

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-128SL-LN-UNV-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10369.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

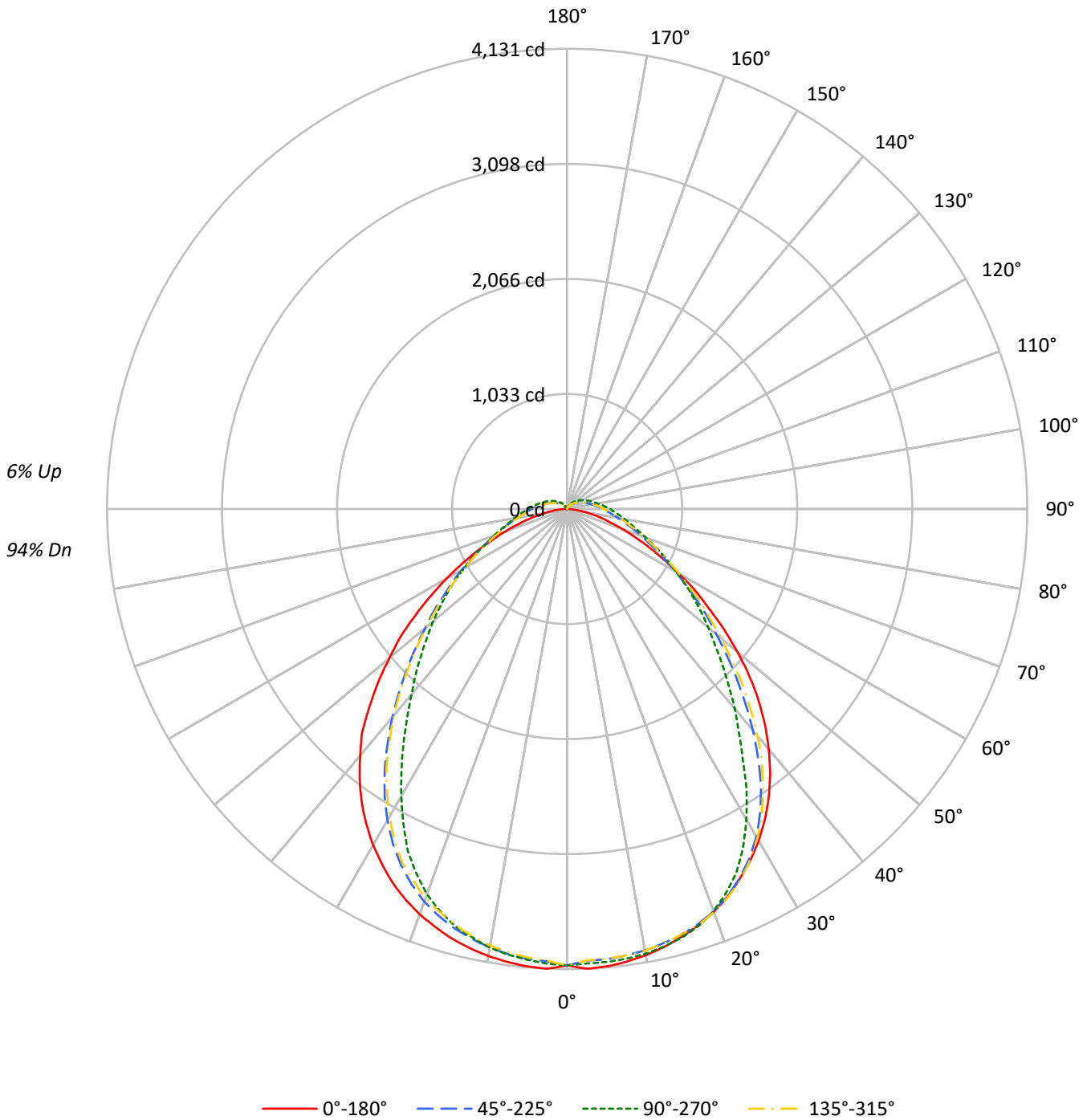
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16555	16555	16555	16555
5°	16696	16028	16696	15957
10°	16644	15602	16672	15385
15°	16560	15136	16636	14742
20°	16458	14536	16554	13922
25°	16219	13647	16399	12843
30°	15902	12341	16110	11425
35°	15395	10739	15691	10000
40°	14655	9392	15042	8715
45°	13669	8165	14113	7696
50°	12308	7175	12850	6812
55°	10684	6335	11461	6015
60°	9025	5563	9841	5242
65°	7443	4918	8193	4560
70°	5974	4365	6689	4037
75°	4754	4030	5352	3708
80°	3516	3889	4142	3553
85°	2305	3910	3104	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.4	3.7
10°-20°	1113.8	10.7
20°-30°	1650.7	15.9
30°-40°	1833.9	17.7
40°-50°	1662.4	16.0
50°-60°	1288.2	12.4
60°-70°	874.8	8.4
70°-80°	556.5	5.4
80°-90°	355.8	3.4
90°-100°	239.9	2.3
100°-110°	164.3	1.6
110°-120°	109.6	1.1
120°-130°	68.2	0.7
130°-140°	37.7	0.4
140°-150°	17.7	0.2
150°-160°	6.5	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	3153.0	30.4
0°-40°	4986.9	48.1
0°-60°	7937.6	76.6
0°-90°	9724.7	93.8
90°-120°	513.8	5.0
90°-150°	637.4	6.1
90°-180°	644.0	6.2
0°-180°	10369.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4097	4097	4097	4097	4097	
5°	4122	4081	4122	4063	4122	392
15°	3976	3982	3994	3879	3976	1122
25°	3664	3597	3705	3385	3664	1688
35°	3155	2750	3216	2560	3155	1968
45°	2430	1965	2508	1852	2430	1866
55°	1550	1382	1663	1312	1550	1396
65°	805	928	886	861	805	807
75°	322	620	363	570	322	347
85°	59	446	79	410	59	70
90°	0	385	4	352	0	3
95°	2	329	0	306	2	2
105°	2	241	0	228	2	2
115°	2	182	0	169	2	2
125°	2	135	2	119	2	2
135°	2	95	2	77	2	2
145°	2	61	2	43	2	1
155°	2	34	2	16	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4131.0	4126.5	4122.0	4115.3	4122.0	4140.0	4128.8	4104.0	4099.5	4058.9	4076.9
5°	4122.0	4115.3	4110.7	4104.0	4113.0	4135.5	4124.3	4101.7	4095.0	4056.7	4076.9
7.5°	4099.5	4095.0	4088.2	4088.2	4097.2	4119.8	4110.7	4086.0	4081.4	4043.1	4065.7
10°	4067.9	4065.7	4061.2	4061.2	4070.2	4097.2	4086.0	4063.4	4058.9	4022.9	4047.6
12.5°	4027.4	4029.6	4022.9	4022.9	4036.4	4063.4	4054.4	4029.6	4025.1	3993.6	4018.3
15°	3975.5	3977.8	3973.3	3975.5	3989.0	4020.6	4009.3	3986.8	3982.3	3957.5	3977.8
17.5°	3916.9	3919.2	3919.2	3916.9	3932.7	3964.3	3955.2	3935.0	3928.2	3907.9	3932.7
20°	3849.3	3849.3	3849.3	3849.3	3867.3	3898.9	3887.6	3871.9	3858.3	3842.6	3862.8
22.5°	3765.9	3763.7	3765.9	3772.7	3790.7	3815.5	3808.8	3790.7	3770.4	3761.4	3777.2
25°	3664.5	3671.3	3673.5	3680.3	3702.8	3723.1	3716.4	3698.3	3666.8	3660.0	3664.5
27.5°	3558.6	3563.1	3569.9	3567.6	3599.2	3619.4	3605.9	3590.1	3545.1	3538.3	3533.8
30°	3439.1	3445.9	3450.4	3448.2	3473.0	3495.5	3482.0	3461.7	3400.8	3396.3	3360.3
32.5°	3303.9	3310.7	3315.2	3315.2	3351.3	3360.3	3335.5	3306.2	3240.8	3225.0	3193.5
35°	3155.2	3161.9	3164.2	3164.2	3200.3	3198.0	3166.4	3125.9	3053.8	3033.5	2979.4
37.5°	2995.2	2999.7	3001.9	3015.4	3031.2	3017.7	2977.1	2925.3	2871.2	2814.9	2756.3
40°	2814.9	2821.6	2826.1	2835.2	2850.9	2835.2	2776.6	2713.5	2654.9	2591.8	2533.2
42.5°	2630.1	2650.4	2645.8	2643.6	2652.6	2609.8	2564.7	2492.6	2434.0	2368.6	2310.0
45°	2429.5	2427.2	2438.5	2443.0	2440.8	2404.7	2341.6	2276.2	2217.6	2150.0	2100.4
47.5°	2217.6	2215.4	2224.4	2228.9	2215.4	2177.1	2127.5	2053.1	2003.5	1944.9	1906.6
50°	1994.5	1994.5	2008.0	1994.5	1987.8	1949.4	1908.9	1834.5	1796.2	1744.4	1721.8
52.5°	1771.4	1791.7	1778.2	1773.7	1766.9	1728.6	1697.0	1636.2	1604.6	1582.1	1555.1
55°	1550.5	1573.1	1564.1	1557.3	1555.1	1523.5	1494.2	1449.1	1428.8	1413.1	1397.3
57.5°	1363.5	1361.2	1356.7	1350.0	1352.2	1327.4	1298.1	1273.3	1264.3	1257.6	1262.1
60°	1147.1	1165.2	1158.4	1160.7	1162.9	1158.4	1133.6	1117.8	1120.1	1122.3	1129.1
62.5°	969.1	984.9	996.1	987.1	991.6	998.4	984.9	980.4	989.4	998.4	1007.4
65°	804.6	820.3	831.6	829.4	842.9	856.4	854.2	858.7	878.9	890.2	901.5
67.5°	655.8	671.6	687.4	689.6	709.9	730.2	739.2	755.0	777.5	793.3	806.8
70°	527.4	540.9	558.9	570.2	597.2	624.3	640.1	671.6	685.1	707.7	716.7
