

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: **4SNLED-LD5-73SL-LC-UNV-L950-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: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

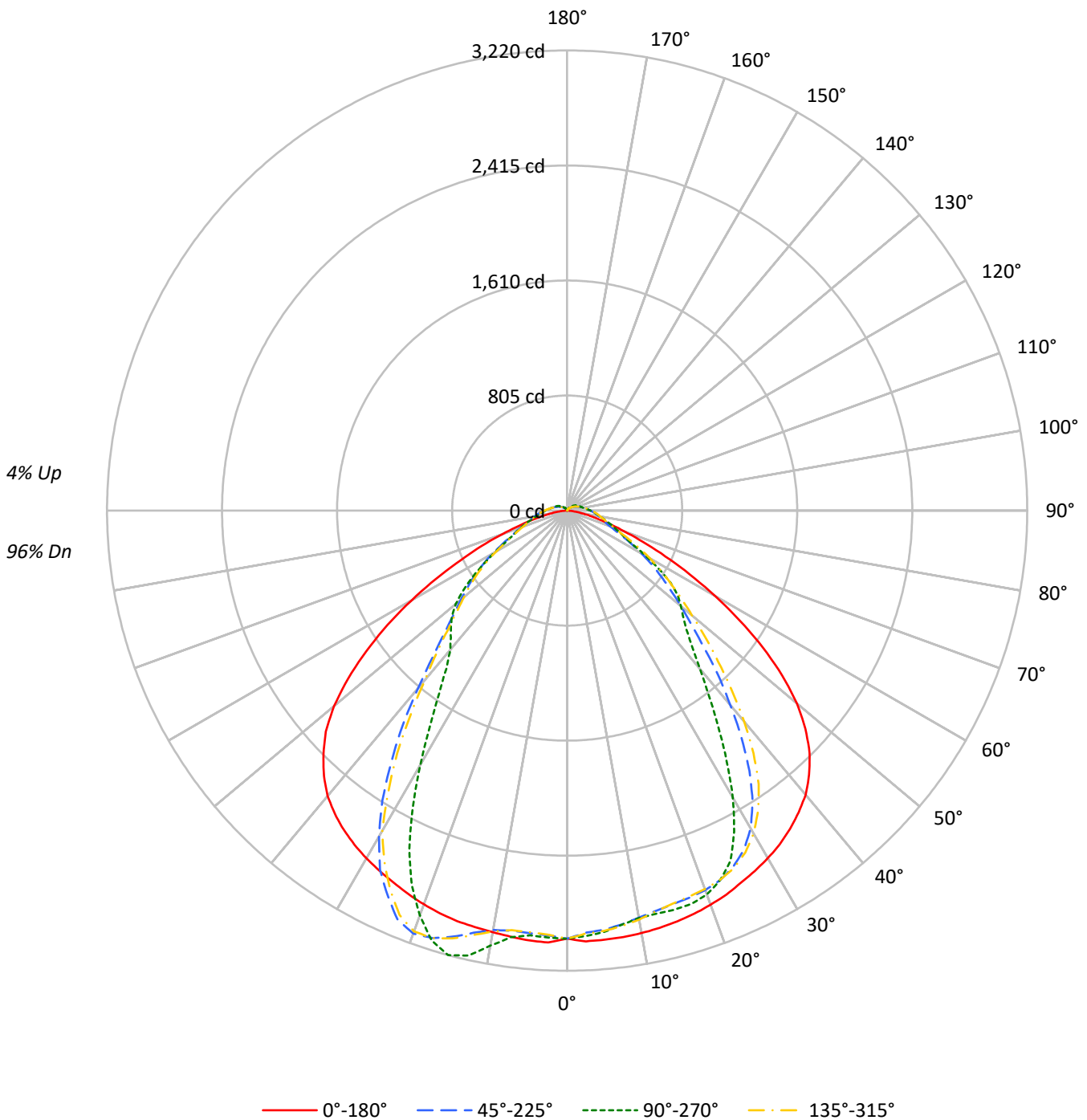
Lumens per Lamp: N/A  
Luminaire Lumens: 7141.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 70  
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°	24207	24207	24207	24207
5°	24383	23247	24433	23429
10°	24496	22280	24445	23792
15°	24686	21982	24672	24475
20°	24957	21633	24931	22804
25°	25265	20523	25251	19830
30°	25740	17787	25754	15758
35°	26244	14383	26318	12172
40°	26689	11581	26800	10203
45°	26595	9809	26732	9552
50°	25448	9031	25804	8829
55°	22578	8117	23142	7380
60°	18314	6213	19286	5698
65°	13614	4753	14668	4508
70°	9258	4104	10436	3923
75°	6056	3702	7052	3501
80°	3914	3452	4586	3175
85°	2009	3444	2644	3146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.5	4.0
10°-20°	846.6	11.9
20°-30°	1287.1	18.0
30°-40°	1380.7	19.3
40°-50°	1198.3	16.8
50°-60°	888.1	12.4
60°-70°	508.8	7.1
70°-80°	281.8	3.9
80°-90°	171.6	2.4
90°-100°	111.6	1.6
100°-110°	74.7	1.0
110°-120°	50.5	0.7
120°-130°	31.0	0.4
130°-140°	16.3	0.2
140°-150°	7.4	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2418.2	33.9
0°-40°	3798.9	53.2
0°-60°	5885.2	82.4
0°-90°	6847.4	95.9
90°-120°	236.8	3.3
90°-150°	291.4	4.1
90°-180°	294.0	4.1
0°-180°	7141.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2996	2996	2996	2996	2996	
5°	3014	2960	3020	2983	3014	287
15°	2975	2892	2974	3220	2975	842
25°	2875	2705	2873	2613	2875	1329
35°	2718	1841	2726	1558	2718	1702
45°	2400	1180	2412	1150	2400	1837
55°	1674	885	1716	805	1674	1485
65°	760	449	818	426	760	766
75°	217	285	252	269	217	247
85°	29	196	39	180	29	39
90°	0	164	3	152	0	1
95°	2	135	0	128	2	1
105°	2	101	2	96	2	2
115°	2	82	2	74	2	1
125°	2	62	2	51	2	1
135°	2	39	2	32	2	1
145°	2	23	3	19	2	1
155°	3	11	3	9	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	3017.1	3009.4	3006.3	3000.1	3004.8	3023.3	3010.9	2990.8	2992.4	2956.8	2975.4
5°	3014.0	3004.8	3000.1	2993.9	2997.0	3014.0	3001.7	2981.5	2980.0	2944.4	2961.4
7.5°	3009.4	3000.1	2992.4	2987.7	2989.3	3003.2	2987.7	2964.5	2959.9	2921.2	2936.7
10°	3001.7	2995.5	2984.6	2976.9	2975.4	2990.8	2966.1	2942.9	2932.0	2891.8	2907.3
12.5°	2990.8	2981.5	2970.7	2956.8	2955.2	2964.5	2944.4	2911.9	2901.1	2868.6	2885.6
15°	2975.4	2964.5	2952.1	2936.7	2928.9	2935.1	2910.4	2881.0	2879.4	2851.6	2874.8
17.5°	2958.3	2942.9	2928.9	2907.3	2896.4	2901.1	2881.0	2854.7	2857.8	2840.7	2867.0
20°	2935.1	2918.1	2896.4	2874.8	2859.3	2867.0	2853.1	2833.0	2837.6	2825.3	2848.5
22.5°	2908.8	2885.6	2859.3	2834.6	2822.2	2833.0	2822.2	2805.2	2806.7	2799.0	2812.9
25°	2874.8	2848.5	2817.5	2786.6	2780.4	2788.1	2781.9	2768.0	2761.8	2749.5	2755.6
27.5°	2843.8	2814.4	2775.8	2743.3	2732.4	2747.9	2734.0	2710.8	2693.8	2676.7	2664.4
30°	2808.3	2772.7	2729.3	2692.2	2682.9	2689.1	2669.0	2633.4	2588.5	2566.9	2532.8
32.5°	2769.6	2723.2	2669.0	2627.2	2621.0	2616.4	2579.3	2528.2	2458.6	2415.3	2362.6
