1	1033.2	973.0
57.5°	1473.6	1637.3	1757.8	1812.4	1740.9	1565.8	1338.1	1144.3	988.1	878.9	848.8
60°	1240.2	1373.9	1488.7	1530.1	1452.9	1291.1	1095.3	941.0	826.2	750.9	735.9
62.5°	1023.8	1133.0	1223.3	1255.3	1180.0	1053.9	884.5	769.7	688.8	651.2	632.4
65°	845.0	909.0	1001.2	995.6	950.4	833.7	709.5	628.6	575.9	551.4	540.1
67.5°	664.3	722.7	781.0	788.6	732.1	651.2	570.2	511.9	483.7	470.5	464.9
70°	513.8	557.1	592.8	583.4	553.3	502.5	451.7	419.7	408.4	402.7	402.7
72.5°	399.0	421.6	438.5	427.2	408.4	382.0	357.6	344.4	346.3	350.1	353.8
75°	308.6	314.3	318.1	306.8	303.0	286.1	284.2	286.1	297.4	308.6	314.3
77.5°	237.1	229.6	224.0	212.7	214.5	212.7	222.1	237.1	254.1	271.0	286.1
80°	182.6	165.6	152.4	141.2	146.8	156.2	175.0	197.6	220.2	239.0	257.8
82.5°	141.2	116.7	97.9	86.6	97.9	112.9	137.4	165.6	192.0	212.7	233.4
85°	109.2	80.9	58.3	47.1	58.3	80.9	107.3	139.3	167.5	190.1	210.8
87.5°	84.7	58.3	32.0	18.8	32.0	56.5	86.6	116.7	144.9	171.3	192.0
90°	67.8	39.5	15.1	3.8	16.9	39.5	67.8	97.9	126.1	154.3	175.0
92.5°	54.6	28.2	7.5	0.0	9.4	30.1	56.5	84.7	112.9	139.3	160.0
95°	45.2	22.6	5.6	0.0	7.5	22.6	45.2	73.4	99.7	126.1	143.0
97.5°	37.6	16.9	3.8	0.0	3.8	18.8	37.6	62.1	88.5	112.9	129.9
100°	32.0	15.1	3.8	0.0	3.8	15.1	32.0	54.6	77.2	99.7	116.7
102.5°	26.3	11.3	1.9	1.9	1.9	11.3	28.2	47.1	67.8	88.5	105.4
105°	24.5	9.4	1.9	1.9	1.9	9.4	24.5	41.4	60.2	79.0	94.1
107.5°	20.7	7.5	1.9	1.9	1.9	7.5	20.7	35.8	54.6	71.5	84.7
110°	16.9	7.5	1.9	1.9	1.9	7.5	16.9	32.0	47.1	62.1	75.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.1	5.6	1.9	1.9	1.9	5.6	15.1	28.2	41.4	56.5	67.8
115°	13.2	5.6	1.9	1.9	1.9	5.6	13.2	24.5	35.8	48.9	60.2
117.5°	11.3	5.6	1.9	1.9	1.9	3.8	11.3	20.7	32.0	43.3	54.6
120°	9.4	3.8	1.9	1.9	1.9	3.8	9.4	18.8	28.2	37.6	47.1
122.5°	9.4	3.8	1.9	1.9	1.9	3.8	7.5	15.1	24.5	32.0	41.4
125°	7.5	3.8	1.9	1.9	1.9	1.9	7.5	13.2	20.7	28.2	35.8
127.5°	7.5	3.8	1.9	1.9	1.9	1.9	5.6	11.3	16.9	24.5	32.0
130°	5.6	3.8	1.9	1.9	1.9	1.9	3.8	9.4	15.1	20.7	26.3
132.5°	5.6	3.8	1.9	1.9	1.9	1.9	3.8	7.5	11.3	16.9	22.6
135°	5.6	1.9	1.9	1.9	1.9	1.9	1.9	5.6	9.4	13.2	16.9
137.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	3.8	7.5	9.4	15.1
140°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.6	7.5	11.3
142.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.6	9.4
145°	3.8	1.9	1.9	3.8	3.8	1.9	1.9	3.8	3.8	5.6	7.5
147.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6
150°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.6
