

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-LD5-105SL-LC-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

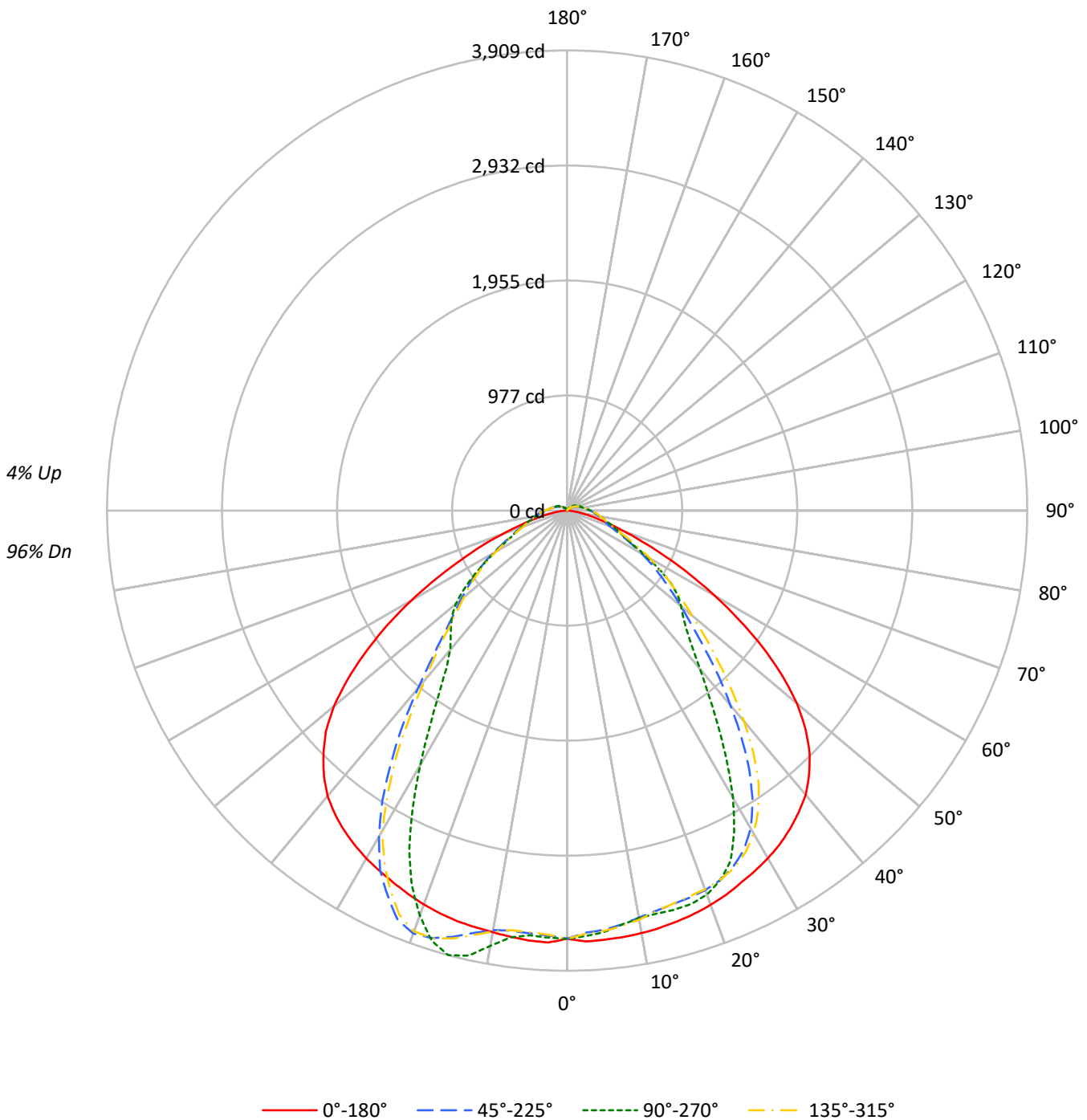
Lumens per Lamp: N/A  
Luminaire Lumens: 8670.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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-LD5-105SL-LC-UNV-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14695	14695	14695	14695
5°	14822	14112	14852	14223
10°	14911	13525	14880	14443
15°	15048	13344	15040	14858
20°	15236	13133	15220	13843
25°	15448	12459	15440	12038
30°	15765	10798	15774	9566
35°	16104	8732	16150	7389
40°	16411	7030	16479	6194
45°	16393	5955	16477	5799
50°	15731	5483	15951	5360
55°	14006	4928	14355	4480
60°	11410	3772	12016	3459
65°	8533	2886	9192	2736
70°	5852	2491	6596	2382
75°	3880	2248	4517	2126
80°	2569	2096	3012	1928
85°	1404	2091	1849	1909



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.5	4.0
10°-20°	1027.9	11.9
20°-30°	1562.6	18.0
30°-40°	1676.3	19.3
40°-50°	1454.9	16.8
50°-60°	1078.2	12.4
60°-70°	617.8	7.1
70°-80°	342.1	3.9
80°-90°	208.3	2.4
90°-100°	135.5	1.6
100°-110°	90.7	1.0
110°-120°	61.3	0.7
120°-130°	37.6	0.4
130°-140°	19.8	0.2
140°-150°	9.0	0.1
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2935.9	33.9
0°-40°	4612.3	53.2
0°-60°	7145.3	82.4
0°-90°	8313.5	95.9
90°-120°	287.5	3.3
90°-150°	353.8	4.1
90°-180°	356.0	4.1
0°-180°	8670.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3637	3637	3637	3637	3637	
5°	3659	3594	3667	3622	3659	349
15°	3612	3511	3610	3909	3612	1022
25°	3490	3284	3488	3173	3490	1613
35°	3301	2236	3310	1892	3301	2066
45°	2914	1433	2929	1396	2914	2231
55°	2033	1074	2083	977	2033	1802
65°	922	545	994	517	922	930
75°	263	346	306	327	263	300
85°	36	239	47	218	36	47
90°	0	199	4	184	0	2
95°	2	163	0	156	2	1
105°	2	122	2	116	2	2
115°	2	100	2	90	2	2
125°	2	75	2	62	2	2
135°	2	47	2	39	2	1
145°	2	28	4	22	2	1
155°	4	13	4	11	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3663.1	3653.8	3650.0	3642.5	3648.1	3670.7	3655.6	3631.2	3633.1	3589.9	3612.4
5°	3659.4	3648.1	3642.5	3635.0	3638.7	3659.4	3644.4	3619.9	3618.1	3574.9	3595.5
7.5°	3653.8	3642.5	3633.1	3627.5	3629.3	3646.2	3627.5	3599.3	3593.6	3546.7	3565.5
10°	3644.4	3636.8	3623.7	3614.3	3612.4	3631.2	3601.2	3573.0	3559.8	3511.0	3529.8
12.5°	3631.2	3619.9	3606.8	3589.9	3588.0	3599.3	3574.9	3535.4	3522.3	3482.8	3503.5
15°	3612.4	3599.3	3584.2	3565.5	3556.1	3563.6	3533.5	3497.8	3496.0	3462.1	3490.3
17.5°	3591.8	3573.0	3556.1	3529.8	3516.6	3522.3	3497.8	3465.9	3469.7	3449.0	3480.9
20°	3563.6	3542.9	3516.6	3490.3	3471.5	3480.9	3464.0	3439.6	3445.2	3430.2	3458.4
22.5°	3531.6	3503.5	3471.5	3441.5	3426.4	3439.6	3426.4	3405.8	3407.7	3398.3	3415.2
25°	3490.3	3458.4	3420.8	3383.2	3375.7	3385.1	3377.6	3360.7	3353.2	3338.2	3345.7
27.5°	3452.7	3417.1	3370.1	3330.6	3317.5	3336.3	3319.4	3291.2	3270.5	3249.9	3234.8
30°	3409.5	3366.3	3313.7	3268.7	3257.4	3264.9	3240.5	3197.3	3142.8	3116.5	3075.2
32.5°	3362.6	3306.2	3240.5	3189.8	3182.2	3176.6	3131.5	3069.5	2985.0	2932.4	2868.5
35°	3300.6	3238.6	3159.7	3097.7	3086.4	3054.5	2981.2	2898.6	2789.6	2699.5	2590.5
37.5°	3231.1	3157.8	3075.2	2992.5	2960.6	2896.7	2793.4	2707.0	2541.7	2432.7	2301.2
40°	3152.2	3063.9	2962.5	2862.9	2810.3	2707.0	2588.6	2460.9	2301.2	2154.7	2043.8
42.5°	3043.2	2949.3	2829.1	2718.2	2628.1	2490.9	2351.9	2171.6	2025.1	1901.1	1788.4
45°	2913.6	2800.9	2661.9	2528.5	2413.9	2250.5	2087.1	1906.7	1784.6	1640.0	1562.9
47.5°	2746.4	2624.3	2475.9	2327.5	2177.2	1996.9	1825.9	1653.1	1531.0	1427.7	1371.3
50°	2549.2	2436.5	2273.0	2096.4	1931.1	1743.3	1572.3	1442.7	1324.4	1260.5	1217.3
52.5°	2305.0	2199.8	2032.6	1841.0	1681.3	1497.2	1341.3	1236.1	1151.5	1104.6	1089.6
55°	2032.6	1940.5	1775.2	1596.8	1433.3	1264.3	1145.9	1053.9	999.4	971.2	973.1
57.5°	1741.4	1670.0	1514.1	1354.4	1200.4	1072.6	965.6	892.3	851.0	849.1	854.7
60°	1450.2	1397.6	1262.4	1125.2	990.0	886.7	807.8	757.0	730.8	732.6	730.8
62.5°	1172.2	1123.4	1025.7	913.0	805.9	736.4	665.0	644.3	621.8	619.9	619.9
