

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-LD5-90SL-LC-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

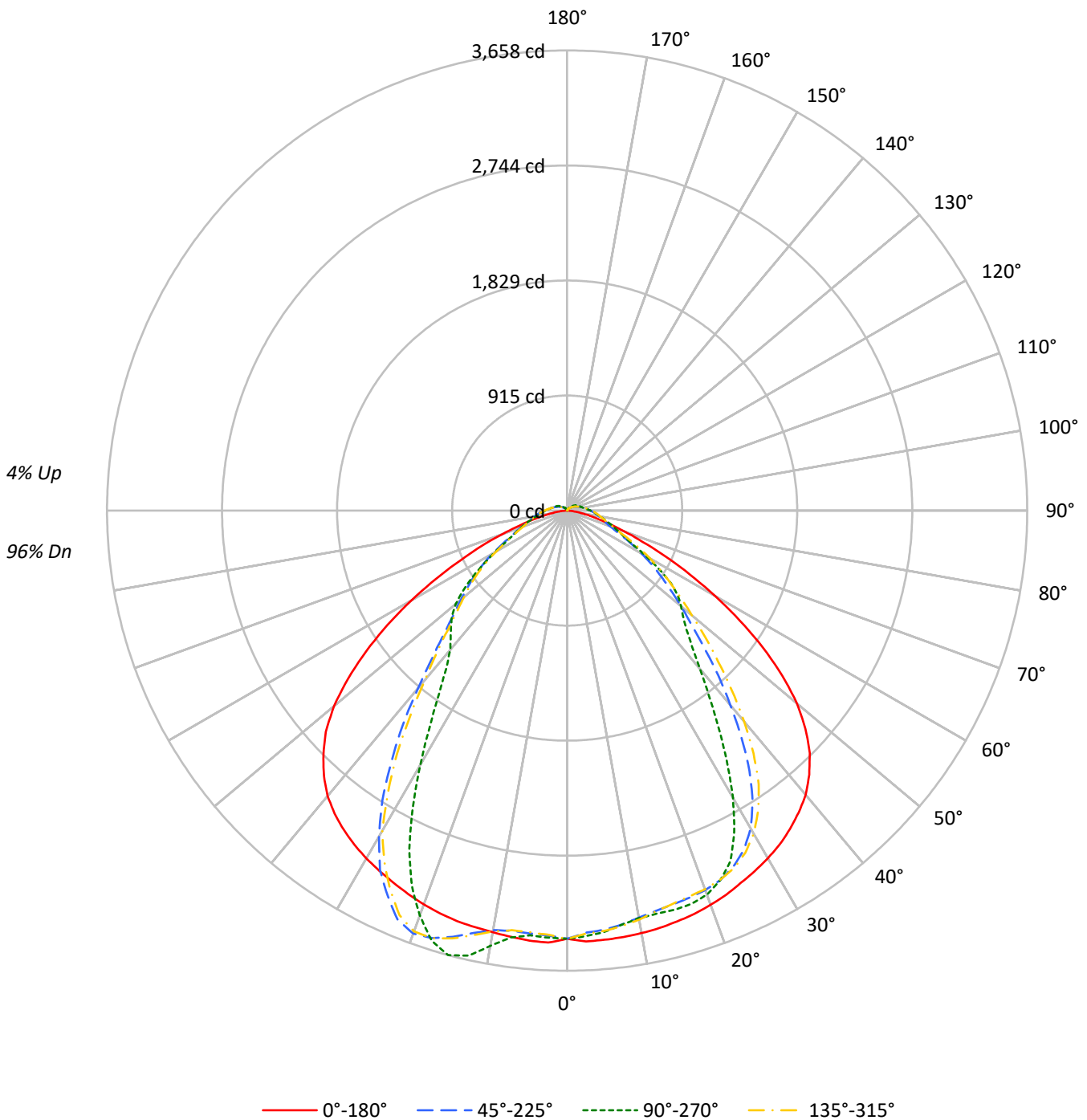
Lumens per Lamp: N/A  
Luminaire Lumens: 8114.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 69  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	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°	13752	13752	13752	13752
5°	13871	13207	13900	13311
10°	13955	12658	13926	13517
15°	14083	12489	14076	13905
20°	14259	12290	14244	12956
25°	14457	11660	14449	11266
30°	14754	10105	14762	8953
35°	15071	8172	15114	6915
40°	15358	6579	15422	5796
45°	15342	5573	15420	5427
50°	14722	5131	14928	5016
55°	13107	4612	13435	4192
60°	10679	3530	11246	3237
65°	7985	2700	8603	2561
70°	5477	2331	6173	2229
75°	3630	2103	4228	1989
80°	2405	1961	2819	1804
85°	1314	1957	1731	1787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.3	4.0
10°-20°	961.9	11.9
20°-30°	1462.4	18.0
30°-40°	1568.8	19.3
40°-50°	1361.6	16.8
50°-60°	1009.1	12.4
60°-70°	578.2	7.1
70°-80°	320.2	3.9
80°-90°	195.0	2.4
90°-100°	126.8	1.6
100°-110°	84.9	1.0
110°-120°	57.3	0.7
120°-130°	35.2	0.4
130°-140°	18.5	0.2
140°-150°	8.4	0.1
150°-160°	2.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2747.7	33.9
0°-40°	4316.5	53.2
0°-60°	6687.1	82.4
0°-90°	7780.4	95.9
90°-120°	269.0	3.3
90°-150°	331.2	4.1
90°-180°	334.0	4.1
0°-180°	8114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3404	3404	3404	3404	3404	
5°	3425	3363	3432	3390	3425	326
15°	3381	3286	3379	3658	3381	957
25°	3266	3073	3265	2969	3266	1510
35°	3089	2092	3098	1770	3089	1933
45°	2727	1341	2741	1306	2727	2088
55°	1902	1006	1950	914	1902	1687
65°	863	510	930	484	863	870
75°	246	324	287	306	246	281
85°	33	223	44	204	33	44
90°	0	186	4	172	0	1
95°	2	153	0	146	2	1
105°	2	114	2	109	2	2
115°	2	93	2	84	2	2
125°	2	70	2	58	2	2
135°	2	44	2	37	2	1
145°	2	26	4	21	2	1
155°	4	12	4	10	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#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3428.2	3419.4	3415.9	3408.9	3414.2	3435.3	3421.2	3398.3	3400.1	3359.7	3380.8
5°	3424.7	3414.2	3408.9	3401.9	3405.4	3424.7	3410.6	3387.8	3386.0	3345.6	3364.9
7.5°	3419.4	3408.9	3400.1	3394.8	3396.6	3412.4	3394.8	3368.5	3363.2	3319.2	3336.8
10°	3410.6	3403.6	3391.3	3382.5	3380.8	3398.3	3370.2	3343.8	3331.5	3285.8	3303.4
12.5°	3398.3	3387.8	3375.5	3359.7	3357.9	3368.5	3345.6	3308.7	3296.4	3259.5	3278.8
15°	3380.8	3368.5	3354.4	3336.8	3328.0	3335.1	3306.9	3273.5	3271.8	3240.1	3266.5
17.5°	3361.4	3343.8	3328.0	3303.4	3291.1	3296.4	3273.5	3243.6	3247.1	3227.8	3257.7
20°	3335.1	3315.7	3291.1	3266.5	3248.9	3257.7	3241.9	3219.0	3224.3	3210.2	3236.6
22.5°	3305.2	3278.8	3248.9	3220.8	3206.7	3219.0	3206.7	3187.4	3189.1	3180.3	3196.2
25°	3266.5	3236.6	3201.4	3166.3	3159.2	3168.0	3161.0	3145.2	3138.1	3124.1	3131.1
27.5°	3231.3	3197.9	3154.0	3117.1	3104.7	3122.3	3106.5	3080.1	3060.8	3041.5	3027.4
30°	3190.9	3150.5	3101.2	3059.0	3048.5	3055.5	3032.7	2992.2	2941.2	2916.6	2878.0
32.5°	3146.9	3094.2	3032.7	2985.2	2978.2	2972.9	2930.7	2872.7	2793.6	2744.3	2684.6
35°	3088.9	3030.9	2957.1	2899.1	2888.5	2858.6	2790.1	2712.7	2610.7	2526.3	2424.4
37.5°	3023.9	2955.3	2878.0	2800.6	2770.7	2710.9	2614.2	2533.4	2378.7	2276.7	2153.6
40°	2950.0	2867.4	2772.5	2679.3	2630.1	2533.4	2422.6	2303.1	2153.6	2016.5	1912.8
42.5°	2848.1	2760.2	2647.6	2543.9	2459.5	2331.2	2201.1	2032.3	1895.2	1779.2	1673.7
45°	2726.8	2621.3	2491.2	2366.4	2259.1	2106.2	1953.2	1784.4	1670.2	1534.8	1462.7
47.5°	2570.3	2456.0	2317.1	2178.2	2037.6	1868.8	1708.8	1547.1	1432.8	1336.1	1283.4
50°	2385.7	2280.2	2127.3	1962.0	1807.3	1631.5	1471.5	1350.2	1239.4	1179.7	1139.2
52.5°	2157.1	2058.7	1902.2	1722.9	1573.5	1401.2	1255.3	1156.8	1077.7	1033.7	1019.7
55°	1902.2	1816.1	1661.4	1494.4	1341.4	1183.2	1072.4	986.3	935.3	908.9	910.7
57.5°	1629.7	1562.9	1417.0	1267.6	1123.4	1003.9	903.6	835.1	796.4	794.6	799.9
60°	1357.2	1308.0	1181.4	1053.1	926.5	829.8	756.0	708.5	683.9	685.6	683.9
62.5°	1097.0	1051.3	959.9	854.4	754.2	689.2	622.4	603.0	581.9	580.2	580.2
