

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-LD5-170HL-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-LD5-170HL-LN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

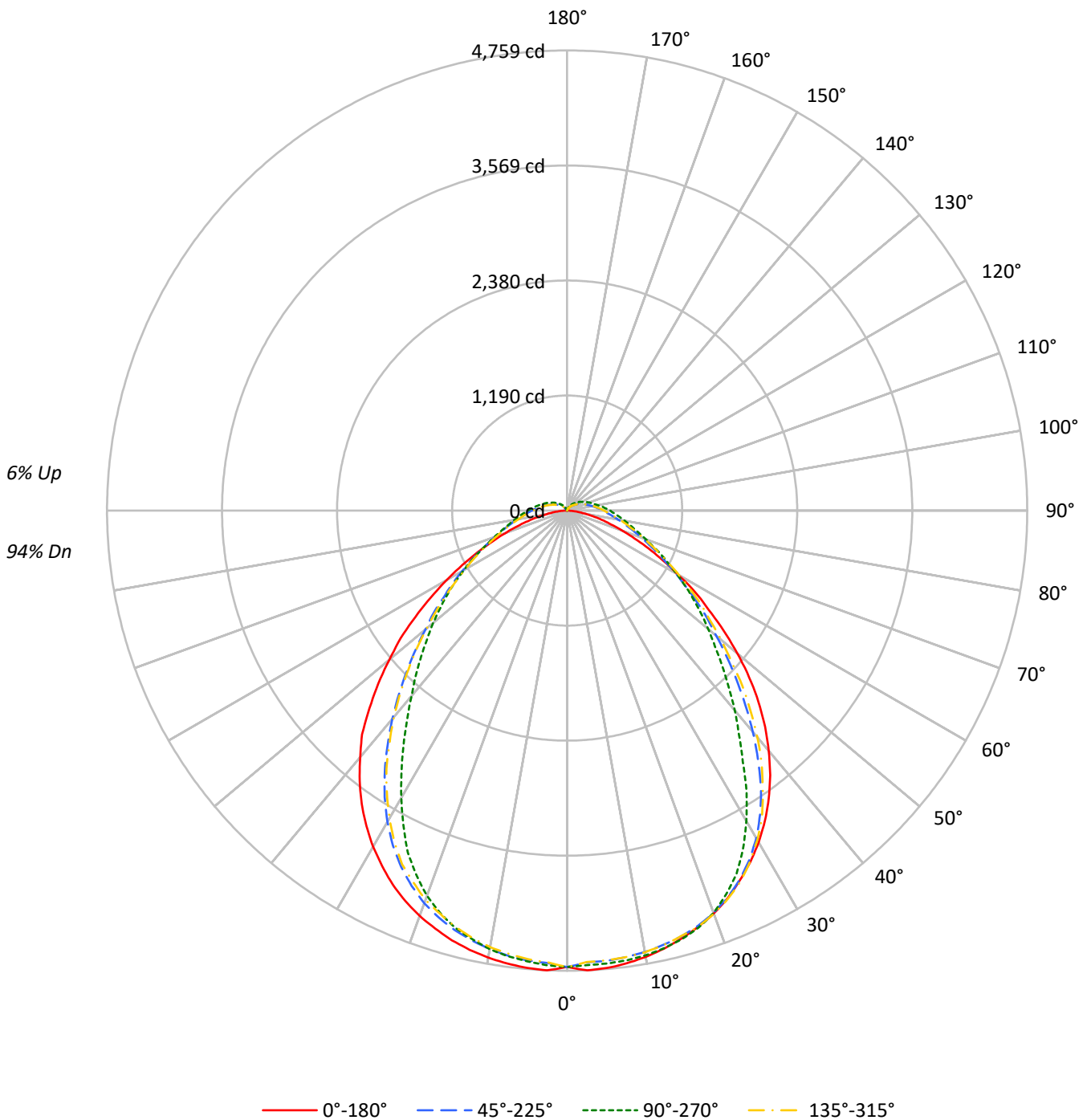
Lumens per Lamp: N/A
Luminaire Lumens: 11946.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 124
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°	19073	19073	19073	19073
5°	19235	18465	19235	18384
10°	19176	17975	19207	17725
15°	19079	17437	19166	16984
20°	18961	16747	19072	16040
25°	18686	15723	18893	14797
30°	18321	14217	18561	13162
35°	17736	12373	18078	11521
40°	16884	10821	17330	10040
45°	15748	9406	16259	8867
50°	14180	8266	14805	7848
55°	12309	7299	13204	6930
60°	10398	6408	11338	6040
65°	8574	5666	9439	5253
70°	6883	5028	7706	4651
75°	5477	4643	6166	4271
80°	4050	4480	4773	4093
85°	2655	4505	3576	4141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	3.7
10°-20°	1283.2	10.7
20°-30°	1901.8	15.9
30°-40°	2112.8	17.7
40°-50°	1915.3	16.0
50°-60°	1484.1	12.4
60°-70°	1007.8	8.4
70°-80°	641.2	5.4
80°-90°	409.9	3.4
90°-100°	276.4	2.3
100°-110°	189.3	1.6
110°-120°	126.3	1.1
120°-130°	78.6	0.7
130°-140°	43.4	0.4
140°-150°	20.4	0.2
150°-160°	7.5	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	3632.5	30.4
0°-40°	5745.4	48.1
0°-60°	9144.8	76.6
0°-90°	11203.7	93.8
90°-120°	592.0	5.0
90°-150°	734.4	6.1
90°-180°	742.0	6.2
0°-180°	11946.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4720	4720	4720	4720	4720	
5°	4749	4702	4749	4681	4749	451
15°	4580	4588	4601	4468	4580	1293
25°	4222	4144	4269	3900	4222	1944
35°	3635	3168	3705	2950	3635	2268
45°	2799	2264	2890	2134	2799	2150
55°	1786	1592	1916	1511	1786	1608
65°	927	1070	1020	992	927	929
75°	371	714	418	657	371	400
85°	68	514	91	473	68	81
90°	0	444	5	405	0	4
95°	3	379	0	353	3	2
105°	3	278	0	262	3	3
115°	3	210	0	195	3	3
125°	3	156	3	138	3	2
135°	3	109	3	88	3	2
145°	3	70	3	49	3	2
155°	3	39	3	18	3	2
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-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4759.3	4754.1	4748.9	4741.1	4748.9	4769.7	4756.7	4728.2	4723.0	4676.2	4697.0
5°	4748.9	4741.1	4735.9	4728.2	4738.5	4764.5	4751.5	4725.6	4717.8	4673.6	4697.0
7.5°	4723.0	4717.8	4710.0	4710.0	4720.4	4746.3	4735.9	4707.4	4702.2	4658.0	4684.0
10°	4686.6	4684.0	4678.8	4678.8	4689.2	4720.4	4707.4	4681.4	4676.2	4634.7	4663.2
12.5°	4639.9	4642.5	4634.7	4634.7	4650.3	4681.4	4671.0	4642.5	4637.3	4600.9	4629.5
15°	4580.2	4582.8	4577.6	4580.2	4595.7	4632.1	4619.1	4593.1	4587.9	4559.4	4582.8
17.5°	4512.6	4515.2	4515.2	4512.6	4530.8	4567.2	4556.8	4533.4	4525.6	4502.3	4530.8
20°	4434.8	4434.8	4434.8	4434.8	4455.5	4491.9	4478.9	4460.7	4445.1	4427.0	4450.3
22.5°	4338.7	4336.1	4338.7	4346.5	4367.2	4395.8	4388.0	4367.2	4343.9	4333.5	4351.7
25°	4221.8	4229.6	4232.2	4240.0	4266.0	4289.4	4281.6	4260.8	4224.4	4216.7	4221.8
27.5°	4099.8	4105.0	4112.8	4110.2	4146.5	4169.9	4154.3	4136.2	4084.2	4076.4	4071.2
30°	3962.2	3970.0	3975.2	3972.6	4001.1	4027.1	4011.5	3988.2	3918.1	3912.9	3871.3
32.5°	3806.4	3814.2	3819.4	3819.4	3860.9	3871.3	3842.8	3809.0	3733.7	3715.5	3679.2
35°	3635.0	3642.8	3645.4	3645.4	3687.0	3684.4	3648.0	3601.3	3518.2	3494.8	3432.5
37.5°	3450.7	3455.9	3458.5	3474.1	3492.2	3476.7	3429.9	3370.2	3307.9	3243.0	3175.5
40°	3243.0	3250.8	3256.0	3266.3	3284.5	3266.3	3198.8	3126.1	3058.6	2985.9	2918.4
42.5°	3030.1	3053.4	3048.2	3045.6	3056.0	3006.7	2954.8	2871.7	2804.2	2728.9	2661.4
45°	2799.0	2796.4	2809.4	2814.6	2812.0	2770.4	2697.7	2622.4	2554.9	2477.0	2419.9
47.5°	2554.9	2552.3	2562.7	2567.9	2552.3	2508.2	2451.1	2365.4	2308.3	2240.7	2196.6
50°	2297.9	2297.9	2313.4	2297.9	2290.1	2245.9	2199.2	2113.5	2069.4	2009.7	1983.7
52.5°	2040.8	2064.2	2048.6	2043.4	2035.6	1991.5	1955.1	1885.0	1848.7	1822.7	1791.6
55°	1786.4	1812.3	1801.9	1794.2	1791.6	1755.2	1721.5	1669.5	1646.2	1628.0	1609.8
57.5°	1570.9	1568.3	1563.1	1555.3	1557.9	1529.3	1495.6	1467.0	1456.6	1448.8	1454.0
60°	1321.6	1342.4	1334.6	1337.2	1339.8	1334.6	1306.0	1287.8	1290.4	1293.0	1300.8
62.5°	1116.5	1134.7	1147.6	1137.2	1142.4	1150.2	1134.7	1129.5	1139.8	1150.2	1160.6
65°	926.9	945.1	958.1	955.5	971.1	986.7	984.1	989.3	1012.6	1025.6	1038.6
67.5°	755.6	773.7	791.9	794.5	817.9	841.3	851.6	869.8	895.8	914.0	929.5
