

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-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

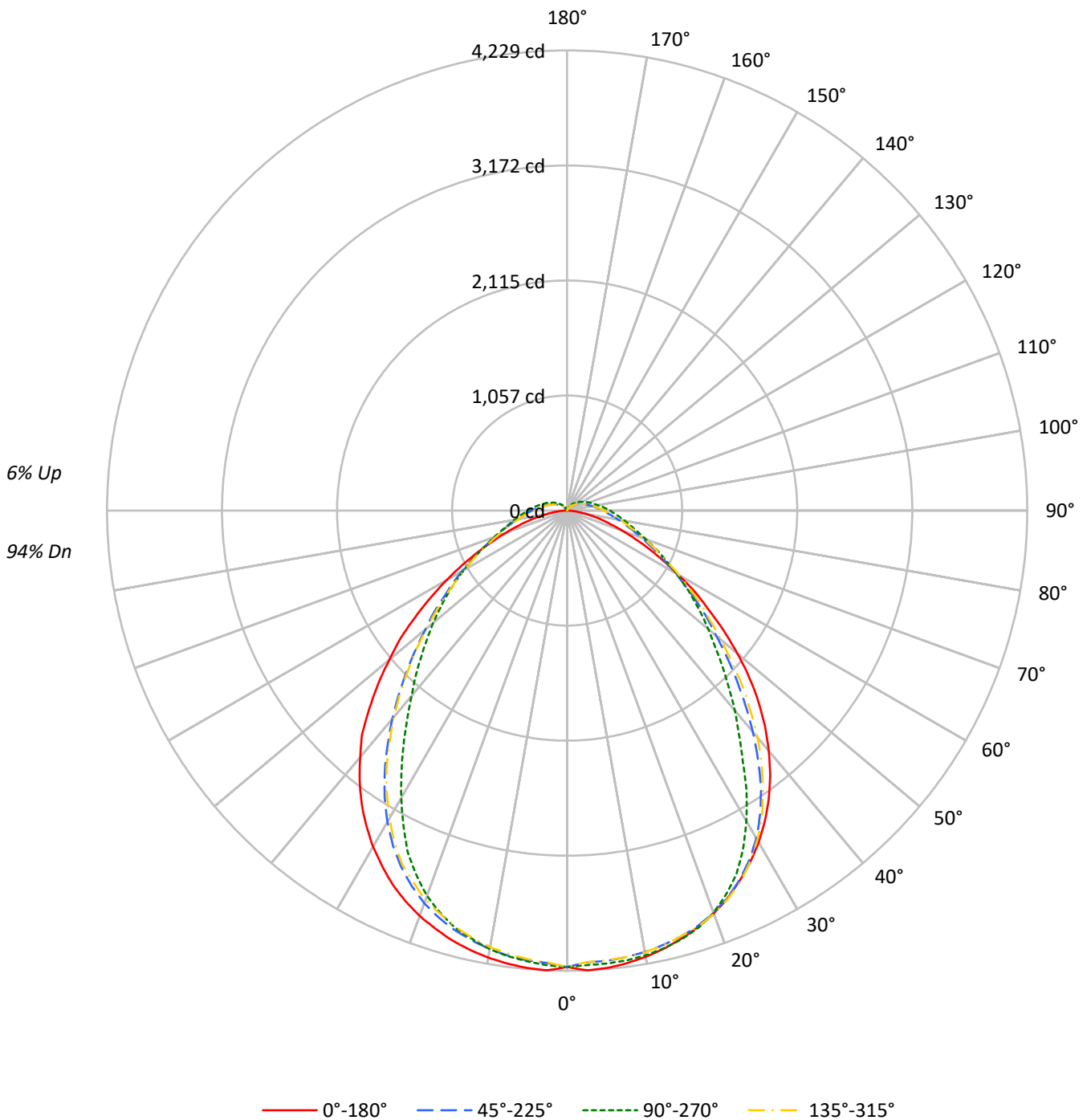
Lumens per Lamp: N/A
Luminaire Lumens: 10615.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	16948	16948	16948	16948
5°	17092	16408	17092	16335
10°	17039	15972	17068	15750
15°	16953	15495	17030	15091
20°	16848	14881	16947	14253
25°	16604	13971	16788	13148
30°	16279	12633	16493	11696
35°	15760	10994	16064	10237
40°	15003	9615	15399	8921
45°	13993	8358	14448	7879
50°	12600	7345	13155	6974
55°	10938	6486	11733	6158
60°	9239	5694	10075	5367
65°	7620	5035	8388	4668
70°	6116	4468	6847	4133
75°	4866	4126	5480	3795
80°	3599	3981	4241	3637
85°	2360	4003	3178	3679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.7	3.7
10°-20°	1140.2	10.7
20°-30°	1689.9	15.9
30°-40°	1877.4	17.7
40°-50°	1701.9	16.0
50°-60°	1318.8	12.4
60°-70°	895.5	8.4
70°-80°	569.7	5.4
80°-90°	364.2	3.4
90°-100°	245.6	2.3
100°-110°	168.2	1.6
110°-120°	112.2	1.1
120°-130°	69.8	0.7
130°-140°	38.6	0.4
140°-150°	18.1	0.2
150°-160°	6.6	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	3227.8	30.4
0°-40°	5105.2	48.1
0°-60°	8125.9	76.6
0°-90°	9955.4	93.8
90°-120°	526.0	5.0
90°-150°	652.5	6.1
90°-180°	660.0	6.2
0°-180°	10615.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4194	4194	4194	4194	4194	
5°	4220	4178	4220	4160	4220	401
15°	4070	4077	4088	3971	4070	1149
25°	3752	3682	3793	3465	3752	1728
35°	3230	2815	3292	2621	3230	2015
45°	2487	2012	2568	1896	2487	1910
55°	1587	1414	1703	1343	1587	1429
65°	824	951	907	881	824	826
75°	330	634	372	584	330	355
85°	60	457	81	420	60	72
90°	0	394	5	360	0	3
95°	2	337	0	314	2	2
105°	2	247	0	233	2	2
115°	2	187	0	173	2	2
125°	2	138	2	122	2	2
135°	2	97	2	78	2	2
145°	2	62	2	44	2	1
155°	2	35	2	16	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4229.0	4224.4	4219.8	4212.9	4219.8	4238.3	4226.7	4201.4	4196.7	4155.2	4173.7
5°	4219.8	4212.9	4208.3	4201.4	4210.6	4233.7	4222.1	4199.0	4192.1	4152.9	4173.7
7.5°	4196.7	4192.1	4185.2	4185.2	4194.4	4217.5	4208.3	4182.9	4178.3	4139.1	4162.1
10°	4164.4	4162.1	4157.5	4157.5	4166.7	4194.4	4182.9	4159.8	4155.2	4118.3	4143.7
12.5°	4122.9	4125.2	4118.3	4118.3	4132.1	4159.8	4150.6	4125.2	4120.6	4088.3	4113.7
15°	4069.8	4072.2	4067.5	4069.8	4083.7	4116.0	4104.5	4081.4	4076.8	4051.4	4072.2
17.5°	4009.9	4012.2	4012.2	4009.9	4026.0	4058.3	4049.1	4028.3	4021.4	4000.6	4026.0
20°	3940.6	3940.6	3940.6	3940.6	3959.1	3991.4	3979.9	3963.7	3949.9	3933.7	3954.5
22.5°	3855.3	3853.0	3855.3	3862.2	3880.7	3906.0	3899.1	3880.7	3859.9	3850.7	3866.8
25°	3751.5	3758.4	3760.7	3767.6	3790.7	3811.4	3804.5	3786.1	3753.8	3746.8	3751.5
27.5°	3643.0	3647.6	3654.6	3652.2	3684.5	3705.3	3691.5	3675.3	3629.2	3622.3	3617.6
30°	3520.7	3527.7	3532.3	3530.0	3555.3	3578.4	3564.6	3543.8	3481.5	3476.9	3440.0
32.5°	3382.3	3389.2	3393.8	3393.8	3430.8	3440.0	3414.6	3384.6	3317.7	3301.6	3269.3
35°	3230.0	3237.0	3239.3	3239.3	3276.2	3273.9	3241.6	3200.0	3126.2	3105.4	3050.1
37.5°	3066.2	3070.8	3073.1	3087.0	3103.1	3089.3	3047.8	2994.7	2939.3	2881.7	2821.7
40°	2881.7	2888.6	2893.2	2902.4	2918.6	2902.4	2842.4	2777.8	2717.8	2653.2	2593.3
42.5°	2692.5	2713.2	2708.6	2706.3	2715.5	2671.7	2625.6	2551.7	2491.7	2424.8	2364.8
45°	2487.1	2484.8	2496.4	2501.0	2498.7	2461.7	2397.1	2330.2	2270.3	2201.0	2150.3
47.5°	2270.3	2267.9	2277.2	2281.8	2267.9	2228.7	2178.0	2101.8	2051.1	1991.1	1951.9
50°	2041.8	2041.8	2055.7	2041.8	2034.9	1995.7	1954.2	1878.0	1838.8	1785.7	1762.7
52.5°	1813.4	1834.2	1820.4	1815.7	1808.8	1769.6	1737.3	1675.0	1642.7	1619.6	1591.9
55°	1587.3	1610.4	1601.2	1594.3	1591.9	1559.6	1529.7	1483.5	1462.7	1446.6	1430.4
57.5°	1395.8	1393.5	1388.9	1382.0	1384.3	1358.9	1328.9	1303.5	1294.3	1287.4	1292.0
60°	1174.3	1192.8	1185.9	1188.2	1190.5	1185.9	1160.5	1144.4	1146.7	1149.0	1155.9
62.5°	992.1	1008.2	1019.8	1010.5	1015.2	1022.1	1008.2	1003.6	1012.8	1022.1	1031.3
65°	823.7	839.8	851.3	849.0	862.9	876.7	874.4	879.0	899.8	911.3	922.9
67.5°	671.4	687.5	703.7	706.0	726.8	747.5	756.8	772.9	796.0	812.1	826.0
70°	539.9	553.7	572.2	583.7	611.4	639.1	655.2	687.5	701.4	724.5	733.7
72.5°	422.2	433.7	459.1	486.8	509.9	544.5	576.8	604.5	625.2	650.6	662.2