65°	863.2	828.0	754.2	678.6	603.0	560.8	527.4	504.6	488.7	485.2	487.0
67.5°	648.7	634.7	583.7	532.7	485.2	458.9	430.7	425.5	413.1	413.1	416.7
70°	483.5	472.9	444.8	414.9	395.6	378.0	363.9	363.9	362.2	360.4	369.2
72.5°	349.9	351.6	342.8	320.0	318.2	314.7	311.2	316.5	318.2	323.5	334.0
75°	246.1	251.4	251.4	247.9	254.9	263.7	269.0	277.8	288.3	295.4	307.7
77.5°	174.0	174.0	182.8	193.4	207.5	223.3	237.3	249.6	263.7	272.5	283.0
80°	112.5	117.8	131.9	151.2	170.5	191.6	211.0	226.8	240.9	254.9	262.0
82.5°	66.8	75.6	93.2	117.8	142.4	168.8	188.1	207.5	223.3	237.3	242.6
85°	33.4	45.7	66.8	93.2	119.5	147.7	172.3	189.9	207.5	219.8	226.8
87.5°	10.5	24.6	47.5	72.1	100.2	128.3	154.7	174.0	189.9	200.4	207.5
90°	0.0	12.3	33.4	59.8	86.1	114.3	138.9	160.0	175.8	184.6	189.9
92.5°	0.0	7.0	26.4	49.2	73.8	102.0	126.6	145.9	160.0	168.8	172.3
95°	1.8	5.3	19.3	40.4	65.0	91.4	114.3	131.9	145.9	154.7	156.5
97.5°	1.8	3.5	15.8	33.4	56.3	80.9	103.7	121.3	131.9	140.6	142.4
100°	1.8	3.5	12.3	29.9	49.2	72.1	93.2	109.0	121.3	128.3	130.1
102.5°	1.8	1.8	10.5	24.6	44.0	63.3	82.6	98.5	109.0	116.0	119.5
105°	1.8	1.8	8.8	21.1	38.7	56.3	73.8	89.7	98.5	105.5	109.0
107.5°	1.8	1.8	7.0	17.6	33.4	49.2	66.8	79.1	89.7	96.7	100.2
110°	1.8	1.8	5.3	15.8	28.1	44.0	58.0	70.3	80.9	87.9	91.4



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CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	1.8	5.3	14.1	24.6	38.7	51.0	63.3	72.1	79.1	84.4
115°	1.8	1.8	5.3	12.3	22.9	33.4	45.7	56.3	65.0	72.1	77.4
117.5°	1.8	1.8	5.3	10.5	19.3	29.9	40.4	51.0	58.0	65.0	70.3
120°	1.8	1.8	3.5	8.8	17.6	26.4	35.2	44.0	52.7	59.8	65.0
122.5°	1.8	1.8	3.5	8.8	14.1	22.9	31.6	38.7	47.5	52.7	58.0
125°	1.8	1.8	3.5	7.0	12.3	21.1	28.1	35.2	40.4	47.5	52.7
127.5°	1.8	1.8	3.5	7.0	10.5	17.6	24.6	31.6	36.9	42.2	45.7
130°	1.8	1.8	3.5	5.3	8.8	14.1	21.1	26.4	33.4	36.9	40.4
132.5°	1.8	1.8	1.8	5.3	7.0	10.5	15.8	22.9	28.1	33.4	35.2
135°	1.8	1.8	1.8	3.5	7.0	8.8	12.3	17.6	22.9	28.1	31.6
137.5°	1.8	1.8	1.8	3.5	5.3	8.8	10.5	14.1	19.3	22.9	28.1
140°	1.8	1.8	1.8	3.5	5.3	7.0	8.8	12.3	15.8	19.3	22.9
142.5°	1.8	1.8	1.8	3.5	3.5	5.3	7.0	10.5	12.3	15.8	19.3
145°	1.8	1.8	1.8	3.5	3.5	5.3	7.0	8.8	10.5	12.3	15.8
147.5°	1.8	1.8	1.8	3.5	3.5	3.5	5.3	7.0	8.8	10.5	12.3
150°	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	7.0	8.8	10.5
152.5°	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	7.0	8.8
155°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	7.0	7.0
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3373.7	3377.2	3398.3	3396.6	3393.1	3389.6	3389.6	3386.0	3389.6	3398.3	3394.8
5°	3356.1	3361.4	3377.2	3375.5	3372.0	3370.2	3368.5	3363.2	3366.7	3379.0	3375.5
7.5°	3324.5	3329.8	3343.8	3336.8	3331.5	3335.1	3326.3	3321.0	3328.0	3340.3	3338.6
10°	3291.1	3294.6	3312.2	3308.7	3299.9	3301.6	3292.9	3289.3	3298.1	3305.2	3306.9
12.5°	3268.2	3280.6	3296.4	3294.6	3292.9	3294.6	3285.8	3282.3	3287.6	3294.6	3292.9
15°	3263.0	3278.8	3296.4	3296.4	3298.1	3299.9	3291.1	3285.8	3291.1	3296.4	3294.6
17.5°	3257.7	3277.0	3292.9	3291.1	3292.9	3296.4	3282.3	3278.8	3285.8	3292.9	3289.3
20°	3240.1	3257.7	3268.2	3264.7	3264.7	3266.5	3248.9	3248.9	3259.5	3264.7	3266.5
22.5°	3190.9	3212.0	3212.0	3203.2	3203.2	3196.2	3190.9	3180.3	3192.6	3201.4	3208.5
25°	3117.1	3125.8	3115.3	3096.0	3085.4	3076.6	3052.0	3073.1	3073.1	3099.5	3108.3
27.5°	3013.3	2994.0	2964.1	2923.7	2914.9	2886.7	2870.9	2876.2	2885.0	2921.9	2950.0
30°	2842.8	2784.8	2733.8	2716.2	2677.5	2649.4	2621.3	2635.3	2651.2	2672.3	2730.3
32.5°	2617.8	2561.5	2478.9	2449.0	2408.6	2373.4	2340.0	2361.1	2389.2	2403.3	2466.6
35°	2359.3	2292.5	2216.9	2165.9	2123.7	2104.4	2062.2	2092.1	2122.0	2132.5	2187.0
37.5°	2085.1	2016.5	1949.7	1905.7	1865.3	1853.0	1824.9	1846.0	1868.8	1884.6	1930.4
40°	1824.9	1761.6	1710.6	1680.7	1652.6	1642.0	1631.5	1640.3	1657.9	1670.2	1705.3
42.5°	1601.6	1550.6	1515.5	1497.9	1478.5	1464.5	1466.2	1469.7	1478.5	1504.9	1520.7
45°	1406.5	1376.6	1353.7	1350.2	1337.9	1336.1	1334.4	1341.4	1346.7	1362.5	1374.8
47.5°	1250.0	1237.7	1232.4	1239.4	1244.7	1237.7	1241.2	1250.0	1260.5	1260.5	1258.8