35°	2718.5	2667.5	2602.5	2551.4	2542.1	2515.8	2455.5	2387.4	2297.7	2223.4	2133.7
37.5°	2661.3	2600.9	2532.8	2464.8	2438.5	2385.9	2300.8	2229.6	2093.4	2003.7	1895.4
40°	2596.3	2523.6	2440.0	2358.0	2314.7	2229.6	2132.1	2026.9	1895.4	1774.7	1683.4
42.5°	2506.5	2429.2	2330.2	2238.9	2164.6	2051.6	1937.2	1788.6	1667.9	1565.8	1473.0
45°	2399.8	2306.9	2192.4	2082.6	1988.2	1853.6	1719.0	1570.5	1469.9	1350.7	1287.3
47.5°	2262.1	2161.5	2039.3	1917.0	1793.3	1644.7	1503.9	1361.6	1261.0	1175.9	1129.5
50°	2099.6	2006.8	1872.2	1726.7	1590.6	1435.8	1295.0	1188.3	1090.8	1038.2	1002.6
52.5°	1898.5	1811.8	1674.1	1516.3	1384.8	1233.2	1104.7	1018.1	948.5	909.8	897.4
55°	1674.1	1598.3	1462.1	1315.2	1180.5	1041.3	943.8	868.0	823.1	799.9	801.5
57.5°	1434.3	1375.5	1247.1	1115.6	988.7	883.5	795.3	734.9	700.9	699.4	704.0
60°	1194.5	1151.2	1039.7	926.8	815.4	730.3	665.3	623.5	601.9	603.4	601.9
62.5°	965.5	925.3	844.8	752.0	663.8	606.5	547.7	530.7	512.1	510.6	510.6
65°	759.7	728.8	663.8	597.2	530.7	493.6	464.2	444.1	430.1	427.0	428.6
67.5°	570.9	558.6	513.7	468.8	427.0	403.8	379.1	374.4	363.6	363.6	366.7
70°	425.5	416.2	391.5	365.2	348.1	332.7	320.3	320.3	318.7	317.2	324.9
72.5°	307.9	309.4	301.7	281.6	280.1	277.0	273.9	278.5	280.1	284.7	294.0
75°	216.6	221.3	221.3	218.2	224.4	232.1	236.7	244.5	253.7	259.9	270.8
77.5°	153.2	153.2	160.9	170.2	182.6	196.5	208.9	219.7	232.1	239.8	249.1
80°	99.0	103.7	116.0	133.1	150.1	168.6	185.7	199.6	212.0	224.4	230.5
82.5°	58.8	66.5	82.0	103.7	125.3	148.5	165.6	182.6	196.5	208.9	213.5
85°	29.4	40.2	58.8	82.0	105.2	130.0	151.6	167.1	182.6	193.4	199.6
87.5°	9.3	21.7	41.8	63.4	88.2	112.9	136.2	153.2	167.1	176.4	182.6
90°	0.0	10.8	29.4	52.6	75.8	100.6	122.2	140.8	154.7	162.5	167.1
92.5°	0.0	6.2	23.2	43.3	65.0	89.7	111.4	128.4	140.8	148.5	151.6
95°	1.5	4.6	17.0	35.6	57.2	80.5	100.6	116.0	128.4	136.2	137.7
97.5°	1.5	3.1	13.9	29.4	49.5	71.2	91.3	106.8	116.0	123.8	125.3
100°	1.5	3.1	10.8	26.3	43.3	63.4	82.0	95.9	106.8	112.9	114.5
102.5°	1.5	1.5	9.3	21.7	38.7	55.7	72.7	86.6	95.9	102.1	105.2
105°	1.5	1.5	7.7	18.6	34.0	49.5	65.0	78.9	86.6	92.8	95.9
107.5°	1.5	1.5	6.2	15.5	29.4	43.3	58.8	69.6	78.9	85.1	88.2
110°	1.5	1.5	4.6	13.9	24.8	38.7	51.1	61.9	71.2	77.4	80.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.5	1.5	4.6	12.4	21.7	34.0	44.9	55.7	63.4	69.6	74.3
115°	1.5	1.5	4.6	10.8	20.1	29.4	40.2	49.5	57.2	63.4	68.1
117.5°	1.5	1.5	4.6	9.3	17.0	26.3	35.6	44.9	51.1	57.2	61.9
120°	1.5	1.5	3.1	7.7	15.5	23.2	30.9	38.7	46.4	52.6	57.2
122.5°	1.5	1.5	3.1	7.7	12.4	20.1	27.9	34.0	41.8	46.4	51.1
125°	1.5	1.5	3.1	6.2	10.8	18.6	24.8	30.9	35.6	41.8	46.4
127.5°	1.5	1.5	3.1	6.2	9.3	15.5	21.7	27.9	32.5	37.1	40.2
130°	1.5	1.5	3.1	4.6	7.7	12.4	18.6	23.2	29.4	32.5	35.6
132.5°	1.5	1.5	1.5	4.6	6.2	9.3	13.9	20.1	24.8	29.4	30.9
135°	1.5	1.5	1.5	3.1	6.2	7.7	10.8	15.5	20.1	24.8	27.9
137.5°	1.5	1.5	1.5	3.1	4.6	7.7	9.3	12.4	17.0	20.1	24.8
140°	1.5	1.5	1.5	3.1	4.6	6.2	7.7	10.8	13.9	17.0	20.1
142.5°	1.5	1.5	1.5	3.1	3.1	4.6	6.2	9.3	10.8	13.9	17.0
