

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-LD5-106SL-LN-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

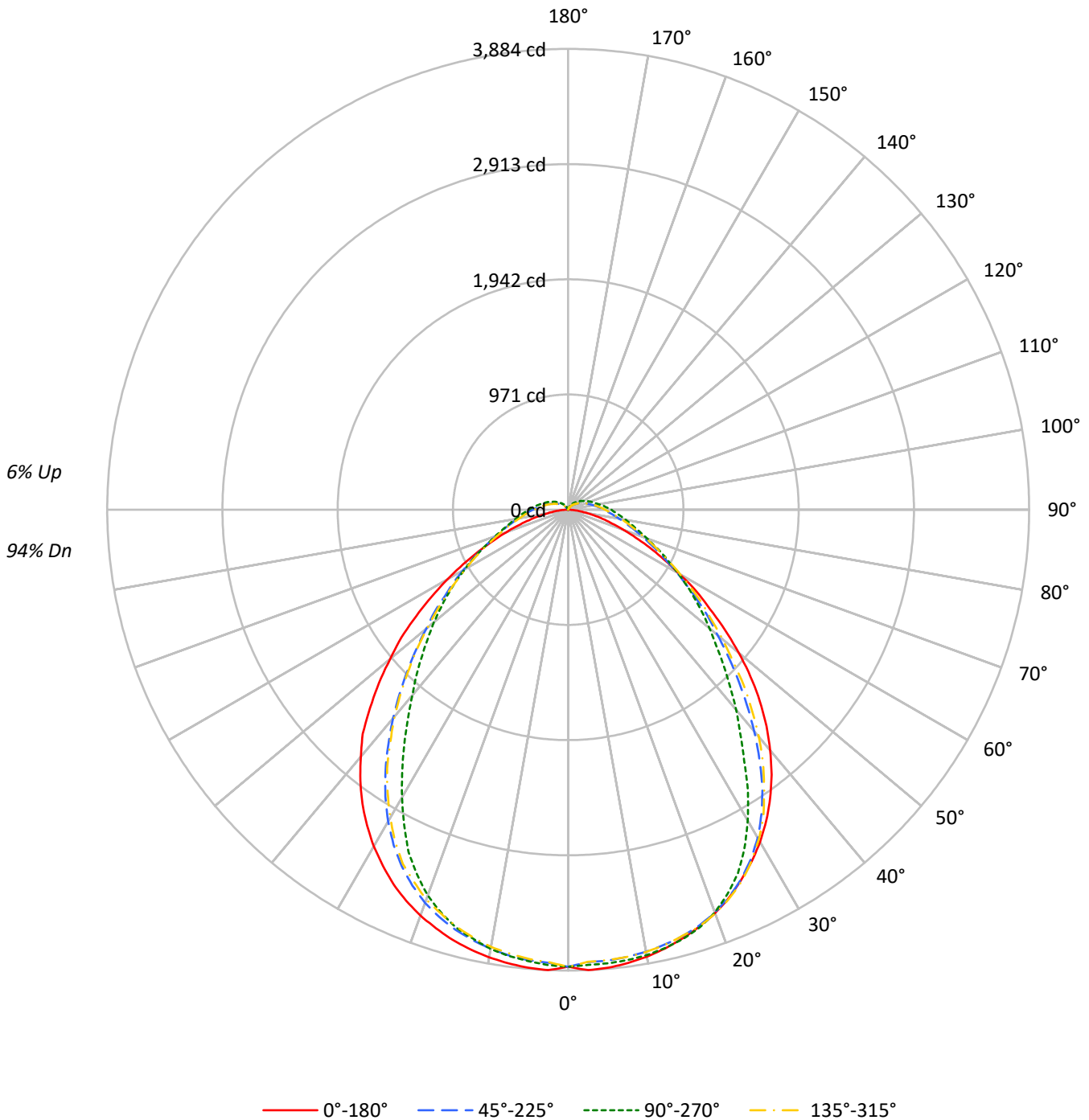
Lumens per Lamp: N/A  
Luminaire Lumens: 9749.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	15565	15565	15565	15565
5°	15697	15069	15697	15003
10°	15649	14669	15675	14465
15°	15570	14231	15641	13860
20°	15474	13667	15564	13090
25°	15249	12831	15418	12075
30°	14951	11603	15147	10741
35°	14474	10097	14753	9402
40°	13779	8831	14143	8193
45°	12851	7676	13269	7236
50°	11572	6746	12082	6405
55°	10045	5957	10776	5655
60°	8486	5230	9253	4929
65°	6998	4624	7703	4287
70°	5616	4104	6289	3795
75°	4470	3789	5032	3486
80°	3307	3656	3894	3341
85°	2167	3677	2919	3379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	3.7
10°-20°	1047.2	10.7
20°-30°	1552.0	15.9
30°-40°	1724.3	17.7
40°-50°	1563.0	16.0
50°-60°	1211.2	12.4
60°-70°	822.5	8.4
70°-80°	523.3	5.4
80°-90°	334.5	3.4
90°-100°	225.6	2.3
100°-110°	154.5	1.6
110°-120°	103.0	1.1
120°-130°	64.1	0.7
130°-140°	35.4	0.4
140°-150°	16.6	0.2
150°-160°	6.1	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2964.5	30.4
0°-40°	4688.7	48.1
0°-60°	7463.0	76.6
0°-90°	9143.2	93.8
90°-120°	483.1	5.0
90°-150°	599.3	6.1
90°-180°	606.0	6.2
0°-180°	9749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3852	3852	3852	3852	3852	
5°	3876	3837	3876	3820	3876	368
15°	3738	3744	3755	3647	3738	1055
25°	3445	3382	3484	3183	3445	1587
35°	2966	2585	3024	2407	2966	1851
45°	2284	1848	2358	1742	2284	1754
55°	1458	1299	1564	1233	1458	1313
65°	756	873	833	809	756	758
75°	303	583	341	536	303	326
85°	55	420	74	386	55	66
90°	0	362	4	331	0	3
95°	2	309	0	288	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#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3884.0	3879.8	3875.5	3869.2	3875.5	3892.5	3881.9	3858.6	3854.4	3816.2	3833.2
5°	3875.5	3869.2	3865.0	3858.6	3867.1	3888.3	3877.7	3856.5	3850.1	3814.1	3833.2
7.5°	3854.4	3850.1	3843.8	3843.8	3852.2	3873.4	3865.0	3841.6	3837.4	3801.4	3822.6
10°	3824.7	3822.6	3818.3	3818.3	3826.8	3852.2	3841.6	3820.5	3816.2	3782.3	3805.6
12.5°	3786.6	3788.7	3782.3	3782.3	3795.0	3820.5	3812.0	3788.7	3784.4	3754.8	3778.1
15°	3737.8	3739.9	3735.7	3737.8	3750.5	3780.2	3769.6	3748.4	3744.2	3720.9	3739.9
17.5°	3682.7	3684.8	3684.8	3682.7	3697.6	3727.2	3718.7	3699.7	3693.3	3674.2	3697.6
20°	3619.2	3619.2	3619.2	3619.2	3636.1	3665.8	3655.2	3640.3	3627.6	3612.8	3631.9
22.5°	3540.8	3538.6	3540.8	3547.1	3564.1	3587.4	3581.0	3564.1	3545.0	3536.5	3551.3
25°	3445.4	3451.8	3453.9	3460.2	3481.4	3500.5	3494.1	3477.2	3447.5	3441.2	3445.4
27.5°	3345.8	3350.0	3356.4	3354.3	3384.0	3403.0	3390.3	3375.5	3333.1	3326.7	3322.5
30°	3233.5	3239.9	3244.1	3242.0	3265.3	3286.5	3273.8	3254.7	3197.5	3193.2	3159.3
32.5°	3106.4	3112.7	3117.0	3117.0	3150.9	3159.3	3136.0	3108.5	3047.0	3032.2	3002.5
35°	2966.5	2972.9	2975.0	2975.0	3008.9	3006.8	2977.1	2939.0	2871.2	2852.1	2801.2
37.5°	2816.1	2820.3	2822.4	2835.1	2850.0	2837.3	2799.1	2750.4	2699.5	2646.6	2591.5
40°	2646.6	2652.9	2657.2	2665.6	2680.5	2665.6	2610.5	2551.2	2496.1	2436.8	2381.7
42.5°	2472.8	2491.9	2487.6	2485.5	2494.0	2453.7	2411.4	2343.6	2288.5	2227.0	2171.9
45°	2284.2	2282.1	2292.7	2296.9	2294.8	2260.9	2201.6	2140.1	2085.0	2021.5	1974.9
47.5°	2085.0	2082.9	2091.4	2095.6	2082.9	2046.9	2000.3	1930.4	1883.7	1828.6	1792.6
50°	1875.3	1875.3	1888.0	1875.3	1868.9	1832.9	1794.7	1724.8	1688.8	1640.1	1618.9
52.5°	1665.5	1684.6	1671.8	1667.6	1661.3	1625.2	1595.6	1538.4	1508.7	1487.5	1462.1
55°	1457.8	1479.0	1470.5	1464.2	1462.1	1432.4	1404.9	1362.5	1343.4	1328.6	1313.7
57.5°	1282.0	1279.8	1275.6	1269.2	1271.4	1248.1	1220.5	1197.2	1188.7	1182.4	1186.6
60°	1078.5	1095.5	1089.1	1091.3	1093.4	1089.1	1065.8	1051.0	1053.1	1055.2	1061.6
62.5°	911.1	926.0	936.6	928.1	932.3	938.7	926.0	921.7	930.2	938.7	947.2
65°	756.5	771.3	781.9	779.8	792.5	805.2	803.1	807.3	826.4	837.0	847.6
67.5°	616.6	631.4	646.3	648.4	667.5	686.5	695.0	709.8	731.0	745.9	758.6