50°	1126.9	1130.4	1137.5	1153.3	1163.8	1167.4	1170.9	1181.4	1183.2	1186.7	1181.4
52.5°	1026.7	1030.2	1049.6	1074.2	1086.5	1091.8	1098.8	1109.3	1109.3	1112.9	1105.8
55°	924.7	930.0	949.4	974.0	984.5	991.5	998.6	1005.6	1010.9	1017.9	1012.6
57.5°	812.2	828.0	840.4	847.4	854.4	859.7	865.0	866.7	877.3	879.0	887.8
60°	692.7	696.2	708.5	706.7	701.5	715.5	708.5	720.8	733.1	748.9	750.7
62.5°	578.4	580.2	589.0	585.4	592.5	590.7	596.0	596.0	604.8	611.8	620.6
65°	488.7	490.5	497.5	497.5	495.8	501.0	506.3	509.8	509.8	515.1	522.1
67.5°	421.9	427.2	434.2	437.8	441.3	441.3	446.5	448.3	451.8	453.6	457.1
70°	376.2	383.3	390.3	393.8	395.6	399.1	400.8	400.8	404.4	406.1	409.6
72.5°	342.8	349.9	355.1	355.1	358.6	360.4	360.4	362.2	363.9	367.4	371.0
75°	314.7	320.0	323.5	321.7	321.7	321.7	323.5	323.5	327.0	330.5	334.0
77.5°	288.3	293.6	293.6	290.1	290.1	290.1	290.1	291.8	293.6	297.1	300.6
80°	269.0	269.0	267.2	267.2	263.7	262.0	262.0	263.7	263.7	267.2	272.5
82.5°	247.9	247.9	246.1	244.4	242.6	240.9	240.9	242.6	244.4	246.1	249.6
85°	228.5	228.5	225.0	225.0	223.3	223.3	223.3	223.3	225.0	226.8	230.3
87.5°	209.2	207.5	205.7	203.9	203.9	203.9	203.9	203.9	205.7	209.2	211.0
90°	189.9	188.1	186.4	186.4	184.6	184.6	186.4	186.4	188.1	189.9	191.6
92.5°	172.3	170.5	168.8	168.8	167.0	167.0	168.8	167.0	170.5	170.5	172.3
95°	156.5	154.7	153.0	153.0	153.0	153.0	153.0	153.0	154.7	154.7	156.5
97.5°	142.4	140.6	138.9	138.9	140.6	138.9	140.6	140.6	140.6	142.4	144.2
100°	130.1	128.3	128.3	130.1	128.3	128.3	130.1	130.1	130.1	130.1	131.9
102.5°	119.5	119.5	119.5	119.5	119.5	119.5	121.3	121.3	121.3	121.3	123.1
105°	109.0	110.8	110.8	110.8	112.5	112.5	112.5	114.3	114.3	114.3	114.3
107.5°	102.0	103.7	103.7	105.5	105.5	107.2	107.2	107.2	107.2	109.0	109.0
110°	94.9	96.7	98.5	100.2	100.2	102.0	102.0	102.0	102.0	102.0	102.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	87.9	89.7	91.4	94.9	96.7	96.7	96.7	96.7	98.5	98.5	96.7
115°	80.9	84.4	86.1	89.7	91.4	91.4	93.2	93.2	93.2	93.2	91.4
117.5°	73.8	79.1	80.9	84.4	86.1	86.1	87.9	87.9	87.9	87.9	86.1
120°	68.6	72.1	75.6	77.4	79.1	80.9	80.9	82.6	82.6	82.6	80.9
122.5°	63.3	66.8	70.3	72.1	73.8	75.6	75.6	75.6	75.6	75.6	75.6
125°	56.3	59.8	63.3	65.0	66.8	68.6	68.6	70.3	70.3	70.3	68.6
127.5°	51.0	54.5	56.3	59.8	61.5	61.5	63.3	63.3	63.3	63.3	61.5
130°	44.0	47.5	51.0	52.7	54.5	54.5	56.3	56.3	56.3	56.3	56.3
132.5°	38.7	42.2	44.0	47.5	47.5	49.2	49.2	51.0	51.0	51.0	49.2
135°	35.2	36.9	38.7	42.2	42.2	44.0	44.0	44.0	44.0	44.0	44.0
137.5°	31.6	33.4	35.2	36.9	36.9	38.7	38.7	38.7	38.7	40.4	38.7
140°	26.4	29.9	31.6	31.6	33.4	33.4	33.4	35.2	35.2	35.2	33.4
142.5°	22.9	24.6	26.4	28.1	29.9	29.9	29.9	29.9	31.6	29.9	29.9
145°	17.6	21.1	22.9	24.6	26.4	26.4	26.4	26.4	26.4	26.4	26.4
147.5°	14.1	15.8	19.3	21.1	21.1	22.9	22.9	22.9	22.9	22.9	22.9
150°	12.3	12.3	15.8	17.6	19.3	19.3	19.3	19.3	19.3	19.3	19.3
152.5°	8.8	10.5	12.3	14.1	15.8	15.8	15.8	15.8	15.8	15.8	15.8
155°	8.8	8.8	10.5	10.5	12.3	12.3	12.3	12.3	14.1	12.3	12.3
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-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3389.6	3387.8	3394.8	3387.8	3352.6	3366.7	3361.4	3380.8	3382.5	3387.8	3405.4
5°	3372.0	3372.0	3380.8	3373.7	3340.3	3354.4	3352.6	3372.0	3375.5	3379.0	3398.3
7.5°	3336.8	3338.6	3350.9	3345.6	3310.4	3331.5	3329.8	3352.6	3359.7	3366.7	3384.3
10°	3303.4	3301.6	3315.7	3310.4	3277.0	3301.6	3299.9	3322.7	3333.3	3345.6	3366.7
12.5°	3285.8	3280.6	3285.8	3280.6	3243.6	3263.0	3264.7	3291.1	3303.4	3319.2	3343.8
15°	3285.8	3277.0	3277.0	3266.5	3224.3	3236.6	3238.4	3255.9	3271.8	3287.6	3317.5
17.5°	3282.3	3273.5	3271.8	3263.0	3217.3	3217.3	3215.5	3227.8	3236.6	3252.4	3284.1
20°	3263.0	3259.5	3257.7	3252.4	3210.2	3203.2	3199.7	3199.7	3205.0	3210.2	3241.9
22.5°	3212.0	3215.5	3219.0	3222.5	3189.1	3176.8	3178.6	3175.1	3169.8	3169.8	3196.2
25°	3117.1	3134.6	3148.7	3164.5	3145.2	3136.4	3146.9	3141.7	3132.9	3125.8	3148.7
27.5°	2965.9	3002.8	3032.7	3071.3	3073.1	3066.1	3094.2	3090.7	3088.9	3078.4	3096.0