145°	1.5	1.5	1.5	3.1	3.1	4.6	6.2	7.7	9.3	10.8	13.9
147.5°	1.5	1.5	1.5	3.1	3.1	3.1	4.6	6.2	7.7	9.3	10.8
150°	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	6.2	7.7	9.3
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6	6.2	7.7
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	6.2	6.2
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°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	2969.2	2972.3	2990.8	2989.3	2986.2	2983.1	2983.1	2980.0	2983.1	2990.8	2987.7
5°	2953.7	2958.3	2972.3	2970.7	2967.6	2966.1	2964.5	2959.9	2963.0	2973.8	2970.7
7.5°	2925.8	2930.5	2942.9	2936.7	2932.0	2935.1	2927.4	2922.7	2928.9	2939.8	2938.2
10°	2896.4	2899.5	2915.0	2911.9	2904.2	2905.7	2898.0	2894.9	2902.6	2908.8	2910.4
12.5°	2876.3	2887.2	2901.1	2899.5	2898.0	2899.5	2891.8	2888.7	2893.4	2899.5	2898.0
15°	2871.7	2885.6	2901.1	2901.1	2902.6	2904.2	2896.4	2891.8	2896.4	2901.1	2899.5
17.5°	2867.0	2884.1	2898.0	2896.4	2898.0	2901.1	2888.7	2885.6	2891.8	2898.0	2894.9
20°	2851.6	2867.0	2876.3	2873.2	2873.2	2874.8	2859.3	2859.3	2868.6	2873.2	2874.8
22.5°	2808.3	2826.8	2826.8	2819.1	2819.1	2812.9	2808.3	2799.0	2809.8	2817.5	2823.7
25°	2743.3	2751.0	2741.7	2724.7	2715.4	2707.7	2686.0	2704.6	2704.6	2727.8	2735.5
27.5°	2652.0	2635.0	2608.7	2573.1	2565.3	2540.6	2526.7	2531.3	2539.0	2571.5	2596.3
30°	2501.9	2450.8	2406.0	2390.5	2356.5	2331.7	2306.9	2319.3	2333.2	2351.8	2402.9
32.5°	2303.8	2254.3	2181.6	2155.3	2119.7	2088.8	2059.4	2078.0	2102.7	2115.1	2170.8
35°	2076.4	2017.6	1951.1	1906.2	1869.1	1852.1	1814.9	1841.2	1867.5	1876.8	1924.8
37.5°	1835.0	1774.7	1715.9	1677.2	1641.6	1630.8	1606.0	1624.6	1644.7	1658.6	1698.9
40°	1606.0	1550.3	1505.5	1479.2	1454.4	1445.1	1435.8	1443.6	1459.1	1469.9	1500.8
42.5°	1409.5	1364.7	1333.7	1318.3	1301.2	1288.9	1290.4	1293.5	1301.2	1324.4	1338.4
45°	1237.8	1211.5	1191.4	1188.3	1177.5	1175.9	1174.4	1180.5	1185.2	1199.1	1209.9
47.5°	1100.1	1089.3	1084.6	1090.8	1095.5	1089.3	1092.4	1100.1	1109.4	1109.4	1107.8
50°	991.8	994.9	1001.1	1015.0	1024.3	1027.4	1030.5	1039.7	1041.3	1044.4	1039.7
52.5°	903.6	906.7	923.7	945.4	956.2	960.8	967.0	976.3	976.3	979.4	973.2
55°	813.9	818.5	835.5	857.2	866.5	872.6	878.8	885.0	889.7	895.9	891.2
57.5°	714.8	728.8	739.6	745.8	752.0	756.6	761.2	762.8	772.1	773.6	781.4
60°	609.6	612.7	623.5	622.0	617.4	629.7	623.5	634.4	645.2	659.1	660.7
62.5°	509.0	510.6	518.3	515.2	521.4	519.9	524.5	524.5	532.3	538.4	546.2
65°	430.1	431.7	437.9	437.9	436.3	441.0	445.6	448.7	448.7	453.3	459.5
67.5°	371.3	376.0	382.2	385.3	388.4	388.4	393.0	394.5	397.6	399.2	402.3
70°	331.1	337.3	343.5	346.6	348.1	351.2	352.8	352.8	355.9	357.4	360.5
72.5°	301.7	307.9	312.5	312.5	315.6	317.2	317.2	318.7	320.3	323.4	326.5
75°	277.0	281.6	284.7	283.1	283.1	283.1	284.7	284.7	287.8	290.9	294.0
77.5°	253.7	258.4	258.4	255.3	255.3	255.3	255.3	256.8	258.4	261.5	264.6
80°	236.7	236.7	235.2	235.2	232.1	230.5	230.5	232.1	232.1	235.2	239.8
82.5°	218.2	218.2	216.6	215.1	213.5	212.0	212.0	213.5	215.1	216.6	219.7
