

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-L935-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-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

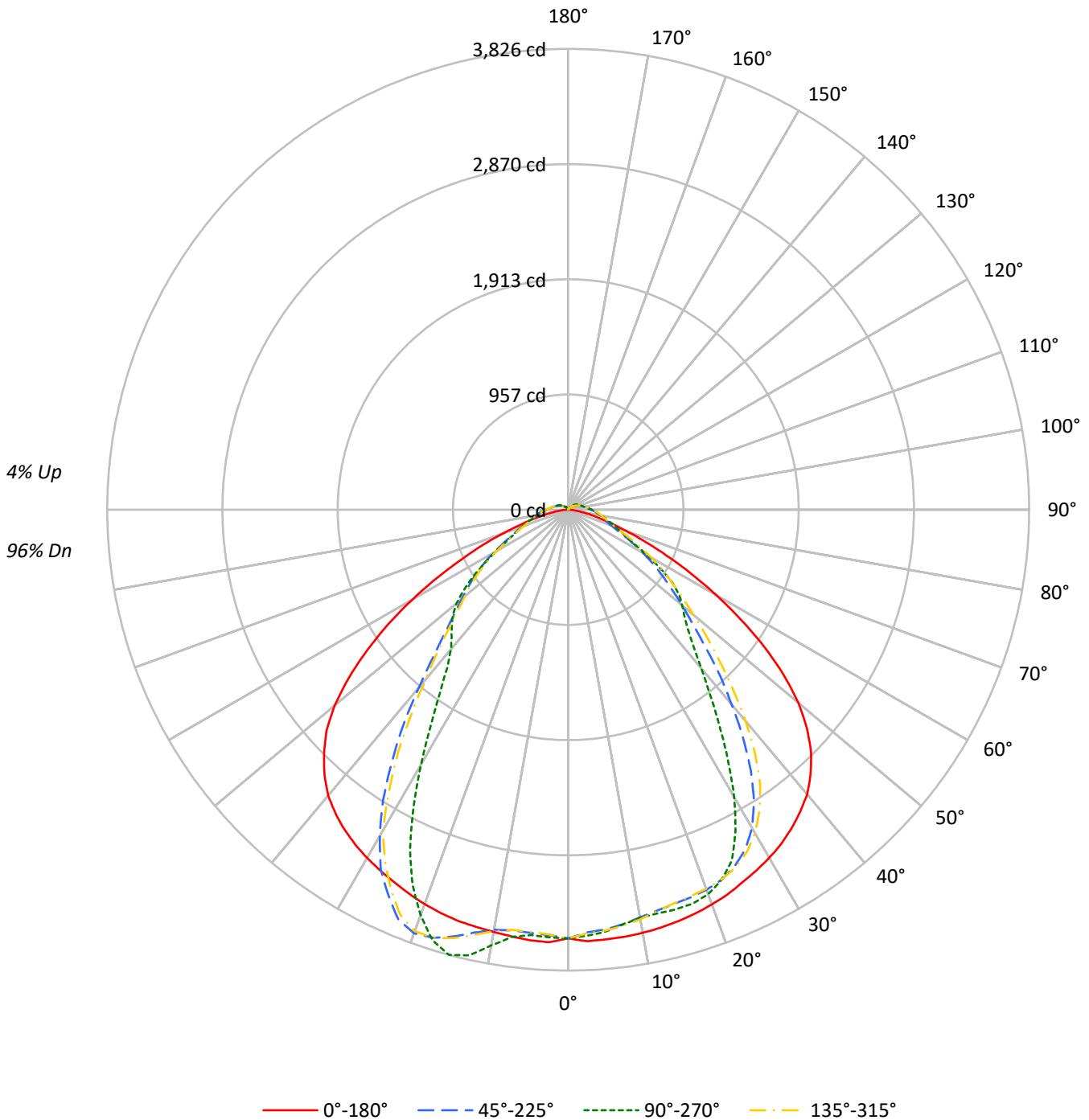
Lumens per Lamp: N/A
Luminaire Lumens: 8485.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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	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°	14381	14381	14381	14381
5°	14506	13811	14536	13919
10°	14593	13236	14563	14135
15°	14727	13060	14719	14541
20°	14911	12853	14895	13548
25°	15118	12193	15110	11781
30°	15429	10567	15437	9362
35°	15761	8545	15806	7231
40°	16061	6880	16128	6062
45°	16043	5828	16125	5675
50°	15395	5365	15611	5246
55°	13707	4823	14049	4384
60°	11167	3691	11760	3385
65°	8351	2824	8996	2678
70°	5727	2438	6455	2331
75°	3797	2200	4421	2080
80°	2516	2051	2948	1887
85°	1373	2046	1809	1869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	4.0
10°-20°	1005.9	11.9
20°-30°	1529.3	18.0
30°-40°	1640.6	19.3
40°-50°	1423.8	16.8
50°-60°	1055.2	12.4
60°-70°	604.6	7.1
70°-80°	334.8	3.9
80°-90°	203.9	2.4
90°-100°	132.6	1.6
100°-110°	88.8	1.0
110°-120°	60.0	0.7
120°-130°	36.8	0.4
130°-140°	19.3	0.2
140°-150°	8.8	0.1
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2873.3	33.9
0°-40°	4513.9	53.2
0°-60°	6992.9	82.4
0°-90°	8136.1	95.9
90°-120°	281.3	3.3
90°-150°	346.3	4.1
90°-180°	349.0	4.1
0°-180°	8485.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3559	3559	3559	3559	3559	
5°	3581	3517	3589	3544	3581	341
15°	3535	3436	3534	3826	3535	1000
25°	3416	3214	3414	3105	3416	1579
35°	3230	2188	3239	1851	3230	2022
45°	2851	1403	2866	1366	2851	2183
55°	1989	1052	2039	956	1989	1764
65°	903	533	972	506	903	910
75°	257	338	300	320	257	294
85°	35	234	46	213	35	46
90°	0	195	4	180	0	2
95°	2	160	0	153	2	1
105°	2	120	2	114	2	2
115°	2	97	2	88	2	2
125°	2	74	2	61	2	2
135°	2	46	2	39	2	1
145°	2	28	4	22	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#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3585.0	3575.8	3572.1	3564.8	3570.3	3592.3	3577.6	3553.7	3555.6	3513.3	3535.3
5°	3581.3	3570.3	3564.8	3557.4	3561.1	3581.3	3566.6	3542.7	3540.9	3498.6	3518.8
7.5°	3575.8	3564.8	3555.6	3550.1	3551.9	3568.4	3550.1	3522.5	3517.0	3471.0	3489.4
10°	3566.6	3559.2	3546.4	3537.2	3535.3	3553.7	3524.3	3496.7	3483.9	3436.1	3454.5
12.5°	3553.7	3542.7	3529.8	3513.3	3511.4	3522.5	3498.6	3460.0	3447.1	3408.5	3428.7
15°	3535.3	3522.5	3507.8	3489.4	3480.2	3487.5	3458.1	3423.2	3421.4	3388.3	3415.8
17.5°	3515.1	3496.7	3480.2	3454.5	3441.6	3447.1	3423.2	3391.9	3395.6	3375.4	3406.7
20°	3487.5	3467.3	3441.6	3415.8	3397.5	3406.7	3390.1	3366.2	3371.7	3357.0	3384.6
22.5°	3456.3	3428.7	3397.5	3368.0	3353.3	3366.2	3353.3	3333.1	3335.0	3325.8	3342.3
25°	3415.8	3384.6	3347.8	3311.1	3303.7	3312.9	3305.5	3289.0	3281.6	3266.9	3274.3
27.5°	3379.1	3344.1	3298.2	3259.6	3246.7	3265.1	3248.5	3221.0	3200.7	3180.5	3165.8
30°	3336.8	3294.5	3243.0	3198.9	3187.9	3195.2	3171.3	3129.0	3075.7	3050.0	3009.5
32.5°	3290.8	3235.7	3171.3	3121.7	3114.3	3108.8	3064.7	3004.0	2921.3	2869.8	2807.3
35°	3230.2	3169.5	3092.3	3031.6	3020.6	2989.3	2917.6	2836.7	2730.1	2641.9	2535.2
37.5°	3162.1	3090.4	3009.5	2928.7	2897.4	2834.9	2733.8	2649.2	2487.4	2380.8	2252.1
40°	3084.9	2998.5	2899.2	2801.8	2750.3	2649.2	2533.4	2408.4	2252.1	2108.7	2000.2
42.5°	2978.3	2886.4	2768.7	2660.2	2572.0	2437.8	2301.7	2125.3	1981.9	1860.5	1750.2
45°	2851.4	2741.1	2605.1	2474.6	2362.4	2202.5	2042.5	1866.0	1746.5	1605.0	1529.6
47.5°	2687.8	2568.3	2423.1	2277.8	2130.8	1954.3	1787.0	1617.8	1498.3	1397.2	1342.1
50°	2494.8	2384.5	2224.5	2051.7	1889.9	1706.1	1538.8	1411.9	1296.1	1233.6	1191.3
52.5°	2255.8	2152.8	1989.2	1801.7	1645.4	1465.2	1312.7	1209.7	1127.0	1081.0	1066.3
55°	1989.2	1899.1	1737.3	1562.7	1402.7	1237.3	1121.5	1031.4	978.1	950.5	952.3
57.5°	1704.2	1634.4	1481.8	1325.5	1174.8	1049.8	945.0	873.3	832.8	831.0	836.5
60°	1419.3	1367.8	1235.4	1101.2	968.9	867.7	790.5	740.9	715.2	717.0	715.2