65°	922.4	884.8	805.9	725.1	644.3	599.3	563.6	539.1	522.2	518.5	520.4
67.5°	693.2	678.2	623.7	569.2	518.5	490.3	460.2	454.6	441.5	441.5	445.2
70°	516.6	505.3	475.3	443.3	422.7	403.9	388.9	388.9	387.0	385.1	394.5
72.5°	373.8	375.7	366.3	341.9	340.0	336.3	332.5	338.1	340.0	345.7	356.9
75°	263.0	268.6	268.6	264.9	272.4	281.8	287.4	296.8	308.1	315.6	328.7
77.5°	186.0	186.0	195.4	206.6	221.7	238.6	253.6	266.8	281.8	291.2	302.4
80°	120.2	125.9	140.9	161.6	182.2	204.8	225.4	242.3	257.4	272.4	279.9
82.5°	71.4	80.8	99.6	125.9	152.2	180.3	201.0	221.7	238.6	253.6	259.2
85°	35.7	48.8	71.4	99.6	127.7	157.8	184.1	202.9	221.7	234.8	242.3
87.5°	11.3	26.3	50.7	77.0	107.1	137.1	165.3	186.0	202.9	214.2	221.7
90°	0.0	13.1	35.7	63.9	92.0	122.1	148.4	170.9	187.9	197.2	202.9
92.5°	0.0	7.5	28.2	52.6	78.9	109.0	135.3	155.9	170.9	180.3	184.1
95°	1.9	5.6	20.7	43.2	69.5	97.7	122.1	140.9	155.9	165.3	167.2
97.5°	1.9	3.8	16.9	35.7	60.1	86.4	110.8	129.6	140.9	150.3	152.2
100°	1.9	3.8	13.1	31.9	52.6	77.0	99.6	116.5	129.6	137.1	139.0
102.5°	1.9	1.9	11.3	26.3	47.0	67.6	88.3	105.2	116.5	124.0	127.7
105°	1.9	1.9	9.4	22.5	41.3	60.1	78.9	95.8	105.2	112.7	116.5
107.5°	1.9	1.9	7.5	18.8	35.7	52.6	71.4	84.5	95.8	103.3	107.1
110°	1.9	1.9	5.6	16.9	30.1	47.0	62.0	75.1	86.4	93.9	97.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.9	1.9	5.6	15.0	26.3	41.3	54.5	67.6	77.0	84.5	90.2
115°	1.9	1.9	5.6	13.1	24.4	35.7	48.8	60.1	69.5	77.0	82.7
117.5°	1.9	1.9	5.6	11.3	20.7	31.9	43.2	54.5	62.0	69.5	75.1
120°	1.9	1.9	3.8	9.4	18.8	28.2	37.6	47.0	56.4	63.9	69.5
122.5°	1.9	1.9	3.8	9.4	15.0	24.4	33.8	41.3	50.7	56.4	62.0
125°	1.9	1.9	3.8	7.5	13.1	22.5	30.1	37.6	43.2	50.7	56.4
127.5°	1.9	1.9	3.8	7.5	11.3	18.8	26.3	33.8	39.4	45.1	48.8
130°	1.9	1.9	3.8	5.6	9.4	15.0	22.5	28.2	35.7	39.4	43.2
132.5°	1.9	1.9	1.9	5.6	7.5	11.3	16.9	24.4	30.1	35.7	37.6
135°	1.9	1.9	1.9	3.8	7.5	9.4	13.1	18.8	24.4	30.1	33.8
137.5°	1.9	1.9	1.9	3.8	5.6	9.4	11.3	15.0	20.7	24.4	30.1
140°	1.9	1.9	1.9	3.8	5.6	7.5	9.4	13.1	16.9	20.7	24.4
142.5°	1.9	1.9	1.9	3.8	3.8	5.6	7.5	11.3	13.1	16.9	20.7
145°	1.9	1.9	1.9	3.8	3.8	5.6	7.5	9.4	11.3	13.1	16.9
147.5°	1.9	1.9	1.9	3.8	3.8	3.8	5.6	7.5	9.4	11.3	13.1
150°	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	7.5	9.4	11.3
152.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	5.6	7.5	9.4
155°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	7.5	7.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3604.9	3608.7	3631.2	3629.3	3625.6	3621.8	3621.8	3618.1	3621.8	3631.2	3627.5
5°	3586.1	3591.8	3608.7	3606.8	3603.0	3601.2	3599.3	3593.6	3597.4	3610.5	3606.8
7.5°	3552.3	3557.9	3573.0	3565.5	3559.8	3563.6	3554.2	3548.6	3556.1	3569.2	3567.3
10°	3516.6	3520.4	3539.2	3535.4	3526.0	3527.9	3518.5	3514.7	3524.1	3531.6	3533.5
12.5°	3492.2	3505.3	3522.3	3520.4	3518.5	3520.4	3511.0	3507.2	3512.9	3520.4	3518.5
15°	3486.6	3503.5	3522.3	3522.3	3524.1	3526.0	3516.6	3511.0	3516.6	3522.3	3520.4
17.5°	3480.9	3501.6	3518.5	3516.6	3518.5	3522.3	3507.2	3503.5	3511.0	3518.5	3514.7
20°	3462.1	3480.9	3492.2	3488.4	3488.4	3490.3	3471.5	3471.5	3482.8	3488.4	3490.3
22.5°	3409.5	3432.1	3432.1	3422.7	3422.7	3415.2	3409.5	3398.3	3411.4	3420.8	3428.3
25°	3330.6	3340.0	3328.8	3308.1	3296.8	3287.4	3261.1	3283.7	3283.7	3311.9	3321.3
27.5°	3219.8	3199.1	3167.2	3124.0	3114.6	3084.6	3067.6	3073.3	3082.7	3122.1	3152.2
30°	3037.6	2975.6	2921.1	2902.3	2861.0	2831.0	2800.9	2815.9	2832.8	2855.4	2917.4
32.5°	2797.1	2737.0	2648.7	2616.8	2573.6	2536.0	2500.3	2522.9	2552.9	2568.0	2635.6
35°	2521.0	2449.6	2368.8	2314.4	2269.3	2248.6	2203.5	2235.5	2267.4	2278.7	2336.9
37.5°	2227.9	2154.7	2083.3	2036.3	1993.1	1980.0	1949.9	1972.5	1996.9	2013.8	2062.6
40°	1949.9	1882.3	1827.8	1795.9	1765.8	1754.6	1743.3	1752.7	1771.5	1784.6	1822.2
42.5°	1711.3	1656.9	1619.3	1600.5	1579.8	1564.8	1566.7	1570.5	1579.8	1608.0	1624.9
45°	1502.8	1470.9	1446.5	1442.7	1429.6	1427.7	1425.8	1433.3	1439.0	1455.9	1469.0
47.5°	1335.6	1322.5	1316.9	1324.4	1330.0	1322.5	1326.2	1335.6	1346.9	1346.9	1345.0