72.5°	412.4	423.7	448.5	475.5	498.1	531.9	563.4	590.5	610.8	635.5	646.8
75°	322.3	326.8	353.8	385.4	416.9	455.2	489.1	518.4	545.4	570.2	588.2
77.5°	236.6	243.4	268.2	311.0	347.1	387.6	425.9	457.5	486.8	511.6	536.4
80°	164.5	178.0	205.1	247.9	288.5	333.5	369.6	405.7	437.2	462.0	486.8
82.5°	105.9	117.2	155.5	198.3	241.1	286.2	324.5	360.6	394.4	421.4	444.0
85°	58.6	74.4	112.7	157.8	200.6	245.7	286.2	322.3	356.1	380.9	403.4
87.5°	22.5	45.1	81.1	124.0	166.8	209.6	252.4	286.2	320.0	347.1	367.4
90°	0.0	27.0	60.8	103.7	146.5	189.3	229.9	265.9	297.5	322.3	344.8
92.5°	2.3	18.0	47.3	83.4	124.0	164.5	202.8	238.9	270.4	295.2	315.5
95°	2.3	13.5	38.3	72.1	108.2	146.5	182.5	216.4	245.7	270.4	290.7
97.5°	2.3	9.0	31.6	63.1	94.7	133.0	166.8	198.3	225.4	250.2	265.9
100°	2.3	9.0	27.0	54.1	85.6	119.4	151.0	182.5	207.3	227.6	245.7
102.5°	2.3	6.8	22.5	47.3	76.6	105.9	137.5	166.8	189.3	209.6	227.6
105°	2.3	6.8	20.3	40.6	67.6	96.9	124.0	151.0	175.8	193.8	209.6
107.5°	2.3	4.5	18.0	33.8	58.6	87.9	114.9	137.5	160.0	178.0	193.8
110°	2.3	4.5	15.8	31.6	51.8	78.9	103.7	126.2	146.5	164.5	178.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.3	4.5	13.5	29.3	47.3	69.9	94.7	114.9	135.2	151.0	164.5
115°	2.3	4.5	13.5	27.0	42.8	60.8	83.4	105.9	121.7	139.7	151.0
117.5°	2.3	4.5	11.3	22.5	40.6	56.3	76.6	94.7	112.7	128.5	139.7
120°	2.3	4.5	11.3	20.3	36.1	51.8	67.6	85.6	103.7	114.9	126.2
122.5°	2.3	4.5	9.0	20.3	31.6	47.3	60.8	76.6	92.4	105.9	117.2
125°	2.3	4.5	9.0	18.0	29.3	42.8	56.3	67.6	83.4	94.7	105.9
127.5°	2.3	4.5	9.0	15.8	27.0	38.3	51.8	63.1	74.4	85.6	94.7
130°	2.3	4.5	6.8	13.5	24.8	33.8	45.1	58.6	67.6	76.6	85.6
132.5°	2.3	4.5	6.8	13.5	20.3	29.3	40.6	51.8	60.8	69.9	76.6
135°	2.3	4.5	6.8	11.3	18.0	27.0	33.8	45.1	54.1	63.1	69.9
137.5°	2.3	4.5	6.8	11.3	15.8	22.5	29.3	38.3	47.3	54.1	63.1
140°	2.3	4.5	6.8	9.0	13.5	20.3	27.0	31.6	40.6	47.3	54.1
142.5°	2.3	4.5	6.8	9.0	13.5	18.0	22.5	27.0	33.8	40.6	47.3
145°	2.3	4.5	6.8	9.0	11.3	15.8	20.3	24.8	27.0	33.8	38.3
147.5°	2.3	4.5	6.8	9.0	9.0	13.5	18.0	20.3	24.8	27.0	31.6
150°	2.3	4.5	6.8	6.8	9.0	11.3	15.8	18.0	20.3	24.8	27.0
152.5°	2.3	4.5	6.8	6.8	9.0	11.3	13.5	15.8	18.0	20.3	22.5
155°	2.3	4.5	6.8	6.8	6.8	9.0	11.3	13.5	15.8	18.0	20.3
157.5°	4.5	4.5	4.5	6.8	6.8	9.0	9.0	11.3	13.5	13.5	15.8
160°	4.5	4.5	4.5	6.8	6.8	6.8	9.0	9.0	11.3	11.3	13.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4072.4	4079.2	4099.5	4099.5	4095.0	4090.5	4090.5	4083.7	4088.2	4097.2	4092.7
5°	4072.4	4079.2	4099.5	4099.5	4095.0	4090.5	4088.2	4081.4	4088.2	4097.2	4092.7
7.5°	4058.9	4067.9	4088.2	4088.2	4083.7	4081.4	4076.9	4072.4	4079.2	4088.2	4083.7
10°	4040.9	4049.9	4070.2	4070.2	4065.7	4065.7	4058.9	4054.4	4063.4	4070.2	4067.9
12.5°	4013.8	4025.1	4043.1	4040.9	4036.4	4038.6	4031.9	4022.9	4031.9	4038.6	4040.9
15°	3975.5	3989.0	4007.1	4002.6	3995.8	4000.3	3989.0	3982.3	3989.0	4002.6	4000.3
17.5°	3925.9	3935.0	3948.5	3948.5	3941.7	3937.2	3932.7	3925.9	3930.5	3939.5	3941.7
20°	3856.1	3867.3	3874.1	3867.3	3865.1	3858.3	3849.3	3842.6	3851.6	3865.1	3867.3
22.5°	3763.7	3765.9	3781.7	3765.9	3754.7	3752.4	3743.4	3729.9	3743.4	3754.7	3756.9
25°	3648.7	3660.0	3653.2	3626.2	3626.2	3608.2	3603.7	3596.9	3599.2	3619.4	3628.5
27.5°	3502.2	3506.8	3488.7	3466.2	3445.9	3434.6	3418.9	3421.1	3421.1	3448.2	3457.2
30°	3342.2	3317.4	3301.7	3265.6	3249.8	3222.8	3218.3	3218.3	3213.8	3227.3	3267.9
32.5°	3150.7	3116.9	3092.1	3058.3	3031.2	3004.2	2990.7	2997.4	2995.2	3029.0	3042.5
35°	2941.1	2920.8	2869.0	2826.1	2810.4	2769.8	2769.8	2749.5	2763.0	2801.3	2817.1
37.5°	2720.2	2688.7	2645.8	2598.5	2587.2	2555.7	2544.4	2533.2	2562.5	2569.2	2585.0
40°	2494.8	2465.5	2425.0	2379.9	2379.9	2341.6	2341.6	2341.6	2343.8	2357.4	2386.7
42.5°	2280.7	2249.2	2213.1	2181.6	2177.1	2147.8	2147.8	2145.5	2150.0	2161.3	2188.3
45°	2073.4	2048.6	2010.3	1994.5	1996.8	1965.2	1972.0	1965.2	1974.2	1985.5	1994.5
47.5°	1881.8	1866.1	1850.3	1827.8	1821.0	1818.7	1807.5	1798.5	1814.2	1814.2	1827.8
50°	1703.8	1694.8	1685.8	1672.2	1674.5	1665.5	1652.0	1652.0	1663.2	1665.5	1674.5
52.5°	1548.3	1537.0	1525.8	1528.0	1530.3	1525.8	1519.0	1512.2	1519.0	1523.5	1534.8
55°	1392.8	1383.8	1395.0	1390.5	1395.0	1390.5	1386.0	1381.5	1392.8	1386.0	1397.3