62.5°	1147.2	1099.4	1003.8	893.5	788.7	720.7	650.8	630.6	608.5	606.7	606.7
65°	902.7	865.9	788.7	709.6	630.6	586.5	551.5	527.6	511.1	507.4	509.3
67.5°	678.4	663.7	610.4	557.1	507.4	479.8	450.4	444.9	432.0	432.0	435.7
70°	505.6	494.5	465.1	433.9	413.7	395.3	380.6	380.6	378.7	376.9	386.1
72.5°	365.9	367.7	358.5	334.6	332.8	329.1	325.4	330.9	332.8	338.3	349.3
75°	257.4	262.9	262.9	259.2	266.6	275.8	281.3	290.5	301.5	308.9	321.7
77.5°	182.0	182.0	191.2	202.2	216.9	233.5	248.2	261.1	275.8	285.0	296.0
80°	117.7	123.2	137.9	158.1	178.3	200.4	220.6	237.2	251.9	266.6	273.9
82.5°	69.9	79.1	97.4	123.2	148.9	176.5	196.7	216.9	233.5	248.2	253.7
85°	34.9	47.8	69.9	97.4	125.0	154.4	180.2	198.6	216.9	229.8	237.2
87.5°	11.0	25.7	49.6	75.4	104.8	134.2	161.8	182.0	198.6	209.6	216.9
90°	0.0	12.9	34.9	62.5	90.1	119.5	145.2	167.3	183.8	193.0	198.6
92.5°	0.0	7.4	27.6	51.5	77.2	106.6	132.4	152.6	167.3	176.5	180.2
95°	1.8	5.5	20.2	42.3	68.0	95.6	119.5	137.9	152.6	161.8	163.6
97.5°	1.8	3.7	16.5	34.9	58.8	84.6	108.5	126.9	137.9	147.1	148.9
100°	1.8	3.7	12.9	31.3	51.5	75.4	97.4	114.0	126.9	134.2	136.0
102.5°	1.8	1.8	11.0	25.7	46.0	66.2	86.4	103.0	114.0	121.3	125.0
105°	1.8	1.8	9.2	22.1	40.4	58.8	77.2	93.8	103.0	110.3	114.0
107.5°	1.8	1.8	7.4	18.4	34.9	51.5	69.9	82.7	93.8	101.1	104.8
110°	1.8	1.8	5.5	16.5	29.4	46.0	60.7	73.5	84.6	91.9	95.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	1.8	5.5	14.7	25.7	40.4	53.3	66.2	75.4	82.7	88.2
115°	1.8	1.8	5.5	12.9	23.9	34.9	47.8	58.8	68.0	75.4	80.9
117.5°	1.8	1.8	5.5	11.0	20.2	31.3	42.3	53.3	60.7	68.0	73.5
120°	1.8	1.8	3.7	9.2	18.4	27.6	36.8	46.0	55.2	62.5	68.0
122.5°	1.8	1.8	3.7	9.2	14.7	23.9	33.1	40.4	49.6	55.2	60.7
125°	1.8	1.8	3.7	7.4	12.9	22.1	29.4	36.8	42.3	49.6	55.2
127.5°	1.8	1.8	3.7	7.4	11.0	18.4	25.7	33.1	38.6	44.1	47.8
130°	1.8	1.8	3.7	5.5	9.2	14.7	22.1	27.6	34.9	38.6	42.3
132.5°	1.8	1.8	1.8	5.5	7.4	11.0	16.5	23.9	29.4	34.9	36.8
135°	1.8	1.8	1.8	3.7	7.4	9.2	12.9	18.4	23.9	29.4	33.1
137.5°	1.8	1.8	1.8	3.7	5.5	9.2	11.0	14.7	20.2	23.9	29.4
140°	1.8	1.8	1.8	3.7	5.5	7.4	9.2	12.9	16.5	20.2	23.9
142.5°	1.8	1.8	1.8	3.7	3.7	5.5	7.4	11.0	12.9	16.5	20.2
145°	1.8	1.8	1.8	3.7	3.7	5.5	7.4	9.2	11.0	12.9	16.5
147.5°	1.8	1.8	1.8	3.7	3.7	3.7	5.5	7.4	9.2	11.0	12.9
150°	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	7.4	9.2	11.0
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5	7.4	9.2
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	7.4	7.4
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°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3528.0	3531.7	3553.7	3551.9	3548.2	3544.5	3544.5	3540.9	3544.5	3553.7	3550.1
5°	3509.6	3515.1	3531.7	3529.8	3526.2	3524.3	3522.5	3517.0	3520.6	3533.5	3529.8
7.5°	3476.5	3482.0	3496.7	3489.4	3483.9	3487.5	3478.4	3472.8	3480.2	3493.1	3491.2
10°	3441.6	3445.3	3463.6	3460.0	3450.8	3452.6	3443.4	3439.7	3448.9	3456.3	3458.1
12.5°	3417.7	3430.6	3447.1	3445.3	3443.4	3445.3	3436.1	3432.4	3437.9	3445.3	3443.4
15°	3412.2	3428.7	3447.1	3447.1	3448.9	3450.8	3441.6	3436.1	3441.6	3447.1	3445.3
17.5°	3406.7	3426.9	3443.4	3441.6	3443.4	3447.1	3432.4	3428.7	3436.1	3443.4	3439.7
20°	3388.3	3406.7	3417.7	3414.0	3414.0	3415.8	3397.5	3397.5	3408.5	3414.0	3415.8
22.5°	3336.8	3358.9	3358.9	3349.7	3349.7	3342.3	3336.8	3325.8	3338.6	3347.8	3355.2
25°	3259.6	3268.8	3257.7	3237.5	3226.5	3217.3	3191.6	3213.6	3213.6	3241.2	3250.4
27.5°	3151.1	3130.9	3099.6	3057.3	3048.2	3018.7	3002.2	3007.7	3016.9	3055.5	3084.9
30°	2972.8	2912.1	2858.8	2840.4	2800.0	2770.5	2741.1	2755.8	2772.4	2794.4	2855.1
32.5°	2737.5	2678.6	2592.2	2561.0	2518.7	2481.9	2447.0	2469.0	2498.5	2513.2	2579.3
35°	2467.2	2397.3	2318.3	2265.0	2220.8	2200.6	2156.5	2187.8	2219.0	2230.0	2287.0
37.5°	2180.4	2108.7	2038.8	1992.9	1950.6	1937.7	1908.3	1930.4	1954.3	1970.8	2018.6
40°	1908.3	1842.1	1788.8	1757.6	1728.1	1717.1	1706.1	1715.3	1733.7	1746.5	1783.3
42.5°	1674.8	1621.5	1584.7	1566.4	1546.1	1531.4	1533.3	1536.9	1546.1	1573.7	1590.3
45°	1470.8	1439.5	1415.6	1411.9	1399.1	1397.2	1395.4	1402.7	1408.3	1424.8	1437.7