85°	201.1	201.1	198.0	198.0	196.5	196.5	196.5	196.5	198.0	199.6	202.7
87.5°	184.1	182.6	181.0	179.5	179.5	179.5	179.5	179.5	181.0	184.1	185.7
90°	167.1	165.6	164.0	164.0	162.5	162.5	164.0	164.0	165.6	167.1	168.6
92.5°	151.6	150.1	148.5	148.5	147.0	147.0	148.5	147.0	150.1	150.1	151.6
95°	137.7	136.2	134.6	134.6	134.6	134.6	134.6	134.6	136.2	136.2	137.7
97.5°	125.3	123.8	122.2	122.2	123.8	122.2	123.8	123.8	123.8	125.3	126.9
100°	114.5	112.9	112.9	114.5	112.9	112.9	114.5	114.5	114.5	114.5	116.0
102.5°	105.2	105.2	105.2	105.2	105.2	105.2	106.8	106.8	106.8	106.8	108.3
105°	95.9	97.5	97.5	97.5	99.0	99.0	99.0	100.6	100.6	100.6	100.6
107.5°	89.7	91.3	91.3	92.8	92.8	94.4	94.4	94.4	94.4	95.9	95.9
110°	83.6	85.1	86.6	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	77.4	78.9	80.5	83.6	85.1	85.1	85.1	85.1	86.6	86.6	85.1
115°	71.2	74.3	75.8	78.9	80.5	80.5	82.0	82.0	82.0	82.0	80.5
117.5°	65.0	69.6	71.2	74.3	75.8	75.8	77.4	77.4	77.4	77.4	75.8
120°	60.3	63.4	66.5	68.1	69.6	71.2	71.2	72.7	72.7	72.7	71.2
122.5°	55.7	58.8	61.9	63.4	65.0	66.5	66.5	66.5	66.5	66.5	66.5
125°	49.5	52.6	55.7	57.2	58.8	60.3	60.3	61.9	61.9	61.9	60.3
127.5°	44.9	48.0	49.5	52.6	54.2	54.2	55.7	55.7	55.7	55.7	54.2
130°	38.7	41.8	44.9	46.4	48.0	48.0	49.5	49.5	49.5	49.5	49.5
132.5°	34.0	37.1	38.7	41.8	41.8	43.3	43.3	44.9	44.9	44.9	43.3
135°	30.9	32.5	34.0	37.1	37.1	38.7	38.7	38.7	38.7	38.7	38.7
137.5°	27.9	29.4	30.9	32.5	32.5	34.0	34.0	34.0	34.0	35.6	34.0
140°	23.2	26.3	27.9	27.9	29.4	29.4	29.4	30.9	30.9	30.9	29.4
142.5°	20.1	21.7	23.2	24.8	26.3	26.3	26.3	26.3	27.9	26.3	26.3
145°	15.5	18.6	20.1	21.7	23.2	23.2	23.2	23.2	23.2	23.2	23.2
147.5°	12.4	13.9	17.0	18.6	18.6	20.1	20.1	20.1	20.1	20.1	20.1
150°	10.8	10.8	13.9	15.5	17.0	17.0	17.0	17.0	17.0	17.0	17.0
152.5°	7.7	9.3	10.8	12.4	13.9	13.9	13.9	13.9	13.9	13.9	13.9
155°	7.7	7.7	9.3	9.3	10.8	10.8	10.8	10.8	12.4	10.8	10.8
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: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	2983.1	2981.5	2987.7	2981.5	2950.6	2963.0	2958.3	2975.4	2976.9	2981.5	2997.0
5°	2967.6	2967.6	2975.4	2969.2	2939.8	2952.1	2950.6	2967.6	2970.7	2973.8	2990.8
7.5°	2936.7	2938.2	2949.1	2944.4	2913.5	2932.0	2930.5	2950.6	2956.8	2963.0	2978.4
10°	2907.3	2905.7	2918.1	2913.5	2884.1	2905.7	2904.2	2924.3	2933.6	2944.4	2963.0
12.5°	2891.8	2887.2	2891.8	2887.2	2854.7	2871.7	2873.2	2896.4	2907.3	2921.2	2942.9
15°	2891.8	2884.1	2884.1	2874.8	2837.6	2848.5	2850.0	2865.5	2879.4	2893.4	2919.7
17.5°	2888.7	2881.0	2879.4	2871.7	2831.5	2831.5	2829.9	2840.7	2848.5	2862.4	2890.3
20°	2871.7	2868.6	2867.0	2862.4	2825.3	2819.1	2816.0	2816.0	2820.6	2825.3	2853.1
22.5°	2826.8	2829.9	2833.0	2836.1	2806.7	2795.9	2797.4	2794.3	2789.7	2789.7	2812.9
25°	2743.3	2758.7	2771.1	2785.0	2768.0	2760.3	2769.6	2764.9	2757.2	2751.0	2771.1
27.5°	2610.2	2642.7	2669.0	2703.0	2704.6	2698.4	2723.2	2720.1	2718.5	2709.2	2724.7
30°	2426.1	2477.1	2512.7	2562.2	2604.0	2610.2	2652.0	2658.2	2664.4	2659.7	2675.2
32.5°	2203.3	2272.9	2333.2	2410.6	2450.8	2486.4	2545.2	2570.0	2594.7	2602.5	2619.5
