

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-LD5-130HL-LC-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

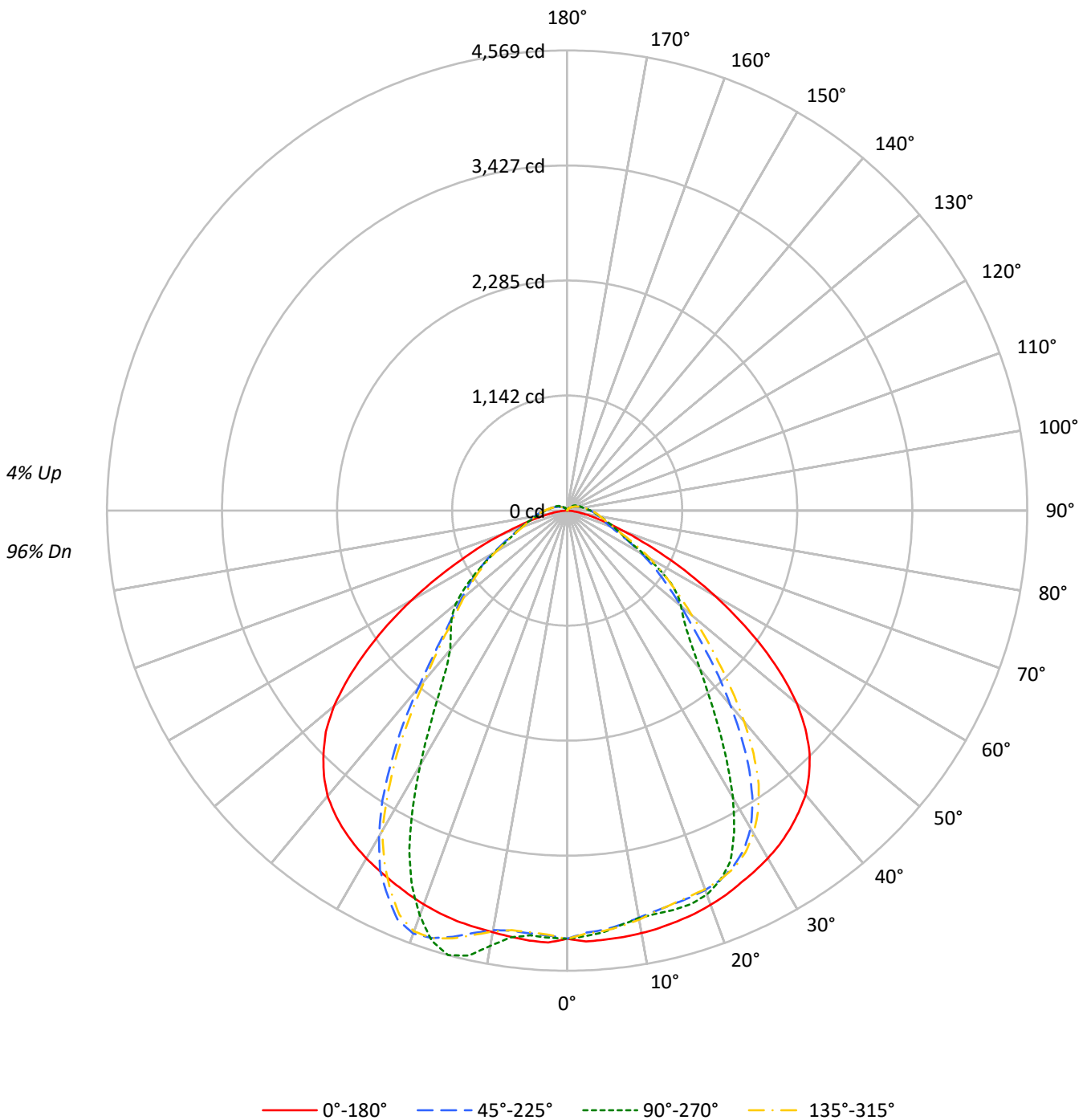
Lumens per Lamp: N/A  
Luminaire Lumens: 10134.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 86  
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	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°	17176	17176	17176	17176
5°	17325	16495	17360	16624
10°	17429	15809	17393	16882
15°	17589	15598	17580	17367
20°	17809	15350	17790	16181
25°	18057	14562	18047	14071
30°	18427	12621	18438	11181
35°	18823	10206	18877	8636
40°	19182	8217	19262	7240
45°	19161	6961	19260	6778
50°	18387	6408	18644	6265
55°	16371	5760	16779	5236
60°	13337	4409	14045	4043
65°	9973	3373	10745	3198
70°	6839	2911	7711	2784
75°	4535	2627	5279	2485
80°	3003	2450	3520	2253
85°	1640	2444	2159	2232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.8	4.0
10°-20°	1201.4	11.9
20°-30°	1826.5	18.0
30°-40°	1959.4	19.3
40°-50°	1700.5	16.8
50°-60°	1260.3	12.4
60°-70°	722.1	7.1
70°-80°	399.9	3.9
80°-90°	243.5	2.4
90°-100°	158.3	1.6
100°-110°	106.0	1.0
110°-120°	71.6	0.7
120°-130°	43.9	0.4
130°-140°	23.1	0.2
140°-150°	10.5	0.1
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3431.7	33.9
0°-40°	5391.1	53.2
0°-60°	8351.9	82.4
0°-90°	9717.3	95.9
90°-120°	336.0	3.3
90°-150°	413.6	4.1
90°-180°	417.0	4.1
0°-180°	10134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4251	4251	4251	4251	4251	
5°	4277	4200	4286	4233	4277	408
15°	4222	4104	4220	4569	4222	1195
25°	4080	3838	4078	3709	4080	1886
35°	3858	2613	3869	2211	3858	2415
45°	3406	1675	3423	1631	3406	2607
55°	2376	1256	2435	1142	2376	2107
65°	1078	637	1162	604	1078	1087
75°	307	404	358	382	307	351
85°	42	279	55	255	42	55
90°	0	233	4	215	0	2
95°	2	191	0	182	2	1
105°	2	143	2	136	2	2
115°	2	116	2	105	2	2
125°	2	88	2	72	2	2
135°	2	55	2	46	2	2
145°	2	33	4	26	2	2
155°	4	15	4	13	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4281.7	4270.7	4266.3	4257.5	4264.1	4290.5	4272.9	4244.4	4246.6	4196.1	4222.4
5°	4277.3	4264.1	4257.5	4248.8	4253.2	4277.3	4259.7	4231.2	4229.0	4178.5	4202.6
7.5°	4270.7	4257.5	4246.6	4240.0	4242.2	4261.9	4240.0	4207.0	4200.5	4145.6	4167.5
10°	4259.7	4251.0	4235.6	4224.6	4222.4	4244.4	4209.2	4176.3	4160.9	4103.8	4125.8
12.5°	4244.4	4231.2	4215.8	4196.1	4193.9	4207.0	4178.5	4132.4	4117.0	4070.9	4095.1
15°	4222.4	4207.0	4189.5	4167.5	4156.5	4165.3	4130.2	4088.5	4086.3	4046.8	4079.7
17.5°	4198.3	4176.3	4156.5	4125.8	4110.4	4117.0	4088.5	4051.1	4055.5	4031.4	4068.7
20°	4165.3	4141.2	4110.4	4079.7	4057.7	4068.7	4048.9	4020.4	4027.0	4009.4	4042.4
22.5°	4128.0	4095.1	4057.7	4022.6	4005.0	4020.4	4005.0	3980.9	3983.1	3972.1	3991.9
25°	4079.7	4042.4	3998.4	3954.5	3945.7	3956.7	3947.9	3928.2	3919.4	3901.8	3910.6
27.5°	4035.8	3994.1	3939.2	3893.1	3877.7	3899.6	3879.9	3846.9	3822.8	3798.6	3781.1
30°	3985.3	3934.8	3873.3	3820.6	3807.4	3816.2	3787.7	3737.2	3673.5	3642.7	3594.4
32.5°	3930.4	3864.5	3787.7	3728.4	3719.6	3713.0	3660.3	3587.8	3489.0	3427.6	3352.9
35°	3857.9	3785.5	3693.2	3620.8	3607.6	3570.3	3484.6	3388.0	3260.7	3155.3	3027.9
37.5°	3776.7	3691.0	3594.4	3497.8	3460.5	3385.8	3265.1	3164.1	2970.8	2843.5	2689.8
40°	3684.5	3581.3	3462.7	3346.3	3284.8	3164.1	3025.7	2876.4	2689.8	2518.5	2389.0
42.5°	3557.1	3447.3	3306.8	3177.2	3071.8	2911.6	2749.1	2538.3	2367.0	2222.1	2090.3
45°	3405.6	3273.9	3111.4	2955.5	2821.5	2630.5	2439.5	2228.7	2086.0	1916.9	1826.9
47.5°	3210.2	3067.5	2894.0	2720.5	2544.9	2334.1	2134.3	1932.3	1789.5	1668.8	1602.9
50°	2979.6	2847.9	2656.8	2450.4	2257.2	2037.6	1837.8	1686.3	1548.0	1473.3	1422.8
52.5°	2694.2	2571.2	2375.8	2151.8	1965.2	1750.0	1567.8	1444.8	1346.0	1291.1	1273.5
55°	2375.8	2268.2	2075.0	1866.4	1675.4	1477.7	1339.4	1231.8	1168.1	1135.2	1137.4
57.5°	2035.5	1952.0	1769.8	1583.1	1403.1	1253.8	1128.6	1043.0	994.7	992.5	999.1
60°	1695.1	1633.6	1475.5	1315.2	1157.2	1036.4	944.2	884.9	854.1	856.3	854.1
62.5°	1370.1	1313.1	1198.9	1067.1	942.0	860.7	777.3	753.1	726.8	724.6	724.6