30°	2756.6	2814.7	2855.1	2911.4	2958.8	2965.9	3013.3	3020.4	3027.4	3022.1	3039.7
32.5°	2503.5	2582.6	2651.2	2739.1	2784.8	2825.2	2892.0	2920.1	2948.3	2957.1	2976.4
35°	2227.5	2317.1	2398.0	2494.7	2566.8	2654.7	2735.6	2777.7	2841.0	2865.6	2893.8
37.5°	1965.5	2049.9	2129.0	2225.7	2341.7	2433.2	2533.4	2628.3	2714.5	2749.6	2791.8
40°	1733.5	1802.0	1877.6	1962.0	2067.5	2187.0	2296.0	2427.9	2529.9	2600.2	2661.7
42.5°	1557.6	1591.1	1656.1	1731.7	1816.1	1937.4	2048.1	2195.8	2318.9	2419.1	2521.1
45°	1401.2	1417.0	1464.5	1504.9	1591.1	1698.3	1816.1	1960.2	2088.6	2216.9	2340.0
47.5°	1267.6	1286.9	1309.8	1334.4	1395.9	1485.6	1587.5	1717.6	1846.0	1995.4	2136.1
50°	1177.9	1183.2	1186.7	1197.2	1234.2	1295.7	1378.3	1489.1	1612.1	1772.1	1921.6
52.5°	1098.8	1098.8	1088.2	1083.0	1097.0	1135.7	1183.2	1262.3	1388.9	1536.6	1694.8
55°	1014.4	998.6	995.1	977.5	981.0	998.6	1021.4	1083.0	1186.7	1313.3	1466.2
57.5°	896.6	889.6	889.6	882.5	868.5	877.3	882.5	926.5	1000.3	1109.3	1243.0
60°	761.2	757.7	766.5	768.3	756.0	761.2	759.5	785.9	838.6	926.5	1037.3
62.5°	625.9	641.7	643.5	650.5	643.5	641.7	650.5	673.3	699.7	766.5	852.7
65°	525.7	534.5	536.2	545.0	541.5	541.5	548.5	566.1	581.9	627.6	694.4
67.5°	460.6	457.1	458.9	464.1	458.9	457.1	462.4	472.9	485.2	513.4	560.8
70°	409.6	406.1	406.1	406.1	399.1	393.8	395.6	399.1	404.4	420.2	450.1
72.5°	371.0	371.0	365.7	360.4	355.1	351.6	348.1	344.6	342.8	348.1	363.9
75°	335.8	337.5	335.8	330.5	323.5	316.5	309.4	302.4	293.6	290.1	291.8
77.5°	304.1	305.9	307.7	305.9	298.9	290.1	279.5	269.0	256.7	244.4	237.3
80°	276.0	279.5	281.3	279.5	274.3	267.2	254.9	242.6	225.0	209.2	191.6
82.5°	251.4	256.7	258.4	258.4	254.9	247.9	233.8	219.8	200.4	179.3	156.5
85°	232.1	235.6	239.1	239.1	237.3	230.3	216.2	200.4	181.1	156.5	131.9
87.5°	212.7	214.5	218.0	221.5	218.0	211.0	198.7	181.1	161.7	137.1	109.0
90°	193.4	195.1	198.7	202.2	200.4	193.4	182.8	167.0	145.9	119.5	91.4
92.5°	174.0	177.6	179.3	181.1	182.8	177.6	168.8	153.0	131.9	105.5	79.1
95°	160.0	160.0	163.5	165.3	167.0	161.7	154.7	138.9	119.5	94.9	68.6
97.5°	145.9	145.9	149.4	149.4	151.2	147.7	140.6	126.6	107.2	84.4	58.0
100°	131.9	133.6	135.4	137.1	137.1	135.4	128.3	114.3	96.7	75.6	51.0
102.5°	123.1	123.1	124.8	124.8	126.6	123.1	116.0	103.7	86.1	66.8	44.0
105°	114.3	114.3	116.0	116.0	114.3	110.8	103.7	93.2	77.4	58.0	38.7
107.5°	107.2	107.2	107.2	107.2	105.5	102.0	94.9	82.6	68.6	52.7	35.2
110°	102.0	100.2	100.2	98.5	96.7	91.4	84.4	73.8	61.5	45.7	29.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	96.7	94.9	93.2	91.4	87.9	82.6	75.6	66.8	54.5	40.4	26.4
115°	91.4	89.7	87.9	84.4	80.9	75.6	68.6	59.8	47.5	35.2	22.9
117.5°	86.1	84.4	80.9	77.4	73.8	68.6	61.5	52.7	42.2	31.6	21.1
120°	79.1	77.4	75.6	72.1	68.6	61.5	54.5	47.5	36.9	28.1	17.6
122.5°	73.8	72.1	68.6	66.8	61.5	56.3	49.2	42.2	33.4	24.6	15.8
125°	66.8	65.0	63.3	59.8	56.3	49.2	44.0	36.9	29.9	21.1	12.3
127.5°	61.5	59.8	56.3	52.7	49.2	44.0	38.7	33.4	26.4	17.6	12.3
130°	54.5	52.7	51.0	47.5	44.0	38.7	35.2	28.1	22.9	15.8	10.5
132.5°	47.5	47.5	45.7	42.2	38.7	35.2	29.9	24.6	19.3	14.1	8.8
135°	44.0	42.2	40.4	36.9	35.2	29.9	26.4	21.1	15.8	12.3	7.0
137.5°	38.7	36.9	35.2	33.4	29.9	26.4	22.9	17.6	14.1	10.5	7.0
140°	33.4	31.6	31.6	28.1	26.4	22.9	19.3	15.8	12.3	8.8	5.3
142.5°	29.9	28.1	26.4	24.6	22.9	19.3	15.8	12.3	10.5	7.0	5.3
145°	26.4	24.6	22.9	21.1	19.3	15.8	14.1	10.5	8.8	7.0	5.3
147.5°	21.1	21.1	19.3	17.6	15.8	14.1	12.3	10.5	7.0	5.3	3.5
150°	17.6	17.6	15.8	14.1	14.1	12.3	10.5	8.8	7.0	5.3	3.5
152.5°	15.8	14.1	14.1	12.3	12.3	10.5	8.8	7.0	5.3	5.3	3.5
155°	12.3	12.3	12.3	10.5	10.5	8.8	7.0	7.0	5.3	3.5	3.5
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-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3408.9	3387.8	3405.4	3437.0	3433.5	3430.0	3426.5	3433.5	3456.4	3444.1	3424.7
5°	3403.6	3382.5	3401.9	3431.7	3430.0	3424.7	3421.2	3428.2	3451.1	3438.8	3417.7
7.5°	3393.1	3373.7	3387.8	3417.7	3417.7	3414.2	3410.6	3417.7	3438.8	3428.2	3407.1
10°	3375.5	3361.4	3375.5	3403.6	3405.4	3398.3	3394.8	3403.6	3424.7	3419.4	3401.9
