

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-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-LD5-120SL-LN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

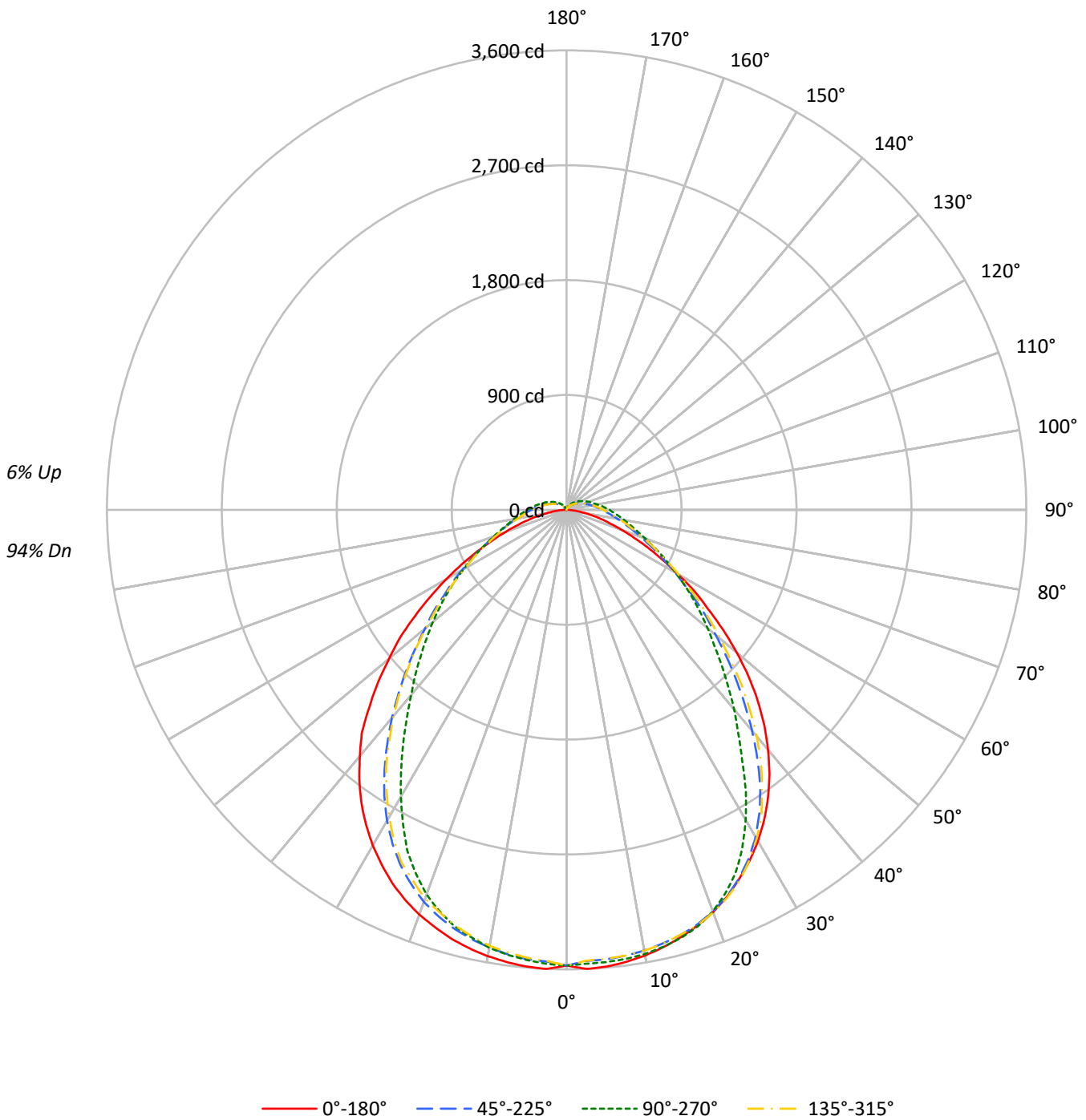
Lumens per Lamp: N/A
Luminaire Lumens: 9035.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-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°	14425	14425	14425	14425
5°	14548	13966	14548	13904
10°	14503	13595	14527	13406
15°	14430	13189	14495	12845
20°	14340	12666	14424	12131
25°	14133	11891	14289	11191
30°	13856	10753	14038	9955
35°	13414	9358	13673	8713
40°	12769	8184	13107	7593
45°	11910	7114	12297	6706
50°	10725	6251	11197	5936
55°	9310	5521	9987	5241
60°	7865	4847	8575	4568
65°	6486	4286	7140	3974
70°	5205	3803	5828	3517
75°	4142	3511	4664	3230
80°	3065	3388	3610	3096
85°	2010	3407	2702	3132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.5	3.7
10°-20°	970.5	10.7
20°-30°	1438.4	15.9
30°-40°	1598.0	17.7
40°-50°	1448.6	16.0
50°-60°	1122.5	12.4
60°-70°	762.2	8.4
70°-80°	484.9	5.4
80°-90°	310.0	3.4
90°-100°	209.0	2.3
100°-110°	143.2	1.6
110°-120°	95.5	1.1
120°-130°	59.4	0.7
130°-140°	32.9	0.4
140°-150°	15.4	0.2
150°-160°	5.7	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2747.4	30.4
0°-40°	4345.3	48.1
0°-60°	6916.4	76.6
0°-90°	8473.6	93.8
90°-120°	447.7	5.0
90°-150°	555.4	6.1
90°-180°	561.0	6.2
0°-180°	9035.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3570	3570	3570	3570	3570	
5°	3592	3556	3592	3541	3592	341
15°	3464	3470	3480	3380	3464	978
25°	3193	3134	3228	2950	3193	1471
35°	2749	2396	2802	2231	2749	1715
45°	2117	1712	2186	1614	2117	1626
55°	1351	1204	1449	1143	1351	1216
65°	701	809	772	750	701	703
75°	281	540	316	497	281	302
85°	51	389	69	357	51	61
90°	0	336	4	306	0	3
95°	2	287	0	267	2	2
105°	2	210	0	198	2	2
115°	2	159	0	147	2	2
125°	2	118	2	104	2	2
135°	2	82	2	67	2	2
145°	2	53	2	37	2	1
155°	2	30	2	14	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-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3599.6	3595.6	3591.7	3585.8	3591.7	3607.4	3597.6	3576.0	3572.1	3536.7	3552.4
5°	3591.7	3585.8	3581.9	3576.0	3583.9	3603.5	3593.7	3574.0	3568.1	3534.8	3552.4
7.5°	3572.1	3568.1	3562.3	3562.3	3570.1	3589.7	3581.9	3560.3	3556.4	3523.0	3542.6
10°	3544.6	3542.6	3538.7	3538.7	3546.5	3570.1	3560.3	3540.6	3536.7	3505.3	3526.9
12.5°	3509.2	3511.2	3505.3	3505.3	3517.1	3540.6	3532.8	3511.2	3507.3	3479.8	3501.4
15°	3464.1	3466.0	3462.1	3464.1	3475.8	3503.3	3493.5	3473.9	3470.0	3448.4	3466.0
17.5°	3413.0	3415.0	3415.0	3413.0	3426.8	3454.2	3446.4	3428.7	3422.8	3405.2	3426.8
20°	3354.1	3354.1	3354.1	3354.1	3369.8	3397.3	3387.5	3373.7	3361.9	3348.2	3365.9
22.5°	3281.4	3279.5	3281.4	3287.3	3303.0	3324.6	3318.7	3303.0	3285.4	3277.5	3291.3
25°	3193.1	3199.0	3200.9	3206.8	3226.4	3244.1	3238.2	3222.5	3195.0	3189.1	3193.1
27.5°	3100.8	3104.7	3110.6	3108.6	3136.1	3153.8	3142.0	3128.3	3089.0	3083.1	3079.2
30°	2996.7	3002.6	3006.5	3004.5	3026.1	3045.8	3034.0	3016.3	2963.3	2959.4	2928.0
32.5°	2878.9	2884.8	2888.7	2888.7	2920.1	2928.0	2906.4	2880.8	2823.9	2810.1	2782.6
35°	2749.3	2755.1	2757.1	2757.1	2788.5	2786.6	2759.1	2723.7	2660.9	2643.2	2596.1
37.5°	2609.8	2613.8	2615.7	2627.5	2641.3	2629.5	2594.1	2549.0	2501.8	2452.7	2401.7
40°	2452.7	2458.6	2462.5	2470.4	2484.1	2470.4	2419.3	2364.4	2313.3	2258.3	2207.3
42.5°	2291.7	2309.4	2305.4	2303.5	2311.3	2274.0	2234.8	2171.9	2120.9	2063.9	2012.8
45°	2116.9	2115.0	2124.8	2128.7	2126.7	2095.3	2040.3	1983.4	1932.3	1873.4	1830.2
47.5°	1932.3	1930.4	1938.2	1942.2	1930.4	1897.0	1853.8	1789.0	1745.8	1694.7	1661.3
50°	1737.9	1737.9	1749.7	1737.9	1732.0	1698.6	1663.3	1598.5	1565.1	1519.9	1500.3
52.5°	1543.5	1561.2	1549.4	1545.5	1539.6	1506.2	1478.7	1425.7	1398.2	1378.6	1355.0
55°	1351.1	1370.7	1362.8	1357.0	1355.0	1327.5	1302.0	1262.7	1245.0	1231.3	1217.5
57.5°	1188.1	1186.1	1182.2	1176.3	1178.3	1156.7	1131.1	1109.5	1101.7	1095.8	1099.7
60°	999.6	1015.3	1009.4	1011.3	1013.3	1009.4	987.8	974.0	976.0	977.9	983.8
62.5°	844.4	858.2	868.0	860.1	864.1	869.9	858.2	854.2	862.1	869.9	877.8
65°	701.1	714.8	724.6	722.7	734.4	746.2	744.3	748.2	765.9	775.7	785.5
67.5°	571.5	585.2	598.9	600.9	618.6	636.3	644.1	657.9	677.5	691.2	703.0
