

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-LD5-98SL-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-LD5-98SL-LN-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

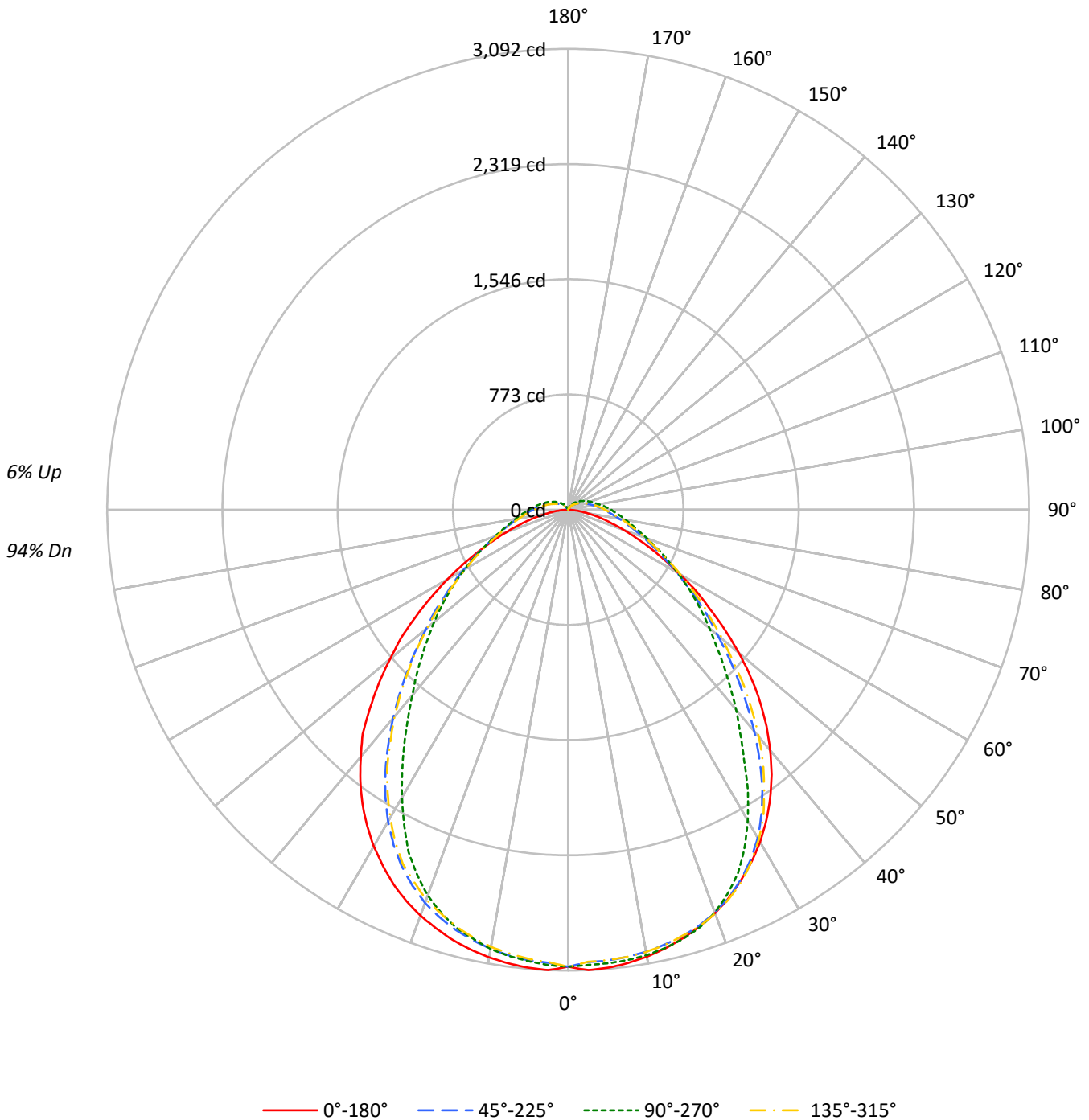
Lumens per Lamp: N/A  
Luminaire Lumens: 7761.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 75  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#  
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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

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

	0°	90°	180°	270°
0°	12391	12391	12391	12391
5°	12497	11997	12497	11944
10°	12458	11678	12478	11516
15°	12395	11329	12451	11034
20°	12318	10880	12390	10421
25°	12140	10214	12274	9613
30°	11902	9237	12059	8551
35°	11523	8038	11745	7485
40°	10969	7030	11259	6522
45°	10231	6111	10563	5761
50°	9213	5370	9619	5099
55°	7997	4742	8578	4502
60°	6756	4164	7366	3924
65°	5571	3681	6132	3413
70°	4471	3267	5007	3022
75°	3558	3016	4006	2775
80°	2631	2910	3101	2659
85°	1727	2927	2321	2690



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.7	3.7
10°-20°	833.7	10.7
20°-30°	1235.6	15.9
30°-40°	1372.7	17.7
40°-50°	1244.3	16.0
50°-60°	964.2	12.4
60°-70°	654.8	8.4
70°-80°	416.6	5.4
80°-90°	266.3	3.4
90°-100°	179.6	2.3
100°-110°	123.0	1.6
110°-120°	82.0	1.1
120°-130°	51.0	0.7
130°-140°	28.2	0.4
140°-150°	13.3	0.2
150°-160°	4.9	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2360.0	30.4
0°-40°	3732.6	48.1
0°-60°	5941.1	76.6
0°-90°	7278.8	93.8
90°-120°	384.6	5.0
90°-150°	477.1	6.1
90°-180°	482.0	6.2
0°-180°	7761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3067	3067	3067	3067	3067	
5°	3085	3055	3085	3041	3085	293
15°	2976	2981	2989	2903	2976	840
25°	2743	2692	2773	2534	2743	1263
35°	2362	2058	2407	1916	2362	1473
45°	1818	1471	1878	1387	1818	1397
55°	1161	1034	1245	982	1161	1045
65°	602	695	663	644	602	604
75°	241	464	272	427	241	260
85°	44	334	59	307	44	53
90°	0	288	3	263	0	3
95°	2	246	0	229	2	1
105°	2	180	0	170	2	2
115°	2	137	0	126	2	2
125°	2	101	2	89	2	2
135°	2	71	2	57	2	1
145°	2	46	2	32	2	1
155°	2	25	2	12	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-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3092.0	3088.6	3085.3	3080.2	3085.3	3098.7	3090.3	3071.8	3068.4	3038.0	3051.5
5°	3085.3	3080.2	3076.8	3071.8	3078.5	3095.4	3086.9	3070.1	3065.0	3036.3	3051.5
7.5°	3068.4	3065.0	3059.9	3059.9	3066.7	3083.6	3076.8	3058.3	3054.9	3026.2	3043.1
10°	3044.8	3043.1	3039.7	3039.7	3046.5	3066.7	3058.3	3041.4	3038.0	3011.0	3029.6
12.5°	3014.4	3016.1	3011.0	3011.0	3021.2	3041.4	3034.6	3016.1	3012.7	2989.1	3007.7
15°	2975.6	2977.3	2973.9	2975.6	2985.7	3009.3	3000.9	2984.0	2980.7	2962.1	2977.3
17.5°	2931.7	2933.4	2933.4	2931.7	2943.6	2967.2	2960.4	2945.2	2940.2	2925.0	2943.6
20°	2881.1	2881.1	2881.1	2881.1	2894.6	2918.3	2909.8	2898.0	2887.9	2876.1	2891.3
22.5°	2818.7	2817.0	2818.7	2823.8	2837.3	2855.8	2850.8	2837.3	2822.1	2815.4	2827.2
25°	2742.8	2747.9	2749.6	2754.6	2771.5	2786.7	2781.6	2768.1	2744.5	2739.4	2742.8
27.5°	2663.5	2666.9	2672.0	2670.3	2693.9	2709.1	2699.0	2687.2	2653.4	2648.4	2645.0
30°	2574.1	2579.2	2582.6	2580.9	2599.4	2616.3	2606.2	2591.0	2545.5	2542.1	2515.1
32.5°	2472.9	2478.0	2481.4	2481.4	2508.3	2515.1	2496.5	2474.6	2425.7	2413.9	2390.3
35°	2361.6	2366.7	2368.3	2368.3	2395.3	2393.6	2370.0	2339.7	2285.7	2270.5	2230.0
37.5°	2241.8	2245.2	2246.9	2257.0	2268.8	2258.7	2228.3	2189.5	2149.0	2106.9	2063.0
40°	2106.9	2111.9	2115.3	2122.1	2133.9	2122.1	2078.2	2031.0	1987.1	1939.9	1896.0
42.5°	1968.6	1983.7	1980.4	1978.7	1985.4	1953.4	1919.6	1865.7	1821.8	1772.9	1729.0
45°	1818.4	1816.7	1825.2	1828.5	1826.9	1799.9	1752.6	1703.7	1659.9	1609.3	1572.1
47.5°	1659.9	1658.2	1664.9	1668.3	1658.2	1629.5	1592.4	1536.7	1499.6	1455.8	1427.1
50°	1492.9	1492.9	1503.0	1492.9	1487.8	1459.1	1428.8	1373.1	1344.4	1305.6	1288.8
52.5°	1325.9	1341.0	1330.9	1327.6	1322.5	1293.8	1270.2	1224.7	1201.0	1184.2	1163.9
55°	1160.6	1177.4	1170.7	1165.6	1163.9	1140.3	1118.4	1084.6	1069.5	1057.7	1045.8
57.5°	1020.5	1018.9	1015.5	1010.4	1012.1	993.6	971.6	953.1	946.3	941.3	944.6
60°	858.6	872.1	867.0	868.7	870.4	867.0	848.5	836.7	838.4	840.1	845.1