70°	607.6	623.2	643.9	656.9	688.1	719.2	737.4	773.7	789.3	815.3	825.7
72.5°	475.2	488.1	516.7	547.9	573.8	612.8	649.1	680.3	703.6	732.2	745.2
75°	371.3	376.5	407.6	444.0	480.3	524.5	563.4	597.2	628.3	656.9	677.7
77.5°	272.6	280.4	309.0	358.3	399.9	446.6	490.7	527.1	560.8	589.4	618.0
80°	189.5	205.1	236.3	285.6	332.3	384.3	425.8	467.4	503.7	532.3	560.8
82.5°	122.0	135.0	179.2	228.5	277.8	329.8	373.9	415.4	454.4	485.5	511.5
85°	67.5	85.7	129.8	181.8	231.1	283.0	329.8	371.3	410.2	438.8	464.8
87.5°	26.0	51.9	93.5	142.8	192.1	241.5	290.8	329.8	368.7	399.9	423.2
90°	0.0	31.2	70.1	119.4	168.8	218.1	264.8	306.4	342.7	371.3	397.3
92.5°	2.6	20.8	54.5	96.1	142.8	189.5	233.7	275.2	311.6	340.1	363.5
95°	2.6	15.6	44.1	83.1	124.6	168.8	210.3	249.3	283.0	311.6	334.9
97.5°	2.6	10.4	36.4	72.7	109.1	153.2	192.1	228.5	259.6	288.2	306.4
100°	2.6	10.4	31.2	62.3	98.7	137.6	174.0	210.3	238.9	262.2	283.0
102.5°	2.6	7.8	26.0	54.5	88.3	122.0	158.4	192.1	218.1	241.5	262.2
105°	2.6	7.8	23.4	46.7	77.9	111.6	142.8	174.0	202.5	223.3	241.5
107.5°	2.6	5.2	20.8	38.9	67.5	101.3	132.4	158.4	184.3	205.1	223.3
110°	2.6	5.2	18.2	36.4	59.7	90.9	119.4	145.4	168.8	189.5	205.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.6	5.2	15.6	33.8	54.5	80.5	109.1	132.4	155.8	174.0	189.5
115°	2.6	5.2	15.6	31.2	49.3	70.1	96.1	122.0	140.2	161.0	174.0
117.5°	2.6	5.2	13.0	26.0	46.7	64.9	88.3	109.1	129.8	148.0	161.0
120°	2.6	5.2	13.0	23.4	41.5	59.7	77.9	98.7	119.4	132.4	145.4
122.5°	2.6	5.2	10.4	23.4	36.4	54.5	70.1	88.3	106.5	122.0	135.0
125°	2.6	5.2	10.4	20.8	33.8	49.3	64.9	77.9	96.1	109.1	122.0
127.5°	2.6	5.2	10.4	18.2	31.2	44.1	59.7	72.7	85.7	98.7	109.1
130°	2.6	5.2	7.8	15.6	28.6	38.9	51.9	67.5	77.9	88.3	98.7
132.5°	2.6	5.2	7.8	15.6	23.4	33.8	46.7	59.7	70.1	80.5	88.3
135°	2.6	5.2	7.8	13.0	20.8	31.2	38.9	51.9	62.3	72.7	80.5
137.5°	2.6	5.2	7.8	13.0	18.2	26.0	33.8	44.1	54.5	62.3	72.7
140°	2.6	5.2	7.8	10.4	15.6	23.4	31.2	36.4	46.7	54.5	62.3
142.5°	2.6	5.2	7.8	10.4	15.6	20.8	26.0	31.2	38.9	46.7	54.5
145°	2.6	5.2	7.8	10.4	13.0	18.2	23.4	28.6	31.2	38.9	44.1
147.5°	2.6	5.2	7.8	10.4	10.4	15.6	20.8	23.4	28.6	31.2	36.4
150°	2.6	5.2	7.8	7.8	10.4	13.0	18.2	20.8	23.4	28.6	31.2
152.5°	2.6	5.2	7.8	7.8	10.4	13.0	15.6	18.2	20.8	23.4	26.0
155°	2.6	5.2	7.8	7.8	7.8	10.4	13.0	15.6	18.2	20.8	23.4
157.5°	5.2	5.2	5.2	7.8	7.8	10.4	10.4	13.0	15.6	15.6	18.2
160°	5.2	5.2	5.2	7.8	7.8	7.8	10.4	10.4	13.0	13.0	15.6
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4691.8	4699.6	4723.0	4723.0	4717.8	4712.6	4712.6	4704.8	4710.0	4720.4	4715.2
5°	4691.8	4699.6	4723.0	4723.0	4717.8	4712.6	4710.0	4702.2	4710.0	4720.4	4715.2
7.5°	4676.2	4686.6	4710.0	4710.0	4704.8	4702.2	4697.0	4691.8	4699.6	4710.0	4704.8
10°	4655.5	4665.8	4689.2	4689.2	4684.0	4684.0	4676.2	4671.0	4681.4	4689.2	4686.6
12.5°	4624.3	4637.3	4658.0	4655.5	4650.3	4652.9	4645.1	4634.7	4645.1	4652.9	4655.5
15°	4580.2	4595.7	4616.5	4611.3	4603.5	4608.7	4595.7	4587.9	4595.7	4611.3	4608.7
17.5°	4523.0	4533.4	4549.0	4549.0	4541.2	4536.0	4530.8	4523.0	4528.2	4538.6	4541.2
20°	4442.5	4455.5	4463.3	4455.5	4452.9	4445.1	4434.8	4427.0	4437.3	4452.9	4455.5
22.5°	4336.1	4338.7	4356.9	4338.7	4325.7	4323.1	4312.7	4297.1	4312.7	4325.7	4328.3
25°	4203.7	4216.7	4208.9	4177.7	4177.7	4156.9	4151.7	4144.0	4146.5	4169.9	4180.3
27.5°	4034.9	4040.1	4019.3	3993.4	3970.0	3957.0	3938.8	3941.4	3941.4	3972.6	3983.0
30°	3850.6	3822.0	3803.8	3762.3	3744.1	3712.9	3707.7	3707.7	3702.6	3718.1	3764.9
32.5°	3629.9	3590.9	3562.3	3523.4	3492.2	3461.1	3445.5	3453.3	3450.7	3489.6	3505.2
35°	3388.4	3365.0	3305.3	3256.0	3237.8	3191.0	3191.0	3167.7	3183.3	3227.4	3245.6
37.5°	3133.9	3097.6	3048.2	2993.7	2980.7	2944.4	2931.4	2918.4	2952.2	2960.0	2978.1
40°	2874.3	2840.5	2793.8	2741.9	2741.9	2697.7	2697.7	2697.7	2700.3	2715.9	2749.7
42.5°	2627.6	2591.3	2549.7	2513.4	2508.2	2474.4	2474.4	2471.8	2477.0	2490.0	2521.2
45°	2388.7	2360.2	2316.0	2297.9	2300.5	2264.1	2271.9	2264.1	2274.5	2287.5	2297.9
47.5°	2168.0	2149.9	2131.7	2105.7	2097.9	2095.3	2082.4	2072.0	2090.2	2090.2	2105.7
50°	1962.9	1952.5	1942.2	1926.6	1929.2	1918.8	1903.2	1903.2	1916.2	1918.8	1929.2
52.5°	1783.8	1770.8	1757.8	1760.4	1763.0	1757.8	1750.0	1742.2	1750.0	1755.2	1768.2