70°	495.8	508.5	525.5	536.1	561.5	586.9	601.8	631.4	644.2	665.3	673.8
72.5°	387.8	398.4	421.7	447.1	468.3	500.1	529.7	555.2	574.2	597.5	608.1
75°	303.0	307.2	332.7	362.3	392.0	428.0	459.8	487.4	512.8	536.1	553.0
77.5°	222.5	228.8	252.2	292.4	326.3	364.5	400.5	430.1	457.7	481.0	504.3
80°	154.7	167.4	192.8	233.1	271.2	313.6	347.5	381.4	411.1	434.4	457.7
82.5°	99.6	110.2	146.2	186.5	226.7	269.1	305.1	339.0	370.8	396.2	417.4
85°	55.1	69.9	105.9	148.3	188.6	231.0	269.1	303.0	334.8	358.1	379.3
87.5°	21.2	42.4	76.3	116.5	156.8	197.1	237.3	269.1	300.9	326.3	345.4
90°	0.0	25.4	57.2	97.5	137.7	178.0	216.1	250.0	279.7	303.0	324.2
92.5°	2.1	17.0	44.5	78.4	116.5	154.7	190.7	224.6	254.3	277.6	296.7
95°	2.1	12.7	36.0	67.8	101.7	137.7	171.6	203.4	231.0	254.3	273.3
97.5°	2.1	8.5	29.7	59.3	89.0	125.0	156.8	186.5	211.9	235.2	250.0
100°	2.1	8.5	25.4	50.9	80.5	112.3	142.0	171.6	194.9	214.0	231.0
102.5°	2.1	6.4	21.2	44.5	72.0	99.6	129.3	156.8	178.0	197.1	214.0
105°	2.1	6.4	19.1	38.1	63.6	91.1	116.5	142.0	165.3	182.2	197.1
107.5°	2.1	4.2	17.0	31.8	55.1	82.6	108.1	129.3	150.4	167.4	182.2
110°	2.1	4.2	14.8	29.7	48.7	74.2	97.5	118.7	137.7	154.7	167.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.1	4.2	12.7	27.5	44.5	65.7	89.0	108.1	127.1	142.0	154.7
115°	2.1	4.2	12.7	25.4	40.3	57.2	78.4	99.6	114.4	131.4	142.0
117.5°	2.1	4.2	10.6	21.2	38.1	53.0	72.0	89.0	105.9	120.8	131.4
120°	2.1	4.2	10.6	19.1	33.9	48.7	63.6	80.5	97.5	108.1	118.7
122.5°	2.1	4.2	8.5	19.1	29.7	44.5	57.2	72.0	86.9	99.6	110.2
125°	2.1	4.2	8.5	17.0	27.5	40.3	53.0	63.6	78.4	89.0	99.6
127.5°	2.1	4.2	8.5	14.8	25.4	36.0	48.7	59.3	69.9	80.5	89.0
130°	2.1	4.2	6.4	12.7	23.3	31.8	42.4	55.1	63.6	72.0	80.5
132.5°	2.1	4.2	6.4	12.7	19.1	27.5	38.1	48.7	57.2	65.7	72.0
135°	2.1	4.2	6.4	10.6	17.0	25.4	31.8	42.4	50.9	59.3	65.7
137.5°	2.1	4.2	6.4	10.6	14.8	21.2	27.5	36.0	44.5	50.9	59.3
140°	2.1	4.2	6.4	8.5	12.7	19.1	25.4	29.7	38.1	44.5	50.9
142.5°	2.1	4.2	6.4	8.5	12.7	17.0	21.2	25.4	31.8	38.1	44.5
145°	2.1	4.2	6.4	8.5	10.6	14.8	19.1	23.3	25.4	31.8	36.0
147.5°	2.1	4.2	6.4	8.5	8.5	12.7	17.0	19.1	23.3	25.4	29.7
150°	2.1	4.2	6.4	6.4	8.5	10.6	14.8	17.0	19.1	23.3	25.4
152.5°	2.1	4.2	6.4	6.4	8.5	10.6	12.7	14.8	17.0	19.1	21.2
155°	2.1	4.2	6.4	6.4	6.4	8.5	10.6	12.7	14.8	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	14.8
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3828.9	3835.3	3854.4	3854.4	3850.1	3845.9	3845.9	3839.5	3843.8	3852.2	3848.0
5°	3828.9	3835.3	3854.4	3854.4	3850.1	3845.9	3843.8	3837.4	3843.8	3852.2	3848.0
7.5°	3816.2	3824.7	3843.8	3843.8	3839.5	3837.4	3833.2	3828.9	3835.3	3843.8	3839.5
10°	3799.3	3807.7	3826.8	3826.8	3822.6	3822.6	3816.2	3812.0	3820.5	3826.8	3824.7
12.5°	3773.8	3784.4	3801.4	3799.3	3795.0	3797.1	3790.8	3782.3	3790.8	3797.1	3799.3
15°	3737.8	3750.5	3767.5	3763.2	3756.9	3761.1	3750.5	3744.2	3750.5	3763.2	3761.1
17.5°	3691.2	3699.7	3712.4	3712.4	3706.0	3701.8	3697.6	3691.2	3695.4	3703.9	3706.0
20°	3625.5	3636.1	3642.5	3636.1	3634.0	3627.6	3619.2	3612.8	3621.3	3634.0	3636.1
22.5°	3538.6	3540.8	3555.6	3540.8	3530.2	3528.0	3519.6	3506.8	3519.6	3530.2	3532.3
25°	3430.6	3441.2	3434.8	3409.4	3409.4	3392.4	3388.2	3381.8	3384.0	3403.0	3411.5
27.5°	3292.8	3297.1	3280.1	3258.9	3239.9	3229.3	3214.4	3216.6	3216.6	3242.0	3250.5
30°	3142.4	3119.1	3104.3	3070.3	3055.5	3030.1	3025.8	3025.8	3021.6	3034.3	3072.5
32.5°	2962.3	2930.5	2907.2	2875.4	2850.0	2824.6	2811.8	2818.2	2816.1	2847.9	2860.6
35°	2765.2	2746.1	2697.4	2657.2	2642.3	2604.2	2604.2	2585.1	2597.8	2633.8	2648.7
37.5°	2557.6	2527.9	2487.6	2443.1	2432.5	2402.9	2392.3	2381.7	2409.2	2415.6	2430.4
40°	2345.7	2318.1	2280.0	2237.6	2237.6	2201.6	2201.6	2201.6	2203.7	2216.4	2244.0
42.5°	2144.4	2114.7	2080.8	2051.1	2046.9	2019.4	2019.4	2017.2	2021.5	2032.1	2057.5
45°	1949.4	1926.1	1890.1	1875.3	1877.4	1847.7	1854.1	1847.7	1856.2	1866.8	1875.3
47.5°	1769.3	1754.5	1739.7	1718.5	1712.1	1710.0	1699.4	1690.9	1705.7	1705.7	1718.5
50°	1601.9	1593.4	1585.0	1572.3	1574.4	1565.9	1553.2	1553.2	1563.8	1565.9	1574.4