50°	1204.1	1207.9	1215.4	1232.3	1243.6	1247.3	1251.1	1262.4	1264.3	1268.0	1262.4
52.5°	1097.1	1100.8	1121.5	1147.8	1160.9	1166.6	1174.1	1185.4	1185.4	1189.1	1181.6
55°	988.1	993.7	1014.4	1040.7	1052.0	1059.5	1067.0	1074.5	1080.2	1087.7	1082.0
57.5°	867.9	884.8	897.9	905.5	913.0	918.6	924.2	926.1	937.4	939.3	948.7
60°	740.1	743.9	757.0	755.2	749.5	764.6	757.0	770.2	783.3	800.3	802.1
62.5°	618.0	619.9	629.3	625.6	633.1	631.2	636.8	636.8	646.2	653.7	663.1
65°	522.2	524.1	531.6	531.6	529.7	535.4	541.0	544.8	544.8	550.4	557.9
67.5°	450.8	456.5	464.0	467.8	471.5	471.5	477.1	479.0	482.8	484.7	488.4
70°	402.0	409.5	417.0	420.8	422.7	426.4	428.3	428.3	432.1	433.9	437.7
72.5°	366.3	373.8	379.5	379.5	383.2	385.1	385.1	387.0	388.9	392.6	396.4
75°	336.3	341.9	345.7	343.8	343.8	343.8	345.7	345.7	349.4	353.2	356.9
77.5°	308.1	313.7	313.7	310.0	310.0	310.0	310.0	311.8	313.7	317.5	321.2
80°	287.4	287.4	285.5	285.5	281.8	279.9	279.9	281.8	281.8	285.5	291.2
82.5°	264.9	264.9	263.0	261.1	259.2	257.4	257.4	259.2	261.1	263.0	266.8
85°	244.2	244.2	240.5	240.5	238.6	238.6	238.6	238.6	240.5	242.3	246.1
87.5°	223.5	221.7	219.8	217.9	217.9	217.9	217.9	217.9	219.8	223.5	225.4
90°	202.9	201.0	199.1	199.1	197.2	197.2	199.1	199.1	201.0	202.9	204.8
92.5°	184.1	182.2	180.3	180.3	178.5	178.5	180.3	178.5	182.2	182.2	184.1
95°	167.2	165.3	163.4	163.4	163.4	163.4	163.4	163.4	165.3	165.3	167.2
97.5°	152.2	150.3	148.4	148.4	150.3	148.4	150.3	150.3	150.3	152.2	154.0
100°	139.0	137.1	137.1	139.0	137.1	137.1	139.0	139.0	139.0	139.0	140.9
102.5°	127.7	127.7	127.7	127.7	127.7	127.7	129.6	129.6	129.6	129.6	131.5
105°	116.5	118.3	118.3	118.3	120.2	120.2	120.2	122.1	122.1	122.1	122.1
107.5°	109.0	110.8	110.8	112.7	112.7	114.6	114.6	114.6	114.6	116.5	116.5
110°	101.4	103.3	105.2	107.1	107.1	109.0	109.0	109.0	109.0	109.0	109.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	93.9	95.8	97.7	101.4	103.3	103.3	103.3	103.3	105.2	105.2	103.3
115°	86.4	90.2	92.0	95.8	97.7	97.7	99.6	99.6	99.6	99.6	97.7
117.5°	78.9	84.5	86.4	90.2	92.0	92.0	93.9	93.9	93.9	93.9	92.0
120°	73.3	77.0	80.8	82.7	84.5	86.4	86.4	88.3	88.3	88.3	86.4
122.5°	67.6	71.4	75.1	77.0	78.9	80.8	80.8	80.8	80.8	80.8	80.8
125°	60.1	63.9	67.6	69.5	71.4	73.3	73.3	75.1	75.1	75.1	73.3
127.5°	54.5	58.2	60.1	63.9	65.7	65.7	67.6	67.6	67.6	67.6	65.7
130°	47.0	50.7	54.5	56.4	58.2	58.2	60.1	60.1	60.1	60.1	60.1
132.5°	41.3	45.1	47.0	50.7	50.7	52.6	52.6	54.5	54.5	54.5	52.6
135°	37.6	39.4	41.3	45.1	45.1	47.0	47.0	47.0	47.0	47.0	47.0
137.5°	33.8	35.7	37.6	39.4	39.4	41.3	41.3	41.3	41.3	43.2	41.3
140°	28.2	31.9	33.8	33.8	35.7	35.7	35.7	37.6	37.6	37.6	35.7
142.5°	24.4	26.3	28.2	30.1	31.9	31.9	31.9	31.9	33.8	31.9	31.9
145°	18.8	22.5	24.4	26.3	28.2	28.2	28.2	28.2	28.2	28.2	28.2
147.5°	15.0	16.9	20.7	22.5	22.5	24.4	24.4	24.4	24.4	24.4	24.4
150°	13.1	13.1	16.9	18.8	20.7	20.7	20.7	20.7	20.7	20.7	20.7
152.5°	9.4	11.3	13.1	15.0	16.9	16.9	16.9	16.9	16.9	16.9	16.9
155°	9.4	9.4	11.3	11.3	13.1	13.1	13.1	13.1	15.0	13.1	13.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3621.8	3619.9	3627.5	3619.9	3582.4	3597.4	3591.8	3612.4	3614.3	3619.9	3638.7
5°	3603.0	3603.0	3612.4	3604.9	3569.2	3584.2	3582.4	3603.0	3606.8	3610.5	3631.2
7.5°	3565.5	3567.3	3580.5	3574.9	3537.3	3559.8	3557.9	3582.4	3589.9	3597.4	3616.2
10°	3529.8	3527.9	3542.9	3537.3	3501.6	3527.9	3526.0	3550.4	3561.7	3574.9	3597.4
12.5°	3511.0	3505.3	3511.0	3505.3	3465.9	3486.6	3488.4	3516.6	3529.8	3546.7	3573.0
15°	3511.0	3501.6	3501.6	3490.3	3445.2	3458.4	3460.3	3479.0	3496.0	3512.9	3544.8
17.5°	3507.2	3497.8	3496.0	3486.6	3437.7	3437.7	3435.8	3449.0	3458.4	3475.3	3509.1
20°	3486.6	3482.8	3480.9	3475.3	3430.2	3422.7	3418.9	3418.9	3424.6	3430.2	3464.0
22.5°	3432.1	3435.8	3439.6	3443.4	3407.7	3394.5	3396.4	3392.6	3387.0	3387.0	3415.2
25°	3330.6	3349.4	3364.5	3381.4	3360.7	3351.3	3362.6	3356.9	3347.6	3340.0	3364.5
27.5°	3169.1	3208.5	3240.5	3281.8	3283.7	3276.2	3306.2	3302.5	3300.6	3289.3	3308.1
30°	2945.5	3007.5	3050.7	3110.9	3161.6	3169.1	3219.8	3227.3	3234.8	3229.2	3248.0