75°	329.9	334.5	362.2	394.5	426.8	466.0	500.7	530.6	558.3	583.7	602.2
77.5°	242.3	249.2	274.6	318.4	355.3	396.8	436.1	468.4	498.3	523.7	549.1
80°	168.4	182.3	210.0	253.8	295.3	341.5	378.4	415.3	447.6	473.0	498.3
82.5°	108.4	120.0	159.2	203.0	246.9	293.0	332.2	369.1	403.8	431.4	454.5
85°	60.0	76.1	115.4	161.5	205.3	251.5	293.0	329.9	364.5	389.9	413.0
87.5°	23.1	46.1	83.1	126.9	170.7	214.6	258.4	293.0	327.6	355.3	376.1
90°	0.0	27.7	62.3	106.1	150.0	193.8	235.3	272.2	304.5	329.9	353.0
92.5°	2.3	18.5	48.5	85.4	126.9	168.4	207.6	244.6	276.9	302.2	323.0
95°	2.3	13.8	39.2	73.8	110.7	150.0	186.9	221.5	251.5	276.9	297.6
97.5°	2.3	9.2	32.3	64.6	96.9	136.1	170.7	203.0	230.7	256.1	272.2
100°	2.3	9.2	27.7	55.4	87.7	122.3	154.6	186.9	212.3	233.0	251.5
102.5°	2.3	6.9	23.1	48.5	78.4	108.4	140.7	170.7	193.8	214.6	233.0
105°	2.3	6.9	20.8	41.5	69.2	99.2	126.9	154.6	180.0	198.4	214.6
107.5°	2.3	4.6	18.5	34.6	60.0	90.0	117.7	140.7	163.8	182.3	198.4
110°	2.3	4.6	16.2	32.3	53.1	80.8	106.1	129.2	150.0	168.4	182.3



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CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.3	4.6	13.8	30.0	48.5	71.5	96.9	117.7	138.4	154.6	168.4
115°	2.3	4.6	13.8	27.7	43.8	62.3	85.4	108.4	124.6	143.0	154.6
117.5°	2.3	4.6	11.5	23.1	41.5	57.7	78.4	96.9	115.4	131.5	143.0
120°	2.3	4.6	11.5	20.8	36.9	53.1	69.2	87.7	106.1	117.7	129.2
122.5°	2.3	4.6	9.2	20.8	32.3	48.5	62.3	78.4	94.6	108.4	120.0
125°	2.3	4.6	9.2	18.5	30.0	43.8	57.7	69.2	85.4	96.9	108.4
127.5°	2.3	4.6	9.2	16.2	27.7	39.2	53.1	64.6	76.1	87.7	96.9
130°	2.3	4.6	6.9	13.8	25.4	34.6	46.1	60.0	69.2	78.4	87.7
132.5°	2.3	4.6	6.9	13.8	20.8	30.0	41.5	53.1	62.3	71.5	78.4
135°	2.3	4.6	6.9	11.5	18.5	27.7	34.6	46.1	55.4	64.6	71.5
137.5°	2.3	4.6	6.9	11.5	16.2	23.1	30.0	39.2	48.5	55.4	64.6
140°	2.3	4.6	6.9	9.2	13.8	20.8	27.7	32.3	41.5	48.5	55.4
142.5°	2.3	4.6	6.9	9.2	13.8	18.5	23.1	27.7	34.6	41.5	48.5
145°	2.3	4.6	6.9	9.2	11.5	16.2	20.8	25.4	27.7	34.6	39.2
147.5°	2.3	4.6	6.9	9.2	9.2	13.8	18.5	20.8	25.4	27.7	32.3
150°	2.3	4.6	6.9	6.9	9.2	11.5	16.2	18.5	20.8	25.4	27.7
152.5°	2.3	4.6	6.9	6.9	9.2	11.5	13.8	16.2	18.5	20.8	23.1
155°	2.3	4.6	6.9	6.9	6.9	9.2	11.5	13.8	16.2	18.5	20.8
157.5°	4.6	4.6	4.6	6.9	6.9	9.2	9.2	11.5	13.8	13.8	16.2
160°	4.6	4.6	4.6	6.9	6.9	6.9	9.2	9.2	11.5	11.5	13.8
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4169.1	4176.0	4196.7	4196.7	4192.1	4187.5	4187.5	4180.6	4185.2	4194.4	4189.8
5°	4169.1	4176.0	4196.7	4196.7	4192.1	4187.5	4185.2	4178.3	4185.2	4194.4	4189.8
7.5°	4155.2	4164.4	4185.2	4185.2	4180.6	4178.3	4173.7	4169.1	4176.0	4185.2	4180.6
10°	4136.8	4146.0	4166.7	4166.7	4162.1	4162.1	4155.2	4150.6	4159.8	4166.7	4164.4
12.5°	4109.1	4120.6	4139.1	4136.8	4132.1	4134.4	4127.5	4118.3	4127.5	4134.4	4136.8
15°	4069.8	4083.7	4102.1	4097.5	4090.6	4095.2	4083.7	4076.8	4083.7	4097.5	4095.2
17.5°	4019.1	4028.3	4042.2	4042.2	4035.2	4030.6	4026.0	4019.1	4023.7	4032.9	4035.2
20°	3947.6	3959.1	3966.0	3959.1	3956.8	3949.9	3940.6	3933.7	3942.9	3956.8	3959.1
22.5°	3853.0	3855.3	3871.4	3855.3	3843.7	3841.4	3832.2	3818.4	3832.2	3843.7	3846.0
25°	3735.3	3746.8	3739.9	3712.2	3712.2	3693.8	3689.2	3682.2	3684.5	3705.3	3714.5
27.5°	3585.3	3590.0	3571.5	3548.4	3527.7	3516.1	3500.0	3502.3	3502.3	3530.0	3539.2
30°	3421.5	3396.2	3380.0	3343.1	3326.9	3299.2	3294.6	3294.6	3290.0	3303.9	3345.4
32.5°	3225.4	3190.8	3165.4	3130.8	3103.1	3075.5	3061.6	3068.5	3066.2	3100.8	3114.7
35°	3010.9	2990.1	2937.0	2893.2	2877.0	2835.5	2835.5	2814.7	2828.6	2867.8	2884.0
37.5°	2784.8	2752.5	2708.6	2660.2	2648.6	2616.3	2604.8	2593.3	2623.2	2630.2	2646.3
40°	2554.0	2524.0	2482.5	2436.4	2436.4	2397.1	2397.1	2397.1	2399.5	2413.3	2443.3
42.5°	2334.9	2302.6	2265.6	2233.3	2228.7	2198.7	2198.7	2196.4	2201.0	2212.6	2240.3
45°	2122.6	2097.2	2058.0	2041.8	2044.2	2011.8	2018.8	2011.8	2021.1	2032.6	2041.8
47.5°	1926.5	1910.3	1894.2	1871.1	1864.2	1861.9	1850.3	1841.1	1857.3	1857.3	1871.1
50°	1744.2	1735.0	1725.8	1711.9	1714.2	1705.0	1691.2	1691.2	1702.7	1705.0	1714.2
52.5°	1585.0	1573.5	1562.0	1564.3	1566.6	1562.0	1555.0	1548.1	1555.0	1559.6	1571.2
55°	1425.8	1416.6	1428.1	1423.5	1428.1	1423.5	1418.9	1414.3	1425.8	1418.9	1430.4