52.5°	1455.7	1445.1	1434.5	1436.6	1438.8	1434.5	1428.2	1421.8	1428.2	1432.4	1443.0
55°	1309.5	1301.0	1311.6	1307.4	1311.6	1307.4	1303.1	1298.9	1309.5	1303.1	1313.7
57.5°	1178.1	1186.6	1190.8	1182.4	1188.7	1184.5	1186.6	1180.3	1188.7	1193.0	1190.8
60°	1057.4	1070.1	1063.7	1065.8	1074.3	1070.1	1061.6	1067.9	1076.4	1078.5	1076.4
62.5°	947.2	962.0	968.4	964.1	966.2	962.0	968.4	959.9	970.5	974.7	968.4
65°	847.6	864.5	868.8	868.8	868.8	864.5	870.9	873.0	877.2	877.2	873.0
67.5°	762.8	777.7	781.9	786.1	781.9	777.7	777.7	779.8	788.2	792.5	788.2
70°	686.5	701.4	703.5	703.5	705.6	709.8	701.4	705.6	712.0	714.1	712.0
72.5°	620.9	635.7	639.9	637.8	639.9	642.0	642.0	637.8	644.2	648.4	648.4
75°	567.9	576.4	580.6	580.6	582.7	584.8	584.8	582.7	586.9	589.1	591.2
77.5°	519.1	525.5	531.9	531.9	534.0	531.9	536.1	536.1	538.2	540.3	542.4
80°	470.4	478.9	483.1	485.2	489.5	491.6	491.6	491.6	493.7	495.8	495.8
82.5°	432.3	438.6	445.0	451.3	451.3	453.5	453.5	453.5	455.6	455.6	457.7
85°	394.1	402.6	409.0	413.2	415.3	417.4	417.4	419.6	419.6	419.6	421.7
87.5°	360.2	370.8	375.1	379.3	381.4	385.6	385.6	385.6	387.8	387.8	387.8
90°	336.9	347.5	351.7	356.0	358.1	360.2	360.2	362.3	362.3	364.5	364.5
92.5°	309.4	320.0	328.4	328.4	330.6	334.8	332.7	332.7	334.8	336.9	336.9
95°	288.2	296.7	303.0	305.1	307.2	307.2	307.2	309.4	307.2	309.4	309.4
97.5°	262.7	271.2	277.6	281.8	283.9	283.9	283.9	286.1	283.9	286.1	286.1
100°	241.6	250.0	256.4	258.5	262.7	262.7	262.7	262.7	262.7	262.7	264.9
102.5°	224.6	233.1	237.3	239.4	241.6	243.7	243.7	243.7	243.7	245.8	245.8
105°	207.7	216.1	220.4	222.5	224.6	226.7	226.7	226.7	228.8	228.8	226.7
107.5°	192.8	199.2	203.4	207.7	209.8	209.8	211.9	211.9	211.9	211.9	211.9
110°	178.0	184.3	190.7	194.9	194.9	197.1	197.1	199.2	199.2	197.1	199.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	163.2	171.6	175.9	180.1	182.2	184.3	184.3	184.3	184.3	184.3	184.3
115°	150.4	158.9	163.2	167.4	169.5	171.6	171.6	171.6	171.6	171.6	171.6
117.5°	139.9	148.3	152.6	154.7	156.8	158.9	161.0	161.0	161.0	161.0	158.9
120°	129.3	135.6	139.9	144.1	146.2	148.3	148.3	148.3	148.3	148.3	148.3
122.5°	118.7	125.0	129.3	133.5	135.6	137.7	137.7	137.7	137.7	137.7	137.7
125°	108.1	114.4	118.7	122.9	125.0	127.1	127.1	127.1	127.1	127.1	127.1
127.5°	97.5	103.8	110.2	112.3	114.4	116.5	116.5	116.5	118.7	116.5	116.5
130°	86.9	93.2	99.6	101.7	103.8	105.9	108.1	108.1	108.1	108.1	105.9
132.5°	78.4	84.8	89.0	91.1	95.4	95.4	97.5	97.5	97.5	97.5	95.4
135°	72.0	76.3	80.5	82.6	86.9	86.9	86.9	89.0	89.0	86.9	84.8
137.5°	63.6	67.8	72.0	74.2	76.3	78.4	78.4	80.5	78.4	78.4	78.4
140°	59.3	61.4	65.7	67.8	69.9	69.9	69.9	72.0	72.0	69.9	69.9
142.5°	50.9	55.1	59.3	61.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6
145°	42.4	48.7	50.9	55.1	55.1	57.2	57.2	57.2	57.2	57.2	55.1
147.5°	36.0	40.3	46.6	48.7	48.7	50.9	50.9	50.9	50.9	50.9	48.7
150°	27.5	31.8	38.1	42.4	42.4	44.5	44.5	44.5	44.5	42.4	42.4
152.5°	23.3	27.5	29.7	33.9	36.0	36.0	36.0	38.1	36.0	36.0	36.0
155°	21.2	23.3	25.4	27.5	29.7	31.8	31.8	31.8	31.8	29.7	29.7
157.5°	17.0	19.1	21.2	23.3	25.4	27.5	27.5	27.5	27.5	27.5	25.4
160°	12.7	14.8	17.0	17.0	19.1	21.2	23.3	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-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3843.8	3841.6	3848.0	3837.4	3805.6	3814.1	3809.9	3828.9	3833.2	3837.4	3856.5
5°	3843.8	3841.6	3845.9	3837.4	3803.5	3809.9	3805.6	3824.7	3828.9	3831.0	3850.1
7.5°	3835.3	3833.2	3839.5	3828.9	3792.9	3801.4	3795.0	3814.1	3816.2	3818.3	3835.3
10°	3818.3	3816.2	3820.5	3812.0	3776.0	3784.4	3776.0	3795.0	3795.0	3799.3	3812.0
12.5°	3792.9	3788.7	3797.1	3786.6	3746.3	3756.9	3752.6	3765.4	3767.5	3769.6	3782.3
15°	3756.9	3752.6	3759.0	3752.6	3716.6	3718.7	3712.4	3731.5	3733.6	3729.3	3742.1
17.5°	3703.9	3699.7	3712.4	3708.1	3672.1	3680.6	3678.5	3682.7	3689.1	3678.5	3695.4
20°	3638.2	3642.5	3646.7	3648.8	3621.3	3621.3	3619.2	3627.6	3634.0	3625.5	3638.2
22.5°	3540.8	3551.3	3564.1	3568.3	3549.2	3547.1	3559.8	3555.6	3561.9	3557.7	3566.2
25°	3417.9	3439.0	3451.8	3464.5	3453.9	3458.1	3477.2	3481.4	3481.4	3479.3	3487.8