62.5°	725.3	737.2	745.6	738.8	742.2	747.3	737.2	733.8	740.5	747.3	754.0
65°	602.2	614.0	622.4	620.8	630.9	641.0	639.3	642.7	657.9	666.3	674.7
67.5°	490.9	502.7	514.5	516.2	531.4	546.5	553.3	565.1	582.0	593.8	603.9
70°	394.7	404.8	418.3	426.8	447.0	467.3	479.1	502.7	512.8	529.7	536.4
72.5°	308.7	317.1	335.7	355.9	372.8	398.1	421.7	442.0	457.1	475.7	484.1
75°	241.2	244.6	264.8	288.5	312.1	340.7	366.0	388.0	408.2	426.8	440.3
77.5°	177.1	182.2	200.7	232.8	259.8	290.1	318.8	342.4	364.4	382.9	401.5
80°	123.1	133.3	153.5	185.6	215.9	249.7	276.6	303.6	327.2	345.8	364.4
82.5°	79.3	87.7	116.4	148.4	180.5	214.2	242.9	269.9	295.2	315.4	332.3
85°	43.9	55.7	84.3	118.1	150.1	183.9	214.2	241.2	266.5	285.1	301.9
87.5°	16.9	33.7	60.7	92.8	124.8	156.9	188.9	214.2	239.5	259.8	275.0
90°	0.0	20.2	45.5	77.6	109.6	141.7	172.1	199.0	222.7	241.2	258.1
92.5°	1.7	13.5	35.4	62.4	92.8	123.1	151.8	178.8	202.4	221.0	236.2
95°	1.7	10.1	28.7	54.0	81.0	109.6	136.6	161.9	183.9	202.4	217.6
97.5°	1.7	6.7	23.6	47.2	70.8	99.5	124.8	148.4	168.7	187.2	199.0
100°	1.7	6.7	20.2	40.5	64.1	89.4	113.0	136.6	155.2	170.4	183.9
102.5°	1.7	5.1	16.9	35.4	57.4	79.3	102.9	124.8	141.7	156.9	170.4
105°	1.7	5.1	15.2	30.4	50.6	72.5	92.8	113.0	131.6	145.1	156.9
107.5°	1.7	3.4	13.5	25.3	43.9	65.8	86.0	102.9	119.8	133.3	145.1
110°	1.7	3.4	11.8	23.6	38.8	59.0	77.6	94.5	109.6	123.1	133.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	3.4	10.1	21.9	35.4	52.3	70.8	86.0	101.2	113.0	123.1
115°	1.7	3.4	10.1	20.2	32.1	45.5	62.4	79.3	91.1	104.6	113.0
117.5°	1.7	3.4	8.4	16.9	30.4	42.2	57.4	70.8	84.3	96.2	104.6
120°	1.7	3.4	8.4	15.2	27.0	38.8	50.6	64.1	77.6	86.0	94.5
122.5°	1.7	3.4	6.7	15.2	23.6	35.4	45.5	57.4	69.2	79.3	87.7
125°	1.7	3.4	6.7	13.5	21.9	32.1	42.2	50.6	62.4	70.8	79.3
127.5°	1.7	3.4	6.7	11.8	20.2	28.7	38.8	47.2	55.7	64.1	70.8
130°	1.7	3.4	5.1	10.1	18.6	25.3	33.7	43.9	50.6	57.4	64.1
132.5°	1.7	3.4	5.1	10.1	15.2	21.9	30.4	38.8	45.5	52.3	57.4
135°	1.7	3.4	5.1	8.4	13.5	20.2	25.3	33.7	40.5	47.2	52.3
137.5°	1.7	3.4	5.1	8.4	11.8	16.9	21.9	28.7	35.4	40.5	47.2
140°	1.7	3.4	5.1	6.7	10.1	15.2	20.2	23.6	30.4	35.4	40.5
142.5°	1.7	3.4	5.1	6.7	10.1	13.5	16.9	20.2	25.3	30.4	35.4
145°	1.7	3.4	5.1	6.7	8.4	11.8	15.2	18.6	20.2	25.3	28.7
147.5°	1.7	3.4	5.1	6.7	6.7	10.1	13.5	15.2	18.6	20.2	23.6
150°	1.7	3.4	5.1	5.1	6.7	8.4	11.8	13.5	15.2	18.6	20.2
152.5°	1.7	3.4	5.1	5.1	6.7	8.4	10.1	11.8	13.5	15.2	16.9
155°	1.7	3.4	5.1	5.1	5.1	6.7	8.4	10.1	11.8	13.5	15.2
157.5°	3.4	3.4	3.4	5.1	5.1	6.7	6.7	8.4	10.1	10.1	11.8
160°	3.4	3.4	3.4	5.1	5.1	5.1	6.7	6.7	8.4	8.4	10.1
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°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3048.1	3053.2	3068.4	3068.4	3065.0	3061.6	3061.6	3056.6	3059.9	3066.7	3063.3
5°	3048.1	3053.2	3068.4	3068.4	3065.0	3061.6	3059.9	3054.9	3059.9	3066.7	3063.3
7.5°	3038.0	3044.8	3059.9	3059.9	3056.6	3054.9	3051.5	3048.1	3053.2	3059.9	3056.6
10°	3024.5	3031.3	3046.5	3046.5	3043.1	3043.1	3038.0	3034.6	3041.4	3046.5	3044.8
12.5°	3004.3	3012.7	3026.2	3024.5	3021.2	3022.8	3017.8	3011.0	3017.8	3022.8	3024.5
15°	2975.6	2985.7	2999.2	2995.8	2990.8	2994.2	2985.7	2980.7	2985.7	2995.8	2994.2
17.5°	2938.5	2945.2	2955.4	2955.4	2950.3	2946.9	2943.6	2938.5	2941.9	2948.6	2950.3
20°	2886.2	2894.6	2899.7	2894.6	2892.9	2887.9	2881.1	2876.1	2882.8	2892.9	2894.6
22.5°	2817.0	2818.7	2830.5	2818.7	2810.3	2808.6	2801.9	2791.7	2801.9	2810.3	2812.0
25°	2731.0	2739.4	2734.4	2714.1	2714.1	2700.6	2697.3	2692.2	2693.9	2709.1	2715.8
27.5°	2621.4	2624.7	2611.2	2594.4	2579.2	2570.8	2559.0	2560.6	2560.6	2580.9	2587.6
30°	2501.6	2483.0	2471.2	2444.2	2432.4	2412.2	2408.8	2408.8	2405.4	2415.6	2445.9
32.5°	2358.2	2332.9	2314.4	2289.1	2268.8	2248.6	2238.5	2243.5	2241.8	2267.1	2277.2
35°	2201.3	2186.2	2147.4	2115.3	2103.5	2073.1	2073.1	2058.0	2068.1	2096.8	2108.6
37.5°	2036.0	2012.4	1980.4	1944.9	1936.5	1912.9	1904.5	1896.0	1917.9	1923.0	1934.8
40°	1867.3	1845.4	1815.1	1781.3	1781.3	1752.6	1752.6	1752.6	1754.3	1764.4	1786.4
42.5°	1707.1	1683.5	1656.5	1632.9	1629.5	1607.6	1607.6	1605.9	1609.3	1617.7	1637.9
45°	1551.9	1533.3	1504.7	1492.9	1494.6	1470.9	1476.0	1470.9	1477.7	1486.1	1492.9