57.5°	1253.1	1262.1	1266.6	1257.6	1264.3	1259.8	1262.1	1255.3	1264.3	1268.8	1266.6
60°	1124.6	1138.1	1131.4	1133.6	1142.6	1138.1	1129.1	1135.9	1144.9	1147.1	1144.9
62.5°	1007.4	1023.2	1029.9	1025.4	1027.7	1023.2	1029.9	1020.9	1032.2	1036.7	1029.9
65°	901.5	919.5	924.0	924.0	924.0	919.5	926.3	928.5	933.0	933.0	928.5
67.5°	811.3	827.1	831.6	836.1	831.6	827.1	827.1	829.4	838.4	842.9	838.4
70°	730.2	746.0	748.2	748.2	750.5	755.0	746.0	750.5	757.2	759.5	757.2
72.5°	660.3	676.1	680.6	678.4	680.6	682.9	682.9	678.4	685.1	689.6	689.6
75°	604.0	613.0	617.5	617.5	619.8	622.0	622.0	619.8	624.3	626.5	628.8
77.5°	552.2	558.9	565.7	565.7	567.9	565.7	570.2	570.2	572.4	574.7	576.9
80°	500.3	509.3	513.8	516.1	520.6	522.9	522.9	522.9	525.1	527.4	527.4
82.5°	459.8	466.5	473.3	480.0	480.0	482.3	482.3	482.3	484.5	484.5	486.8
85°	419.2	428.2	435.0	439.5	441.7	444.0	444.0	446.2	446.2	446.2	448.5
87.5°	383.1	394.4	398.9	403.4	405.7	410.2	410.2	410.2	412.4	412.4	412.4
90°	358.3	369.6	374.1	378.6	380.9	383.1	383.1	385.4	385.4	387.6	387.6
92.5°	329.0	340.3	349.3	349.3	351.6	356.1	353.8	353.8	356.1	358.3	358.3
95°	306.5	315.5	322.3	324.5	326.8	326.8	326.8	329.0	326.8	329.0	329.0
97.5°	279.5	288.5	295.2	299.7	302.0	302.0	302.0	304.2	302.0	304.2	304.2
100°	256.9	265.9	272.7	275.0	279.5	279.5	279.5	279.5	279.5	279.5	281.7
102.5°	238.9	247.9	252.4	254.7	256.9	259.2	259.2	259.2	259.2	261.4	261.4
105°	220.9	229.9	234.4	236.6	238.9	241.1	241.1	241.1	243.4	243.4	241.1
107.5°	205.1	211.8	216.4	220.9	223.1	223.1	225.4	225.4	225.4	225.4	225.4
110°	189.3	196.1	202.8	207.3	207.3	209.6	209.6	211.8	211.8	209.6	211.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.5	182.5	187.1	191.6	193.8	196.1	196.1	196.1	196.1	196.1	196.1
115°	160.0	169.0	173.5	178.0	180.3	182.5	182.5	182.5	182.5	182.5	182.5
117.5°	148.7	157.8	162.3	164.5	166.8	169.0	171.3	171.3	171.3	171.3	169.0
120°	137.5	144.2	148.7	153.3	155.5	157.8	157.8	157.8	157.8	157.8	157.8
122.5°	126.2	133.0	137.5	142.0	144.2	146.5	146.5	146.5	146.5	146.5	146.5
125°	114.9	121.7	126.2	130.7	133.0	135.2	135.2	135.2	135.2	135.2	135.2
127.5°	103.7	110.4	117.2	119.4	121.7	124.0	124.0	124.0	126.2	124.0	124.0
130°	92.4	99.2	105.9	108.2	110.4	112.7	114.9	114.9	114.9	114.9	112.7
132.5°	83.4	90.1	94.7	96.9	101.4	101.4	103.7	103.7	103.7	103.7	101.4
135°	76.6	81.1	85.6	87.9	92.4	92.4	92.4	94.7	94.7	92.4	90.1
137.5°	67.6	72.1	76.6	78.9	81.1	83.4	83.4	85.6	83.4	83.4	83.4
140°	63.1	65.4	69.9	72.1	74.4	74.4	74.4	76.6	76.6	74.4	74.4
142.5°	54.1	58.6	63.1	65.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6
145°	45.1	51.8	54.1	58.6	58.6	60.8	60.8	60.8	60.8	60.8	58.6
147.5°	38.3	42.8	49.6	51.8	51.8	54.1	54.1	54.1	54.1	54.1	51.8
150°	29.3	33.8	40.6	45.1	45.1	47.3	47.3	47.3	47.3	45.1	45.1
152.5°	24.8	29.3	31.6	36.1	38.3	38.3	38.3	40.6	38.3	38.3	38.3
155°	22.5	24.8	27.0	29.3	31.6	33.8	33.8	33.8	33.8	31.6	31.6
157.5°	18.0	20.3	22.5	24.8	27.0	29.3	29.3	29.3	29.3	29.3	27.0
160°	13.5	15.8	18.0	18.0	20.3	22.5	24.8	22.5	22.5	22.5	22.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4088.2	4086.0	4092.7	4081.4	4047.6	4056.7	4052.2	4072.4	4076.9	4081.4	4101.7
5°	4088.2	4086.0	4090.5	4081.4	4045.4	4052.2	4047.6	4067.9	4072.4	4074.7	4095.0
7.5°	4079.2	4076.9	4083.7	4072.4	4034.1	4043.1	4036.4	4056.7	4058.9	4061.2	4079.2
10°	4061.2	4058.9	4063.4	4054.4	4016.1	4025.1	4016.1	4036.4	4036.4	4040.9	4054.4
12.5°	4034.1	4029.6	4038.6	4027.4	3984.5	3995.8	3991.3	4004.8	4007.1	4009.3	4022.9
15°	3995.8	3991.3	3998.1	3991.3	3953.0	3955.2	3948.5	3968.8	3971.0	3966.5	3980.0
17.5°	3939.5	3935.0	3948.5	3944.0	3905.7	3914.7	3912.4	3916.9	3923.7	3912.4	3930.5
20°	3869.6	3874.1	3878.6	3880.9	3851.6	3851.6	3849.3	3858.3	3865.1	3856.1	3869.6
22.5°	3765.9	3777.2	3790.7	3795.2	3774.9	3772.7	3786.2	3781.7	3788.5	3784.0	3793.0
25°	3635.2	3657.8	3671.3	3684.8	3673.5	3678.0	3698.3	3702.8	3702.8	3700.6	3709.6
27.5°	3473.0	3502.2	3527.0	3556.3	3545.1	3554.1	3587.9	3592.4	3601.4	3592.4	3610.4
30°	3279.1	3306.2	3353.5	3396.3	3400.8	3414.4	3461.7	3466.2	3491.0	3482.0	3488.7
32.5°	3085.3	3098.8	3152.9	3195.7	3222.8	3256.6	3308.4	3317.4	3351.3	3358.0	3358.0
35°	2841.9	2880.2	2929.8	2990.7	3024.5	3060.5	3130.4	3143.9	3193.5	3209.3	3227.3