27.5°	3265.3	3292.8	3316.1	3343.7	3333.1	3341.6	3373.4	3377.6	3386.1	3377.6	3394.5
30°	3083.1	3108.5	3153.0	3193.2	3197.5	3210.2	3254.7	3258.9	3282.2	3273.8	3280.1
32.5°	2900.8	2913.5	2964.4	3004.7	3030.1	3061.9	3110.6	3119.1	3150.9	3157.2	3157.2
35°	2672.0	2708.0	2754.6	2811.8	2843.6	2877.5	2943.2	2955.9	3002.5	3017.4	3034.3
37.5°	2479.2	2513.1	2542.7	2602.1	2659.3	2697.4	2750.4	2782.2	2830.9	2858.5	2879.6
40°	2273.6	2301.2	2333.0	2392.3	2441.0	2498.2	2551.2	2589.3	2650.8	2682.6	2710.1
42.5°	2078.7	2099.9	2133.8	2176.2	2227.0	2290.6	2341.4	2385.9	2451.6	2496.1	2527.9
45°	1904.9	1917.6	1947.3	1979.1	2023.6	2089.3	2138.0	2195.2	2248.2	2294.8	2333.0
47.5°	1741.8	1758.7	1773.6	1794.7	1835.0	1875.3	1932.5	1987.6	2040.5	2091.4	2129.5
50°	1591.3	1591.3	1614.6	1629.5	1657.0	1693.0	1737.5	1775.7	1841.4	1877.4	1926.1
52.5°	1445.1	1453.6	1466.3	1474.8	1496.0	1519.3	1555.3	1587.1	1642.2	1676.1	1722.7
55°	1315.9	1324.3	1330.7	1334.9	1347.6	1375.2	1387.9	1413.3	1451.5	1479.0	1519.3
57.5°	1193.0	1197.2	1203.6	1205.7	1207.8	1224.7	1235.3	1241.7	1279.8	1307.4	1341.3
60°	1080.7	1080.7	1087.0	1084.9	1082.8	1091.3	1089.1	1095.5	1118.8	1135.8	1150.6
62.5°	974.7	974.7	976.8	972.6	970.5	970.5	962.0	968.4	974.7	976.8	987.4
65°	877.2	887.8	879.4	881.5	868.8	864.5	860.3	847.6	845.5	837.0	841.2
67.5°	790.4	798.8	790.4	790.4	779.8	771.3	760.7	739.5	733.2	716.2	712.0
70°	720.4	714.1	718.3	712.0	699.3	688.7	673.8	656.9	635.7	614.5	599.7
72.5°	652.6	652.6	648.4	642.0	635.7	614.5	597.5	578.5	553.0	525.5	504.3
75°	586.9	589.1	589.1	582.7	572.1	553.0	534.0	506.4	478.9	447.1	419.6
77.5°	540.3	540.3	540.3	529.7	519.1	502.2	478.9	449.2	419.6	381.4	349.6
80°	495.8	493.7	493.7	481.0	470.4	451.3	428.0	398.4	366.6	326.3	290.3
82.5°	459.8	457.7	453.5	442.9	428.0	409.0	385.6	353.9	320.0	283.9	239.4
85°	421.7	419.6	415.3	404.7	389.9	372.9	347.5	315.7	281.8	241.6	199.2
87.5°	387.8	385.6	379.3	372.9	356.0	336.9	311.5	281.8	245.8	207.7	165.3
90°	364.5	360.2	356.0	347.5	332.7	311.5	286.1	254.3	218.3	180.1	137.7
92.5°	336.9	334.8	328.4	320.0	307.2	286.1	260.6	231.0	194.9	158.9	118.7
95°	309.4	307.2	303.0	294.5	281.8	262.7	239.4	209.8	175.9	139.9	103.8
97.5°	283.9	283.9	277.6	271.2	256.4	241.6	218.3	190.7	158.9	127.1	93.2
100°	262.7	262.7	256.4	247.9	237.3	222.5	199.2	173.8	144.1	114.4	80.5
102.5°	243.7	241.6	237.3	228.8	218.3	203.4	182.2	158.9	131.4	101.7	72.0
105°	226.7	224.6	220.4	211.9	203.4	186.5	169.5	146.2	118.7	91.1	63.6
107.5°	209.8	207.7	205.5	197.1	186.5	171.6	154.7	131.4	108.1	82.6	57.2
110°	194.9	192.8	188.6	180.1	169.5	156.8	139.9	120.8	97.5	74.2	50.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.2	180.1	175.9	167.4	158.9	144.1	129.3	108.1	89.0	67.8	44.5
115°	169.5	167.4	163.2	154.7	144.1	131.4	116.5	99.6	78.4	59.3	40.3
117.5°	156.8	154.7	150.4	144.1	133.5	120.8	105.9	89.0	69.9	55.1	36.0
120°	146.2	142.0	137.7	131.4	120.8	110.2	95.4	80.5	63.6	48.7	31.8
122.5°	135.6	131.4	127.1	120.8	110.2	99.6	84.8	72.0	59.3	44.5	29.7
125°	122.9	120.8	116.5	110.2	99.6	89.0	78.4	65.7	53.0	40.3	25.4
127.5°	112.3	110.2	105.9	97.5	89.0	80.5	69.9	59.3	46.6	33.9	23.3
130°	103.8	99.6	95.4	89.0	82.6	74.2	63.6	53.0	42.4	29.7	21.2
132.5°	93.2	89.0	84.8	80.5	74.2	65.7	57.2	46.6	38.1	27.5	19.1
135°	84.8	80.5	76.3	72.0	65.7	59.3	50.9	42.4	33.9	25.4	17.0
137.5°	74.2	72.0	69.9	65.7	59.3	53.0	46.6	36.0	29.7	23.3	14.8
140°	67.8	65.7	63.6	57.2	53.0	46.6	40.3	31.8	25.4	19.1	12.7
142.5°	61.4	59.3	55.1	50.9	46.6	42.4	33.9	29.7	23.3	17.0	12.7
145°	53.0	50.9	48.7	44.5	40.3	33.9	29.7	25.4	21.2	14.8	10.6
147.5°	48.7	46.6	42.4	38.1	33.9	29.7	27.5	23.3	17.0	12.7	8.5
150°	40.3	38.1	36.0	31.8	29.7	27.5	23.3	19.1	14.8	10.6	8.5
152.5°	33.9	31.8	29.7	29.7	25.4	23.3	19.1	17.0	12.7	10.6	6.4
155°	29.7	29.7	27.5	25.4	21.2	19.1	17.0	12.7	10.6	8.5	6.4
157.5°	25.4	23.3	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	14.8	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-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3858.6	3835.3	3856.5	3884.0	3884.0	3879.8	3875.5	3884.0	3905.2	3896.7	3871.3