47.5°	1408.5	1396.7	1384.9	1368.0	1363.0	1361.3	1352.9	1346.1	1357.9	1357.9	1368.0
50°	1275.3	1268.5	1261.8	1251.6	1253.3	1246.6	1236.5	1236.5	1244.9	1246.6	1253.3
52.5°	1158.9	1150.4	1142.0	1143.7	1145.4	1142.0	1136.9	1131.9	1136.9	1140.3	1148.7
55°	1042.5	1035.7	1044.2	1040.8	1044.2	1040.8	1037.4	1034.0	1042.5	1037.4	1045.8
57.5°	937.9	944.6	948.0	941.3	946.3	942.9	944.6	939.6	946.3	949.7	948.0
60°	841.7	851.9	846.8	848.5	855.2	851.9	845.1	850.2	856.9	858.6	856.9
62.5°	754.0	765.8	770.9	767.5	769.2	765.8	770.9	764.1	772.6	776.0	770.9
65°	674.7	688.2	691.6	691.6	691.6	688.2	693.3	695.0	698.4	698.4	695.0
67.5°	607.3	619.1	622.4	625.8	622.4	619.1	619.1	620.8	627.5	630.9	627.5
70°	546.5	558.3	560.0	560.0	561.7	565.1	558.3	561.7	566.8	568.5	566.8
72.5°	494.2	506.1	509.4	507.7	509.4	511.1	511.1	507.7	512.8	516.2	516.2
75°	452.1	458.8	462.2	462.2	463.9	465.6	465.6	463.9	467.3	468.9	470.6
77.5°	413.3	418.3	423.4	423.4	425.1	423.4	426.8	426.8	428.5	430.1	431.8
80°	374.5	381.2	384.6	386.3	389.7	391.3	391.3	391.3	393.0	394.7	394.7
82.5°	344.1	349.2	354.2	359.3	359.3	361.0	361.0	361.0	362.7	362.7	364.4
85°	313.8	320.5	325.6	328.9	330.6	332.3	332.3	334.0	334.0	334.0	335.7
87.5°	286.8	295.2	298.6	301.9	303.6	307.0	307.0	307.0	308.7	308.7	308.7
90°	268.2	276.6	280.0	283.4	285.1	286.8	286.8	288.5	288.5	290.1	290.1
92.5°	246.3	254.7	261.5	261.5	263.1	266.5	264.8	264.8	266.5	268.2	268.2
95°	229.4	236.2	241.2	242.9	244.6	244.6	244.6	246.3	244.6	246.3	246.3
97.5°	209.2	215.9	221.0	224.4	226.0	226.0	226.0	227.7	226.0	227.7	227.7
100°	192.3	199.0	204.1	205.8	209.2	209.2	209.2	209.2	209.2	209.2	210.9
102.5°	178.8	185.6	188.9	190.6	192.3	194.0	194.0	194.0	194.0	195.7	195.7
105°	165.3	172.1	175.4	177.1	178.8	180.5	180.5	180.5	182.2	182.2	180.5
107.5°	153.5	158.6	161.9	165.3	167.0	167.0	168.7	168.7	168.7	168.7	168.7
110°	141.7	146.8	151.8	155.2	155.2	156.9	156.9	158.6	158.6	156.9	158.6





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	129.9	136.6	140.0	143.4	145.1	146.8	146.8	146.8	146.8	146.8	146.8
115°	119.8	126.5	129.9	133.3	134.9	136.6	136.6	136.6	136.6	136.6	136.6
117.5°	111.3	118.1	121.5	123.1	124.8	126.5	128.2	128.2	128.2	128.2	126.5
120°	102.9	108.0	111.3	114.7	116.4	118.1	118.1	118.1	118.1	118.1	118.1
122.5°	94.5	99.5	102.9	106.3	108.0	109.6	109.6	109.6	109.6	109.6	109.6
125°	86.0	91.1	94.5	97.8	99.5	101.2	101.2	101.2	101.2	101.2	101.2
127.5°	77.6	82.7	87.7	89.4	91.1	92.8	92.8	92.8	94.5	92.8	92.8
130°	69.2	74.2	79.3	81.0	82.7	84.3	86.0	86.0	86.0	86.0	84.3
132.5°	62.4	67.5	70.8	72.5	75.9	75.9	77.6	77.6	77.6	77.6	75.9
135°	57.4	60.7	64.1	65.8	69.2	69.2	69.2	70.8	70.8	69.2	67.5
137.5°	50.6	54.0	57.4	59.0	60.7	62.4	62.4	64.1	62.4	62.4	62.4
140°	47.2	48.9	52.3	54.0	55.7	55.7	55.7	57.4	57.4	55.7	55.7
142.5°	40.5	43.9	47.2	48.9	50.6	50.6	50.6	50.6	50.6	50.6	50.6
145°	33.7	38.8	40.5	43.9	43.9	45.5	45.5	45.5	45.5	45.5	43.9
147.5°	28.7	32.1	37.1	38.8	38.8	40.5	40.5	40.5	40.5	40.5	38.8
150°	21.9	25.3	30.4	33.7	33.7	35.4	35.4	35.4	35.4	33.7	33.7
152.5°	18.6	21.9	23.6	27.0	28.7	28.7	28.7	30.4	28.7	28.7	28.7
155°	16.9	18.6	20.2	21.9	23.6	25.3	25.3	25.3	25.3	23.6	23.6
157.5°	13.5	15.2	16.9	18.6	20.2	21.9	21.9	21.9	21.9	21.9	20.2
160°	10.1	11.8	13.5	13.5	15.2	16.9	18.6	16.9	16.9	16.9	16.9
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-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3059.9	3058.3	3063.3	3054.9	3029.6	3036.3	3033.0	3048.1	3051.5	3054.9	3070.1
5°	3059.9	3058.3	3061.6	3054.9	3027.9	3033.0	3029.6	3044.8	3048.1	3049.8	3065.0
7.5°	3053.2	3051.5	3056.6	3048.1	3019.5	3026.2	3021.2	3036.3	3038.0	3039.7	3053.2
10°	3039.7	3038.0	3041.4	3034.6	3006.0	3012.7	3006.0	3021.2	3021.2	3024.5	3034.6
12.5°	3019.5	3016.1	3022.8	3014.4	2982.4	2990.8	2987.4	2997.5	2999.2	3000.9	3011.0
15°	2990.8	2987.4	2992.5	2987.4	2958.7	2960.4	2955.4	2970.5	2972.2	2968.9	2979.0
17.5°	2948.6	2945.2	2955.4	2952.0	2923.3	2930.1	2928.4	2931.7	2936.8	2928.4	2941.9
20°	2896.3	2899.7	2903.1	2904.8	2882.8	2882.8	2881.1	2887.9	2892.9	2886.2	2896.3
22.5°	2818.7	2827.2	2837.3	2840.7	2825.5	2823.8	2833.9	2830.5	2835.6	2832.2	2839.0
25°	2720.9	2737.8	2747.9	2758.0	2749.6	2752.9	2768.1	2771.5	2771.5	2769.8	2776.6