55°	1604.6	1594.2	1607.2	1602.0	1607.2	1602.0	1596.8	1591.6	1604.6	1596.8	1609.8
57.5°	1443.6	1454.0	1459.2	1448.8	1456.6	1451.4	1454.0	1446.2	1456.6	1461.8	1459.2
60°	1295.6	1311.2	1303.4	1306.0	1316.4	1311.2	1300.8	1308.6	1319.0	1321.6	1319.0
62.5°	1160.6	1178.8	1186.6	1181.4	1184.0	1178.8	1186.6	1176.2	1189.2	1194.4	1186.6
65°	1038.6	1059.4	1064.5	1064.5	1064.5	1059.4	1067.1	1069.7	1074.9	1074.9	1069.7
67.5°	934.7	952.9	958.1	963.3	958.1	952.9	952.9	955.5	965.9	971.1	965.9
70°	841.3	859.4	862.0	862.0	864.6	869.8	859.4	864.6	872.4	875.0	872.4
72.5°	760.8	778.9	784.1	781.5	784.1	786.7	786.7	781.5	789.3	794.5	794.5
75°	695.9	706.2	711.4	711.4	714.0	716.6	716.6	714.0	719.2	721.8	724.4
77.5°	636.1	643.9	651.7	651.7	654.3	651.7	656.9	656.9	659.5	662.1	664.7
80°	576.4	586.8	592.0	594.6	599.8	602.4	602.4	602.4	605.0	607.6	607.6
82.5°	529.7	537.5	545.3	553.0	553.0	555.6	555.6	555.6	558.2	558.2	560.8
85°	482.9	493.3	501.1	506.3	508.9	511.5	511.5	514.1	514.1	514.1	516.7
87.5°	441.4	454.4	459.6	464.8	467.4	472.6	472.6	472.6	475.2	475.2	475.2
90°	412.8	425.8	431.0	436.2	438.8	441.4	441.4	444.0	444.0	446.6	446.6
92.5°	379.1	392.1	402.5	402.5	405.0	410.2	407.6	407.6	410.2	412.8	412.8
95°	353.1	363.5	371.3	373.9	376.5	376.5	376.5	379.1	376.5	379.1	379.1
97.5°	322.0	332.3	340.1	345.3	347.9	347.9	347.9	350.5	347.9	350.5	350.5
100°	296.0	306.4	314.2	316.8	322.0	322.0	322.0	322.0	322.0	322.0	324.6
102.5°	275.2	285.6	290.8	293.4	296.0	298.6	298.6	298.6	298.6	301.2	301.2
105°	254.5	264.8	270.0	272.6	275.2	277.8	277.8	277.8	280.4	280.4	277.8
107.5°	236.3	244.1	249.3	254.5	257.0	257.0	259.6	259.6	259.6	259.6	259.6
110°	218.1	225.9	233.7	238.9	238.9	241.5	241.5	244.1	244.1	241.5	244.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.9	210.3	215.5	220.7	223.3	225.9	225.9	225.9	225.9	225.9	225.9
115°	184.3	194.7	199.9	205.1	207.7	210.3	210.3	210.3	210.3	210.3	210.3
117.5°	171.4	181.8	186.9	189.5	192.1	194.7	197.3	197.3	197.3	197.3	194.7
120°	158.4	166.2	171.4	176.6	179.2	181.8	181.8	181.8	181.8	181.8	181.8
122.5°	145.4	153.2	158.4	163.6	166.2	168.8	168.8	168.8	168.8	168.8	168.8
125°	132.4	140.2	145.4	150.6	153.2	155.8	155.8	155.8	155.8	155.8	155.8
127.5°	119.4	127.2	135.0	137.6	140.2	142.8	142.8	142.8	145.4	142.8	142.8
130°	106.5	114.2	122.0	124.6	127.2	129.8	132.4	132.4	132.4	132.4	129.8
132.5°	96.1	103.9	109.1	111.6	116.8	116.8	119.4	119.4	119.4	119.4	116.8
135°	88.3	93.5	98.7	101.3	106.5	106.5	106.5	109.1	109.1	106.5	103.9
137.5°	77.9	83.1	88.3	90.9	93.5	96.1	96.1	98.7	96.1	96.1	96.1
140°	72.7	75.3	80.5	83.1	85.7	85.7	85.7	88.3	88.3	85.7	85.7
142.5°	62.3	67.5	72.7	75.3	77.9	77.9	77.9	77.9	77.9	77.9	77.9
145°	51.9	59.7	62.3	67.5	67.5	70.1	70.1	70.1	70.1	70.1	67.5
147.5°	44.1	49.3	57.1	59.7	59.7	62.3	62.3	62.3	62.3	62.3	59.7
150°	33.8	38.9	46.7	51.9	51.9	54.5	54.5	54.5	54.5	51.9	51.9
152.5°	28.6	33.8	36.4	41.5	44.1	44.1	44.1	46.7	44.1	44.1	44.1
155°	26.0	28.6	31.2	33.8	36.4	38.9	38.9	38.9	38.9	36.4	36.4
157.5°	20.8	23.4	26.0	28.6	31.2	33.8	33.8	33.8	33.8	33.8	31.2
160°	15.6	18.2	20.8	20.8	23.4	26.0	28.6	26.0	26.0	26.0	26.0
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-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4710.0	4707.4	4715.2	4702.2	4663.2	4673.6	4668.4	4691.8	4697.0	4702.2	4725.6
5°	4710.0	4707.4	4712.6	4702.2	4660.6	4668.4	4663.2	4686.6	4691.8	4694.4	4717.8
7.5°	4699.6	4697.0	4704.8	4691.8	4647.7	4658.0	4650.3	4673.6	4676.2	4678.8	4699.6
10°	4678.8	4676.2	4681.4	4671.0	4626.9	4637.3	4626.9	4650.3	4650.3	4655.5	4671.0
12.5°	4647.7	4642.5	4652.9	4639.9	4590.5	4603.5	4598.3	4613.9	4616.5	4619.1	4634.7
15°	4603.5	4598.3	4606.1	4598.3	4554.2	4556.8	4549.0	4572.4	4575.0	4569.8	4585.3
17.5°	4538.6	4533.4	4549.0	4543.8	4499.7	4510.1	4507.5	4512.6	4520.4	4507.5	4528.2
20°	4458.1	4463.3	4468.5	4471.1	4437.3	4437.3	4434.8	4445.1	4452.9	4442.5	4458.1
22.5°	4338.7	4351.7	4367.2	4372.4	4349.1	4346.5	4362.1	4356.9	4364.6	4359.5	4369.8
25°	4188.1	4214.1	4229.6	4245.2	4232.2	4237.4	4260.8	4266.0	4266.0	4263.4	4273.8
27.5°	4001.1	4034.9	4063.5	4097.2	4084.2	4094.6	4133.6	4138.8	4149.1	4138.8	4159.5
30°	3777.8	3809.0	3863.5	3912.9	3918.1	3933.6	3988.2	3993.4	4021.9	4011.5	4019.3
32.5°	3554.6	3570.1	3632.4	3681.8	3712.9	3751.9	3811.6	3822.0	3860.9	3868.7	3868.7