152.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
155°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3662.4	3619.1	3641.7	3634.1	3641.7	3660.5	3658.6	3653.0	3656.7	3647.3	3637.9
5°	3654.8	3611.6	3634.1	3624.7	3634.1	3653.0	3649.2	3643.6	3649.2	3637.9	3628.5
7.5°	3645.4	3605.9	3632.3	3630.4	3647.3	3671.8	3673.7	3673.7	3686.8	3669.9	3662.4
10°	3645.4	3624.7	3660.5	3673.7	3717.0	3748.9	3752.7	3760.2	3782.8	3779.1	3760.2
12.5°	3685.0	3681.2	3733.9	3765.9	3805.4	3850.6	3875.0	3882.6	3897.6	3886.3	3878.8
15°	3735.8	3754.6	3812.9	3848.7	3892.0	3925.9	3931.5	3935.3	3946.6	3929.6	3916.4
17.5°	3803.5	3814.8	3861.9	3876.9	3905.2	3910.8	3903.3	3884.5	3884.5	3846.8	3835.5
20°	3835.5	3829.9	3848.7	3824.2	3812.9	3779.1	3747.1	3711.3	3709.4	3669.9	3666.1
22.5°	3807.3	3769.7	3730.1	3669.9	3643.6	3594.6	3551.3	3530.6	3517.5	3466.6	3453.5
25°	3707.5	3615.3	3557.0	3485.5	3421.5	3365.0	3323.6	3280.3	3238.9	3197.5	3178.7
27.5°	3534.4	3447.8	3353.7	3254.0	3165.5	3079.0	3009.3	2966.0	2926.5	2871.9	2843.7
30°	3321.7	3201.3	3097.8	3001.8	2856.9	2751.5	2693.1	2606.6	2576.5	2552.0	2499.3
32.5°	3071.4	2926.5	2785.4	2655.5	2506.8	2409.0	2331.8	2267.8	2249.0	2185.0	2169.9
35°	2794.8	2604.7	2444.7	2316.7	2209.5	2090.9	2026.9	1983.6	1946.0	1902.7	1895.2
37.5°	2469.2	2297.9	2117.3	2004.3	1919.6	1818.0	1769.1	1739.0	1722.0	1690.0	1684.4
40°	2141.7	1970.5	1846.2	1733.3	1680.6	1626.1	1590.3	1577.1	1569.6	1558.3	1547.0
42.5°	1844.4	1693.8	1605.3	1530.1	1507.5	1481.1	1471.7	1479.3	1471.7	1468.0	1466.1
45°	1592.2	1477.4	1415.3	1392.7	1387.0	1379.5	1387.0	1400.2	1402.1	1398.3	1398.3
47.5°	1362.6	1308.0	1281.6	1285.4	1294.8	1300.5	1313.6	1330.6	1334.3	1324.9	1328.7
50°	1212.0	1180.0	1174.4	1189.4	1210.1	1217.7	1232.7	1245.9	1244.0	1240.2	1236.5
52.5°	1070.9	1061.4	1076.5	1091.6	1114.1	1117.9	1123.6	1129.2	1127.3	1119.8	1116.0
55°	952.3	959.8	973.0	978.6	995.6	993.7	995.6	995.6	988.1	984.3	978.6
57.5°	845.0	846.9	854.4	856.3	865.7	862.0	860.1	856.3	845.0	843.1	837.5
60°	735.9	732.1	749.0	735.9	743.4	735.9	734.0	724.6	713.3	711.4	707.6
62.5°	632.4	624.8	636.1	630.5	634.2	626.7	622.9	611.7	602.2	600.4	598.5
65°	540.1	536.4	547.7	545.8	549.5	540.1	536.4	528.8	521.3	519.4	517.6
67.5°	463.0	472.4	478.0	478.0	481.8	479.9	470.5	468.6	466.7	459.2	459.2
70°	406.5	412.2	423.5	425.3	423.5	427.2	419.7	417.8	415.9	412.2	410.3
72.5°	361.3	368.9	380.2	382.0	380.2	380.2	376.4	374.5	374.5	368.9	368.9