27.5°	2599.4	2621.4	2639.9	2661.9	2653.4	2660.2	2685.5	2688.8	2695.6	2688.8	2702.3
30°	2454.4	2474.6	2510.0	2542.1	2545.5	2555.6	2591.0	2594.4	2612.9	2606.2	2611.2
32.5°	2309.3	2319.4	2359.9	2392.0	2412.2	2437.5	2476.3	2483.0	2508.3	2513.4	2513.4
35°	2127.1	2155.8	2192.9	2238.5	2263.8	2290.7	2343.0	2353.2	2390.3	2402.1	2415.6
37.5°	1973.6	2000.6	2024.2	2071.5	2117.0	2147.4	2189.5	2214.8	2253.6	2275.6	2292.4
40°	1810.0	1831.9	1857.2	1904.5	1943.3	1988.8	2031.0	2061.3	2110.3	2135.6	2157.5
42.5°	1654.8	1671.7	1698.7	1732.4	1772.9	1823.5	1864.0	1899.4	1951.7	1987.1	2012.4
45°	1516.5	1526.6	1550.2	1575.5	1610.9	1663.2	1702.0	1747.6	1789.7	1826.9	1857.2
47.5°	1386.6	1400.1	1411.9	1428.8	1460.8	1492.9	1538.4	1582.3	1624.4	1664.9	1695.3
50°	1266.8	1266.8	1285.4	1297.2	1319.1	1347.8	1383.2	1413.6	1465.9	1494.6	1533.3
52.5°	1150.4	1157.2	1167.3	1174.0	1190.9	1209.5	1238.1	1263.5	1307.3	1334.3	1371.4
55°	1047.5	1054.3	1059.3	1062.7	1072.8	1094.8	1104.9	1125.1	1155.5	1177.4	1209.5
57.5°	949.7	953.1	958.1	959.8	961.5	975.0	983.4	988.5	1018.9	1040.8	1067.8
60°	860.3	860.3	865.4	863.7	862.0	868.7	867.0	872.1	890.7	904.2	916.0
62.5°	776.0	776.0	777.6	774.3	772.6	772.6	765.8	770.9	776.0	777.6	786.1
65°	698.4	706.8	700.0	701.7	691.6	688.2	684.9	674.7	673.1	666.3	669.7
67.5°	629.2	635.9	629.2	629.2	620.8	614.0	605.6	588.7	583.7	570.2	566.8
70°	573.5	568.5	571.8	566.8	556.7	548.2	536.4	522.9	506.1	489.2	477.4
72.5°	519.6	519.6	516.2	511.1	506.1	489.2	475.7	460.5	440.3	418.3	401.5
75°	467.3	468.9	468.9	463.9	455.4	440.3	425.1	403.2	381.2	355.9	334.0
77.5°	430.1	430.1	430.1	421.7	413.3	399.8	381.2	357.6	334.0	303.6	278.3
80°	394.7	393.0	393.0	382.9	374.5	359.3	340.7	317.1	291.8	259.8	231.1
82.5°	366.0	364.4	361.0	352.6	340.7	325.6	307.0	281.7	254.7	226.0	190.6
85°	335.7	334.0	330.6	322.2	310.4	296.9	276.6	251.3	224.4	192.3	158.6
87.5°	308.7	307.0	301.9	296.9	283.4	268.2	248.0	224.4	195.7	165.3	131.6
90°	290.1	286.8	283.4	276.6	264.8	248.0	227.7	202.4	173.7	143.4	109.6
92.5°	268.2	266.5	261.5	254.7	244.6	227.7	207.5	183.9	155.2	126.5	94.5
95°	246.3	244.6	241.2	234.5	224.4	209.2	190.6	167.0	140.0	111.3	82.7
97.5°	226.0	226.0	221.0	215.9	204.1	192.3	173.7	151.8	126.5	101.2	74.2
100°	209.2	209.2	204.1	197.4	188.9	177.1	158.6	138.3	114.7	91.1	64.1
102.5°	194.0	192.3	188.9	182.2	173.7	161.9	145.1	126.5	104.6	81.0	57.4
105°	180.5	178.8	175.4	168.7	161.9	148.4	134.9	116.4	94.5	72.5	50.6
107.5°	167.0	165.3	163.6	156.9	148.4	136.6	123.1	104.6	86.0	65.8	45.5
110°	155.2	153.5	150.1	143.4	134.9	124.8	111.3	96.2	77.6	59.0	40.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.1	143.4	140.0	133.3	126.5	114.7	102.9	86.0	70.8	54.0	35.4
115°	134.9	133.3	129.9	123.1	114.7	104.6	92.8	79.3	62.4	47.2	32.1
117.5°	124.8	123.1	119.8	114.7	106.3	96.2	84.3	70.8	55.7	43.9	28.7
120°	116.4	113.0	109.6	104.6	96.2	87.7	75.9	64.1	50.6	38.8	25.3
122.5°	108.0	104.6	101.2	96.2	87.7	79.3	67.5	57.4	47.2	35.4	23.6
125°	97.8	96.2	92.8	87.7	79.3	70.8	62.4	52.3	42.2	32.1	20.2
127.5°	89.4	87.7	84.3	77.6	70.8	64.1	55.7	47.2	37.1	27.0	18.6
130°	82.7	79.3	75.9	70.8	65.8	59.0	50.6	42.2	33.7	23.6	16.9
132.5°	74.2	70.8	67.5	64.1	59.0	52.3	45.5	37.1	30.4	21.9	15.2
135°	67.5	64.1	60.7	57.4	52.3	47.2	40.5	33.7	27.0	20.2	13.5
137.5°	59.0	57.4	55.7	52.3	47.2	42.2	37.1	28.7	23.6	18.6	11.8
140°	54.0	52.3	50.6	45.5	42.2	37.1	32.1	25.3	20.2	15.2	10.1
142.5°	48.9	47.2	43.9	40.5	37.1	33.7	27.0	23.6	18.6	13.5	10.1
145°	42.2	40.5	38.8	35.4	32.1	27.0	23.6	20.2	16.9	11.8	8.4
147.5°	38.8	37.1	33.7	30.4	27.0	23.6	21.9	18.6	13.5	10.1	6.7
150°	32.1	30.4	28.7	25.3	23.6	21.9	18.6	15.2	11.8	8.4	6.7
152.5°	27.0	25.3	23.6	23.6	20.2	18.6	15.2	13.5	10.1	8.4	5.1
155°	23.6	23.6	21.9	20.2	16.9	15.2	13.5	10.1	8.4	6.7	5.1
157.5°	20.2	18.6	16.9	16.9	15.2	13.5	10.1	8.4	6.7	6.7	5.1
160°	16.9	15.2	15.2	13.5	11.8	10.1	8.4	8.4	6.7	5.1	5.1
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-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3071.8	3053.2	3070.1	3092.0	3092.0	3088.6	3085.3	3092.0	3108.9	3102.1	3081.9
5°	3066.7	3048.1	3063.3	3085.3	3085.3	3080.2	3076.8	3081.9	3100.4	3092.0	3073.4
7.5°	3056.6	3039.7	3049.8	3070.1	3070.1	3065.0	3061.6	3068.4	3083.6	3075.1	3054.9