35°	1960.4	2039.3	2110.4	2195.5	2259.0	2336.3	2407.5	2444.6	2500.3	2522.0	2546.8
37.5°	1729.8	1804.1	1873.7	1958.8	2060.9	2141.4	2229.6	2313.1	2388.9	2419.9	2457.0
40°	1525.6	1585.9	1652.5	1726.7	1819.6	1924.8	2020.7	2136.7	2226.5	2288.4	2342.5
42.5°	1370.9	1400.3	1457.5	1524.0	1598.3	1705.1	1802.5	1932.5	2040.8	2129.0	2218.8
45°	1233.2	1247.1	1288.9	1324.4	1400.3	1494.6	1598.3	1725.2	1838.1	1951.1	2059.4
47.5°	1115.6	1132.6	1152.7	1174.4	1228.5	1307.4	1397.2	1511.7	1624.6	1756.1	1879.9
50°	1036.7	1041.3	1044.4	1053.7	1086.2	1140.3	1213.0	1310.5	1418.8	1559.6	1691.1
52.5°	967.0	967.0	957.7	953.1	965.5	999.5	1041.3	1110.9	1222.3	1352.3	1491.5
55°	892.8	878.8	875.7	860.3	863.4	878.8	898.9	953.1	1044.4	1155.8	1290.4
57.5°	789.1	782.9	782.9	776.7	764.3	772.1	776.7	815.4	880.4	976.3	1093.9
60°	670.0	666.9	674.6	676.1	665.3	670.0	668.4	691.6	738.0	815.4	912.9
62.5°	550.8	564.7	566.3	572.5	566.3	564.7	572.5	592.6	615.8	674.6	750.4
65°	462.6	470.4	471.9	479.6	476.6	476.6	482.7	498.2	512.1	552.4	611.2
67.5°	405.4	402.3	403.8	408.5	403.8	402.3	406.9	416.2	427.0	451.8	493.6
70°	360.5	357.4	357.4	357.4	351.2	346.6	348.1	351.2	355.9	369.8	396.1
72.5°	326.5	326.5	321.8	317.2	312.5	309.4	306.4	303.3	301.7	306.4	320.3
75°	295.5	297.1	295.5	290.9	284.7	278.5	272.3	266.1	258.4	255.3	256.8
77.5°	267.7	269.2	270.8	269.2	263.0	255.3	246.0	236.7	225.9	215.1	208.9
80°	242.9	246.0	247.6	246.0	241.4	235.2	224.4	213.5	198.0	184.1	168.6
82.5°	221.3	225.9	227.4	227.4	224.4	218.2	205.8	193.4	176.4	157.8	137.7
85°	204.2	207.3	210.4	210.4	208.9	202.7	190.3	176.4	159.4	137.7	116.0
87.5°	187.2	188.8	191.9	195.0	191.9	185.7	174.8	159.4	142.3	120.7	95.9
90°	170.2	171.7	174.8	177.9	176.4	170.2	160.9	147.0	128.4	105.2	80.5
92.5°	153.2	156.3	157.8	159.4	160.9	156.3	148.5	134.6	116.0	92.8	69.6
95°	140.8	140.8	143.9	145.4	147.0	142.3	136.2	122.2	105.2	83.6	60.3
97.5°	128.4	128.4	131.5	131.5	133.1	130.0	123.8	111.4	94.4	74.3	51.1
100°	116.0	117.6	119.1	120.7	120.7	119.1	112.9	100.6	85.1	66.5	44.9
102.5°	108.3	108.3	109.9	109.9	111.4	108.3	102.1	91.3	75.8	58.8	38.7
105°	100.6	100.6	102.1	102.1	100.6	97.5	91.3	82.0	68.1	51.1	34.0
107.5°	94.4	94.4	94.4	94.4	92.8	89.7	83.6	72.7	60.3	46.4	30.9
110°	89.7	88.2	88.2	86.6	85.1	80.5	74.3	65.0	54.2	40.2	26.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	85.1	83.6	82.0	80.5	77.4	72.7	66.5	58.8	48.0	35.6	23.2
115°	80.5	78.9	77.4	74.3	71.2	66.5	60.3	52.6	41.8	30.9	20.1
117.5°	75.8	74.3	71.2	68.1	65.0	60.3	54.2	46.4	37.1	27.9	18.6
120°	69.6	68.1	66.5	63.4	60.3	54.2	48.0	41.8	32.5	24.8	15.5
122.5°	65.0	63.4	60.3	58.8	54.2	49.5	43.3	37.1	29.4	21.7	13.9
125°	58.8	57.2	55.7	52.6	49.5	43.3	38.7	32.5	26.3	18.6	10.8
127.5°	54.2	52.6	49.5	46.4	43.3	38.7	34.0	29.4	23.2	15.5	10.8
130°	48.0	46.4	44.9	41.8	38.7	34.0	30.9	24.8	20.1	13.9	9.3
132.5°	41.8	41.8	40.2	37.1	34.0	30.9	26.3	21.7	17.0	12.4	7.7
135°	38.7	37.1	35.6	32.5	30.9	26.3	23.2	18.6	13.9	10.8	6.2
137.5°	34.0	32.5	30.9	29.4	26.3	23.2	20.1	15.5	12.4	9.3	6.2