75°	325.6	335.0	344.4	344.4	344.4	340.6	336.9	336.9	333.1	331.2	327.5
77.5°	295.5	306.8	314.3	312.4	310.5	306.8	306.8	301.1	295.5	295.5	291.7
80°	272.9	280.4	286.1	284.2	282.3	276.7	274.8	269.1	265.4	259.7	259.7
82.5°	248.4	257.8	261.6	259.7	256.0	250.3	248.4	244.7	240.9	239.0	235.3
85°	227.7	237.1	239.0	235.3	231.5	227.7	225.8	224.0	222.1	218.3	218.3
87.5°	207.0	216.4	216.4	214.5	210.8	208.9	207.0	205.1	203.3	201.4	199.5
90°	190.1	197.6	197.6	195.7	193.8	192.0	190.1	188.2	186.3	184.4	184.4
92.5°	173.1	180.7	180.7	178.8	176.9	175.0	175.0	173.1	171.3	169.4	167.5
95°	158.1	165.6	165.6	165.6	163.7	161.9	161.9	160.0	158.1	158.1	156.2
97.5°	143.0	150.6	150.6	150.6	148.7	146.8	146.8	144.9	144.9	144.9	143.0
100°	129.9	135.5	137.4	137.4	135.5	135.5	135.5	133.6	133.6	133.6	131.7
102.5°	116.7	122.3	126.1	126.1	126.1	124.2	124.2	124.2	124.2	124.2	122.3
105°	105.4	111.0	114.8	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7
107.5°	96.0	101.6	105.4	107.3	109.2	109.2	111.0	111.0	111.0	111.0	111.0
110°	86.6	92.2	97.9	99.7	101.6	103.5	103.5	105.4	103.5	103.5	103.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	77.2	84.7	88.5	92.2	94.1	96.0	97.9	97.9	97.9	97.9	97.9
115°	69.6	77.2	80.9	84.7	88.5	90.3	90.3	92.2	92.2	92.2	90.3
117.5°	62.1	69.6	73.4	77.2	79.0	82.8	84.7	84.7	84.7	84.7	82.8
120°	56.5	62.1	65.9	69.6	73.4	75.3	77.2	77.2	77.2	77.2	77.2
122.5°	48.9	54.6	60.2	64.0	65.9	67.8	69.6	69.6	69.6	69.6	69.6
125°	43.3	48.9	52.7	56.5	58.3	62.1	62.1	62.1	62.1	62.1	62.1
127.5°	37.6	43.3	47.1	50.8	52.7	54.6	56.5	56.5	56.5	56.5	56.5
130°	32.0	37.6	41.4	45.2	47.1	48.9	48.9	50.8	50.8	50.8	50.8
132.5°	28.2	32.0	35.8	39.5	41.4	43.3	43.3	45.2	45.2	45.2	45.2
135°	22.6	28.2	30.1	33.9	35.8	37.6	37.6	39.5	39.5	39.5	39.5
137.5°	18.8	22.6	26.3	30.1	32.0	32.0	33.9	33.9	35.8	35.8	35.8
140°	15.1	16.9	22.6	24.5	26.3	28.2	30.1	30.1	30.1	30.1	30.1
142.5°	11.3	15.1	16.9	20.7	22.6	24.5	26.3	26.3	26.3	26.3	26.3
145°	9.4	11.3	13.2	16.9	18.8	20.7	22.6	22.6	22.6	22.6	22.6
147.5°	7.5	9.4	11.3	13.2	15.1	16.9	18.8	18.8	18.8	18.8	18.8
150°	5.6	7.5	9.4	9.4	11.3	13.2	15.1	16.9	16.9	16.9	16.9
152.5°	5.6	5.6	7.5	7.5	9.4	11.3	13.2	13.2	13.2	13.2	13.2
155°	3.8	5.6	5.6	5.6	7.5	7.5	9.4	11.3	11.3	11.3	11.3
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-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3643.6	3651.1	3647.3	3641.7	3639.8	3649.2	3639.8	3596.5	3613.4	3615.3	3628.5
5°	3637.9	3643.6	3639.8	3636.0	3630.4	3641.7	3630.4	3585.2	3602.2	3604.0	3617.2