10°	3038.0	3019.5	3031.3	3049.8	3048.1	3044.8	3039.7	3048.1	3061.6	3049.8	3026.2
12.5°	3014.4	2995.8	3006.0	3022.8	3021.2	3014.4	3011.0	3016.1	3027.9	3021.2	2995.8
15°	2982.4	2963.8	2972.2	2989.1	2984.0	2979.0	2972.2	2973.9	2989.1	2977.3	2950.3
17.5°	2943.6	2923.3	2930.1	2945.2	2940.2	2935.1	2926.7	2928.4	2945.2	2928.4	2899.7
20°	2896.3	2874.4	2879.5	2898.0	2889.6	2881.1	2872.7	2872.7	2889.6	2871.0	2839.0
22.5°	2845.7	2823.8	2827.2	2840.7	2833.9	2818.7	2810.3	2815.4	2823.8	2800.2	2766.4
25°	2783.3	2754.6	2759.7	2773.2	2768.1	2747.9	2739.4	2742.8	2739.4	2720.9	2685.5
27.5°	2710.8	2680.4	2683.8	2692.2	2685.5	2666.9	2656.8	2658.5	2651.7	2628.1	2587.6
30°	2619.7	2604.5	2602.8	2607.9	2597.8	2579.2	2567.4	2564.0	2562.3	2528.6	2479.7
32.5°	2526.9	2513.4	2505.0	2511.7	2499.9	2481.4	2461.1	2461.1	2444.2	2412.2	2370.0
35°	2432.4	2410.5	2402.1	2407.1	2393.6	2370.0	2353.2	2344.7	2319.4	2278.9	2233.4
37.5°	2311.0	2295.8	2285.7	2290.7	2275.6	2258.7	2226.6	2218.2	2191.2	2135.6	2078.2
40°	2179.4	2167.6	2157.5	2162.5	2145.7	2120.4	2091.7	2078.2	2047.8	1985.4	1939.9
42.5°	2037.7	2032.7	2020.8	2039.4	2005.7	1980.4	1951.7	1929.8	1899.4	1831.9	1779.6
45°	1887.6	1899.4	1872.4	1877.5	1855.5	1833.6	1803.2	1771.2	1740.8	1676.7	1617.7
47.5°	1729.0	1737.5	1718.9	1722.3	1698.7	1678.4	1651.4	1610.9	1577.2	1521.5	1469.2
50°	1565.4	1562.0	1562.0	1558.7	1540.1	1514.8	1487.8	1450.7	1417.0	1366.3	1322.5
52.5°	1391.7	1398.4	1401.8	1410.2	1386.6	1371.4	1329.2	1297.2	1271.9	1219.6	1182.5
55°	1224.7	1248.3	1241.5	1244.9	1217.9	1206.1	1172.4	1147.1	1109.9	1079.6	1056.0
57.5°	1072.8	1077.9	1081.3	1086.3	1074.5	1050.9	1023.9	1003.7	975.0	949.7	932.8
60°	926.1	926.1	927.8	936.2	924.4	904.2	883.9	868.7	848.5	833.3	823.2
62.5°	787.8	799.6	801.3	794.5	779.3	769.2	755.7	747.3	733.8	728.7	725.3
65°	659.6	659.6	659.6	662.9	654.5	647.8	639.3	637.6	642.7	635.9	639.3
67.5°	551.6	546.5	543.2	544.9	541.5	538.1	536.4	541.5	551.6	551.6	560.0
70°	458.8	448.7	442.0	442.0	442.0	443.6	448.7	458.8	475.7	482.4	494.2
72.5°	382.9	361.0	350.9	350.9	352.6	359.3	374.5	393.0	408.2	421.7	436.9
75°	310.4	288.5	273.3	271.6	275.0	285.1	307.0	323.9	349.2	367.7	386.3
77.5°	251.3	224.4	205.8	204.1	209.2	224.4	251.3	273.3	301.9	322.2	342.4
80°	200.7	170.4	155.2	145.1	153.5	172.1	202.4	229.4	256.4	283.4	308.7
82.5°	160.3	131.6	108.0	97.8	108.0	133.3	161.9	194.0	221.0	249.7	275.0
85°	126.5	96.2	69.2	59.0	70.8	97.8	129.9	161.9	192.3	221.0	246.3
87.5°	99.5	69.2	42.2	28.7	43.9	72.5	102.9	134.9	167.0	195.7	221.0
90°	77.6	48.9	23.6	3.4	25.3	52.3	82.7	113.0	145.1	173.7	199.0
92.5°	65.8	37.1	13.5	0.0	15.2	38.8	67.5	97.8	126.5	155.2	180.5
95°	55.7	30.4	10.1	0.0	10.1	30.4	55.7	82.7	111.3	140.0	165.3
97.5°	47.2	23.6	6.7	0.0	6.7	23.6	45.5	72.5	97.8	124.8	148.4
100°	40.5	20.2	5.1	0.0	5.1	18.6	38.8	62.4	87.7	113.0	134.9
102.5°	35.4	16.9	3.4	0.0	3.4	15.2	32.1	54.0	75.9	99.5	121.5
105°	30.4	13.5	3.4	0.0	1.7	11.8	27.0	47.2	67.5	89.4	109.6
107.5°	27.0	11.8	3.4	0.0	1.7	10.1	23.6	40.5	60.7	79.3	97.8
110°	23.6	10.1	3.4	0.0	1.7	6.7	20.2	35.4	52.3	70.8	89.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.2	8.4	1.7	0.0	0.0	5.1	16.9	30.4	45.5	64.1	79.3
115°	18.6	8.4	1.7	0.0	0.0	3.4	13.5	27.0	40.5	57.4	70.8
117.5°	16.9	6.7	1.7	0.0	1.7	3.4	11.8	23.6	35.4	48.9	64.1
120°	15.2	6.7	1.7	0.0	1.7	1.7	8.4	20.2	30.4	43.9	55.7
122.5°	13.5	6.7	1.7	0.0	1.7	1.7	6.7	16.9	27.0	38.8	48.9
125°	11.8	5.1	3.4	1.7	1.7	1.7	5.1	13.5	23.6	32.1	43.9
127.5°	11.8	5.1	3.4	1.7	1.7	1.7	3.4	11.8	18.6	28.7	38.8
130°	10.1	5.1	3.4	1.7	1.7	1.7	1.7	8.4	16.9	23.6	32.1
132.5°	8.4	5.1	3.4	1.7	1.7	1.7	1.7	5.1	11.8	20.2	27.0
135°	8.4	5.1	3.4	1.7	1.7	1.7	1.7	3.4	8.4	15.2	21.9
137.5°	6.7	3.4	3.4	1.7	1.7	1.7	1.7	1.7	6.7	11.8	16.9
140°	6.7	3.4	3.4	1.7	1.7	1.7	1.7	1.7	5.1	8.4	13.5
142.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4	6.7	10.1
145°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	6.7
147.5°	5.1	5.1	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1
150°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
152.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
155°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
157.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
