

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-LD5-136SL-LN-UNV-L930-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-LD5-136SL-LN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

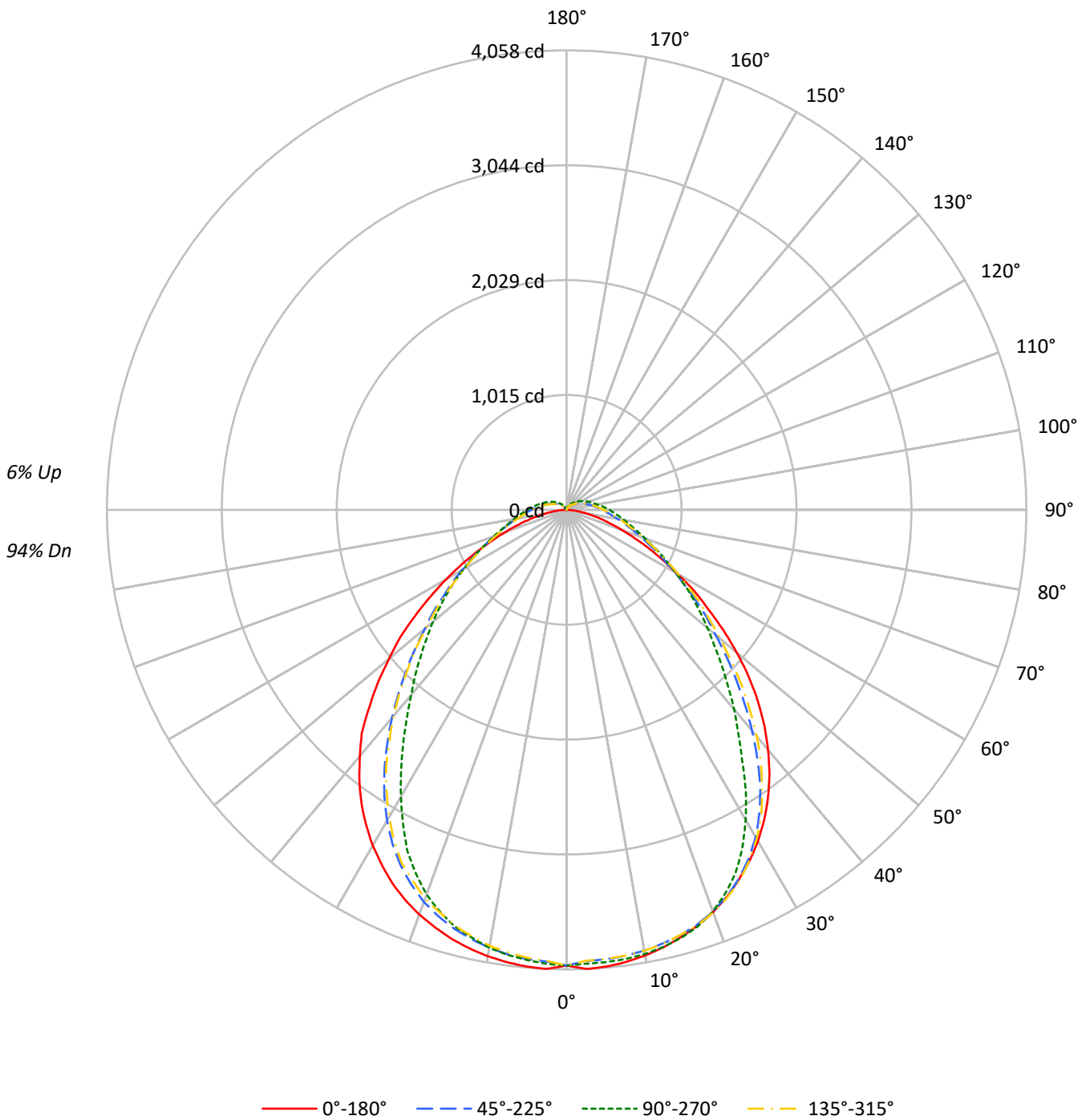
Lumens per Lamp: N/A
Luminaire Lumens: 10185.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	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°	16261	16261	16261	16261
5°	16400	15743	16400	15674
10°	16349	15325	16376	15112
15°	16267	14867	16340	14480
20°	16166	14278	16260	13675
25°	15931	13405	16107	12615
30°	15620	12122	15825	11222
35°	15122	10549	15413	9823
40°	14395	9226	14775	8560
45°	13426	8020	13862	7560
50°	12090	7047	12623	6691
55°	10494	6223	11257	5909
60°	8866	5464	9667	5149
65°	7311	4831	8048	4479
70°	5868	4287	6570	3965
75°	4670	3959	5257	3642
80°	3454	3819	4070	3490
85°	2266	3841	3048	3530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	3.7
10°-20°	1094.1	10.7
20°-30°	1621.5	15.9
30°-40°	1801.4	17.7
40°-50°	1632.9	16.0
50°-60°	1265.3	12.4
60°-70°	859.3	8.4
70°-80°	546.7	5.4
80°-90°	349.5	3.4
90°-100°	235.6	2.3
100°-110°	161.4	1.6
110°-120°	107.7	1.1
120°-130°	67.0	0.7
130°-140°	37.0	0.4
140°-150°	17.4	0.2
150°-160°	6.4	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	3097.1	30.4
0°-40°	4898.4	48.1
0°-60°	7796.7	76.6
0°-90°	9552.1	93.8
90°-120°	504.7	5.0
90°-150°	626.1	6.1
90°-180°	633.0	6.2
0°-180°	10185.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4024	4024	4024	4024	4024	
5°	4049	4009	4049	3991	4049	385
15°	3905	3912	3923	3810	3905	1102
25°	3600	3533	3639	3325	3600	1658
35°	3099	2701	3159	2515	3099	1933
45°	2386	1930	2464	1820	2386	1833
55°	1523	1357	1634	1288	1523	1371
65°	790	912	870	846	790	792
75°	317	609	356	560	317	341
85°	58	438	78	403	58	69
90°	0	378	4	345	0	3
95°	2	323	0	301	2	2
105°	2	237	0	224	2	2
115°	2	179	0	166	2	2
125°	2	133	2	117	2	2
135°	2	93	2	75	2	2
145°	2	60	2	42	2	1
155°	2	33	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°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4057.7	4053.3	4048.9	4042.2	4048.9	4066.6	4055.5	4031.2	4026.7	3986.9	4004.6
5°	4048.9	4042.2	4037.8	4031.2	4040.0	4062.2	4051.1	4028.9	4022.3	3984.7	4004.6
7.5°	4026.7	4022.3	4015.7	4015.7	4024.5	4046.7	4037.8	4013.5	4009.0	3971.4	3993.5
10°	3995.7	3993.5	3989.1	3989.1	3998.0	4024.5	4013.5	3991.3	3986.9	3951.5	3975.8
12.5°	3955.9	3958.1	3951.5	3951.5	3964.7	3991.3	3982.5	3958.1	3953.7	3922.7	3947.0
15°	3905.0	3907.2	3902.8	3905.0	3918.3	3949.3	3938.2	3916.0	3911.6	3887.3	3907.2
17.5°	3847.4	3849.6	3849.6	3847.4	3862.9	3893.9	3885.1	3865.1	3858.5	3838.6	3862.9
20°	3781.0	3781.0	3781.0	3781.0	3798.7	3829.7	3818.6	3803.1	3789.9	3774.4	3794.3
22.5°	3699.1	3696.9	3699.1	3705.7	3723.5	3747.8	3741.2	3723.5	3703.5	3694.7	3710.2
25°	3599.5	3606.1	3608.3	3615.0	3637.1	3657.0	3650.4	3632.7	3601.7	3595.1	3599.5
27.5°	3495.4	3499.9	3506.5	3504.3	3535.3	3555.2	3541.9	3526.4	3482.2	3475.5	3471.1
30°	3378.1	3384.8	3389.2	3387.0	3411.3	3433.5	3420.2	3400.3	3340.5	3336.1	3300.6
32.5°	3245.3	3251.9	3256.4	3256.4	3291.8	3300.6	3276.3	3247.5	3183.3	3167.8	3136.8
35°	3099.2	3105.8	3108.0	3108.0	3143.5	3141.3	3110.3	3070.4	2999.6	2979.6	2926.5
37.5°	2942.0	2946.4	2948.7	2961.9	2977.4	2964.2	2924.3	2873.4	2820.3	2764.9	2707.4
40°	2764.9	2771.6	2776.0	2784.8	2800.3	2784.8	2727.3	2665.3	2607.7	2545.8	2488.2
42.5°	2583.4	2603.3	2598.9	2596.7	2605.5	2563.5	2519.2	2448.4	2390.8	2326.6	2269.0
45°	2386.4	2384.2	2395.2	2399.7	2397.4	2362.0	2300.0	2235.8	2178.3	2111.9	2063.2
47.5°	2178.3	2176.1	2184.9	2189.4	2176.1	2138.4	2089.7	2016.7	1968.0	1910.4	1872.8
50°	1959.1	1959.1	1972.4	1959.1	1952.5	1914.9	1875.0	1802.0	1764.3	1713.4	1691.3
52.5°	1740.0	1759.9	1746.6	1742.2	1735.5	1697.9	1666.9	1607.2	1576.2	1554.0	1527.5
55°	1523.0	1545.2	1536.3	1529.7	1527.5	1496.5	1467.7	1423.4	1403.5	1388.0	1372.5
57.5°	1339.3	1337.1	1332.7	1326.0	1328.2	1303.9	1275.1	1250.7	1241.9	1235.2	1239.7
60°	1126.8	1144.5	1137.8	1140.1	1142.3	1137.8	1113.5	1098.0	1100.2	1102.4	1109.1
62.5°	951.9	967.4	978.5	969.6	974.0	980.7	967.4	963.0	971.8	980.7	989.5
65°	790.3	805.8	816.9	814.6	827.9	841.2	839.0	843.4	863.3	874.4	885.5
67.5°	644.2	659.7	675.2	677.4	697.3	717.2	726.1	741.6	763.7	779.2	792.5