32.5°	2675.0	2759.6	2832.8	2926.8	2975.6	3018.8	3090.2	3120.2	3150.3	3159.7	3180.4
35°	2380.1	2475.9	2562.3	2665.6	2742.7	2836.6	2923.0	2968.1	3035.7	3062.0	3092.1
37.5°	2100.2	2190.4	2274.9	2378.2	2502.2	2599.9	2707.0	2808.4	2900.5	2938.0	2983.1
40°	1852.2	1925.5	2006.3	2096.4	2209.2	2336.9	2453.4	2594.3	2703.2	2778.4	2844.1
42.5°	1664.4	1700.1	1769.6	1850.4	1940.5	2070.1	2188.5	2346.3	2477.8	2584.9	2693.8
45°	1497.2	1514.1	1564.8	1608.0	1700.1	1814.7	1940.5	2094.6	2231.7	2368.8	2500.3
47.5°	1354.4	1375.1	1399.5	1425.8	1491.6	1587.4	1696.3	1835.3	1972.5	2132.1	2282.4
50°	1258.6	1264.3	1268.0	1279.3	1318.7	1384.5	1472.8	1591.1	1722.6	1893.6	2053.2
52.5°	1174.1	1174.1	1162.8	1157.2	1172.2	1213.5	1264.3	1348.8	1484.0	1641.8	1810.9
55°	1083.9	1067.0	1063.3	1044.5	1048.2	1067.0	1091.4	1157.2	1268.0	1403.3	1566.7
57.5°	958.1	950.5	950.5	943.0	928.0	937.4	943.0	990.0	1068.9	1185.4	1328.1
60°	813.4	809.6	819.0	820.9	807.8	813.4	811.5	839.7	896.1	990.0	1108.3
62.5°	668.8	685.7	687.5	695.1	687.5	685.7	695.1	719.5	747.7	819.0	911.1
65°	561.7	571.1	573.0	582.3	578.6	578.6	586.1	604.9	621.8	670.6	742.0
67.5°	492.2	488.4	490.3	495.9	490.3	488.4	494.1	505.3	518.5	548.5	599.3
70°	437.7	433.9	433.9	433.9	426.4	420.8	422.7	426.4	432.1	449.0	480.9
72.5°	396.4	396.4	390.7	385.1	379.5	375.7	372.0	368.2	366.3	372.0	388.9
75°	358.8	360.7	358.8	353.2	345.7	338.1	330.6	323.1	313.7	310.0	311.8
77.5°	325.0	326.9	328.7	326.9	319.4	310.0	298.7	287.4	274.3	261.1	253.6
80°	294.9	298.7	300.6	298.7	293.1	285.5	272.4	259.2	240.5	223.5	204.8
82.5°	268.6	274.3	276.1	276.1	272.4	264.9	249.8	234.8	214.2	191.6	167.2
85°	248.0	251.7	255.5	255.5	253.6	246.1	231.1	214.2	193.5	167.2	140.9
87.5°	227.3	229.2	232.9	236.7	232.9	225.4	212.3	193.5	172.8	146.5	116.5
90°	206.6	208.5	212.3	216.0	214.2	206.6	195.4	178.5	155.9	127.7	97.7
92.5°	186.0	189.7	191.6	193.5	195.4	189.7	180.3	163.4	140.9	112.7	84.5
95°	170.9	170.9	174.7	176.6	178.5	172.8	165.3	148.4	127.7	101.4	73.3
97.5°	155.9	155.9	159.7	159.7	161.6	157.8	150.3	135.3	114.6	90.2	62.0
100°	140.9	142.8	144.6	146.5	146.5	144.6	137.1	122.1	103.3	80.8	54.5
102.5°	131.5	131.5	133.4	133.4	135.3	131.5	124.0	110.8	92.0	71.4	47.0
105°	122.1	122.1	124.0	124.0	122.1	118.3	110.8	99.6	82.7	62.0	41.3
107.5°	114.6	114.6	114.6	114.6	112.7	109.0	101.4	88.3	73.3	56.4	37.6
110°	109.0	107.1	107.1	105.2	103.3	97.7	90.2	78.9	65.7	48.8	31.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	103.3	101.4	99.6	97.7	93.9	88.3	80.8	71.4	58.2	43.2	28.2
115°	97.7	95.8	93.9	90.2	86.4	80.8	73.3	63.9	50.7	37.6	24.4
117.5°	92.0	90.2	86.4	82.7	78.9	73.3	65.7	56.4	45.1	33.8	22.5
120°	84.5	82.7	80.8	77.0	73.3	65.7	58.2	50.7	39.4	30.1	18.8
122.5°	78.9	77.0	73.3	71.4	65.7	60.1	52.6	45.1	35.7	26.3	16.9
125°	71.4	69.5	67.6	63.9	60.1	52.6	47.0	39.4	31.9	22.5	13.1
127.5°	65.7	63.9	60.1	56.4	52.6	47.0	41.3	35.7	28.2	18.8	13.1
130°	58.2	56.4	54.5	50.7	47.0	41.3	37.6	30.1	24.4	16.9	11.3
132.5°	50.7	50.7	48.8	45.1	41.3	37.6	31.9	26.3	20.7	15.0	9.4
135°	47.0	45.1	43.2	39.4	37.6	31.9	28.2	22.5	16.9	13.1	7.5
137.5°	41.3	39.4	37.6	35.7	31.9	28.2	24.4	18.8	15.0	11.3	7.5
140°	35.7	33.8	33.8	30.1	28.2	24.4	20.7	16.9	13.1	9.4	5.6
142.5°	31.9	30.1	28.2	26.3	24.4	20.7	16.9	13.1	11.3	7.5	5.6
145°	28.2	26.3	24.4	22.5	20.7	16.9	15.0	11.3	9.4	7.5	5.6
147.5°	22.5	22.5	20.7	18.8	16.9	15.0	13.1	11.3	7.5	5.6	3.8
150°	18.8	18.8	16.9	15.0	15.0	13.1	11.3	9.4	7.5	5.6	3.8
152.5°	16.9	15.0	15.0	13.1	13.1	11.3	9.4	7.5	5.6	5.6	3.8
155°	13.1	13.1	13.1	11.3	11.3	9.4	7.5	7.5	5.6	3.8	3.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3642.5	3619.9	3638.7	3672.5	3668.8	3665.0	3661.3	3668.8	3693.2	3680.1	3659.4
5°	3636.8	3614.3	3635.0	3666.9	3665.0	3659.4	3655.6	3663.1	3687.6	3674.4	3651.9
7.5°	3625.6	3604.9	3619.9	3651.9	3651.9	3648.1	3644.4	3651.9	3674.4	3663.1	3640.6
10°	3606.8	3591.8	3606.8	3636.8	3638.7	3631.2	3627.5	3636.8	3659.4	3653.8	3635.0
12.5°	3591.8	3576.7	3593.6	3623.7	3625.6	3618.1	3612.4	3623.7	3653.8	3657.5	3651.9