65°	1078.1	1034.2	942.0	847.6	753.1	700.4	658.7	630.2	610.4	606.0	608.2
67.5°	810.2	792.7	729.0	665.3	606.0	573.1	538.0	531.4	516.0	516.0	520.4
70°	603.8	590.7	555.5	518.2	494.0	472.1	454.5	454.5	452.3	450.1	461.1
72.5°	437.0	439.1	428.2	399.6	397.4	393.0	388.6	395.2	397.4	404.0	417.2
75°	307.4	314.0	314.0	309.6	318.4	329.4	335.9	346.9	360.1	368.9	384.3
77.5°	217.4	217.4	228.4	241.5	259.1	278.9	296.4	311.8	329.4	340.3	353.5
80°	140.5	147.1	164.7	188.8	213.0	239.3	263.5	283.3	300.8	318.4	327.2
82.5°	83.4	94.4	116.4	147.1	177.9	210.8	234.9	259.1	278.9	296.4	303.0
85°	41.7	57.1	83.4	116.4	149.3	184.4	215.2	237.1	259.1	274.5	283.3
87.5°	13.2	30.7	59.3	90.0	125.2	160.3	193.2	217.4	237.1	250.3	259.1
90°	0.0	15.4	41.7	74.7	107.6	142.7	173.5	199.8	219.6	230.6	237.1
92.5°	0.0	8.8	32.9	61.5	92.2	127.4	158.1	182.2	199.8	210.8	215.2
95°	2.2	6.6	24.2	50.5	81.2	114.2	142.7	164.7	182.2	193.2	195.4
97.5°	2.2	4.4	19.8	41.7	70.3	101.0	129.5	151.5	164.7	175.7	177.9
100°	2.2	4.4	15.4	37.3	61.5	90.0	116.4	136.1	151.5	160.3	162.5
102.5°	2.2	2.2	13.2	30.7	54.9	79.0	103.2	123.0	136.1	144.9	149.3
105°	2.2	2.2	11.0	26.3	48.3	70.3	92.2	112.0	123.0	131.7	136.1
107.5°	2.2	2.2	8.8	22.0	41.7	61.5	83.4	98.8	112.0	120.8	125.2
110°	2.2	2.2	6.6	19.8	35.1	54.9	72.5	87.8	101.0	109.8	114.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.2	2.2	6.6	17.6	30.7	48.3	63.7	79.0	90.0	98.8	105.4
115°	2.2	2.2	6.6	15.4	28.5	41.7	57.1	70.3	81.2	90.0	96.6
117.5°	2.2	2.2	6.6	13.2	24.2	37.3	50.5	63.7	72.5	81.2	87.8
120°	2.2	2.2	4.4	11.0	22.0	32.9	43.9	54.9	65.9	74.7	81.2
122.5°	2.2	2.2	4.4	11.0	17.6	28.5	39.5	48.3	59.3	65.9	72.5
125°	2.2	2.2	4.4	8.8	15.4	26.3	35.1	43.9	50.5	59.3	65.9
127.5°	2.2	2.2	4.4	8.8	13.2	22.0	30.7	39.5	46.1	52.7	57.1
130°	2.2	2.2	4.4	6.6	11.0	17.6	26.3	32.9	41.7	46.1	50.5
132.5°	2.2	2.2	2.2	6.6	8.8	13.2	19.8	28.5	35.1	41.7	43.9
135°	2.2	2.2	2.2	4.4	8.8	11.0	15.4	22.0	28.5	35.1	39.5
137.5°	2.2	2.2	2.2	4.4	6.6	11.0	13.2	17.6	24.2	28.5	35.1
140°	2.2	2.2	2.2	4.4	6.6	8.8	11.0	15.4	19.8	24.2	28.5
142.5°	2.2	2.2	2.2	4.4	4.4	6.6	8.8	13.2	15.4	19.8	24.2
145°	2.2	2.2	2.2	4.4	4.4	6.6	8.8	11.0	13.2	15.4	19.8
147.5°	2.2	2.2	2.2	4.4	4.4	4.4	6.6	8.8	11.0	13.2	15.4
150°	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	11.0	13.2
152.5°	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6	8.8	11.0
155°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	8.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4213.6	4218.0	4244.4	4242.2	4237.8	4233.4	4233.4	4229.0	4233.4	4244.4	4240.0
5°	4191.7	4198.3	4218.0	4215.8	4211.4	4209.2	4207.0	4200.5	4204.8	4220.2	4215.8
7.5°	4152.1	4158.7	4176.3	4167.5	4160.9	4165.3	4154.3	4147.8	4156.5	4171.9	4169.7
10°	4110.4	4114.8	4136.8	4132.4	4121.4	4123.6	4112.6	4108.2	4119.2	4128.0	4130.2
12.5°	4081.9	4097.3	4117.0	4114.8	4112.6	4114.8	4103.8	4099.4	4106.0	4114.8	4112.6
15°	4075.3	4095.1	4117.0	4117.0	4119.2	4121.4	4110.4	4103.8	4110.4	4117.0	4114.8
17.5°	4068.7	4092.9	4112.6	4110.4	4112.6	4117.0	4099.4	4095.1	4103.8	4112.6	4108.2
20°	4046.8	4068.7	4081.9	4077.5	4077.5	4079.7	4057.7	4057.7	4070.9	4077.5	4079.7
22.5°	3985.3	4011.6	4011.6	4000.6	4000.6	3991.9	3985.3	3972.1	3987.5	3998.4	4007.2
25°	3893.1	3904.0	3890.9	3866.7	3853.5	3842.5	3811.8	3838.2	3838.2	3871.1	3882.1
27.5°	3763.5	3739.3	3702.0	3651.5	3640.5	3605.4	3585.6	3592.2	3603.2	3649.3	3684.5
30°	3550.5	3478.1	3414.4	3392.4	3344.1	3309.0	3273.9	3291.4	3311.2	3337.5	3410.0
32.5°	3269.5	3199.2	3096.0	3058.7	3008.2	2964.3	2922.5	2948.9	2984.0	3001.6	3080.6
35°	2946.7	2863.2	2768.8	2705.2	2652.5	2628.3	2575.6	2612.9	2650.3	2663.4	2731.5
37.5°	2604.1	2518.5	2435.1	2380.2	2329.7	2314.3	2279.2	2305.5	2334.1	2353.8	2410.9
40°	2279.2	2200.1	2136.5	2099.1	2064.0	2050.8	2037.6	2048.6	2070.6	2086.0	2129.9
42.5°	2000.3	1936.6	1892.7	1870.8	1846.6	1829.1	1831.2	1835.6	1846.6	1879.6	1899.3
45°	1756.6	1719.3	1690.7	1686.3	1671.0	1668.8	1666.6	1675.4	1681.9	1701.7	1717.1
47.5°	1561.2	1545.8	1539.2	1548.0	1554.6	1545.8	1550.2	1561.2	1574.3	1574.3	1572.2
50°	1407.5	1411.9	1420.6	1440.4	1453.6	1458.0	1462.4	1475.5	1477.7	1482.1	1475.5
