

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-LD5-120SL-LN-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9817.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

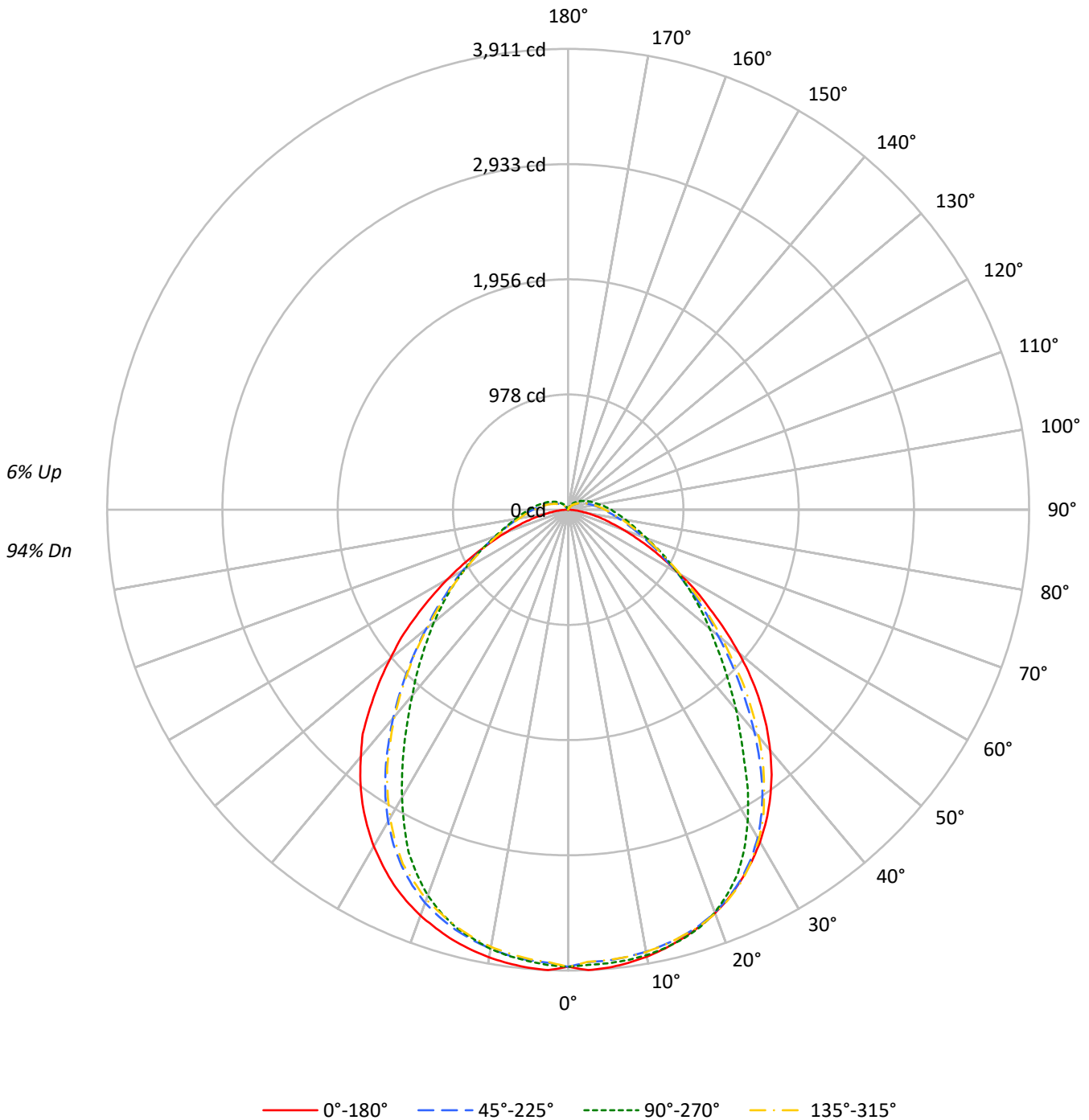
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

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°	15674	15674	15674	15674
5°	15807	15175	15807	15107
10°	15758	14771	15784	14566
15°	15679	14330	15750	13957
20°	15582	13762	15673	13181
25°	15355	12920	15525	12160
30°	15056	11684	15253	10816
35°	14575	10167	14856	9468
40°	13875	8892	14241	8250
45°	12941	7730	13361	7287
50°	11653	6793	12167	6450
55°	10115	5998	10851	5695
60°	8546	5266	9317	4963
65°	7046	4656	7758	4317
70°	5656	4132	6332	3822
75°	4501	3816	5067	3510
80°	3330	3681	3922	3364
85°	2183	3702	2938	3403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	3.7
10°-20°	1054.5	10.7
20°-30°	1562.9	15.9
30°-40°	1736.3	17.7
40°-50°	1573.9	16.0
50°-60°	1219.6	12.4
60°-70°	828.2	8.4
70°-80°	526.9	5.4
80°-90°	336.9	3.4
90°-100°	227.1	2.3
100°-110°	155.6	1.6
110°-120°	103.8	1.1
120°-130°	64.6	0.7
130°-140°	35.7	0.4
140°-150°	16.8	0.2
150°-160°	6.2	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2985.2	30.4
0°-40°	4721.4	48.1
0°-60°	7515.0	76.6
0°-90°	9207.0	93.8
90°-120°	486.5	5.0
90°-150°	603.5	6.1
90°-180°	610.0	6.2
0°-180°	9817.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3879	3879	3879	3879	3879	
5°	3903	3864	3903	3847	3903	371
15°	3764	3770	3781	3672	3764	1062
25°	3469	3405	3508	3205	3469	1598
35°	2987	2603	3045	2424	2987	1863
45°	2300	1861	2375	1754	2300	1767
55°	1468	1308	1575	1242	1468	1322
65°	762	879	839	815	762	764
75°	305	587	344	540	305	329
85°	56	422	75	388	56	66
90°	0	365	4	333	0	3
95°	2	312	0	290	2	2
105°	2	228	0	216	2	2
115°	2	173	0	160	2	2
125°	2	128	2	113	2	2
135°	2	90	2	72	2	2
145°	2	58	2	40	2	1
155°	2	32	2	15	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3911.1	3906.8	3902.6	3896.2	3902.6	3919.6	3909.0	3885.5	3881.2	3842.8	3859.9
5°	3902.6	3896.2	3891.9	3885.5	3894.0	3915.4	3904.7	3883.4	3877.0	3840.7	3859.9
7.5°	3881.2	3877.0	3870.6	3870.6	3879.1	3900.4	3891.9	3868.4	3864.2	3827.9	3849.2
10°	3851.4	3849.2	3845.0	3845.0	3853.5	3879.1	3868.4	3847.1	3842.8	3808.7	3832.2
12.5°	3813.0	3815.1	3808.7	3808.7	3821.5	3847.1	3838.6	3815.1	3810.8	3781.0	3804.4
15°	3763.9	3766.0	3761.8	3763.9	3776.7	3806.6	3795.9	3774.6	3770.3	3746.8	3766.0
17.5°	3708.4	3710.5	3710.5	3708.4	3723.3	3753.2	3744.7	3725.5	3719.1	3699.9	3723.3
20°	3644.4	3644.4	3644.4	3644.4	3661.5	3691.3	3680.7	3665.7	3652.9	3638.0	3657.2
22.5°	3565.5	3563.3	3565.5	3571.9	3588.9	3612.4	3606.0	3588.9	3569.7	3561.2	3576.1
25°	3469.4	3475.8	3478.0	3484.4	3505.7	3524.9	3518.5	3501.4	3471.6	3465.2	3469.4
27.5°	3369.1	3373.4	3379.8	3377.7	3407.6	3426.8	3414.0	3399.0	3356.3	3349.9	3345.7
30°	3256.1	3262.5	3266.7	3264.6	3288.1	3309.4	3296.6	3277.4	3219.8	3215.5	3181.4
32.5°	3128.0	3134.4	3138.7	3138.7	3172.8	3181.4	3157.9	3130.2	3068.3	3053.4	3023.5
35°	2987.2	2993.6	2995.7	2995.7	3029.9	3027.8	2997.9	2959.5	2891.2	2872.0	2820.8
37.5°	2835.7	2840.0	2842.1	2854.9	2869.9	2857.1	2818.6	2769.6	2718.4	2665.0	2609.5
40°	2665.0	2671.4	2675.7	2684.2	2699.2	2684.2	2628.7	2569.0	2513.5	2453.8	2398.3
42.5°	2490.1	2509.3	2505.0	2502.9	2511.4	2470.9	2428.2	2359.9	2304.4	2242.5	2187.1
45°	2300.2	2298.0	2308.7	2313.0	2310.8	2276.7	2216.9	2155.1	2099.6	2035.6	1988.6
47.5°	2099.6	2097.4	2106.0	2110.3	2097.4	2061.2	2014.2	1943.8	1896.9	1841.4	1805.1
50°	1888.3	1888.3	1901.1	1888.3	1881.9	1845.7	1807.3	1736.8	1700.6	1651.5	1630.2
52.5°	1677.1	1696.3	1683.5	1679.2	1672.8	1636.6	1606.7	1549.1	1519.2	1497.9	1472.3
55°	1468.0	1489.3	1480.8	1474.4	1472.3	1442.4	1414.7	1372.0	1352.8	1337.8	1322.9
57.5°	1290.9	1288.8	1284.5	1278.1	1280.2	1256.8	1229.0	1205.6	1197.0	1190.6	1194.9
60°	1086.1	1103.1	1096.7	1098.9	1101.0	1096.7	1073.3	1058.3	1060.5	1062.6	1069.0
62.5°	917.5	932.4	943.1	934.6	938.8	945.2	932.4	928.2	936.7	945.2	953.8
65°	761.7	776.7	787.3	785.2	798.0	810.8	808.7	812.9	832.2	842.8	853.5
67.5°	620.9	635.8	650.8	652.9	672.1	691.3	699.9	714.8	736.1	751.1	763.9
70°	499.3	512.1	529.2	539.8	565.4	591.0	606.0	635.8	648.7	670.0	678.5