57.5°	1282.8	1292.0	1296.6	1287.4	1294.3	1289.7	1292.0	1285.1	1294.3	1298.9	1296.6
60°	1151.3	1165.1	1158.2	1160.5	1169.7	1165.1	1155.9	1162.8	1172.0	1174.3	1172.0
62.5°	1031.3	1047.5	1054.4	1049.8	1052.1	1047.5	1054.4	1045.1	1056.7	1061.3	1054.4
65°	922.9	941.3	945.9	945.9	945.9	941.3	948.2	950.6	955.2	955.2	950.6
67.5°	830.6	846.7	851.3	856.0	851.3	846.7	846.7	849.0	858.3	862.9	858.3
70°	747.5	763.7	766.0	766.0	768.3	772.9	763.7	768.3	775.2	777.5	775.2
72.5°	676.0	692.2	696.8	694.5	696.8	699.1	699.1	694.5	701.4	706.0	706.0
75°	618.3	627.5	632.2	632.2	634.5	636.8	636.8	634.5	639.1	641.4	643.7
77.5°	565.3	572.2	579.1	579.1	581.4	579.1	583.7	583.7	586.0	588.3	590.6
80°	512.2	521.4	526.0	528.3	533.0	535.3	535.3	535.3	537.6	539.9	539.9
82.5°	470.7	477.6	484.5	491.4	491.4	493.7	493.7	493.7	496.0	496.0	498.3
85°	429.1	438.4	445.3	449.9	452.2	454.5	454.5	456.8	456.8	456.8	459.1
87.5°	392.2	403.8	408.4	413.0	415.3	419.9	419.9	419.9	422.2	422.2	422.2
90°	366.8	378.4	383.0	387.6	389.9	392.2	392.2	394.5	394.5	396.8	396.8
92.5°	336.8	348.4	357.6	357.6	359.9	364.5	362.2	362.2	364.5	366.8	366.8
95°	313.8	323.0	329.9	332.2	334.5	334.5	334.5	336.8	334.5	336.8	336.8
97.5°	286.1	295.3	302.2	306.9	309.2	309.2	309.2	311.5	309.2	311.5	311.5
100°	263.0	272.2	279.2	281.5	286.1	286.1	286.1	286.1	286.1	286.1	288.4
102.5°	244.6	253.8	258.4	260.7	263.0	265.3	265.3	265.3	265.3	267.6	267.6
105°	226.1	235.3	239.9	242.3	244.6	246.9	246.9	246.9	249.2	249.2	246.9
107.5°	210.0	216.9	221.5	226.1	228.4	228.4	230.7	230.7	230.7	230.7	230.7
110°	193.8	200.7	207.6	212.3	212.3	214.6	214.6	216.9	216.9	214.6	216.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	177.7	186.9	191.5	196.1	198.4	200.7	200.7	200.7	200.7	200.7	200.7
115°	163.8	173.0	177.7	182.3	184.6	186.9	186.9	186.9	186.9	186.9	186.9
117.5°	152.3	161.5	166.1	168.4	170.7	173.0	175.3	175.3	175.3	175.3	173.0
120°	140.7	147.7	152.3	156.9	159.2	161.5	161.5	161.5	161.5	161.5	161.5
122.5°	129.2	136.1	140.7	145.4	147.7	150.0	150.0	150.0	150.0	150.0	150.0
125°	117.7	124.6	129.2	133.8	136.1	138.4	138.4	138.4	138.4	138.4	138.4
127.5°	106.1	113.1	120.0	122.3	124.6	126.9	126.9	126.9	129.2	126.9	126.9
130°	94.6	101.5	108.4	110.7	113.1	115.4	117.7	117.7	117.7	117.7	115.4
132.5°	85.4	92.3	96.9	99.2	103.8	103.8	106.1	106.1	106.1	106.1	103.8
135°	78.4	83.1	87.7	90.0	94.6	94.6	94.6	96.9	96.9	94.6	92.3
137.5°	69.2	73.8	78.4	80.8	83.1	85.4	85.4	87.7	85.4	85.4	85.4
140°	64.6	66.9	71.5	73.8	76.1	76.1	76.1	78.4	78.4	76.1	76.1
142.5°	55.4	60.0	64.6	66.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2
145°	46.1	53.1	55.4	60.0	60.0	62.3	62.3	62.3	62.3	62.3	60.0
147.5°	39.2	43.8	50.8	53.1	53.1	55.4	55.4	55.4	55.4	55.4	53.1
150°	30.0	34.6	41.5	46.1	46.1	48.5	48.5	48.5	48.5	46.1	46.1
152.5°	25.4	30.0	32.3	36.9	39.2	39.2	39.2	41.5	39.2	39.2	39.2
155°	23.1	25.4	27.7	30.0	32.3	34.6	34.6	34.6	34.6	32.3	32.3
157.5°	18.5	20.8	23.1	25.4	27.7	30.0	30.0	30.0	30.0	30.0	27.7
160°	13.8	16.2	18.5	18.5	20.8	23.1	25.4	23.1	23.1	23.1	23.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4185.2	4182.9	4189.8	4178.3	4143.7	4152.9	4148.3	4169.1	4173.7	4178.3	4199.0
5°	4185.2	4182.9	4187.5	4178.3	4141.4	4148.3	4143.7	4164.4	4169.1	4171.4	4192.1
7.5°	4176.0	4173.7	4180.6	4169.1	4129.8	4139.1	4132.1	4152.9	4155.2	4157.5	4176.0
10°	4157.5	4155.2	4159.8	4150.6	4111.4	4120.6	4111.4	4132.1	4132.1	4136.8	4150.6
12.5°	4129.8	4125.2	4134.4	4122.9	4079.1	4090.6	4086.0	4099.8	4102.1	4104.5	4118.3
15°	4090.6	4086.0	4092.9	4086.0	4046.8	4049.1	4042.2	4062.9	4065.2	4060.6	4074.5
17.5°	4032.9	4028.3	4042.2	4037.5	3998.3	4007.5	4005.2	4009.9	4016.8	4005.2	4023.7
20°	3961.4	3966.0	3970.6	3972.9	3942.9	3942.9	3940.6	3949.9	3956.8	3947.6	3961.4
22.5°	3855.3	3866.8	3880.7	3885.3	3864.5	3862.2	3876.0	3871.4	3878.3	3873.7	3883.0
25°	3721.5	3744.5	3758.4	3772.2	3760.7	3765.3	3786.1	3790.7	3790.7	3788.4	3797.6
27.5°	3555.3	3585.3	3610.7	3640.7	3629.2	3638.4	3673.0	3677.6	3686.9	3677.6	3696.1
30°	3356.9	3384.6	3433.1	3476.9	3481.5	3495.4	3543.8	3548.4	3573.8	3564.6	3571.5
32.5°	3158.5	3172.4	3227.7	3271.6	3299.2	3333.9	3386.9	3396.2	3430.8	3437.7	3437.7