52.5°	1282.3	1286.7	1310.9	1341.6	1357.0	1363.6	1372.3	1385.5	1385.5	1389.9	1381.1
55°	1155.0	1161.5	1185.7	1216.4	1229.6	1238.4	1247.2	1256.0	1262.6	1271.3	1264.7
57.5°	1014.4	1034.2	1049.6	1058.3	1067.1	1073.7	1080.3	1082.5	1095.7	1097.9	1108.8
60°	865.1	869.5	884.9	882.7	876.1	893.7	884.9	900.3	915.6	935.4	937.6
62.5°	722.4	724.6	735.6	731.2	740.0	737.8	744.4	744.4	755.3	764.1	775.1
65°	610.4	612.6	621.4	621.4	619.2	625.8	632.4	636.8	636.8	643.4	652.1
67.5°	527.0	533.6	542.3	546.7	551.1	551.1	557.7	559.9	564.3	566.5	570.9
70°	469.9	478.7	487.5	491.8	494.0	498.4	500.6	500.6	505.0	507.2	511.6
72.5°	428.2	437.0	443.5	443.5	447.9	450.1	450.1	452.3	454.5	458.9	463.3
75°	393.0	399.6	404.0	401.8	401.8	401.8	404.0	404.0	408.4	412.8	417.2
77.5°	360.1	366.7	366.7	362.3	362.3	362.3	362.3	364.5	366.7	371.1	375.5
80°	335.9	335.9	333.8	333.8	329.4	327.2	327.2	329.4	329.4	333.8	340.3
82.5°	309.6	309.6	307.4	305.2	303.0	300.8	300.8	303.0	305.2	307.4	311.8
85°	285.4	285.4	281.1	281.1	278.9	278.9	278.9	278.9	281.1	283.3	287.6
87.5°	261.3	259.1	256.9	254.7	254.7	254.7	254.7	254.7	256.9	261.3	263.5
90°	237.1	234.9	232.7	232.7	230.6	230.6	232.7	232.7	234.9	237.1	239.3
92.5°	215.2	213.0	210.8	210.8	208.6	208.6	210.8	208.6	213.0	213.0	215.2
95°	195.4	193.2	191.0	191.0	191.0	191.0	191.0	191.0	193.2	193.2	195.4
97.5°	177.9	175.7	173.5	173.5	175.7	173.5	175.7	175.7	175.7	177.9	180.1
100°	162.5	160.3	160.3	162.5	160.3	160.3	162.5	162.5	162.5	162.5	164.7
102.5°	149.3	149.3	149.3	149.3	149.3	149.3	151.5	151.5	151.5	151.5	153.7
105°	136.1	138.3	138.3	138.3	140.5	140.5	140.5	142.7	142.7	142.7	142.7
107.5°	127.4	129.5	129.5	131.7	131.7	133.9	133.9	133.9	133.9	136.1	136.1
110°	118.6	120.8	123.0	125.2	125.2	127.4	127.4	127.4	127.4	127.4	127.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	109.8	112.0	114.2	118.6	120.8	120.8	120.8	120.8	123.0	123.0	120.8
115°	101.0	105.4	107.6	112.0	114.2	114.2	116.4	116.4	116.4	116.4	114.2
117.5°	92.2	98.8	101.0	105.4	107.6	107.6	109.8	109.8	109.8	109.8	107.6
120°	85.6	90.0	94.4	96.6	98.8	101.0	101.0	103.2	103.2	103.2	101.0
122.5°	79.0	83.4	87.8	90.0	92.2	94.4	94.4	94.4	94.4	94.4	94.4
125°	70.3	74.7	79.0	81.2	83.4	85.6	85.6	87.8	87.8	87.8	85.6
127.5°	63.7	68.1	70.3	74.7	76.9	76.9	79.0	79.0	79.0	79.0	76.9
130°	54.9	59.3	63.7	65.9	68.1	68.1	70.3	70.3	70.3	70.3	70.3
132.5°	48.3	52.7	54.9	59.3	59.3	61.5	61.5	63.7	63.7	63.7	61.5
135°	43.9	46.1	48.3	52.7	52.7	54.9	54.9	54.9	54.9	54.9	54.9
137.5°	39.5	41.7	43.9	46.1	46.1	48.3	48.3	48.3	48.3	50.5	48.3
140°	32.9	37.3	39.5	39.5	41.7	41.7	41.7	43.9	43.9	43.9	41.7
142.5°	28.5	30.7	32.9	35.1	37.3	37.3	37.3	37.3	39.5	37.3	37.3
145°	22.0	26.3	28.5	30.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9
147.5°	17.6	19.8	24.2	26.3	26.3	28.5	28.5	28.5	28.5	28.5	28.5
150°	15.4	15.4	19.8	22.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2
152.5°	11.0	13.2	15.4	17.6	19.8	19.8	19.8	19.8	19.8	19.8	19.8
155°	11.0	11.0	13.2	13.2	15.4	15.4	15.4	15.4	17.6	15.4	15.4
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4233.4	4231.2	4240.0	4231.2	4187.3	4204.8	4198.3	4222.4	4224.6	4231.2	4253.2
5°	4211.4	4211.4	4222.4	4213.6	4171.9	4189.5	4187.3	4211.4	4215.8	4220.2	4244.4
7.5°	4167.5	4169.7	4185.1	4178.5	4134.6	4160.9	4158.7	4187.3	4196.1	4204.8	4226.8
10°	4125.8	4123.6	4141.2	4134.6	4092.9	4123.6	4121.4	4150.0	4163.1	4178.5	4204.8
12.5°	4103.8	4097.3	4103.8	4097.3	4051.1	4075.3	4077.5	4110.4	4125.8	4145.6	4176.3
15°	4103.8	4092.9	4092.9	4079.7	4027.0	4042.4	4044.6	4066.5	4086.3	4106.0	4143.4
17.5°	4099.4	4088.5	4086.3	4075.3	4018.2	4018.2	4016.0	4031.4	4042.4	4062.1	4101.6
20°	4075.3	4070.9	4068.7	4062.1	4009.4	4000.6	3996.2	3996.2	4002.8	4009.4	4048.9
22.5°	4011.6	4016.0	4020.4	4024.8	3983.1	3967.7	3969.9	3965.5	3958.9	3958.9	3991.9
25°	3893.1	3915.0	3932.6	3952.3	3928.2	3917.2	3930.4	3923.8	3912.8	3904.0	3932.6
27.5°	3704.2	3750.3	3787.7	3836.0	3838.2	3829.4	3864.5	3860.1	3857.9	3844.7	3866.7
30°	3442.9	3515.4	3565.9	3636.1	3695.4	3704.2	3763.5	3772.3	3781.1	3774.5	3796.4