15°	3571.1	3557.9	3578.6	3610.5	3610.5	3604.9	3604.9	3619.9	3661.3	3678.2	3687.6
17.5°	3541.0	3531.6	3556.1	3588.0	3589.9	3586.1	3588.0	3618.1	3672.5	3713.9	3740.2
20°	3503.5	3499.7	3526.0	3559.8	3565.5	3567.3	3576.7	3621.8	3697.0	3753.3	3779.6
22.5°	3458.4	3460.3	3490.3	3526.0	3533.5	3539.2	3557.9	3621.8	3715.7	3775.9	3787.1
25°	3407.7	3413.3	3445.2	3488.4	3497.8	3509.1	3541.0	3623.7	3721.4	3760.8	3742.0
27.5°	3353.2	3364.5	3405.8	3450.9	3462.1	3480.9	3522.3	3612.4	3695.1	3697.0	3627.5
30°	3296.8	3310.0	3358.8	3411.4	3430.2	3449.0	3499.7	3586.1	3631.2	3571.1	3449.0
32.5°	3233.0	3251.7	3300.6	3364.5	3387.0	3411.4	3462.1	3535.4	3518.5	3388.9	3214.2
35°	3152.2	3178.5	3234.8	3310.0	3330.6	3362.6	3398.3	3415.2	3340.0	3155.9	2958.7
37.5°	3052.6	3092.1	3157.8	3244.2	3266.8	3287.4	3296.8	3249.9	3099.6	2900.5	2695.7
40°	2938.0	2998.1	3069.5	3165.3	3187.9	3187.9	3154.1	3054.5	2864.8	2603.7	2376.3
42.5°	2799.0	2872.3	2962.5	3058.3	3080.8	3054.5	2973.7	2799.0	2583.0	2291.8	2051.4
45°	2629.9	2727.6	2829.1	2928.6	2939.9	2881.7	2737.0	2515.4	2248.6	1978.1	1748.9
47.5°	2428.9	2556.7	2667.5	2780.2	2765.2	2667.5	2474.0	2222.3	1940.5	1685.0	1501.0
50°	2203.5	2353.8	2477.8	2584.9	2552.9	2417.7	2190.4	1927.4	1647.5	1429.6	1277.4
52.5°	1963.1	2135.9	2259.9	2346.3	2303.1	2141.5	1891.7	1640.0	1410.8	1211.7	1110.2
55°	1713.2	1887.9	2015.7	2083.3	2026.9	1852.2	1606.1	1377.0	1160.9	1031.3	971.2
57.5°	1470.9	1634.3	1754.6	1809.0	1737.6	1562.9	1335.6	1142.1	986.2	877.3	847.2
60°	1238.0	1371.3	1485.9	1527.2	1450.2	1288.7	1093.3	939.3	824.7	749.5	734.5
62.5°	1021.9	1130.9	1221.0	1253.0	1177.8	1052.0	882.9	768.3	687.5	650.0	631.2
65°	843.5	907.3	999.4	993.7	948.7	832.2	708.2	627.4	574.8	550.4	539.1
67.5°	663.1	721.4	779.6	787.1	730.8	650.0	569.2	511.0	482.8	469.6	464.0
70°	512.8	556.0	591.7	582.3	552.3	501.6	450.8	418.9	407.6	402.0	402.0
72.5°	398.2	420.8	437.7	426.4	407.6	381.3	356.9	343.8	345.7	349.4	353.2
75°	308.1	313.7	317.5	306.2	302.4	285.5	283.7	285.5	296.8	308.1	313.7
77.5°	236.7	229.2	223.5	212.3	214.2	212.3	221.7	236.7	253.6	270.5	285.5
80°	182.2	165.3	152.2	140.9	146.5	155.9	174.7	197.2	219.8	238.6	257.4
82.5°	140.9	116.5	97.7	86.4	97.7	112.7	137.1	165.3	191.6	212.3	232.9
85°	109.0	80.8	58.2	47.0	58.2	80.8	107.1	139.0	167.2	189.7	210.4
87.5°	84.5	58.2	31.9	18.8	31.9	56.4	86.4	116.5	144.6	170.9	191.6
90°	67.6	39.4	15.0	3.8	16.9	39.4	67.6	97.7	125.9	154.0	174.7
92.5°	54.5	28.2	7.5	0.0	9.4	30.1	56.4	84.5	112.7	139.0	159.7
95°	45.1	22.5	5.6	0.0	7.5	22.5	45.1	73.3	99.6	125.9	142.8
97.5°	37.6	16.9	3.8	0.0	3.8	18.8	37.6	62.0	88.3	112.7	129.6
100°	31.9	15.0	3.8	0.0	3.8	15.0	31.9	54.5	77.0	99.6	116.5
102.5°	26.3	11.3	1.9	1.9	1.9	11.3	28.2	47.0	67.6	88.3	105.2
105°	24.4	9.4	1.9	1.9	1.9	9.4	24.4	41.3	60.1	78.9	93.9
107.5°	20.7	7.5	1.9	1.9	1.9	7.5	20.7	35.7	54.5	71.4	84.5
110°	16.9	7.5	1.9	1.9	1.9	7.5	16.9	31.9	47.0	62.0	75.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.0	5.6	1.9	1.9	1.9	5.6	15.0	28.2	41.3	56.4	67.6
115°	13.1	5.6	1.9	1.9	1.9	5.6	13.1	24.4	35.7	48.8	60.1
117.5°	11.3	5.6	1.9	1.9	1.9	3.8	11.3	20.7	31.9	43.2	54.5
120°	9.4	3.8	1.9	1.9	1.9	3.8	9.4	18.8	28.2	37.6	47.0
122.5°	9.4	3.8	1.9	1.9	1.9	3.8	7.5	15.0	24.4	31.9	41.3
125°	7.5	3.8	1.9	1.9	1.9	1.9	7.5	13.1	20.7	28.2	35.7
127.5°	7.5	3.8	1.9	1.9	1.9	1.9	5.6	11.3	16.9	24.4	31.9
130°	5.6	3.8	1.9	1.9	1.9	1.9	3.8	9.4	15.0	20.7	26.3
132.5°	5.6	3.8	1.9	1.9	1.9	1.9	3.8	7.5	11.3	16.9	22.5
135°	5.6	1.9	1.9	1.9	1.9	1.9	1.9	5.6	9.4	13.1	16.9
137.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	3.8	7.5	9.4	15.0
140°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.6	7.5	11.3
142.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.6	9.4
145°	3.8	1.9	1.9	3.8	3.8	1.9	1.9	3.8	3.8	5.6	7.5
147.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6
150°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.6
152.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
155°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3655.6	3612.4	3635.0	3627.5	3635.0	3653.8	3651.9	3646.2	3650.0	3640.6	3631.2