47.5°	1307.1	1294.3	1288.8	1296.1	1301.6	1294.3	1297.9	1307.1	1318.2	1318.2	1316.3
50°	1178.4	1182.1	1189.5	1206.0	1217.1	1220.7	1224.4	1235.4	1237.3	1241.0	1235.4
52.5°	1073.7	1077.3	1097.6	1123.3	1136.2	1141.7	1149.0	1160.1	1160.1	1163.7	1156.4
55°	967.0	972.5	992.8	1018.5	1029.5	1036.9	1044.2	1051.6	1057.1	1064.5	1058.9
57.5°	849.4	865.9	878.8	886.1	893.5	899.0	904.5	906.4	917.4	919.2	928.4
60°	724.3	728.0	740.9	739.1	733.5	748.2	740.9	753.8	766.6	783.2	785.0
62.5°	604.9	606.7	615.9	612.2	619.6	617.7	623.2	623.2	632.4	639.8	649.0
65°	511.1	512.9	520.3	520.3	518.4	524.0	529.5	533.2	533.2	538.7	546.0
67.5°	441.2	446.7	454.1	457.8	461.5	461.5	467.0	468.8	472.5	474.3	478.0
70°	393.4	400.8	408.1	411.8	413.7	417.3	419.2	419.2	422.8	424.7	428.4
72.5°	358.5	365.9	371.4	371.4	375.0	376.9	376.9	378.7	380.6	384.2	387.9
75°	329.1	334.6	338.3	336.4	336.4	336.4	338.3	338.3	342.0	345.6	349.3
77.5°	301.5	307.0	307.0	303.3	303.3	303.3	303.3	305.2	307.0	310.7	314.4
80°	281.3	281.3	279.4	279.4	275.8	273.9	273.9	275.8	275.8	279.4	285.0
82.5°	259.2	259.2	257.4	255.5	253.7	251.9	251.9	253.7	255.5	257.4	261.1
85°	239.0	239.0	235.3	235.3	233.5	233.5	233.5	233.5	235.3	237.2	240.8
87.5°	218.8	216.9	215.1	213.3	213.3	213.3	213.3	213.3	215.1	218.8	220.6
90°	198.6	196.7	194.9	194.9	193.0	193.0	194.9	194.9	196.7	198.6	200.4
92.5°	180.2	178.3	176.5	176.5	174.7	174.7	176.5	174.7	178.3	178.3	180.2
95°	163.6	161.8	159.9	159.9	159.9	159.9	159.9	159.9	161.8	161.8	163.6
97.5°	148.9	147.1	145.2	145.2	147.1	145.2	147.1	147.1	147.1	148.9	150.8
100°	136.0	134.2	134.2	136.0	134.2	134.2	136.0	136.0	136.0	136.0	137.9
102.5°	125.0	125.0	125.0	125.0	125.0	125.0	126.9	126.9	126.9	126.9	128.7
105°	114.0	115.8	115.8	115.8	117.7	117.7	117.7	119.5	119.5	119.5	119.5
107.5°	106.6	108.5	108.5	110.3	110.3	112.1	112.1	112.1	112.1	114.0	114.0
110°	99.3	101.1	103.0	104.8	104.8	106.6	106.6	106.6	106.6	106.6	106.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	91.9	93.8	95.6	99.3	101.1	101.1	101.1	101.1	103.0	103.0	101.1
115°	84.6	88.2	90.1	93.8	95.6	95.6	97.4	97.4	97.4	97.4	95.6
117.5°	77.2	82.7	84.6	88.2	90.1	90.1	91.9	91.9	91.9	91.9	90.1
120°	71.7	75.4	79.1	80.9	82.7	84.6	84.6	86.4	86.4	86.4	84.6
122.5°	66.2	69.9	73.5	75.4	77.2	79.1	79.1	79.1	79.1	79.1	79.1
125°	58.8	62.5	66.2	68.0	69.9	71.7	71.7	73.5	73.5	73.5	71.7
127.5°	53.3	57.0	58.8	62.5	64.3	64.3	66.2	66.2	66.2	66.2	64.3
130°	46.0	49.6	53.3	55.2	57.0	57.0	58.8	58.8	58.8	58.8	58.8
132.5°	40.4	44.1	46.0	49.6	49.6	51.5	51.5	53.3	53.3	53.3	51.5
135°	36.8	38.6	40.4	44.1	44.1	46.0	46.0	46.0	46.0	46.0	46.0
137.5°	33.1	34.9	36.8	38.6	38.6	40.4	40.4	40.4	40.4	42.3	40.4
140°	27.6	31.3	33.1	33.1	34.9	34.9	34.9	36.8	36.8	36.8	34.9
142.5°	23.9	25.7	27.6	29.4	31.3	31.3	31.3	31.3	33.1	31.3	31.3
145°	18.4	22.1	23.9	25.7	27.6	27.6	27.6	27.6	27.6	27.6	27.6
147.5°	14.7	16.5	20.2	22.1	22.1	23.9	23.9	23.9	23.9	23.9	23.9
150°	12.9	12.9	16.5	18.4	20.2	20.2	20.2	20.2	20.2	20.2	20.2
152.5°	9.2	11.0	12.9	14.7	16.5	16.5	16.5	16.5	16.5	16.5	16.5
155°	9.2	9.2	11.0	11.0	12.9	12.9	12.9	12.9	14.7	12.9	12.9
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3544.5	3542.7	3550.1	3542.7	3505.9	3520.6	3515.1	3535.3	3537.2	3542.7	3561.1
5°	3526.2	3526.2	3535.3	3528.0	3493.1	3507.8	3505.9	3526.2	3529.8	3533.5	3553.7
7.5°	3489.4	3491.2	3504.1	3498.6	3461.8	3483.9	3482.0	3505.9	3513.3	3520.6	3539.0
10°	3454.5	3452.6	3467.3	3461.8	3426.9	3452.6	3450.8	3474.7	3485.7	3498.6	3520.6
12.5°	3436.1	3430.6	3436.1	3430.6	3391.9	3412.2	3414.0	3441.6	3454.5	3471.0	3496.7
15°	3436.1	3426.9	3426.9	3415.8	3371.7	3384.6	3386.4	3404.8	3421.4	3437.9	3469.2
17.5°	3432.4	3423.2	3421.4	3412.2	3364.4	3364.4	3362.5	3375.4	3384.6	3401.1	3434.2
20°	3412.2	3408.5	3406.7	3401.1	3357.0	3349.7	3346.0	3346.0	3351.5	3357.0	3390.1
22.5°	3358.9	3362.5	3366.2	3369.9	3335.0	3322.1	3323.9	3320.2	3314.7	3314.7	3342.3
25°	3259.6	3278.0	3292.7	3309.2	3289.0	3279.8	3290.8	3285.3	3276.1	3268.8	3292.7