32.5°	3126.7	3225.5	3311.2	3421.0	3478.1	3528.6	3612.0	3647.1	3682.3	3693.2	3717.4
35°	2782.0	2894.0	2995.0	3115.8	3205.8	3315.6	3416.6	3469.3	3548.3	3579.1	3614.2
37.5°	2454.8	2560.2	2659.0	2779.8	2924.7	3038.9	3164.1	3282.6	3390.2	3434.1	3486.8
40°	2165.0	2250.6	2345.1	2450.4	2582.2	2731.5	2867.6	3032.3	3159.7	3247.5	3324.4
42.5°	1945.4	1987.1	2068.4	2162.8	2268.2	2419.7	2558.0	2742.5	2896.2	3021.3	3148.7
45°	1750.0	1769.8	1829.1	1879.6	1987.1	2121.1	2268.2	2448.3	2608.5	2768.8	2922.5
47.5°	1583.1	1607.3	1635.8	1666.6	1743.4	1855.4	1982.8	2145.2	2305.5	2492.2	2667.8
50°	1471.1	1477.7	1482.1	1495.3	1541.4	1618.3	1721.5	1859.8	2013.5	2213.3	2399.9
52.5°	1372.3	1372.3	1359.2	1352.6	1370.1	1418.4	1477.7	1576.5	1734.6	1919.1	2116.7
55°	1266.9	1247.2	1242.8	1220.8	1225.2	1247.2	1275.7	1352.6	1482.1	1640.2	1831.2
57.5°	1119.8	1111.0	1111.0	1102.3	1084.7	1095.7	1102.3	1157.2	1249.4	1385.5	1552.4
60°	950.8	946.4	957.3	959.5	944.2	950.8	948.6	981.5	1047.4	1157.2	1295.5
62.5°	781.7	801.4	803.6	812.4	803.6	801.4	812.4	841.0	873.9	957.3	1064.9
65°	656.5	667.5	669.7	680.7	676.3	676.3	685.1	707.0	726.8	783.9	867.3
67.5°	575.3	570.9	573.1	579.7	573.1	570.9	577.5	590.7	606.0	641.2	700.4
70°	511.6	507.2	507.2	507.2	498.4	491.8	494.0	498.4	505.0	524.8	562.1
72.5°	463.3	463.3	456.7	450.1	443.5	439.1	434.8	430.4	428.2	434.8	454.5
75°	419.4	421.6	419.4	412.8	404.0	395.2	386.5	377.7	366.7	362.3	364.5
77.5°	379.9	382.1	384.3	382.1	373.3	362.3	349.1	335.9	320.6	305.2	296.4
80°	344.7	349.1	351.3	349.1	342.5	333.8	318.4	303.0	281.1	261.3	239.3
82.5°	314.0	320.6	322.8	322.8	318.4	309.6	292.0	274.5	250.3	224.0	195.4
85°	289.8	294.2	298.6	298.6	296.4	287.6	270.1	250.3	226.2	195.4	164.7
87.5°	265.7	267.9	272.3	276.7	272.3	263.5	248.1	226.2	202.0	171.3	136.1
90°	241.5	243.7	248.1	252.5	250.3	241.5	228.4	208.6	182.2	149.3	114.2
92.5°	217.4	221.8	224.0	226.2	228.4	221.8	210.8	191.0	164.7	131.7	98.8
95°	199.8	199.8	204.2	206.4	208.6	202.0	193.2	173.5	149.3	118.6	85.6
97.5°	182.2	182.2	186.6	186.6	188.8	184.4	175.7	158.1	133.9	105.4	72.5
100°	164.7	166.9	169.1	171.3	171.3	169.1	160.3	142.7	120.8	94.4	63.7
102.5°	153.7	153.7	155.9	155.9	158.1	153.7	144.9	129.5	107.6	83.4	54.9
105°	142.7	142.7	144.9	144.9	142.7	138.3	129.5	116.4	96.6	72.5	48.3
107.5°	133.9	133.9	133.9	133.9	131.7	127.4	118.6	103.2	85.6	65.9	43.9
110°	127.4	125.2	125.2	123.0	120.8	114.2	105.4	92.2	76.9	57.1	37.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	120.8	118.6	116.4	114.2	109.8	103.2	94.4	83.4	68.1	50.5	32.9
115°	114.2	112.0	109.8	105.4	101.0	94.4	85.6	74.7	59.3	43.9	28.5
117.5°	107.6	105.4	101.0	96.6	92.2	85.6	76.9	65.9	52.7	39.5	26.3
120°	98.8	96.6	94.4	90.0	85.6	76.9	68.1	59.3	46.1	35.1	22.0
122.5°	92.2	90.0	85.6	83.4	76.9	70.3	61.5	52.7	41.7	30.7	19.8
125°	83.4	81.2	79.0	74.7	70.3	61.5	54.9	46.1	37.3	26.3	15.4
127.5°	76.9	74.7	70.3	65.9	61.5	54.9	48.3	41.7	32.9	22.0	15.4
130°	68.1	65.9	63.7	59.3	54.9	48.3	43.9	35.1	28.5	19.8	13.2
132.5°	59.3	59.3	57.1	52.7	48.3	43.9	37.3	30.7	24.2	17.6	11.0
135°	54.9	52.7	50.5	46.1	43.9	37.3	32.9	26.3	19.8	15.4	8.8
137.5°	48.3	46.1	43.9	41.7	37.3	32.9	28.5	22.0	17.6	13.2	8.8
140°	41.7	39.5	39.5	35.1	32.9	28.5	24.2	19.8	15.4	11.0	6.6
142.5°	37.3	35.1	32.9	30.7	28.5	24.2	19.8	15.4	13.2	8.8	6.6
145°	32.9	30.7	28.5	26.3	24.2	19.8	17.6	13.2	11.0	8.8	6.6
147.5°	26.3	26.3	24.2	22.0	19.8	17.6	15.4	13.2	8.8	6.6	4.4
150°	22.0	22.0	19.8	17.6	17.6	15.4	13.2	11.0	8.8	6.6	4.4
152.5°	19.8	17.6	17.6	15.4	15.4	13.2	11.0	8.8	6.6	6.6	4.4
155°	15.4	15.4	15.4	13.2	13.2	11.0	8.8	8.8	6.6	4.4	4.4
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4257.5	4231.2	4253.2	4292.7	4288.3	4283.9	4279.5	4288.3	4316.8	4301.5	4277.3
5°	4251.0	4224.6	4248.8	4286.1	4283.9	4277.3	4272.9	4281.7	4310.2	4294.9	4268.5
7.5°	4237.8	4213.6	4231.2	4268.5	4268.5	4264.1	4259.7	4268.5	4294.9	4281.7	4255.3
10°	4215.8	4198.3	4215.8	4251.0	4253.2	4244.4	4240.0	4251.0	4277.3	4270.7	4248.8
12.5°	4198.3	4180.7	4200.5	4235.6	4237.8	4229.0	4222.4	4235.6	4270.7	4275.1	4268.5