5°	3852.2	3828.9	3848.0	3875.5	3875.5	3869.2	3865.0	3871.3	3894.6	3884.0	3860.7
7.5°	3839.5	3818.3	3831.0	3856.5	3856.5	3850.1	3845.9	3854.4	3873.4	3862.8	3837.4
10°	3816.2	3792.9	3807.7	3831.0	3828.9	3824.7	3818.3	3828.9	3845.9	3831.0	3801.4
12.5°	3786.6	3763.2	3776.0	3797.1	3795.0	3786.6	3782.3	3788.7	3803.5	3795.0	3763.2
15°	3746.3	3723.0	3733.6	3754.8	3748.4	3742.1	3733.6	3735.7	3754.8	3739.9	3706.0
17.5°	3697.6	3672.1	3680.6	3699.7	3693.3	3687.0	3676.4	3678.5	3699.7	3678.5	3642.5
20°	3638.2	3610.7	3617.0	3640.3	3629.7	3619.2	3608.6	3608.6	3629.7	3606.4	3566.2
22.5°	3574.7	3547.1	3551.3	3568.3	3559.8	3540.8	3530.2	3536.5	3547.1	3517.4	3475.1
25°	3496.3	3460.2	3466.6	3483.5	3477.2	3451.8	3441.2	3445.4	3441.2	3417.9	3373.4
27.5°	3405.1	3367.0	3371.2	3381.8	3373.4	3350.0	3337.3	3339.5	3331.0	3301.3	3250.5
30°	3290.7	3271.6	3269.5	3275.9	3263.2	3239.9	3225.0	3220.8	3218.7	3176.3	3114.8
32.5°	3174.2	3157.2	3146.6	3155.1	3140.3	3117.0	3091.5	3091.5	3070.3	3030.1	2977.1
35°	3055.5	3028.0	3017.4	3023.7	3006.8	2977.1	2955.9	2945.3	2913.5	2862.7	2805.5
37.5°	2903.0	2883.9	2871.2	2877.5	2858.5	2837.3	2797.0	2786.4	2752.5	2682.6	2610.5
40°	2737.7	2722.8	2710.1	2716.5	2695.3	2663.5	2627.5	2610.5	2572.4	2494.0	2436.8
42.5°	2559.7	2553.3	2538.5	2561.8	2519.4	2487.6	2451.6	2424.1	2385.9	2301.2	2235.5
45°	2371.1	2385.9	2352.0	2358.4	2330.8	2303.3	2265.1	2224.9	2186.7	2106.2	2032.1
47.5°	2171.9	2182.5	2159.2	2163.4	2133.8	2108.3	2074.4	2023.6	1981.2	1911.3	1845.6
50°	1966.4	1962.1	1962.1	1957.9	1934.6	1902.8	1868.9	1822.3	1779.9	1716.3	1661.3
52.5°	1748.1	1756.6	1760.8	1771.4	1741.8	1722.7	1669.7	1629.5	1597.7	1532.0	1485.4
55°	1538.4	1568.0	1559.5	1563.8	1529.9	1515.0	1472.7	1440.9	1394.3	1356.1	1326.5
57.5°	1347.6	1354.0	1358.2	1364.6	1349.8	1320.1	1286.2	1260.8	1224.7	1193.0	1171.8
60°	1163.3	1163.3	1165.4	1176.0	1161.2	1135.8	1110.3	1091.3	1065.8	1046.8	1034.0
62.5°	989.5	1004.4	1006.5	998.0	979.0	966.2	949.3	938.7	921.7	915.4	911.1
65°	828.5	828.5	828.5	832.7	822.1	813.7	803.1	801.0	807.3	798.8	803.1
67.5°	692.9	686.5	682.3	684.4	680.2	675.9	673.8	680.2	692.9	692.9	703.5
70°	576.4	563.6	555.2	555.2	555.2	557.3	563.6	576.4	597.5	606.0	620.9
72.5°	481.0	453.5	440.7	440.7	442.9	451.3	470.4	493.7	512.8	529.7	548.8
75°	389.9	362.3	343.3	341.1	345.4	358.1	385.6	406.8	438.6	461.9	485.2
77.5°	315.7	281.8	258.5	256.4	262.7	281.8	315.7	343.3	379.3	404.7	430.1
80°	252.2	214.0	194.9	182.2	192.8	216.1	254.3	288.2	322.1	356.0	387.8
82.5°	201.3	165.3	135.6	122.9	135.6	167.4	203.4	243.7	277.6	313.6	345.4
85°	158.9	120.8	86.9	74.2	89.0	122.9	163.2	203.4	241.6	277.6	309.4
87.5°	125.0	86.9	53.0	36.0	55.1	91.1	129.3	169.5	209.8	245.8	277.6
90°	97.5	61.4	29.7	4.2	31.8	65.7	103.8	142.0	182.2	218.3	250.0
92.5°	82.6	46.6	17.0	0.0	19.1	48.7	84.8	122.9	158.9	194.9	226.7
95°	69.9	38.1	12.7	0.0	12.7	38.1	69.9	103.8	139.9	175.9	207.7
97.5°	59.3	29.7	8.5	0.0	8.5	29.7	57.2	91.1	122.9	156.8	186.5
100°	50.9	25.4	6.4	0.0	6.4	23.3	48.7	78.4	110.2	142.0	169.5
102.5°	44.5	21.2	4.2	0.0	4.2	19.1	40.3	67.8	95.4	125.0	152.6
105°	38.1	17.0	4.2	0.0	2.1	14.8	33.9	59.3	84.8	112.3	137.7
107.5°	33.9	14.8	4.2	0.0	2.1	12.7	29.7	50.9	76.3	99.6	122.9
110°	29.7	12.7	4.2	0.0	2.1	8.5	25.4	44.5	65.7	89.0	112.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.4	10.6	2.1	0.0	0.0	6.4	21.2	38.1	57.2	80.5	99.6
115°	23.3	10.6	2.1	0.0	0.0	4.2	17.0	33.9	50.9	72.0	89.0
117.5°	21.2	8.5	2.1	0.0	2.1	4.2	14.8	29.7	44.5	61.4	80.5
120°	19.1	8.5	2.1	0.0	2.1	2.1	10.6	25.4	38.1	55.1	69.9
122.5°	17.0	8.5	2.1	0.0	2.1	2.1	8.5	21.2	33.9	48.7	61.4
125°	14.8	6.4	4.2	2.1	2.1	2.1	6.4	17.0	29.7	40.3	55.1
127.5°	14.8	6.4	4.2	2.1	2.1	2.1	4.2	14.8	23.3	36.0	48.7
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	14.8	25.4	33.9
135°	10.6	6.4	4.2	2.1	2.1	2.1	2.1	4.2	10.6	19.1	27.5
137.5°	8.5	4.2	4.2	2.1	2.1	2.1	2.1	2.1	8.5	14.8	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-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3862.8	3822.6	3843.8	3837.4	3845.9	3862.8	3860.7	3856.5	3856.5	3850.1	3841.6