70°	518.0	531.3	549.0	560.1	586.6	613.2	628.7	659.7	673.0	695.1	704.0
72.5°	405.1	416.2	440.5	467.1	489.2	522.4	553.4	580.0	599.9	624.3	635.3
75°	316.6	321.0	347.6	378.5	409.5	447.2	480.4	509.2	535.7	560.1	577.8
77.5°	232.4	239.1	263.4	305.5	340.9	380.8	418.4	449.4	478.2	502.5	526.9
80°	161.6	174.9	201.4	243.5	283.4	327.6	363.0	398.5	429.5	453.8	478.2
82.5°	104.0	115.1	152.7	194.8	236.9	281.1	318.8	354.2	387.4	414.0	436.1
85°	57.6	73.1	110.7	155.0	197.0	241.3	281.1	316.6	349.8	374.1	396.3
87.5°	22.1	44.3	79.7	121.8	163.8	205.9	247.9	281.1	314.3	340.9	360.8
90°	0.0	26.6	59.8	101.8	143.9	186.0	225.8	261.2	292.2	316.6	338.7
92.5°	2.2	17.7	46.5	81.9	121.8	161.6	199.2	234.7	265.6	290.0	309.9
95°	2.2	13.3	37.6	70.8	106.3	143.9	179.3	212.5	241.3	265.6	285.6
97.5°	2.2	8.9	31.0	62.0	93.0	130.6	163.8	194.8	221.4	245.7	261.2
100°	2.2	8.9	26.6	53.1	84.1	117.3	148.3	179.3	203.7	223.6	241.3
102.5°	2.2	6.6	22.1	46.5	75.3	104.0	135.0	163.8	186.0	205.9	223.6
105°	2.2	6.6	19.9	39.8	66.4	95.2	121.8	148.3	172.7	190.4	205.9
107.5°	2.2	4.4	17.7	33.2	57.6	86.3	112.9	135.0	157.2	174.9	190.4
110°	2.2	4.4	15.5	31.0	50.9	77.5	101.8	124.0	143.9	161.6	174.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.2	4.4	13.3	28.8	46.5	68.6	93.0	112.9	132.8	148.3	161.6
115°	2.2	4.4	13.3	26.6	42.1	59.8	81.9	104.0	119.5	137.2	148.3
117.5°	2.2	4.4	11.1	22.1	39.8	55.3	75.3	93.0	110.7	126.2	137.2
120°	2.2	4.4	11.1	19.9	35.4	50.9	66.4	84.1	101.8	112.9	124.0
122.5°	2.2	4.4	8.9	19.9	31.0	46.5	59.8	75.3	90.8	104.0	115.1
125°	2.2	4.4	8.9	17.7	28.8	42.1	55.3	66.4	81.9	93.0	104.0
127.5°	2.2	4.4	8.9	15.5	26.6	37.6	50.9	62.0	73.1	84.1	93.0
130°	2.2	4.4	6.6	13.3	24.4	33.2	44.3	57.6	66.4	75.3	84.1
132.5°	2.2	4.4	6.6	13.3	19.9	28.8	39.8	50.9	59.8	68.6	75.3
135°	2.2	4.4	6.6	11.1	17.7	26.6	33.2	44.3	53.1	62.0	68.6
137.5°	2.2	4.4	6.6	11.1	15.5	22.1	28.8	37.6	46.5	53.1	62.0
140°	2.2	4.4	6.6	8.9	13.3	19.9	26.6	31.0	39.8	46.5	53.1
142.5°	2.2	4.4	6.6	8.9	13.3	17.7	22.1	26.6	33.2	39.8	46.5
145°	2.2	4.4	6.6	8.9	11.1	15.5	19.9	24.4	26.6	33.2	37.6
147.5°	2.2	4.4	6.6	8.9	8.9	13.3	17.7	19.9	24.4	26.6	31.0
150°	2.2	4.4	6.6	6.6	8.9	11.1	15.5	17.7	19.9	24.4	26.6
152.5°	2.2	4.4	6.6	6.6	8.9	11.1	13.3	15.5	17.7	19.9	22.1
155°	2.2	4.4	6.6	6.6	6.6	8.9	11.1	13.3	15.5	17.7	19.9
157.5°	4.4	4.4	4.4	6.6	6.6	8.9	8.9	11.1	13.3	13.3	15.5
160°	4.4	4.4	4.4	6.6	6.6	6.6	8.9	8.9	11.1	11.1	13.3
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°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4000.2	4006.8	4026.7	4026.7	4022.3	4017.9	4017.9	4011.2	4015.7	4024.5	4020.1
5°	4000.2	4006.8	4026.7	4026.7	4022.3	4017.9	4015.7	4009.0	4015.7	4024.5	4020.1
7.5°	3986.9	3995.7	4015.7	4015.7	4011.2	4009.0	4004.6	4000.2	4006.8	4015.7	4011.2
10°	3969.2	3978.0	3998.0	3998.0	3993.5	3993.5	3986.9	3982.5	3991.3	3998.0	3995.7
12.5°	3942.6	3953.7	3971.4	3969.2	3964.7	3967.0	3960.3	3951.5	3960.3	3967.0	3969.2
15°	3905.0	3918.3	3936.0	3931.5	3924.9	3929.3	3918.3	3911.6	3918.3	3931.5	3929.3
17.5°	3856.3	3865.1	3878.4	3878.4	3871.8	3867.3	3862.9	3856.3	3860.7	3869.6	3871.8
20°	3787.7	3798.7	3805.4	3798.7	3796.5	3789.9	3781.0	3774.4	3783.2	3796.5	3798.7
22.5°	3696.9	3699.1	3714.6	3699.1	3688.0	3685.8	3677.0	3663.7	3677.0	3688.0	3690.2
25°	3584.0	3595.1	3588.4	3561.9	3561.9	3544.1	3539.7	3533.1	3535.3	3555.2	3564.1
27.5°	3440.1	3444.5	3426.8	3404.7	3384.8	3373.7	3358.2	3360.4	3360.4	3387.0	3395.8
30°	3282.9	3258.6	3243.1	3207.7	3192.2	3165.6	3161.2	3161.2	3156.7	3170.0	3209.9
32.5°	3094.8	3061.6	3037.2	3004.0	2977.4	2950.9	2937.6	2944.2	2942.0	2975.2	2988.5
35°	2888.9	2869.0	2818.0	2776.0	2760.5	2720.6	2720.6	2700.7	2714.0	2751.6	2767.1
37.5°	2671.9	2641.0	2598.9	2552.4	2541.3	2510.3	2499.3	2488.2	2517.0	2523.6	2539.1
40°	2450.6	2421.8	2381.9	2337.7	2337.7	2300.0	2300.0	2300.0	2302.3	2315.5	2344.3
42.5°	2240.3	2209.3	2173.9	2142.9	2138.4	2109.7	2109.7	2107.4	2111.9	2122.9	2149.5
45°	2036.6	2012.3	1974.6	1959.1	1961.3	1930.4	1937.0	1930.4	1939.2	1950.3	1959.1
47.5°	1848.4	1832.9	1817.5	1795.3	1788.7	1786.5	1775.4	1766.5	1782.0	1782.0	1795.3
50°	1673.6	1664.7	1655.9	1642.6	1644.8	1635.9	1622.6	1622.6	1633.7	1635.9	1644.8
52.5°	1520.8	1509.7	1498.7	1500.9	1503.1	1498.7	1492.0	1485.4	1492.0	1496.5	1507.5