160°	5.1	3.4	3.4	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3075.1	3043.1	3059.9	3054.9	3061.6	3075.1	3073.4	3070.1	3070.1	3065.0	3058.3
5°	3065.0	3034.6	3049.8	3041.4	3049.8	3061.6	3059.9	3054.9	3058.3	3049.8	3041.4
7.5°	3044.8	3017.8	3031.3	3024.5	3031.3	3043.1	3038.0	3036.3	3039.7	3026.2	3021.2
10°	3021.2	2990.8	3006.0	2997.5	3006.0	3014.4	3011.0	3004.3	3011.0	2997.5	2992.5
12.5°	2984.0	2958.7	2968.9	2965.5	2970.5	2979.0	2972.2	2967.2	2970.5	2958.7	2948.6
15°	2943.6	2918.3	2926.7	2921.6	2925.0	2935.1	2923.3	2921.6	2918.3	2906.4	2903.1
17.5°	2891.3	2867.6	2876.1	2867.6	2872.7	2869.3	2867.6	2859.2	2859.2	2845.7	2835.6
20°	2827.2	2806.9	2801.9	2795.1	2801.9	2795.1	2785.0	2778.2	2776.6	2763.1	2754.6
22.5°	2752.9	2729.3	2732.7	2714.1	2715.8	2705.7	2688.8	2682.1	2675.3	2660.2	2648.4
25°	2663.5	2639.9	2623.1	2611.2	2596.1	2594.4	2572.4	2555.6	2553.9	2535.3	2533.7
27.5°	2562.3	2535.3	2521.8	2493.2	2474.6	2459.4	2440.9	2424.0	2415.6	2395.3	2381.8
30°	2445.9	2415.6	2381.8	2361.6	2332.9	2321.1	2289.1	2268.8	2262.1	2240.1	2230.0
32.5°	2314.4	2282.3	2255.3	2216.5	2184.5	2167.6	2135.6	2115.3	2106.9	2083.3	2069.8
35°	2171.0	2135.6	2103.5	2066.4	2041.1	2012.4	1973.6	1953.4	1934.8	1926.4	1916.3
37.5°	2020.8	1982.1	1944.9	1907.8	1885.9	1852.2	1818.4	1804.9	1783.0	1774.6	1764.4
40°	1865.7	1826.9	1791.4	1756.0	1730.7	1700.3	1670.0	1664.9	1641.3	1632.9	1626.1
42.5°	1712.2	1671.7	1631.2	1605.9	1587.3	1557.0	1536.7	1531.7	1511.4	1506.4	1506.4
45°	1573.8	1523.2	1489.5	1467.6	1452.4	1427.1	1410.2	1406.8	1390.0	1386.6	1386.6
47.5°	1425.4	1378.2	1352.9	1339.4	1325.9	1307.3	1297.2	1297.2	1280.3	1276.9	1275.3
50°	1287.1	1243.2	1224.7	1211.2	1209.5	1196.0	1187.5	1184.2	1184.2	1172.4	1174.0
52.5°	1155.5	1133.6	1118.4	1109.9	1099.8	1091.4	1084.6	1084.6	1079.6	1071.2	1074.5
55°	1034.0	1008.7	1010.4	1003.7	998.6	993.6	995.2	985.1	983.4	976.7	981.7
57.5°	912.6	912.6	909.2	904.2	895.7	899.1	899.1	899.1	890.7	885.6	890.7
60°	809.7	814.7	806.3	811.4	808.0	809.7	806.3	806.3	801.3	799.6	801.3
62.5°	718.6	727.0	723.7	730.4	727.0	728.7	732.1	725.3	722.0	718.6	722.0
65°	637.6	647.8	646.1	651.1	652.8	654.5	656.2	652.8	649.4	646.1	644.4
67.5°	566.8	576.9	583.7	585.3	587.0	592.1	590.4	587.0	583.7	578.6	576.9
70°	502.7	516.2	524.6	528.0	534.7	531.4	531.4	529.7	526.3	521.2	519.6
72.5°	448.7	463.9	472.3	475.7	482.4	482.4	480.8	479.1	475.7	470.6	468.9
75°	401.5	415.0	426.8	433.5	438.6	438.6	436.9	435.2	431.8	428.5	426.8
77.5°	364.4	376.2	386.3	394.7	398.1	399.8	398.1	394.7	394.7	393.0	391.3
80°	327.2	340.7	350.9	359.3	364.4	364.4	362.7	364.4	361.0	359.3	357.6
82.5°	295.2	310.4	322.2	330.6	334.0	335.7	334.0	335.7	332.3	332.3	332.3
85°	266.5	281.7	295.2	301.9	307.0	308.7	308.7	308.7	307.0	307.0	307.0
87.5°	242.9	258.1	271.6	278.3	283.4	285.1	285.1	286.8	283.4	283.4	283.4
90°	221.0	236.2	249.7	256.4	261.5	264.8	264.8	266.5	264.8	263.1	263.1
92.5°	200.7	217.6	231.1	237.8	242.9	248.0	248.0	249.7	246.3	246.3	246.3
95°	183.9	200.7	212.5	221.0	226.0	229.4	231.1	231.1	229.4	229.4	229.4
97.5°	168.7	183.9	195.7	204.1	209.2	210.9	212.5	214.2	212.5	212.5	212.5
100°	153.5	168.7	180.5	187.2	194.0	195.7	197.4	199.0	199.0	197.4	197.4
102.5°	140.0	155.2	165.3	173.7	178.8	182.2	183.9	183.9	183.9	183.9	183.9
105°	126.5	141.7	151.8	160.3	165.3	168.7	170.4	172.1	172.1	170.4	170.4
107.5°	114.7	128.2	140.0	146.8	153.5	156.9	158.6	158.6	160.3	158.6	158.6
110°	102.9	118.1	128.2	134.9	141.7	145.1	146.8	148.4	148.4	148.4	148.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	94.5	106.3	116.4	123.1	129.9	133.3	134.9	136.6	138.3	136.6	136.6
115°	84.3	96.2	106.3	113.0	118.1	121.5	124.8	126.5	126.5	128.2	126.5
117.5°	75.9	86.0	96.2	102.9	108.0	113.0	114.7	116.4	118.1	116.4	116.4
120°	67.5	77.6	86.0	92.8	97.8	102.9	104.6	106.3	108.0	106.3	106.3
122.5°	60.7	69.2	77.6	84.3	89.4	92.8	96.2	96.2	97.8	97.8	97.8
125°	54.0	62.4	69.2	75.9	81.0	84.3	86.0	87.7	87.7	89.4	89.4
127.5°	47.2	54.0	62.4	67.5	72.5	75.9	77.6	79.3	79.3	81.0	81.0
130°	40.5	47.2	54.0	59.0	64.1	67.5	69.2	70.8	72.5	72.5	72.5
132.5°	35.4	42.2	47.2	52.3	55.7	59.0	62.4	64.1	64.1	64.1	64.1
135°	28.7	35.4	40.5	45.5	48.9	52.3	54.0	57.4	57.4	57.4	57.4