7.5°	3675.6	3677.4	3677.4	3668.0	3653.0	3658.6	3643.6	3592.7	3602.2	3602.2	3611.6
10°	3769.7	3773.4	3779.1	3754.6	3735.8	3720.7	3700.0	3637.9	3636.0	3621.0	3621.0
12.5°	3892.0	3882.6	3873.2	3861.9	3846.8	3828.0	3797.9	3724.5	3700.0	3675.6	3651.1
15°	3927.7	3924.0	3922.1	3916.4	3907.0	3901.4	3878.8	3805.4	3769.7	3739.5	3696.3
17.5°	3833.6	3841.2	3865.6	3867.5	3878.8	3901.4	3897.6	3846.8	3814.8	3801.6	3748.9
20°	3664.3	3666.1	3696.3	3709.4	3758.4	3796.0	3824.2	3818.6	3811.1	3826.1	3786.6
22.5°	3461.0	3474.2	3506.2	3526.9	3573.9	3617.2	3662.4	3686.8	3726.4	3788.5	3780.9
25°	3184.3	3201.3	3246.5	3280.3	3346.2	3412.1	3472.3	3515.6	3562.6	3681.2	3720.7
27.5°	2853.1	2879.5	2937.8	2971.7	3063.9	3131.7	3218.2	3302.9	3368.8	3504.3	3585.2
30°	2504.9	2527.5	2589.6	2636.7	2715.7	2807.9	2917.1	3037.6	3146.7	3284.1	3385.7
32.5°	2179.4	2203.8	2254.6	2296.0	2384.5	2461.7	2582.1	2730.8	2832.4	3022.5	3158.0
35°	1895.2	1917.8	1953.5	1989.3	2062.7	2141.7	2245.2	2390.1	2520.0	2717.6	2888.9
37.5°	1695.7	1699.4	1720.2	1740.9	1795.4	1855.7	1936.6	2064.6	2185.0	2397.7	2585.9
40°	1552.7	1552.7	1563.9	1569.6	1594.1	1629.8	1680.6	1780.4	1880.1	2042.0	2271.6
42.5°	1464.2	1460.4	1460.4	1462.3	1460.4	1477.4	1507.5	1554.5	1643.0	1776.6	1955.4
45°	1398.3	1390.8	1385.2	1372.0	1364.5	1364.5	1366.3	1383.3	1434.1	1520.7	1665.6
47.5°	1324.9	1323.0	1313.6	1298.6	1285.4	1276.0	1260.9	1255.3	1270.4	1319.3	1417.1
50°	1240.2	1230.8	1221.4	1210.1	1195.1	1185.7	1157.4	1159.3	1146.1	1168.7	1219.5
52.5°	1116.0	1108.5	1104.7	1095.3	1089.7	1085.9	1063.3	1040.7	1035.1	1038.9	1057.7
55°	978.6	982.4	967.3	974.9	973.0	956.1	946.6	929.7	924.1	922.2	931.6
57.5°	835.6	839.4	830.0	837.5	837.5	828.1	822.4	822.4	809.3	798.0	811.1
60°	705.8	698.2	703.9	713.3	713.3	707.6	703.9	703.9	694.5	690.7	700.1
62.5°	600.4	592.8	598.5	607.9	609.8	606.0	602.2	602.2	590.9	590.9	598.5
65°	519.4	521.3	519.4	527.0	527.0	528.8	525.1	521.3	508.1	513.8	511.9
67.5°	461.1	459.2	459.2	466.7	464.9	468.6	464.9	459.2	449.8	442.3	440.4
70°	412.2	410.3	410.3	414.0	415.9	415.9	414.0	410.3	397.1	389.6	383.9
72.5°	368.9	367.0	368.9	370.8	372.6	374.5	372.6	368.9	357.6	348.2	338.8
75°	329.4	327.5	333.1	333.1	335.0	335.0	336.9	335.0	325.6	314.3	303.0
77.5°	289.8	291.7	297.4	299.2	303.0	304.9	306.8	306.8	297.4	287.9	272.9
80°	257.8	261.6	265.4	267.2	271.0	276.7	278.5	280.4	272.9	263.5	246.5
82.5°	235.3	237.1	240.9	242.8	248.4	250.3	252.2	256.0	252.2	242.8	224.0