55°	1368.1	1359.2	1370.3	1365.9	1370.3	1365.9	1361.4	1357.0	1368.1	1361.4	1372.5
57.5°	1230.8	1239.7	1244.1	1235.2	1241.9	1237.5	1239.7	1233.0	1241.9	1246.3	1244.1
60°	1104.6	1117.9	1111.3	1113.5	1122.3	1117.9	1109.1	1115.7	1124.6	1126.8	1124.6
62.5°	989.5	1005.0	1011.7	1007.2	1009.5	1005.0	1011.7	1002.8	1013.9	1018.3	1011.7
65°	885.5	903.2	907.6	907.6	907.6	903.2	909.8	912.0	916.5	916.5	912.0
67.5°	796.9	812.4	816.9	821.3	816.9	812.4	812.4	814.6	823.5	827.9	823.5
70°	717.2	732.7	735.0	735.0	737.2	741.6	732.7	737.2	743.8	746.0	743.8
72.5°	648.6	664.1	668.5	666.3	668.5	670.8	670.8	666.3	673.0	677.4	677.4
75°	593.3	602.1	606.6	606.6	608.8	611.0	611.0	608.8	613.2	615.4	617.6
77.5°	542.4	549.0	555.6	555.6	557.9	555.6	560.1	560.1	562.3	564.5	566.7
80°	491.4	500.3	504.7	506.9	511.4	513.6	513.6	513.6	515.8	518.0	518.0
82.5°	451.6	458.2	464.9	471.5	471.5	473.7	473.7	473.7	475.9	475.9	478.2
85°	411.7	420.6	427.2	431.7	433.9	436.1	436.1	438.3	438.3	438.3	440.5
87.5°	376.3	387.4	391.8	396.3	398.5	402.9	402.9	402.9	405.1	405.1	405.1
90°	352.0	363.0	367.5	371.9	374.1	376.3	376.3	378.5	378.5	380.8	380.8
92.5°	323.2	334.3	343.1	343.1	345.3	349.8	347.6	347.6	349.8	352.0	352.0
95°	301.1	309.9	316.6	318.8	321.0	321.0	321.0	323.2	321.0	323.2	323.2
97.5°	274.5	283.4	290.0	294.4	296.6	296.6	296.6	298.9	296.6	298.9	298.9
100°	252.4	261.2	267.9	270.1	274.5	274.5	274.5	274.5	274.5	274.5	276.7
102.5°	234.7	243.5	247.9	250.1	252.4	254.6	254.6	254.6	254.6	256.8	256.8
105°	216.9	225.8	230.2	232.4	234.7	236.9	236.9	236.9	239.1	239.1	236.9
107.5°	201.4	208.1	212.5	216.9	219.2	219.2	221.4	221.4	221.4	221.4	221.4
110°	186.0	192.6	199.2	203.7	203.7	205.9	205.9	208.1	208.1	205.9	208.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	170.5	179.3	183.7	188.2	190.4	192.6	192.6	192.6	192.6	192.6	192.6
115°	157.2	166.0	170.5	174.9	177.1	179.3	179.3	179.3	179.3	179.3	179.3
117.5°	146.1	155.0	159.4	161.6	163.8	166.0	168.2	168.2	168.2	168.2	166.0
120°	135.0	141.7	146.1	150.5	152.7	155.0	155.0	155.0	155.0	155.0	155.0
122.5°	124.0	130.6	135.0	139.5	141.7	143.9	143.9	143.9	143.9	143.9	143.9
125°	112.9	119.5	124.0	128.4	130.6	132.8	132.8	132.8	132.8	132.8	132.8
127.5°	101.8	108.5	115.1	117.3	119.5	121.8	121.8	121.8	124.0	121.8	121.8
130°	90.8	97.4	104.0	106.3	108.5	110.7	112.9	112.9	112.9	112.9	110.7
132.5°	81.9	88.5	93.0	95.2	99.6	99.6	101.8	101.8	101.8	101.8	99.6
135°	75.3	79.7	84.1	86.3	90.8	90.8	90.8	93.0	93.0	90.8	88.5
137.5°	66.4	70.8	75.3	77.5	79.7	81.9	81.9	84.1	81.9	81.9	81.9
140°	62.0	64.2	68.6	70.8	73.1	73.1	73.1	75.3	75.3	73.1	73.1
142.5°	53.1	57.6	62.0	64.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4
145°	44.3	50.9	53.1	57.6	57.6	59.8	59.8	59.8	59.8	59.8	57.6
147.5°	37.6	42.1	48.7	50.9	50.9	53.1	53.1	53.1	53.1	53.1	50.9
150°	28.8	33.2	39.8	44.3	44.3	46.5	46.5	46.5	46.5	44.3	44.3
152.5°	24.4	28.8	31.0	35.4	37.6	37.6	37.6	39.8	37.6	37.6	37.6
155°	22.1	24.4	26.6	28.8	31.0	33.2	33.2	33.2	33.2	31.0	31.0
157.5°	17.7	19.9	22.1	24.4	26.6	28.8	28.8	28.8	28.8	28.8	26.6
160°	13.3	15.5	17.7	17.7	19.9	22.1	24.4	22.1	22.1	22.1	22.1
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-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4015.7	4013.5	4020.1	4009.0	3975.8	3984.7	3980.2	4000.2	4004.6	4009.0	4028.9
5°	4015.7	4013.5	4017.9	4009.0	3973.6	3980.2	3975.8	3995.7	4000.2	4002.4	4022.3
7.5°	4006.8	4004.6	4011.2	4000.2	3962.5	3971.4	3964.7	3984.7	3986.9	3989.1	4006.8
10°	3989.1	3986.9	3991.3	3982.5	3944.8	3953.7	3944.8	3964.7	3964.7	3969.2	3982.5
12.5°	3962.5	3958.1	3967.0	3955.9	3913.8	3924.9	3920.5	3933.8	3936.0	3938.2	3951.5
15°	3924.9	3920.5	3927.1	3920.5	3882.8	3885.1	3878.4	3898.3	3900.6	3896.1	3909.4
17.5°	3869.6	3865.1	3878.4	3874.0	3836.4	3845.2	3843.0	3847.4	3854.1	3843.0	3860.7
20°	3800.9	3805.4	3809.8	3812.0	3783.2	3783.2	3781.0	3789.9	3796.5	3787.7	3800.9
22.5°	3699.1	3710.2	3723.5	3727.9	3708.0	3705.7	3719.0	3714.6	3721.2	3716.8	3725.7
25°	3570.7	3592.8	3606.1	3619.4	3608.3	3612.8	3632.7	3637.1	3637.1	3634.9	3643.8
27.5°	3411.3	3440.1	3464.5	3493.2	3482.2	3491.0	3524.2	3528.6	3537.5	3528.6	3546.4
30°	3220.9	3247.5	3294.0	3336.1	3340.5	3353.8	3400.3	3404.7	3429.0	3420.2	3426.8