15°	4174.1	4158.7	4182.9	4220.2	4220.2	4213.6	4213.6	4231.2	4279.5	4299.3	4310.2
17.5°	4139.0	4128.0	4156.5	4193.9	4196.1	4191.7	4193.9	4229.0	4292.7	4341.0	4371.7
20°	4095.1	4090.7	4121.4	4160.9	4167.5	4169.7	4180.7	4233.4	4321.2	4387.1	4417.8
22.5°	4042.4	4044.6	4079.7	4121.4	4130.2	4136.8	4158.7	4233.4	4343.2	4413.4	4426.6
25°	3983.1	3989.7	4027.0	4077.5	4088.5	4101.6	4139.0	4235.6	4349.8	4395.9	4373.9
27.5°	3919.4	3932.6	3980.9	4033.6	4046.8	4068.7	4117.0	4222.4	4319.0	4321.2	4240.0
30°	3853.5	3868.9	3926.0	3987.5	4009.4	4031.4	4090.7	4191.7	4244.4	4174.1	4031.4
32.5°	3778.9	3800.8	3857.9	3932.6	3958.9	3987.5	4046.8	4132.4	4112.6	3961.1	3756.9
35°	3684.5	3715.2	3781.1	3868.9	3893.1	3930.4	3972.1	3991.9	3904.0	3688.8	3458.3
37.5°	3568.1	3614.2	3691.0	3792.0	3818.4	3842.5	3853.5	3798.6	3623.0	3390.2	3150.9
40°	3434.1	3504.4	3587.8	3699.8	3726.2	3726.2	3686.7	3570.3	3348.5	3043.3	2777.6
42.5°	3271.7	3357.3	3462.7	3574.7	3601.0	3570.3	3475.9	3271.7	3019.1	2678.8	2397.7
45°	3074.0	3188.2	3306.8	3423.2	3436.3	3368.3	3199.2	2940.1	2628.3	2312.1	2044.2
47.5°	2839.1	2988.4	3118.0	3249.7	3232.1	3118.0	2891.8	2597.6	2268.2	1969.6	1754.4
50°	2575.6	2751.3	2896.2	3021.3	2984.0	2825.9	2560.2	2252.8	1925.7	1671.0	1493.1
52.5°	2294.6	2496.6	2641.5	2742.5	2692.0	2503.1	2211.1	1916.9	1649.0	1416.3	1297.7
55°	2002.5	2206.7	2356.0	2435.1	2369.2	2165.0	1877.4	1609.5	1357.0	1205.5	1135.2
57.5°	1719.3	1910.3	2050.8	2114.5	2031.1	1826.9	1561.2	1335.0	1152.8	1025.4	990.3
60°	1447.0	1602.9	1736.8	1785.1	1695.1	1506.3	1277.9	1097.9	963.9	876.1	858.5
62.5°	1194.5	1321.8	1427.2	1464.6	1376.7	1229.6	1032.0	898.1	803.6	759.7	737.8
65°	985.9	1060.5	1168.1	1161.5	1108.8	972.7	827.8	733.4	671.9	643.4	630.2
67.5°	775.1	843.2	911.2	920.0	854.1	759.7	665.3	597.2	564.3	548.9	542.3
70°	599.4	649.9	691.7	680.7	645.5	586.3	527.0	489.7	476.5	469.9	469.9
72.5°	465.5	491.8	511.6	498.4	476.5	445.7	417.2	401.8	404.0	408.4	412.8
75°	360.1	366.7	371.1	357.9	353.5	333.8	331.6	333.8	346.9	360.1	366.7
77.5°	276.7	267.9	261.3	248.1	250.3	248.1	259.1	276.7	296.4	316.2	333.8
80°	213.0	193.2	177.9	164.7	171.3	182.2	204.2	230.6	256.9	278.9	300.8
82.5°	164.7	136.1	114.2	101.0	114.2	131.7	160.3	193.2	224.0	248.1	272.3
85°	127.4	94.4	68.1	54.9	68.1	94.4	125.2	162.5	195.4	221.8	245.9
87.5°	98.8	68.1	37.3	22.0	37.3	65.9	101.0	136.1	169.1	199.8	224.0
90°	79.0	46.1	17.6	4.4	19.8	46.1	79.0	114.2	147.1	180.1	204.2
92.5°	63.7	32.9	8.8	0.0	11.0	35.1	65.9	98.8	131.7	162.5	186.6
95°	52.7	26.3	6.6	0.0	8.8	26.3	52.7	85.6	116.4	147.1	166.9
97.5°	43.9	19.8	4.4	0.0	4.4	22.0	43.9	72.5	103.2	131.7	151.5
100°	37.3	17.6	4.4	0.0	4.4	17.6	37.3	63.7	90.0	116.4	136.1
102.5°	30.7	13.2	2.2	2.2	2.2	13.2	32.9	54.9	79.0	103.2	123.0
105°	28.5	11.0	2.2	2.2	2.2	11.0	28.5	48.3	70.3	92.2	109.8
107.5°	24.2	8.8	2.2	2.2	2.2	8.8	24.2	41.7	63.7	83.4	98.8
110°	19.8	8.8	2.2	2.2	2.2	8.8	19.8	37.3	54.9	72.5	87.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	17.6	6.6	2.2	2.2	2.2	6.6	17.6	32.9	48.3	65.9	79.0
115°	15.4	6.6	2.2	2.2	2.2	6.6	15.4	28.5	41.7	57.1	70.3
117.5°	13.2	6.6	2.2	2.2	2.2	4.4	13.2	24.2	37.3	50.5	63.7
120°	11.0	4.4	2.2	2.2	2.2	4.4	11.0	22.0	32.9	43.9	54.9
122.5°	11.0	4.4	2.2	2.2	2.2	4.4	8.8	17.6	28.5	37.3	48.3
125°	8.8	4.4	2.2	2.2	2.2	2.2	8.8	15.4	24.2	32.9	41.7
127.5°	8.8	4.4	2.2	2.2	2.2	2.2	6.6	13.2	19.8	28.5	37.3
130°	6.6	4.4	2.2	2.2	2.2	2.2	4.4	11.0	17.6	24.2	30.7
132.5°	6.6	4.4	2.2	2.2	2.2	2.2	4.4	8.8	13.2	19.8	26.3
135°	6.6	2.2	2.2	2.2	2.2	2.2	2.2	6.6	11.0	15.4	19.8
137.5°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	8.8	11.0	17.6
140°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.6	8.8	13.2
142.5°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.6	11.0
145°	4.4	2.2	2.2	4.4	4.4	2.2	2.2	4.4	4.4	6.6	8.8
147.5°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.6
150°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6
152.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
155°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4272.9	4222.4	4248.8	4240.0	4248.8	4270.7	4268.5	4261.9	4266.3	4255.3	4244.4