85°	216.4	218.3	222.1	222.1	225.8	229.6	231.5	233.4	231.5	222.1	203.3
87.5°	199.5	201.4	203.3	205.1	207.0	208.9	210.8	212.7	210.8	201.4	184.4
90°	184.4	184.4	186.3	186.3	188.2	190.1	193.8	193.8	192.0	184.4	167.5
92.5°	167.5	169.4	169.4	171.3	173.1	175.0	176.9	176.9	175.0	167.5	152.4
95°	156.2	156.2	158.1	158.1	160.0	160.0	161.9	161.9	160.0	152.4	137.4
97.5°	143.0	143.0	143.0	143.0	144.9	144.9	146.8	146.8	144.9	137.4	124.2
100°	131.7	131.7	131.7	131.7	131.7	133.6	133.6	133.6	131.7	124.2	111.0
102.5°	122.3	122.3	122.3	122.3	122.3	122.3	122.3	122.3	118.6	112.9	99.7
105°	116.7	116.7	116.7	114.8	114.8	114.8	112.9	112.9	107.3	101.6	90.3
107.5°	109.2	109.2	109.2	107.3	107.3	105.4	103.5	103.5	97.9	92.2	80.9
110°	103.5	103.5	103.5	101.6	99.7	97.9	96.0	94.1	88.5	80.9	71.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.9	97.9	96.0	96.0	94.1	92.2	88.5	86.6	80.9	73.4	64.0
115°	90.3	90.3	90.3	88.5	86.6	84.7	82.8	79.0	73.4	65.9	56.5
117.5°	82.8	82.8	82.8	80.9	79.0	77.2	75.3	71.5	65.9	58.3	50.8
120°	75.3	75.3	75.3	73.4	71.5	69.6	67.8	64.0	58.3	52.7	43.3
122.5°	69.6	69.6	67.8	65.9	64.0	62.1	60.2	56.5	52.7	45.2	37.6
125°	62.1	62.1	60.2	60.2	58.3	56.5	54.6	50.8	45.2	39.5	33.9
127.5°	56.5	54.6	54.6	54.6	52.7	50.8	47.1	45.2	39.5	33.9	28.2
130°	48.9	48.9	48.9	47.1	47.1	45.2	41.4	37.6	33.9	30.1	24.5
132.5°	43.3	43.3	43.3	43.3	41.4	39.5	35.8	33.9	30.1	24.5	20.7
135°	39.5	39.5	37.6	37.6	35.8	33.9	32.0	28.2	24.5	20.7	16.9
137.5°	33.9	33.9	33.9	32.0	32.0	30.1	26.3	24.5	22.6	18.8	15.1
140°	30.1	30.1	28.2	28.2	26.3	26.3	24.5	20.7	18.8	15.1	13.2
142.5°	26.3	26.3	24.5	24.5	22.6	22.6	20.7	18.8	15.1	13.2	9.4
145°	22.6	22.6	20.7	20.7	20.7	18.8	16.9	15.1	13.2	11.3	9.4
147.5°	18.8	18.8	18.8	16.9	16.9	15.1	15.1	13.2	11.3	9.4	7.5
150°	16.9	16.9	15.1	15.1	15.1	13.2	11.3	11.3	9.4	7.5	5.6
152.5°	13.2	13.2	13.2	13.2	11.3	11.3	9.4	9.4	7.5	5.6	5.6
155°	11.3	11.3	11.3	9.4	9.4	9.4	7.5	7.5	5.6	5.6	3.8
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-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6	3643.6
2.5°	3622.9	3621.0	3637.9	3636.0	3613.4	3647.3	3669.9
5°	3613.4	3611.6	3626.6	3630.4	3605.9	3641.7	3666.1
7.5°	3605.9	3604.0	3621.0	3626.6	3602.2	3634.1	3660.5
10°	3607.8	3598.4	3613.4	3617.2	3594.6	3628.5	3651.1
12.5°	3621.0	3598.4	3604.0	3604.0	3583.3	3613.4	3637.9
15°	3653.0	3605.9	3598.4	3592.7	3566.4	3594.6	3619.1
17.5°	3688.7	3624.7	3598.4	3579.6	3547.6	3572.0	3598.4
20°	3724.5	3645.4	3602.2	3572.0	3528.8	3551.3	3570.2