32.5°	3030.6	3043.8	3097.0	3139.0	3165.6	3198.8	3249.7	3258.6	3291.8	3298.4	3298.4
35°	2791.5	2829.1	2877.8	2937.6	2970.8	3006.2	3074.8	3088.1	3136.8	3152.3	3170.0
37.5°	2590.0	2625.5	2656.4	2718.4	2778.2	2818.0	2873.4	2906.6	2957.5	2986.3	3008.4
40°	2375.3	2404.1	2437.3	2499.3	2550.2	2610.0	2665.3	2705.1	2769.3	2802.6	2831.3
42.5°	2171.6	2193.8	2229.2	2273.5	2326.6	2393.0	2446.1	2492.6	2561.3	2607.7	2641.0
45°	1990.1	2003.4	2034.4	2067.6	2114.1	2182.7	2233.6	2293.4	2348.7	2397.4	2437.3
47.5°	1819.7	1837.4	1852.9	1875.0	1917.1	1959.1	2018.9	2076.5	2131.8	2184.9	2224.8
50°	1662.5	1662.5	1686.8	1702.3	1731.1	1768.8	1815.2	1855.1	1923.7	1961.3	2012.3
52.5°	1509.7	1518.6	1531.9	1540.7	1562.9	1587.2	1624.9	1658.1	1715.6	1751.0	1799.7
55°	1374.7	1383.6	1390.2	1394.6	1407.9	1436.7	1450.0	1476.5	1516.4	1545.2	1587.2
57.5°	1246.3	1250.7	1257.4	1259.6	1261.8	1279.5	1290.6	1297.2	1337.1	1365.9	1401.3
60°	1129.0	1129.0	1135.6	1133.4	1131.2	1140.1	1137.8	1144.5	1168.8	1186.5	1202.0
62.5°	1018.3	1018.3	1020.5	1016.1	1013.9	1013.9	1005.0	1011.7	1018.3	1020.5	1031.6
65°	916.5	927.5	918.7	920.9	907.6	903.2	898.8	885.5	883.3	874.4	878.8
67.5°	825.7	834.6	825.7	825.7	814.6	805.8	794.7	772.6	765.9	748.2	743.8
70°	752.7	746.0	750.4	743.8	730.5	719.5	704.0	686.2	664.1	642.0	626.5
72.5°	681.8	681.8	677.4	670.8	664.1	642.0	624.3	604.3	577.8	549.0	526.9
75°	613.2	615.4	615.4	608.8	597.7	577.8	557.9	529.1	500.3	467.1	438.3
77.5°	564.5	564.5	564.5	553.4	542.4	524.6	500.3	469.3	438.3	398.5	365.3
80°	518.0	515.8	515.8	502.5	491.4	471.5	447.2	416.2	383.0	340.9	303.3
82.5°	480.4	478.2	473.7	462.7	447.2	427.2	402.9	369.7	334.3	296.6	250.1
85°	440.5	438.3	433.9	422.8	407.3	389.6	363.0	329.8	294.4	252.4	208.1
87.5°	405.1	402.9	396.3	389.6	371.9	352.0	325.4	294.4	256.8	216.9	172.7
90°	380.8	376.3	371.9	363.0	347.6	325.4	298.9	265.6	228.0	188.2	143.9
92.5°	352.0	349.8	343.1	334.3	321.0	298.9	272.3	241.3	203.7	166.0	124.0
95°	323.2	321.0	316.6	307.7	294.4	274.5	250.1	219.2	183.7	146.1	108.5
97.5°	296.6	296.6	290.0	283.4	267.9	252.4	228.0	199.2	166.0	132.8	97.4
100°	274.5	274.5	267.9	259.0	247.9	232.4	208.1	181.5	150.5	119.5	84.1
102.5°	254.6	252.4	247.9	239.1	228.0	212.5	190.4	166.0	137.2	106.3	75.3
105°	236.9	234.7	230.2	221.4	212.5	194.8	177.1	152.7	124.0	95.2	66.4
107.5°	219.2	216.9	214.7	205.9	194.8	179.3	161.6	137.2	112.9	86.3	59.8
110°	203.7	201.4	197.0	188.2	177.1	163.8	146.1	126.2	101.8	77.5	53.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	190.4	188.2	183.7	174.9	166.0	150.5	135.0	112.9	93.0	70.8	46.5
115°	177.1	174.9	170.5	161.6	150.5	137.2	121.8	104.0	81.9	62.0	42.1
117.5°	163.8	161.6	157.2	150.5	139.5	126.2	110.7	93.0	73.1	57.6	37.6
120°	152.7	148.3	143.9	137.2	126.2	115.1	99.6	84.1	66.4	50.9	33.2
122.5°	141.7	137.2	132.8	126.2	115.1	104.0	88.5	75.3	62.0	46.5	31.0
125°	128.4	126.2	121.8	115.1	104.0	93.0	81.9	68.6	55.3	42.1	26.6
127.5°	117.3	115.1	110.7	101.8	93.0	84.1	73.1	62.0	48.7	35.4	24.4
130°	108.5	104.0	99.6	93.0	86.3	77.5	66.4	55.3	44.3	31.0	22.1
132.5°	97.4	93.0	88.5	84.1	77.5	68.6	59.8	48.7	39.8	28.8	19.9
135°	88.5	84.1	79.7	75.3	68.6	62.0	53.1	44.3	35.4	26.6	17.7
137.5°	77.5	75.3	73.1	68.6	62.0	55.3	48.7	37.6	31.0	24.4	15.5
140°	70.8	68.6	66.4	59.8	55.3	48.7	42.1	33.2	26.6	19.9	13.3
142.5°	64.2	62.0	57.6	53.1	48.7	44.3	35.4	31.0	24.4	17.7	13.3
145°	55.3	53.1	50.9	46.5	42.1	35.4	31.0	26.6	22.1	15.5	11.1
147.5°	50.9	48.7	44.3	39.8	35.4	31.0	28.8	24.4	17.7	13.3	8.9
150°	42.1	39.8	37.6	33.2	31.0	28.8	24.4	19.9	15.5	11.1	8.9
152.5°	35.4	33.2	31.0	31.0	26.6	24.4	19.9	17.7	13.3	11.1	6.6
155°	31.0	31.0	28.8	26.6	22.1	19.9	17.7	13.3	11.1	8.9	6.6
157.5°	26.6	24.4	22.1	22.1	19.9	17.7	13.3	11.1	8.9	8.9	6.6
160°	22.1	19.9	19.9	17.7	15.5	13.3	11.1	11.1	8.9	6.6	6.6
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-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4031.2	4006.8	4028.9	4057.7	4057.7	4053.3	4048.9	4057.7	4079.9	4071.0	4044.4
5°	4024.5	4000.2	4020.1	4048.9	4048.9	4042.2	4037.8	4044.4	4068.8	4057.7	4033.4
7.5°	4011.2	3989.1	4002.4	4028.9	4028.9	4022.3	4017.9	4026.7	4046.7	4035.6	4009.0
10°	3986.9	3962.5	3978.0	4002.4	4000.2	3995.7	3989.1	4000.2	4017.9	4002.4	3971.4