70°	459.5	471.3	487.0	496.8	520.4	544.0	557.7	585.2	597.0	616.6	624.5
72.5°	359.4	369.2	390.8	414.4	434.0	463.4	490.9	514.5	532.2	553.8	563.6
75°	280.8	284.7	308.3	335.8	363.3	396.7	426.1	451.7	475.2	496.8	512.5
77.5°	206.2	212.1	233.7	271.0	302.4	337.8	371.1	398.6	424.2	445.8	467.4
80°	143.4	155.1	178.7	216.0	251.4	290.6	322.1	353.5	381.0	402.6	424.2
82.5°	92.3	102.1	135.5	172.8	210.1	249.4	282.8	314.2	343.7	367.2	386.9
85°	51.1	64.8	98.2	137.5	174.8	214.0	249.4	280.8	310.3	331.9	351.5
87.5°	19.6	39.3	70.7	108.0	145.3	182.6	219.9	249.4	278.9	302.4	320.1
90°	0.0	23.6	53.0	90.3	127.6	165.0	200.3	231.7	259.2	280.8	300.5
92.5°	2.0	15.7	41.2	72.7	108.0	143.4	176.7	208.2	235.7	257.3	274.9
95°	2.0	11.8	33.4	62.8	94.3	127.6	159.1	188.5	214.0	235.7	253.3
97.5°	2.0	7.9	27.5	55.0	82.5	115.9	145.3	172.8	196.4	218.0	231.7
100°	2.0	7.9	23.6	47.1	74.6	104.1	131.6	159.1	180.7	198.3	214.0
102.5°	2.0	5.9	19.6	41.2	66.8	92.3	119.8	145.3	165.0	182.6	198.3
105°	2.0	5.9	17.7	35.3	58.9	84.4	108.0	131.6	153.2	168.9	182.6
107.5°	2.0	3.9	15.7	29.5	51.1	76.6	100.2	119.8	139.4	155.1	168.9
110°	2.0	3.9	13.7	27.5	45.2	68.7	90.3	110.0	127.6	143.4	155.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	3.9	11.8	25.5	41.2	60.9	82.5	100.2	117.8	131.6	143.4
115°	2.0	3.9	11.8	23.6	37.3	53.0	72.7	92.3	106.0	121.8	131.6
117.5°	2.0	3.9	9.8	19.6	35.3	49.1	66.8	82.5	98.2	111.9	121.8
120°	2.0	3.9	9.8	17.7	31.4	45.2	58.9	74.6	90.3	100.2	110.0
122.5°	2.0	3.9	7.9	17.7	27.5	41.2	53.0	66.8	80.5	92.3	102.1
125°	2.0	3.9	7.9	15.7	25.5	37.3	49.1	58.9	72.7	82.5	92.3
127.5°	2.0	3.9	7.9	13.7	23.6	33.4	45.2	55.0	64.8	74.6	82.5
130°	2.0	3.9	5.9	11.8	21.6	29.5	39.3	51.1	58.9	66.8	74.6
132.5°	2.0	3.9	5.9	11.8	17.7	25.5	35.3	45.2	53.0	60.9	66.8
135°	2.0	3.9	5.9	9.8	15.7	23.6	29.5	39.3	47.1	55.0	60.9
137.5°	2.0	3.9	5.9	9.8	13.7	19.6	25.5	33.4	41.2	47.1	55.0
140°	2.0	3.9	5.9	7.9	11.8	17.7	23.6	27.5	35.3	41.2	47.1
142.5°	2.0	3.9	5.9	7.9	11.8	15.7	19.6	23.6	29.5	35.3	41.2
145°	2.0	3.9	5.9	7.9	9.8	13.7	17.7	21.6	23.6	29.5	33.4
147.5°	2.0	3.9	5.9	7.9	7.9	11.8	15.7	17.7	21.6	23.6	27.5
150°	2.0	3.9	5.9	5.9	7.9	9.8	13.7	15.7	17.7	21.6	23.6
152.5°	2.0	3.9	5.9	5.9	7.9	9.8	11.8	13.7	15.7	17.7	19.6
155°	2.0	3.9	5.9	5.9	5.9	7.9	9.8	11.8	13.7	15.7	17.7
157.5°	3.9	3.9	3.9	5.9	5.9	7.9	7.9	9.8	11.8	11.8	13.7
160°	3.9	3.9	3.9	5.9	5.9	5.9	7.9	7.9	9.8	9.8	11.8
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-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3548.5	3554.4	3572.1	3572.1	3568.1	3564.2	3564.2	3558.3	3562.3	3570.1	3566.2
5°	3548.5	3554.4	3572.1	3572.1	3568.1	3564.2	3562.3	3556.4	3562.3	3570.1	3566.2
7.5°	3536.7	3544.6	3562.3	3562.3	3558.3	3556.4	3552.4	3548.5	3554.4	3562.3	3558.3
10°	3521.0	3528.9	3546.5	3546.5	3542.6	3542.6	3536.7	3532.8	3540.6	3546.5	3544.6
12.5°	3497.4	3507.3	3523.0	3521.0	3517.1	3519.0	3513.2	3505.3	3513.2	3519.0	3521.0
15°	3464.1	3475.8	3491.6	3487.6	3481.7	3485.7	3475.8	3470.0	3475.8	3487.6	3485.7
17.5°	3420.9	3428.7	3440.5	3440.5	3434.6	3430.7	3426.8	3420.9	3424.8	3432.6	3434.6
20°	3360.0	3369.8	3375.7	3369.8	3367.8	3361.9	3354.1	3348.2	3356.1	3367.8	3369.8
22.5°	3279.5	3281.4	3295.2	3281.4	3271.6	3269.7	3261.8	3250.0	3261.8	3271.6	3273.6
25°	3179.3	3189.1	3183.2	3159.7	3159.7	3144.0	3140.0	3134.2	3136.1	3153.8	3161.6
27.5°	3051.7	3055.6	3039.9	3020.3	3002.6	2992.8	2979.0	2981.0	2981.0	3004.5	3012.4
30°	2912.2	2890.6	2876.9	2845.5	2831.7	2808.2	2804.2	2804.2	2800.3	2812.1	2847.4
32.5°	2745.3	2715.9	2694.3	2664.8	2641.3	2617.7	2605.9	2611.8	2609.8	2639.3	2651.1
35°	2562.7	2545.0	2499.9	2462.5	2448.8	2413.5	2413.5	2395.8	2407.6	2440.9	2454.7
37.5°	2370.3	2342.8	2305.4	2264.2	2254.4	2226.9	2217.1	2207.3	2232.8	2238.7	2252.4
40°	2173.9	2148.3	2113.0	2073.7	2073.7	2040.3	2040.3	2040.3	2042.3	2054.1	2079.6
42.5°	1987.3	1959.8	1928.4	1900.9	1897.0	1871.5	1871.5	1869.5	1873.4	1883.2	1906.8
45°	1806.7	1785.1	1751.7	1737.9	1739.9	1712.4	1718.3	1712.4	1720.2	1730.1	1737.9
47.5°	1639.7	1626.0	1612.2	1592.6	1586.7	1584.8	1574.9	1567.1	1580.8	1580.8	1592.6
50°	1484.6	1476.7	1468.9	1457.1	1459.1	1451.2	1439.4	1439.4	1449.3	1451.2	1459.1