72.5°	390.5	401.1	424.6	450.2	471.6	503.6	533.4	559.0	578.2	601.7	612.4
75°	305.1	309.4	335.0	364.9	394.7	431.0	463.0	490.8	516.4	539.8	556.9
77.5°	224.0	230.4	253.9	294.5	328.6	367.0	403.3	433.1	460.9	484.4	507.8
80°	155.8	168.6	194.2	234.7	273.1	315.8	349.9	384.1	413.9	437.4	460.9
82.5°	100.3	111.0	147.2	187.8	228.3	271.0	307.3	341.4	373.4	399.0	420.3
85°	55.5	70.4	106.7	149.4	189.9	232.6	271.0	305.1	337.1	360.6	381.9
87.5°	21.3	42.7	76.8	117.4	157.9	198.4	239.0	271.0	303.0	328.6	347.8
90°	0.0	25.6	57.6	98.2	138.7	179.2	217.6	251.8	281.7	305.1	326.5
92.5°	2.1	17.1	44.8	78.9	117.4	155.8	192.0	226.2	256.0	279.5	298.7
95°	2.1	12.8	36.3	68.3	102.4	138.7	172.8	204.8	232.6	256.0	275.3
97.5°	2.1	8.5	29.9	59.7	89.6	125.9	157.9	187.8	213.4	236.8	251.8
100°	2.1	8.5	25.6	51.2	81.1	113.1	143.0	172.8	196.3	215.5	232.6
102.5°	2.1	6.4	21.3	44.8	72.5	100.3	130.2	157.9	179.2	198.4	215.5
105°	2.1	6.4	19.2	38.4	64.0	91.8	117.4	143.0	166.4	183.5	198.4
107.5°	2.1	4.3	17.1	32.0	55.5	83.2	108.8	130.2	151.5	168.6	183.5
110°	2.1	4.3	14.9	29.9	49.1	74.7	98.2	119.5	138.7	155.8	168.6



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CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.1	4.3	12.8	27.7	44.8	66.1	89.6	108.8	128.0	143.0	155.8
115°	2.1	4.3	12.8	25.6	40.5	57.6	78.9	100.3	115.2	132.3	143.0
117.5°	2.1	4.3	10.7	21.3	38.4	53.3	72.5	89.6	106.7	121.6	132.3
120°	2.1	4.3	10.7	19.2	34.1	49.1	64.0	81.1	98.2	108.8	119.5
122.5°	2.1	4.3	8.5	19.2	29.9	44.8	57.6	72.5	87.5	100.3	111.0
125°	2.1	4.3	8.5	17.1	27.7	40.5	53.3	64.0	78.9	89.6	100.3
127.5°	2.1	4.3	8.5	14.9	25.6	36.3	49.1	59.7	70.4	81.1	89.6
130°	2.1	4.3	6.4	12.8	23.5	32.0	42.7	55.5	64.0	72.5	81.1
132.5°	2.1	4.3	6.4	12.8	19.2	27.7	38.4	49.1	57.6	66.1	72.5
135°	2.1	4.3	6.4	10.7	17.1	25.6	32.0	42.7	51.2	59.7	66.1
137.5°	2.1	4.3	6.4	10.7	14.9	21.3	27.7	36.3	44.8	51.2	59.7
140°	2.1	4.3	6.4	8.5	12.8	19.2	25.6	29.9	38.4	44.8	51.2
142.5°	2.1	4.3	6.4	8.5	12.8	17.1	21.3	25.6	32.0	38.4	44.8
145°	2.1	4.3	6.4	8.5	10.7	14.9	19.2	23.5	25.6	32.0	36.3
147.5°	2.1	4.3	6.4	8.5	8.5	12.8	17.1	19.2	23.5	25.6	29.9
150°	2.1	4.3	6.4	6.4	8.5	10.7	14.9	17.1	19.2	23.5	25.6
152.5°	2.1	4.3	6.4	6.4	8.5	10.7	12.8	14.9	17.1	19.2	21.3
155°	2.1	4.3	6.4	6.4	6.4	8.5	10.7	12.8	14.9	17.1	19.2
157.5°	4.3	4.3	4.3	6.4	6.4	8.5	8.5	10.7	12.8	12.8	14.9
160°	4.3	4.3	4.3	6.4	6.4	6.4	8.5	8.5	10.7	10.7	12.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3855.6	3862.0	3881.2	3881.2	3877.0	3872.7	3872.7	3866.3	3870.6	3879.1	3874.8
5°	3855.6	3862.0	3881.2	3881.2	3877.0	3872.7	3870.6	3864.2	3870.6	3879.1	3874.8
7.5°	3842.8	3851.4	3870.6	3870.6	3866.3	3864.2	3859.9	3855.6	3862.0	3870.6	3866.3
10°	3825.8	3834.3	3853.5	3853.5	3849.2	3849.2	3842.8	3838.6	3847.1	3853.5	3851.4
12.5°	3800.2	3810.8	3827.9	3825.8	3821.5	3823.6	3817.2	3808.7	3817.2	3823.6	3825.8
15°	3763.9	3776.7	3793.8	3789.5	3783.1	3787.4	3776.7	3770.3	3776.7	3789.5	3787.4
17.5°	3716.9	3725.5	3738.3	3738.3	3731.9	3727.6	3723.3	3716.9	3721.2	3729.7	3731.9
20°	3650.8	3661.5	3667.9	3661.5	3659.3	3652.9	3644.4	3638.0	3646.5	3659.3	3661.5
22.5°	3563.3	3565.5	3580.4	3565.5	3554.8	3552.6	3544.1	3531.3	3544.1	3554.8	3556.9
25°	3454.5	3465.2	3458.8	3433.2	3433.2	3416.1	3411.8	3405.4	3407.6	3426.8	3435.3
27.5°	3315.8	3320.1	3303.0	3281.7	3262.5	3251.8	3236.9	3239.0	3239.0	3264.6	3273.1
30°	3164.3	3140.8	3125.9	3091.8	3076.8	3051.2	3047.0	3047.0	3042.7	3055.5	3093.9
32.5°	2982.9	2950.9	2927.5	2895.5	2869.9	2844.3	2831.4	2837.9	2835.7	2867.7	2880.5
35°	2784.5	2765.3	2716.2	2675.7	2660.8	2622.3	2622.3	2603.1	2615.9	2652.2	2667.2
37.5°	2575.4	2545.5	2505.0	2460.2	2449.5	2419.6	2409.0	2398.3	2426.0	2432.4	2447.4
40°	2362.0	2334.3	2295.9	2253.2	2253.2	2216.9	2216.9	2216.9	2219.1	2231.9	2259.6
42.5°	2159.3	2129.5	2095.3	2065.4	2061.2	2033.4	2033.4	2031.3	2035.6	2046.2	2071.8
45°	1963.0	1939.6	1903.3	1888.3	1890.5	1860.6	1867.0	1860.6	1869.1	1879.8	1888.3
47.5°	1781.7	1766.7	1751.8	1730.4	1724.0	1721.9	1711.2	1702.7	1717.6	1717.6	1730.4
50°	1613.1	1604.6	1596.0	1583.2	1585.4	1576.8	1564.0	1564.0	1574.7	1576.8	1585.4
52.5°	1465.9	1455.2	1444.5	1446.7	1448.8	1444.5	1438.1	1431.7	1438.1	1442.4	1453.1