12.5°	3955.9	3931.5	3944.8	3967.0	3964.7	3955.9	3951.5	3958.1	3973.6	3964.7	3931.5
15°	3913.8	3889.5	3900.6	3922.7	3916.0	3909.4	3900.6	3902.8	3922.7	3907.2	3871.8
17.5°	3862.9	3836.4	3845.2	3865.1	3858.5	3851.9	3840.8	3843.0	3865.1	3843.0	3805.4
20°	3800.9	3772.2	3778.8	3803.1	3792.1	3781.0	3769.9	3769.9	3792.1	3767.7	3725.7
22.5°	3734.5	3705.7	3710.2	3727.9	3719.0	3699.1	3688.0	3694.7	3705.7	3674.8	3630.5
25°	3652.6	3615.0	3621.6	3639.3	3632.7	3606.1	3595.1	3599.5	3595.1	3570.7	3524.2
27.5°	3557.4	3517.6	3522.0	3533.1	3524.2	3499.9	3486.6	3488.8	3479.9	3449.0	3395.8
30°	3437.9	3418.0	3415.7	3422.4	3409.1	3384.8	3369.3	3364.8	3362.6	3318.3	3254.1
32.5°	3316.1	3298.4	3287.4	3296.2	3280.7	3256.4	3229.8	3229.8	3207.7	3165.6	3110.3
35°	3192.2	3163.4	3152.3	3159.0	3141.3	3110.3	3088.1	3077.1	3043.8	2990.7	2930.9
37.5°	3032.8	3012.9	2999.6	3006.2	2986.3	2964.2	2922.1	2911.0	2875.6	2802.6	2727.3
40°	2860.1	2844.6	2831.3	2838.0	2815.8	2782.6	2745.0	2727.3	2687.4	2605.5	2545.8
42.5°	2674.2	2667.5	2652.0	2676.4	2632.1	2598.9	2561.3	2532.5	2492.6	2404.1	2335.5
45°	2477.1	2492.6	2457.2	2463.9	2435.1	2406.3	2366.5	2324.4	2284.5	2200.4	2122.9
47.5°	2269.0	2280.1	2255.8	2260.2	2229.2	2202.6	2167.2	2114.1	2069.8	1996.8	1928.1
50°	2054.3	2049.9	2049.9	2045.5	2021.1	1987.9	1952.5	1903.8	1859.5	1793.1	1735.5
52.5°	1826.3	1835.2	1839.6	1850.7	1819.7	1799.7	1744.4	1702.3	1669.1	1600.5	1551.8
55°	1607.2	1638.1	1629.3	1633.7	1598.3	1582.8	1538.5	1505.3	1456.6	1416.8	1385.8
57.5°	1407.9	1414.6	1419.0	1425.6	1410.1	1379.1	1343.7	1317.2	1279.5	1246.3	1224.2
60°	1215.3	1215.3	1217.5	1228.6	1213.1	1186.5	1160.0	1140.1	1113.5	1093.6	1080.3
62.5°	1033.8	1049.3	1051.5	1042.7	1022.7	1009.5	991.7	980.7	963.0	956.3	951.9
65°	865.6	865.6	865.6	870.0	858.9	850.1	839.0	836.8	843.4	834.6	839.0
67.5°	723.9	717.2	712.8	715.0	710.6	706.2	704.0	710.6	723.9	723.9	735.0
70°	602.1	588.8	580.0	580.0	580.0	582.2	588.8	602.1	624.3	633.1	648.6
72.5°	502.5	473.7	460.5	460.5	462.7	471.5	491.4	515.8	535.7	553.4	573.4
75°	407.3	378.5	358.6	356.4	360.8	374.1	402.9	425.0	458.2	482.6	506.9
77.5°	329.8	294.4	270.1	267.9	274.5	294.4	329.8	358.6	396.3	422.8	449.4
80°	263.4	223.6	203.7	190.4	201.4	225.8	265.6	301.1	336.5	371.9	405.1
82.5°	210.3	172.7	141.7	128.4	141.7	174.9	212.5	254.6	290.0	327.6	360.8
85°	166.0	126.2	90.8	77.5	93.0	128.4	170.5	212.5	252.4	290.0	323.2
87.5°	130.6	90.8	55.3	37.6	57.6	95.2	135.0	177.1	219.2	256.8	290.0
90°	101.8	64.2	31.0	4.4	33.2	68.6	108.5	148.3	190.4	228.0	261.2
92.5°	86.3	48.7	17.7	0.0	19.9	50.9	88.5	128.4	166.0	203.7	236.9
95°	73.1	39.8	13.3	0.0	13.3	39.8	73.1	108.5	146.1	183.7	216.9
97.5°	62.0	31.0	8.9	0.0	8.9	31.0	59.8	95.2	128.4	163.8	194.8
100°	53.1	26.6	6.6	0.0	6.6	24.4	50.9	81.9	115.1	148.3	177.1
102.5°	46.5	22.1	4.4	0.0	4.4	19.9	42.1	70.8	99.6	130.6	159.4
105°	39.8	17.7	4.4	0.0	2.2	15.5	35.4	62.0	88.5	117.3	143.9
107.5°	35.4	15.5	4.4	0.0	2.2	13.3	31.0	53.1	79.7	104.0	128.4
110°	31.0	13.3	4.4	0.0	2.2	8.9	26.6	46.5	68.6	93.0	117.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	26.6	11.1	2.2	0.0	0.0	6.6	22.1	39.8	59.8	84.1	104.0
115°	24.4	11.1	2.2	0.0	0.0	4.4	17.7	35.4	53.1	75.3	93.0
117.5°	22.1	8.9	2.2	0.0	2.2	4.4	15.5	31.0	46.5	64.2	84.1
120°	19.9	8.9	2.2	0.0	2.2	2.2	11.1	26.6	39.8	57.6	73.1
122.5°	17.7	8.9	2.2	0.0	2.2	2.2	8.9	22.1	35.4	50.9	64.2
125°	15.5	6.6	4.4	2.2	2.2	2.2	6.6	17.7	31.0	42.1	57.6
127.5°	15.5	6.6	4.4	2.2	2.2	2.2	4.4	15.5	24.4	37.6	50.9
130°	13.3	6.6	4.4	2.2	2.2	2.2	2.2	11.1	22.1	31.0	42.1
132.5°	11.1	6.6	4.4	2.2	2.2	2.2	2.2	6.6	15.5	26.6	35.4
135°	11.1	6.6	4.4	2.2	2.2	2.2	2.2	4.4	11.1	19.9	28.8
137.5°	8.9	4.4	4.4	2.2	2.2	2.2	2.2	2.2	8.9	15.5	22.1
140°	8.9	4.4	4.4	2.2	2.2	2.2	2.2	2.2	6.6	11.1	17.7
142.5°	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2	4.4	8.9	13.3
145°	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	8.9
147.5°	6.6	6.6	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.6
150°	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4
152.5°	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4
155°	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
157.5°	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4