12.5°	3361.4	3347.4	3363.2	3391.3	3393.1	3386.0	3380.8	3391.3	3419.4	3423.0	3417.7
15°	3342.1	3329.8	3349.1	3379.0	3379.0	3373.7	3373.7	3387.8	3426.5	3442.3	3451.1
17.5°	3314.0	3305.2	3328.0	3357.9	3359.7	3356.1	3357.9	3386.0	3437.0	3475.7	3500.3
20°	3278.8	3275.3	3299.9	3331.5	3336.8	3338.6	3347.4	3389.6	3459.9	3512.6	3537.2
22.5°	3236.6	3238.4	3266.5	3299.9	3306.9	3312.2	3329.8	3389.6	3477.5	3533.7	3544.3
25°	3189.1	3194.4	3224.3	3264.7	3273.5	3284.1	3314.0	3391.3	3482.7	3519.6	3502.1
27.5°	3138.1	3148.7	3187.4	3229.6	3240.1	3257.7	3296.4	3380.8	3458.1	3459.9	3394.8
30°	3085.4	3097.7	3143.4	3192.6	3210.2	3227.8	3275.3	3356.1	3398.3	3342.1	3227.8
32.5°	3025.6	3043.2	3088.9	3148.7	3169.8	3192.6	3240.1	3308.7	3292.9	3171.6	3008.1
35°	2950.0	2974.6	3027.4	3097.7	3117.1	3146.9	3180.3	3196.2	3125.8	2953.6	2769.0
37.5°	2856.9	2893.8	2955.3	3036.2	3057.3	3076.6	3085.4	3041.5	2900.8	2714.5	2522.8
40°	2749.6	2805.9	2872.7	2962.3	2983.4	2983.4	2951.8	2858.6	2681.1	2436.7	2224.0
42.5°	2619.5	2688.1	2772.5	2862.1	2883.2	2858.6	2783.0	2619.5	2417.3	2144.8	1919.8
45°	2461.3	2552.7	2647.6	2740.8	2751.4	2696.9	2561.5	2354.1	2104.4	1851.2	1636.8
47.5°	2273.2	2392.7	2496.5	2601.9	2587.9	2496.5	2315.4	2079.8	1816.1	1577.0	1404.7
50°	2062.2	2202.9	2318.9	2419.1	2389.2	2262.6	2049.9	1803.8	1541.8	1337.9	1195.5
52.5°	1837.2	1998.9	2115.0	2195.8	2155.4	2004.2	1770.4	1534.8	1320.3	1134.0	1039.0
55°	1603.4	1766.9	1886.4	1949.7	1897.0	1733.5	1503.1	1288.7	1086.5	965.2	908.9
57.5°	1376.6	1529.5	1642.0	1693.0	1626.2	1462.7	1250.0	1068.9	923.0	821.0	792.9
60°	1158.6	1283.4	1390.6	1429.3	1357.2	1206.0	1023.2	879.0	771.8	701.5	687.4
62.5°	956.4	1058.4	1142.7	1172.6	1102.3	984.5	826.3	719.0	643.5	608.3	590.7
65°	789.4	849.1	935.3	930.0	887.8	778.8	662.8	587.2	538.0	515.1	504.6
67.5°	620.6	675.1	729.6	736.6	683.9	608.3	532.7	478.2	451.8	439.5	434.2
70°	480.0	520.4	553.8	545.0	516.9	469.4	421.9	392.0	381.5	376.2	376.2
72.5°	372.7	393.8	409.6	399.1	381.5	356.9	334.0	321.7	323.5	327.0	330.5
75°	288.3	293.6	297.1	286.6	283.0	267.2	265.5	267.2	277.8	288.3	293.6
77.5°	221.5	214.5	209.2	198.7	200.4	198.7	207.5	221.5	237.3	253.2	267.2
80°	170.5	154.7	142.4	131.9	137.1	145.9	163.5	184.6	205.7	223.3	240.9
82.5°	131.9	109.0	91.4	80.9	91.4	105.5	128.3	154.7	179.3	198.7	218.0
85°	102.0	75.6	54.5	44.0	54.5	75.6	100.2	130.1	156.5	177.6	196.9
87.5°	79.1	54.5	29.9	17.6	29.9	52.7	80.9	109.0	135.4	160.0	179.3
90°	63.3	36.9	14.1	3.5	15.8	36.9	63.3	91.4	117.8	144.2	163.5
92.5°	51.0	26.4	7.0	0.0	8.8	28.1	52.7	79.1	105.5	130.1	149.4
95°	42.2	21.1	5.3	0.0	7.0	21.1	42.2	68.6	93.2	117.8	133.6
97.5°	35.2	15.8	3.5	0.0	3.5	17.6	35.2	58.0	82.6	105.5	121.3
100°	29.9	14.1	3.5	0.0	3.5	14.1	29.9	51.0	72.1	93.2	109.0
102.5°	24.6	10.5	1.8	1.8	1.8	10.5	26.4	44.0	63.3	82.6	98.5
105°	22.9	8.8	1.8	1.8	1.8	8.8	22.9	38.7	56.3	73.8	87.9
107.5°	19.3	7.0	1.8	1.8	1.8	7.0	19.3	33.4	51.0	66.8	79.1
110°	15.8	7.0	1.8	1.8	1.8	7.0	15.8	29.9	44.0	58.0	70.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.1	5.3	1.8	1.8	1.8	5.3	14.1	26.4	38.7	52.7	63.3
115°	12.3	5.3	1.8	1.8	1.8	5.3	12.3	22.9	33.4	45.7	56.3
117.5°	10.5	5.3	1.8	1.8	1.8	3.5	10.5	19.3	29.9	40.4	51.0
120°	8.8	3.5	1.8	1.8	1.8	3.5	8.8	17.6	26.4	35.2	44.0
122.5°	8.8	3.5	1.8	1.8	1.8	3.5	7.0	14.1	22.9	29.9	38.7
125°	7.0	3.5	1.8	1.8	1.8	1.8	7.0	12.3	19.3	26.4	33.4
127.5°	7.0	3.5	1.8	1.8	1.8	1.8	5.3	10.5	15.8	22.9	29.9
130°	5.3	3.5	1.8	1.8	1.8	1.8	3.5	8.8	14.1	19.3	24.6
132.5°	5.3	3.5	1.8	1.8	1.8	1.8	3.5	7.0	10.5	15.8	21.1
135°	5.3	1.8	1.8	1.8	1.8	1.8	1.8	5.3	8.8	12.3	15.8
137.5°	3.5	1.8	1.8	1.8	1.8	1.8	1.8	3.5	7.0	8.8	14.1
140°	3.5	1.8	1.8	1.8	1.8	1.8	1.8	3.5	5.3	7.0	10.5
142.5°	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	5.3	8.8
145°	3.5	1.8	1.8	3.5	3.5	1.8	1.8	3.5	3.5	5.3	7.0
147.5°	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	5.3
150°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.3
152.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
155°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3421.2	3380.8	3401.9	3394.8	3401.9	3419.4	3417.7	3412.4	3415.9	3407.1	3398.3