35°	3274.1	3318.3	3375.4	3445.5	3484.4	3526.0	3606.5	3622.1	3679.2	3697.4	3718.1
37.5°	3037.9	3079.4	3115.8	3188.5	3258.6	3305.3	3370.2	3409.2	3468.9	3502.6	3528.6
40°	2786.0	2819.8	2858.7	2931.4	2991.1	3061.2	3126.1	3172.9	3248.2	3287.1	3320.9
42.5°	2547.1	2573.1	2614.6	2666.6	2728.9	2806.8	2869.1	2923.6	3004.1	3058.6	3097.6
45°	2334.2	2349.8	2386.1	2425.1	2479.6	2560.1	2619.8	2689.9	2754.8	2812.0	2858.7
47.5°	2134.3	2155.1	2173.2	2199.2	2248.5	2297.9	2368.0	2435.5	2500.4	2562.7	2609.4
50°	1949.9	1949.9	1978.5	1996.7	2030.4	2074.6	2129.1	2175.8	2256.3	2300.5	2360.2
52.5°	1770.8	1781.2	1796.8	1807.1	1833.1	1861.7	1905.8	1944.7	2012.3	2053.8	2110.9
55°	1612.4	1622.8	1630.6	1635.8	1651.3	1685.1	1700.7	1731.8	1778.6	1812.3	1861.7
57.5°	1461.8	1467.0	1474.8	1477.4	1480.0	1500.8	1513.7	1521.5	1568.3	1602.0	1643.6
60°	1324.2	1324.2	1332.0	1329.4	1326.8	1337.2	1334.6	1342.4	1370.9	1391.7	1409.9
62.5°	1194.4	1194.4	1197.0	1191.8	1189.2	1189.2	1178.8	1186.6	1194.4	1197.0	1210.0
65°	1074.9	1087.9	1077.5	1080.1	1064.5	1059.4	1054.2	1038.6	1036.0	1025.6	1030.8
67.5°	968.5	978.9	968.5	968.5	955.5	945.1	932.1	906.2	898.4	877.6	872.4
70°	882.8	875.0	880.2	872.4	856.8	843.8	825.7	804.9	778.9	753.0	734.8
72.5°	799.7	799.7	794.5	786.7	778.9	753.0	732.2	708.8	677.7	643.9	618.0
75°	719.2	721.8	721.8	714.0	701.0	677.7	654.3	620.6	586.8	547.9	514.1
77.5°	662.1	662.1	662.1	649.1	636.1	615.4	586.8	550.4	514.1	467.4	428.4
80°	607.6	605.0	605.0	589.4	576.4	553.0	524.5	488.1	449.2	399.9	355.7
82.5°	563.4	560.8	555.6	542.7	524.5	501.1	472.6	433.6	392.1	347.9	293.4
85°	516.7	514.1	508.9	495.9	477.7	457.0	425.8	386.9	345.3	296.0	244.1
87.5°	475.2	472.6	464.8	457.0	436.2	412.8	381.7	345.3	301.2	254.5	202.5
90°	446.6	441.4	436.2	425.8	407.6	381.7	350.5	311.6	267.4	220.7	168.8
92.5°	412.8	410.2	402.5	392.1	376.5	350.5	319.4	283.0	238.9	194.7	145.4
95°	379.1	376.5	371.3	360.9	345.3	322.0	293.4	257.0	215.5	171.4	127.2
97.5°	347.9	347.9	340.1	332.3	314.2	296.0	267.4	233.7	194.7	155.8	114.2
100°	322.0	322.0	314.2	303.8	290.8	272.6	244.1	212.9	176.6	140.2	98.7
102.5°	298.6	296.0	290.8	280.4	267.4	249.3	223.3	194.7	161.0	124.6	88.3
105°	277.8	275.2	270.0	259.6	249.3	228.5	207.7	179.2	145.4	111.6	77.9
107.5°	257.0	254.5	251.9	241.5	228.5	210.3	189.5	161.0	132.4	101.3	70.1
110°	238.9	236.3	231.1	220.7	207.7	192.1	171.4	148.0	119.4	90.9	62.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	223.3	220.7	215.5	205.1	194.7	176.6	158.4	132.4	109.1	83.1	54.5
115°	207.7	205.1	199.9	189.5	176.6	161.0	142.8	122.0	96.1	72.7	49.3
117.5°	192.1	189.5	184.3	176.6	163.6	148.0	129.8	109.1	85.7	67.5	44.1
120°	179.2	174.0	168.8	161.0	148.0	135.0	116.8	98.7	77.9	59.7	38.9
122.5°	166.2	161.0	155.8	148.0	135.0	122.0	103.9	88.3	72.7	54.5	36.4
125°	150.6	148.0	142.8	135.0	122.0	109.1	96.1	80.5	64.9	49.3	31.2
127.5°	137.6	135.0	129.8	119.4	109.1	98.7	85.7	72.7	57.1	41.5	28.6
130°	127.2	122.0	116.8	109.1	101.3	90.9	77.9	64.9	51.9	36.4	26.0
132.5°	114.2	109.1	103.9	98.7	90.9	80.5	70.1	57.1	46.7	33.8	23.4
135°	103.9	98.7	93.5	88.3	80.5	72.7	62.3	51.9	41.5	31.2	20.8
137.5°	90.9	88.3	85.7	80.5	72.7	64.9	57.1	44.1	36.4	28.6	18.2
140°	83.1	80.5	77.9	70.1	64.9	57.1	49.3	38.9	31.2	23.4	15.6
142.5°	75.3	72.7	67.5	62.3	57.1	51.9	41.5	36.4	28.6	20.8	15.6
145°	64.9	62.3	59.7	54.5	49.3	41.5	36.4	31.2	26.0	18.2	13.0
147.5°	59.7	57.1	51.9	46.7	41.5	36.4	33.8	28.6	20.8	15.6	10.4
150°	49.3	46.7	44.1	38.9	36.4	33.8	28.6	23.4	18.2	13.0	10.4
152.5°	41.5	38.9	36.4	36.4	31.2	28.6	23.4	20.8	15.6	13.0	7.8
155°	36.4	36.4	33.8	31.2	26.0	23.4	20.8	15.6	13.0	10.4	7.8
157.5°	31.2	28.6	26.0	26.0	23.4	20.8	15.6	13.0	10.4	10.4	7.8
160°	26.0	23.4	23.4	20.8	18.2	15.6	13.0	13.0	10.4	7.8	7.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4728.2	4699.6	4725.6	4759.3	4759.3	4754.1	4748.9	4759.3	4785.3	4774.9	4743.7
5°	4720.4	4691.8	4715.2	4748.9	4748.9	4741.1	4735.9	4743.7	4772.3	4759.3	4730.7
7.5°	4704.8	4678.8	4694.4	4725.6	4725.6	4717.8	4712.6	4723.0	4746.3	4733.3	4702.2
10°	4676.2	4647.7	4665.8	4694.4	4691.8	4686.6	4678.8	4691.8	4712.6	4694.4	4658.0
12.5°	4639.9	4611.3	4626.9	4652.9	4650.3	4639.9	4634.7	4642.5	4660.6	4650.3	4611.3