37.5°	2636.8	2672.9	2704.4	2767.5	2828.4	2869.0	2925.3	2959.1	3010.9	3040.2	3062.8
40°	2418.2	2447.5	2481.3	2544.4	2596.3	2657.1	2713.5	2754.0	2819.4	2853.2	2882.5
42.5°	2210.9	2233.4	2269.5	2314.5	2368.6	2436.2	2490.3	2537.7	2607.5	2654.9	2688.7
45°	2026.1	2039.6	2071.1	2105.0	2152.3	2222.1	2274.0	2334.8	2391.2	2440.8	2481.3
47.5°	1852.5	1870.6	1886.3	1908.9	1951.7	1994.5	2055.4	2114.0	2170.3	2224.4	2265.0
50°	1692.5	1692.5	1717.3	1733.1	1762.4	1800.7	1848.0	1888.6	1958.5	1996.8	2048.6
52.5°	1537.0	1546.0	1559.6	1568.6	1591.1	1615.9	1654.2	1688.0	1746.6	1782.7	1832.3
55°	1399.5	1408.6	1415.3	1419.8	1433.4	1462.7	1476.2	1503.2	1543.8	1573.1	1615.9
57.5°	1268.8	1273.3	1280.1	1282.4	1284.6	1302.6	1313.9	1320.7	1361.2	1390.5	1426.6
60°	1149.4	1149.4	1156.1	1153.9	1151.6	1160.7	1158.4	1165.2	1190.0	1208.0	1223.8
62.5°	1036.7	1036.7	1039.0	1034.4	1032.2	1032.2	1023.2	1029.9	1036.7	1039.0	1050.2
65°	933.0	944.3	935.3	937.5	924.0	919.5	915.0	901.5	899.2	890.2	894.7
67.5°	840.6	849.6	840.6	840.6	829.4	820.3	809.1	786.5	779.8	761.8	757.2
70°	766.3	759.5	764.0	757.2	743.7	732.5	716.7	698.6	676.1	653.6	637.8
72.5°	694.1	694.1	689.6	682.9	676.1	653.6	635.5	615.3	588.2	558.9	536.4
75°	624.3	626.5	626.5	619.8	608.5	588.2	567.9	538.6	509.3	475.5	446.2
77.5°	574.7	574.7	574.7	563.4	552.2	534.1	509.3	477.8	446.2	405.7	371.9
80°	527.4	525.1	525.1	511.6	500.3	480.0	455.2	423.7	389.9	347.1	308.8
82.5°	489.1	486.8	482.3	471.0	455.2	435.0	410.2	376.4	340.3	302.0	254.7
85°	448.5	446.2	441.7	430.5	414.7	396.7	369.6	335.8	299.7	256.9	211.8
87.5°	412.4	410.2	403.4	396.7	378.6	358.3	331.3	299.7	261.4	220.9	175.8
90°	387.6	383.1	378.6	369.6	353.8	331.3	304.2	270.4	232.1	191.6	146.5
92.5°	358.3	356.1	349.3	340.3	326.8	304.2	277.2	245.7	207.3	169.0	126.2
95°	329.0	326.8	322.3	313.3	299.7	279.5	254.7	223.1	187.1	148.7	110.4
97.5°	302.0	302.0	295.2	288.5	272.7	256.9	232.1	202.8	169.0	135.2	99.2
100°	279.5	279.5	272.7	263.7	252.4	236.6	211.8	184.8	153.3	121.7	85.6
102.5°	259.2	256.9	252.4	243.4	232.1	216.4	193.8	169.0	139.7	108.2	76.6
105°	241.1	238.9	234.4	225.4	216.4	198.3	180.3	155.5	126.2	96.9	67.6
107.5°	223.1	220.9	218.6	209.6	198.3	182.5	164.5	139.7	114.9	87.9	60.8
110°	207.3	205.1	200.6	191.6	180.3	166.8	148.7	128.5	103.7	78.9	54.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	193.8	191.6	187.1	178.0	169.0	153.3	137.5	114.9	94.7	72.1	47.3
115°	180.3	178.0	173.5	164.5	153.3	139.7	124.0	105.9	83.4	63.1	42.8
117.5°	166.8	164.5	160.0	153.3	142.0	128.5	112.7	94.7	74.4	58.6	38.3
120°	155.5	151.0	146.5	139.7	128.5	117.2	101.4	85.6	67.6	51.8	33.8
122.5°	144.2	139.7	135.2	128.5	117.2	105.9	90.1	76.6	63.1	47.3	31.6
125°	130.7	128.5	124.0	117.2	105.9	94.7	83.4	69.9	56.3	42.8	27.0
127.5°	119.4	117.2	112.7	103.7	94.7	85.6	74.4	63.1	49.6	36.1	24.8
130°	110.4	105.9	101.4	94.7	87.9	78.9	67.6	56.3	45.1	31.6	22.5
132.5°	99.2	94.7	90.1	85.6	78.9	69.9	60.8	49.6	40.6	29.3	20.3
135°	90.1	85.6	81.1	76.6	69.9	63.1	54.1	45.1	36.1	27.0	18.0
137.5°	78.9	76.6	74.4	69.9	63.1	56.3	49.6	38.3	31.6	24.8	15.8
140°	72.1	69.9	67.6	60.8	56.3	49.6	42.8	33.8	27.0	20.3	13.5
142.5°	65.4	63.1	58.6	54.1	49.6	45.1	36.1	31.6	24.8	18.0	13.5
145°	56.3	54.1	51.8	47.3	42.8	36.1	31.6	27.0	22.5	15.8	11.3
147.5°	51.8	49.6	45.1	40.6	36.1	31.6	29.3	24.8	18.0	13.5	9.0
150°	42.8	40.6	38.3	33.8	31.6	29.3	24.8	20.3	15.8	11.3	9.0
152.5°	36.1	33.8	31.6	31.6	27.0	24.8	20.3	18.0	13.5	11.3	6.8
155°	31.6	31.6	29.3	27.0	22.5	20.3	18.0	13.5	11.3	9.0	6.8
157.5°	27.0	24.8	22.5	22.5	20.3	18.0	13.5	11.3	9.0	9.0	6.8
160°	22.5	20.3	20.3	18.0	15.8	13.5	11.3	11.3	9.0	6.8	6.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4104.0	4079.2	4101.7	4131.0	4131.0	4126.5	4122.0	4131.0	4153.6	4144.6	4117.5
5°	4097.2	4072.4	4092.7	4122.0	4122.0	4115.3	4110.7	4117.5	4142.3	4131.0	4106.2
7.5°	4083.7	4061.2	4074.7	4101.7	4101.7	4095.0	4090.5	4099.5	4119.8	4108.5	4081.4
10°	4058.9	4034.1	4049.9	4074.7	4072.4	4067.9	4061.2	4072.4	4090.5	4074.7	4043.1
12.5°	4027.4	4002.6	4016.1	4038.6	4036.4	4027.4	4022.9	4029.6	4045.4	4036.4	4002.6
15°	3984.5	3959.7	3971.0	3993.6	3986.8	3980.0	3971.0	3973.3	3993.6	3977.8	3941.7