27.5°	3101.5	3140.1	3171.3	3211.8	3213.6	3206.3	3235.7	3232.0	3230.2	3219.1	3237.5
30°	2882.7	2943.4	2985.6	3044.5	3094.1	3101.5	3151.1	3158.5	3165.8	3160.3	3178.7
32.5°	2618.0	2700.7	2772.4	2864.3	2912.1	2954.4	3024.3	3053.7	3083.1	3092.3	3112.5
35°	2329.3	2423.1	2507.6	2608.8	2684.1	2776.1	2860.6	2904.8	2970.9	2996.7	3026.1
37.5°	2055.4	2143.6	2226.4	2327.5	2448.8	2544.4	2649.2	2748.5	2838.6	2875.3	2919.5
40°	1812.7	1884.4	1963.5	2051.7	2162.0	2287.0	2401.0	2538.9	2645.5	2719.1	2783.4
42.5°	1628.9	1663.8	1731.8	1810.9	1899.1	2026.0	2141.8	2296.2	2424.9	2529.7	2636.3
45°	1465.2	1481.8	1531.4	1573.7	1663.8	1775.9	1899.1	2049.9	2184.1	2318.3	2447.0
47.5°	1325.5	1345.7	1369.6	1395.4	1459.7	1553.5	1660.1	1796.2	1930.4	2086.6	2233.7
50°	1231.8	1237.3	1241.0	1252.0	1290.6	1354.9	1441.3	1557.2	1685.9	1853.2	2009.4
52.5°	1149.0	1149.0	1138.0	1132.5	1147.2	1187.6	1237.3	1320.0	1452.4	1606.8	1772.3
55°	1060.8	1044.2	1040.6	1022.2	1025.9	1044.2	1068.1	1132.5	1241.0	1373.3	1533.3
57.5°	937.6	930.3	930.3	922.9	908.2	917.4	922.9	968.9	1046.1	1160.1	1299.8
60°	796.0	792.4	801.6	803.4	790.5	796.0	794.2	821.8	876.9	968.9	1084.7
62.5°	654.5	671.0	672.9	680.2	672.9	671.0	680.2	704.1	731.7	801.6	891.6
65°	549.7	558.9	560.7	569.9	566.2	566.2	573.6	592.0	608.5	656.3	726.2
67.5°	481.7	478.0	479.8	485.4	479.8	478.0	483.5	494.5	507.4	536.8	586.5
70°	428.4	424.7	424.7	424.7	417.3	411.8	413.7	417.3	422.8	439.4	470.6
72.5°	387.9	387.9	382.4	376.9	371.4	367.7	364.0	360.3	358.5	364.0	380.6
75°	351.1	353.0	351.1	345.6	338.3	330.9	323.6	316.2	307.0	303.3	305.2
77.5°	318.1	319.9	321.7	319.9	312.5	303.3	292.3	281.3	268.4	255.5	248.2
80°	288.6	292.3	294.2	292.3	286.8	279.4	266.6	253.7	235.3	218.8	200.4
82.5°	262.9	268.4	270.3	270.3	266.6	259.2	244.5	229.8	209.6	187.5	163.6
85°	242.7	246.4	250.0	250.0	248.2	240.8	226.1	209.6	189.4	163.6	137.9
87.5°	222.5	224.3	228.0	231.6	228.0	220.6	207.7	189.4	169.1	143.4	114.0
90°	202.2	204.1	207.7	211.4	209.6	202.2	191.2	174.7	152.6	125.0	95.6
92.5°	182.0	185.7	187.5	189.4	191.2	185.7	176.5	159.9	137.9	110.3	82.7
95°	167.3	167.3	171.0	172.8	174.7	169.1	161.8	145.2	125.0	99.3	71.7
97.5°	152.6	152.6	156.3	156.3	158.1	154.4	147.1	132.4	112.1	88.2	60.7
100°	137.9	139.7	141.6	143.4	143.4	141.6	134.2	119.5	101.1	79.1	53.3
102.5°	128.7	128.7	130.5	130.5	132.4	128.7	121.3	108.5	90.1	69.9	46.0
105°	119.5	119.5	121.3	121.3	119.5	115.8	108.5	97.4	80.9	60.7	40.4
107.5°	112.1	112.1	112.1	112.1	110.3	106.6	99.3	86.4	71.7	55.2	36.8
110°	106.6	104.8	104.8	103.0	101.1	95.6	88.2	77.2	64.3	47.8	31.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	101.1	99.3	97.4	95.6	91.9	86.4	79.1	69.9	57.0	42.3	27.6
115°	95.6	93.8	91.9	88.2	84.6	79.1	71.7	62.5	49.6	36.8	23.9
117.5°	90.1	88.2	84.6	80.9	77.2	71.7	64.3	55.2	44.1	33.1	22.1
120°	82.7	80.9	79.1	75.4	71.7	64.3	57.0	49.6	38.6	29.4	18.4
122.5°	77.2	75.4	71.7	69.9	64.3	58.8	51.5	44.1	34.9	25.7	16.5
125°	69.9	68.0	66.2	62.5	58.8	51.5	46.0	38.6	31.3	22.1	12.9
127.5°	64.3	62.5	58.8	55.2	51.5	46.0	40.4	34.9	27.6	18.4	12.9
130°	57.0	55.2	53.3	49.6	46.0	40.4	36.8	29.4	23.9	16.5	11.0
132.5°	49.6	49.6	47.8	44.1	40.4	36.8	31.3	25.7	20.2	14.7	9.2
135°	46.0	44.1	42.3	38.6	36.8	31.3	27.6	22.1	16.5	12.9	7.4
137.5°	40.4	38.6	36.8	34.9	31.3	27.6	23.9	18.4	14.7	11.0	7.4
140°	34.9	33.1	33.1	29.4	27.6	23.9	20.2	16.5	12.9	9.2	5.5
142.5°	31.3	29.4	27.6	25.7	23.9	20.2	16.5	12.9	11.0	7.4	5.5
145°	27.6	25.7	23.9	22.1	20.2	16.5	14.7	11.0	9.2	7.4	5.5
147.5°	22.1	22.1	20.2	18.4	16.5	14.7	12.9	11.0	7.4	5.5	3.7
150°	18.4	18.4	16.5	14.7	14.7	12.9	11.0	9.2	7.4	5.5	3.7
152.5°	16.5	14.7	14.7	12.9	12.9	11.0	9.2	7.4	5.5	5.5	3.7
155°	12.9	12.9	12.9	11.0	11.0	9.2	7.4	7.4	5.5	3.7	3.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3564.8	3542.7	3561.1	3594.2	3590.5	3586.8	3583.1	3590.5	3614.4	3601.5	3581.3
5°	3559.2	3537.2	3557.4	3588.7	3586.8	3581.3	3577.6	3585.0	3608.9	3596.0	3573.9
7.5°	3548.2	3528.0	3542.7	3573.9	3573.9	3570.3	3566.6	3573.9	3596.0	3585.0	3562.9