15°	4590.5	4562.0	4575.0	4600.9	4593.1	4585.3	4575.0	4577.6	4600.9	4582.8	4541.2
17.5°	4530.8	4499.7	4510.1	4533.4	4525.6	4517.8	4504.9	4507.5	4533.4	4507.5	4463.3
20°	4458.1	4424.4	4432.2	4460.7	4447.7	4434.8	4421.8	4421.8	4447.7	4419.2	4369.8
22.5°	4380.2	4346.5	4351.7	4372.4	4362.1	4338.7	4325.7	4333.5	4346.5	4310.1	4258.2
25°	4284.2	4240.0	4247.8	4268.6	4260.8	4229.6	4216.7	4221.8	4216.7	4188.1	4133.6
27.5°	4172.5	4125.8	4131.0	4144.0	4133.6	4105.0	4089.4	4092.0	4081.6	4045.3	3983.0
30°	4032.3	4008.9	4006.3	4014.1	3998.5	3970.0	3951.8	3946.6	3944.0	3892.1	3816.8
32.5°	3889.5	3868.7	3855.7	3866.1	3848.0	3819.4	3788.2	3788.2	3762.3	3712.9	3648.0
35°	3744.1	3710.3	3697.4	3705.1	3684.4	3648.0	3622.1	3609.1	3570.1	3507.8	3437.7
37.5°	3557.2	3533.8	3518.2	3526.0	3502.6	3476.7	3427.3	3414.3	3372.8	3287.1	3198.8
40°	3354.6	3336.5	3320.9	3328.7	3302.7	3263.8	3219.6	3198.8	3152.1	3056.0	2985.9
42.5°	3136.5	3128.7	3110.6	3139.1	3087.2	3048.2	3004.1	2970.4	2923.6	2819.8	2739.3
45°	2905.4	2923.6	2882.1	2889.9	2856.1	2822.4	2775.6	2726.3	2679.5	2580.9	2490.0
47.5°	2661.4	2674.4	2645.8	2651.0	2614.6	2583.5	2541.9	2479.6	2427.7	2342.0	2261.5
50°	2409.5	2404.3	2404.3	2399.1	2370.6	2331.6	2290.1	2233.0	2181.0	2103.1	2035.6
52.5°	2142.1	2152.5	2157.7	2170.6	2134.3	2110.9	2046.0	1996.7	1957.7	1877.2	1820.1
55°	1885.0	1921.4	1911.0	1916.2	1874.6	1856.5	1804.5	1765.6	1708.5	1661.7	1625.4
57.5°	1651.3	1659.1	1664.3	1672.1	1653.9	1617.6	1576.1	1544.9	1500.8	1461.8	1435.8
60°	1425.5	1425.5	1428.1	1441.0	1422.9	1391.7	1360.5	1337.2	1306.0	1282.7	1267.1
62.5°	1212.5	1230.7	1233.3	1222.9	1199.6	1184.0	1163.2	1150.2	1129.5	1121.7	1116.5
65°	1015.2	1015.2	1015.2	1020.4	1007.4	997.0	984.1	981.5	989.3	978.9	984.1
67.5°	849.0	841.3	836.1	838.7	833.5	828.3	825.7	833.5	849.0	849.0	862.0
70°	706.2	690.7	680.3	680.3	680.3	682.9	690.7	706.2	732.2	742.6	760.8
72.5°	589.4	555.6	540.1	540.1	542.7	553.0	576.4	605.0	628.3	649.1	672.5
75°	477.7	444.0	420.6	418.0	423.2	438.8	472.6	498.5	537.5	566.0	594.6
77.5°	386.9	345.3	316.8	314.2	322.0	345.3	386.9	420.6	464.8	495.9	527.1
80°	309.0	262.2	238.9	223.3	236.3	264.8	311.6	353.1	394.7	436.2	475.2
82.5°	246.7	202.5	166.2	150.6	166.2	205.1	249.3	298.6	340.1	384.3	423.2
85°	194.7	148.0	106.5	90.9	109.1	150.6	199.9	249.3	296.0	340.1	379.1
87.5°	153.2	106.5	64.9	44.1	67.5	111.6	158.4	207.7	257.0	301.2	340.1
90°	119.4	75.3	36.4	5.2	38.9	80.5	127.2	174.0	223.3	267.4	306.4
92.5°	101.3	57.1	20.8	0.0	23.4	59.7	103.9	150.6	194.7	238.9	277.8
95°	85.7	46.7	15.6	0.0	15.6	46.7	85.7	127.2	171.4	215.5	254.5
97.5°	72.7	36.4	10.4	0.0	10.4	36.4	70.1	111.6	150.6	192.1	228.5
100°	62.3	31.2	7.8	0.0	7.8	28.6	59.7	96.1	135.0	174.0	207.7
102.5°	54.5	26.0	5.2	0.0	5.2	23.4	49.3	83.1	116.8	153.2	186.9
105°	46.7	20.8	5.2	0.0	2.6	18.2	41.5	72.7	103.9	137.6	168.8
107.5°	41.5	18.2	5.2	0.0	2.6	15.6	36.4	62.3	93.5	122.0	150.6
110°	36.4	15.6	5.2	0.0	2.6	10.4	31.2	54.5	80.5	109.1	137.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	31.2	13.0	2.6	0.0	0.0	7.8	26.0	46.7	70.1	98.7	122.0
115°	28.6	13.0	2.6	0.0	0.0	5.2	20.8	41.5	62.3	88.3	109.1
117.5°	26.0	10.4	2.6	0.0	2.6	5.2	18.2	36.4	54.5	75.3	98.7
120°	23.4	10.4	2.6	0.0	2.6	2.6	13.0	31.2	46.7	67.5	85.7
122.5°	20.8	10.4	2.6	0.0	2.6	2.6	10.4	26.0	41.5	59.7	75.3
125°	18.2	7.8	5.2	2.6	2.6	2.6	7.8	20.8	36.4	49.3	67.5
127.5°	18.2	7.8	5.2	2.6	2.6	2.6	5.2	18.2	28.6	44.1	59.7
130°	15.6	7.8	5.2	2.6	2.6	2.6	2.6	13.0	26.0	36.4	49.3
132.5°	13.0	7.8	5.2	2.6	2.6	2.6	2.6	7.8	18.2	31.2	41.5
135°	13.0	7.8	5.2	2.6	2.6	2.6	2.6	5.2	13.0	23.4	33.8
137.5°	10.4	5.2	5.2	2.6	2.6	2.6	2.6	2.6	10.4	18.2	26.0
140°	10.4	5.2	5.2	2.6	2.6	2.6	2.6	2.6	7.8	13.0	20.8
142.5°	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	5.2	10.4	15.6
145°	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	5.2	10.4
147.5°	7.8	7.8	5.2	2.6	2.6	2.6	2.6	2.6	2.6	5.2	7.8
150°	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.2
152.5°	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.2
155°	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	5.2	5.2
157.5°	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.2
160°	7.8	5.2	5.2	2.6	5.2	2.6	5.2	5.2	5.2	5.2	5.2
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-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4733.3	4684.0	4710.0	4702.2	4712.6	4733.3	4730.7	4725.6	4725.6	4717.8	4707.4