17.5°	3932.7	3905.7	3914.7	3935.0	3928.2	3921.4	3910.2	3912.4	3935.0	3912.4	3874.1
20°	3869.6	3840.3	3847.1	3871.9	3860.6	3849.3	3838.1	3838.1	3860.6	3835.8	3793.0
22.5°	3802.0	3772.7	3777.2	3795.2	3786.2	3765.9	3754.7	3761.4	3772.7	3741.1	3696.1
25°	3718.6	3680.3	3687.1	3705.1	3698.3	3671.3	3660.0	3664.5	3660.0	3635.2	3587.9
27.5°	3621.7	3581.1	3585.6	3596.9	3587.9	3563.1	3549.6	3551.8	3542.8	3511.3	3457.2
30°	3500.0	3479.7	3477.5	3484.2	3470.7	3445.9	3430.1	3425.6	3423.4	3378.3	3312.9
32.5°	3376.0	3358.0	3346.7	3355.8	3340.0	3315.2	3288.1	3288.1	3265.6	3222.8	3166.4
35°	3249.8	3220.5	3209.3	3216.0	3198.0	3166.4	3143.9	3132.6	3098.8	3044.7	2983.9
37.5°	3087.6	3067.3	3053.8	3060.5	3040.2	3017.7	2974.9	2963.6	2927.6	2853.2	2776.6
40°	2911.8	2896.0	2882.5	2889.2	2866.7	2832.9	2794.6	2776.6	2736.0	2652.6	2591.8
42.5°	2722.5	2715.7	2699.9	2724.7	2679.6	2645.8	2607.5	2578.2	2537.7	2447.5	2377.7
45°	2521.9	2537.7	2501.6	2508.4	2479.1	2449.8	2409.2	2366.4	2325.8	2240.2	2161.3
47.5°	2310.0	2321.3	2296.5	2301.0	2269.5	2242.4	2206.4	2152.3	2107.2	2032.8	1963.0
50°	2091.4	2086.9	2086.9	2082.4	2057.6	2023.8	1987.8	1938.2	1893.1	1825.5	1766.9
52.5°	1859.3	1868.3	1872.8	1884.1	1852.5	1832.3	1775.9	1733.1	1699.3	1629.4	1579.8
55°	1636.2	1667.7	1658.7	1663.2	1627.2	1611.4	1566.3	1532.5	1482.9	1442.4	1410.8
57.5°	1433.4	1440.1	1444.6	1451.4	1435.6	1404.1	1368.0	1341.0	1302.6	1268.8	1246.3
60°	1237.3	1237.3	1239.5	1250.8	1235.0	1208.0	1180.9	1160.7	1133.6	1113.3	1099.8
62.5°	1052.5	1068.3	1070.5	1061.5	1041.2	1027.7	1009.7	998.4	980.4	973.6	969.1
65°	881.2	881.2	881.2	885.7	874.4	865.4	854.2	851.9	858.7	849.6	854.2
67.5°	737.0	730.2	725.7	727.9	723.4	718.9	716.7	723.4	737.0	737.0	748.2
70°	613.0	599.5	590.5	590.5	590.5	592.7	599.5	613.0	635.5	644.6	660.3
72.5°	511.6	482.3	468.8	468.8	471.0	480.0	500.3	525.1	545.4	563.4	583.7
75°	414.7	385.4	365.1	362.8	367.4	380.9	410.2	432.7	466.5	491.3	516.1
77.5°	335.8	299.7	275.0	272.7	279.5	299.7	335.8	365.1	403.4	430.5	457.5
80°	268.2	227.6	207.3	193.8	205.1	229.9	270.4	306.5	342.6	378.6	412.4
82.5°	214.1	175.8	144.2	130.7	144.2	178.0	216.4	259.2	295.2	333.5	367.4
85°	169.0	128.5	92.4	78.9	94.7	130.7	173.5	216.4	256.9	295.2	329.0
87.5°	133.0	92.4	56.3	38.3	58.6	96.9	137.5	180.3	223.1	261.4	295.2
90°	103.7	65.4	31.6	4.5	33.8	69.9	110.4	151.0	193.8	232.1	265.9
92.5°	87.9	49.6	18.0	0.0	20.3	51.8	90.1	130.7	169.0	207.3	241.1
95°	74.4	40.6	13.5	0.0	13.5	40.6	74.4	110.4	148.7	187.1	220.9
97.5°	63.1	31.6	9.0	0.0	9.0	31.6	60.8	96.9	130.7	166.8	198.3
100°	54.1	27.0	6.8	0.0	6.8	24.8	51.8	83.4	117.2	151.0	180.3
102.5°	47.3	22.5	4.5	0.0	4.5	20.3	42.8	72.1	101.4	133.0	162.3
105°	40.6	18.0	4.5	0.0	2.3	15.8	36.1	63.1	90.1	119.4	146.5
107.5°	36.1	15.8	4.5	0.0	2.3	13.5	31.6	54.1	81.1	105.9	130.7
110°	31.6	13.5	4.5	0.0	2.3	9.0	27.0	47.3	69.9	94.7	119.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.0	11.3	2.3	0.0	0.0	6.8	22.5	40.6	60.8	85.6	105.9
115°	24.8	11.3	2.3	0.0	0.0	4.5	18.0	36.1	54.1	76.6	94.7
117.5°	22.5	9.0	2.3	0.0	2.3	4.5	15.8	31.6	47.3	65.4	85.6
120°	20.3	9.0	2.3	0.0	2.3	2.3	11.3	27.0	40.6	58.6	74.4
122.5°	18.0	9.0	2.3	0.0	2.3	2.3	9.0	22.5	36.1	51.8	65.4
125°	15.8	6.8	4.5	2.3	2.3	2.3	6.8	18.0	31.6	42.8	58.6
127.5°	15.8	6.8	4.5	2.3	2.3	2.3	4.5	15.8	24.8	38.3	51.8
130°	13.5	6.8	4.5	2.3	2.3	2.3	2.3	11.3	22.5	31.6	42.8
132.5°	11.3	6.8	4.5	2.3	2.3	2.3	2.3	6.8	15.8	27.0	36.1
135°	11.3	6.8	4.5	2.3	2.3	2.3	2.3	4.5	11.3	20.3	29.3
137.5°	9.0	4.5	4.5	2.3	2.3	2.3	2.3	2.3	9.0	15.8	22.5
140°	9.0	4.5	4.5	2.3	2.3	2.3	2.3	2.3	6.8	11.3	18.0
142.5°	6.8	4.5	4.5	2.3	2.3	2.3	2.3	2.3	4.5	9.0	13.5
145°	6.8	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	4.5	9.0
147.5°	6.8	6.8	4.5	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8
150°	6.8	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5
152.5°	6.8	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5
155°	6.8	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5
157.5°	6.8	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5
160°	6.8	4.5	4.5	2.3	4.5	2.3	4.5	4.5	4.5	4.5	4.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4108.5	4065.7	4088.2	4081.4	4090.5	4108.5	4106.2	4101.7	4101.7	4095.0	4086.0