10°	3529.8	3515.1	3529.8	3559.2	3561.1	3553.7	3550.1	3559.2	3581.3	3575.8	3557.4
12.5°	3515.1	3500.4	3517.0	3546.4	3548.2	3540.9	3535.3	3546.4	3575.8	3579.5	3573.9
15°	3494.9	3482.0	3502.3	3533.5	3533.5	3528.0	3528.0	3542.7	3583.1	3599.7	3608.9
17.5°	3465.5	3456.3	3480.2	3511.4	3513.3	3509.6	3511.4	3540.9	3594.2	3634.6	3660.4
20°	3428.7	3425.0	3450.8	3483.9	3489.4	3491.2	3500.4	3544.5	3618.1	3673.2	3699.0
22.5°	3384.6	3386.4	3415.8	3450.8	3458.1	3463.6	3482.0	3544.5	3636.5	3695.3	3706.3
25°	3335.0	3340.5	3371.7	3414.0	3423.2	3434.2	3465.5	3546.4	3642.0	3680.6	3662.2
27.5°	3281.6	3292.7	3333.1	3377.2	3388.3	3406.7	3447.1	3535.3	3616.2	3618.1	3550.1
30°	3226.5	3239.4	3287.2	3338.6	3357.0	3375.4	3425.0	3509.6	3553.7	3494.9	3375.4
32.5°	3164.0	3182.4	3230.2	3292.7	3314.7	3338.6	3388.3	3460.0	3443.4	3316.6	3145.6
35°	3084.9	3110.7	3165.8	3239.4	3259.6	3290.8	3325.8	3342.3	3268.8	3088.6	2895.6
37.5°	2987.5	3026.1	3090.4	3175.0	3197.1	3217.3	3226.5	3180.5	3033.4	2838.6	2638.2
40°	2875.3	2934.2	3004.0	3097.8	3119.9	3119.9	3086.8	2989.3	2803.6	2548.1	2325.6
42.5°	2739.3	2811.0	2899.2	2993.0	3015.1	2989.3	2910.3	2739.3	2527.9	2242.9	2007.6
45°	2573.8	2669.4	2768.7	2866.1	2877.2	2820.2	2678.6	2461.7	2200.6	1935.9	1711.6
47.5°	2377.1	2502.1	2610.6	2720.9	2706.2	2610.6	2421.2	2174.9	1899.1	1649.1	1468.9
50°	2156.5	2303.6	2424.9	2529.7	2498.5	2366.1	2143.6	1886.3	1612.3	1399.1	1250.1
52.5°	1921.2	2090.3	2211.7	2296.2	2253.9	2095.8	1851.3	1605.0	1380.7	1185.8	1086.5
55°	1676.7	1847.6	1972.7	2038.8	1983.7	1812.7	1571.9	1347.6	1136.2	1009.3	950.5
57.5°	1439.5	1599.5	1717.1	1770.4	1700.6	1529.6	1307.1	1117.8	965.2	858.6	829.1
60°	1211.5	1342.1	1454.2	1494.7	1419.3	1261.2	1070.0	919.2	807.1	733.5	718.8
62.5°	1000.1	1106.7	1195.0	1226.2	1152.7	1029.5	864.1	751.9	672.9	636.1	617.7
65°	825.5	888.0	978.1	972.5	928.4	814.4	693.1	614.0	562.6	538.7	527.6
67.5°	649.0	706.0	763.0	770.3	715.2	636.1	557.1	500.1	472.5	459.6	454.1
70°	501.9	544.2	579.1	569.9	540.5	490.9	441.2	410.0	398.9	393.4	393.4
72.5°	389.8	411.8	428.4	417.3	398.9	373.2	349.3	336.4	338.3	342.0	345.6
75°	301.5	307.0	310.7	299.7	296.0	279.4	277.6	279.4	290.5	301.5	307.0
77.5°	231.6	224.3	218.8	207.7	209.6	207.7	216.9	231.6	248.2	264.7	279.4
80°	178.3	161.8	148.9	137.9	143.4	152.6	171.0	193.0	215.1	233.5	251.9
82.5°	137.9	114.0	95.6	84.6	95.6	110.3	134.2	161.8	187.5	207.7	228.0
85°	106.6	79.1	57.0	46.0	57.0	79.1	104.8	136.0	163.6	185.7	205.9
87.5°	82.7	57.0	31.3	18.4	31.3	55.2	84.6	114.0	141.6	167.3	187.5
90°	66.2	38.6	14.7	3.7	16.5	38.6	66.2	95.6	123.2	150.8	171.0
92.5°	53.3	27.6	7.4	0.0	9.2	29.4	55.2	82.7	110.3	136.0	156.3
95°	44.1	22.1	5.5	0.0	7.4	22.1	44.1	71.7	97.4	123.2	139.7
97.5°	36.8	16.5	3.7	0.0	3.7	18.4	36.8	60.7	86.4	110.3	126.9
100°	31.3	14.7	3.7	0.0	3.7	14.7	31.3	53.3	75.4	97.4	114.0
102.5°	25.7	11.0	1.8	1.8	1.8	11.0	27.6	46.0	66.2	86.4	103.0
105°	23.9	9.2	1.8	1.8	1.8	9.2	23.9	40.4	58.8	77.2	91.9
107.5°	20.2	7.4	1.8	1.8	1.8	7.4	20.2	34.9	53.3	69.9	82.7
110°	16.5	7.4	1.8	1.8	1.8	7.4	16.5	31.3	46.0	60.7	73.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.7	5.5	1.8	1.8	1.8	5.5	14.7	27.6	40.4	55.2	66.2
115°	12.9	5.5	1.8	1.8	1.8	5.5	12.9	23.9	34.9	47.8	58.8
117.5°	11.0	5.5	1.8	1.8	1.8	3.7	11.0	20.2	31.3	42.3	53.3
120°	9.2	3.7	1.8	1.8	1.8	3.7	9.2	18.4	27.6	36.8	46.0
122.5°	9.2	3.7	1.8	1.8	1.8	3.7	7.4	14.7	23.9	31.3	40.4
125°	7.4	3.7	1.8	1.8	1.8	1.8	7.4	12.9	20.2	27.6	34.9
127.5°	7.4	3.7	1.8	1.8	1.8	1.8	5.5	11.0	16.5	23.9	31.3
130°	5.5	3.7	1.8	1.8	1.8	1.8	3.7	9.2	14.7	20.2	25.7
132.5°	5.5	3.7	1.8	1.8	1.8	1.8	3.7	7.4	11.0	16.5	22.1
135°	5.5	1.8	1.8	1.8	1.8	1.8	1.8	5.5	9.2	12.9	16.5
137.5°	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	7.4	9.2	14.7
140°	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	7.4	11.0
142.5°	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	9.2
145°	3.7	1.8	1.8	3.7	3.7	1.8	1.8	3.7	3.7	5.5	7.4
147.5°	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5