52.5°	1349.1	1339.3	1329.5	1331.4	1333.4	1329.5	1323.6	1317.7	1323.6	1327.5	1337.3
55°	1213.6	1205.7	1215.6	1211.6	1215.6	1211.6	1207.7	1203.8	1213.6	1207.7	1217.5
57.5°	1091.8	1099.7	1103.6	1095.8	1101.7	1097.7	1099.7	1093.8	1101.7	1105.6	1103.6
60°	979.9	991.7	985.8	987.8	995.6	991.7	983.8	989.7	997.6	999.6	997.6
62.5°	877.8	891.5	897.4	893.5	895.5	891.5	897.4	889.6	899.4	903.3	897.4
65°	785.5	801.2	805.1	805.1	805.1	801.2	807.1	809.1	813.0	813.0	809.1
67.5°	707.0	720.7	724.6	728.6	724.6	720.7	720.7	722.7	730.5	734.4	730.5
70°	636.3	650.0	652.0	652.0	653.9	657.9	650.0	653.9	659.8	661.8	659.8
72.5°	575.4	589.1	593.1	591.1	593.1	595.0	595.0	591.1	597.0	600.9	600.9
75°	526.3	534.1	538.1	538.1	540.0	542.0	542.0	540.0	544.0	545.9	547.9
77.5°	481.1	487.0	492.9	492.9	494.9	492.9	496.8	496.8	498.8	500.8	502.7
80°	436.0	443.8	447.7	449.7	453.6	455.6	455.6	455.6	457.6	459.5	459.5
82.5°	400.6	406.5	412.4	418.3	418.3	420.2	420.2	420.2	422.2	422.2	424.2
85°	365.3	373.1	379.0	382.9	384.9	386.9	386.9	388.8	388.8	388.8	390.8
87.5°	333.8	343.7	347.6	351.5	353.5	357.4	357.4	357.4	359.4	359.4	359.4
90°	312.2	322.1	326.0	329.9	331.9	333.8	333.8	335.8	335.8	337.8	337.8
92.5°	286.7	296.5	304.4	304.4	306.3	310.3	308.3	308.3	310.3	312.2	312.2
95°	267.1	274.9	280.8	282.8	284.7	284.7	284.7	286.7	284.7	286.7	286.7
97.5°	243.5	251.4	257.3	261.2	263.1	263.1	263.1	265.1	263.1	265.1	265.1
100°	223.9	231.7	237.6	239.6	243.5	243.5	243.5	243.5	243.5	243.5	245.5
102.5°	208.2	216.0	219.9	221.9	223.9	225.8	225.8	225.8	225.8	227.8	227.8
105°	192.4	200.3	204.2	206.2	208.2	210.1	210.1	210.1	212.1	212.1	210.1
107.5°	178.7	184.6	188.5	192.4	194.4	194.4	196.4	196.4	196.4	196.4	196.4
110°	165.0	170.8	176.7	180.7	180.7	182.6	182.6	184.6	184.6	182.6	184.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	151.2	159.1	163.0	166.9	168.9	170.8	170.8	170.8	170.8	170.8	170.8
115°	139.4	147.3	151.2	155.1	157.1	159.1	159.1	159.1	159.1	159.1	159.1
117.5°	129.6	137.5	141.4	143.4	145.3	147.3	149.2	149.2	149.2	149.2	147.3
120°	119.8	125.7	129.6	133.5	135.5	137.5	137.5	137.5	137.5	137.5	137.5
122.5°	110.0	115.9	119.8	123.7	125.7	127.6	127.6	127.6	127.6	127.6	127.6
125°	100.2	106.0	110.0	113.9	115.9	117.8	117.8	117.8	117.8	117.8	117.8
127.5°	90.3	96.2	102.1	104.1	106.0	108.0	108.0	108.0	110.0	108.0	108.0
130°	80.5	86.4	92.3	94.3	96.2	98.2	100.2	100.2	100.2	100.2	98.2
132.5°	72.7	78.6	82.5	84.4	88.4	88.4	90.3	90.3	90.3	90.3	88.4
135°	66.8	70.7	74.6	76.6	80.5	80.5	80.5	82.5	82.5	80.5	78.6
137.5°	58.9	62.8	66.8	68.7	70.7	72.7	72.7	74.6	72.7	72.7	72.7
140°	55.0	56.9	60.9	62.8	64.8	64.8	64.8	66.8	66.8	64.8	64.8
142.5°	47.1	51.1	55.0	56.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
145°	39.3	45.2	47.1	51.1	51.1	53.0	53.0	53.0	53.0	53.0	51.1
147.5°	33.4	37.3	43.2	45.2	45.2	47.1	47.1	47.1	47.1	47.1	45.2
150°	25.5	29.5	35.3	39.3	39.3	41.2	41.2	41.2	41.2	39.3	39.3
152.5°	21.6	25.5	27.5	31.4	33.4	33.4	33.4	35.3	33.4	33.4	33.4
155°	19.6	21.6	23.6	25.5	27.5	29.5	29.5	29.5	29.5	27.5	27.5
157.5°	15.7	17.7	19.6	21.6	23.6	25.5	25.5	25.5	25.5	25.5	23.6
160°	11.8	13.7	15.7	15.7	17.7	19.6	21.6	19.6	19.6	19.6	19.6
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-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3562.3	3560.3	3566.2	3556.4	3526.9	3534.8	3530.8	3548.5	3552.4	3556.4	3574.0
5°	3562.3	3560.3	3564.2	3556.4	3524.9	3530.8	3526.9	3544.6	3548.5	3550.5	3568.1
7.5°	3554.4	3552.4	3558.3	3548.5	3515.1	3523.0	3517.1	3534.8	3536.7	3538.7	3554.4
10°	3538.7	3536.7	3540.6	3532.8	3499.4	3507.3	3499.4	3517.1	3517.1	3521.0	3532.8
12.5°	3515.1	3511.2	3519.0	3509.2	3471.9	3481.7	3477.8	3489.6	3491.6	3493.5	3505.3
15°	3481.7	3477.8	3483.7	3477.8	3444.4	3446.4	3440.5	3458.2	3460.1	3456.2	3468.0
17.5°	3432.6	3428.7	3440.5	3436.6	3403.2	3411.0	3409.1	3413.0	3418.9	3409.1	3424.8
20°	3371.8	3375.7	3379.6	3381.6	3356.1	3356.1	3354.1	3361.9	3367.8	3360.0	3371.8
22.5°	3281.4	3291.3	3303.0	3307.0	3289.3	3287.3	3299.1	3295.2	3301.1	3297.1	3305.0
25°	3167.5	3187.2	3199.0	3210.7	3200.9	3204.8	3222.5	3226.4	3226.4	3224.5	3232.3
27.5°	3026.1	3051.7	3073.3	3098.8	3089.0	3096.8	3126.3	3130.2	3138.1	3130.2	3145.9
30°	2857.3	2880.8	2922.1	2959.4	2963.3	2975.1	3016.3	3020.3	3041.9	3034.0	3039.9