140°	29.4	27.9	27.9	24.8	23.2	20.1	17.0	13.9	10.8	7.7	4.6
142.5°	26.3	24.8	23.2	21.7	20.1	17.0	13.9	10.8	9.3	6.2	4.6
145°	23.2	21.7	20.1	18.6	17.0	13.9	12.4	9.3	7.7	6.2	4.6
147.5°	18.6	18.6	17.0	15.5	13.9	12.4	10.8	9.3	6.2	4.6	3.1
150°	15.5	15.5	13.9	12.4	12.4	10.8	9.3	7.7	6.2	4.6	3.1
152.5°	13.9	12.4	12.4	10.8	10.8	9.3	7.7	6.2	4.6	4.6	3.1
155°	10.8	10.8	10.8	9.3	9.3	7.7	6.2	6.2	4.6	3.1	3.1
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: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	3000.1	2981.5	2997.0	3024.9	3021.8	3018.7	3015.6	3021.8	3041.9	3031.1	3014.0
5°	2995.5	2976.9	2993.9	3020.2	3018.7	3014.0	3010.9	3017.1	3037.2	3026.4	3007.8
7.5°	2986.2	2969.2	2981.5	3007.8	3007.8	3004.8	3001.7	3007.8	3026.4	3017.1	2998.6
10°	2970.7	2958.3	2970.7	2995.5	2997.0	2990.8	2987.7	2995.5	3014.0	3009.4	2993.9
12.5°	2958.3	2946.0	2959.9	2984.6	2986.2	2980.0	2975.4	2984.6	3009.4	3012.5	3007.8
15°	2941.3	2930.5	2947.5	2973.8	2973.8	2969.2	2969.2	2981.5	3015.6	3029.5	3037.2
17.5°	2916.6	2908.8	2928.9	2955.2	2956.8	2953.7	2955.2	2980.0	3024.9	3058.9	3080.6
20°	2885.6	2882.5	2904.2	2932.0	2936.7	2938.2	2946.0	2983.1	3045.0	3091.4	3113.1
22.5°	2848.5	2850.0	2874.8	2904.2	2910.4	2915.0	2930.5	2983.1	3060.5	3110.0	3119.2
25°	2806.7	2811.3	2837.6	2873.2	2881.0	2890.3	2916.6	2984.6	3065.1	3097.6	3082.1
27.5°	2761.8	2771.1	2805.2	2842.3	2851.6	2867.0	2901.1	2975.4	3043.4	3045.0	2987.7
30°	2715.4	2726.2	2766.5	2809.8	2825.3	2840.7	2882.5	2953.7	2990.8	2941.3	2840.7
32.5°	2662.8	2678.3	2718.5	2771.1	2789.7	2809.8	2851.6	2911.9	2898.0	2791.2	2647.3
35°	2596.3	2617.9	2664.4	2726.2	2743.3	2769.6	2799.0	2812.9	2751.0	2599.4	2436.9
37.5°	2514.3	2546.8	2600.9	2672.1	2690.7	2707.7	2715.4	2676.7	2553.0	2388.9	2220.3
40°	2419.9	2469.4	2528.2	2607.1	2625.7	2625.7	2597.8	2515.8	2359.6	2144.5	1957.3
42.5°	2305.4	2365.7	2440.0	2518.9	2537.5	2515.8	2449.3	2305.4	2127.5	1887.6	1689.6
45°	2166.1	2246.6	2330.2	2412.2	2421.4	2373.5	2254.3	2071.8	1852.1	1629.3	1440.5
47.5°	2000.6	2105.8	2197.1	2289.9	2277.5	2197.1	2037.7	1830.4	1598.3	1387.9	1236.2
50°	1814.9	1938.7	2040.8	2129.0	2102.7	1991.3	1804.1	1587.5	1356.9	1177.5	1052.1
52.5°	1616.9	1759.2	1861.3	1932.5	1896.9	1763.9	1558.1	1350.7	1162.0	998.0	914.4
55°	1411.1	1555.0	1660.2	1715.9	1669.5	1525.6	1322.9	1134.1	956.2	849.4	799.9
57.5°	1211.5	1346.1	1445.1	1490.0	1431.2	1287.3	1100.1	940.7	812.3	722.6	697.8
60°	1019.6	1129.5	1223.9	1257.9	1194.5	1061.4	900.5	773.6	679.2	617.4	605.0
62.5°	841.7	931.4	1005.7	1032.0	970.1	866.5	727.2	632.8	566.3	535.3	519.9
65°	694.7	747.3	823.1	818.5	781.4	685.4	583.3	516.8	473.5	453.3	444.1
67.5°	546.2	594.1	642.1	648.3	601.9	535.3	468.8	420.9	397.6	386.8	382.2
70°	422.4	458.0	487.4	479.6	454.9	413.1	371.3	345.0	335.8	331.1	331.1
72.5°	328.0	346.6	360.5	351.2	335.8	314.1	294.0	283.1	284.7	287.8	290.9
75°	253.7	258.4	261.5	252.2	249.1	235.2	233.6	235.2	244.5	253.7	258.4
77.5°	195.0	188.8	184.1	174.8	176.4	174.8	182.6	195.0	208.9	222.8	235.2