35°	2909.3	2948.6	2999.3	3061.6	3096.2	3133.1	3204.7	3218.5	3269.3	3285.4	3303.9
37.5°	2699.4	2736.3	2768.6	2833.2	2895.5	2937.0	2994.7	3029.3	3082.4	3112.4	3135.4
40°	2475.6	2505.6	2540.2	2604.8	2657.9	2720.2	2777.8	2819.4	2886.3	2920.9	2950.9
42.5°	2263.3	2286.4	2323.3	2369.5	2424.8	2494.0	2549.4	2597.9	2669.4	2717.8	2752.5
45°	2074.1	2088.0	2120.3	2154.9	2203.3	2274.9	2327.9	2390.2	2447.9	2498.7	2540.2
47.5°	1896.5	1914.9	1931.1	1954.2	1998.0	2041.8	2104.1	2164.1	2221.8	2277.2	2318.7
50°	1732.7	1732.7	1758.1	1774.2	1804.2	1843.4	1891.9	1933.4	2004.9	2044.2	2097.2
52.5°	1573.5	1582.7	1596.6	1605.8	1628.9	1654.2	1693.5	1728.1	1788.1	1825.0	1875.7
55°	1432.8	1442.0	1448.9	1453.5	1467.4	1497.4	1511.2	1538.9	1580.4	1610.4	1654.2
57.5°	1298.9	1303.5	1310.5	1312.8	1315.1	1333.5	1345.1	1352.0	1393.5	1423.5	1460.4
60°	1176.7	1176.7	1183.6	1181.3	1179.0	1188.2	1185.9	1192.8	1218.2	1236.6	1252.8
62.5°	1061.3	1061.3	1063.6	1059.0	1056.7	1056.7	1047.5	1054.4	1061.3	1063.6	1075.1
65°	955.2	966.7	957.5	959.8	945.9	941.3	936.7	922.9	920.6	911.3	915.9
67.5°	860.6	869.8	860.6	860.6	849.0	839.8	828.3	805.2	798.3	779.8	775.2
70°	784.4	777.5	782.1	775.2	761.4	749.8	733.7	715.2	692.2	669.1	652.9
72.5°	710.6	710.6	706.0	699.1	692.2	669.1	650.6	629.9	602.2	572.2	549.1
75°	639.1	641.4	641.4	634.5	622.9	602.2	581.4	551.4	521.4	486.8	456.8
77.5°	588.3	588.3	588.3	576.8	565.3	546.8	521.4	489.1	456.8	415.3	380.7
80°	539.9	537.6	537.6	523.7	512.2	491.4	466.0	433.7	399.1	355.3	316.1
82.5°	500.7	498.3	493.7	482.2	466.0	445.3	419.9	385.3	348.4	309.2	260.7
85°	459.1	456.8	452.2	440.7	424.5	406.1	378.4	343.8	306.9	263.0	216.9
87.5°	422.2	419.9	413.0	406.1	387.6	366.8	339.2	306.9	267.6	226.1	180.0
90°	396.8	392.2	387.6	378.4	362.2	339.2	311.5	276.9	237.6	196.1	150.0
92.5°	366.8	364.5	357.6	348.4	334.5	311.5	283.8	251.5	212.3	173.0	129.2
95°	336.8	334.5	329.9	320.7	306.9	286.1	260.7	228.4	191.5	152.3	113.1
97.5°	309.2	309.2	302.2	295.3	279.2	263.0	237.6	207.6	173.0	138.4	101.5
100°	286.1	286.1	279.2	269.9	258.4	242.3	216.9	189.2	156.9	124.6	87.7
102.5°	265.3	263.0	258.4	249.2	237.6	221.5	198.4	173.0	143.0	110.7	78.4
105°	246.9	244.6	239.9	230.7	221.5	203.0	184.6	159.2	129.2	99.2	69.2
107.5°	228.4	226.1	223.8	214.6	203.0	186.9	168.4	143.0	117.7	90.0	62.3
110°	212.3	210.0	205.3	196.1	184.6	170.7	152.3	131.5	106.1	80.8	55.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	198.4	196.1	191.5	182.3	173.0	156.9	140.7	117.7	96.9	73.8	48.5
115°	184.6	182.3	177.7	168.4	156.9	143.0	126.9	108.4	85.4	64.6	43.8
117.5°	170.7	168.4	163.8	156.9	145.4	131.5	115.4	96.9	76.1	60.0	39.2
120°	159.2	154.6	150.0	143.0	131.5	120.0	103.8	87.7	69.2	53.1	34.6
122.5°	147.7	143.0	138.4	131.5	120.0	108.4	92.3	78.4	64.6	48.5	32.3
125°	133.8	131.5	126.9	120.0	108.4	96.9	85.4	71.5	57.7	43.8	27.7
127.5°	122.3	120.0	115.4	106.1	96.9	87.7	76.1	64.6	50.8	36.9	25.4
130°	113.1	108.4	103.8	96.9	90.0	80.8	69.2	57.7	46.1	32.3	23.1
132.5°	101.5	96.9	92.3	87.7	80.8	71.5	62.3	50.8	41.5	30.0	20.8
135°	92.3	87.7	83.1	78.4	71.5	64.6	55.4	46.1	36.9	27.7	18.5
137.5°	80.8	78.4	76.1	71.5	64.6	57.7	50.8	39.2	32.3	25.4	16.2
140°	73.8	71.5	69.2	62.3	57.7	50.8	43.8	34.6	27.7	20.8	13.8
142.5°	66.9	64.6	60.0	55.4	50.8	46.1	36.9	32.3	25.4	18.5	13.8
145°	57.7	55.4	53.1	48.5	43.8	36.9	32.3	27.7	23.1	16.2	11.5
147.5°	53.1	50.8	46.1	41.5	36.9	32.3	30.0	25.4	18.5	13.8	9.2
150°	43.8	41.5	39.2	34.6	32.3	30.0	25.4	20.8	16.2	11.5	9.2
152.5°	36.9	34.6	32.3	32.3	27.7	25.4	20.8	18.5	13.8	11.5	6.9
155°	32.3	32.3	30.0	27.7	23.1	20.8	18.5	13.8	11.5	9.2	6.9
157.5°	27.7	25.4	23.1	23.1	20.8	18.5	13.8	11.5	9.2	9.2	6.9
160°	23.1	20.8	20.8	18.5	16.2	13.8	11.5	11.5	9.2	6.9	6.9
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4201.4	4176.0	4199.0	4229.0	4229.0	4224.4	4219.8	4229.0	4252.1	4242.9	4215.2
5°	4194.4	4169.1	4189.8	4219.8	4219.8	4212.9	4208.3	4215.2	4240.6	4229.0	4203.7
7.5°	4180.6	4157.5	4171.4	4199.0	4199.0	4192.1	4187.5	4196.7	4217.5	4206.0	4178.3
10°	4155.2	4129.8	4146.0	4171.4	4169.1	4164.4	4157.5	4169.1	4187.5	4171.4	4139.1
12.5°	4122.9	4097.5	4111.4	4134.4	4132.1	4122.9	4118.3	4125.2	4141.4	4132.1	4097.5
15°	4079.1	4053.7	4065.2	4088.3	4081.4	4074.5	4065.2	4067.5	4088.3	4072.2	4035.2