160°	6.6	4.4	4.4	2.2	4.4	2.2	4.4	4.4	4.4	4.4	4.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4035.6	3993.5	4015.7	4009.0	4017.9	4035.6	4033.4	4028.9	4028.9	4022.3	4013.5
5°	4022.3	3982.5	4002.4	3991.3	4002.4	4017.9	4015.7	4009.0	4013.5	4002.4	3991.3
7.5°	3995.7	3960.3	3978.0	3969.2	3978.0	3993.5	3986.9	3984.7	3989.1	3971.4	3964.7
10°	3964.7	3924.9	3944.8	3933.8	3944.8	3955.9	3951.5	3942.6	3951.5	3933.8	3927.1
12.5°	3916.0	3882.8	3896.1	3891.7	3898.3	3909.4	3900.6	3893.9	3898.3	3882.8	3869.6
15°	3862.9	3829.7	3840.8	3834.1	3838.6	3851.9	3836.4	3834.1	3829.7	3814.2	3809.8
17.5°	3794.3	3763.3	3774.4	3763.3	3769.9	3765.5	3763.3	3752.2	3752.2	3734.5	3721.2
20°	3710.2	3683.6	3677.0	3668.1	3677.0	3668.1	3654.8	3646.0	3643.8	3626.1	3615.0
22.5°	3612.8	3581.8	3586.2	3561.9	3564.1	3550.8	3528.6	3519.8	3510.9	3491.0	3475.5
25°	3495.4	3464.5	3442.3	3426.8	3406.9	3404.7	3375.9	3353.8	3351.6	3327.2	3325.0
27.5°	3362.6	3327.2	3309.5	3271.9	3247.5	3227.6	3203.2	3181.1	3170.0	3143.5	3125.8
30°	3209.9	3170.0	3125.8	3099.2	3061.6	3046.1	3004.0	2977.4	2968.6	2939.8	2926.5
32.5°	3037.2	2995.1	2959.7	2908.8	2866.8	2844.6	2802.6	2776.0	2764.9	2733.9	2716.2
35°	2849.0	2802.6	2760.5	2711.8	2678.6	2641.0	2590.0	2563.5	2539.1	2528.1	2514.8
37.5°	2652.0	2601.1	2552.4	2503.7	2474.9	2430.7	2386.4	2368.7	2339.9	2328.8	2315.5
40°	2448.4	2397.4	2351.0	2304.5	2271.3	2231.4	2191.6	2184.9	2153.9	2142.9	2134.0
42.5°	2246.9	2193.8	2140.7	2107.4	2083.1	2043.3	2016.7	2010.0	1983.5	1976.8	1976.8
45°	2065.4	1999.0	1954.7	1925.9	1906.0	1872.8	1850.7	1846.2	1824.1	1819.7	1819.7
47.5°	1870.6	1808.6	1775.4	1757.7	1740.0	1715.6	1702.3	1702.3	1680.2	1675.8	1673.6
50°	1689.1	1631.5	1607.2	1589.4	1587.2	1569.5	1558.4	1554.0	1554.0	1538.5	1540.7
52.5°	1516.4	1487.6	1467.7	1456.6	1443.3	1432.3	1423.4	1423.4	1416.8	1405.7	1410.1
55°	1357.0	1323.8	1326.0	1317.2	1310.5	1303.9	1306.1	1292.8	1290.6	1281.7	1288.4
57.5°	1197.6	1197.6	1193.2	1186.5	1175.5	1179.9	1179.9	1179.9	1168.8	1162.2	1168.8
60°	1062.6	1069.2	1058.2	1064.8	1060.4	1062.6	1058.2	1058.2	1051.5	1049.3	1051.5
62.5°	943.0	954.1	949.7	958.5	954.1	956.3	960.7	951.9	947.5	943.0	947.5
65°	836.8	850.1	847.8	854.5	856.7	858.9	861.1	856.7	852.3	847.8	845.6
67.5°	743.8	757.1	765.9	768.2	770.4	777.0	774.8	770.4	765.9	759.3	757.1
70°	659.7	677.4	688.5	692.9	701.7	697.3	697.3	695.1	690.7	684.0	681.8
72.5°	588.8	608.8	619.8	624.3	633.1	633.1	630.9	628.7	624.3	617.6	615.4
75°	526.9	544.6	560.1	568.9	575.6	575.6	573.4	571.1	566.7	562.3	560.1
77.5°	478.2	493.7	506.9	518.0	522.4	524.6	522.4	518.0	518.0	515.8	513.6
80°	429.5	447.2	460.5	471.5	478.2	478.2	475.9	478.2	473.7	471.5	469.3
82.5°	387.4	407.3	422.8	433.9	438.3	440.5	438.3	440.5	436.1	436.1	436.1
85°	349.8	369.7	387.4	396.3	402.9	405.1	405.1	405.1	402.9	402.9	402.9
87.5°	318.8	338.7	356.4	365.3	371.9	374.1	374.1	376.3	371.9	371.9	371.9
90°	290.0	309.9	327.6	336.5	343.1	347.6	347.6	349.8	347.6	345.3	345.3
92.5°	263.4	285.6	303.3	312.1	318.8	325.4	325.4	327.6	323.2	323.2	323.2
95°	241.3	263.4	278.9	290.0	296.6	301.1	303.3	303.3	301.1	301.1	301.1
97.5°	221.4	241.3	256.8	267.9	274.5	276.7	278.9	281.1	278.9	278.9	278.9
100°	201.4	221.4	236.9	245.7	254.6	256.8	259.0	261.2	261.2	259.0	259.0
102.5°	183.7	203.7	216.9	228.0	234.7	239.1	241.3	241.3	241.3	241.3	241.3
105°	166.0	186.0	199.2	210.3	216.9	221.4	223.6	225.8	225.8	223.6	223.6
107.5°	150.5	168.2	183.7	192.6	201.4	205.9	208.1	208.1	210.3	208.1	208.1
110°	135.0	155.0	168.2	177.1	186.0	190.4	192.6	194.8	194.8	194.8	194.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.0	139.5	152.7	161.6	170.5	174.9	177.1	179.3	181.5	179.3	179.3
115°	110.7	126.2	139.5	148.3	155.0	159.4	163.8	166.0	166.0	168.2	166.0
117.5°	99.6	112.9	126.2	135.0	141.7	148.3	150.5	152.7	155.0	152.7	152.7
120°	88.5	101.8	112.9	121.8	128.4	135.0	137.2	139.5	141.7	139.5	139.5
122.5°	79.7	90.8	101.8	110.7	117.3	121.8	126.2	126.2	128.4	128.4	128.4
125°	70.8	81.9	90.8	99.6	106.3	110.7	112.9	115.1	115.1	117.3	117.3
127.5°	62.0	70.8	81.9	88.5	95.2	99.6	101.8	104.0	104.0	106.3	106.3
130°	53.1	62.0	70.8	77.5	84.1	88.5	90.8	93.0	95.2	95.2	95.2
132.5°	46.5	55.3	62.0	68.6	73.1	77.5	81.9	84.1	84.1	84.1	84.1
135°	37.6	46.5	53.1	59.8	64.2	68.6	70.8	75.3	75.3	75.3	75.3