5°	4095.0	4054.4	4074.7	4063.4	4074.7	4090.5	4088.2	4081.4	4086.0	4074.7	4063.4
7.5°	4067.9	4031.9	4049.9	4040.9	4049.9	4065.7	4058.9	4056.7	4061.2	4043.1	4036.4
10°	4036.4	3995.8	4016.1	4004.8	4016.1	4027.4	4022.9	4013.8	4022.9	4004.8	3998.1
12.5°	3986.8	3953.0	3966.5	3962.0	3968.8	3980.0	3971.0	3964.3	3968.8	3953.0	3939.5
15°	3932.7	3898.9	3910.2	3903.4	3907.9	3921.4	3905.7	3903.4	3898.9	3883.1	3878.6
17.5°	3862.8	3831.3	3842.6	3831.3	3838.1	3833.5	3831.3	3820.0	3820.0	3802.0	3788.5
20°	3777.2	3750.2	3743.4	3734.4	3743.4	3734.4	3720.9	3711.8	3709.6	3691.6	3680.3
22.5°	3678.0	3646.5	3651.0	3626.2	3628.5	3614.9	3592.4	3583.4	3574.4	3554.1	3538.3
25°	3558.6	3527.0	3504.5	3488.7	3468.4	3466.2	3436.9	3414.4	3412.1	3387.3	3385.1
27.5°	3423.4	3387.3	3369.3	3331.0	3306.2	3285.9	3261.1	3238.6	3227.3	3200.3	3182.2
30°	3267.9	3227.3	3182.2	3155.2	3116.9	3101.1	3058.3	3031.2	3022.2	2992.9	2979.4
32.5°	3092.1	3049.3	3013.2	2961.4	2918.5	2896.0	2853.2	2826.1	2814.9	2783.3	2765.3
35°	2900.5	2853.2	2810.4	2760.8	2727.0	2688.7	2636.8	2609.8	2585.0	2573.7	2560.2
37.5°	2699.9	2648.1	2598.5	2548.9	2519.6	2474.6	2429.5	2411.5	2382.2	2370.9	2357.4
40°	2492.6	2440.8	2393.4	2346.1	2312.3	2271.7	2231.2	2224.4	2192.8	2181.6	2172.6
42.5°	2287.5	2233.4	2179.3	2145.5	2120.7	2080.2	2053.1	2046.4	2019.3	2012.6	2012.6
45°	2102.7	2035.1	1990.0	1960.7	1940.4	1906.6	1884.1	1879.6	1857.0	1852.5	1852.5
47.5°	1904.4	1841.3	1807.5	1789.4	1771.4	1746.6	1733.1	1733.1	1710.6	1706.1	1703.8
50°	1719.6	1661.0	1636.2	1618.2	1615.9	1597.9	1586.6	1582.1	1582.1	1566.3	1568.6
52.5°	1543.8	1514.5	1494.2	1482.9	1469.4	1458.1	1449.1	1449.1	1442.4	1431.1	1435.6
55°	1381.5	1347.7	1350.0	1341.0	1334.2	1327.4	1329.7	1316.2	1313.9	1304.9	1311.7
57.5°	1219.3	1219.3	1214.7	1208.0	1196.7	1201.2	1201.2	1201.2	1190.0	1183.2	1190.0
60°	1081.8	1088.5	1077.3	1084.0	1079.5	1081.8	1077.3	1077.3	1070.5	1068.3	1070.5
62.5°	960.1	971.3	966.8	975.9	971.3	973.6	978.1	969.1	964.6	960.1	964.6
65°	851.9	865.4	863.2	869.9	872.2	874.4	876.7	872.2	867.7	863.2	860.9
67.5°	757.2	770.8	779.8	782.0	784.3	791.0	788.8	784.3	779.8	773.0	770.8
70°	671.6	689.6	700.9	705.4	714.4	709.9	709.9	707.7	703.2	696.4	694.1
72.5°	599.5	619.8	631.0	635.5	644.6	644.6	642.3	640.1	635.5	628.8	626.5
75°	536.4	554.4	570.2	579.2	586.0	586.0	583.7	581.5	576.9	572.4	570.2
77.5°	486.8	502.6	516.1	527.4	531.9	534.1	531.9	527.4	527.4	525.1	522.9
80°	437.2	455.2	468.8	480.0	486.8	486.8	484.5	486.8	482.3	480.0	477.8
82.5°	394.4	414.7	430.5	441.7	446.2	448.5	446.2	448.5	444.0	444.0	444.0
85°	356.1	376.4	394.4	403.4	410.2	412.4	412.4	412.4	410.2	410.2	410.2
87.5°	324.5	344.8	362.8	371.9	378.6	380.9	380.9	383.1	378.6	378.6	378.6
90°	295.2	315.5	333.5	342.6	349.3	353.8	353.8	356.1	353.8	351.6	351.6
92.5°	268.2	290.7	308.8	317.8	324.5	331.3	331.3	333.5	329.0	329.0	329.0
95°	245.7	268.2	284.0	295.2	302.0	306.5	308.8	308.8	306.5	306.5	306.5
97.5°	225.4	245.7	261.4	272.7	279.5	281.7	284.0	286.2	284.0	284.0	284.0
100°	205.1	225.4	241.1	250.2	259.2	261.4	263.7	265.9	265.9	263.7	263.7
102.5°	187.1	207.3	220.9	232.1	238.9	243.4	245.7	245.7	245.7	245.7	245.7
105°	169.0	189.3	202.8	214.1	220.9	225.4	227.6	229.9	229.9	227.6	227.6
107.5°	153.3	171.3	187.1	196.1	205.1	209.6	211.8	211.8	214.1	211.8	211.8
110°	137.5	157.8	171.3	180.3	189.3	193.8	196.1	198.3	198.3	198.3	198.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	126.2	142.0	155.5	164.5	173.5	178.0	180.3	182.5	184.8	182.5	182.5
115°	112.7	128.5	142.0	151.0	157.8	162.3	166.8	169.0	169.0	171.3	169.0
117.5°	101.4	114.9	128.5	137.5	144.2	151.0	153.3	155.5	157.8	155.5	155.5
120°	90.1	103.7	114.9	124.0	130.7	137.5	139.7	142.0	144.2	142.0	142.0
122.5°	81.1	92.4	103.7	112.7	119.4	124.0	128.5	128.5	130.7	130.7	130.7
125°	72.1	83.4	92.4	101.4	108.2	112.7	114.9	117.2	117.2	119.4	119.4
127.5°	63.1	72.1	83.4	90.1	96.9	101.4	103.7	105.9	105.9	108.2	108.2
130°	54.1	63.1	72.1	78.9	85.6	90.1	92.4	94.7	96.9	96.9	96.9
132.5°	47.3	56.3	63.1	69.9	74.4	78.9	83.4	85.6	85.6	85.6	85.6
135°	38.3	47.3	54.1	60.8	65.4	69.9	72.1	76.6	76.6	76.6	76.6
137.5°	31.6	40.6	47.3	51.8	56.3	60.8	63.1	65.4	67.6	67.6	67.6