55°	1318.6	1310.1	1320.8	1316.5	1320.8	1316.5	1312.2	1308.0	1318.6	1312.2	1322.9
57.5°	1186.3	1194.9	1199.2	1190.6	1197.0	1192.8	1194.9	1188.5	1197.0	1201.3	1199.2
60°	1064.7	1077.5	1071.1	1073.3	1081.8	1077.5	1069.0	1075.4	1083.9	1086.1	1083.9
62.5°	953.8	968.7	975.1	970.8	973.0	968.7	975.1	966.6	977.2	981.5	975.1
65°	853.5	870.6	874.8	874.8	874.8	870.6	877.0	879.1	883.4	883.4	879.1
67.5°	768.1	783.1	787.3	791.6	787.3	783.1	783.1	785.2	793.7	798.0	793.7
70°	691.3	706.3	708.4	708.4	710.5	714.8	706.3	710.5	716.9	719.1	716.9
72.5°	625.2	640.1	644.4	642.3	644.4	646.5	646.5	642.3	648.7	652.9	652.9
75°	571.8	580.4	584.6	584.6	586.8	588.9	588.9	586.8	591.0	593.2	595.3
77.5°	522.8	529.2	535.6	535.6	537.7	535.6	539.8	539.8	542.0	544.1	546.2
80°	473.7	482.2	486.5	488.6	492.9	495.0	495.0	495.0	497.2	499.3	499.3
82.5°	435.3	441.7	448.1	454.5	454.5	456.6	456.6	456.6	458.8	458.8	460.9
85°	396.9	405.4	411.8	416.1	418.2	420.3	420.3	422.5	422.5	422.5	424.6
87.5°	362.7	373.4	377.7	381.9	384.1	388.3	388.3	388.3	390.5	390.5	390.5
90°	339.3	349.9	354.2	358.5	360.6	362.7	362.7	364.9	364.9	367.0	367.0
92.5°	311.5	322.2	330.7	330.7	332.9	337.1	335.0	335.0	337.1	339.3	339.3
95°	290.2	298.7	305.1	307.3	309.4	309.4	309.4	311.5	309.4	311.5	311.5
97.5°	264.6	273.1	279.5	283.8	285.9	285.9	285.9	288.1	285.9	288.1	288.1
100°	243.2	251.8	258.2	260.3	264.6	264.6	264.6	264.6	264.6	264.6	266.7
102.5°	226.2	234.7	239.0	241.1	243.2	245.4	245.4	245.4	245.4	247.5	247.5
105°	209.1	217.6	221.9	224.0	226.2	228.3	228.3	228.3	230.4	230.4	228.3
107.5°	194.2	200.6	204.8	209.1	211.2	211.2	213.4	213.4	213.4	213.4	213.4
110°	179.2	185.6	192.0	196.3	196.3	198.4	198.4	200.6	200.6	198.4	200.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.3	172.8	177.1	181.4	183.5	185.6	185.6	185.6	185.6	185.6	185.6
115°	151.5	160.0	164.3	168.6	170.7	172.8	172.8	172.8	172.8	172.8	172.8
117.5°	140.8	149.4	153.6	155.8	157.9	160.0	162.2	162.2	162.2	162.2	160.0
120°	130.2	136.6	140.8	145.1	147.2	149.4	149.4	149.4	149.4	149.4	149.4
122.5°	119.5	125.9	130.2	134.4	136.6	138.7	138.7	138.7	138.7	138.7	138.7
125°	108.8	115.2	119.5	123.8	125.9	128.0	128.0	128.0	128.0	128.0	128.0
127.5°	98.2	104.6	111.0	113.1	115.2	117.4	117.4	117.4	119.5	117.4	117.4
130°	87.5	93.9	100.3	102.4	104.6	106.7	108.8	108.8	108.8	108.8	106.7
132.5°	78.9	85.3	89.6	91.8	96.0	96.0	98.2	98.2	98.2	98.2	96.0
135°	72.5	76.8	81.1	83.2	87.5	87.5	87.5	89.6	89.6	87.5	85.3
137.5°	64.0	68.3	72.5	74.7	76.8	78.9	78.9	81.1	78.9	78.9	78.9
140°	59.7	61.9	66.1	68.3	70.4	70.4	70.4	72.5	72.5	70.4	70.4
142.5°	51.2	55.5	59.7	61.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
145°	42.7	49.1	51.2	55.5	55.5	57.6	57.6	57.6	57.6	57.6	55.5
147.5°	36.3	40.5	46.9	49.1	49.1	51.2	51.2	51.2	51.2	51.2	49.1
150°	27.7	32.0	38.4	42.7	42.7	44.8	44.8	44.8	44.8	42.7	42.7
152.5°	23.5	27.7	29.9	34.1	36.3	36.3	36.3	38.4	36.3	36.3	36.3
155°	21.3	23.5	25.6	27.7	29.9	32.0	32.0	32.0	32.0	29.9	29.9
157.5°	17.1	19.2	21.3	23.5	25.6	27.7	27.7	27.7	27.7	27.7	25.6
160°	12.8	14.9	17.1	17.1	19.2	21.3	23.5	21.3	21.3	21.3	21.3
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3870.6	3868.4	3874.8	3864.2	3832.2	3840.7	3836.4	3855.6	3859.9	3864.2	3883.4
5°	3870.6	3868.4	3872.7	3864.2	3830.0	3836.4	3832.2	3851.4	3855.6	3857.8	3877.0
7.5°	3862.0	3859.9	3866.3	3855.6	3819.4	3827.9	3821.5	3840.7	3842.8	3845.0	3862.0
10°	3845.0	3842.8	3847.1	3838.6	3802.3	3810.8	3802.3	3821.5	3821.5	3825.8	3838.6
12.5°	3819.4	3815.1	3823.6	3813.0	3772.4	3783.1	3778.8	3791.6	3793.8	3795.9	3808.7
15°	3783.1	3778.8	3785.2	3778.8	3742.5	3744.7	3738.3	3757.5	3759.6	3755.4	3768.2
17.5°	3729.7	3725.5	3738.3	3734.0	3697.7	3706.3	3704.1	3708.4	3714.8	3704.1	3721.2
20°	3663.6	3667.9	3672.1	3674.3	3646.5	3646.5	3644.4	3652.9	3659.3	3650.8	3663.6
22.5°	3565.5	3576.1	3588.9	3593.2	3574.0	3571.9	3584.7	3580.4	3586.8	3582.5	3591.1
25°	3441.7	3463.0	3475.8	3488.6	3478.0	3482.2	3501.4	3505.7	3505.7	3503.6	3512.1
27.5°	3288.1	3315.8	3339.3	3367.0	3356.3	3364.9	3396.9	3401.2	3409.7	3401.2	3418.2
30°	3104.6	3130.2	3175.0	3215.5	3219.8	3232.6	3277.4	3281.7	3305.1	3296.6	3303.0
32.5°	2921.1	2933.9	2985.1	3025.6	3051.2	3083.2	3132.3	3140.8	3172.8	3179.2	3179.2