150°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3577.6	3535.3	3557.4	3550.1	3557.4	3575.8	3573.9	3568.4	3572.1	3562.9	3553.7
5°	3570.3	3528.0	3550.1	3540.9	3550.1	3568.4	3564.8	3559.2	3564.8	3553.7	3544.5
7.5°	3561.1	3522.5	3548.2	3546.4	3562.9	3586.8	3588.7	3588.7	3601.5	3585.0	3577.6
10°	3561.1	3540.9	3575.8	3588.7	3630.9	3662.2	3665.9	3673.2	3695.3	3691.6	3673.2
12.5°	3599.7	3596.0	3647.5	3678.7	3717.3	3761.5	3785.4	3792.7	3807.4	3796.4	3789.0
15°	3649.3	3667.7	3724.7	3759.6	3801.9	3835.0	3840.5	3844.2	3855.2	3838.7	3825.8
17.5°	3715.5	3726.5	3772.5	3787.2	3814.8	3820.3	3812.9	3794.6	3794.6	3757.8	3746.8
20°	3746.8	3741.2	3759.6	3735.7	3724.7	3691.6	3660.4	3625.4	3623.6	3585.0	3581.3
22.5°	3719.2	3682.4	3643.8	3585.0	3559.2	3511.4	3469.2	3448.9	3436.1	3386.4	3373.6
25°	3621.7	3531.7	3474.7	3404.8	3342.3	3287.2	3246.7	3204.4	3164.0	3123.5	3105.1
27.5°	3452.6	3368.0	3276.1	3178.7	3092.3	3007.7	2939.7	2897.4	2858.8	2805.5	2777.9
30°	3244.9	3127.2	3026.1	2932.3	2790.8	2687.8	2630.8	2546.3	2516.8	2492.9	2441.5
32.5°	3000.4	2858.8	2720.9	2594.1	2448.8	2353.2	2277.8	2215.3	2196.9	2134.4	2119.7
35°	2730.1	2544.4	2388.1	2263.1	2158.3	2042.5	1980.0	1937.7	1901.0	1858.7	1851.3
37.5°	2412.0	2244.7	2068.3	1958.0	1875.2	1775.9	1728.1	1698.7	1682.2	1650.9	1645.4
40°	2092.2	1924.9	1803.5	1693.2	1641.7	1588.4	1553.5	1540.6	1533.3	1522.2	1511.2
42.5°	1801.7	1654.6	1568.2	1494.7	1472.6	1446.9	1437.7	1445.0	1437.7	1434.0	1432.2
45°	1555.3	1443.2	1382.5	1360.5	1354.9	1347.6	1354.9	1367.8	1369.6	1366.0	1366.0
47.5°	1331.0	1277.7	1252.0	1255.7	1264.9	1270.4	1283.2	1299.8	1303.5	1294.3	1297.9
50°	1184.0	1152.7	1147.2	1161.9	1182.1	1189.5	1204.2	1217.1	1215.2	1211.5	1207.9
52.5°	1046.1	1036.9	1051.6	1066.3	1088.4	1092.0	1097.6	1103.1	1101.2	1093.9	1090.2
55°	930.3	937.6	950.5	956.0	972.5	970.7	972.5	972.5	965.2	961.5	956.0
57.5°	825.5	827.3	834.7	836.5	845.7	842.0	840.2	836.5	825.5	823.6	818.1
60°	718.8	715.2	731.7	718.8	726.2	718.8	717.0	707.8	696.8	694.9	691.3
62.5°	617.7	610.4	621.4	615.9	619.6	612.2	608.5	597.5	588.3	586.5	584.6
65°	527.6	524.0	535.0	533.2	536.8	527.6	524.0	516.6	509.3	507.4	505.6
67.5°	452.3	461.5	467.0	467.0	470.6	468.8	459.6	457.8	455.9	448.6	448.6
70°	397.1	402.6	413.7	415.5	413.7	417.3	410.0	408.1	406.3	402.6	400.8
72.5°	353.0	360.3	371.4	373.2	371.4	371.4	367.7	365.9	365.9	360.3	360.3
75°	318.1	327.2	336.4	336.4	336.4	332.8	329.1	329.1	325.4	323.6	319.9
77.5°	288.6	299.7	307.0	305.2	303.3	299.7	299.7	294.2	288.6	288.6	285.0
80°	266.6	273.9	279.4	277.6	275.8	270.3	268.4	262.9	259.2	253.7	253.7
82.5°	242.7	251.9	255.5	253.7	250.0	244.5	242.7	239.0	235.3	233.5	229.8
85°	222.5	231.6	233.5	229.8	226.1	222.5	220.6	218.8	216.9	213.3	213.3
87.5°	202.2	211.4	211.4	209.6	205.9	204.1	202.2	200.4	198.6	196.7	194.9
90°	185.7	193.0	193.0	191.2	189.4	187.5	185.7	183.8	182.0	180.2	180.2
92.5°	169.1	176.5	176.5	174.7	172.8	171.0	171.0	169.1	167.3	165.5	163.6
95°	154.4	161.8	161.8	161.8	159.9	158.1	158.1	156.3	154.4	154.4	152.6
97.5°	139.7	147.1	147.1	147.1	145.2	143.4	143.4	141.6	141.6	141.6	139.7
100°	126.9	132.4	134.2	134.2	132.4	132.4	132.4	130.5	130.5	130.5	128.7
102.5°	114.0	119.5	123.2	123.2	123.2	121.3	121.3	121.3	121.3	121.3	119.5
105°	103.0	108.5	112.1	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
107.5°	93.8	99.3	103.0	104.8	106.6	106.6	108.5	108.5	108.5	108.5	108.5
110°	84.6	90.1	95.6	97.4	99.3	101.1	101.1	103.0	101.1	101.1	101.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	75.4	82.7	86.4	90.1	91.9	93.8	95.6	95.6	95.6	95.6	95.6
115°	68.0	75.4	79.1	82.7	86.4	88.2	88.2	90.1	90.1	90.1	88.2
117.5°	60.7	68.0	71.7	75.4	77.2	80.9	82.7	82.7	82.7	82.7	80.9
120°	55.2	60.7	64.3	68.0	71.7	73.5	75.4	75.4	75.4	75.4	75.4
122.5°	47.8	53.3	58.8	62.5	64.3	66.2	68.0	68.0	68.0	68.0	68.0
125°	42.3	47.8	51.5	55.2	57.0	60.7	60.7	60.7	60.7	60.7	60.7
127.5°	36.8	42.3	46.0	49.6	51.5	53.3	55.2	55.2	55.2	55.2	55.2
130°	31.3	36.8	40.4	44.1	46.0	47.8	47.8	49.6	49.6	49.6	49.6
132.5°	27.6	31.3	34.9	38.6	40.4	42.3	42.3	44.1	44.1	44.1	44.1