137.5°	31.0	39.8	46.5	50.9	55.3	59.8	62.0	64.2	66.4	66.4	66.4
140°	24.4	31.0	37.6	44.3	48.7	50.9	55.3	55.3	57.6	57.6	57.6
142.5°	17.7	24.4	28.8	35.4	39.8	44.3	46.5	48.7	48.7	48.7	48.7
145°	13.3	17.7	22.1	26.6	33.2	35.4	37.6	39.8	42.1	42.1	42.1
147.5°	8.9	13.3	15.5	19.9	24.4	28.8	31.0	33.2	35.4	35.4	35.4
150°	6.6	8.9	13.3	15.5	17.7	22.1	26.6	26.6	28.8	28.8	26.6
152.5°	4.4	6.6	8.9	11.1	13.3	15.5	19.9	19.9	22.1	22.1	22.1
155°	4.4	4.4	4.4	6.6	8.9	11.1	13.3	15.5	15.5	15.5	15.5
157.5°	4.4	4.4	4.4	4.4	4.4	6.6	8.9	11.1	11.1	11.1	11.1
160°	4.4	4.4	2.2	2.2	4.4	4.4	4.4	4.4	6.6	6.6	6.6
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-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4020.1	4024.5	4024.5	4020.1	4017.9	4026.7	4015.7	3973.6	3986.9	3991.3	4004.6
5°	4000.2	4004.6	4004.6	4004.6	4000.2	4009.0	3998.0	3955.9	3971.4	3978.0	3986.9
7.5°	3971.4	3973.6	3978.0	3975.8	3971.4	3984.7	3973.6	3931.5	3942.6	3953.7	3964.7
10°	3933.8	3933.8	3936.0	3940.4	3936.0	3947.0	3936.0	3898.3	3909.4	3916.0	3929.3
12.5°	3882.8	3887.3	3889.5	3887.3	3885.1	3893.9	3889.5	3854.1	3858.5	3871.8	3885.1
15°	3814.2	3814.2	3825.3	3820.9	3820.9	3829.7	3834.1	3794.3	3800.9	3820.9	3834.1
17.5°	3730.1	3732.3	3741.2	3745.6	3743.4	3758.9	3761.1	3730.1	3727.9	3752.2	3765.5
20°	3621.6	3626.1	3637.1	3646.0	3646.0	3663.7	3670.3	3650.4	3652.6	3679.2	3683.6
22.5°	3488.8	3488.8	3508.7	3522.0	3533.1	3544.1	3564.1	3546.4	3546.4	3581.8	3601.7
25°	3325.0	3340.5	3347.1	3373.7	3389.2	3420.2	3437.9	3440.1	3442.3	3475.5	3488.8
27.5°	3143.5	3147.9	3167.8	3198.8	3216.5	3245.3	3278.5	3285.1	3296.2	3340.5	3360.4
30°	2937.6	2950.9	2959.7	3004.0	3028.4	3066.0	3108.0	3123.5	3132.4	3192.2	3216.5
32.5°	2727.3	2731.7	2769.3	2793.7	2822.5	2862.3	2911.0	2939.8	2957.5	3019.5	3054.9
35°	2517.0	2525.8	2556.8	2587.8	2616.6	2656.4	2707.4	2747.2	2778.2	2833.5	2880.0
37.5°	2324.4	2346.5	2353.2	2384.2	2406.3	2446.1	2481.6	2539.1	2570.1	2627.7	2687.4
40°	2151.7	2158.4	2162.8	2193.8	2209.3	2246.9	2297.8	2335.5	2377.5	2419.6	2490.4
42.5°	1981.3	1985.7	1992.3	2010.0	2027.8	2054.3	2092.0	2129.6	2173.9	2235.8	2282.3
45°	1824.1	1828.5	1832.9	1844.0	1859.5	1883.9	1908.2	1934.8	1979.1	2032.2	2080.9
47.5°	1678.0	1686.8	1686.8	1689.1	1700.1	1720.1	1737.8	1771.0	1795.3	1824.1	1879.4
50°	1538.5	1545.2	1547.4	1547.4	1554.0	1567.3	1571.7	1593.9	1616.0	1642.6	1682.4
52.5°	1407.9	1407.9	1405.7	1414.6	1414.6	1423.4	1425.6	1438.9	1454.4	1483.2	1500.9
55°	1284.0	1284.0	1290.6	1286.2	1286.2	1290.6	1288.4	1290.6	1303.9	1321.6	1337.1
57.5°	1164.4	1162.2	1168.8	1164.4	1162.2	1166.6	1171.1	1162.2	1164.4	1182.1	1182.1
60°	1044.9	1047.1	1053.7	1049.3	1049.3	1049.3	1044.9	1040.4	1036.0	1047.1	1051.5
62.5°	949.7	943.0	949.7	943.0	947.5	945.3	940.8	932.0	934.2	929.8	925.3
65°	850.1	850.1	852.3	845.6	850.1	850.1	843.4	841.2	827.9	823.5	812.4
67.5°	763.7	763.7	765.9	761.5	761.5	763.7	757.1	750.4	737.2	730.5	715.0
70°	688.5	688.5	688.5	686.2	686.2	686.2	681.8	673.0	659.7	648.6	628.7
72.5°	619.8	622.1	619.8	619.8	626.5	619.8	613.2	604.3	593.3	571.1	553.4
75°	564.5	566.7	564.5	564.5	564.5	562.3	560.1	546.8	533.5	515.8	489.2
77.5°	515.8	515.8	518.0	515.8	515.8	513.6	506.9	495.9	480.4	464.9	433.9
80°	469.3	471.5	473.7	475.9	471.5	469.3	462.7	453.8	433.9	416.2	385.2
82.5°	436.1	433.9	436.1	438.3	433.9	431.7	425.0	414.0	398.5	374.1	343.1
85°	402.9	400.7	400.7	402.9	400.7	396.3	389.6	378.5	363.0	338.7	307.7
87.5°	369.7	371.9	374.1	371.9	369.7	365.3	358.6	347.6	329.8	309.9	276.7
90°	345.3	345.3	345.3	345.3	343.1	338.7	332.1	318.8	303.3	278.9	250.1
92.5°	323.2	323.2	323.2	323.2	321.0	314.3	307.7	296.6	278.9	254.6	228.0
95°	301.1	303.3	301.1	301.1	296.6	294.4	283.4	272.3	256.8	232.4	203.7
97.5°	276.7	278.9	276.7	276.7	274.5	270.1	263.4	250.1	234.7	212.5	186.0
100°	259.0	259.0	256.8	256.8	254.6	250.1	241.3	230.2	214.7	192.6	166.0
102.5°	239.1	241.3	239.1	239.1	234.7	230.2	223.6	212.5	197.0	174.9	150.5
105°	223.6	223.6	221.4	221.4	216.9	212.5	205.9	192.6	179.3	159.4	135.0
107.5°	208.1	208.1	205.9	205.9	201.4	197.0	188.2	177.1	163.8	143.9	121.8
110°	192.6	192.6	192.6	190.4	186.0	179.3	172.7	161.6	148.3	130.6	108.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	181.5	179.3	177.1	174.9	170.5	166.0	157.2	146.1	132.8	117.3	97.4