5°	4717.8	4671.0	4694.4	4681.4	4694.4	4712.6	4710.0	4702.2	4707.4	4694.4	4681.4
7.5°	4686.6	4645.1	4665.8	4655.5	4665.8	4684.0	4676.2	4673.6	4678.8	4658.0	4650.3
10°	4650.3	4603.5	4626.9	4613.9	4626.9	4639.9	4634.7	4624.3	4634.7	4613.9	4606.1
12.5°	4593.1	4554.2	4569.8	4564.6	4572.4	4585.3	4575.0	4567.2	4572.4	4554.2	4538.6
15°	4530.8	4491.9	4504.9	4497.1	4502.3	4517.8	4499.7	4497.1	4491.9	4473.7	4468.5
17.5°	4450.3	4414.0	4427.0	4414.0	4421.8	4416.6	4414.0	4401.0	4401.0	4380.2	4364.6
20°	4351.7	4320.5	4312.7	4302.3	4312.7	4302.3	4286.8	4276.4	4273.8	4253.0	4240.0
22.5°	4237.4	4201.1	4206.3	4177.7	4180.3	4164.7	4138.8	4128.4	4118.0	4094.6	4076.4
25°	4099.8	4063.5	4037.5	4019.3	3996.0	3993.4	3959.6	3933.6	3931.0	3902.5	3899.9
27.5°	3944.0	3902.5	3881.7	3837.6	3809.0	3785.6	3757.1	3731.1	3718.1	3687.0	3666.2
30°	3764.9	3718.1	3666.2	3635.0	3590.9	3572.7	3523.4	3492.2	3481.9	3448.1	3432.5
32.5°	3562.3	3513.0	3471.5	3411.7	3362.4	3336.5	3287.1	3256.0	3243.0	3206.6	3185.9
35°	3341.6	3287.1	3237.8	3180.7	3141.7	3097.6	3037.9	3006.7	2978.1	2965.2	2949.6
37.5°	3110.6	3050.8	2993.7	2936.6	2902.8	2850.9	2799.0	2778.2	2744.5	2731.5	2715.9
40°	2871.7	2812.0	2757.4	2702.9	2664.0	2617.2	2570.5	2562.7	2526.4	2513.4	2503.0
42.5°	2635.4	2573.1	2510.8	2471.8	2443.3	2396.5	2365.4	2357.6	2326.4	2318.6	2318.6
45°	2422.5	2344.6	2292.7	2258.9	2235.6	2196.6	2170.6	2165.4	2139.5	2134.3	2134.3
47.5°	2194.0	2121.3	2082.4	2061.6	2040.8	2012.3	1996.7	1996.7	1970.7	1965.5	1962.9
50°	1981.1	1913.6	1885.0	1864.3	1861.7	1840.9	1827.9	1822.7	1822.7	1804.5	1807.1
52.5°	1778.6	1744.8	1721.5	1708.5	1692.9	1679.9	1669.5	1669.5	1661.7	1648.8	1653.9
55°	1591.6	1552.7	1555.3	1544.9	1537.1	1529.3	1531.9	1516.3	1513.7	1503.4	1511.1
57.5°	1404.7	1404.7	1399.5	1391.7	1378.7	1383.9	1383.9	1383.9	1370.9	1363.1	1370.9
60°	1246.3	1254.1	1241.1	1248.9	1243.7	1246.3	1241.1	1241.1	1233.3	1230.7	1233.3
62.5°	1106.1	1119.1	1113.9	1124.3	1119.1	1121.7	1126.9	1116.5	1111.3	1106.1	1111.3
65°	981.5	997.0	994.4	1002.2	1004.8	1007.4	1010.0	1004.8	999.6	994.4	991.8
67.5°	872.4	888.0	898.4	901.0	903.6	911.4	908.8	903.6	898.4	890.6	888.0
70°	773.7	794.5	807.5	812.7	823.1	817.9	817.9	815.3	810.1	802.3	799.7
72.5°	690.7	714.0	727.0	732.2	742.6	742.6	740.0	737.4	732.2	724.4	721.8
75°	618.0	638.7	656.9	667.3	675.1	675.1	672.5	669.9	664.7	659.5	656.9
77.5°	560.8	579.0	594.6	607.6	612.8	615.4	612.8	607.6	607.6	605.0	602.4
80°	503.7	524.5	540.1	553.0	560.8	560.8	558.2	560.8	555.6	553.0	550.4
82.5°	454.4	477.7	495.9	508.9	514.1	516.7	514.1	516.7	511.5	511.5	511.5
85°	410.2	433.6	454.4	464.8	472.6	475.2	475.2	475.2	472.6	472.6	472.6
87.5°	373.9	397.3	418.0	428.4	436.2	438.8	438.8	441.4	436.2	436.2	436.2
90°	340.1	363.5	384.3	394.7	402.5	407.6	407.6	410.2	407.6	405.0	405.0
92.5°	309.0	334.9	355.7	366.1	373.9	381.7	381.7	384.3	379.1	379.1	379.1
95°	283.0	309.0	327.2	340.1	347.9	353.1	355.7	355.7	353.1	353.1	353.1
97.5°	259.6	283.0	301.2	314.2	322.0	324.6	327.2	329.8	327.2	327.2	327.2
100°	236.3	259.6	277.8	288.2	298.6	301.2	303.8	306.4	306.4	303.8	303.8
102.5°	215.5	238.9	254.5	267.4	275.2	280.4	283.0	283.0	283.0	283.0	283.0
105°	194.7	218.1	233.7	246.7	254.5	259.6	262.2	264.8	264.8	262.2	262.2
107.5°	176.6	197.3	215.5	225.9	236.3	241.5	244.1	244.1	246.7	244.1	244.1
110°	158.4	181.8	197.3	207.7	218.1	223.3	225.9	228.5	228.5	228.5	228.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.4	163.6	179.2	189.5	199.9	205.1	207.7	210.3	212.9	210.3	210.3
115°	129.8	148.0	163.6	174.0	181.8	186.9	192.1	194.7	194.7	197.3	194.7
117.5°	116.8	132.4	148.0	158.4	166.2	174.0	176.6	179.2	181.8	179.2	179.2
120°	103.9	119.4	132.4	142.8	150.6	158.4	161.0	163.6	166.2	163.6	163.6
122.5°	93.5	106.5	119.4	129.8	137.6	142.8	148.0	148.0	150.6	150.6	150.6
125°	83.1	96.1	106.5	116.8	124.6	129.8	132.4	135.0	135.0	137.6	137.6
127.5°	72.7	83.1	96.1	103.9	111.6	116.8	119.4	122.0	122.0	124.6	124.6
130°	62.3	72.7	83.1	90.9	98.7	103.9	106.5	109.1	111.6	111.6	111.6
132.5°	54.5	64.9	72.7	80.5	85.7	90.9	96.1	98.7	98.7	98.7	98.7
135°	44.1	54.5	62.3	70.1	75.3	80.5	83.1	88.3	88.3	88.3	88.3
137.5°	36.4	46.7	54.5	59.7	64.9	70.1	72.7	75.3	77.9	77.9	77.9