5°	3414.2	3373.7	3394.8	3386.0	3394.8	3412.4	3408.9	3403.6	3408.9	3398.3	3389.6
7.5°	3405.4	3368.5	3393.1	3391.3	3407.1	3430.0	3431.7	3431.7	3444.1	3428.2	3421.2
10°	3405.4	3386.0	3419.4	3431.7	3472.2	3502.1	3505.6	3512.6	3533.7	3530.2	3512.6
12.5°	3442.3	3438.8	3488.0	3517.9	3554.8	3597.0	3619.9	3626.9	3641.0	3630.4	3623.4
15°	3489.8	3507.3	3561.8	3595.2	3635.7	3667.3	3672.6	3676.1	3686.7	3670.8	3658.5
17.5°	3553.1	3563.6	3607.6	3621.6	3648.0	3653.3	3646.2	3628.6	3628.6	3593.5	3582.9
20°	3582.9	3577.7	3595.2	3572.4	3561.8	3530.2	3500.3	3466.9	3465.1	3428.2	3424.7
22.5°	3556.6	3521.4	3484.5	3428.2	3403.6	3357.9	3317.5	3298.1	3285.8	3238.4	3226.1
25°	3463.4	3377.2	3322.7	3255.9	3196.2	3143.4	3104.7	3064.3	3025.6	2987.0	2969.4
27.5°	3301.6	3220.8	3132.9	3039.7	2957.1	2876.2	2811.1	2770.7	2733.8	2682.8	2656.4
30°	3103.0	2990.5	2893.8	2804.1	2668.7	2570.3	2515.8	2434.9	2406.8	2383.9	2334.7
32.5°	2869.2	2733.8	2601.9	2480.6	2341.7	2250.3	2178.2	2118.5	2100.9	2041.1	2027.1
35°	2610.7	2433.2	2283.7	2164.2	2064.0	1953.2	1893.4	1853.0	1817.8	1777.4	1770.4
37.5°	2306.6	2146.6	1977.8	1872.3	1793.2	1698.3	1652.6	1624.5	1608.6	1578.7	1573.5
40°	2000.7	1840.7	1724.7	1619.2	1570.0	1519.0	1485.6	1473.3	1466.2	1455.7	1445.1
42.5°	1722.9	1582.3	1499.6	1429.3	1408.2	1383.6	1374.8	1381.8	1374.8	1371.3	1369.5
45°	1487.3	1380.1	1322.1	1301.0	1295.7	1288.7	1295.7	1308.0	1309.8	1306.2	1306.2
47.5°	1272.8	1221.9	1197.2	1200.8	1209.5	1214.8	1227.1	1243.0	1246.5	1237.7	1241.2
50°	1132.2	1102.3	1097.0	1111.1	1130.4	1137.5	1151.5	1163.8	1162.1	1158.6	1155.0
52.5°	1000.3	991.5	1005.6	1019.7	1040.8	1044.3	1049.6	1054.8	1053.1	1046.0	1042.5
55°	889.6	896.6	908.9	914.2	930.0	928.3	930.0	930.0	923.0	919.5	914.2
57.5°	789.4	791.1	798.2	799.9	808.7	805.2	803.4	799.9	789.4	787.6	782.3
60°	687.4	683.9	699.7	687.4	694.4	687.4	685.6	676.9	666.3	664.5	661.0
62.5°	590.7	583.7	594.2	589.0	592.5	585.4	581.9	571.4	562.6	560.8	559.1
65°	504.6	501.0	511.6	509.8	513.4	504.6	501.0	494.0	487.0	485.2	483.5
67.5°	432.5	441.3	446.5	446.5	450.1	448.3	439.5	437.8	436.0	429.0	429.0
70°	379.7	385.0	395.6	397.3	395.6	399.1	392.0	390.3	388.5	385.0	383.3
72.5°	337.5	344.6	355.1	356.9	355.1	355.1	351.6	349.9	349.9	344.6	344.6
75°	304.1	312.9	321.7	321.7	321.7	318.2	314.7	314.7	311.2	309.4	305.9
77.5°	276.0	286.6	293.6	291.8	290.1	286.6	286.6	281.3	276.0	276.0	272.5
80°	254.9	262.0	267.2	265.5	263.7	258.4	256.7	251.4	247.9	242.6	242.6
82.5°	232.1	240.9	244.4	242.6	239.1	233.8	232.1	228.5	225.0	223.3	219.8
85°	212.7	221.5	223.3	219.8	216.2	212.7	211.0	209.2	207.5	203.9	203.9
87.5°	193.4	202.2	202.2	200.4	196.9	195.1	193.4	191.6	189.9	188.1	186.4
90°	177.6	184.6	184.6	182.8	181.1	179.3	177.6	175.8	174.0	172.3	172.3
92.5°	161.7	168.8	168.8	167.0	165.3	163.5	163.5	161.7	160.0	158.2	156.5
95°	147.7	154.7	154.7	154.7	153.0	151.2	151.2	149.4	147.7	147.7	145.9
97.5°	133.6	140.6	140.6	140.6	138.9	137.1	137.1	135.4	135.4	135.4	133.6
100°	121.3	126.6	128.3	128.3	126.6	126.6	126.6	124.8	124.8	124.8	123.1
102.5°	109.0	114.3	117.8	117.8	117.8	116.0	116.0	116.0	116.0	116.0	114.3
105°	98.5	103.7	107.2	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
107.5°	89.7	94.9	98.5	100.2	102.0	102.0	103.7	103.7	103.7	103.7	103.7
110°	80.9	86.1	91.4	93.2	94.9	96.7	96.7	98.5	96.7	96.7	96.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	72.1	79.1	82.6	86.1	87.9	89.7	91.4	91.4	91.4	91.4	91.4
115°	65.0	72.1	75.6	79.1	82.6	84.4	84.4	86.1	86.1	86.1	84.4
117.5°	58.0	65.0	68.6	72.1	73.8	77.4	79.1	79.1	79.1	79.1	77.4
120°	52.7	58.0	61.5	65.0	68.6	70.3	72.1	72.1	72.1	72.1	72.1
122.5°	45.7	51.0	56.3	59.8	61.5	63.3	65.0	65.0	65.0	65.0	65.0
125°	40.4	45.7	49.2	52.7	54.5	58.0	58.0	58.0	58.0	58.0	58.0
127.5°	35.2	40.4	44.0	47.5	49.2	51.0	52.7	52.7	52.7	52.7	52.7
130°	29.9	35.2	38.7	42.2	44.0	45.7	45.7	47.5	47.5	47.5	47.5
132.5°	26.4	29.9	33.4	36.9	38.7	40.4	40.4	42.2	42.2	42.2	42.2
135°	21.1	26.4	28.1	31.6	33.4	35.2	35.2	36.9	36.9	36.9	36.9
137.5°	17.6	21.1	24.6	28.1	29.9	29.9	31.6	31.6	33.4	33.4	33.4