32.5°	2688.4	2700.2	2747.3	2784.6	2808.2	2837.6	2882.8	2890.6	2920.1	2926.0	2926.0
35°	2476.3	2509.7	2552.9	2605.9	2635.4	2666.8	2727.7	2739.4	2782.6	2796.4	2812.1
37.5°	2297.6	2329.0	2356.5	2411.5	2464.5	2499.9	2549.0	2578.4	2623.6	2649.1	2668.7
40°	2107.1	2132.6	2162.1	2217.1	2262.2	2315.3	2364.4	2399.7	2456.7	2486.1	2511.6
42.5°	1926.4	1946.1	1977.5	2016.8	2063.9	2122.8	2169.9	2211.2	2272.1	2313.3	2342.8
45°	1765.4	1777.2	1804.7	1834.1	1875.4	1936.3	1981.4	2034.5	2083.5	2126.7	2162.1
47.5°	1614.2	1629.9	1643.7	1663.3	1700.6	1737.9	1790.9	1842.0	1891.1	1938.2	1973.6
50°	1474.8	1474.8	1496.4	1510.1	1535.7	1569.0	1610.3	1645.6	1706.5	1739.9	1785.1
52.5°	1339.3	1347.1	1358.9	1366.8	1386.4	1408.0	1441.4	1470.9	1521.9	1553.3	1596.5
55°	1219.5	1227.3	1233.2	1237.2	1248.9	1274.5	1286.3	1309.8	1345.2	1370.7	1408.0
57.5°	1105.6	1109.5	1115.4	1117.4	1119.3	1135.1	1144.9	1150.8	1186.1	1211.6	1243.1
60°	1001.5	1001.5	1007.4	1005.4	1003.5	1011.3	1009.4	1015.3	1036.9	1052.6	1066.3
62.5°	903.3	903.3	905.3	901.4	899.4	899.4	891.5	897.4	903.3	905.3	915.1
65°	813.0	822.8	815.0	816.9	805.1	801.2	797.3	785.5	783.5	775.7	779.6
67.5°	732.5	740.3	732.5	732.5	722.7	714.8	705.0	685.4	679.5	663.7	659.8
70°	667.7	661.8	665.7	659.8	648.0	638.2	624.5	608.8	589.1	569.5	555.7
72.5°	604.8	604.8	600.9	595.0	589.1	569.5	553.8	536.1	512.5	487.0	467.4
75°	544.0	545.9	545.9	540.0	530.2	512.5	494.9	469.3	443.8	414.4	388.8
77.5°	500.8	500.8	500.8	490.9	481.1	465.4	443.8	416.3	388.8	353.5	324.0
80°	459.5	457.6	457.6	445.8	436.0	418.3	396.7	369.2	339.7	302.4	269.0
82.5°	426.1	424.2	420.2	410.4	396.7	379.0	357.4	327.9	296.5	263.1	221.9
85°	390.8	388.8	384.9	375.1	361.3	345.6	322.1	292.6	261.2	223.9	184.6
87.5°	359.4	357.4	351.5	345.6	329.9	312.2	288.7	261.2	227.8	192.4	153.2
90°	337.8	333.8	329.9	322.1	308.3	288.7	265.1	235.7	202.3	166.9	127.6
92.5°	312.2	310.3	304.4	296.5	284.7	265.1	241.5	214.0	180.7	147.3	110.0
95°	286.7	284.7	280.8	273.0	261.2	243.5	221.9	194.4	163.0	129.6	96.2
97.5°	263.1	263.1	257.3	251.4	237.6	223.9	202.3	176.7	147.3	117.8	86.4
100°	243.5	243.5	237.6	229.8	219.9	206.2	184.6	161.0	133.5	106.0	74.6
102.5°	225.8	223.9	219.9	212.1	202.3	188.5	168.9	147.3	121.8	94.3	66.8
105°	210.1	208.2	204.2	196.4	188.5	172.8	157.1	135.5	110.0	84.4	58.9
107.5°	194.4	192.4	190.5	182.6	172.8	159.1	143.4	121.8	100.2	76.6	53.0
110°	180.7	178.7	174.8	166.9	157.1	145.3	129.6	111.9	90.3	68.7	47.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.9	166.9	163.0	155.1	147.3	133.5	119.8	100.2	82.5	62.8	41.2
115°	157.1	155.1	151.2	143.4	133.5	121.8	108.0	92.3	72.7	55.0	37.3
117.5°	145.3	143.4	139.4	133.5	123.7	111.9	98.2	82.5	64.8	51.1	33.4
120°	135.5	131.6	127.6	121.8	111.9	102.1	88.4	74.6	58.9	45.2	29.5
122.5°	125.7	121.8	117.8	111.9	102.1	92.3	78.6	66.8	55.0	41.2	27.5
125°	113.9	111.9	108.0	102.1	92.3	82.5	72.7	60.9	49.1	37.3	23.6
127.5°	104.1	102.1	98.2	90.3	82.5	74.6	64.8	55.0	43.2	31.4	21.6
130°	96.2	92.3	88.4	82.5	76.6	68.7	58.9	49.1	39.3	27.5	19.6
132.5°	86.4	82.5	78.6	74.6	68.7	60.9	53.0	43.2	35.3	25.5	17.7
135°	78.6	74.6	70.7	66.8	60.9	55.0	47.1	39.3	31.4	23.6	15.7
137.5°	68.7	66.8	64.8	60.9	55.0	49.1	43.2	33.4	27.5	21.6	13.7
140°	62.8	60.9	58.9	53.0	49.1	43.2	37.3	29.5	23.6	17.7	11.8
142.5°	56.9	55.0	51.1	47.1	43.2	39.3	31.4	27.5	21.6	15.7	11.8
145°	49.1	47.1	45.2	41.2	37.3	31.4	27.5	23.6	19.6	13.7	9.8
147.5°	45.2	43.2	39.3	35.3	31.4	27.5	25.5	21.6	15.7	11.8	7.9
150°	37.3	35.3	33.4	29.5	27.5	25.5	21.6	17.7	13.7	9.8	7.9
152.5°	31.4	29.5	27.5	27.5	23.6	21.6	17.7	15.7	11.8	9.8	5.9
155°	27.5	27.5	25.5	23.6	19.6	17.7	15.7	11.8	9.8	7.9	5.9
157.5°	23.6	21.6	19.6	19.6	17.7	15.7	11.8	9.8	7.9	7.9	5.9
160°	19.6	17.7	17.7	15.7	13.7	11.8	9.8	9.8	7.9	5.9	5.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3576.0	3554.4	3574.0	3599.6	3599.6	3595.6	3591.7	3599.6	3619.2	3611.3	3587.8
5°	3570.1	3548.5	3566.2	3591.7	3591.7	3585.8	3581.9	3587.8	3609.4	3599.6	3578.0
7.5°	3558.3	3538.7	3550.5	3574.0	3574.0	3568.1	3564.2	3572.1	3589.7	3579.9	3556.4
10°	3536.7	3515.1	3528.9	3550.5	3548.5	3544.6	3538.7	3548.5	3564.2	3550.5	3523.0
12.5°	3509.2	3487.6	3499.4	3519.0	3517.1	3509.2	3505.3	3511.2	3524.9	3517.1	3487.6