137.5°	23.6	30.4	35.4	38.8	42.2	45.5	47.2	48.9	50.6	50.6	50.6
140°	18.6	23.6	28.7	33.7	37.1	38.8	42.2	42.2	43.9	43.9	43.9
142.5°	13.5	18.6	21.9	27.0	30.4	33.7	35.4	37.1	37.1	37.1	37.1
145°	10.1	13.5	16.9	20.2	25.3	27.0	28.7	30.4	32.1	32.1	32.1
147.5°	6.7	10.1	11.8	15.2	18.6	21.9	23.6	25.3	27.0	27.0	27.0
150°	5.1	6.7	10.1	11.8	13.5	16.9	20.2	20.2	21.9	21.9	20.2
152.5°	3.4	5.1	6.7	8.4	10.1	11.8	15.2	15.2	16.9	16.9	16.9
155°	3.4	3.4	3.4	5.1	6.7	8.4	10.1	11.8	11.8	11.8	11.8
157.5°	3.4	3.4	3.4	3.4	3.4	5.1	6.7	8.4	8.4	8.4	8.4
160°	3.4	3.4	1.7	1.7	3.4	3.4	3.4	3.4	5.1	5.1	5.1
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-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3063.3	3066.7	3066.7	3063.3	3061.6	3068.4	3059.9	3027.9	3038.0	3041.4	3051.5
5°	3048.1	3051.5	3051.5	3051.5	3048.1	3054.9	3046.5	3014.4	3026.2	3031.3	3038.0
7.5°	3026.2	3027.9	3031.3	3029.6	3026.2	3036.3	3027.9	2995.8	3004.3	3012.7	3021.2
10°	2997.5	2997.5	2999.2	3002.6	2999.2	3007.7	2999.2	2970.5	2979.0	2984.0	2994.2
12.5°	2958.7	2962.1	2963.8	2962.1	2960.4	2967.2	2963.8	2936.8	2940.2	2950.3	2960.4
15°	2906.4	2906.4	2914.9	2911.5	2911.5	2918.3	2921.6	2891.3	2896.3	2911.5	2921.6
17.5°	2842.3	2844.0	2850.8	2854.2	2852.5	2864.3	2866.0	2842.3	2840.7	2859.2	2869.3
20°	2759.7	2763.1	2771.5	2778.2	2778.2	2791.7	2796.8	2781.6	2783.3	2803.5	2806.9
22.5°	2658.5	2658.5	2673.7	2683.8	2692.2	2700.6	2715.8	2702.3	2702.3	2729.3	2744.5
25°	2533.7	2545.5	2550.5	2570.8	2582.6	2606.2	2619.7	2621.4	2623.1	2648.4	2658.5
27.5°	2395.3	2398.7	2413.9	2437.5	2451.0	2472.9	2498.2	2503.3	2511.7	2545.5	2560.6
30°	2238.5	2248.6	2255.3	2289.1	2307.6	2336.3	2368.3	2380.1	2386.9	2432.4	2451.0
32.5°	2078.2	2081.6	2110.3	2128.8	2150.7	2181.1	2218.2	2240.1	2253.6	2300.9	2327.9
35°	1917.9	1924.7	1948.3	1971.9	1993.9	2024.2	2063.0	2093.4	2117.0	2159.2	2194.6
37.5°	1771.2	1788.1	1793.1	1816.7	1833.6	1864.0	1891.0	1934.8	1958.4	2002.3	2047.8
40°	1639.6	1644.7	1648.1	1671.7	1683.5	1712.2	1751.0	1779.6	1811.7	1843.7	1897.7
42.5°	1509.7	1513.1	1518.2	1531.7	1545.2	1565.4	1594.1	1622.8	1656.5	1703.7	1739.1
45°	1390.0	1393.3	1396.7	1405.1	1417.0	1435.5	1454.1	1474.3	1508.0	1548.5	1585.6
47.5°	1278.6	1285.4	1285.4	1287.1	1295.5	1310.7	1324.2	1349.5	1368.0	1390.0	1432.1
50°	1172.4	1177.4	1179.1	1179.1	1184.2	1194.3	1197.7	1214.5	1231.4	1251.6	1282.0
52.5°	1072.8	1072.8	1071.2	1077.9	1077.9	1084.6	1086.3	1096.5	1108.3	1130.2	1143.7
55°	978.4	978.4	983.4	980.1	980.1	983.4	981.7	983.4	993.6	1007.1	1018.9
57.5°	887.3	885.6	890.7	887.3	885.6	889.0	892.3	885.6	887.3	900.8	900.8
60°	796.2	797.9	802.9	799.6	799.6	799.6	796.2	792.8	789.4	797.9	801.3
62.5°	723.7	718.6	723.7	718.6	722.0	720.3	716.9	710.2	711.9	708.5	705.1
65°	647.8	647.8	649.4	644.4	647.8	647.8	642.7	641.0	630.9	627.5	619.1
67.5°	582.0	582.0	583.7	580.3	580.3	582.0	576.9	571.8	561.7	556.7	544.9
70°	524.6	524.6	524.6	522.9	522.9	522.9	519.6	512.8	502.7	494.2	479.1
72.5°	472.3	474.0	472.3	472.3	477.4	472.3	467.3	460.5	452.1	435.2	421.7
75°	430.1	431.8	430.1	430.1	430.1	428.5	426.8	416.7	406.5	393.0	372.8
77.5°	393.0	393.0	394.7	393.0	393.0	391.3	386.3	377.9	366.0	354.2	330.6
80°	357.6	359.3	361.0	362.7	359.3	357.6	352.6	345.8	330.6	317.1	293.5
82.5°	332.3	330.6	332.3	334.0	330.6	328.9	323.9	315.4	303.6	285.1	261.5
85°	307.0	305.3	305.3	307.0	305.3	301.9	296.9	288.5	276.6	258.1	234.5
87.5°	281.7	283.4	285.1	283.4	281.7	278.3	273.3	264.8	251.3	236.2	210.9
90°	263.1	263.1	263.1	263.1	261.5	258.1	253.0	242.9	231.1	212.5	190.6
92.5°	246.3	246.3	246.3	246.3	244.6	239.5	234.5	226.0	212.5	194.0	173.7
95°	229.4	231.1	229.4	229.4	226.0	224.4	215.9	207.5	195.7	177.1	155.2
97.5°	210.9	212.5	210.9	210.9	209.2	205.8	200.7	190.6	178.8	161.9	141.7
100°	197.4	197.4	195.7	195.7	194.0	190.6	183.9	175.4	163.6	146.8	126.5
102.5°	182.2	183.9	182.2	182.2	178.8	175.4	170.4	161.9	150.1	133.3	114.7
105°	170.4	170.4	168.7	168.7	165.3	161.9	156.9	146.8	136.6	121.5	102.9
107.5°	158.6	158.6	156.9	156.9	153.5	150.1	143.4	134.9	124.8	109.6	92.8
110°	146.8	146.8	146.8	145.1	141.7	136.6	131.6	123.1	113.0	99.5	82.7





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.3	136.6	134.9	133.3	129.9	126.5	119.8	111.3	101.2	89.4	74.2