5°	3648.1	3604.9	3627.5	3618.1	3627.5	3646.2	3642.5	3636.8	3642.5	3631.2	3621.8
7.5°	3638.7	3599.3	3625.6	3623.7	3640.6	3665.0	3666.9	3666.9	3680.1	3663.1	3655.6
10°	3638.7	3618.1	3653.8	3666.9	3710.1	3742.0	3745.8	3753.3	3775.9	3772.1	3753.3
12.5°	3678.2	3674.4	3727.0	3758.9	3798.4	3843.5	3867.9	3875.4	3890.4	3879.2	3871.7
15°	3728.9	3747.7	3805.9	3841.6	3884.8	3918.6	3924.3	3928.0	3939.3	3922.4	3909.2
17.5°	3796.5	3807.8	3854.8	3869.8	3898.0	3903.6	3896.1	3877.3	3877.3	3839.7	3828.5
20°	3828.5	3822.8	3841.6	3817.2	3805.9	3772.1	3740.2	3704.5	3702.6	3663.1	3659.4
22.5°	3800.3	3762.7	3723.3	3663.1	3636.8	3588.0	3544.8	3524.1	3511.0	3460.3	3447.1
25°	3700.7	3608.7	3550.4	3479.0	3415.2	3358.8	3317.5	3274.3	3233.0	3191.6	3172.8
27.5°	3527.9	3441.5	3347.6	3248.0	3159.7	3073.3	3003.8	2960.6	2921.1	2866.6	2838.5
30°	3315.6	3195.4	3092.1	2996.3	2851.6	2746.4	2688.2	2601.8	2571.7	2547.3	2494.7
32.5°	3065.8	2921.1	2780.2	2650.6	2502.2	2404.5	2327.5	2263.6	2244.9	2181.0	2166.0
35°	2789.6	2599.9	2440.2	2312.5	2205.4	2087.1	2023.2	1980.0	1942.4	1899.2	1891.7
37.5°	2464.6	2293.7	2113.4	2000.6	1916.1	1814.7	1765.8	1735.8	1718.9	1686.9	1681.3
40°	2137.8	1966.8	1842.8	1730.1	1677.5	1623.1	1587.4	1574.2	1566.7	1555.4	1544.2
42.5°	1841.0	1690.7	1602.4	1527.2	1504.7	1478.4	1469.0	1476.5	1469.0	1465.3	1463.4
45°	1589.2	1474.7	1412.7	1390.1	1384.5	1377.0	1384.5	1397.6	1399.5	1395.8	1395.8
47.5°	1360.1	1305.6	1279.3	1283.0	1292.4	1298.1	1311.2	1328.1	1331.9	1322.5	1326.2
50°	1209.8	1177.8	1172.2	1187.2	1207.9	1215.4	1230.4	1243.6	1241.7	1238.0	1234.2
52.5°	1068.9	1059.5	1074.5	1089.6	1112.1	1115.9	1121.5	1127.1	1125.2	1117.7	1114.0
55°	950.5	958.1	971.2	976.8	993.7	991.9	993.7	993.7	986.2	982.5	976.8
57.5°	843.5	845.3	852.9	854.7	864.1	860.4	858.5	854.7	843.5	841.6	835.9
60°	734.5	730.8	747.7	734.5	742.0	734.5	732.6	723.2	712.0	710.1	706.3
62.5°	631.2	623.7	634.9	629.3	633.1	625.6	621.8	610.5	601.1	599.3	597.4
65°	539.1	535.4	546.7	544.8	548.5	539.1	535.4	527.9	520.4	518.5	516.6
67.5°	462.1	471.5	477.1	477.1	480.9	479.0	469.6	467.8	465.9	458.4	458.4
70°	405.8	411.4	422.7	424.5	422.7	426.4	418.9	417.0	415.2	411.4	409.5
72.5°	360.7	368.2	379.5	381.3	379.5	379.5	375.7	373.8	373.8	368.2	368.2
75°	325.0	334.4	343.8	343.8	343.8	340.0	336.3	336.3	332.5	330.6	326.9
77.5°	294.9	306.2	313.7	311.8	310.0	306.2	306.2	300.6	294.9	294.9	291.2
80°	272.4	279.9	285.5	283.7	281.8	276.1	274.3	268.6	264.9	259.2	259.2
82.5°	248.0	257.4	261.1	259.2	255.5	249.8	248.0	244.2	240.5	238.6	234.8
85°	227.3	236.7	238.6	234.8	231.1	227.3	225.4	223.5	221.7	217.9	217.9
87.5°	206.6	216.0	216.0	214.2	210.4	208.5	206.6	204.8	202.9	201.0	199.1
90°	189.7	197.2	197.2	195.4	193.5	191.6	189.7	187.9	186.0	184.1	184.1
92.5°	172.8	180.3	180.3	178.5	176.6	174.7	174.7	172.8	170.9	169.1	167.2
95°	157.8	165.3	165.3	165.3	163.4	161.6	161.6	159.7	157.8	157.8	155.9
97.5°	142.8	150.3	150.3	150.3	148.4	146.5	146.5	144.6	144.6	144.6	142.8
100°	129.6	135.3	137.1	137.1	135.3	135.3	135.3	133.4	133.4	133.4	131.5
102.5°	116.5	122.1	125.9	125.9	125.9	124.0	124.0	124.0	124.0	124.0	122.1
105°	105.2	110.8	114.6	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5
107.5°	95.8	101.4	105.2	107.1	109.0	109.0	110.8	110.8	110.8	110.8	110.8
110°	86.4	92.0	97.7	99.6	101.4	103.3	103.3	105.2	103.3	103.3	103.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	77.0	84.5	88.3	92.0	93.9	95.8	97.7	97.7	97.7	97.7	97.7
115°	69.5	77.0	80.8	84.5	88.3	90.2	90.2	92.0	92.0	92.0	90.2
117.5°	62.0	69.5	73.3	77.0	78.9	82.7	84.5	84.5	84.5	84.5	82.7
120°	56.4	62.0	65.7	69.5	73.3	75.1	77.0	77.0	77.0	77.0	77.0
122.5°	48.8	54.5	60.1	63.9	65.7	67.6	69.5	69.5	69.5	69.5	69.5
125°	43.2	48.8	52.6	56.4	58.2	62.0	62.0	62.0	62.0	62.0	62.0
127.5°	37.6	43.2	47.0	50.7	52.6	54.5	56.4	56.4	56.4	56.4	56.4
130°	31.9	37.6	41.3	45.1	47.0	48.8	48.8	50.7	50.7	50.7	50.7
132.5°	28.2	31.9	35.7	39.4	41.3	43.2	43.2	45.1	45.1	45.1	45.1
135°	22.5	28.2	30.1	33.8	35.7	37.6	37.6	39.4	39.4	39.4	39.4