15°	3471.9	3450.3	3460.1	3479.8	3473.9	3468.0	3460.1	3462.1	3479.8	3466.0	3434.6
17.5°	3426.8	3403.2	3411.0	3428.7	3422.8	3416.9	3407.1	3409.1	3428.7	3409.1	3375.7
20°	3371.8	3346.2	3352.1	3373.7	3363.9	3354.1	3344.3	3344.3	3363.9	3342.3	3305.0
22.5°	3312.9	3287.3	3291.3	3307.0	3299.1	3281.4	3271.6	3277.5	3287.3	3259.8	3220.6
25°	3240.2	3206.8	3212.7	3228.4	3222.5	3199.0	3189.1	3193.1	3189.1	3167.5	3126.3
27.5°	3155.8	3120.4	3124.3	3134.2	3126.3	3104.7	3092.9	3094.9	3087.0	3059.5	3012.4
30°	3049.7	3032.0	3030.1	3036.0	3024.2	3002.6	2988.8	2984.9	2982.9	2943.7	2886.7
32.5°	2941.7	2926.0	2916.2	2924.0	2910.3	2888.7	2865.1	2865.1	2845.5	2808.2	2759.1
35°	2831.7	2806.2	2796.4	2802.3	2786.6	2759.1	2739.4	2729.6	2700.2	2653.0	2600.0
37.5°	2690.3	2672.7	2660.9	2666.8	2649.1	2629.5	2592.2	2582.3	2550.9	2486.1	2419.3
40°	2537.2	2523.4	2511.6	2517.5	2497.9	2468.4	2435.1	2419.3	2384.0	2311.3	2258.3
42.5°	2372.2	2366.3	2352.6	2374.2	2334.9	2305.4	2272.1	2246.5	2211.2	2132.6	2071.8
45°	2197.4	2211.2	2179.8	2185.7	2160.1	2134.6	2099.3	2061.9	2026.6	1952.0	1883.2
47.5°	2012.8	2022.7	2001.1	2005.0	1977.5	1953.9	1922.5	1875.4	1836.1	1771.3	1710.4
50°	1822.4	1818.4	1818.4	1814.5	1792.9	1763.5	1732.0	1688.8	1649.6	1590.6	1539.6
52.5°	1620.1	1628.0	1631.9	1641.7	1614.2	1596.5	1547.4	1510.1	1480.7	1419.8	1376.6
55°	1425.7	1453.2	1445.3	1449.3	1417.8	1404.1	1364.8	1335.4	1292.2	1256.8	1229.3
57.5°	1248.9	1254.8	1258.8	1264.7	1250.9	1223.4	1192.0	1168.4	1135.1	1105.6	1086.0
60°	1078.1	1078.1	1080.1	1089.9	1076.1	1052.6	1029.0	1011.3	987.8	970.1	958.3
62.5°	917.1	930.8	932.8	924.9	907.3	895.5	879.8	869.9	854.2	848.3	844.4
65°	767.8	767.8	767.8	771.8	761.9	754.1	744.3	742.3	748.2	740.3	744.3
67.5°	642.1	636.3	632.3	634.3	630.4	626.4	624.5	630.4	642.1	642.1	652.0
70°	534.1	522.4	514.5	514.5	514.5	516.5	522.4	534.1	553.8	561.6	575.4
72.5°	445.8	420.2	408.5	408.5	410.4	418.3	436.0	457.6	475.2	490.9	508.6
75°	361.3	335.8	318.1	316.2	320.1	331.9	357.4	377.0	406.5	428.1	449.7
77.5°	292.6	261.2	239.6	237.6	243.5	261.2	292.6	318.1	351.5	375.1	398.6
80°	233.7	198.3	180.7	168.9	178.7	200.3	235.7	267.1	298.5	329.9	359.4
82.5°	186.6	153.2	125.7	113.9	125.7	155.1	188.5	225.8	257.3	290.6	320.1
85°	147.3	111.9	80.5	68.7	82.5	113.9	151.2	188.5	223.9	257.3	286.7
87.5°	115.9	80.5	49.1	33.4	51.1	84.4	119.8	157.1	194.4	227.8	257.3
90°	90.3	56.9	27.5	3.9	29.5	60.9	96.2	131.6	168.9	202.3	231.7
92.5°	76.6	43.2	15.7	0.0	17.7	45.2	78.6	113.9	147.3	180.7	210.1
95°	64.8	35.3	11.8	0.0	11.8	35.3	64.8	96.2	129.6	163.0	192.4
97.5°	55.0	27.5	7.9	0.0	7.9	27.5	53.0	84.4	113.9	145.3	172.8
100°	47.1	23.6	5.9	0.0	5.9	21.6	45.2	72.7	102.1	131.6	157.1
102.5°	41.2	19.6	3.9	0.0	3.9	17.7	37.3	62.8	88.4	115.9	141.4
105°	35.3	15.7	3.9	0.0	2.0	13.7	31.4	55.0	78.6	104.1	127.6
107.5°	31.4	13.7	3.9	0.0	2.0	11.8	27.5	47.1	70.7	92.3	113.9
110°	27.5	11.8	3.9	0.0	2.0	7.9	23.6	41.2	60.9	82.5	104.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.6	9.8	2.0	0.0	0.0	5.9	19.6	35.3	53.0	74.6	92.3
115°	21.6	9.8	2.0	0.0	0.0	3.9	15.7	31.4	47.1	66.8	82.5
117.5°	19.6	7.9	2.0	0.0	2.0	3.9	13.7	27.5	41.2	56.9	74.6
120°	17.7	7.9	2.0	0.0	2.0	2.0	9.8	23.6	35.3	51.1	64.8
122.5°	15.7	7.9	2.0	0.0	2.0	2.0	7.9	19.6	31.4	45.2	56.9
125°	13.7	5.9	3.9	2.0	2.0	2.0	5.9	15.7	27.5	37.3	51.1
127.5°	13.7	5.9	3.9	2.0	2.0	2.0	3.9	13.7	21.6	33.4	45.2
130°	11.8	5.9	3.9	2.0	2.0	2.0	2.0	9.8	19.6	27.5	37.3
132.5°	9.8	5.9	3.9	2.0	2.0	2.0	2.0	5.9	13.7	23.6	31.4
135°	9.8	5.9	3.9	2.0	2.0	2.0	2.0	3.9	9.8	17.7	25.5
137.5°	7.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	7.9	13.7	19.6
140°	7.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	5.9	9.8	15.7
142.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	3.9	7.9	11.8
145°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	7.9
147.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	5.9
150°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
152.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
155°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9
157.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