5°	3850.1	3812.0	3831.0	3820.5	3831.0	3845.9	3843.8	3837.4	3841.6	3831.0	3820.5
7.5°	3824.7	3790.8	3807.7	3799.3	3807.7	3822.6	3816.2	3814.1	3818.3	3801.4	3795.0
10°	3795.0	3756.9	3776.0	3765.4	3776.0	3786.6	3782.3	3773.8	3782.3	3765.4	3759.0
12.5°	3748.4	3716.6	3729.3	3725.1	3731.5	3742.1	3733.6	3727.2	3731.5	3716.6	3703.9
15°	3697.6	3665.8	3676.4	3670.0	3674.2	3687.0	3672.1	3670.0	3665.8	3650.9	3646.7
17.5°	3631.9	3602.2	3612.8	3602.2	3608.6	3604.3	3602.2	3591.6	3591.6	3574.7	3561.9
20°	3551.3	3525.9	3519.6	3511.1	3519.6	3511.1	3498.4	3489.9	3487.8	3470.8	3460.2
22.5°	3458.1	3428.4	3432.7	3409.4	3411.5	3398.8	3377.6	3369.1	3360.6	3341.6	3326.7
25°	3345.8	3316.1	3295.0	3280.1	3261.1	3258.9	3231.4	3210.2	3208.1	3184.8	3182.7
27.5°	3218.7	3184.8	3167.8	3131.8	3108.5	3089.4	3066.1	3044.9	3034.3	3008.9	2991.9
30°	3072.5	3034.3	2991.9	2966.5	2930.5	2915.7	2875.4	2850.0	2841.5	2814.0	2801.2
32.5°	2907.2	2866.9	2833.0	2784.3	2744.0	2722.8	2682.6	2657.2	2646.6	2616.9	2599.9
35°	2727.1	2682.6	2642.3	2595.7	2563.9	2527.9	2479.2	2453.7	2430.4	2419.8	2407.1
37.5°	2538.5	2489.8	2443.1	2396.5	2369.0	2326.6	2284.2	2267.3	2239.7	2229.1	2216.4
40°	2343.6	2294.8	2250.3	2205.8	2174.0	2135.9	2097.8	2091.4	2061.7	2051.1	2042.7
42.5°	2150.7	2099.9	2049.0	2017.2	1993.9	1955.8	1930.4	1924.0	1898.6	1892.2	1892.2
45°	1977.0	1913.4	1871.0	1843.5	1824.4	1792.6	1771.4	1767.2	1746.0	1741.8	1741.8
47.5°	1790.5	1731.2	1699.4	1682.4	1665.5	1642.2	1629.5	1629.5	1608.3	1604.0	1601.9
50°	1616.8	1561.7	1538.4	1521.4	1519.3	1502.3	1491.7	1487.5	1487.5	1472.7	1474.8
52.5°	1451.5	1423.9	1404.9	1394.3	1381.6	1371.0	1362.5	1362.5	1356.1	1345.5	1349.8
55°	1298.9	1267.1	1269.2	1260.8	1254.4	1248.1	1250.2	1237.5	1235.3	1226.9	1233.2
57.5°	1146.3	1146.3	1142.1	1135.8	1125.2	1129.4	1129.4	1129.4	1118.8	1112.4	1118.8
60°	1017.1	1023.4	1012.9	1019.2	1015.0	1017.1	1012.9	1012.9	1006.5	1004.4	1006.5
62.5°	902.7	913.3	909.0	917.5	913.3	915.4	919.6	911.1	906.9	902.7	906.9
65°	801.0	813.7	811.6	817.9	820.0	822.1	824.3	820.0	815.8	811.6	809.4
67.5°	712.0	724.7	733.2	735.3	737.4	743.7	741.6	737.4	733.2	726.8	724.7
70°	631.4	648.4	659.0	663.2	671.7	667.5	667.5	665.3	661.1	654.8	652.6
72.5°	563.6	582.7	593.3	597.5	606.0	606.0	603.9	601.8	597.5	591.2	589.1
75°	504.3	521.3	536.1	544.6	550.9	550.9	548.8	546.7	542.4	538.2	536.1
77.5°	457.7	472.5	485.2	495.8	500.1	502.2	500.1	495.8	495.8	493.7	491.6
80°	411.1	428.0	440.7	451.3	457.7	457.7	455.6	457.7	453.5	451.3	449.2
82.5°	370.8	389.9	404.7	415.3	419.6	421.7	419.6	421.7	417.4	417.4	417.4
85°	334.8	353.9	370.8	379.3	385.6	387.8	387.8	387.8	385.6	385.6	385.6
87.5°	305.1	324.2	341.1	349.6	356.0	358.1	358.1	360.2	356.0	356.0	356.0
90°	277.6	296.7	313.6	322.1	328.4	332.7	332.7	334.8	332.7	330.6	330.6
92.5°	252.2	273.3	290.3	298.8	305.1	311.5	311.5	313.6	309.4	309.4	309.4
95°	231.0	252.2	267.0	277.6	283.9	288.2	290.3	290.3	288.2	288.2	288.2
97.5°	211.9	231.0	245.8	256.4	262.7	264.9	267.0	269.1	267.0	267.0	267.0
100°	192.8	211.9	226.7	235.2	243.7	245.8	247.9	250.0	250.0	247.9	247.9
102.5°	175.9	194.9	207.7	218.3	224.6	228.8	231.0	231.0	231.0	231.0	231.0
105°	158.9	178.0	190.7	201.3	207.7	211.9	214.0	216.1	216.1	214.0	214.0
107.5°	144.1	161.0	175.9	184.3	192.8	197.1	199.2	199.2	201.3	199.2	199.2
110°	129.3	148.3	161.0	169.5	178.0	182.2	184.3	186.5	186.5	186.5	186.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	118.7	133.5	146.2	154.7	163.2	167.4	169.5	171.6	173.8	171.6	171.6
115°	105.9	120.8	133.5	142.0	148.3	152.6	156.8	158.9	158.9	161.0	158.9
117.5°	95.4	108.1	120.8	129.3	135.6	142.0	144.1	146.2	148.3	146.2	146.2
120°	84.8	97.5	108.1	116.5	122.9	129.3	131.4	133.5	135.6	133.5	133.5
122.5°	76.3	86.9	97.5	105.9	112.3	116.5	120.8	120.8	122.9	122.9	122.9
125°	67.8	78.4	86.9	95.4	101.7	105.9	108.1	110.2	110.2	112.3	112.3
127.5°	59.3	67.8	78.4	84.8	91.1	95.4	97.5	99.6	99.6	101.7	101.7
130°	50.9	59.3	67.8	74.2	80.5	84.8	86.9	89.0	91.1	91.1	91.1