137.5°	18.8	22.5	26.3	30.1	31.9	31.9	33.8	33.8	35.7	35.7	35.7
140°	15.0	16.9	22.5	24.4	26.3	28.2	30.1	30.1	30.1	30.1	30.1
142.5°	11.3	15.0	16.9	20.7	22.5	24.4	26.3	26.3	26.3	26.3	26.3
145°	9.4	11.3	13.1	16.9	18.8	20.7	22.5	22.5	22.5	22.5	22.5
147.5°	7.5	9.4	11.3	13.1	15.0	16.9	18.8	18.8	18.8	18.8	18.8
150°	5.6	7.5	9.4	9.4	11.3	13.1	15.0	16.9	16.9	16.9	16.9
152.5°	5.6	5.6	7.5	7.5	9.4	11.3	13.1	13.1	13.1	13.1	13.1
155°	3.8	5.6	5.6	5.6	7.5	7.5	9.4	11.3	11.3	11.3	11.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3636.8	3644.4	3640.6	3635.0	3633.1	3642.5	3633.1	3589.9	3606.8	3608.7	3621.8
5°	3631.2	3636.8	3633.1	3629.3	3623.7	3635.0	3623.7	3578.6	3595.5	3597.4	3610.5
7.5°	3668.8	3670.7	3670.7	3661.3	3646.2	3651.9	3636.8	3586.1	3595.5	3595.5	3604.9
10°	3762.7	3766.5	3772.1	3747.7	3728.9	3713.9	3693.2	3631.2	3629.3	3614.3	3614.3
12.5°	3884.8	3875.4	3866.0	3854.8	3839.7	3820.9	3790.9	3717.6	3693.2	3668.8	3644.4
15°	3920.5	3916.7	3914.9	3909.2	3899.8	3894.2	3871.7	3798.4	3762.7	3732.7	3689.4
17.5°	3826.6	3834.1	3858.5	3860.4	3871.7	3894.2	3890.4	3839.7	3807.8	3794.6	3742.0
20°	3657.5	3659.4	3689.4	3702.6	3751.4	3789.0	3817.2	3811.5	3804.0	3819.1	3779.6
22.5°	3454.6	3467.8	3499.7	3520.4	3567.3	3610.5	3655.6	3680.1	3719.5	3781.5	3774.0
25°	3178.5	3195.4	3240.5	3274.3	3340.0	3405.8	3465.9	3509.1	3556.1	3674.4	3713.9
27.5°	2847.9	2874.2	2932.4	2966.2	3058.3	3125.9	3212.3	3296.8	3362.6	3497.8	3578.6
30°	2500.3	2522.9	2584.9	2631.8	2710.7	2802.8	2911.7	3032.0	3140.9	3278.0	3379.5
32.5°	2175.3	2199.8	2250.5	2291.8	2380.1	2457.1	2577.4	2725.8	2827.2	3016.9	3152.2
35°	1891.7	1914.2	1949.9	1985.6	2058.9	2137.8	2241.1	2385.7	2515.4	2712.6	2883.6
37.5°	1692.6	1696.3	1717.0	1737.6	1792.1	1852.2	1933.0	2060.8	2181.0	2393.3	2581.1
40°	1549.8	1549.8	1561.1	1566.7	1591.1	1626.8	1677.5	1777.1	1876.7	2038.2	2267.4
42.5°	1461.5	1457.7	1457.7	1459.6	1457.7	1474.7	1504.7	1551.7	1640.0	1773.3	1951.8
45°	1395.8	1388.2	1382.6	1369.5	1361.9	1361.9	1363.8	1380.7	1431.4	1517.9	1662.5
47.5°	1322.5	1320.6	1311.2	1296.2	1283.0	1273.6	1258.6	1253.0	1268.0	1316.9	1414.5
50°	1238.0	1228.6	1219.2	1207.9	1192.9	1183.5	1155.3	1157.2	1144.0	1166.6	1217.3
52.5°	1114.0	1106.5	1102.7	1093.3	1087.7	1083.9	1061.4	1038.8	1033.2	1037.0	1055.7
55°	976.8	980.6	965.6	973.1	971.2	954.3	944.9	928.0	922.4	920.5	929.9
57.5°	834.1	837.8	828.4	835.9	835.9	826.6	820.9	820.9	807.8	796.5	809.6
60°	704.5	696.9	702.6	712.0	712.0	706.3	702.6	702.6	693.2	689.4	698.8
62.5°	599.3	591.7	597.4	606.8	608.6	604.9	601.1	601.1	589.9	589.9	597.4
65°	518.5	520.4	518.5	526.0	526.0	527.9	524.1	520.4	507.2	512.8	511.0
67.5°	460.2	458.4	458.4	465.9	464.0	467.8	464.0	458.4	449.0	441.5	439.6
70°	411.4	409.5	409.5	413.3	415.2	415.2	413.3	409.5	396.4	388.9	383.2
72.5°	368.2	366.3	368.2	370.1	372.0	373.8	372.0	368.2	356.9	347.5	338.1
75°	328.7	326.9	332.5	332.5	334.4	334.4	336.3	334.4	325.0	313.7	302.4
77.5°	289.3	291.2	296.8	298.7	302.4	304.3	306.2	306.2	296.8	287.4	272.4
80°	257.4	261.1	264.9	266.8	270.5	276.1	278.0	279.9	272.4	263.0	246.1
82.5°	234.8	236.7	240.5	242.3	248.0	249.8	251.7	255.5	251.7	242.3	223.5
85°	216.0	217.9	221.7	221.7	225.4	229.2	231.1	232.9	231.1	221.7	202.9
87.5°	199.1	201.0	202.9	204.8	206.6	208.5	210.4	212.3	210.4	201.0	184.1
90°	184.1	184.1	186.0	186.0	187.9	189.7	193.5	193.5	191.6	184.1	167.2
92.5°	167.2	169.1	169.1	170.9	172.8	174.7	176.6	176.6	174.7	167.2	152.2
95°	155.9	155.9	157.8	157.8	159.7	159.7	161.6	161.6	159.7	152.2	137.1
97.5°	142.8	142.8	142.8	142.8	144.6	144.6	146.5	146.5	144.6	137.1	124.0
100°	131.5	131.5	131.5	131.5	131.5	133.4	133.4	133.4	131.5	124.0	110.8
102.5°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	118.3	112.7	99.6
105°	116.5	116.5	116.5	114.6	114.6	114.6	112.7	112.7	107.1	101.4	90.2
107.5°	109.0	109.0	109.0	107.1	107.1	105.2	103.3	103.3	97.7	92.0	80.8
110°	103.3	103.3	103.3	101.4	99.6	97.7	95.8	93.9	88.3	80.8	71.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.7	97.7	95.8	95.8	93.9	92.0	88.3	86.4	80.8	73.3	63.9