22.5°	3741.4	3664.3	3605.9	3560.7	3506.2	3517.5	3538.2
25°	3718.8	3656.7	3598.4	3543.8	3477.9	3479.8	3496.8
27.5°	3636.0	3619.1	3581.5	3526.9	3455.4	3445.9	3459.1
30°	3494.9	3541.9	3543.8	3504.3	3429.0	3410.2	3415.8
32.5°	3297.3	3402.7	3464.8	3457.2	3391.4	3365.0	3368.8
35°	3069.5	3201.3	3336.8	3382.0	3334.9	3314.2	3306.7
37.5°	2796.7	2973.6	3154.2	3265.3	3257.7	3244.6	3237.0
40°	2495.5	2708.2	2922.7	3099.7	3154.2	3154.2	3158.0
42.5°	2173.7	2422.1	2657.4	2881.3	3009.3	3037.6	3048.8
45°	1863.2	2113.5	2369.4	2627.3	2798.5	2887.0	2919.0
47.5°	1580.9	1833.1	2075.8	2358.1	2585.9	2700.7	2751.5
50°	1340.0	1528.2	1784.1	2064.6	2313.0	2454.1	2553.9
52.5°	1140.5	1287.3	1511.2	1772.8	2023.2	2217.0	2309.2
55°	973.0	1072.7	1262.8	1488.7	1727.7	1929.1	2036.3
57.5°	831.8	910.9	1040.7	1228.9	1430.3	1629.8	1744.6
60°	707.6	762.2	850.7	999.3	1170.6	1341.9	1452.9
62.5°	600.4	636.1	694.5	803.6	937.2	1070.9	1174.4
65°	517.6	532.6	564.6	632.4	734.0	835.6	924.1
67.5°	436.6	446.0	470.5	511.9	562.7	636.1	694.5
70°	376.4	376.4	378.3	402.7	429.1	476.1	517.6
72.5°	327.5	321.8	310.5	316.2	321.8	348.2	374.5
75°	287.9	274.8	256.0	248.4	244.7	248.4	263.5
77.5°	254.1	235.3	212.7	193.8	178.8	173.1	186.3
80°	225.8	203.3	176.9	152.4	128.0	114.8	120.4
82.5°	203.3	175.0	146.8	118.6	90.3	71.5	71.5
85°	178.8	152.4	122.3	92.2	64.0	39.5	35.8
87.5°	161.9	133.6	101.6	73.4	45.2	20.7	11.3
90°	144.9	116.7	86.6	58.3	32.0	9.4	0.0
92.5°	129.9	103.5	75.3	47.1	22.6	5.6	0.0
95°	116.7	92.2	64.0	39.5	18.8	3.8	1.9
97.5°	103.5	80.9	56.5	32.0	13.2	3.8	1.9
100°	94.1	71.5	48.9	26.3	11.3	1.9	1.9
102.5°	82.8	64.0	41.4	22.6	9.4	1.9	1.9
105°	73.4	56.5	35.8	18.8	7.5	1.9	1.9
107.5°	65.9	48.9	32.0	16.9	7.5	1.9	1.9
110°	58.3	43.3	28.2	15.1	5.6	1.9	1.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.7	37.6	24.5	13.2	3.8	1.9	1.9
115°	45.2	33.9	20.7	11.3	3.8	1.9	1.9
117.5°	39.5	28.2	18.8	9.4	3.8	1.9	1.9
120°	33.9	24.5	15.1	7.5	1.9	1.9	1.9
122.5°	30.1	20.7	13.2	7.5	1.9	1.9	1.9
125°	26.3	18.8	11.3	5.6	1.9	1.9	1.9
127.5°	22.6	15.1	9.4	3.8	1.9	1.9	1.9
130°	18.8	13.2	7.5	3.8	1.9	1.9	1.9
132.5°	15.1	11.3	7.5	3.8	1.9	1.9	1.9
135°	13.2	9.4	5.6	3.8	1.9	1.9	1.9
137.5°	11.3	7.5	3.8	3.8	3.8	1.9	1.9
140°	9.4	5.6	3.8	3.8	3.8	3.8	1.9
142.5°	7.5	5.6	3.8	3.8	3.8	3.8	1.9
145°	5.6	3.8	3.8	3.8	3.8	3.8	1.9
147.5°	5.6	3.8	3.8	3.8	3.8	3.8	1.9
150°	3.8	3.8	3.8	3.8	3.8	3.8	3.8
152.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8
155°	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)