140°	28.6	36.4	44.1	51.9	57.1	59.7	64.9	64.9	67.5	67.5	67.5
142.5°	20.8	28.6	33.8	41.5	46.7	51.9	54.5	57.1	57.1	57.1	57.1
145°	15.6	20.8	26.0	31.2	38.9	41.5	44.1	46.7	49.3	49.3	49.3
147.5°	10.4	15.6	18.2	23.4	28.6	33.8	36.4	38.9	41.5	41.5	41.5
150°	7.8	10.4	15.6	18.2	20.8	26.0	31.2	31.2	33.8	33.8	31.2
152.5°	5.2	7.8	10.4	13.0	15.6	18.2	23.4	23.4	26.0	26.0	26.0
155°	5.2	5.2	5.2	7.8	10.4	13.0	15.6	18.2	18.2	18.2	18.2
157.5°	5.2	5.2	5.2	5.2	5.2	7.8	10.4	13.0	13.0	13.0	13.0
160°	5.2	5.2	2.6	2.6	5.2	5.2	5.2	5.2	7.8	7.8	7.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4715.2	4720.4	4720.4	4715.2	4712.6	4723.0	4710.0	4660.6	4676.2	4681.4	4697.0
5°	4691.8	4697.0	4697.0	4697.0	4691.8	4702.2	4689.2	4639.9	4658.0	4665.8	4676.2
7.5°	4658.0	4660.6	4665.8	4663.2	4658.0	4673.6	4660.6	4611.3	4624.3	4637.3	4650.3
10°	4613.9	4613.9	4616.5	4621.7	4616.5	4629.5	4616.5	4572.4	4585.3	4593.1	4608.7
12.5°	4554.2	4559.4	4562.0	4559.4	4556.8	4567.2	4562.0	4520.4	4525.6	4541.2	4556.8
15°	4473.7	4473.7	4486.7	4481.5	4481.5	4491.9	4497.1	4450.3	4458.1	4481.5	4497.1
17.5°	4375.0	4377.6	4388.0	4393.2	4390.6	4408.8	4411.4	4375.0	4372.4	4401.0	4416.6
20°	4247.8	4253.0	4266.0	4276.4	4276.4	4297.1	4304.9	4281.6	4284.2	4315.3	4320.5
22.5°	4092.0	4092.0	4115.4	4131.0	4144.0	4156.9	4180.3	4159.5	4159.5	4201.1	4224.4
25°	3899.9	3918.1	3925.8	3957.0	3975.2	4011.5	4032.3	4034.9	4037.5	4076.4	4092.0
27.5°	3687.0	3692.2	3715.5	3751.9	3772.7	3806.4	3845.4	3853.1	3866.1	3918.1	3941.4
30°	3445.5	3461.1	3471.5	3523.4	3552.0	3596.1	3645.4	3663.6	3674.0	3744.1	3772.7
32.5°	3198.8	3204.0	3248.2	3276.7	3310.5	3357.2	3414.3	3448.1	3468.9	3541.6	3583.1
35°	2952.2	2962.6	2998.9	3035.3	3069.0	3115.8	3175.5	3222.2	3258.6	3323.5	3378.0
37.5°	2726.3	2752.2	2760.0	2796.4	2822.4	2869.1	2910.6	2978.1	3014.5	3082.0	3152.1
40°	2523.8	2531.5	2536.7	2573.1	2591.3	2635.4	2695.1	2739.3	2788.6	2837.9	2921.0
42.5°	2323.8	2329.0	2336.8	2357.6	2378.4	2409.5	2453.7	2497.8	2549.7	2622.4	2677.0
45°	2139.5	2144.7	2149.9	2162.9	2181.0	2209.6	2238.1	2269.3	2321.2	2383.6	2440.7
47.5°	1968.1	1978.5	1978.5	1981.1	1994.1	2017.4	2038.2	2077.2	2105.7	2139.5	2204.4
50°	1804.5	1812.3	1814.9	1814.9	1822.7	1838.3	1843.5	1869.5	1895.4	1926.6	1973.3
52.5°	1651.3	1651.3	1648.8	1659.1	1659.1	1669.5	1672.1	1687.7	1705.9	1739.6	1760.4
55°	1505.9	1505.9	1513.7	1508.5	1508.5	1513.7	1511.1	1513.7	1529.3	1550.1	1568.3
57.5°	1365.7	1363.1	1370.9	1365.7	1363.1	1368.3	1373.5	1363.1	1365.7	1386.5	1386.5
60°	1225.5	1228.1	1235.9	1230.7	1230.7	1230.7	1225.5	1220.3	1215.1	1228.1	1233.3
62.5°	1113.9	1106.1	1113.9	1106.1	1111.3	1108.7	1103.5	1093.1	1095.7	1090.5	1085.3
65°	997.0	997.0	999.6	991.8	997.0	997.0	989.3	986.7	971.1	965.9	952.9
67.5°	895.8	895.8	898.4	893.2	893.2	895.8	888.0	880.2	864.6	856.8	838.7
70°	807.5	807.5	807.5	804.9	804.9	804.9	799.7	789.3	773.7	760.8	737.4
72.5°	727.0	729.6	727.0	727.0	734.8	727.0	719.2	708.8	695.9	669.9	649.1
75°	662.1	664.7	662.1	662.1	662.1	659.5	656.9	641.3	625.7	605.0	573.8
77.5°	605.0	605.0	607.6	605.0	605.0	602.4	594.6	581.6	563.4	545.3	508.9
80°	550.4	553.0	555.6	558.2	553.0	550.4	542.7	532.3	508.9	488.1	451.8
82.5°	511.5	508.9	511.5	514.1	508.9	506.3	498.5	485.5	467.4	438.8	402.5
85°	472.6	470.0	470.0	472.6	470.0	464.8	457.0	444.0	425.8	397.3	360.9
87.5°	433.6	436.2	438.8	436.2	433.6	428.4	420.6	407.6	386.9	363.5	324.6
90°	405.0	405.0	405.0	405.0	402.5	397.3	389.5	373.9	355.7	327.2	293.4
92.5°	379.1	379.1	379.1	379.1	376.5	368.7	360.9	347.9	327.2	298.6	267.4
95°	353.1	355.7	353.1	353.1	347.9	345.3	332.3	319.4	301.2	272.6	238.9
97.5°	324.6	327.2	324.6	324.6	322.0	316.8	309.0	293.4	275.2	249.3	218.1
100°	303.8	303.8	301.2	301.2	298.6	293.4	283.0	270.0	251.9	225.9	194.7
102.5°	280.4	283.0	280.4	280.4	275.2	270.0	262.2	249.3	231.1	205.1	176.6
105°	262.2	262.2	259.6	259.6	254.5	249.3	241.5	225.9	210.3	186.9	158.4
107.5°	244.1	244.1	241.5	241.5	236.3	231.1	220.7	207.7	192.1	168.8	142.8
110°	225.9	225.9	225.9	223.3	218.1	210.3	202.5	189.5	174.0	153.2	127.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.9	210.3	207.7	205.1	199.9	194.7	184.3	171.4	155.8	137.6	114.2
115°	194.7	194.7	192.1	189.5	184.3	176.6	168.8	158.4	142.8	122.0	101.3