17.5°	4026.0	3998.3	4007.5	4028.3	4021.4	4014.5	4002.9	4005.2	4028.3	4005.2	3966.0
20°	3961.4	3931.4	3938.3	3963.7	3952.2	3940.6	3929.1	3929.1	3952.2	3926.8	3883.0
22.5°	3892.2	3862.2	3866.8	3885.3	3876.0	3855.3	3843.7	3850.7	3862.2	3829.9	3783.8
25°	3806.8	3767.6	3774.5	3793.0	3786.1	3758.4	3746.8	3751.5	3746.8	3721.5	3673.0
27.5°	3707.6	3666.1	3670.7	3682.2	3673.0	3647.6	3633.8	3636.1	3626.9	3594.6	3539.2
30°	3583.0	3562.3	3560.0	3566.9	3553.0	3527.7	3511.5	3506.9	3504.6	3458.4	3391.5
32.5°	3456.1	3437.7	3426.1	3435.4	3419.2	3393.8	3366.2	3366.2	3343.1	3299.2	3241.6
35°	3326.9	3296.9	3285.4	3292.3	3273.9	3241.6	3218.5	3207.0	3172.4	3117.0	3054.7
37.5°	3160.8	3140.1	3126.2	3133.1	3112.4	3089.3	3045.5	3033.9	2997.0	2920.9	2842.4
40°	2980.9	2964.7	2950.9	2957.8	2934.7	2900.1	2860.9	2842.4	2800.9	2715.5	2653.2
42.5°	2787.1	2780.1	2764.0	2789.4	2743.2	2708.6	2669.4	2639.4	2597.9	2505.6	2434.1
45°	2581.7	2597.9	2561.0	2567.9	2537.9	2507.9	2466.4	2422.5	2381.0	2293.3	2212.6
47.5°	2364.8	2376.4	2351.0	2355.6	2323.3	2295.6	2258.7	2203.3	2157.2	2081.1	2009.5
50°	2141.1	2136.4	2136.4	2131.8	2106.4	2071.8	2034.9	1984.2	1938.0	1868.8	1808.8
52.5°	1903.4	1912.6	1917.3	1928.8	1896.5	1875.7	1818.0	1774.2	1739.6	1668.1	1617.3
55°	1675.0	1707.3	1698.1	1702.7	1665.8	1649.6	1603.5	1568.9	1518.1	1476.6	1444.3
57.5°	1467.4	1474.3	1478.9	1485.8	1469.7	1437.4	1400.5	1372.8	1333.5	1298.9	1275.9
60°	1266.6	1266.6	1268.9	1280.5	1264.3	1236.6	1209.0	1188.2	1160.5	1139.7	1125.9
62.5°	1077.4	1093.6	1095.9	1086.7	1065.9	1052.1	1033.6	1022.1	1003.6	996.7	992.1
65°	902.1	902.1	902.1	906.7	895.2	886.0	874.4	872.1	879.0	869.8	874.4
67.5°	754.4	747.5	742.9	745.2	740.6	736.0	733.7	740.6	754.4	754.4	766.0
70°	627.5	613.7	604.5	604.5	604.5	606.8	613.7	627.5	650.6	659.8	676.0
72.5°	523.7	493.7	479.9	479.9	482.2	491.4	512.2	537.6	558.3	576.8	597.6
75°	424.5	394.5	373.8	371.5	376.1	389.9	419.9	443.0	477.6	503.0	528.3
77.5°	343.8	306.9	281.5	279.2	286.1	306.9	343.8	373.8	413.0	440.7	468.4
80°	274.6	233.0	212.3	198.4	210.0	235.3	276.9	313.8	350.7	387.6	422.2
82.5°	219.2	180.0	147.7	133.8	147.7	182.3	221.5	265.3	302.2	341.5	376.1
85°	173.0	131.5	94.6	80.8	96.9	133.8	177.7	221.5	263.0	302.2	336.8
87.5°	136.1	94.6	57.7	39.2	60.0	99.2	140.7	184.6	228.4	267.6	302.2
90°	106.1	66.9	32.3	4.6	34.6	71.5	113.1	154.6	198.4	237.6	272.2
92.5°	90.0	50.8	18.5	0.0	20.8	53.1	92.3	133.8	173.0	212.3	246.9
95°	76.1	41.5	13.8	0.0	13.8	41.5	76.1	113.1	152.3	191.5	226.1
97.5°	64.6	32.3	9.2	0.0	9.2	32.3	62.3	99.2	133.8	170.7	203.0
100°	55.4	27.7	6.9	0.0	6.9	25.4	53.1	85.4	120.0	154.6	184.6
102.5°	48.5	23.1	4.6	0.0	4.6	20.8	43.8	73.8	103.8	136.1	166.1
105°	41.5	18.5	4.6	0.0	2.3	16.2	36.9	64.6	92.3	122.3	150.0
107.5°	36.9	16.2	4.6	0.0	2.3	13.8	32.3	55.4	83.1	108.4	133.8
110°	32.3	13.8	4.6	0.0	2.3	9.2	27.7	48.5	71.5	96.9	122.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.7	11.5	2.3	0.0	0.0	6.9	23.1	41.5	62.3	87.7	108.4
115°	25.4	11.5	2.3	0.0	0.0	4.6	18.5	36.9	55.4	78.4	96.9
117.5°	23.1	9.2	2.3	0.0	2.3	4.6	16.2	32.3	48.5	66.9	87.7
120°	20.8	9.2	2.3	0.0	2.3	2.3	11.5	27.7	41.5	60.0	76.1
122.5°	18.5	9.2	2.3	0.0	2.3	2.3	9.2	23.1	36.9	53.1	66.9
125°	16.2	6.9	4.6	2.3	2.3	2.3	6.9	18.5	32.3	43.8	60.0
127.5°	16.2	6.9	4.6	2.3	2.3	2.3	4.6	16.2	25.4	39.2	53.1
130°	13.8	6.9	4.6	2.3	2.3	2.3	2.3	11.5	23.1	32.3	43.8
132.5°	11.5	6.9	4.6	2.3	2.3	2.3	2.3	6.9	16.2	27.7	36.9
135°	11.5	6.9	4.6	2.3	2.3	2.3	2.3	4.6	11.5	20.8	30.0
137.5°	9.2	4.6	4.6	2.3	2.3	2.3	2.3	2.3	9.2	16.2	23.1
140°	9.2	4.6	4.6	2.3	2.3	2.3	2.3	2.3	6.9	11.5	18.5
142.5°	6.9	4.6	4.6	2.3	2.3	2.3	2.3	2.3	4.6	9.2	13.8
145°	6.9	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	4.6	9.2
147.5°	6.9	6.9	4.6	2.3	2.3	2.3	2.3	2.3	2.3	4.6	6.9
150°	6.9	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6
152.5°	6.9	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6
155°	6.9	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6
157.5°	6.9	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6
160°	6.9	4.6	4.6	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4206.0	4162.1	4185.2	4178.3	4187.5	4206.0	4203.7	4199.0	4199.0	4192.1	4182.9