140°	24.8	31.6	38.3	45.1	49.6	51.8	56.3	56.3	58.6	58.6	58.6
142.5°	18.0	24.8	29.3	36.1	40.6	45.1	47.3	49.6	49.6	49.6	49.6
145°	13.5	18.0	22.5	27.0	33.8	36.1	38.3	40.6	42.8	42.8	42.8
147.5°	9.0	13.5	15.8	20.3	24.8	29.3	31.6	33.8	36.1	36.1	36.1
150°	6.8	9.0	13.5	15.8	18.0	22.5	27.0	27.0	29.3	29.3	27.0
152.5°	4.5	6.8	9.0	11.3	13.5	15.8	20.3	20.3	22.5	22.5	22.5
155°	4.5	4.5	4.5	6.8	9.0	11.3	13.5	15.8	15.8	15.8	15.8
157.5°	4.5	4.5	4.5	4.5	4.5	6.8	9.0	11.3	11.3	11.3	11.3
160°	4.5	4.5	2.3	2.3	4.5	4.5	4.5	4.5	6.8	6.8	6.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4092.7	4097.2	4097.2	4092.7	4090.5	4099.5	4088.2	4045.4	4058.9	4063.4	4076.9
5°	4072.4	4076.9	4076.9	4076.9	4072.4	4081.4	4070.2	4027.4	4043.1	4049.9	4058.9
7.5°	4043.1	4045.4	4049.9	4047.6	4043.1	4056.7	4045.4	4002.6	4013.8	4025.1	4036.4
10°	4004.8	4004.8	4007.1	4011.6	4007.1	4018.3	4007.1	3968.8	3980.0	3986.8	4000.3
12.5°	3953.0	3957.5	3959.7	3957.5	3955.2	3964.3	3959.7	3923.7	3928.2	3941.7	3955.2
15°	3883.1	3883.1	3894.4	3889.9	3889.9	3898.9	3903.4	3862.8	3869.6	3889.9	3903.4
17.5°	3797.5	3799.7	3808.8	3813.3	3811.0	3826.8	3829.0	3797.5	3795.2	3820.0	3833.5
20°	3687.1	3691.6	3702.8	3711.8	3711.8	3729.9	3736.6	3716.4	3718.6	3745.6	3750.2
22.5°	3551.8	3551.8	3572.1	3585.6	3596.9	3608.2	3628.5	3610.4	3610.4	3646.5	3666.8
25°	3385.1	3400.8	3407.6	3434.6	3450.4	3482.0	3500.0	3502.2	3504.5	3538.3	3551.8
27.5°	3200.3	3204.8	3225.0	3256.6	3274.6	3303.9	3337.7	3344.5	3355.8	3400.8	3421.1
30°	2990.7	3004.2	3013.2	3058.3	3083.1	3121.4	3164.2	3180.0	3189.0	3249.8	3274.6
32.5°	2776.6	2781.1	2819.4	2844.2	2873.5	2914.0	2963.6	2992.9	3010.9	3074.0	3110.1
35°	2562.5	2571.5	2603.0	2634.6	2663.9	2704.4	2756.3	2796.8	2828.4	2884.7	2932.1
37.5°	2366.4	2388.9	2395.7	2427.2	2449.8	2490.3	2526.4	2585.0	2616.5	2675.1	2736.0
40°	2190.6	2197.4	2201.9	2233.4	2249.2	2287.5	2339.3	2377.7	2420.5	2463.3	2535.4
42.5°	2017.1	2021.6	2028.3	2046.4	2064.4	2091.4	2129.7	2168.1	2213.1	2276.2	2323.6
45°	1857.0	1861.6	1866.1	1877.3	1893.1	1917.9	1942.7	1969.7	2014.8	2068.9	2118.5
47.5°	1708.3	1717.3	1717.3	1719.6	1730.8	1751.1	1769.2	1803.0	1827.8	1857.0	1913.4
50°	1566.3	1573.1	1575.3	1575.3	1582.1	1595.6	1600.1	1622.7	1645.2	1672.2	1712.8
52.5°	1433.4	1433.4	1431.1	1440.1	1440.1	1449.1	1451.4	1464.9	1480.7	1510.0	1528.0
55°	1307.1	1307.1	1313.9	1309.4	1309.4	1313.9	1311.7	1313.9	1327.4	1345.5	1361.2
57.5°	1185.4	1183.2	1190.0	1185.4	1183.2	1187.7	1192.2	1183.2	1185.4	1203.5	1203.5
60°	1063.7	1066.0	1072.8	1068.3	1068.3	1068.3	1063.7	1059.2	1054.7	1066.0	1070.5
62.5°	966.8	960.1	966.8	960.1	964.6	962.3	957.8	948.8	951.1	946.6	942.0
65°	865.4	865.4	867.7	860.9	865.4	865.4	858.7	856.4	842.9	838.4	827.1
67.5°	777.5	777.5	779.8	775.3	775.3	777.5	770.8	764.0	750.5	743.7	727.9
70°	700.9	700.9	700.9	698.6	698.6	698.6	694.1	685.1	671.6	660.3	640.1
72.5°	631.0	633.3	631.0	631.0	637.8	631.0	624.3	615.3	604.0	581.5	563.4
75°	574.7	576.9	574.7	574.7	574.7	572.4	570.2	556.7	543.1	525.1	498.1
77.5°	525.1	525.1	527.4	525.1	525.1	522.9	516.1	504.8	489.1	473.3	441.7
80°	477.8	480.0	482.3	484.5	480.0	477.8	471.0	462.0	441.7	423.7	392.1
82.5°	444.0	441.7	444.0	446.2	441.7	439.5	432.7	421.4	405.7	380.9	349.3
85°	410.2	407.9	407.9	410.2	407.9	403.4	396.7	385.4	369.6	344.8	313.3
87.5°	376.4	378.6	380.9	378.6	376.4	371.9	365.1	353.8	335.8	315.5	281.7
90°	351.6	351.6	351.6	351.6	349.3	344.8	338.1	324.5	308.8	284.0	254.7
92.5°	329.0	329.0	329.0	329.0	326.8	320.0	313.3	302.0	284.0	259.2	232.1
95°	306.5	308.8	306.5	306.5	302.0	299.7	288.5	277.2	261.4	236.6	207.3
97.5°	281.7	284.0	281.7	281.7	279.5	275.0	268.2	254.7	238.9	216.4	189.3
100°	263.7	263.7	261.4	261.4	259.2	254.7	245.7	234.4	218.6	196.1	169.0
102.5°	243.4	245.7	243.4	243.4	238.9	234.4	227.6	216.4	200.6	178.0	153.3
105°	227.6	227.6	225.4	225.4	220.9	216.4	209.6	196.1	182.5	162.3	137.5
107.5°	211.8	211.8	209.6	209.6	205.1	200.6	191.6	180.3	166.8	146.5	124.0
110°	196.1	196.1	196.1	193.8	189.3	182.5	175.8	164.5	151.0	133.0	110.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.8	182.5	180.3	178.0	173.5	169.0	160.0	148.7	135.2	119.4	99.2
115°	169.0	169.0	166.8	164.5	160.0	153.3	146.5	137.5	124.0	105.9	87.9