140°	14.1	15.8	21.1	22.9	24.6	26.4	28.1	28.1	28.1	28.1	28.1
142.5°	10.5	14.1	15.8	19.3	21.1	22.9	24.6	24.6	24.6	24.6	24.6
145°	8.8	10.5	12.3	15.8	17.6	19.3	21.1	21.1	21.1	21.1	21.1
147.5°	7.0	8.8	10.5	12.3	14.1	15.8	17.6	17.6	17.6	17.6	17.6
150°	5.3	7.0	8.8	8.8	10.5	12.3	14.1	15.8	15.8	15.8	15.8
152.5°	5.3	5.3	7.0	7.0	8.8	10.5	12.3	12.3	12.3	12.3	12.3
155°	3.5	5.3	5.3	5.3	7.0	7.0	8.8	10.5	10.5	10.5	10.5
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-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3403.6	3410.6	3407.1	3401.9	3400.1	3408.9	3400.1	3359.7	3375.5	3377.2	3389.6
5°	3398.3	3403.6	3400.1	3396.6	3391.3	3401.9	3391.3	3349.1	3364.9	3366.7	3379.0
7.5°	3433.5	3435.3	3435.3	3426.5	3412.4	3417.7	3403.6	3356.1	3364.9	3364.9	3373.7
10°	3521.4	3524.9	3530.2	3507.3	3489.8	3475.7	3456.4	3398.3	3396.6	3382.5	3382.5
12.5°	3635.7	3626.9	3618.1	3607.6	3593.5	3575.9	3547.8	3479.2	3456.4	3433.5	3410.6
15°	3669.1	3665.6	3663.8	3658.5	3649.7	3644.5	3623.4	3554.8	3521.4	3493.3	3452.8
17.5°	3581.2	3588.2	3611.1	3612.8	3623.4	3644.5	3641.0	3593.5	3563.6	3551.3	3502.1
20°	3423.0	3424.7	3452.8	3465.1	3510.9	3546.0	3572.4	3567.1	3560.1	3574.1	3537.2
22.5°	3233.1	3245.4	3275.3	3294.6	3338.6	3379.0	3421.2	3444.1	3481.0	3539.0	3532.0
25°	2974.6	2990.5	3032.7	3064.3	3125.8	3187.4	3243.6	3284.1	3328.0	3438.8	3475.7
27.5°	2665.2	2689.8	2744.3	2776.0	2862.1	2925.4	3006.3	3085.4	3146.9	3273.5	3349.1
30°	2340.0	2361.1	2419.1	2463.1	2536.9	2623.0	2725.0	2837.5	2939.5	3067.8	3162.8
32.5°	2035.8	2058.7	2106.2	2144.8	2227.5	2299.6	2412.1	2551.0	2645.9	2823.5	2950.0
35°	1770.4	1791.5	1824.9	1858.3	1926.8	2000.7	2097.4	2232.7	2354.1	2538.6	2698.6
37.5°	1584.0	1587.5	1606.9	1626.2	1677.2	1733.5	1809.1	1928.6	2041.1	2239.8	2415.6
40°	1450.4	1450.4	1461.0	1466.2	1489.1	1522.5	1570.0	1663.1	1756.3	1907.5	2122.0
42.5°	1367.8	1364.3	1364.3	1366.0	1364.3	1380.1	1408.2	1452.2	1534.8	1659.6	1826.6
45°	1306.2	1299.2	1293.9	1281.6	1274.6	1274.6	1276.4	1292.2	1339.6	1420.5	1555.9
47.5°	1237.7	1235.9	1227.1	1213.1	1200.8	1192.0	1177.9	1172.6	1186.7	1232.4	1323.8
50°	1158.6	1149.8	1141.0	1130.4	1116.4	1107.6	1081.2	1083.0	1070.7	1091.8	1139.2
52.5°	1042.5	1035.5	1032.0	1023.2	1017.9	1014.4	993.3	972.2	966.9	970.5	988.0
55°	914.2	917.7	903.6	910.7	908.9	893.1	884.3	868.5	863.2	861.5	870.2
57.5°	780.6	784.1	775.3	782.3	782.3	773.5	768.3	768.3	756.0	745.4	757.7
60°	659.3	652.2	657.5	666.3	666.3	661.0	657.5	657.5	648.7	645.2	654.0
62.5°	560.8	553.8	559.1	567.9	569.6	566.1	562.6	562.6	552.0	552.0	559.1
65°	485.2	487.0	485.2	492.3	492.3	494.0	490.5	487.0	474.7	480.0	478.2
67.5°	430.7	429.0	429.0	436.0	434.2	437.8	434.2	429.0	420.2	413.1	411.4
70°	385.0	383.3	383.3	386.8	388.5	388.5	386.8	383.3	371.0	363.9	358.6
72.5°	344.6	342.8	344.6	346.3	348.1	349.9	348.1	344.6	334.0	325.2	316.5
75°	307.7	305.9	311.2	311.2	312.9	312.9	314.7	312.9	304.1	293.6	283.0
77.5°	270.7	272.5	277.8	279.5	283.0	284.8	286.6	286.6	277.8	269.0	254.9
80°	240.9	244.4	247.9	249.6	253.2	258.4	260.2	262.0	254.9	246.1	230.3
82.5°	219.8	221.5	225.0	226.8	232.1	233.8	235.6	239.1	235.6	226.8	209.2
85°	202.2	203.9	207.5	207.5	211.0	214.5	216.2	218.0	216.2	207.5	189.9
87.5°	186.4	188.1	189.9	191.6	193.4	195.1	196.9	198.7	196.9	188.1	172.3
90°	172.3	172.3	174.0	174.0	175.8	177.6	181.1	181.1	179.3	172.3	156.5
92.5°	156.5	158.2	158.2	160.0	161.7	163.5	165.3	165.3	163.5	156.5	142.4
95°	145.9	145.9	147.7	147.7	149.4	149.4	151.2	151.2	149.4	142.4	128.3
97.5°	133.6	133.6	133.6	133.6	135.4	135.4	137.1	137.1	135.4	128.3	116.0
100°	123.1	123.1	123.1	123.1	123.1	124.8	124.8	124.8	123.1	116.0	103.7
102.5°	114.3	114.3	114.3	114.3	114.3	114.3	114.3	114.3	110.8	105.5	93.2
105°	109.0	109.0	109.0	107.2	107.2	107.2	105.5	105.5	100.2	94.9	84.4
107.5°	102.0	102.0	102.0	100.2	100.2	98.5	96.7	96.7	91.4	86.1	75.6
110°	96.7	96.7	96.7	94.9	93.2	91.4	89.7	87.9	82.6	75.6	66.8





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	91.4	91.4	89.7	89.7	87.9	86.1	82.6	80.9	75.6	68.6	59.8
115°	84.4	84.4	84.4	82.6	80.9	79.1	77.4	73.8	68.6	61.5	52.7