5°	4192.1	4150.6	4171.4	4159.8	4171.4	4187.5	4185.2	4178.3	4182.9	4171.4	4159.8
7.5°	4164.4	4127.5	4146.0	4136.8	4146.0	4162.1	4155.2	4152.9	4157.5	4139.1	4132.1
10°	4132.1	4090.6	4111.4	4099.8	4111.4	4122.9	4118.3	4109.1	4118.3	4099.8	4092.9
12.5°	4081.4	4046.8	4060.6	4056.0	4062.9	4074.5	4065.2	4058.3	4062.9	4046.8	4032.9
15°	4026.0	3991.4	4002.9	3996.0	4000.6	4014.5	3998.3	3996.0	3991.4	3975.2	3970.6
17.5°	3954.5	3922.2	3933.7	3922.2	3929.1	3924.5	3922.2	3910.6	3910.6	3892.2	3878.3
20°	3866.8	3839.1	3832.2	3823.0	3832.2	3823.0	3809.1	3799.9	3797.6	3779.1	3767.6
22.5°	3765.3	3733.0	3737.6	3712.2	3714.5	3700.7	3677.6	3668.4	3659.2	3638.4	3622.3
25°	3643.0	3610.7	3587.6	3571.5	3550.7	3548.4	3518.4	3495.4	3493.1	3467.7	3465.4
27.5°	3504.6	3467.7	3449.2	3410.0	3384.6	3363.9	3338.5	3315.4	3303.9	3276.2	3257.7
30°	3345.4	3303.9	3257.7	3230.0	3190.8	3174.7	3130.8	3103.1	3093.9	3063.9	3050.1
32.5°	3165.4	3121.6	3084.7	3031.6	2987.8	2964.7	2920.9	2893.2	2881.7	2849.4	2830.9
35°	2969.3	2920.9	2877.0	2826.3	2791.7	2752.5	2699.4	2671.7	2646.3	2634.8	2620.9
37.5°	2764.0	2710.9	2660.2	2609.4	2579.4	2533.3	2487.1	2468.7	2438.7	2427.1	2413.3
40°	2551.7	2498.7	2450.2	2401.8	2367.2	2325.6	2284.1	2277.2	2244.9	2233.3	2224.1
42.5°	2341.8	2286.4	2231.0	2196.4	2171.0	2129.5	2101.8	2094.9	2067.2	2060.3	2060.3
45°	2152.6	2083.4	2037.2	2007.2	1986.5	1951.9	1928.8	1924.2	1901.1	1896.5	1896.5
47.5°	1949.6	1885.0	1850.3	1831.9	1813.4	1788.1	1774.2	1774.2	1751.1	1746.5	1744.2
50°	1760.4	1700.4	1675.0	1656.5	1654.2	1635.8	1624.2	1619.6	1619.6	1603.5	1605.8
52.5°	1580.4	1550.4	1529.7	1518.1	1504.3	1492.7	1483.5	1483.5	1476.6	1465.1	1469.7
55°	1414.3	1379.7	1382.0	1372.8	1365.8	1358.9	1361.2	1347.4	1345.1	1335.8	1342.8
57.5°	1248.2	1248.2	1243.6	1236.6	1225.1	1229.7	1229.7	1229.7	1218.2	1211.3	1218.2
60°	1107.4	1114.4	1102.8	1109.7	1105.1	1107.4	1102.8	1102.8	1095.9	1093.6	1095.9
62.5°	982.9	994.4	989.8	999.0	994.4	996.7	1001.3	992.1	987.5	982.9	987.5
65°	872.1	886.0	883.6	890.6	892.9	895.2	897.5	892.9	888.3	883.6	881.3
67.5°	775.2	789.1	798.3	800.6	802.9	809.8	807.5	802.9	798.3	791.4	789.1
70°	687.5	706.0	717.5	722.1	731.4	726.8	726.8	724.5	719.8	712.9	710.6
72.5°	613.7	634.5	646.0	650.6	659.8	659.8	657.5	655.2	650.6	643.7	641.4
75°	549.1	567.6	583.7	592.9	599.9	599.9	597.6	595.2	590.6	586.0	583.7
77.5°	498.3	514.5	528.3	539.9	544.5	546.8	544.5	539.9	539.9	537.6	535.3
80°	447.6	466.0	479.9	491.4	498.3	498.3	496.0	498.3	493.7	491.4	489.1
82.5°	403.8	424.5	440.7	452.2	456.8	459.1	456.8	459.1	454.5	454.5	454.5
85°	364.5	385.3	403.8	413.0	419.9	422.2	422.2	422.2	419.9	419.9	419.9
87.5°	332.2	353.0	371.5	380.7	387.6	389.9	389.9	392.2	387.6	387.6	387.6
90°	302.2	323.0	341.5	350.7	357.6	362.2	362.2	364.5	362.2	359.9	359.9
92.5°	274.6	297.6	316.1	325.3	332.2	339.2	339.2	341.5	336.8	336.8	336.8
95°	251.5	274.6	290.7	302.2	309.2	313.8	316.1	316.1	313.8	313.8	313.8
97.5°	230.7	251.5	267.6	279.2	286.1	288.4	290.7	293.0	290.7	290.7	290.7
100°	210.0	230.7	246.9	256.1	265.3	267.6	269.9	272.2	272.2	269.9	269.9
102.5°	191.5	212.3	226.1	237.6	244.6	249.2	251.5	251.5	251.5	251.5	251.5
105°	173.0	193.8	207.6	219.2	226.1	230.7	233.0	235.3	235.3	233.0	233.0
107.5°	156.9	175.3	191.5	200.7	210.0	214.6	216.9	216.9	219.2	216.9	216.9
110°	140.7	161.5	175.3	184.6	193.8	198.4	200.7	203.0	203.0	203.0	203.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	129.2	145.4	159.2	168.4	177.7	182.3	184.6	186.9	189.2	186.9	186.9
115°	115.4	131.5	145.4	154.6	161.5	166.1	170.7	173.0	173.0	175.3	173.0
117.5°	103.8	117.7	131.5	140.7	147.7	154.6	156.9	159.2	161.5	159.2	159.2
120°	92.3	106.1	117.7	126.9	133.8	140.7	143.0	145.4	147.7	145.4	145.4
122.5°	83.1	94.6	106.1	115.4	122.3	126.9	131.5	131.5	133.8	133.8	133.8
125°	73.8	85.4	94.6	103.8	110.7	115.4	117.7	120.0	120.0	122.3	122.3
127.5°	64.6	73.8	85.4	92.3	99.2	103.8	106.1	108.4	108.4	110.7	110.7
130°	55.4	64.6	73.8	80.8	87.7	92.3	94.6	96.9	99.2	99.2	99.2
132.5°	48.5	57.7	64.6	71.5	76.1	80.8	85.4	87.7	87.7	87.7	87.7
135°	39.2	48.5	55.4	62.3	66.9	71.5	73.8	78.4	78.4	78.4	78.4
137.5°	32.3	41.5	48.5	53.1	57.7	62.3	64.6	66.9	69.2	69.2	69.2
140°	25.4	32.3	39.2	46.1	50.8	53.1	57.7	57.7	60.0	60.0	60.0