115°	90.2	90.2	90.2	88.3	86.4	84.5	82.7	78.9	73.3	65.7	56.4
117.5°	82.7	82.7	82.7	80.8	78.9	77.0	75.1	71.4	65.7	58.2	50.7
120°	75.1	75.1	75.1	73.3	71.4	69.5	67.6	63.9	58.2	52.6	43.2
122.5°	69.5	69.5	67.6	65.7	63.9	62.0	60.1	56.4	52.6	45.1	37.6
125°	62.0	62.0	60.1	60.1	58.2	56.4	54.5	50.7	45.1	39.4	33.8
127.5°	56.4	54.5	54.5	54.5	52.6	50.7	47.0	45.1	39.4	33.8	28.2
130°	48.8	48.8	48.8	47.0	47.0	45.1	41.3	37.6	33.8	30.1	24.4
132.5°	43.2	43.2	43.2	43.2	41.3	39.4	35.7	33.8	30.1	24.4	20.7
135°	39.4	39.4	37.6	37.6	35.7	33.8	31.9	28.2	24.4	20.7	16.9
137.5°	33.8	33.8	33.8	31.9	31.9	30.1	26.3	24.4	22.5	18.8	15.0
140°	30.1	30.1	28.2	28.2	26.3	26.3	24.4	20.7	18.8	15.0	13.1
142.5°	26.3	26.3	24.4	24.4	22.5	22.5	20.7	18.8	15.0	13.1	9.4
145°	22.5	22.5	20.7	20.7	20.7	18.8	16.9	15.0	13.1	11.3	9.4
147.5°	18.8	18.8	18.8	16.9	16.9	15.0	15.0	13.1	11.3	9.4	7.5
150°	16.9	16.9	15.0	15.0	15.0	13.1	11.3	11.3	9.4	7.5	5.6
152.5°	13.1	13.1	13.1	13.1	11.3	11.3	9.4	9.4	7.5	5.6	5.6
155°	11.3	11.3	11.3	9.4	9.4	9.4	7.5	7.5	5.6	5.6	3.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3616.2	3614.3	3631.2	3629.3	3606.8	3640.6	3663.1
5°	3606.8	3604.9	3619.9	3623.7	3599.3	3635.0	3659.4
7.5°	3599.3	3597.4	3614.3	3619.9	3595.5	3627.5	3653.8
10°	3601.2	3591.8	3606.8	3610.5	3588.0	3621.8	3644.4
12.5°	3614.3	3591.8	3597.4	3597.4	3576.7	3606.8	3631.2
15°	3646.2	3599.3	3591.8	3586.1	3559.8	3588.0	3612.4
17.5°	3681.9	3618.1	3591.8	3573.0	3541.0	3565.5	3591.8
20°	3717.6	3638.7	3595.5	3565.5	3522.3	3544.8	3563.6
22.5°	3734.5	3657.5	3599.3	3554.2	3499.7	3511.0	3531.6
25°	3712.0	3650.0	3591.8	3537.3	3471.5	3473.4	3490.3
27.5°	3629.3	3612.4	3574.9	3520.4	3449.0	3439.6	3452.7
30°	3488.4	3535.4	3537.3	3497.8	3422.7	3403.9	3409.5
32.5°	3291.2	3396.4	3458.4	3450.9	3385.1	3358.8	3362.6
35°	3063.9	3195.4	3330.6	3375.7	3328.8	3308.1	3300.6
37.5°	2791.5	2968.1	3148.4	3259.3	3251.7	3238.6	3231.1
40°	2490.9	2703.2	2917.4	3093.9	3148.4	3148.4	3152.2
42.5°	2169.7	2417.7	2652.5	2876.0	3003.8	3032.0	3043.2
45°	1859.8	2109.6	2365.1	2622.4	2793.4	2881.7	2913.6
47.5°	1578.0	1829.7	2072.0	2353.8	2581.1	2695.7	2746.4
50°	1337.5	1525.4	1780.9	2060.8	2308.7	2449.6	2549.2
52.5°	1138.4	1284.9	1508.5	1769.6	2019.4	2212.9	2305.0
55°	971.2	1070.8	1260.5	1485.9	1724.5	1925.5	2032.6
57.5°	830.3	909.2	1038.8	1226.7	1427.7	1626.8	1741.4
60°	706.3	760.8	849.1	997.5	1168.4	1339.4	1450.2
62.5°	599.3	634.9	693.2	802.1	935.5	1068.9	1172.2
65°	516.6	531.6	563.6	631.2	732.6	834.1	922.4
67.5°	435.8	445.2	469.6	511.0	561.7	634.9	693.2
70°	375.7	375.7	377.6	402.0	428.3	475.3	516.6
72.5°	326.9	321.2	310.0	315.6	321.2	347.5	373.8
75°	287.4	274.3	255.5	248.0	244.2	248.0	263.0
77.5°	253.6	234.8	212.3	193.5	178.5	172.8	186.0
80°	225.4	202.9	176.6	152.2	127.7	114.6	120.2
82.5°	202.9	174.7	146.5	118.3	90.2	71.4	71.4
85°	178.5	152.2	122.1	92.0	63.9	39.4	35.7
87.5°	161.6	133.4	101.4	73.3	45.1	20.7	11.3
90°	144.6	116.5	86.4	58.2	31.9	9.4	0.0
92.5°	129.6	103.3	75.1	47.0	22.5	5.6	0.0
95°	116.5	92.0	63.9	39.4	18.8	3.8	1.9
97.5°	103.3	80.8	56.4	31.9	13.1	3.8	1.9
100°	93.9	71.4	48.8	26.3	11.3	1.9	1.9
102.5°	82.7	63.9	41.3	22.5	9.4	1.9	1.9
105°	73.3	56.4	35.7	18.8	7.5	1.9	1.9
107.5°	65.7	48.8	31.9	16.9	7.5	1.9	1.9
110°	58.2	43.2	28.2	15.0	5.6	1.9	1.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.6	37.6	24.4	13.1	3.8	1.9	1.9
115°	45.1	33.8	20.7	11.3	3.8	1.9	1.9
117.5°	39.4	28.2	18.8	9.4	3.8	1.9	1.9
120°	33.8	24.4	15.0	7.5	1.9	1.9	1.9
122.5°	30.1	20.7	13.1	7.5	1.9	1.9	1.9
125°	26.3	18.8	11.3	5.6	1.9	1.9	1.9
127.5°	22.5	15.0	9.4	3.8	1.9	1.9	1.9
130°	18.8	13.1	7.5	3.8	1.9	1.9	1.9
132.5°	15.0	11.3	7.5	3.8	1.9	1.9	1.9
135°	13.1	9.4	5.6	3.8	1.9	1.9	1.9
137.5°	11.3	7.5	3.8	3.8	3.8	1.9	1.9
140°	9.4	5.6	3.8	3.8	3.8	3.8	1.9
142.5°	7.5	5.6	3.8	3.8	3.8	3.8	1.9
145°	5.6	3.8	3.8	3.8	3.8	3.8	1.9
147.5°	5.6	3.8	3.8	3.8	3.8	3.8	1.9
150°	3.8	3.8	3.8	3.8	3.8	3.8	3.8
152.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8
155°	3.8	3.8	3.8	3.8	3.8	3.8	3.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)