35°	2690.6	2726.9	2773.8	2831.4	2863.5	2897.6	2963.7	2976.5	3023.5	3038.4	3055.5
37.5°	2496.5	2530.6	2560.5	2620.2	2677.8	2716.2	2769.6	2801.6	2850.7	2878.4	2899.7
40°	2289.5	2317.2	2349.2	2409.0	2458.0	2515.7	2569.0	2607.4	2669.3	2701.3	2729.0
42.5°	2093.2	2114.5	2148.7	2191.3	2242.5	2306.6	2357.8	2402.6	2468.7	2513.5	2545.5
45°	1918.2	1931.0	1960.9	1992.9	2037.7	2103.9	2152.9	2210.5	2263.9	2310.8	2349.2
47.5°	1753.9	1771.0	1785.9	1807.3	1847.8	1888.3	1946.0	2001.4	2054.8	2106.0	2144.4
50°	1602.4	1602.4	1625.9	1640.8	1668.6	1704.8	1749.7	1788.1	1854.2	1890.5	1939.6
52.5°	1455.2	1463.7	1476.5	1485.1	1506.4	1529.9	1566.2	1598.2	1653.6	1687.8	1734.7
55°	1325.0	1333.6	1340.0	1344.2	1357.0	1384.8	1397.6	1423.2	1461.6	1489.3	1529.9
57.5°	1201.3	1205.6	1212.0	1214.1	1216.2	1233.3	1244.0	1250.4	1288.8	1316.5	1350.6
60°	1088.2	1088.2	1094.6	1092.5	1090.3	1098.9	1096.7	1103.1	1126.6	1143.7	1158.6
62.5°	981.5	981.5	983.6	979.4	977.2	977.2	968.7	975.1	981.5	983.6	994.3
65°	883.4	894.0	885.5	887.6	874.8	870.6	866.3	853.5	851.4	842.8	847.1
67.5°	795.9	804.4	795.9	795.9	785.2	776.7	766.0	744.7	738.3	721.2	716.9
70°	725.5	719.1	723.3	716.9	704.1	693.5	678.5	661.5	640.1	618.8	603.8
72.5°	657.2	657.2	652.9	646.5	640.1	618.8	601.7	582.5	556.9	529.2	507.8
75°	591.0	593.2	593.2	586.8	576.1	556.9	537.7	510.0	482.2	450.2	422.5
77.5°	544.1	544.1	544.1	533.4	522.8	505.7	482.2	452.3	422.5	384.1	352.1
80°	499.3	497.2	497.2	484.4	473.7	454.5	431.0	401.1	369.1	328.6	292.3
82.5°	463.0	460.9	456.6	445.9	431.0	411.8	388.3	356.3	322.2	285.9	241.1
85°	424.6	422.5	418.2	407.5	392.6	375.5	349.9	317.9	283.8	243.2	200.6
87.5°	390.5	388.3	381.9	375.5	358.5	339.3	313.7	283.8	247.5	209.1	166.4
90°	367.0	362.7	358.5	349.9	335.0	313.7	288.1	256.0	219.8	181.4	138.7
92.5°	339.3	337.1	330.7	322.2	309.4	288.1	262.4	232.6	196.3	160.0	119.5
95°	311.5	309.4	305.1	296.6	283.8	264.6	241.1	211.2	177.1	140.8	104.6
97.5°	285.9	285.9	279.5	273.1	258.2	243.2	219.8	192.0	160.0	128.0	93.9
100°	264.6	264.6	258.2	249.6	239.0	224.0	200.6	175.0	145.1	115.2	81.1
102.5°	245.4	243.2	239.0	230.4	219.8	204.8	183.5	160.0	132.3	102.4	72.5
105°	228.3	226.2	221.9	213.4	204.8	187.8	170.7	147.2	119.5	91.8	64.0
107.5°	211.2	209.1	207.0	198.4	187.8	172.8	155.8	132.3	108.8	83.2	57.6
110°	196.3	194.2	189.9	181.4	170.7	157.9	140.8	121.6	98.2	74.7	51.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	183.5	181.4	177.1	168.6	160.0	145.1	130.2	108.8	89.6	68.3	44.8
115°	170.7	168.6	164.3	155.8	145.1	132.3	117.4	100.3	78.9	59.7	40.5
117.5°	157.9	155.8	151.5	145.1	134.4	121.6	106.7	89.6	70.4	55.5	36.3
120°	147.2	143.0	138.7	132.3	121.6	111.0	96.0	81.1	64.0	49.1	32.0
122.5°	136.6	132.3	128.0	121.6	111.0	100.3	85.3	72.5	59.7	44.8	29.9
125°	123.8	121.6	117.4	111.0	100.3	89.6	78.9	66.1	53.3	40.5	25.6
127.5°	113.1	111.0	106.7	98.2	89.6	81.1	70.4	59.7	46.9	34.1	23.5
130°	104.6	100.3	96.0	89.6	83.2	74.7	64.0	53.3	42.7	29.9	21.3
132.5°	93.9	89.6	85.3	81.1	74.7	66.1	57.6	46.9	38.4	27.7	19.2
135°	85.3	81.1	76.8	72.5	66.1	59.7	51.2	42.7	34.1	25.6	17.1
137.5°	74.7	72.5	70.4	66.1	59.7	53.3	46.9	36.3	29.9	23.5	14.9
140°	68.3	66.1	64.0	57.6	53.3	46.9	40.5	32.0	25.6	19.2	12.8
142.5°	61.9	59.7	55.5	51.2	46.9	42.7	34.1	29.9	23.5	17.1	12.8
145°	53.3	51.2	49.1	44.8	40.5	34.1	29.9	25.6	21.3	14.9	10.7
147.5°	49.1	46.9	42.7	38.4	34.1	29.9	27.7	23.5	17.1	12.8	8.5
150°	40.5	38.4	36.3	32.0	29.9	27.7	23.5	19.2	14.9	10.7	8.5
152.5°	34.1	32.0	29.9	29.9	25.6	23.5	19.2	17.1	12.8	10.7	6.4
155°	29.9	29.9	27.7	25.6	21.3	19.2	17.1	12.8	10.7	8.5	6.4
157.5°	25.6	23.5	21.3	21.3	19.2	17.1	12.8	10.7	8.5	8.5	6.4
160°	21.3	19.2	19.2	17.1	14.9	12.8	10.7	10.7	8.5	6.4	6.4
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-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3885.5	3862.0	3883.4	3911.1	3911.1	3906.8	3902.6	3911.1	3932.5	3923.9	3898.3
5°	3879.1	3855.6	3874.8	3902.6	3902.6	3896.2	3891.9	3898.3	3921.8	3911.1	3887.6
7.5°	3866.3	3845.0	3857.8	3883.4	3883.4	3877.0	3872.7	3881.2	3900.4	3889.8	3864.2
10°	3842.8	3819.4	3834.3	3857.8	3855.6	3851.4	3845.0	3855.6	3872.7	3857.8	3827.9
12.5°	3813.0	3789.5	3802.3	3823.6	3821.5	3813.0	3808.7	3815.1	3830.0	3821.5	3789.5