142.5°	18.5	25.4	30.0	36.9	41.5	46.1	48.5	50.8	50.8	50.8	50.8
145°	13.8	18.5	23.1	27.7	34.6	36.9	39.2	41.5	43.8	43.8	43.8
147.5°	9.2	13.8	16.2	20.8	25.4	30.0	32.3	34.6	36.9	36.9	36.9
150°	6.9	9.2	13.8	16.2	18.5	23.1	27.7	27.7	30.0	30.0	27.7
152.5°	4.6	6.9	9.2	11.5	13.8	16.2	20.8	20.8	23.1	23.1	23.1
155°	4.6	4.6	4.6	6.9	9.2	11.5	13.8	16.2	16.2	16.2	16.2
157.5°	4.6	4.6	4.6	4.6	4.6	6.9	9.2	11.5	11.5	11.5	11.5
160°	4.6	4.6	2.3	2.3	4.6	4.6	4.6	4.6	6.9	6.9	6.9
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4189.8	4194.4	4194.4	4189.8	4187.5	4196.7	4185.2	4141.4	4155.2	4159.8	4173.7
5°	4169.1	4173.7	4173.7	4173.7	4169.1	4178.3	4166.7	4122.9	4139.1	4146.0	4155.2
7.5°	4139.1	4141.4	4146.0	4143.7	4139.1	4152.9	4141.4	4097.5	4109.1	4120.6	4132.1
10°	4099.8	4099.8	4102.1	4106.8	4102.1	4113.7	4102.1	4062.9	4074.5	4081.4	4095.2
12.5°	4046.8	4051.4	4053.7	4051.4	4049.1	4058.3	4053.7	4016.8	4021.4	4035.2	4049.1
15°	3975.2	3975.2	3986.8	3982.2	3982.2	3991.4	3996.0	3954.5	3961.4	3982.2	3996.0
17.5°	3887.6	3889.9	3899.1	3903.7	3901.4	3917.6	3919.9	3887.6	3885.3	3910.6	3924.5
20°	3774.5	3779.1	3790.7	3799.9	3799.9	3818.4	3825.3	3804.5	3806.8	3834.5	3839.1
22.5°	3636.1	3636.1	3656.9	3670.7	3682.2	3693.8	3714.5	3696.1	3696.1	3733.0	3753.8
25°	3465.4	3481.5	3488.4	3516.1	3532.3	3564.6	3583.0	3585.3	3587.6	3622.3	3636.1
27.5°	3276.2	3280.8	3301.6	3333.9	3352.3	3382.3	3416.9	3423.8	3435.4	3481.5	3502.3
30°	3061.6	3075.5	3084.7	3130.8	3156.2	3195.4	3239.3	3255.4	3264.6	3326.9	3352.3
32.5°	2842.4	2847.0	2886.3	2911.6	2941.6	2983.2	3033.9	3063.9	3082.4	3147.0	3183.9
35°	2623.2	2632.5	2664.8	2697.1	2727.1	2768.6	2821.7	2863.2	2895.5	2953.2	3001.6
37.5°	2422.5	2445.6	2452.5	2484.8	2507.9	2549.4	2586.3	2646.3	2678.6	2738.6	2800.9
40°	2242.6	2249.5	2254.1	2286.4	2302.6	2341.8	2394.8	2434.1	2477.9	2521.7	2595.6
42.5°	2064.9	2069.5	2076.5	2094.9	2113.4	2141.1	2180.3	2219.5	2265.6	2330.2	2378.7
45°	1901.1	1905.7	1910.3	1921.9	1938.0	1963.4	1988.8	2016.5	2062.6	2118.0	2168.7
47.5°	1748.8	1758.1	1758.1	1760.4	1771.9	1792.7	1811.1	1845.7	1871.1	1901.1	1958.8
50°	1603.5	1610.4	1612.7	1612.7	1619.6	1633.5	1638.1	1661.2	1684.2	1711.9	1753.4
52.5°	1467.4	1467.4	1465.1	1474.3	1474.3	1483.5	1485.8	1499.7	1515.8	1545.8	1564.3
55°	1338.2	1338.2	1345.1	1340.5	1340.5	1345.1	1342.8	1345.1	1358.9	1377.4	1393.5
57.5°	1213.6	1211.3	1218.2	1213.6	1211.3	1215.9	1220.5	1211.3	1213.6	1232.0	1232.0
60°	1089.0	1091.3	1098.2	1093.6	1093.6	1093.6	1089.0	1084.4	1079.8	1091.3	1095.9
62.5°	989.8	982.9	989.8	982.9	987.5	985.2	980.5	971.3	973.6	969.0	964.4
65°	886.0	886.0	888.3	881.3	886.0	886.0	879.0	876.7	862.9	858.3	846.7
67.5°	796.0	796.0	798.3	793.7	793.7	796.0	789.1	782.1	768.3	761.4	745.2
70°	717.5	717.5	717.5	715.2	715.2	715.2	710.6	701.4	687.5	676.0	655.2
72.5°	646.0	648.3	646.0	646.0	652.9	646.0	639.1	629.9	618.3	595.2	576.8
75°	588.3	590.6	588.3	588.3	588.3	586.0	583.7	569.9	556.0	537.6	509.9
77.5°	537.6	537.6	539.9	537.6	537.6	535.3	528.3	516.8	500.7	484.5	452.2
80°	489.1	491.4	493.7	496.0	491.4	489.1	482.2	473.0	452.2	433.7	401.4
82.5°	454.5	452.2	454.5	456.8	452.2	449.9	443.0	431.4	415.3	389.9	357.6
85°	419.9	417.6	417.6	419.9	417.6	413.0	406.1	394.5	378.4	353.0	320.7
87.5°	385.3	387.6	389.9	387.6	385.3	380.7	373.8	362.2	343.8	323.0	288.4
90°	359.9	359.9	359.9	359.9	357.6	353.0	346.1	332.2	316.1	290.7	260.7
92.5°	336.8	336.8	336.8	336.8	334.5	327.6	320.7	309.2	290.7	265.3	237.6
95°	313.8	316.1	313.8	313.8	309.2	306.9	295.3	283.8	267.6	242.3	212.3
97.5°	288.4	290.7	288.4	288.4	286.1	281.5	274.6	260.7	244.6	221.5	193.8
100°	269.9	269.9	267.6	267.6	265.3	260.7	251.5	239.9	223.8	200.7	173.0
102.5°	249.2	251.5	249.2	249.2	244.6	239.9	233.0	221.5	205.3	182.3	156.9
105°	233.0	233.0	230.7	230.7	226.1	221.5	214.6	200.7	186.9	166.1	140.7
107.5°	216.9	216.9	214.6	214.6	210.0	205.3	196.1	184.6	170.7	150.0	126.9
110°	200.7	200.7	200.7	198.4	193.8	186.9	180.0	168.4	154.6	136.1	113.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.2	186.9	184.6	182.3	177.7	173.0	163.8	152.3	138.4	122.3	101.5
115°	173.0	173.0	170.7	168.4	163.8	156.9	150.0	140.7	126.9	108.4	90.0