80°	150.1	136.2	125.3	116.0	120.7	128.4	143.9	162.5	181.0	196.5	212.0
82.5°	116.0	95.9	80.5	71.2	80.5	92.8	112.9	136.2	157.8	174.8	191.9
85°	89.7	66.5	48.0	38.7	48.0	66.5	88.2	114.5	137.7	156.3	173.3
87.5°	69.6	48.0	26.3	15.5	26.3	46.4	71.2	95.9	119.1	140.8	157.8
90°	55.7	32.5	12.4	3.1	13.9	32.5	55.7	80.5	103.7	126.9	143.9
92.5°	44.9	23.2	6.2	0.0	7.7	24.8	46.4	69.6	92.8	114.5	131.5
95°	37.1	18.6	4.6	0.0	6.2	18.6	37.1	60.3	82.0	103.7	117.6
97.5°	30.9	13.9	3.1	0.0	3.1	15.5	30.9	51.1	72.7	92.8	106.8
100°	26.3	12.4	3.1	0.0	3.1	12.4	26.3	44.9	63.4	82.0	95.9
102.5°	21.7	9.3	1.5	1.5	1.5	9.3	23.2	38.7	55.7	72.7	86.6
105°	20.1	7.7	1.5	1.5	1.5	7.7	20.1	34.0	49.5	65.0	77.4
107.5°	17.0	6.2	1.5	1.5	1.5	6.2	17.0	29.4	44.9	58.8	69.6
110°	13.9	6.2	1.5	1.5	1.5	6.2	13.9	26.3	38.7	51.1	61.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.4	4.6	1.5	1.5	1.5	4.6	12.4	23.2	34.0	46.4	55.7
115°	10.8	4.6	1.5	1.5	1.5	4.6	10.8	20.1	29.4	40.2	49.5
117.5°	9.3	4.6	1.5	1.5	1.5	3.1	9.3	17.0	26.3	35.6	44.9
120°	7.7	3.1	1.5	1.5	1.5	3.1	7.7	15.5	23.2	30.9	38.7
122.5°	7.7	3.1	1.5	1.5	1.5	3.1	6.2	12.4	20.1	26.3	34.0
125°	6.2	3.1	1.5	1.5	1.5	1.5	6.2	10.8	17.0	23.2	29.4
127.5°	6.2	3.1	1.5	1.5	1.5	1.5	4.6	9.3	13.9	20.1	26.3
130°	4.6	3.1	1.5	1.5	1.5	1.5	3.1	7.7	12.4	17.0	21.7
132.5°	4.6	3.1	1.5	1.5	1.5	1.5	3.1	6.2	9.3	13.9	18.6
135°	4.6	1.5	1.5	1.5	1.5	1.5	1.5	4.6	7.7	10.8	13.9
137.5°	3.1	1.5	1.5	1.5	1.5	1.5	1.5	3.1	6.2	7.7	12.4
140°	3.1	1.5	1.5	1.5	1.5	1.5	1.5	3.1	4.6	6.2	9.3
142.5°	3.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	4.6	7.7
145°	3.1	1.5	1.5	3.1	3.1	1.5	1.5	3.1	3.1	4.6	6.2
147.5°	3.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	4.6
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	3010.9	2975.4	2993.9	2987.7	2993.9	3009.4	3007.8	3003.2	3006.3	2998.6	2990.8
5°	3004.8	2969.2	2987.7	2980.0	2987.7	3003.2	3000.1	2995.5	3000.1	2990.8	2983.1
7.5°	2997.0	2964.5	2986.2	2984.6	2998.6	3018.7	3020.2	3020.2	3031.1	3017.1	3010.9
10°	2997.0	2980.0	3009.4	3020.2	3055.8	3082.1	3085.2	3091.4	3110.0	3106.9	3091.4
12.5°	3029.5	3026.4	3069.7	3096.0	3128.5	3165.7	3185.8	3192.0	3204.3	3195.1	3188.9
15°	3071.3	3086.8	3134.7	3164.1	3199.7	3227.6	3232.2	3235.3	3244.6	3230.6	3219.8
17.5°	3127.0	3136.3	3174.9	3187.3	3210.5	3215.2	3209.0	3193.5	3193.5	3162.6	3153.3
20°	3153.3	3148.6	3164.1	3144.0	3134.7	3106.9	3080.6	3051.2	3049.6	3017.1	3014.0
22.5°	3130.1	3099.1	3066.6	3017.1	2995.5	2955.2	2919.7	2902.6	2891.8	2850.0	2839.2
25°	3048.1	2972.3	2924.3	2865.5	2812.9	2766.5	2732.4	2696.8	2662.8	2628.8	2613.3
27.5°	2905.7	2834.6	2757.2	2675.2	2602.5	2531.3	2474.0	2438.5	2406.0	2361.1	2337.9
30°	2730.9	2631.9	2546.8	2467.9	2348.7	2262.1	2214.1	2142.9	2118.2	2098.1	2054.7
32.5°	2525.1	2406.0	2289.9	2183.2	2060.9	1980.5	1917.0	1864.4	1849.0	1796.4	1784.0
35°	2297.7	2141.4	2009.9	1904.7	1816.5	1719.0	1666.4	1630.8	1599.9	1564.3	1558.1
37.5°	2030.0	1889.2	1740.7	1647.8	1578.2	1494.6	1454.4	1429.7	1415.7	1389.4	1384.8
40°	1760.8	1620.0	1517.8	1425.0	1381.7	1336.8	1307.4	1296.6	1290.4	1281.1	1271.8