15°	3772.4	3749.0	3759.6	3781.0	3774.6	3768.2	3759.6	3761.8	3781.0	3766.0	3731.9
17.5°	3723.3	3697.7	3706.3	3725.5	3719.1	3712.7	3702.0	3704.1	3725.5	3704.1	3667.9
20°	3663.6	3635.9	3642.3	3665.7	3655.1	3644.4	3633.7	3633.7	3655.1	3631.6	3591.1
22.5°	3599.6	3571.9	3576.1	3593.2	3584.7	3565.5	3554.8	3561.2	3571.9	3542.0	3499.3
25°	3520.6	3484.4	3490.8	3507.8	3501.4	3475.8	3465.2	3469.4	3465.2	3441.7	3396.9
27.5°	3428.9	3390.5	3394.8	3405.4	3396.9	3373.4	3360.6	3362.7	3354.2	3324.3	3273.1
30°	3313.7	3294.5	3292.3	3298.7	3285.9	3262.5	3247.5	3243.3	3241.1	3198.4	3136.6
32.5°	3196.3	3179.2	3168.6	3177.1	3162.2	3138.7	3113.1	3113.1	3091.8	3051.2	2997.9
35°	3076.8	3049.1	3038.4	3044.8	3027.8	2997.9	2976.5	2965.9	2933.9	2882.7	2825.0
37.5°	2923.2	2904.0	2891.2	2897.6	2878.4	2857.1	2816.5	2805.8	2771.7	2701.3	2628.7
40°	2756.8	2741.8	2729.0	2735.4	2714.1	2682.1	2645.8	2628.7	2590.3	2511.4	2453.8
42.5°	2577.5	2571.1	2556.2	2579.7	2537.0	2505.0	2468.7	2441.0	2402.6	2317.2	2251.1
45°	2387.6	2402.6	2368.4	2374.8	2347.1	2319.4	2280.9	2240.4	2202.0	2120.9	2046.2
47.5°	2187.1	2197.7	2174.3	2178.5	2148.7	2123.1	2088.9	2037.7	1995.0	1924.6	1858.5
50°	1980.1	1975.8	1975.8	1971.6	1948.1	1916.1	1881.9	1835.0	1792.3	1728.3	1672.8
52.5°	1760.3	1768.9	1773.1	1783.8	1753.9	1734.7	1681.4	1640.8	1608.8	1542.7	1495.7
55°	1549.1	1579.0	1570.4	1574.7	1540.5	1525.6	1482.9	1450.9	1404.0	1365.6	1335.7
57.5°	1357.0	1363.4	1367.7	1374.1	1359.2	1329.3	1295.2	1269.6	1233.3	1201.3	1179.9
60°	1171.4	1171.4	1173.5	1184.2	1169.3	1143.7	1118.1	1098.9	1073.3	1054.1	1041.3
62.5°	996.4	1011.4	1013.5	1005.0	985.8	973.0	955.9	945.2	928.2	921.8	917.5
65°	834.3	834.3	834.3	838.6	827.9	819.3	808.7	806.5	812.9	804.4	808.7
67.5°	697.7	691.3	687.1	689.2	684.9	680.7	678.5	684.9	697.7	697.7	708.4
70°	580.4	567.6	559.0	559.0	559.0	561.2	567.6	580.4	601.7	610.2	625.2
72.5°	484.4	456.6	443.8	443.8	445.9	454.5	473.7	497.2	516.4	533.4	552.6
75°	392.6	364.9	345.7	343.5	347.8	360.6	388.3	409.7	441.7	465.2	488.6
77.5°	317.9	283.8	260.3	258.2	264.6	283.8	317.9	345.7	381.9	407.5	433.1
80°	253.9	215.5	196.3	183.5	194.2	217.6	256.0	290.2	324.3	358.5	390.5
82.5°	202.7	166.4	136.6	123.8	136.6	168.6	204.8	245.4	279.5	315.8	347.8
85°	160.0	121.6	87.5	74.7	89.6	123.8	164.3	204.8	243.2	279.5	311.5
87.5°	125.9	87.5	53.3	36.3	55.5	91.8	130.2	170.7	211.2	247.5	279.5
90°	98.2	61.9	29.9	4.3	32.0	66.1	104.6	143.0	183.5	219.8	251.8
92.5°	83.2	46.9	17.1	0.0	19.2	49.1	85.3	123.8	160.0	196.3	228.3
95°	70.4	38.4	12.8	0.0	12.8	38.4	70.4	104.6	140.8	177.1	209.1
97.5°	59.7	29.9	8.5	0.0	8.5	29.9	57.6	91.8	123.8	157.9	187.8
100°	51.2	25.6	6.4	0.0	6.4	23.5	49.1	78.9	111.0	143.0	170.7
102.5°	44.8	21.3	4.3	0.0	4.3	19.2	40.5	68.3	96.0	125.9	153.6
105°	38.4	17.1	4.3	0.0	2.1	14.9	34.1	59.7	85.3	113.1	138.7
107.5°	34.1	14.9	4.3	0.0	2.1	12.8	29.9	51.2	76.8	100.3	123.8
110°	29.9	12.8	4.3	0.0	2.1	8.5	25.6	44.8	66.1	89.6	113.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.6	10.7	2.1	0.0	0.0	6.4	21.3	38.4	57.6	81.1	100.3
115°	23.5	10.7	2.1	0.0	0.0	4.3	17.1	34.1	51.2	72.5	89.6
117.5°	21.3	8.5	2.1	0.0	2.1	4.3	14.9	29.9	44.8	61.9	81.1
120°	19.2	8.5	2.1	0.0	2.1	2.1	10.7	25.6	38.4	55.5	70.4
122.5°	17.1	8.5	2.1	0.0	2.1	2.1	8.5	21.3	34.1	49.1	61.9
125°	14.9	6.4	4.3	2.1	2.1	2.1	6.4	17.1	29.9	40.5	55.5
127.5°	14.9	6.4	4.3	2.1	2.1	2.1	4.3	14.9	23.5	36.3	49.1
130°	12.8	6.4	4.3	2.1	2.1	2.1	2.1	10.7	21.3	29.9	40.5
132.5°	10.7	6.4	4.3	2.1	2.1	2.1	2.1	6.4	14.9	25.6	34.1
135°	10.7	6.4	4.3	2.1	2.1	2.1	2.1	4.3	10.7	19.2	27.7
137.5°	8.5	4.3	4.3	2.1	2.1	2.1	2.1	2.1	8.5	14.9	21.3
140°	8.5	4.3	4.3	2.1	2.1	2.1	2.1	2.1	6.4	10.7	17.1
142.5°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	4.3	8.5	12.8
145°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	8.5
147.5°	6.4	6.4	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	6.4
150°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.3
152.5°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.3
155°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	4.3
157.5°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.3
160°	6.4	4.3	4.3	2.1	4.3	2.1	4.3	4.3	4.3	4.3	4.3
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3889.8	3849.2	3870.6	3864.2	3872.7	3889.8	3887.6	3883.4	3883.4	3877.0	3868.4