135°	22.1	27.6	29.4	33.1	34.9	36.8	36.8	38.6	38.6	38.6	38.6
137.5°	18.4	22.1	25.7	29.4	31.3	31.3	33.1	33.1	34.9	34.9	34.9
140°	14.7	16.5	22.1	23.9	25.7	27.6	29.4	29.4	29.4	29.4	29.4
142.5°	11.0	14.7	16.5	20.2	22.1	23.9	25.7	25.7	25.7	25.7	25.7
145°	9.2	11.0	12.9	16.5	18.4	20.2	22.1	22.1	22.1	22.1	22.1
147.5°	7.4	9.2	11.0	12.9	14.7	16.5	18.4	18.4	18.4	18.4	18.4
150°	5.5	7.4	9.2	9.2	11.0	12.9	14.7	16.5	16.5	16.5	16.5
152.5°	5.5	5.5	7.4	7.4	9.2	11.0	12.9	12.9	12.9	12.9	12.9
155°	3.7	5.5	5.5	5.5	7.4	7.4	9.2	11.0	11.0	11.0	11.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3559.2	3566.6	3562.9	3557.4	3555.6	3564.8	3555.6	3513.3	3529.8	3531.7	3544.5
5°	3553.7	3559.2	3555.6	3551.9	3546.4	3557.4	3546.4	3502.3	3518.8	3520.6	3533.5
7.5°	3590.5	3592.3	3592.3	3583.1	3568.4	3573.9	3559.2	3509.6	3518.8	3518.8	3528.0
10°	3682.4	3686.1	3691.6	3667.7	3649.3	3634.6	3614.4	3553.7	3551.9	3537.2	3537.2
12.5°	3801.9	3792.7	3783.5	3772.5	3757.8	3739.4	3710.0	3638.3	3614.4	3590.5	3566.6
15°	3836.8	3833.2	3831.3	3825.8	3816.6	3811.1	3789.0	3717.3	3682.4	3653.0	3610.7
17.5°	3744.9	3752.3	3776.2	3778.0	3789.0	3811.1	3807.4	3757.8	3726.5	3713.7	3662.2
20°	3579.5	3581.3	3610.7	3623.6	3671.4	3708.2	3735.7	3730.2	3722.9	3737.6	3699.0
22.5°	3380.9	3393.8	3425.0	3445.3	3491.2	3533.5	3577.6	3601.5	3640.1	3700.8	3693.4
25°	3110.7	3127.2	3171.3	3204.4	3268.8	3333.1	3391.9	3434.2	3480.2	3596.0	3634.6
27.5°	2787.1	2812.8	2869.8	2902.9	2993.0	3059.2	3143.8	3226.5	3290.8	3423.2	3502.3
30°	2447.0	2469.0	2529.7	2575.7	2652.9	2743.0	2849.6	2967.3	3073.9	3208.1	3307.4
32.5°	2128.9	2152.8	2202.5	2242.9	2329.3	2404.7	2522.4	2667.6	2766.9	2952.6	3084.9
35°	1851.3	1873.4	1908.3	1943.2	2014.9	2092.2	2193.3	2334.8	2461.7	2654.7	2822.0
37.5°	1656.4	1660.1	1680.3	1700.6	1753.9	1812.7	1891.8	2016.8	2134.4	2342.2	2526.0
40°	1516.7	1516.7	1527.8	1533.3	1557.2	1592.1	1641.7	1739.2	1836.6	1994.7	2219.0
42.5°	1430.3	1426.6	1426.6	1428.5	1426.6	1443.2	1472.6	1518.6	1605.0	1735.5	1910.2
45°	1366.0	1358.6	1353.1	1340.2	1332.9	1332.9	1334.7	1351.3	1400.9	1485.5	1627.0
47.5°	1294.3	1292.4	1283.2	1268.5	1255.7	1246.5	1231.8	1226.2	1241.0	1288.8	1384.4
50°	1211.5	1202.3	1193.2	1182.1	1167.4	1158.2	1130.6	1132.5	1119.6	1141.7	1191.3
52.5°	1090.2	1082.8	1079.2	1070.0	1064.5	1060.8	1038.7	1016.7	1011.1	1014.8	1033.2
55°	956.0	959.7	945.0	952.3	950.5	933.9	924.7	908.2	902.7	900.8	910.0
57.5°	816.3	819.9	810.8	818.1	818.1	808.9	803.4	803.4	790.5	779.5	792.4
60°	689.4	682.1	687.6	696.8	696.8	691.3	687.6	687.6	678.4	674.7	683.9
62.5°	586.5	579.1	584.6	593.8	595.7	592.0	588.3	588.3	577.3	577.3	584.6
65°	507.4	509.3	507.4	514.8	514.8	516.6	512.9	509.3	496.4	501.9	500.1
67.5°	450.4	448.6	448.6	455.9	454.1	457.8	454.1	448.6	439.4	432.0	430.2
70°	402.6	400.8	400.8	404.5	406.3	406.3	404.5	400.8	387.9	380.6	375.0
72.5°	360.3	358.5	360.3	362.2	364.0	365.9	364.0	360.3	349.3	340.1	330.9
75°	321.7	319.9	325.4	325.4	327.2	327.2	329.1	327.2	318.1	307.0	296.0
77.5°	283.1	285.0	290.5	292.3	296.0	297.8	299.7	299.7	290.5	281.3	266.6
80°	251.9	255.5	259.2	261.1	264.7	270.3	272.1	273.9	266.6	257.4	240.8
82.5°	229.8	231.6	235.3	237.2	242.7	244.5	246.4	250.0	246.4	237.2	218.8
85°	211.4	213.3	216.9	216.9	220.6	224.3	226.1	228.0	226.1	216.9	198.6
87.5°	194.9	196.7	198.6	200.4	202.2	204.1	205.9	207.7	205.9	196.7	180.2
90°	180.2	180.2	182.0	182.0	183.8	185.7	189.4	189.4	187.5	180.2	163.6
92.5°	163.6	165.5	165.5	167.3	169.1	171.0	172.8	172.8	171.0	163.6	148.9
95°	152.6	152.6	154.4	154.4	156.3	156.3	158.1	158.1	156.3	148.9	134.2
97.5°	139.7	139.7	139.7	139.7	141.6	141.6	143.4	143.4	141.6	134.2	121.3
100°	128.7	128.7	128.7	128.7	128.7	130.5	130.5	130.5	128.7	121.3	108.5
102.5°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	115.8	110.3	97.4
105°	114.0	114.0	114.0	112.1	112.1	112.1	110.3	110.3	104.8	99.3	88.2
107.5°	106.6	106.6	106.6	104.8	104.8	103.0	101.1	101.1	95.6	90.1	79.1