160°	5.9	3.9	3.9	2.0	3.9	2.0	3.9	3.9	3.9	3.9	3.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3579.9	3542.6	3562.3	3556.4	3564.2	3579.9	3578.0	3574.0	3574.0	3568.1	3560.3
5°	3568.1	3532.8	3550.5	3540.6	3550.5	3564.2	3562.3	3556.4	3560.3	3550.5	3540.6
7.5°	3544.6	3513.2	3528.9	3521.0	3528.9	3542.6	3536.7	3534.8	3538.7	3523.0	3517.1
10°	3517.1	3481.7	3499.4	3489.6	3499.4	3509.2	3505.3	3497.4	3505.3	3489.6	3483.7
12.5°	3473.9	3444.4	3456.2	3452.3	3458.2	3468.0	3460.1	3454.2	3458.2	3444.4	3432.6
15°	3426.8	3397.3	3407.1	3401.2	3405.2	3416.9	3403.2	3401.2	3397.3	3383.5	3379.6
17.5°	3365.9	3338.4	3348.2	3338.4	3344.3	3340.3	3338.4	3328.6	3328.6	3312.9	3301.1
20°	3291.3	3267.7	3261.8	3253.9	3261.8	3253.9	3242.2	3234.3	3232.3	3216.6	3206.8
22.5°	3204.8	3177.4	3181.3	3159.7	3161.6	3149.9	3130.2	3122.4	3114.5	3096.8	3083.1
25°	3100.8	3073.3	3053.6	3039.9	3022.2	3020.3	2994.7	2975.1	2973.1	2951.5	2949.6
27.5°	2982.9	2951.5	2935.8	2902.4	2880.8	2863.2	2841.6	2821.9	2812.1	2788.5	2772.8
30°	2847.4	2812.1	2772.8	2749.3	2715.9	2702.1	2664.8	2641.3	2633.4	2607.9	2596.1
32.5°	2694.3	2657.0	2625.5	2580.4	2543.1	2523.4	2486.1	2462.5	2452.7	2425.2	2409.5
35°	2527.4	2486.1	2448.8	2405.6	2376.1	2342.8	2297.6	2274.0	2252.4	2242.6	2230.8
37.5°	2352.6	2307.4	2264.2	2221.0	2195.5	2156.2	2116.9	2101.2	2075.7	2065.9	2054.1
40°	2171.9	2126.7	2085.5	2044.3	2014.8	1979.5	1944.1	1938.2	1910.7	1900.9	1893.1
42.5°	1993.2	1946.1	1899.0	1869.5	1847.9	1812.5	1789.0	1783.1	1759.5	1753.6	1753.6
45°	1832.2	1773.3	1734.0	1708.5	1690.8	1661.3	1641.7	1637.8	1618.1	1614.2	1614.2
47.5°	1659.4	1604.4	1574.9	1559.2	1543.5	1521.9	1510.1	1510.1	1490.5	1486.6	1484.6
50°	1498.3	1447.3	1425.7	1410.0	1408.0	1392.3	1382.5	1378.6	1378.6	1364.8	1366.8
52.5°	1345.2	1319.6	1302.0	1292.2	1280.4	1270.5	1262.7	1262.7	1256.8	1247.0	1250.9
55°	1203.8	1174.3	1176.3	1168.4	1162.5	1156.7	1158.6	1146.8	1144.9	1137.0	1142.9
57.5°	1062.4	1062.4	1058.5	1052.6	1042.8	1046.7	1046.7	1046.7	1036.9	1031.0	1036.9
60°	942.6	948.5	938.7	944.6	940.6	942.6	938.7	938.7	932.8	930.8	932.8
62.5°	836.6	846.4	842.5	850.3	846.4	848.3	852.3	844.4	840.5	836.6	840.5
65°	742.3	754.1	752.1	758.0	760.0	761.9	763.9	760.0	756.0	752.1	750.2
67.5°	659.8	671.6	679.5	681.4	683.4	689.3	687.3	683.4	679.5	673.6	671.6
70°	585.2	600.9	610.7	614.7	622.5	618.6	618.6	616.6	612.7	606.8	604.8
72.5°	522.4	540.0	549.9	553.8	561.6	561.6	559.7	557.7	553.8	547.9	545.9
75°	467.4	483.1	496.8	504.7	510.6	510.6	508.6	506.6	502.7	498.8	496.8
77.5°	424.2	437.9	449.7	459.5	463.4	465.4	463.4	459.5	459.5	457.6	455.6
80°	381.0	396.7	408.5	418.3	424.2	424.2	422.2	424.2	420.2	418.3	416.3
82.5°	343.7	361.3	375.1	384.9	388.8	390.8	388.8	390.8	386.9	386.9	386.9
85°	310.3	327.9	343.7	351.5	357.4	359.4	359.4	359.4	357.4	357.4	357.4
87.5°	282.8	300.5	316.2	324.0	329.9	331.9	331.9	333.8	329.9	329.9	329.9
90°	257.3	274.9	290.6	298.5	304.4	308.3	308.3	310.3	308.3	306.3	306.3
92.5°	233.7	253.3	269.0	276.9	282.8	288.7	288.7	290.6	286.7	286.7	286.7
95°	214.0	233.7	247.4	257.3	263.1	267.1	269.0	269.0	267.1	267.1	267.1
97.5°	196.4	214.0	227.8	237.6	243.5	245.5	247.4	249.4	247.4	247.4	247.4
100°	178.7	196.4	210.1	218.0	225.8	227.8	229.8	231.7	231.7	229.8	229.8
102.5°	163.0	180.7	192.4	202.3	208.2	212.1	214.0	214.0	214.0	214.0	214.0
105°	147.3	165.0	176.7	186.6	192.4	196.4	198.3	200.3	200.3	198.3	198.3
107.5°	133.5	149.2	163.0	170.8	178.7	182.6	184.6	184.6	186.6	184.6	184.6
110°	119.8	137.5	149.2	157.1	165.0	168.9	170.8	172.8	172.8	172.8	172.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	110.0	123.7	135.5	143.4	151.2	155.1	157.1	159.1	161.0	159.1	159.1
115°	98.2	111.9	123.7	131.6	137.5	141.4	145.3	147.3	147.3	149.2	147.3
117.5°	88.4	100.2	111.9	119.8	125.7	131.6	133.5	135.5	137.5	135.5	135.5
120°	78.6	90.3	100.2	108.0	113.9	119.8	121.8	123.7	125.7	123.7	123.7
122.5°	70.7	80.5	90.3	98.2	104.1	108.0	111.9	111.9	113.9	113.9	113.9
125°	62.8	72.7	80.5	88.4	94.3	98.2	100.2	102.1	102.1	104.1	104.1
127.5°	55.0	62.8	72.7	78.6	84.4	88.4	90.3	92.3	92.3	94.3	94.3
130°	47.1	55.0	62.8	68.7	74.6	78.6	80.5	82.5	84.4	84.4	84.4
132.5°	41.2	49.1	55.0	60.9	64.8	68.7	72.7	74.6	74.6	74.6	74.6
135°	33.4	41.2	47.1	53.0	56.9	60.9	62.8	66.8	66.8	66.8	66.8