5°	3877.0	3838.6	3857.8	3847.1	3857.8	3872.7	3870.6	3864.2	3868.4	3857.8	3847.1
7.5°	3851.4	3817.2	3834.3	3825.8	3834.3	3849.2	3842.8	3840.7	3845.0	3827.9	3821.5
10°	3821.5	3783.1	3802.3	3791.6	3802.3	3813.0	3808.7	3800.2	3808.7	3791.6	3785.2
12.5°	3774.6	3742.5	3755.4	3751.1	3757.5	3768.2	3759.6	3753.2	3757.5	3742.5	3729.7
15°	3723.3	3691.3	3702.0	3695.6	3699.9	3712.7	3697.7	3695.6	3691.3	3676.4	3672.1
17.5°	3657.2	3627.3	3638.0	3627.3	3633.7	3629.5	3627.3	3616.7	3616.7	3599.6	3586.8
20°	3576.1	3550.5	3544.1	3535.6	3544.1	3535.6	3522.8	3514.2	3512.1	3495.0	3484.4
22.5°	3482.2	3452.4	3456.6	3433.2	3435.3	3422.5	3401.2	3392.6	3384.1	3364.9	3349.9
25°	3369.1	3339.3	3317.9	3303.0	3283.8	3281.7	3253.9	3232.6	3230.5	3207.0	3204.9
27.5°	3241.1	3207.0	3189.9	3153.6	3130.2	3111.0	3087.5	3066.2	3055.5	3029.9	3012.8
30°	3093.9	3055.5	3012.8	2987.2	2950.9	2936.0	2895.5	2869.9	2861.3	2833.6	2820.8
32.5°	2927.5	2886.9	2852.8	2803.7	2763.2	2741.8	2701.3	2675.7	2665.0	2635.1	2618.1
35°	2746.1	2701.3	2660.8	2613.8	2581.8	2545.5	2496.5	2470.9	2447.4	2436.7	2423.9
37.5°	2556.2	2507.1	2460.2	2413.2	2385.5	2342.8	2300.2	2283.1	2255.3	2244.7	2231.9
40°	2359.9	2310.8	2266.0	2221.2	2189.2	2150.8	2112.4	2106.0	2076.1	2065.4	2056.9
42.5°	2165.7	2114.5	2063.3	2031.3	2007.8	1969.4	1943.8	1937.4	1911.8	1905.4	1905.4
45°	1990.8	1926.8	1884.1	1856.3	1837.1	1805.1	1783.8	1779.5	1758.2	1753.9	1753.9
47.5°	1803.0	1743.3	1711.2	1694.2	1677.1	1653.6	1640.8	1640.8	1619.5	1615.2	1613.1
50°	1628.0	1572.6	1549.1	1532.0	1529.9	1512.8	1502.1	1497.9	1497.9	1482.9	1485.1
52.5°	1461.6	1433.9	1414.7	1404.0	1391.2	1380.5	1372.0	1372.0	1365.6	1354.9	1359.2
55°	1308.0	1276.0	1278.1	1269.6	1263.2	1256.8	1258.9	1246.1	1244.0	1235.4	1241.8
57.5°	1154.3	1154.3	1150.1	1143.7	1133.0	1137.3	1137.3	1137.3	1126.6	1120.2	1126.6
60°	1024.2	1030.6	1019.9	1026.3	1022.1	1024.2	1019.9	1019.9	1013.5	1011.4	1013.5
62.5°	909.0	919.6	915.4	923.9	919.6	921.8	926.0	917.5	913.2	909.0	913.2
65°	806.5	819.3	817.2	823.6	825.8	827.9	830.0	825.8	821.5	817.2	815.1
67.5°	716.9	729.7	738.3	740.4	742.5	748.9	746.8	742.5	738.3	731.9	729.7
70°	635.8	652.9	663.6	667.9	676.4	672.1	672.1	670.0	665.7	659.3	657.2
72.5°	567.6	586.8	597.4	601.7	610.2	610.2	608.1	606.0	601.7	595.3	593.2
75°	507.8	524.9	539.8	548.4	554.8	554.8	552.6	550.5	546.2	542.0	539.8
77.5°	460.9	475.8	488.6	499.3	503.6	505.7	503.6	499.3	499.3	497.2	495.0
80°	413.9	431.0	443.8	454.5	460.9	460.9	458.8	460.9	456.6	454.5	452.3
82.5°	373.4	392.6	407.5	418.2	422.5	424.6	422.5	424.6	420.3	420.3	420.3
85°	337.1	356.3	373.4	381.9	388.3	390.5	390.5	390.5	388.3	388.3	388.3
87.5°	307.3	326.5	343.5	352.1	358.5	360.6	360.6	362.7	358.5	358.5	358.5
90°	279.5	298.7	315.8	324.3	330.7	335.0	335.0	337.1	335.0	332.9	332.9
92.5°	253.9	275.3	292.3	300.9	307.3	313.7	313.7	315.8	311.5	311.5	311.5
95°	232.6	253.9	268.8	279.5	285.9	290.2	292.3	292.3	290.2	290.2	290.2
97.5°	213.4	232.6	247.5	258.2	264.6	266.7	268.8	271.0	268.8	268.8	268.8
100°	194.2	213.4	228.3	236.8	245.4	247.5	249.6	251.8	251.8	249.6	249.6
102.5°	177.1	196.3	209.1	219.8	226.2	230.4	232.6	232.6	232.6	232.6	232.6
105°	160.0	179.2	192.0	202.7	209.1	213.4	215.5	217.6	217.6	215.5	215.5
107.5°	145.1	162.2	177.1	185.6	194.2	198.4	200.6	200.6	202.7	200.6	200.6
110°	130.2	149.4	162.2	170.7	179.2	183.5	185.6	187.8	187.8	187.8	187.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	119.5	134.4	147.2	155.8	164.3	168.6	170.7	172.8	175.0	172.8	172.8
115°	106.7	121.6	134.4	143.0	149.4	153.6	157.9	160.0	160.0	162.2	160.0
117.5°	96.0	108.8	121.6	130.2	136.6	143.0	145.1	147.2	149.4	147.2	147.2
120°	85.3	98.2	108.8	117.4	123.8	130.2	132.3	134.4	136.6	134.4	134.4
122.5°	76.8	87.5	98.2	106.7	113.1	117.4	121.6	121.6	123.8	123.8	123.8
125°	68.3	78.9	87.5	96.0	102.4	106.7	108.8	111.0	111.0	113.1	113.1
127.5°	59.7	68.3	78.9	85.3	91.8	96.0	98.2	100.3	100.3	102.4	102.4
130°	51.2	59.7	68.3	74.7	81.1	85.3	87.5	89.6	91.8	91.8	91.8
132.5°	44.8	53.3	59.7	66.1	70.4	74.7	78.9	81.1	81.1	81.1	81.1
135°	36.3	44.8	51.2	57.6	61.9	66.1	68.3	72.5	72.5	72.5	72.5
137.5°	29.9	38.4	44.8	49.1	53.3	57.6	59.7	61.9	64.0	64.0	64.0