117.5°	179.2	179.2	176.6	174.0	168.8	161.0	153.2	142.8	127.2	109.1	90.9
120°	163.6	163.6	161.0	158.4	153.2	145.4	140.2	127.2	114.2	96.1	80.5
122.5°	150.6	148.0	148.0	142.8	140.2	132.4	124.6	114.2	101.3	85.7	70.1
125°	135.0	135.0	132.4	129.8	127.2	119.4	111.6	101.3	88.3	75.3	62.3
127.5°	122.0	122.0	119.4	116.8	114.2	106.5	98.7	90.9	77.9	64.9	51.9
130°	109.1	109.1	106.5	103.9	101.3	93.5	88.3	77.9	67.5	57.1	44.1
132.5°	98.7	98.7	96.1	93.5	88.3	83.1	77.9	67.5	59.7	49.3	38.9
135°	88.3	85.7	85.7	83.1	77.9	72.7	67.5	59.7	49.3	41.5	31.2
137.5°	77.9	75.3	72.7	70.1	67.5	62.3	57.1	51.9	44.1	33.8	26.0
140°	67.5	64.9	64.9	62.3	57.1	54.5	49.3	41.5	36.4	28.6	20.8
142.5°	57.1	57.1	54.5	51.9	49.3	46.7	41.5	36.4	28.6	23.4	15.6
145°	49.3	46.7	46.7	44.1	41.5	36.4	33.8	28.6	23.4	18.2	13.0
147.5°	38.9	38.9	38.9	36.4	33.8	31.2	28.6	23.4	18.2	13.0	7.8
150°	31.2	31.2	31.2	28.6	26.0	23.4	20.8	18.2	13.0	7.8	5.2
152.5°	26.0	26.0	23.4	23.4	20.8	18.2	15.6	13.0	7.8	5.2	5.2
155°	18.2	18.2	18.2	15.6	15.6	13.0	10.4	7.8	5.2	5.2	5.2
157.5°	13.0	13.0	13.0	10.4	10.4	7.8	7.8	5.2	5.2	5.2	5.2
160°	7.8	7.8	7.8	7.8	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4689.2	4686.6	4707.4	4707.4	4684.0	4720.4	4759.3
5°	4673.6	4671.0	4691.8	4691.8	4671.0	4707.4	4748.9
7.5°	4642.5	4645.1	4665.8	4671.0	4645.1	4678.8	4723.0
10°	4608.7	4606.1	4629.5	4634.7	4613.9	4645.1	4686.6
12.5°	4554.2	4554.2	4577.6	4585.3	4564.6	4600.9	4639.9
15°	4497.1	4497.1	4512.6	4525.6	4507.5	4541.2	4580.2
17.5°	4424.4	4421.8	4437.3	4452.9	4434.8	4471.1	4512.6
20°	4330.9	4330.9	4349.1	4367.2	4354.3	4388.0	4434.8
22.5°	4232.2	4221.8	4253.0	4266.0	4258.2	4291.9	4338.7
25°	4107.6	4105.0	4136.2	4154.3	4144.0	4180.3	4221.8
27.5°	3972.6	3970.0	4001.1	4024.5	4019.3	4053.1	4099.8
30°	3809.0	3822.0	3850.6	3889.5	3876.5	3912.9	3962.2
32.5°	3637.6	3650.6	3684.4	3725.9	3728.5	3757.1	3806.4
35°	3432.5	3466.3	3489.6	3544.2	3554.6	3583.1	3635.0
37.5°	3217.0	3256.0	3305.3	3346.8	3367.6	3391.0	3450.7
40°	2975.5	3032.7	3087.2	3136.5	3162.5	3185.9	3243.0
42.5°	2757.4	2801.6	2853.5	2902.8	2949.6	2970.4	3030.1
45°	2510.8	2562.7	2609.4	2669.2	2715.9	2739.3	2799.0
47.5°	2269.3	2321.2	2383.6	2425.1	2474.4	2497.8	2554.9
50°	2038.2	2085.0	2136.9	2186.2	2227.8	2248.5	2297.9
52.5°	1809.7	1859.1	1908.4	1939.6	1983.7	1999.3	2040.8
55°	1607.2	1641.0	1685.1	1703.3	1747.4	1757.8	1786.4
57.5°	1412.5	1435.8	1451.4	1482.6	1513.7	1537.1	1570.9
60°	1235.9	1246.3	1256.7	1274.9	1300.8	1308.6	1321.6
62.5°	1077.5	1074.9	1095.7	1100.9	1103.5	1129.5	1116.5
65°	937.3	939.9	921.7	914.0	924.3	932.1	926.9
67.5°	820.5	804.9	789.3	771.1	755.6	763.4	755.6
70°	706.2	693.3	667.3	641.3	630.9	615.4	607.6
72.5°	615.4	584.2	558.2	524.5	506.3	488.1	475.2
75°	545.3	501.1	464.8	428.4	402.5	376.5	371.3
77.5°	472.6	431.0	389.5	350.5	311.6	283.0	272.6
80°	415.4	376.5	327.2	280.4	238.9	202.5	189.5
82.5°	363.5	322.0	272.6	223.3	176.6	137.6	122.0
85°	319.4	275.2	225.9	176.6	129.8	88.3	67.5
87.5°	285.6	236.3	186.9	140.2	90.9	49.3	26.0
90°	254.5	207.7	161.0	111.6	64.9	26.0	0.0
92.5°	225.9	181.8	135.0	90.9	49.3	15.6	2.6
95°	199.9	161.0	114.2	72.7	36.4	10.4	2.6
97.5°	179.2	140.2	98.7	59.7	28.6	7.8	2.6
100°	161.0	122.0	85.7	49.3	23.4	5.2	2.6
102.5°	142.8	109.1	72.7	41.5	18.2	2.6	2.6
105°	127.2	96.1	62.3	36.4	15.6	2.6	2.6
107.5°	114.2	85.7	54.5	31.2	10.4	2.6	2.6
110°	101.3	72.7	46.7	26.0	7.8	2.6	2.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	90.9	64.9	41.5	20.8	5.2	2.6	2.6
115°	80.5	57.1	36.4	18.2	5.2	2.6	2.6
117.5°	70.1	49.3	31.2	13.0	2.6	2.6	2.6
120°	62.3	44.1	26.0	10.4	2.6	2.6	2.6
122.5°	54.5	36.4	20.8	7.8	2.6	2.6	2.6
125°	46.7	31.2	18.2	5.2	2.6	2.6	2.6
127.5°	38.9	26.0	13.0	5.2	2.6	2.6	2.6
130°	33.8	20.8	10.4	2.6	2.6	2.6	2.6
132.5°	28.6	15.6	7.8	2.6	2.6	2.6	2.6
135°	23.4	13.0	5.2	2.6	2.6	2.6	2.6
137.5°	18.2	10.4	5.2	2.6	2.6	2.6	2.6
140°	13.0	7.8	2.6	2.6	2.6	2.6	2.6
142.5°	10.4	5.2	2.6	2.6	2.6	2.6	2.6
145°	7.8	5.2	2.6	2.6	2.6	2.6	2.6
147.5°	5.2	5.2	5.2	5.2	2.6	2.6	2.6
150°	5.2	5.2	2.6	2.6	5.2	2.6	2.6
152.5°	5.2	2.6	2.6	2.6	5.2	2.6	2.6
155°	5.2	5.2	5.2	5.2	5.2	5.2	2.6
157.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2
160°	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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)