5°	4264.1	4213.6	4240.0	4229.0	4240.0	4261.9	4257.5	4251.0	4257.5	4244.4	4233.4
7.5°	4253.2	4207.0	4237.8	4235.6	4255.3	4283.9	4286.1	4286.1	4301.5	4281.7	4272.9
10°	4253.2	4229.0	4270.7	4286.1	4336.6	4373.9	4378.3	4387.1	4413.4	4409.0	4387.1
12.5°	4299.3	4294.9	4356.4	4393.7	4439.8	4492.5	4521.0	4529.8	4547.4	4534.2	4525.4
15°	4358.5	4380.5	4448.6	4490.3	4540.8	4580.3	4586.9	4591.3	4604.5	4584.7	4569.3
17.5°	4437.6	4450.8	4505.7	4523.2	4556.2	4562.8	4554.0	4532.0	4532.0	4488.1	4474.9
20°	4474.9	4468.3	4490.3	4461.7	4448.6	4409.0	4371.7	4330.0	4327.8	4281.7	4277.3
22.5°	4442.0	4398.1	4352.0	4281.7	4251.0	4193.9	4143.4	4119.2	4103.8	4044.6	4029.2
25°	4325.6	4218.0	4150.0	4066.5	3991.9	3926.0	3877.7	3827.2	3778.9	3730.6	3708.6
27.5°	4123.6	4022.6	3912.8	3796.4	3693.2	3592.2	3511.0	3460.5	3414.4	3350.7	3317.8
30°	3875.5	3735.0	3614.2	3502.2	3333.1	3210.2	3142.1	3041.1	3006.0	2977.4	2915.9
32.5°	3583.5	3414.4	3249.7	3098.2	2924.7	2810.5	2720.5	2645.9	2623.9	2549.3	2531.7
35°	3260.7	3038.9	2852.3	2703.0	2577.8	2439.5	2364.8	2314.3	2270.4	2219.9	2211.1
37.5°	2880.8	2681.0	2470.2	2338.5	2239.7	2121.1	2064.0	2028.9	2009.1	1971.8	1965.2
40°	2498.8	2298.9	2154.0	2022.3	1960.8	1897.1	1855.4	1840.0	1831.2	1818.1	1804.9
42.5°	2151.8	1976.2	1873.0	1785.1	1758.8	1728.0	1717.1	1725.9	1717.1	1712.7	1710.5
45°	1857.6	1723.7	1651.2	1624.8	1618.3	1609.5	1618.3	1633.6	1635.8	1631.4	1631.4
47.5°	1589.7	1526.0	1495.3	1499.7	1510.7	1517.3	1532.6	1552.4	1556.8	1545.8	1550.2
50°	1414.1	1376.7	1370.1	1387.7	1411.9	1420.6	1438.2	1453.6	1451.4	1447.0	1442.6
52.5°	1249.4	1238.4	1256.0	1273.5	1299.9	1304.3	1310.9	1317.4	1315.2	1306.5	1302.1
55°	1111.0	1119.8	1135.2	1141.8	1161.5	1159.4	1161.5	1161.5	1152.8	1148.4	1141.8
57.5°	985.9	988.1	996.9	999.1	1010.0	1005.6	1003.5	999.1	985.9	983.7	977.1
60°	858.5	854.1	873.9	858.5	867.3	858.5	856.3	845.4	832.2	830.0	825.6
62.5°	737.8	729.0	742.2	735.6	740.0	731.2	726.8	713.6	702.6	700.4	698.2
65°	630.2	625.8	639.0	636.8	641.2	630.2	625.8	617.0	608.2	606.0	603.8
67.5°	540.2	551.1	557.7	557.7	562.1	559.9	548.9	546.7	544.5	535.8	535.8
70°	474.3	480.9	494.0	496.2	494.0	498.4	489.7	487.5	485.3	480.9	478.7
72.5°	421.6	430.4	443.5	445.7	443.5	443.5	439.1	437.0	437.0	430.4	430.4
75°	379.9	390.8	401.8	401.8	401.8	397.4	393.0	393.0	388.6	386.5	382.1
77.5°	344.7	357.9	366.7	364.5	362.3	357.9	357.9	351.3	344.7	344.7	340.3
80°	318.4	327.2	333.8	331.6	329.4	322.8	320.6	314.0	309.6	303.0	303.0
82.5°	289.8	300.8	305.2	303.0	298.6	292.0	289.8	285.4	281.1	278.9	274.5
85°	265.7	276.7	278.9	274.5	270.1	265.7	263.5	261.3	259.1	254.7	254.7
87.5°	241.5	252.5	252.5	250.3	245.9	243.7	241.5	239.3	237.1	234.9	232.7
90°	221.8	230.6	230.6	228.4	226.2	224.0	221.8	219.6	217.4	215.2	215.2
92.5°	202.0	210.8	210.8	208.6	206.4	204.2	204.2	202.0	199.8	197.6	195.4
95°	184.4	193.2	193.2	193.2	191.0	188.8	188.8	186.6	184.4	184.4	182.2
97.5°	166.9	175.7	175.7	175.7	173.5	171.3	171.3	169.1	169.1	169.1	166.9
100°	151.5	158.1	160.3	160.3	158.1	158.1	158.1	155.9	155.9	155.9	153.7
102.5°	136.1	142.7	147.1	147.1	147.1	144.9	144.9	144.9	144.9	144.9	142.7
105°	123.0	129.5	133.9	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1
107.5°	112.0	118.6	123.0	125.2	127.4	127.4	129.5	129.5	129.5	129.5	129.5
110°	101.0	107.6	114.2	116.4	118.6	120.8	120.8	123.0	120.8	120.8	120.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	90.0	98.8	103.2	107.6	109.8	112.0	114.2	114.2	114.2	114.2	114.2
115°	81.2	90.0	94.4	98.8	103.2	105.4	105.4	107.6	107.6	107.6	105.4
117.5°	72.5	81.2	85.6	90.0	92.2	96.6	98.8	98.8	98.8	98.8	96.6
120°	65.9	72.5	76.9	81.2	85.6	87.8	90.0	90.0	90.0	90.0	90.0
122.5°	57.1	63.7	70.3	74.7	76.9	79.0	81.2	81.2	81.2	81.2	81.2
125°	50.5	57.1	61.5	65.9	68.1	72.5	72.5	72.5	72.5	72.5	72.5
127.5°	43.9	50.5	54.9	59.3	61.5	63.7	65.9	65.9	65.9	65.9	65.9
130°	37.3	43.9	48.3	52.7	54.9	57.1	57.1	59.3	59.3	59.3	59.3
132.5°	32.9	37.3	41.7	46.1	48.3	50.5	50.5	52.7	52.7	52.7	52.7
135°	26.3	32.9	35.1	39.5	41.7	43.9	43.9	46.1	46.1	46.1	46.1