140°	23.5	29.9	36.3	42.7	46.9	49.1	53.3	53.3	55.5	55.5	55.5
142.5°	17.1	23.5	27.7	34.1	38.4	42.7	44.8	46.9	46.9	46.9	46.9
145°	12.8	17.1	21.3	25.6	32.0	34.1	36.3	38.4	40.5	40.5	40.5
147.5°	8.5	12.8	14.9	19.2	23.5	27.7	29.9	32.0	34.1	34.1	34.1
150°	6.4	8.5	12.8	14.9	17.1	21.3	25.6	25.6	27.7	27.7	25.6
152.5°	4.3	6.4	8.5	10.7	12.8	14.9	19.2	19.2	21.3	21.3	21.3
155°	4.3	4.3	4.3	6.4	8.5	10.7	12.8	14.9	14.9	14.9	14.9
157.5°	4.3	4.3	4.3	4.3	4.3	6.4	8.5	10.7	10.7	10.7	10.7
160°	4.3	4.3	2.1	2.1	4.3	4.3	4.3	4.3	6.4	6.4	6.4
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-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3874.8	3879.1	3879.1	3874.8	3872.7	3881.2	3870.6	3830.0	3842.8	3847.1	3859.9
5°	3855.6	3859.9	3859.9	3859.9	3855.6	3864.2	3853.5	3813.0	3827.9	3834.3	3842.8
7.5°	3827.9	3830.0	3834.3	3832.2	3827.9	3840.7	3830.0	3789.5	3800.2	3810.8	3821.5
10°	3791.6	3791.6	3793.8	3798.0	3793.8	3804.4	3793.8	3757.5	3768.2	3774.6	3787.4
12.5°	3742.5	3746.8	3749.0	3746.8	3744.7	3753.2	3749.0	3714.8	3719.1	3731.9	3744.7
15°	3676.4	3676.4	3687.1	3682.8	3682.8	3691.3	3695.6	3657.2	3663.6	3682.8	3695.6
17.5°	3595.3	3597.5	3606.0	3610.3	3608.1	3623.1	3625.2	3595.3	3593.2	3616.7	3629.5
20°	3490.8	3495.0	3505.7	3514.2	3514.2	3531.3	3537.7	3518.5	3520.6	3546.2	3550.5
22.5°	3362.7	3362.7	3381.9	3394.8	3405.4	3416.1	3435.3	3418.2	3418.2	3452.4	3471.6
25°	3204.9	3219.8	3226.2	3251.8	3266.7	3296.6	3313.7	3315.8	3317.9	3349.9	3362.7
27.5°	3029.9	3034.2	3053.4	3083.2	3100.3	3128.0	3160.0	3166.4	3177.1	3219.8	3239.0
30°	2831.4	2844.3	2852.8	2895.5	2918.9	2955.2	2995.7	3010.7	3019.2	3076.8	3100.3
32.5°	2628.7	2633.0	2669.3	2692.8	2720.5	2758.9	2805.8	2833.6	2850.7	2910.4	2944.5
35°	2426.0	2434.6	2464.4	2494.3	2522.1	2560.5	2609.5	2647.9	2677.8	2731.2	2776.0
37.5°	2240.4	2261.7	2268.1	2298.0	2319.4	2357.8	2391.9	2447.4	2477.3	2532.7	2590.3
40°	2074.0	2080.4	2084.6	2114.5	2129.5	2165.7	2214.8	2251.1	2291.6	2332.2	2400.4
42.5°	1909.7	1913.9	1920.4	1937.4	1954.5	1980.1	2016.4	2052.6	2095.3	2155.1	2199.9
45°	1758.2	1762.5	1766.7	1777.4	1792.3	1815.8	1839.3	1864.9	1907.5	1958.8	2005.7
47.5°	1617.4	1625.9	1625.9	1628.0	1638.7	1657.9	1675.0	1707.0	1730.4	1758.2	1811.5
50°	1482.9	1489.3	1491.5	1491.5	1497.9	1510.7	1514.9	1536.3	1557.6	1583.2	1621.6
52.5°	1357.0	1357.0	1354.9	1363.4	1363.4	1372.0	1374.1	1386.9	1401.9	1429.6	1446.7
55°	1237.6	1237.6	1244.0	1239.7	1239.7	1244.0	1241.8	1244.0	1256.8	1273.8	1288.8
57.5°	1122.3	1120.2	1126.6	1122.3	1120.2	1124.5	1128.7	1120.2	1122.3	1139.4	1139.4
60°	1007.1	1009.3	1015.7	1011.4	1011.4	1011.4	1007.1	1002.8	998.6	1009.3	1013.5
62.5°	915.4	909.0	915.4	909.0	913.2	911.1	906.8	898.3	900.4	896.2	891.9
65°	819.3	819.3	821.5	815.1	819.3	819.3	812.9	810.8	798.0	793.7	783.1
67.5°	736.1	736.1	738.3	734.0	734.0	736.1	729.7	723.3	710.5	704.1	689.2
70°	663.6	663.6	663.6	661.5	661.5	661.5	657.2	648.7	635.8	625.2	606.0
72.5°	597.4	599.6	597.4	597.4	603.8	597.4	591.0	582.5	571.8	550.5	533.4
75°	544.1	546.2	544.1	544.1	544.1	542.0	539.8	527.0	514.2	497.2	471.6
77.5°	497.2	497.2	499.3	497.2	497.2	495.0	488.6	478.0	463.0	448.1	418.2
80°	452.3	454.5	456.6	458.8	454.5	452.3	445.9	437.4	418.2	401.1	371.3
82.5°	420.3	418.2	420.3	422.5	418.2	416.1	409.7	399.0	384.1	360.6	330.7
85°	388.3	386.2	386.2	388.3	386.2	381.9	375.5	364.9	349.9	326.5	296.6
87.5°	356.3	358.5	360.6	358.5	356.3	352.1	345.7	335.0	317.9	298.7	266.7
90°	332.9	332.9	332.9	332.9	330.7	326.5	320.1	307.3	292.3	268.8	241.1
92.5°	311.5	311.5	311.5	311.5	309.4	303.0	296.6	285.9	268.8	245.4	219.8
95°	290.2	292.3	290.2	290.2	285.9	283.8	273.1	262.4	247.5	224.0	196.3
97.5°	266.7	268.8	266.7	266.7	264.6	260.3	253.9	241.1	226.2	204.8	179.2
100°	249.6	249.6	247.5	247.5	245.4	241.1	232.6	221.9	207.0	185.6	160.0
102.5°	230.4	232.6	230.4	230.4	226.2	221.9	215.5	204.8	189.9	168.6	145.1
105°	215.5	215.5	213.4	213.4	209.1	204.8	198.4	185.6	172.8	153.6	130.2
107.5°	200.6	200.6	198.4	198.4	194.2	189.9	181.4	170.7	157.9	138.7	117.4
110°	185.6	185.6	185.6	183.5	179.2	172.8	166.4	155.8	143.0	125.9	104.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	175.0	172.8	170.7	168.6	164.3	160.0	151.5	140.8	128.0	113.1	93.9