117.5°	159.2	159.2	156.9	154.6	150.0	143.0	136.1	126.9	113.1	96.9	80.8
120°	145.4	145.4	143.0	140.7	136.1	129.2	124.6	113.1	101.5	85.4	71.5
122.5°	133.8	131.5	131.5	126.9	124.6	117.7	110.7	101.5	90.0	76.1	62.3
125°	120.0	120.0	117.7	115.4	113.1	106.1	99.2	90.0	78.4	66.9	55.4
127.5°	108.4	108.4	106.1	103.8	101.5	94.6	87.7	80.8	69.2	57.7	46.1
130°	96.9	96.9	94.6	92.3	90.0	83.1	78.4	69.2	60.0	50.8	39.2
132.5°	87.7	87.7	85.4	83.1	78.4	73.8	69.2	60.0	53.1	43.8	34.6
135°	78.4	76.1	76.1	73.8	69.2	64.6	60.0	53.1	43.8	36.9	27.7
137.5°	69.2	66.9	64.6	62.3	60.0	55.4	50.8	46.1	39.2	30.0	23.1
140°	60.0	57.7	57.7	55.4	50.8	48.5	43.8	36.9	32.3	25.4	18.5
142.5°	50.8	50.8	48.5	46.1	43.8	41.5	36.9	32.3	25.4	20.8	13.8
145°	43.8	41.5	41.5	39.2	36.9	32.3	30.0	25.4	20.8	16.2	11.5
147.5°	34.6	34.6	34.6	32.3	30.0	27.7	25.4	20.8	16.2	11.5	6.9
150°	27.7	27.7	27.7	25.4	23.1	20.8	18.5	16.2	11.5	6.9	4.6
152.5°	23.1	23.1	20.8	20.8	18.5	16.2	13.8	11.5	6.9	4.6	4.6
155°	16.2	16.2	16.2	13.8	13.8	11.5	9.2	6.9	4.6	4.6	4.6
157.5°	11.5	11.5	11.5	9.2	9.2	6.9	6.9	4.6	4.6	4.6	4.6
160°	6.9	6.9	6.9	6.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4	4194.4
2.5°	4166.7	4164.4	4182.9	4182.9	4162.1	4194.4	4229.0
5°	4152.9	4150.6	4169.1	4169.1	4150.6	4182.9	4219.8
7.5°	4125.2	4127.5	4146.0	4150.6	4127.5	4157.5	4196.7
10°	4095.2	4092.9	4113.7	4118.3	4099.8	4127.5	4164.4
12.5°	4046.8	4046.8	4067.5	4074.5	4056.0	4088.3	4122.9
15°	3996.0	3996.0	4009.9	4021.4	4005.2	4035.2	4069.8
17.5°	3931.4	3929.1	3942.9	3956.8	3940.6	3972.9	4009.9
20°	3848.4	3848.4	3864.5	3880.7	3869.1	3899.1	3940.6
22.5°	3760.7	3751.5	3779.1	3790.7	3783.8	3813.7	3855.3
25°	3649.9	3647.6	3675.3	3691.5	3682.2	3714.5	3751.5
27.5°	3530.0	3527.7	3555.3	3576.1	3571.5	3601.5	3643.0
30°	3384.6	3396.2	3421.5	3456.1	3444.6	3476.9	3520.7
32.5°	3232.3	3243.9	3273.9	3310.8	3313.1	3338.5	3382.3
35°	3050.1	3080.1	3100.8	3149.3	3158.5	3183.9	3230.0
37.5°	2858.6	2893.2	2937.0	2973.9	2992.4	3013.2	3066.2
40°	2644.0	2694.8	2743.2	2787.1	2810.1	2830.9	2881.7
42.5°	2450.2	2489.4	2535.6	2579.4	2620.9	2639.4	2692.5
45°	2231.0	2277.2	2318.7	2371.8	2413.3	2434.1	2487.1
47.5°	2016.5	2062.6	2118.0	2154.9	2198.7	2219.5	2270.3
50°	1811.1	1852.7	1898.8	1942.6	1979.5	1998.0	2041.8
52.5°	1608.1	1651.9	1695.8	1723.5	1762.7	1776.5	1813.4
55°	1428.1	1458.1	1497.4	1513.5	1552.7	1562.0	1587.3
57.5°	1255.1	1275.9	1289.7	1317.4	1345.1	1365.8	1395.8
60°	1098.2	1107.4	1116.7	1132.8	1155.9	1162.8	1174.3
62.5°	957.5	955.2	973.6	978.2	980.5	1003.6	992.1
65°	832.9	835.2	819.0	812.1	821.4	828.3	823.7
67.5°	729.1	715.2	701.4	685.2	671.4	678.3	671.4
70°	627.5	616.0	592.9	569.9	560.6	546.8	539.9
72.5°	546.8	519.1	496.0	466.0	449.9	433.7	422.2
75°	484.5	445.3	413.0	380.7	357.6	334.5	329.9
77.5°	419.9	383.0	346.1	311.5	276.9	251.5	242.3
80°	369.1	334.5	290.7	249.2	212.3	180.0	168.4
82.5°	323.0	286.1	242.3	198.4	156.9	122.3	108.4
85°	283.8	244.6	200.7	156.9	115.4	78.4	60.0
87.5°	253.8	210.0	166.1	124.6	80.8	43.8	23.1
90°	226.1	184.6	143.0	99.2	57.7	23.1	0.0
92.5°	200.7	161.5	120.0	80.8	43.8	13.8	2.3
95°	177.7	143.0	101.5	64.6	32.3	9.2	2.3
97.5°	159.2	124.6	87.7	53.1	25.4	6.9	2.3
100°	143.0	108.4	76.1	43.8	20.8	4.6	2.3
102.5°	126.9	96.9	64.6	36.9	16.2	2.3	2.3
105°	113.1	85.4	55.4	32.3	13.8	2.3	2.3
107.5°	101.5	76.1	48.5	27.7	9.2	2.3	2.3
110°	90.0	64.6	41.5	23.1	6.9	2.3	2.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	80.8	57.7	36.9	18.5	4.6	2.3	2.3
115°	71.5	50.8	32.3	16.2	4.6	2.3	2.3
117.5°	62.3	43.8	27.7	11.5	2.3	2.3	2.3
120°	55.4	39.2	23.1	9.2	2.3	2.3	2.3
122.5°	48.5	32.3	18.5	6.9	2.3	2.3	2.3
125°	41.5	27.7	16.2	4.6	2.3	2.3	2.3
127.5°	34.6	23.1	11.5	4.6	2.3	2.3	2.3
130°	30.0	18.5	9.2	2.3	2.3	2.3	2.3
132.5°	25.4	13.8	6.9	2.3	2.3	2.3	2.3
135°	20.8	11.5	4.6	2.3	2.3	2.3	2.3
137.5°	16.2	9.2	4.6	2.3	2.3	2.3	2.3
140°	11.5	6.9	2.3	2.3	2.3	2.3	2.3
142.5°	9.2	4.6	2.3	2.3	2.3	2.3	2.3
145°	6.9	4.6	2.3	2.3	2.3	2.3	2.3
147.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3
150°	4.6	4.6	2.3	2.3	4.6	2.3	2.3
152.5°	4.6	2.3	2.3	2.3	4.6	2.3	2.3
155°	4.6	4.6	4.6	4.6	4.6	4.6	2.3
157.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
160°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)