137.5°	22.0	26.3	30.7	35.1	37.3	37.3	39.5	39.5	41.7	41.7	41.7
140°	17.6	19.8	26.3	28.5	30.7	32.9	35.1	35.1	35.1	35.1	35.1
142.5°	13.2	17.6	19.8	24.2	26.3	28.5	30.7	30.7	30.7	30.7	30.7
145°	11.0	13.2	15.4	19.8	22.0	24.2	26.3	26.3	26.3	26.3	26.3
147.5°	8.8	11.0	13.2	15.4	17.6	19.8	22.0	22.0	22.0	22.0	22.0
150°	6.6	8.8	11.0	11.0	13.2	15.4	17.6	19.8	19.8	19.8	19.8
152.5°	6.6	6.6	8.8	8.8	11.0	13.2	15.4	15.4	15.4	15.4	15.4
155°	4.4	6.6	6.6	6.6	8.8	8.8	11.0	13.2	13.2	13.2	13.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4251.0	4259.7	4255.3	4248.8	4246.6	4257.5	4246.6	4196.1	4215.8	4218.0	4233.4
5°	4244.4	4251.0	4246.6	4242.2	4235.6	4248.8	4235.6	4182.9	4202.6	4204.8	4220.2
7.5°	4288.3	4290.5	4290.5	4279.5	4261.9	4268.5	4251.0	4191.7	4202.6	4202.6	4213.6
10°	4398.1	4402.5	4409.0	4380.5	4358.5	4341.0	4316.8	4244.4	4242.2	4224.6	4224.6
12.5°	4540.8	4529.8	4518.8	4505.7	4488.1	4466.1	4431.0	4345.4	4316.8	4288.3	4259.7
15°	4582.5	4578.1	4575.9	4569.3	4558.4	4551.8	4525.4	4439.8	4398.1	4362.9	4312.4
17.5°	4472.7	4481.5	4510.1	4512.2	4525.4	4551.8	4547.4	4488.1	4450.8	4435.4	4373.9
20°	4275.1	4277.3	4312.4	4327.8	4384.9	4428.8	4461.7	4455.2	4446.4	4463.9	4417.8
22.5°	4038.0	4053.3	4090.7	4114.8	4169.7	4220.2	4272.9	4301.5	4347.6	4420.0	4411.2
25°	3715.2	3735.0	3787.7	3827.2	3904.0	3980.9	4051.1	4101.6	4156.5	4294.9	4341.0
27.5°	3328.7	3359.5	3427.6	3467.1	3574.7	3653.7	3754.7	3853.5	3930.4	4088.5	4182.9
30°	2922.5	2948.9	3021.3	3076.2	3168.5	3276.0	3403.4	3543.9	3671.3	3831.6	3950.1
32.5°	2542.7	2571.2	2630.5	2678.8	2782.0	2872.0	3012.6	3186.0	3304.6	3526.4	3684.5
35°	2211.1	2237.5	2279.2	2320.9	2406.5	2498.8	2619.5	2788.6	2940.1	3170.7	3370.5
37.5°	1978.4	1982.8	2006.9	2031.1	2094.7	2165.0	2259.4	2408.7	2549.3	2797.4	3016.9
40°	1811.5	1811.5	1824.7	1831.2	1859.8	1901.5	1960.8	2077.2	2193.5	2382.4	2650.3
42.5°	1708.3	1703.9	1703.9	1706.1	1703.9	1723.7	1758.8	1813.7	1916.9	2072.8	2281.4
45°	1631.4	1622.7	1616.1	1600.7	1591.9	1591.9	1594.1	1613.9	1673.2	1774.2	1943.2
47.5°	1545.8	1543.6	1532.6	1515.1	1499.7	1488.7	1471.1	1464.6	1482.1	1539.2	1653.4
50°	1447.0	1436.0	1425.0	1411.9	1394.3	1383.3	1350.4	1352.6	1337.2	1363.6	1422.8
52.5°	1302.1	1293.3	1288.9	1277.9	1271.3	1266.9	1240.6	1214.2	1207.7	1212.0	1234.0
55°	1141.8	1146.2	1128.6	1137.4	1135.2	1115.4	1104.5	1084.7	1078.1	1075.9	1086.9
57.5°	974.9	979.3	968.3	977.1	977.1	966.1	959.5	959.5	944.2	931.0	946.4
60°	823.4	814.6	821.2	832.2	832.2	825.6	821.2	821.2	810.2	805.8	816.8
62.5°	700.4	691.7	698.2	709.2	711.4	707.0	702.6	702.6	689.5	689.5	698.2
65°	606.0	608.2	606.0	614.8	614.8	617.0	612.6	608.2	592.9	599.4	597.2
67.5°	538.0	535.8	535.8	544.5	542.3	546.7	542.3	535.8	524.8	516.0	513.8
70°	480.9	478.7	478.7	483.1	485.3	485.3	483.1	478.7	463.3	454.5	447.9
72.5°	430.4	428.2	430.4	432.6	434.8	437.0	434.8	430.4	417.2	406.2	395.2
75°	384.3	382.1	388.6	388.6	390.8	390.8	393.0	390.8	379.9	366.7	353.5
77.5°	338.1	340.3	346.9	349.1	353.5	355.7	357.9	357.9	346.9	335.9	318.4
80°	300.8	305.2	309.6	311.8	316.2	322.8	325.0	327.2	318.4	307.4	287.6
82.5°	274.5	276.7	281.1	283.3	289.8	292.0	294.2	298.6	294.2	283.3	261.3
85°	252.5	254.7	259.1	259.1	263.5	267.9	270.1	272.3	270.1	259.1	237.1
87.5°	232.7	234.9	237.1	239.3	241.5	243.7	245.9	248.1	245.9	234.9	215.2
90°	215.2	215.2	217.4	217.4	219.6	221.8	226.2	226.2	224.0	215.2	195.4
92.5°	195.4	197.6	197.6	199.8	202.0	204.2	206.4	206.4	204.2	195.4	177.9
95°	182.2	182.2	184.4	184.4	186.6	186.6	188.8	188.8	186.6	177.9	160.3
97.5°	166.9	166.9	166.9	166.9	169.1	169.1	171.3	171.3	169.1	160.3	144.9
100°	153.7	153.7	153.7	153.7	153.7	155.9	155.9	155.9	153.7	144.9	129.5
102.5°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	138.3	131.7	116.4
105°	136.1	136.1	136.1	133.9	133.9	133.9	131.7	131.7	125.2	118.6	105.4
107.5°	127.4	127.4	127.4	125.2	125.2	123.0	120.8	120.8	114.2	107.6	94.4
110°	120.8	120.8	120.8	118.6	116.4	114.2	112.0	109.8	103.2	94.4	83.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	114.2	114.2	112.0	112.0	109.8	107.6	103.2	101.0	94.4	85.6	74.7