115°	166.0	166.0	163.8	161.6	157.2	150.5	143.9	135.0	121.8	104.0	86.3
117.5°	152.7	152.7	150.5	148.3	143.9	137.2	130.6	121.8	108.5	93.0	77.5
120°	139.5	139.5	137.2	135.0	130.6	124.0	119.5	108.5	97.4	81.9	68.6
122.5°	128.4	126.2	126.2	121.8	119.5	112.9	106.3	97.4	86.3	73.1	59.8
125°	115.1	115.1	112.9	110.7	108.5	101.8	95.2	86.3	75.3	64.2	53.1
127.5°	104.0	104.0	101.8	99.6	97.4	90.8	84.1	77.5	66.4	55.3	44.3
130°	93.0	93.0	90.8	88.5	86.3	79.7	75.3	66.4	57.6	48.7	37.6
132.5°	84.1	84.1	81.9	79.7	75.3	70.8	66.4	57.6	50.9	42.1	33.2
135°	75.3	73.1	73.1	70.8	66.4	62.0	57.6	50.9	42.1	35.4	26.6
137.5°	66.4	64.2	62.0	59.8	57.6	53.1	48.7	44.3	37.6	28.8	22.1
140°	57.6	55.3	55.3	53.1	48.7	46.5	42.1	35.4	31.0	24.4	17.7
142.5°	48.7	48.7	46.5	44.3	42.1	39.8	35.4	31.0	24.4	19.9	13.3
145°	42.1	39.8	39.8	37.6	35.4	31.0	28.8	24.4	19.9	15.5	11.1
147.5°	33.2	33.2	33.2	31.0	28.8	26.6	24.4	19.9	15.5	11.1	6.6
150°	26.6	26.6	26.6	24.4	22.1	19.9	17.7	15.5	11.1	6.6	4.4
152.5°	22.1	22.1	19.9	19.9	17.7	15.5	13.3	11.1	6.6	4.4	4.4
155°	15.5	15.5	15.5	13.3	13.3	11.1	8.9	6.6	4.4	4.4	4.4
157.5°	11.1	11.1	11.1	8.9	8.9	6.6	6.6	4.4	4.4	4.4	4.4
160°	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	3998.0	3995.7	4013.5	4013.5	3993.5	4024.5	4057.7
5°	3984.7	3982.5	4000.2	4000.2	3982.5	4013.5	4048.9
7.5°	3958.1	3960.3	3978.0	3982.5	3960.3	3989.1	4026.7
10°	3929.3	3927.1	3947.0	3951.5	3933.8	3960.3	3995.7
12.5°	3882.8	3882.8	3902.8	3909.4	3891.7	3922.7	3955.9
15°	3834.1	3834.1	3847.4	3858.5	3843.0	3871.8	3905.0
17.5°	3772.2	3769.9	3783.2	3796.5	3781.0	3812.0	3847.4
20°	3692.5	3692.5	3708.0	3723.5	3712.4	3741.2	3781.0
22.5°	3608.3	3599.5	3626.1	3637.1	3630.5	3659.3	3699.1
25°	3502.1	3499.9	3526.4	3541.9	3533.1	3564.1	3599.5
27.5°	3387.0	3384.8	3411.3	3431.2	3426.8	3455.6	3495.4
30°	3247.5	3258.6	3282.9	3316.1	3305.1	3336.1	3378.1
32.5°	3101.4	3112.5	3141.3	3176.7	3178.9	3203.2	3245.3
35°	2926.5	2955.3	2975.2	3021.7	3030.6	3054.9	3099.2
37.5°	2742.8	2776.0	2818.0	2853.5	2871.2	2891.1	2942.0
40°	2536.9	2585.6	2632.1	2674.2	2696.3	2716.2	2764.9
42.5°	2351.0	2388.6	2432.9	2474.9	2514.8	2532.5	2583.4
45°	2140.7	2184.9	2224.8	2275.7	2315.5	2335.5	2386.4
47.5°	1934.8	1979.1	2032.2	2067.6	2109.7	2129.6	2178.3
50°	1737.8	1777.6	1821.9	1863.9	1899.4	1917.1	1959.1
52.5°	1543.0	1585.0	1627.1	1653.6	1691.3	1704.6	1740.0
55°	1370.3	1399.1	1436.7	1452.2	1489.8	1498.7	1523.0
57.5°	1204.3	1224.2	1237.5	1264.0	1290.6	1310.5	1339.3
60°	1053.7	1062.6	1071.4	1086.9	1109.1	1115.7	1126.8
62.5°	918.7	916.5	934.2	938.6	940.8	963.0	951.9
65°	799.1	801.4	785.9	779.2	788.1	794.7	790.3
67.5°	699.5	686.2	673.0	657.5	644.2	650.8	644.2
70°	602.1	591.1	568.9	546.8	537.9	524.6	518.0
72.5°	524.6	498.1	475.9	447.2	431.7	416.2	405.1
75°	464.9	427.2	396.3	365.3	343.1	321.0	316.6
77.5°	402.9	367.5	332.1	298.9	265.6	241.3	232.4
80°	354.2	321.0	278.9	239.1	203.7	172.7	161.6
82.5°	309.9	274.5	232.4	190.4	150.5	117.3	104.0
85°	272.3	234.7	192.6	150.5	110.7	75.3	57.6
87.5°	243.5	201.4	159.4	119.5	77.5	42.1	22.1
90°	216.9	177.1	137.2	95.2	55.3	22.1	0.0
92.5°	192.6	155.0	115.1	77.5	42.1	13.3	2.2
95°	170.5	137.2	97.4	62.0	31.0	8.9	2.2
97.5°	152.7	119.5	84.1	50.9	24.4	6.6	2.2
100°	137.2	104.0	73.1	42.1	19.9	4.4	2.2
102.5°	121.8	93.0	62.0	35.4	15.5	2.2	2.2
105°	108.5	81.9	53.1	31.0	13.3	2.2	2.2
107.5°	97.4	73.1	46.5	26.6	8.9	2.2	2.2
110°	86.3	62.0	39.8	22.1	6.6	2.2	2.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	77.5	55.3	35.4	17.7	4.4	2.2	2.2
115°	68.6	48.7	31.0	15.5	4.4	2.2	2.2
117.5°	59.8	42.1	26.6	11.1	2.2	2.2	2.2
120°	53.1	37.6	22.1	8.9	2.2	2.2	2.2
122.5°	46.5	31.0	17.7	6.6	2.2	2.2	2.2
125°	39.8	26.6	15.5	4.4	2.2	2.2	2.2
127.5°	33.2	22.1	11.1	4.4	2.2	2.2	2.2
130°	28.8	17.7	8.9	2.2	2.2	2.2	2.2
132.5°	24.4	13.3	6.6	2.2	2.2	2.2	2.2
135°	19.9	11.1	4.4	2.2	2.2	2.2	2.2
137.5°	15.5	8.9	4.4	2.2	2.2	2.2	2.2
140°	11.1	6.6	2.2	2.2	2.2	2.2	2.2
142.5°	8.9	4.4	2.2	2.2	2.2	2.2	2.2
145°	6.6	4.4	2.2	2.2	2.2	2.2	2.2
147.5°	4.4	4.4	4.4	4.4	2.2	2.2	2.2
150°	4.4	4.4	2.2	2.2	4.4	2.2	2.2
152.5°	4.4	2.2	2.2	2.2	4.4	2.2	2.2
155°	4.4	4.4	4.4	4.4	4.4	4.4	2.2
157.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
160°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)