117.5°	77.4	77.4	77.4	75.6	73.8	72.1	70.3	66.8	61.5	54.5	47.5
120°	70.3	70.3	70.3	68.6	66.8	65.0	63.3	59.8	54.5	49.2	40.4
122.5°	65.0	65.0	63.3	61.5	59.8	58.0	56.3	52.7	49.2	42.2	35.2
125°	58.0	58.0	56.3	56.3	54.5	52.7	51.0	47.5	42.2	36.9	31.6
127.5°	52.7	51.0	51.0	51.0	49.2	47.5	44.0	42.2	36.9	31.6	26.4
130°	45.7	45.7	45.7	44.0	44.0	42.2	38.7	35.2	31.6	28.1	22.9
132.5°	40.4	40.4	40.4	40.4	38.7	36.9	33.4	31.6	28.1	22.9	19.3
135°	36.9	36.9	35.2	35.2	33.4	31.6	29.9	26.4	22.9	19.3	15.8
137.5°	31.6	31.6	31.6	29.9	29.9	28.1	24.6	22.9	21.1	17.6	14.1
140°	28.1	28.1	26.4	26.4	24.6	24.6	22.9	19.3	17.6	14.1	12.3
142.5°	24.6	24.6	22.9	22.9	21.1	21.1	19.3	17.6	14.1	12.3	8.8
145°	21.1	21.1	19.3	19.3	19.3	17.6	15.8	14.1	12.3	10.5	8.8
147.5°	17.6	17.6	17.6	15.8	15.8	14.1	14.1	12.3	10.5	8.8	7.0
150°	15.8	15.8	14.1	14.1	14.1	12.3	10.5	10.5	8.8	7.0	5.3
152.5°	12.3	12.3	12.3	12.3	10.5	10.5	8.8	8.8	7.0	5.3	5.3
155°	10.5	10.5	10.5	8.8	8.8	8.8	7.0	7.0	5.3	5.3	3.5
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-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6	3403.6
2.5°	3384.3	3382.5	3398.3	3396.6	3375.5	3407.1	3428.2
5°	3375.5	3373.7	3387.8	3391.3	3368.5	3401.9	3424.7
7.5°	3368.5	3366.7	3382.5	3387.8	3364.9	3394.8	3419.4
10°	3370.2	3361.4	3375.5	3379.0	3357.9	3389.6	3410.6
12.5°	3382.5	3361.4	3366.7	3366.7	3347.4	3375.5	3398.3
15°	3412.4	3368.5	3361.4	3356.1	3331.5	3357.9	3380.8
17.5°	3445.8	3386.0	3361.4	3343.8	3314.0	3336.8	3361.4
20°	3479.2	3405.4	3364.9	3336.8	3296.4	3317.5	3335.1
22.5°	3495.0	3423.0	3368.5	3326.3	3275.3	3285.8	3305.2
25°	3473.9	3415.9	3361.4	3310.4	3248.9	3250.7	3266.5
27.5°	3396.6	3380.8	3345.6	3294.6	3227.8	3219.0	3231.3
30°	3264.7	3308.7	3310.4	3273.5	3203.2	3185.6	3190.9
32.5°	3080.1	3178.6	3236.6	3229.6	3168.0	3143.4	3146.9
35°	2867.4	2990.5	3117.1	3159.2	3115.3	3096.0	3088.9
37.5°	2612.5	2777.7	2946.5	3050.2	3043.2	3030.9	3023.9
40°	2331.2	2529.9	2730.3	2895.5	2946.5	2946.5	2950.0
42.5°	2030.6	2262.6	2482.4	2691.6	2811.1	2837.5	2848.1
45°	1740.5	1974.3	2213.4	2454.3	2614.2	2696.9	2726.8
47.5°	1476.8	1712.4	1939.1	2202.9	2415.6	2522.8	2570.3
50°	1251.7	1427.6	1666.6	1928.6	2160.7	2292.5	2385.7
52.5°	1065.4	1202.5	1411.7	1656.1	1889.9	2071.0	2157.1
55°	908.9	1002.1	1179.7	1390.6	1613.9	1802.0	1902.2
57.5°	777.1	850.9	972.2	1148.0	1336.1	1522.5	1629.7
60°	661.0	712.0	794.6	933.5	1093.5	1253.5	1357.2
62.5°	560.8	594.2	648.7	750.7	875.5	1000.3	1097.0
65°	483.5	497.5	527.4	590.7	685.6	780.6	863.2
67.5°	407.9	416.7	439.5	478.2	525.7	594.2	648.7
70°	351.6	351.6	353.4	376.2	400.8	444.8	483.5
72.5°	305.9	300.6	290.1	295.4	300.6	325.2	349.9
75°	269.0	256.7	239.1	232.1	228.5	232.1	246.1
77.5°	237.3	219.8	198.7	181.1	167.0	161.7	174.0
80°	211.0	189.9	165.3	142.4	119.5	107.2	112.5
82.5°	189.9	163.5	137.1	110.8	84.4	66.8	66.8
85°	167.0	142.4	114.3	86.1	59.8	36.9	33.4
87.5°	151.2	124.8	94.9	68.6	42.2	19.3	10.5
90°	135.4	109.0	80.9	54.5	29.9	8.8	0.0
92.5°	121.3	96.7	70.3	44.0	21.1	5.3	0.0
95°	109.0	86.1	59.8	36.9	17.6	3.5	1.8
97.5°	96.7	75.6	52.7	29.9	12.3	3.5	1.8
100°	87.9	66.8	45.7	24.6	10.5	1.8	1.8
102.5°	77.4	59.8	38.7	21.1	8.8	1.8	1.8
105°	68.6	52.7	33.4	17.6	7.0	1.8	1.8
107.5°	61.5	45.7	29.9	15.8	7.0	1.8	1.8
110°	54.5	40.4	26.4	14.1	5.3	1.8	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	49.2	35.2	22.9	12.3	3.5	1.8	1.8
115°	42.2	31.6	19.3	10.5	3.5	1.8	1.8
117.5°	36.9	26.4	17.6	8.8	3.5	1.8	1.8
120°	31.6	22.9	14.1	7.0	1.8	1.8	1.8
122.5°	28.1	19.3	12.3	7.0	1.8	1.8	1.8
125°	24.6	17.6	10.5	5.3	1.8	1.8	1.8
127.5°	21.1	14.1	8.8	3.5	1.8	1.8	1.8
130°	17.6	12.3	7.0	3.5	1.8	1.8	1.8
132.5°	14.1	10.5	7.0	3.5	1.8	1.8	1.8
135°	12.3	8.8	5.3	3.5	1.8	1.8	1.8
137.5°	10.5	7.0	3.5	3.5	3.5	1.8	1.8
140°	8.8	5.3	3.5	3.5	3.5	3.5	1.8
142.5°	7.0	5.3	3.5	3.5	3.5	3.5	1.8
145°	5.3	3.5	3.5	3.5	3.5	3.5	1.8
147.5°	5.3	3.5	3.5	3.5	3.5	3.5	1.8
150°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
152.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
155°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)