110°	101.1	101.1	101.1	99.3	97.4	95.6	93.8	91.9	86.4	79.1	69.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	95.6	95.6	93.8	93.8	91.9	90.1	86.4	84.6	79.1	71.7	62.5
115°	88.2	88.2	88.2	86.4	84.6	82.7	80.9	77.2	71.7	64.3	55.2
117.5°	80.9	80.9	80.9	79.1	77.2	75.4	73.5	69.9	64.3	57.0	49.6
120°	73.5	73.5	73.5	71.7	69.9	68.0	66.2	62.5	57.0	51.5	42.3
122.5°	68.0	68.0	66.2	64.3	62.5	60.7	58.8	55.2	51.5	44.1	36.8
125°	60.7	60.7	58.8	58.8	57.0	55.2	53.3	49.6	44.1	38.6	33.1
127.5°	55.2	53.3	53.3	53.3	51.5	49.6	46.0	44.1	38.6	33.1	27.6
130°	47.8	47.8	47.8	46.0	46.0	44.1	40.4	36.8	33.1	29.4	23.9
132.5°	42.3	42.3	42.3	42.3	40.4	38.6	34.9	33.1	29.4	23.9	20.2
135°	38.6	38.6	36.8	36.8	34.9	33.1	31.3	27.6	23.9	20.2	16.5
137.5°	33.1	33.1	33.1	31.3	31.3	29.4	25.7	23.9	22.1	18.4	14.7
140°	29.4	29.4	27.6	27.6	25.7	25.7	23.9	20.2	18.4	14.7	12.9
142.5°	25.7	25.7	23.9	23.9	22.1	22.1	20.2	18.4	14.7	12.9	9.2
145°	22.1	22.1	20.2	20.2	20.2	18.4	16.5	14.7	12.9	11.0	9.2
147.5°	18.4	18.4	18.4	16.5	16.5	14.7	14.7	12.9	11.0	9.2	7.4
150°	16.5	16.5	14.7	14.7	14.7	12.9	11.0	11.0	9.2	7.4	5.5
152.5°	12.9	12.9	12.9	12.9	11.0	11.0	9.2	9.2	7.4	5.5	5.5
155°	11.0	11.0	11.0	9.2	9.2	9.2	7.4	7.4	5.5	5.5	3.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2	3559.2
2.5°	3539.0	3537.2	3553.7	3551.9	3529.8	3562.9	3585.0
5°	3529.8	3528.0	3542.7	3546.4	3522.5	3557.4	3581.3
7.5°	3522.5	3520.6	3537.2	3542.7	3518.8	3550.1	3575.8
10°	3524.3	3515.1	3529.8	3533.5	3511.4	3544.5	3566.6
12.5°	3537.2	3515.1	3520.6	3520.6	3500.4	3529.8	3553.7
15°	3568.4	3522.5	3515.1	3509.6	3483.9	3511.4	3535.3
17.5°	3603.4	3540.9	3515.1	3496.7	3465.5	3489.4	3515.1
20°	3638.3	3561.1	3518.8	3489.4	3447.1	3469.2	3487.5
22.5°	3654.8	3579.5	3522.5	3478.4	3425.0	3436.1	3456.3
25°	3632.8	3572.1	3515.1	3461.8	3397.5	3399.3	3415.8
27.5°	3551.9	3535.3	3498.6	3445.3	3375.4	3366.2	3379.1
30°	3414.0	3460.0	3461.8	3423.2	3349.7	3331.3	3336.8
32.5°	3221.0	3323.9	3384.6	3377.2	3312.9	3287.2	3290.8
35°	2998.5	3127.2	3259.6	3303.7	3257.7	3237.5	3230.2
37.5°	2731.9	2904.8	3081.2	3189.7	3182.4	3169.5	3162.1
40°	2437.8	2645.5	2855.1	3027.9	3081.2	3081.2	3084.9
42.5°	2123.4	2366.1	2595.9	2814.7	2939.7	2967.3	2978.3
45°	1820.1	2064.6	2314.6	2566.5	2733.8	2820.2	2851.4
47.5°	1544.3	1790.7	2027.8	2303.6	2526.0	2638.2	2687.8
50°	1309.0	1492.8	1742.9	2016.8	2259.5	2397.3	2494.8
52.5°	1114.1	1257.5	1476.3	1731.8	1976.3	2165.7	2255.8
55°	950.5	1047.9	1233.6	1454.2	1687.7	1884.4	1989.2
57.5°	812.6	889.8	1016.7	1200.5	1397.2	1592.1	1704.2
60°	691.3	744.6	831.0	976.2	1143.5	1310.8	1419.3
62.5°	586.5	621.4	678.4	785.0	915.5	1046.1	1147.2
65°	505.6	520.3	551.5	617.7	717.0	816.3	902.7
67.5°	426.5	435.7	459.6	500.1	549.7	621.4	678.4
70°	367.7	367.7	369.5	393.4	419.2	465.1	505.6
72.5°	319.9	314.4	303.3	308.9	314.4	340.1	365.9
75°	281.3	268.4	250.0	242.7	239.0	242.7	257.4
77.5°	248.2	229.8	207.7	189.4	174.7	169.1	182.0
80°	220.6	198.6	172.8	148.9	125.0	112.1	117.7
82.5°	198.6	171.0	143.4	115.8	88.2	69.9	69.9
85°	174.7	148.9	119.5	90.1	62.5	38.6	34.9
87.5°	158.1	130.5	99.3	71.7	44.1	20.2	11.0
90°	141.6	114.0	84.6	57.0	31.3	9.2	0.0
92.5°	126.9	101.1	73.5	46.0	22.1	5.5	0.0
95°	114.0	90.1	62.5	38.6	18.4	3.7	1.8
97.5°	101.1	79.1	55.2	31.3	12.9	3.7	1.8
100°	91.9	69.9	47.8	25.7	11.0	1.8	1.8
102.5°	80.9	62.5	40.4	22.1	9.2	1.8	1.8
105°	71.7	55.2	34.9	18.4	7.4	1.8	1.8
107.5°	64.3	47.8	31.3	16.5	7.4	1.8	1.8
110°	57.0	42.3	27.6	14.7	5.5	1.8	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	51.5	36.8	23.9	12.9	3.7	1.8	1.8
115°	44.1	33.1	20.2	11.0	3.7	1.8	1.8
117.5°	38.6	27.6	18.4	9.2	3.7	1.8	1.8
120°	33.1	23.9	14.7	7.4	1.8	1.8	1.8
122.5°	29.4	20.2	12.9	7.4	1.8	1.8	1.8
125°	25.7	18.4	11.0	5.5	1.8	1.8	1.8
127.5°	22.1	14.7	9.2	3.7	1.8	1.8	1.8
130°	18.4	12.9	7.4	3.7	1.8	1.8	1.8
132.5°	14.7	11.0	7.4	3.7	1.8	1.8	1.8
135°	12.9	9.2	5.5	3.7	1.8	1.8	1.8
137.5°	11.0	7.4	3.7	3.7	3.7	1.8	1.8
140°	9.2	5.5	3.7	3.7	3.7	3.7	1.8
142.5°	7.4	5.5	3.7	3.7	3.7	3.7	1.8
145°	5.5	3.7	3.7	3.7	3.7	3.7	1.8
147.5°	5.5	3.7	3.7	3.7	3.7	3.7	1.8
150°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)