132.5°	44.5	53.0	59.3	65.7	69.9	74.2	78.4	80.5	80.5	80.5	80.5
135°	36.0	44.5	50.9	57.2	61.4	65.7	67.8	72.0	72.0	72.0	72.0
137.5°	29.7	38.1	44.5	48.7	53.0	57.2	59.3	61.4	63.6	63.6	63.6
140°	23.3	29.7	36.0	42.4	46.6	48.7	53.0	53.0	55.1	55.1	55.1
142.5°	17.0	23.3	27.5	33.9	38.1	42.4	44.5	46.6	46.6	46.6	46.6
145°	12.7	17.0	21.2	25.4	31.8	33.9	36.0	38.1	40.3	40.3	40.3
147.5°	8.5	12.7	14.8	19.1	23.3	27.5	29.7	31.8	33.9	33.9	33.9
150°	6.4	8.5	12.7	14.8	17.0	21.2	25.4	25.4	27.5	27.5	25.4
152.5°	4.2	6.4	8.5	10.6	12.7	14.8	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	14.8	14.8	14.8	14.8
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-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3848.0	3852.2	3852.2	3848.0	3845.9	3854.4	3843.8	3803.5	3816.2	3820.5	3833.2
5°	3828.9	3833.2	3833.2	3833.2	3828.9	3837.4	3826.8	3786.6	3801.4	3807.7	3816.2
7.5°	3801.4	3803.5	3807.7	3805.6	3801.4	3814.1	3803.5	3763.2	3773.8	3784.4	3795.0
10°	3765.4	3765.4	3767.5	3771.7	3767.5	3778.1	3767.5	3731.5	3742.1	3748.4	3761.1
12.5°	3716.6	3720.9	3723.0	3720.9	3718.7	3727.2	3723.0	3689.1	3693.3	3706.0	3718.7
15°	3650.9	3650.9	3661.5	3657.3	3657.3	3665.8	3670.0	3631.9	3638.2	3657.3	3670.0
17.5°	3570.4	3572.5	3581.0	3585.3	3583.1	3598.0	3600.1	3570.4	3568.3	3591.6	3604.3
20°	3466.6	3470.8	3481.4	3489.9	3489.9	3506.8	3513.2	3494.1	3496.3	3521.7	3525.9
22.5°	3339.5	3339.5	3358.5	3371.2	3381.8	3392.4	3411.5	3394.5	3394.5	3428.4	3447.5
25°	3182.7	3197.5	3203.8	3229.3	3244.1	3273.8	3290.7	3292.8	3295.0	3326.7	3339.5
27.5°	3008.9	3013.1	3032.2	3061.9	3078.8	3106.4	3138.2	3144.5	3155.1	3197.5	3216.6
30°	2811.8	2824.6	2833.0	2875.4	2898.7	2934.7	2975.0	2989.8	2998.3	3055.5	3078.8
32.5°	2610.5	2614.8	2650.8	2674.1	2701.7	2739.8	2786.4	2814.0	2830.9	2890.2	2924.1
35°	2409.2	2417.7	2447.4	2477.0	2504.6	2542.7	2591.5	2629.6	2659.3	2712.2	2756.7
37.5°	2224.9	2246.1	2252.4	2282.1	2303.3	2341.4	2375.3	2430.4	2460.1	2515.2	2572.4
40°	2059.6	2066.0	2070.2	2099.9	2114.7	2150.7	2199.5	2235.5	2275.7	2316.0	2383.8
42.5°	1896.5	1900.7	1907.0	1924.0	1941.0	1966.4	2002.4	2038.4	2080.8	2140.1	2184.6
45°	1746.0	1750.2	1754.5	1765.1	1779.9	1803.2	1826.5	1852.0	1894.3	1945.2	1991.8
47.5°	1606.2	1614.6	1614.6	1616.8	1627.3	1646.4	1663.4	1695.2	1718.5	1746.0	1799.0
50°	1472.7	1479.0	1481.1	1481.1	1487.5	1500.2	1504.4	1525.6	1546.8	1572.3	1610.4
52.5°	1347.6	1347.6	1345.5	1354.0	1354.0	1362.5	1364.6	1377.3	1392.1	1419.7	1436.6
55°	1229.0	1229.0	1235.3	1231.1	1231.1	1235.3	1233.2	1235.3	1248.1	1265.0	1279.8
57.5°	1114.6	1112.4	1118.8	1114.6	1112.4	1116.7	1120.9	1112.4	1114.6	1131.5	1131.5
60°	1000.1	1002.3	1008.6	1004.4	1004.4	1004.4	1000.1	995.9	991.7	1002.3	1006.5
62.5°	909.0	902.7	909.0	902.7	906.9	904.8	900.6	892.1	894.2	890.0	885.7
65°	813.7	813.7	815.8	809.4	813.7	813.7	807.3	805.2	792.5	788.2	777.7
67.5°	731.0	731.0	733.2	728.9	728.9	731.0	724.7	718.3	705.6	699.3	684.4
70°	659.0	659.0	659.0	656.9	656.9	656.9	652.6	644.2	631.4	620.9	601.8
72.5°	593.3	595.4	593.3	593.3	599.7	593.3	586.9	578.5	567.9	546.7	529.7
75°	540.3	542.4	540.3	540.3	540.3	538.2	536.1	523.4	510.7	493.7	468.3
77.5°	493.7	493.7	495.8	493.7	493.7	491.6	485.2	474.6	459.8	445.0	415.3
80°	449.2	451.3	453.5	455.6	451.3	449.2	442.9	434.4	415.3	398.4	368.7
82.5°	417.4	415.3	417.4	419.6	415.3	413.2	406.8	396.2	381.4	358.1	328.4
85°	385.6	383.5	383.5	385.6	383.5	379.3	372.9	362.3	347.5	324.2	294.5
87.5°	353.9	356.0	358.1	356.0	353.9	349.6	343.3	332.7	315.7	296.7	264.9
90°	330.6	330.6	330.6	330.6	328.4	324.2	317.8	305.1	290.3	267.0	239.4
92.5°	309.4	309.4	309.4	309.4	307.2	300.9	294.5	283.9	267.0	243.7	218.3
95°	288.2	290.3	288.2	288.2	283.9	281.8	271.2	260.6	245.8	222.5	194.9
97.5°	264.9	267.0	264.9	264.9	262.7	258.5	252.2	239.4	224.6	203.4	178.0
100°	247.9	247.9	245.8	245.8	243.7	239.4	231.0	220.4	205.5	184.3	158.9
102.5°	228.8	231.0	228.8	228.8	224.6	220.4	214.0	203.4	188.6	167.4	144.1
105°	214.0	214.0	211.9	211.9	207.7	203.4	197.1	184.3	171.6	152.6	129.3
107.5°	199.2	199.2	197.1	197.1	192.8	188.6	180.1	169.5	156.8	137.7	116.5