115°	126.5	126.5	124.8	123.1	119.8	114.7	109.6	102.9	92.8	79.3	65.8
117.5°	116.4	116.4	114.7	113.0	109.6	104.6	99.5	92.8	82.7	70.8	59.0
120°	106.3	106.3	104.6	102.9	99.5	94.5	91.1	82.7	74.2	62.4	52.3
122.5°	97.8	96.2	96.2	92.8	91.1	86.0	81.0	74.2	65.8	55.7	45.5
125°	87.7	87.7	86.0	84.3	82.7	77.6	72.5	65.8	57.4	48.9	40.5
127.5°	79.3	79.3	77.6	75.9	74.2	69.2	64.1	59.0	50.6	42.2	33.7
130°	70.8	70.8	69.2	67.5	65.8	60.7	57.4	50.6	43.9	37.1	28.7
132.5°	64.1	64.1	62.4	60.7	57.4	54.0	50.6	43.9	38.8	32.1	25.3
135°	57.4	55.7	55.7	54.0	50.6	47.2	43.9	38.8	32.1	27.0	20.2
137.5°	50.6	48.9	47.2	45.5	43.9	40.5	37.1	33.7	28.7	21.9	16.9
140°	43.9	42.2	42.2	40.5	37.1	35.4	32.1	27.0	23.6	18.6	13.5
142.5°	37.1	37.1	35.4	33.7	32.1	30.4	27.0	23.6	18.6	15.2	10.1
145°	32.1	30.4	30.4	28.7	27.0	23.6	21.9	18.6	15.2	11.8	8.4
147.5°	25.3	25.3	25.3	23.6	21.9	20.2	18.6	15.2	11.8	8.4	5.1
150°	20.2	20.2	20.2	18.6	16.9	15.2	13.5	11.8	8.4	5.1	3.4
152.5°	16.9	16.9	15.2	15.2	13.5	11.8	10.1	8.4	5.1	3.4	3.4
155°	11.8	11.8	11.8	10.1	10.1	8.4	6.7	5.1	3.4	3.4	3.4
157.5°	8.4	8.4	8.4	6.7	6.7	5.1	5.1	3.4	3.4	3.4	3.4
160°	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7	3066.7
2.5°	3046.5	3044.8	3058.3	3058.3	3043.1	3066.7	3092.0
5°	3036.3	3034.6	3048.1	3048.1	3034.6	3058.3	3085.3
7.5°	3016.1	3017.8	3031.3	3034.6	3017.8	3039.7	3068.4
10°	2994.2	2992.5	3007.7	3011.0	2997.5	3017.8	3044.8
12.5°	2958.7	2958.7	2973.9	2979.0	2965.5	2989.1	3014.4
15°	2921.6	2921.6	2931.7	2940.2	2928.4	2950.3	2975.6
17.5°	2874.4	2872.7	2882.8	2892.9	2881.1	2904.8	2931.7
20°	2813.7	2813.7	2825.5	2837.3	2828.8	2850.8	2881.1
22.5°	2749.6	2742.8	2763.1	2771.5	2766.4	2788.4	2818.7
25°	2668.6	2666.9	2687.2	2699.0	2692.2	2715.8	2742.8
27.5°	2580.9	2579.2	2599.4	2614.6	2611.2	2633.2	2663.5
30°	2474.6	2483.0	2501.6	2526.9	2518.5	2542.1	2574.1
32.5°	2363.3	2371.7	2393.6	2420.6	2422.3	2440.9	2472.9
35°	2230.0	2251.9	2267.1	2302.6	2309.3	2327.9	2361.6
37.5°	2090.0	2115.3	2147.4	2174.4	2187.8	2203.0	2241.8
40°	1933.1	1970.2	2005.7	2037.7	2054.6	2069.8	2106.9
42.5°	1791.4	1820.1	1853.8	1885.9	1916.3	1929.8	1968.6
45°	1631.2	1664.9	1695.3	1734.1	1764.4	1779.6	1818.4
47.5°	1474.3	1508.0	1548.5	1575.5	1607.6	1622.8	1659.9
50°	1324.2	1354.5	1388.3	1420.3	1447.3	1460.8	1492.9
52.5°	1175.7	1207.8	1239.8	1260.1	1288.8	1298.9	1325.9
55°	1044.2	1066.1	1094.8	1106.6	1135.3	1142.0	1160.6
57.5°	917.6	932.8	942.9	963.2	983.4	998.6	1020.5
60°	802.9	809.7	816.4	828.2	845.1	850.2	858.6
62.5°	700.0	698.4	711.9	715.2	716.9	733.8	725.3
65°	609.0	610.6	598.8	593.8	600.5	605.6	602.2
67.5°	533.0	522.9	512.8	501.0	490.9	495.9	490.9
70°	458.8	450.4	433.5	416.7	409.9	399.8	394.7
72.5°	399.8	379.5	362.7	340.7	328.9	317.1	308.7
75°	354.2	325.6	301.9	278.3	261.5	244.6	241.2
77.5°	307.0	280.0	253.0	227.7	202.4	183.9	177.1
80°	269.9	244.6	212.5	182.2	155.2	131.6	123.1
82.5°	236.2	209.2	177.1	145.1	114.7	89.4	79.3
85°	207.5	178.8	146.8	114.7	84.3	57.4	43.9
87.5°	185.6	153.5	121.5	91.1	59.0	32.1	16.9
90°	165.3	134.9	104.6	72.5	42.2	16.9	0.0
92.5°	146.8	118.1	87.7	59.0	32.1	10.1	1.7
95°	129.9	104.6	74.2	47.2	23.6	6.7	1.7
97.5°	116.4	91.1	64.1	38.8	18.6	5.1	1.7
100°	104.6	79.3	55.7	32.1	15.2	3.4	1.7
102.5°	92.8	70.8	47.2	27.0	11.8	1.7	1.7
105°	82.7	62.4	40.5	23.6	10.1	1.7	1.7
107.5°	74.2	55.7	35.4	20.2	6.7	1.7	1.7
110°	65.8	47.2	30.4	16.9	5.1	1.7	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	59.0	42.2	27.0	13.5	3.4	1.7	1.7
115°	52.3	37.1	23.6	11.8	3.4	1.7	1.7
117.5°	45.5	32.1	20.2	8.4	1.7	1.7	1.7
120°	40.5	28.7	16.9	6.7	1.7	1.7	1.7
122.5°	35.4	23.6	13.5	5.1	1.7	1.7	1.7
125°	30.4	20.2	11.8	3.4	1.7	1.7	1.7
127.5°	25.3	16.9	8.4	3.4	1.7	1.7	1.7
130°	21.9	13.5	6.7	1.7	1.7	1.7	1.7
132.5°	18.6	10.1	5.1	1.7	1.7	1.7	1.7
135°	15.2	8.4	3.4	1.7	1.7	1.7	1.7
137.5°	11.8	6.7	3.4	1.7	1.7	1.7	1.7
140°	8.4	5.1	1.7	1.7	1.7	1.7	1.7
142.5°	6.7	3.4	1.7	1.7	1.7	1.7	1.7
145°	5.1	3.4	1.7	1.7	1.7	1.7	1.7
147.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7
150°	3.4	3.4	1.7	1.7	3.4	1.7	1.7
152.5°	3.4	1.7	1.7	1.7	3.4	1.7	1.7
155°	3.4	3.4	3.4	3.4	3.4	3.4	1.7
157.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
160°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)