137.5°	27.5	35.3	41.2	45.2	49.1	53.0	55.0	56.9	58.9	58.9	58.9
140°	21.6	27.5	33.4	39.3	43.2	45.2	49.1	49.1	51.1	51.1	51.1
142.5°	15.7	21.6	25.5	31.4	35.3	39.3	41.2	43.2	43.2	43.2	43.2
145°	11.8	15.7	19.6	23.6	29.5	31.4	33.4	35.3	37.3	37.3	37.3
147.5°	7.9	11.8	13.7	17.7	21.6	25.5	27.5	29.5	31.4	31.4	31.4
150°	5.9	7.9	11.8	13.7	15.7	19.6	23.6	23.6	25.5	25.5	23.6
152.5°	3.9	5.9	7.9	9.8	11.8	13.7	17.7	17.7	19.6	19.6	19.6
155°	3.9	3.9	3.9	5.9	7.9	9.8	11.8	13.7	13.7	13.7	13.7
157.5°	3.9	3.9	3.9	3.9	3.9	5.9	7.9	9.8	9.8	9.8	9.8
160°	3.9	3.9	2.0	2.0	3.9	3.9	3.9	3.9	5.9	5.9	5.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3566.2	3570.1	3570.1	3566.2	3564.2	3572.1	3562.3	3524.9	3536.7	3540.6	3552.4
5°	3548.5	3552.4	3552.4	3552.4	3548.5	3556.4	3546.5	3509.2	3523.0	3528.9	3536.7
7.5°	3523.0	3524.9	3528.9	3526.9	3523.0	3534.8	3524.9	3487.6	3497.4	3507.3	3517.1
10°	3489.6	3489.6	3491.6	3495.5	3491.6	3501.4	3491.6	3458.2	3468.0	3473.9	3485.7
12.5°	3444.4	3448.4	3450.3	3448.4	3446.4	3454.2	3450.3	3418.9	3422.8	3434.6	3446.4
15°	3383.5	3383.5	3393.4	3389.4	3389.4	3397.3	3401.2	3365.9	3371.8	3389.4	3401.2
17.5°	3308.9	3310.9	3318.7	3322.7	3320.7	3334.5	3336.4	3308.9	3307.0	3328.6	3340.3
20°	3212.7	3216.6	3226.4	3234.3	3234.3	3250.0	3255.9	3238.2	3240.2	3263.8	3267.7
22.5°	3094.9	3094.9	3112.6	3124.3	3134.2	3144.0	3161.6	3145.9	3145.9	3177.4	3195.0
25°	2949.6	2963.3	2969.2	2992.8	3006.5	3034.0	3049.7	3051.7	3053.6	3083.1	3094.9
27.5°	2788.5	2792.5	2810.1	2837.6	2853.3	2878.9	2908.3	2914.2	2924.0	2963.3	2981.0
30°	2605.9	2617.7	2625.5	2664.8	2686.4	2719.8	2757.1	2770.9	2778.7	2831.7	2853.3
32.5°	2419.3	2423.3	2456.7	2478.3	2503.8	2539.1	2582.3	2607.9	2623.6	2678.6	2710.0
35°	2232.8	2240.6	2268.1	2295.6	2321.2	2356.5	2401.7	2437.0	2464.5	2513.6	2554.8
37.5°	2061.9	2081.6	2087.5	2115.0	2134.6	2169.9	2201.4	2252.4	2279.9	2331.0	2384.0
40°	1908.8	1914.7	1918.6	1946.1	1959.8	1993.2	2038.4	2071.8	2109.1	2146.4	2209.2
42.5°	1757.6	1761.5	1767.4	1783.1	1798.8	1822.4	1855.7	1889.1	1928.4	1983.4	2024.6
45°	1618.1	1622.1	1626.0	1635.8	1649.6	1671.2	1692.8	1716.3	1755.6	1802.7	1845.9
47.5°	1488.5	1496.4	1496.4	1498.3	1508.2	1525.8	1541.5	1571.0	1592.6	1618.1	1667.2
50°	1364.8	1370.7	1372.7	1372.7	1378.6	1390.3	1394.3	1413.9	1433.5	1457.1	1492.5
52.5°	1248.9	1248.9	1247.0	1254.8	1254.8	1262.7	1264.7	1276.4	1290.2	1315.7	1331.4
55°	1139.0	1139.0	1144.9	1140.9	1140.9	1144.9	1142.9	1144.9	1156.7	1172.4	1186.1
57.5°	1032.9	1031.0	1036.9	1032.9	1031.0	1034.9	1038.8	1031.0	1032.9	1048.6	1048.6
60°	926.9	928.9	934.7	930.8	930.8	930.8	926.9	923.0	919.0	928.9	932.8
62.5°	842.5	836.6	842.5	836.6	840.5	838.5	834.6	826.7	828.7	824.8	820.8
65°	754.1	754.1	756.0	750.2	754.1	754.1	748.2	746.2	734.4	730.5	720.7
67.5°	677.5	677.5	679.5	675.5	675.5	677.5	671.6	665.7	653.9	648.0	634.3
70°	610.7	610.7	610.7	608.8	608.8	608.8	604.8	597.0	585.2	575.4	557.7
72.5°	549.9	551.8	549.9	549.9	555.7	549.9	544.0	536.1	526.3	506.6	490.9
75°	500.8	502.7	500.8	500.8	500.8	498.8	496.8	485.0	473.3	457.6	434.0
77.5°	457.6	457.6	459.5	457.6	457.6	455.6	449.7	439.9	426.1	412.4	384.9
80°	416.3	418.3	420.2	422.2	418.3	416.3	410.4	402.6	384.9	369.2	341.7
82.5°	386.9	384.9	386.9	388.8	384.9	382.9	377.0	367.2	353.5	331.9	304.4
85°	357.4	355.4	355.4	357.4	355.4	351.5	345.6	335.8	322.1	300.5	273.0
87.5°	327.9	329.9	331.9	329.9	327.9	324.0	318.1	308.3	292.6	274.9	245.5
90°	306.3	306.3	306.3	306.3	304.4	300.5	294.6	282.8	269.0	247.4	221.9
92.5°	286.7	286.7	286.7	286.7	284.7	278.9	273.0	263.1	247.4	225.8	202.3
95°	267.1	269.0	267.1	267.1	263.1	261.2	251.4	241.5	227.8	206.2	180.7
97.5°	245.5	247.4	245.5	245.5	243.5	239.6	233.7	221.9	208.2	188.5	165.0
100°	229.8	229.8	227.8	227.8	225.8	221.9	214.0	204.2	190.5	170.8	147.3
102.5°	212.1	214.0	212.1	212.1	208.2	204.2	198.3	188.5	174.8	155.1	133.5
105°	198.3	198.3	196.4	196.4	192.4	188.5	182.6	170.8	159.1	141.4	119.8
107.5°	184.6	184.6	182.6	182.6	178.7	174.8	166.9	157.1	145.3	127.6	108.0
110°	170.8	170.8	170.8	168.9	165.0	159.1	153.2	143.4	131.6	115.9	96.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.0	159.1	157.1	155.1	151.2	147.3	139.4	129.6	117.8	104.1	86.4