115°	105.4	105.4	105.4	103.2	101.0	98.8	96.6	92.2	85.6	76.9	65.9
117.5°	96.6	96.6	96.6	94.4	92.2	90.0	87.8	83.4	76.9	68.1	59.3
120°	87.8	87.8	87.8	85.6	83.4	81.2	79.0	74.7	68.1	61.5	50.5
122.5°	81.2	81.2	79.0	76.9	74.7	72.5	70.3	65.9	61.5	52.7	43.9
125°	72.5	72.5	70.3	70.3	68.1	65.9	63.7	59.3	52.7	46.1	39.5
127.5°	65.9	63.7	63.7	63.7	61.5	59.3	54.9	52.7	46.1	39.5	32.9
130°	57.1	57.1	57.1	54.9	54.9	52.7	48.3	43.9	39.5	35.1	28.5
132.5°	50.5	50.5	50.5	50.5	48.3	46.1	41.7	39.5	35.1	28.5	24.2
135°	46.1	46.1	43.9	43.9	41.7	39.5	37.3	32.9	28.5	24.2	19.8
137.5°	39.5	39.5	39.5	37.3	37.3	35.1	30.7	28.5	26.3	22.0	17.6
140°	35.1	35.1	32.9	32.9	30.7	30.7	28.5	24.2	22.0	17.6	15.4
142.5°	30.7	30.7	28.5	28.5	26.3	26.3	24.2	22.0	17.6	15.4	11.0
145°	26.3	26.3	24.2	24.2	24.2	22.0	19.8	17.6	15.4	13.2	11.0
147.5°	22.0	22.0	22.0	19.8	19.8	17.6	17.6	15.4	13.2	11.0	8.8
150°	19.8	19.8	17.6	17.6	17.6	15.4	13.2	13.2	11.0	8.8	6.6
152.5°	15.4	15.4	15.4	15.4	13.2	13.2	11.0	11.0	8.8	6.6	6.6
155°	13.2	13.2	13.2	11.0	11.0	11.0	8.8	8.8	6.6	6.6	4.4
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4226.8	4224.6	4244.4	4242.2	4215.8	4255.3	4281.7
5°	4215.8	4213.6	4231.2	4235.6	4207.0	4248.8	4277.3
7.5°	4207.0	4204.8	4224.6	4231.2	4202.6	4240.0	4270.7
10°	4209.2	4198.3	4215.8	4220.2	4193.9	4233.4	4259.7
12.5°	4224.6	4198.3	4204.8	4204.8	4180.7	4215.8	4244.4
15°	4261.9	4207.0	4198.3	4191.7	4160.9	4193.9	4222.4
17.5°	4303.7	4229.0	4198.3	4176.3	4139.0	4167.5	4198.3
20°	4345.4	4253.2	4202.6	4167.5	4117.0	4143.4	4165.3
22.5°	4365.1	4275.1	4207.0	4154.3	4090.7	4103.8	4128.0
25°	4338.8	4266.3	4198.3	4134.6	4057.7	4059.9	4079.7
27.5°	4242.2	4222.4	4178.5	4114.8	4031.4	4020.4	4035.8
30°	4077.5	4132.4	4134.6	4088.5	4000.6	3978.7	3985.3
32.5°	3846.9	3969.9	4042.4	4033.6	3956.7	3926.0	3930.4
35°	3581.3	3735.0	3893.1	3945.7	3890.9	3866.7	3857.9
37.5°	3262.9	3469.3	3680.1	3809.6	3800.8	3785.5	3776.7
40°	2911.6	3159.7	3410.0	3616.4	3680.1	3680.1	3684.5
42.5°	2536.1	2825.9	3100.4	3361.7	3511.0	3543.9	3557.1
45°	2173.8	2465.8	2764.4	3065.3	3265.1	3368.3	3405.6
47.5°	1844.4	2138.7	2421.9	2751.3	3016.9	3150.9	3210.2
50°	1563.4	1782.9	2081.6	2408.7	2698.6	2863.2	2979.6
52.5°	1330.6	1501.9	1763.2	2068.4	2360.4	2586.6	2694.2
55°	1135.2	1251.6	1473.3	1736.8	2015.7	2250.6	2375.8
57.5°	970.5	1062.7	1214.2	1433.8	1668.8	1901.5	2035.5
60°	825.6	889.3	992.5	1165.9	1365.8	1565.6	1695.1
62.5°	700.4	742.2	810.2	937.6	1093.5	1249.4	1370.1
65°	603.8	621.4	658.7	737.8	856.3	974.9	1078.1
67.5°	509.4	520.4	548.9	597.2	656.5	742.2	810.2
70°	439.1	439.1	441.3	469.9	500.6	555.5	603.8
72.5°	382.1	375.5	362.3	368.9	375.5	406.2	437.0
75°	335.9	320.6	298.6	289.8	285.4	289.8	307.4
77.5°	296.4	274.5	248.1	226.2	208.6	202.0	217.4
80°	263.5	237.1	206.4	177.9	149.3	133.9	140.5
82.5°	237.1	204.2	171.3	138.3	105.4	83.4	83.4
85°	208.6	177.9	142.7	107.6	74.7	46.1	41.7
87.5°	188.8	155.9	118.6	85.6	52.7	24.2	13.2
90°	169.1	136.1	101.0	68.1	37.3	11.0	0.0
92.5°	151.5	120.8	87.8	54.9	26.3	6.6	0.0
95°	136.1	107.6	74.7	46.1	22.0	4.4	2.2
97.5°	120.8	94.4	65.9	37.3	15.4	4.4	2.2
100°	109.8	83.4	57.1	30.7	13.2	2.2	2.2
102.5°	96.6	74.7	48.3	26.3	11.0	2.2	2.2
105°	85.6	65.9	41.7	22.0	8.8	2.2	2.2
107.5°	76.9	57.1	37.3	19.8	8.8	2.2	2.2
110°	68.1	50.5	32.9	17.6	6.6	2.2	2.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	61.5	43.9	28.5	15.4	4.4	2.2	2.2
115°	52.7	39.5	24.2	13.2	4.4	2.2	2.2
117.5°	46.1	32.9	22.0	11.0	4.4	2.2	2.2
120°	39.5	28.5	17.6	8.8	2.2	2.2	2.2
122.5°	35.1	24.2	15.4	8.8	2.2	2.2	2.2
125°	30.7	22.0	13.2	6.6	2.2	2.2	2.2
127.5°	26.3	17.6	11.0	4.4	2.2	2.2	2.2
130°	22.0	15.4	8.8	4.4	2.2	2.2	2.2
132.5°	17.6	13.2	8.8	4.4	2.2	2.2	2.2
135°	15.4	11.0	6.6	4.4	2.2	2.2	2.2
137.5°	13.2	8.8	4.4	4.4	4.4	2.2	2.2
140°	11.0	6.6	4.4	4.4	4.4	4.4	2.2
142.5°	8.8	6.6	4.4	4.4	4.4	4.4	2.2
145°	6.6	4.4	4.4	4.4	4.4	4.4	2.2
147.5°	6.6	4.4	4.4	4.4	4.4	4.4	2.2
150°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
152.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
155°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)