117.5°	155.5	155.5	153.3	151.0	146.5	139.7	133.0	124.0	110.4	94.7	78.9
120°	142.0	142.0	139.7	137.5	133.0	126.2	121.7	110.4	99.2	83.4	69.9
122.5°	130.7	128.5	128.5	124.0	121.7	114.9	108.2	99.2	87.9	74.4	60.8
125°	117.2	117.2	114.9	112.7	110.4	103.7	96.9	87.9	76.6	65.4	54.1
127.5°	105.9	105.9	103.7	101.4	99.2	92.4	85.6	78.9	67.6	56.3	45.1
130°	94.7	94.7	92.4	90.1	87.9	81.1	76.6	67.6	58.6	49.6	38.3
132.5°	85.6	85.6	83.4	81.1	76.6	72.1	67.6	58.6	51.8	42.8	33.8
135°	76.6	74.4	74.4	72.1	67.6	63.1	58.6	51.8	42.8	36.1	27.0
137.5°	67.6	65.4	63.1	60.8	58.6	54.1	49.6	45.1	38.3	29.3	22.5
140°	58.6	56.3	56.3	54.1	49.6	47.3	42.8	36.1	31.6	24.8	18.0
142.5°	49.6	49.6	47.3	45.1	42.8	40.6	36.1	31.6	24.8	20.3	13.5
145°	42.8	40.6	40.6	38.3	36.1	31.6	29.3	24.8	20.3	15.8	11.3
147.5°	33.8	33.8	33.8	31.6	29.3	27.0	24.8	20.3	15.8	11.3	6.8
150°	27.0	27.0	27.0	24.8	22.5	20.3	18.0	15.8	11.3	6.8	4.5
152.5°	22.5	22.5	20.3	20.3	18.0	15.8	13.5	11.3	6.8	4.5	4.5
155°	15.8	15.8	15.8	13.5	13.5	11.3	9.0	6.8	4.5	4.5	4.5
157.5°	11.3	11.3	11.3	9.0	9.0	6.8	6.8	4.5	4.5	4.5	4.5
160°	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2	4097.2
2.5°	4070.2	4067.9	4086.0	4086.0	4065.7	4097.2	4131.0
5°	4056.7	4054.4	4072.4	4072.4	4054.4	4086.0	4122.0
7.5°	4029.6	4031.9	4049.9	4054.4	4031.9	4061.2	4099.5
10°	4000.3	3998.1	4018.3	4022.9	4004.8	4031.9	4067.9
12.5°	3953.0	3953.0	3973.3	3980.0	3962.0	3993.6	4027.4
15°	3903.4	3903.4	3916.9	3928.2	3912.4	3941.7	3975.5
17.5°	3840.3	3838.1	3851.6	3865.1	3849.3	3880.9	3916.9
20°	3759.2	3759.2	3774.9	3790.7	3779.5	3808.8	3849.3
22.5°	3673.5	3664.5	3691.6	3702.8	3696.1	3725.4	3765.9
25°	3565.4	3563.1	3590.1	3605.9	3596.9	3628.5	3664.5
27.5°	3448.2	3445.9	3473.0	3493.2	3488.7	3518.0	3558.6
30°	3306.2	3317.4	3342.2	3376.0	3364.8	3396.3	3439.1
32.5°	3157.4	3168.7	3198.0	3234.1	3236.3	3261.1	3303.9
35°	2979.4	3008.7	3029.0	3076.3	3085.3	3110.1	3155.2
37.5°	2792.3	2826.1	2869.0	2905.0	2923.0	2943.3	2995.2
40°	2582.7	2632.3	2679.6	2722.5	2745.0	2765.3	2814.9
42.5°	2393.4	2431.7	2476.8	2519.6	2560.2	2578.2	2630.1
45°	2179.3	2224.4	2265.0	2316.8	2357.4	2377.7	2429.5
47.5°	1969.7	2014.8	2068.9	2105.0	2147.8	2168.1	2217.6
50°	1769.2	1809.7	1854.8	1897.6	1933.7	1951.7	1994.5
52.5°	1570.8	1613.6	1656.5	1683.5	1721.8	1735.3	1771.4
55°	1395.0	1424.3	1462.7	1478.4	1516.7	1525.8	1550.5
57.5°	1226.0	1246.3	1259.8	1286.9	1313.9	1334.2	1363.5
60°	1072.8	1081.8	1090.8	1106.6	1129.1	1135.9	1147.1
62.5°	935.3	933.0	951.1	955.6	957.8	980.4	969.1
65°	813.6	815.8	800.1	793.3	802.3	809.1	804.6
67.5°	712.2	698.6	685.1	669.3	655.8	662.6	655.8
70°	613.0	601.7	579.2	556.7	547.6	534.1	527.4
72.5°	534.1	507.1	484.5	455.2	439.5	423.7	412.4
75°	473.3	435.0	403.4	371.9	349.3	326.8	322.3
77.5°	410.2	374.1	338.1	304.2	270.4	245.7	236.6
80°	360.6	326.8	284.0	243.4	207.3	175.8	164.5
82.5°	315.5	279.5	236.6	193.8	153.3	119.4	105.9
85°	277.2	238.9	196.1	153.3	112.7	76.6	58.6
87.5°	247.9	205.1	162.3	121.7	78.9	42.8	22.5
90°	220.9	180.3	139.7	96.9	56.3	22.5	0.0
92.5°	196.1	157.8	117.2	78.9	42.8	13.5	2.3
95°	173.5	139.7	99.2	63.1	31.6	9.0	2.3
97.5°	155.5	121.7	85.6	51.8	24.8	6.8	2.3
100°	139.7	105.9	74.4	42.8	20.3	4.5	2.3
102.5°	124.0	94.7	63.1	36.1	15.8	2.3	2.3
105°	110.4	83.4	54.1	31.6	13.5	2.3	2.3
107.5°	99.2	74.4	47.3	27.0	9.0	2.3	2.3
110°	87.9	63.1	40.6	22.5	6.8	2.3	2.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	78.9	56.3	36.1	18.0	4.5	2.3	2.3
115°	69.9	49.6	31.6	15.8	4.5	2.3	2.3
117.5°	60.8	42.8	27.0	11.3	2.3	2.3	2.3
120°	54.1	38.3	22.5	9.0	2.3	2.3	2.3
122.5°	47.3	31.6	18.0	6.8	2.3	2.3	2.3
125°	40.6	27.0	15.8	4.5	2.3	2.3	2.3
127.5°	33.8	22.5	11.3	4.5	2.3	2.3	2.3
130°	29.3	18.0	9.0	2.3	2.3	2.3	2.3
132.5°	24.8	13.5	6.8	2.3	2.3	2.3	2.3
135°	20.3	11.3	4.5	2.3	2.3	2.3	2.3
137.5°	15.8	9.0	4.5	2.3	2.3	2.3	2.3
140°	11.3	6.8	2.3	2.3	2.3	2.3	2.3
142.5°	9.0	4.5	2.3	2.3	2.3	2.3	2.3
145°	6.8	4.5	2.3	2.3	2.3	2.3	2.3
147.5°	4.5	4.5	4.5	4.5	2.3	2.3	2.3
150°	4.5	4.5	2.3	2.3	4.5	2.3	2.3
152.5°	4.5	2.3	2.3	2.3	4.5	2.3	2.3
155°	4.5	4.5	4.5	4.5	4.5	4.5	2.3
157.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
160°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)