115°	147.3	147.3	145.3	143.4	139.4	133.5	127.6	119.8	108.0	92.3	76.6
117.5°	135.5	135.5	133.5	131.6	127.6	121.8	115.9	108.0	96.2	82.5	68.7
120°	123.7	123.7	121.8	119.8	115.9	110.0	106.0	96.2	86.4	72.7	60.9
122.5°	113.9	111.9	111.9	108.0	106.0	100.2	94.3	86.4	76.6	64.8	53.0
125°	102.1	102.1	100.2	98.2	96.2	90.3	84.4	76.6	66.8	56.9	47.1
127.5°	92.3	92.3	90.3	88.4	86.4	80.5	74.6	68.7	58.9	49.1	39.3
130°	82.5	82.5	80.5	78.6	76.6	70.7	66.8	58.9	51.1	43.2	33.4
132.5°	74.6	74.6	72.7	70.7	66.8	62.8	58.9	51.1	45.2	37.3	29.5
135°	66.8	64.8	64.8	62.8	58.9	55.0	51.1	45.2	37.3	31.4	23.6
137.5°	58.9	56.9	55.0	53.0	51.1	47.1	43.2	39.3	33.4	25.5	19.6
140°	51.1	49.1	49.1	47.1	43.2	41.2	37.3	31.4	27.5	21.6	15.7
142.5°	43.2	43.2	41.2	39.3	37.3	35.3	31.4	27.5	21.6	17.7	11.8
145°	37.3	35.3	35.3	33.4	31.4	27.5	25.5	21.6	17.7	13.7	9.8
147.5°	29.5	29.5	29.5	27.5	25.5	23.6	21.6	17.7	13.7	9.8	5.9
150°	23.6	23.6	23.6	21.6	19.6	17.7	15.7	13.7	9.8	5.9	3.9
152.5°	19.6	19.6	17.7	17.7	15.7	13.7	11.8	9.8	5.9	3.9	3.9
155°	13.7	13.7	13.7	11.8	11.8	9.8	7.9	5.9	3.9	3.9	3.9
157.5°	9.8	9.8	9.8	7.9	7.9	5.9	5.9	3.9	3.9	3.9	3.9
160°	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1	3570.1
2.5°	3546.5	3544.6	3560.3	3560.3	3542.6	3570.1	3599.6
5°	3534.8	3532.8	3548.5	3548.5	3532.8	3560.3	3591.7
7.5°	3511.2	3513.2	3528.9	3532.8	3513.2	3538.7	3572.1
10°	3485.7	3483.7	3501.4	3505.3	3489.6	3513.2	3544.6
12.5°	3444.4	3444.4	3462.1	3468.0	3452.3	3479.8	3509.2
15°	3401.2	3401.2	3413.0	3422.8	3409.1	3434.6	3464.1
17.5°	3346.2	3344.3	3356.1	3367.8	3354.1	3381.6	3413.0
20°	3275.5	3275.5	3289.3	3303.0	3293.2	3318.7	3354.1
22.5°	3200.9	3193.1	3216.6	3226.4	3220.6	3246.1	3281.4
25°	3106.7	3104.7	3128.3	3142.0	3134.2	3161.6	3193.1
27.5°	3004.5	3002.6	3026.1	3043.8	3039.9	3065.4	3100.8
30°	2880.8	2890.6	2912.2	2941.7	2931.9	2959.4	2996.7
32.5°	2751.2	2761.0	2786.6	2818.0	2820.0	2841.6	2878.9
35°	2596.1	2621.6	2639.3	2680.5	2688.4	2710.0	2749.3
37.5°	2433.1	2462.5	2499.9	2531.3	2547.0	2564.7	2609.8
40°	2250.5	2293.7	2334.9	2372.2	2391.9	2409.5	2452.7
42.5°	2085.5	2118.9	2158.2	2195.5	2230.8	2246.5	2291.7
45°	1899.0	1938.2	1973.6	2018.7	2054.1	2071.8	2116.9
47.5°	1716.3	1755.6	1802.7	1834.1	1871.5	1889.1	1932.3
50°	1541.5	1576.9	1616.2	1653.5	1684.9	1700.6	1737.9
52.5°	1368.7	1406.0	1443.4	1466.9	1500.3	1512.1	1543.5
55°	1215.6	1241.1	1274.5	1288.2	1321.6	1329.5	1351.1
57.5°	1068.3	1086.0	1097.7	1121.3	1144.9	1162.5	1188.1
60°	934.7	942.6	950.5	964.2	983.8	989.7	999.6
62.5°	815.0	813.0	828.7	832.6	834.6	854.2	844.4
65°	708.9	710.9	697.1	691.2	699.1	705.0	701.1
67.5°	620.5	608.8	597.0	583.2	571.5	577.3	571.5
70°	534.1	524.3	504.7	485.0	477.2	465.4	459.5
72.5°	465.4	441.8	422.2	396.7	382.9	369.2	359.4
75°	412.4	379.0	351.5	324.0	304.4	284.7	280.8
77.5°	357.4	326.0	294.6	265.1	235.7	214.0	206.2
80°	314.2	284.7	247.4	212.1	180.7	153.2	143.4
82.5°	274.9	243.5	206.2	168.9	133.5	104.1	92.3
85°	241.5	208.2	170.8	133.5	98.2	66.8	51.1
87.5°	216.0	178.7	141.4	106.0	68.7	37.3	19.6
90°	192.4	157.1	121.8	84.4	49.1	19.6	0.0
92.5°	170.8	137.5	102.1	68.7	37.3	11.8	2.0
95°	151.2	121.8	86.4	55.0	27.5	7.9	2.0
97.5°	135.5	106.0	74.6	45.2	21.6	5.9	2.0
100°	121.8	92.3	64.8	37.3	17.7	3.9	2.0
102.5°	108.0	82.5	55.0	31.4	13.7	2.0	2.0
105°	96.2	72.7	47.1	27.5	11.8	2.0	2.0
107.5°	86.4	64.8	41.2	23.6	7.9	2.0	2.0
110°	76.6	55.0	35.3	19.6	5.9	2.0	2.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	68.7	49.1	31.4	15.7	3.9	2.0	2.0
115°	60.9	43.2	27.5	13.7	3.9	2.0	2.0
117.5°	53.0	37.3	23.6	9.8	2.0	2.0	2.0
120°	47.1	33.4	19.6	7.9	2.0	2.0	2.0
122.5°	41.2	27.5	15.7	5.9	2.0	2.0	2.0
125°	35.3	23.6	13.7	3.9	2.0	2.0	2.0
127.5°	29.5	19.6	9.8	3.9	2.0	2.0	2.0
130°	25.5	15.7	7.9	2.0	2.0	2.0	2.0
132.5°	21.6	11.8	5.9	2.0	2.0	2.0	2.0
135°	17.7	9.8	3.9	2.0	2.0	2.0	2.0
137.5°	13.7	7.9	3.9	2.0	2.0	2.0	2.0
140°	9.8	5.9	2.0	2.0	2.0	2.0	2.0
142.5°	7.9	3.9	2.0	2.0	2.0	2.0	2.0
145°	5.9	3.9	2.0	2.0	2.0	2.0	2.0
147.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0
150°	3.9	3.9	2.0	2.0	3.9	2.0	2.0
152.5°	3.9	2.0	2.0	2.0	3.9	2.0	2.0
155°	3.9	3.9	3.9	3.9	3.9	3.9	2.0
157.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
160°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)