110°	184.3	184.3	184.3	182.2	178.0	171.6	165.3	154.7	142.0	125.0	103.8





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.8	171.6	169.5	167.4	163.2	158.9	150.4	139.9	127.1	112.3	93.2
115°	158.9	158.9	156.8	154.7	150.4	144.1	137.7	129.3	116.5	99.6	82.6
117.5°	146.2	146.2	144.1	142.0	137.7	131.4	125.0	116.5	103.8	89.0	74.2
120°	133.5	133.5	131.4	129.3	125.0	118.7	114.4	103.8	93.2	78.4	65.7
122.5°	122.9	120.8	120.8	116.5	114.4	108.1	101.7	93.2	82.6	69.9	57.2
125°	110.2	110.2	108.1	105.9	103.8	97.5	91.1	82.6	72.0	61.4	50.9
127.5°	99.6	99.6	97.5	95.4	93.2	86.9	80.5	74.2	63.6	53.0	42.4
130°	89.0	89.0	86.9	84.8	82.6	76.3	72.0	63.6	55.1	46.6	36.0
132.5°	80.5	80.5	78.4	76.3	72.0	67.8	63.6	55.1	48.7	40.3	31.8
135°	72.0	69.9	69.9	67.8	63.6	59.3	55.1	48.7	40.3	33.9	25.4
137.5°	63.6	61.4	59.3	57.2	55.1	50.9	46.6	42.4	36.0	27.5	21.2
140°	55.1	53.0	53.0	50.9	46.6	44.5	40.3	33.9	29.7	23.3	17.0
142.5°	46.6	46.6	44.5	42.4	40.3	38.1	33.9	29.7	23.3	19.1	12.7
145°	40.3	38.1	38.1	36.0	33.9	29.7	27.5	23.3	19.1	14.8	10.6
147.5°	31.8	31.8	31.8	29.7	27.5	25.4	23.3	19.1	14.8	10.6	6.4
150°	25.4	25.4	25.4	23.3	21.2	19.1	17.0	14.8	10.6	6.4	4.2
152.5°	21.2	21.2	19.1	19.1	17.0	14.8	12.7	10.6	6.4	4.2	4.2
155°	14.8	14.8	14.8	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-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2	3852.2
2.5°	3826.8	3824.7	3841.6	3841.6	3822.6	3852.2	3884.0
5°	3814.1	3812.0	3828.9	3828.9	3812.0	3841.6	3875.5
7.5°	3788.7	3790.8	3807.7	3812.0	3790.8	3818.3	3854.4
10°	3761.1	3759.0	3778.1	3782.3	3765.4	3790.8	3824.7
12.5°	3716.6	3716.6	3735.7	3742.1	3725.1	3754.8	3786.6
15°	3670.0	3670.0	3682.7	3693.3	3678.5	3706.0	3737.8
17.5°	3610.7	3608.6	3621.3	3634.0	3619.2	3648.8	3682.7
20°	3534.4	3534.4	3549.2	3564.1	3553.5	3581.0	3619.2
22.5°	3453.9	3445.4	3470.8	3481.4	3475.1	3502.6	3540.8
25°	3352.2	3350.0	3375.5	3390.3	3381.8	3411.5	3445.4
27.5°	3242.0	3239.9	3265.3	3284.4	3280.1	3307.7	3345.8
30°	3108.5	3119.1	3142.4	3174.2	3163.6	3193.2	3233.5
32.5°	2968.6	2979.2	3006.8	3040.7	3042.8	3066.1	3106.4
35°	2801.2	2828.8	2847.9	2892.4	2900.8	2924.1	2966.5
37.5°	2625.4	2657.2	2697.4	2731.3	2748.3	2767.3	2816.1
40°	2428.3	2474.9	2519.4	2559.7	2580.9	2599.9	2646.6
42.5°	2250.3	2286.3	2328.7	2369.0	2407.1	2424.1	2472.8
45°	2049.0	2091.4	2129.5	2178.3	2216.4	2235.5	2284.2
47.5°	1852.0	1894.3	1945.2	1979.1	2019.4	2038.4	2085.0
50°	1663.4	1701.5	1743.9	1784.1	1818.1	1835.0	1875.3
52.5°	1476.9	1517.2	1557.4	1582.9	1618.9	1631.6	1665.5
55°	1311.6	1339.2	1375.2	1390.0	1426.0	1434.5	1457.8
57.5°	1152.7	1171.8	1184.5	1209.9	1235.3	1254.4	1282.0
60°	1008.6	1017.1	1025.6	1040.4	1061.6	1067.9	1078.5
62.5°	879.4	877.2	894.2	898.4	900.6	921.7	911.1
65°	764.9	767.1	752.2	745.9	754.3	760.7	756.5
67.5°	669.6	656.9	644.2	629.3	616.6	623.0	616.6
70°	576.4	565.8	544.6	523.4	514.9	502.2	495.8
72.5°	502.2	476.8	455.6	428.0	413.2	398.4	387.8
75°	445.0	409.0	379.3	349.6	328.4	307.2	303.0
77.5°	385.6	351.7	317.8	286.1	254.3	231.0	222.5
80°	339.0	307.2	267.0	228.8	194.9	165.3	154.7
82.5°	296.7	262.7	222.5	182.2	144.1	112.3	99.6
85°	260.6	224.6	184.3	144.1	105.9	72.0	55.1
87.5°	233.1	192.8	152.6	114.4	74.2	40.3	21.2
90°	207.7	169.5	131.4	91.1	53.0	21.2	0.0
92.5°	184.3	148.3	110.2	74.2	40.3	12.7	2.1
95°	163.2	131.4	93.2	59.3	29.7	8.5	2.1
97.5°	146.2	114.4	80.5	48.7	23.3	6.4	2.1
100°	131.4	99.6	69.9	40.3	19.1	4.2	2.1
102.5°	116.5	89.0	59.3	33.9	14.8	2.1	2.1
105°	103.8	78.4	50.9	29.7	12.7	2.1	2.1
107.5°	93.2	69.9	44.5	25.4	8.5	2.1	2.1
110°	82.6	59.3	38.1	21.2	6.4	2.1	2.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	74.2	53.0	33.9	17.0	4.2	2.1	2.1
115°	65.7	46.6	29.7	14.8	4.2	2.1	2.1
117.5°	57.2	40.3	25.4	10.6	2.1	2.1	2.1
120°	50.9	36.0	21.2	8.5	2.1	2.1	2.1
122.5°	44.5	29.7	17.0	6.4	2.1	2.1	2.1
125°	38.1	25.4	14.8	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°	27.5	17.0	8.5	2.1	2.1	2.1	2.1
132.5°	23.3	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°	14.8	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)