115°	160.0	160.0	157.9	155.8	151.5	145.1	138.7	130.2	117.4	100.3	83.2
117.5°	147.2	147.2	145.1	143.0	138.7	132.3	125.9	117.4	104.6	89.6	74.7
120°	134.4	134.4	132.3	130.2	125.9	119.5	115.2	104.6	93.9	78.9	66.1
122.5°	123.8	121.6	121.6	117.4	115.2	108.8	102.4	93.9	83.2	70.4	57.6
125°	111.0	111.0	108.8	106.7	104.6	98.2	91.8	83.2	72.5	61.9	51.2
127.5°	100.3	100.3	98.2	96.0	93.9	87.5	81.1	74.7	64.0	53.3	42.7
130°	89.6	89.6	87.5	85.3	83.2	76.8	72.5	64.0	55.5	46.9	36.3
132.5°	81.1	81.1	78.9	76.8	72.5	68.3	64.0	55.5	49.1	40.5	32.0
135°	72.5	70.4	70.4	68.3	64.0	59.7	55.5	49.1	40.5	34.1	25.6
137.5°	64.0	61.9	59.7	57.6	55.5	51.2	46.9	42.7	36.3	27.7	21.3
140°	55.5	53.3	53.3	51.2	46.9	44.8	40.5	34.1	29.9	23.5	17.1
142.5°	46.9	46.9	44.8	42.7	40.5	38.4	34.1	29.9	23.5	19.2	12.8
145°	40.5	38.4	38.4	36.3	34.1	29.9	27.7	23.5	19.2	14.9	10.7
147.5°	32.0	32.0	32.0	29.9	27.7	25.6	23.5	19.2	14.9	10.7	6.4
150°	25.6	25.6	25.6	23.5	21.3	19.2	17.1	14.9	10.7	6.4	4.3
152.5°	21.3	21.3	19.2	19.2	17.1	14.9	12.8	10.7	6.4	4.3	4.3
155°	14.9	14.9	14.9	12.8	12.8	10.7	8.5	6.4	4.3	4.3	4.3
157.5°	10.7	10.7	10.7	8.5	8.5	6.4	6.4	4.3	4.3	4.3	4.3
160°	6.4	6.4	6.4	6.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3853.5	3851.4	3868.4	3868.4	3849.2	3879.1	3911.1
5°	3840.7	3838.6	3855.6	3855.6	3838.6	3868.4	3902.6
7.5°	3815.1	3817.2	3834.3	3838.6	3817.2	3845.0	3881.2
10°	3787.4	3785.2	3804.4	3808.7	3791.6	3817.2	3851.4
12.5°	3742.5	3742.5	3761.8	3768.2	3751.1	3781.0	3813.0
15°	3695.6	3695.6	3708.4	3719.1	3704.1	3731.9	3763.9
17.5°	3635.9	3633.7	3646.5	3659.3	3644.4	3674.3	3708.4
20°	3559.0	3559.0	3574.0	3588.9	3578.3	3606.0	3644.4
22.5°	3478.0	3469.4	3495.0	3505.7	3499.3	3527.0	3565.5
25°	3375.5	3373.4	3399.0	3414.0	3405.4	3435.3	3469.4
27.5°	3264.6	3262.5	3288.1	3307.3	3303.0	3330.7	3369.1
30°	3130.2	3140.8	3164.3	3196.3	3185.6	3215.5	3256.1
32.5°	2989.3	3000.0	3027.8	3061.9	3064.0	3087.5	3128.0
35°	2820.8	2848.5	2867.7	2912.5	2921.1	2944.5	2987.2
37.5°	2643.7	2675.7	2716.2	2750.4	2767.4	2786.6	2835.7
40°	2445.2	2492.2	2537.0	2577.5	2598.9	2618.1	2665.0
42.5°	2266.0	2302.3	2345.0	2385.5	2423.9	2441.0	2490.1
45°	2063.3	2106.0	2144.4	2193.5	2231.9	2251.1	2300.2
47.5°	1864.9	1907.5	1958.8	1992.9	2033.4	2052.6	2099.6
50°	1675.0	1713.4	1756.1	1796.6	1830.7	1847.8	1888.3
52.5°	1487.2	1527.7	1568.3	1593.9	1630.2	1643.0	1677.1
55°	1320.8	1348.5	1384.8	1399.7	1436.0	1444.5	1468.0
57.5°	1160.7	1179.9	1192.8	1218.4	1244.0	1263.2	1290.9
60°	1015.7	1024.2	1032.7	1047.7	1069.0	1075.4	1086.1
62.5°	885.5	883.4	900.4	904.7	906.8	928.2	917.5
65°	770.3	772.4	757.5	751.1	759.6	766.0	761.7
67.5°	674.3	661.5	648.7	633.7	620.9	627.3	620.9
70°	580.4	569.7	548.4	527.0	518.5	505.7	499.3
72.5°	505.7	480.1	458.8	431.0	416.1	401.1	390.5
75°	448.1	411.8	381.9	352.1	330.7	309.4	305.1
77.5°	388.3	354.2	320.1	288.1	256.0	232.6	224.0
80°	341.4	309.4	268.8	230.4	196.3	166.4	155.8
82.5°	298.7	264.6	224.0	183.5	145.1	113.1	100.3
85°	262.4	226.2	185.6	145.1	106.7	72.5	55.5
87.5°	234.7	194.2	153.6	115.2	74.7	40.5	21.3
90°	209.1	170.7	132.3	91.8	53.3	21.3	0.0
92.5°	185.6	149.4	111.0	74.7	40.5	12.8	2.1
95°	164.3	132.3	93.9	59.7	29.9	8.5	2.1
97.5°	147.2	115.2	81.1	49.1	23.5	6.4	2.1
100°	132.3	100.3	70.4	40.5	19.2	4.3	2.1
102.5°	117.4	89.6	59.7	34.1	14.9	2.1	2.1
105°	104.6	78.9	51.2	29.9	12.8	2.1	2.1
107.5°	93.9	70.4	44.8	25.6	8.5	2.1	2.1
110°	83.2	59.7	38.4	21.3	6.4	2.1	2.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	74.7	53.3	34.1	17.1	4.3	2.1	2.1
115°	66.1	46.9	29.9	14.9	4.3	2.1	2.1
117.5°	57.6	40.5	25.6	10.7	2.1	2.1	2.1
120°	51.2	36.3	21.3	8.5	2.1	2.1	2.1
122.5°	44.8	29.9	17.1	6.4	2.1	2.1	2.1
125°	38.4	25.6	14.9	4.3	2.1	2.1	2.1
127.5°	32.0	21.3	10.7	4.3	2.1	2.1	2.1
130°	27.7	17.1	8.5	2.1	2.1	2.1	2.1
132.5°	23.5	12.8	6.4	2.1	2.1	2.1	2.1
135°	19.2	10.7	4.3	2.1	2.1	2.1	2.1
137.5°	14.9	8.5	4.3	2.1	2.1	2.1	2.1
140°	10.7	6.4	2.1	2.1	2.1	2.1	2.1
142.5°	8.5	4.3	2.1	2.1	2.1	2.1	2.1
145°	6.4	4.3	2.1	2.1	2.1	2.1	2.1
147.5°	4.3	4.3	4.3	4.3	2.1	2.1	2.1
150°	4.3	4.3	2.1	2.1	4.3	2.1	2.1
152.5°	4.3	2.1	2.1	2.1	4.3	2.1	2.1
155°	4.3	4.3	4.3	4.3	4.3	4.3	2.1
157.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
160°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)