42.5°	1516.3	1392.5	1319.8	1257.9	1239.3	1217.7	1209.9	1216.1	1209.9	1206.9	1205.3
45°	1309.0	1214.6	1163.5	1145.0	1140.3	1134.1	1140.3	1151.2	1152.7	1149.6	1149.6
47.5°	1120.2	1075.3	1053.7	1056.8	1064.5	1069.1	1080.0	1093.9	1097.0	1089.3	1092.4
50°	996.4	970.1	965.5	977.9	994.9	1001.1	1013.4	1024.3	1022.7	1019.6	1016.5
52.5°	880.4	872.6	885.0	897.4	916.0	919.1	923.7	928.3	926.8	920.6	917.5
55°	782.9	789.1	799.9	804.6	818.5	816.9	818.5	818.5	812.3	809.2	804.6
57.5°	694.7	696.3	702.4	704.0	711.7	708.6	707.1	704.0	694.7	693.2	688.5
60°	605.0	601.9	615.8	605.0	611.2	605.0	603.4	595.7	586.4	584.9	581.8
62.5°	519.9	513.7	523.0	518.3	521.4	515.2	512.1	502.9	495.1	493.6	492.0
65°	444.1	441.0	450.2	448.7	451.8	444.1	441.0	434.8	428.6	427.0	425.5
67.5°	380.6	388.4	393.0	393.0	396.1	394.5	386.8	385.3	383.7	377.5	377.5
70°	334.2	338.8	348.1	349.7	348.1	351.2	345.0	343.5	341.9	338.8	337.3
72.5°	297.1	303.3	312.5	314.1	312.5	312.5	309.4	307.9	307.9	303.3	303.3
75°	267.7	275.4	283.1	283.1	283.1	280.1	277.0	277.0	273.9	272.3	269.2
77.5°	242.9	252.2	258.4	256.8	255.3	252.2	252.2	247.6	242.9	242.9	239.8
80°	224.4	230.5	235.2	233.6	232.1	227.4	225.9	221.3	218.2	213.5	213.5
82.5°	204.2	212.0	215.1	213.5	210.4	205.8	204.2	201.1	198.0	196.5	193.4
85°	187.2	195.0	196.5	193.4	190.3	187.2	185.7	184.1	182.6	179.5	179.5
87.5°	170.2	177.9	177.9	176.4	173.3	171.7	170.2	168.6	167.1	165.6	164.0
90°	156.3	162.5	162.5	160.9	159.4	157.8	156.3	154.7	153.2	151.6	151.6
92.5°	142.3	148.5	148.5	147.0	145.4	143.9	143.9	142.3	140.8	139.3	137.7
95°	130.0	136.2	136.2	136.2	134.6	133.1	133.1	131.5	130.0	130.0	128.4
97.5°	117.6	123.8	123.8	123.8	122.2	120.7	120.7	119.1	119.1	119.1	117.6
100°	106.8	111.4	112.9	112.9	111.4	111.4	111.4	109.9	109.9	109.9	108.3
102.5°	95.9	100.6	103.7	103.7	103.7	102.1	102.1	102.1	102.1	102.1	100.6
105°	86.6	91.3	94.4	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
107.5°	78.9	83.6	86.6	88.2	89.7	89.7	91.3	91.3	91.3	91.3	91.3
110°	71.2	75.8	80.5	82.0	83.6	85.1	85.1	86.6	85.1	85.1	85.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	63.4	69.6	72.7	75.8	77.4	78.9	80.5	80.5	80.5	80.5	80.5
115°	57.2	63.4	66.5	69.6	72.7	74.3	74.3	75.8	75.8	75.8	74.3
117.5°	51.1	57.2	60.3	63.4	65.0	68.1	69.6	69.6	69.6	69.6	68.1
120°	46.4	51.1	54.2	57.2	60.3	61.9	63.4	63.4	63.4	63.4	63.4
122.5°	40.2	44.9	49.5	52.6	54.2	55.7	57.2	57.2	57.2	57.2	57.2
125°	35.6	40.2	43.3	46.4	48.0	51.1	51.1	51.1	51.1	51.1	51.1
127.5°	30.9	35.6	38.7	41.8	43.3	44.9	46.4	46.4	46.4	46.4	46.4
130°	26.3	30.9	34.0	37.1	38.7	40.2	40.2	41.8	41.8	41.8	41.8
132.5°	23.2	26.3	29.4	32.5	34.0	35.6	35.6	37.1	37.1	37.1	37.1
135°	18.6	23.2	24.8	27.9	29.4	30.9	30.9	32.5	32.5	32.5	32.5
137.5°	15.5	18.6	21.7	24.8	26.3	26.3	27.9	27.9	29.4	29.4	29.4
140°	12.4	13.9	18.6	20.1	21.7	23.2	24.8	24.8	24.8	24.8	24.8
142.5°	9.3	12.4	13.9	17.0	18.6	20.1	21.7	21.7	21.7	21.7	21.7
145°	7.7	9.3	10.8	13.9	15.5	17.0	18.6	18.6	18.6	18.6	18.6
147.5°	6.2	7.7	9.3	10.8	12.4	13.9	15.5	15.5	15.5	15.5	15.5
150°	4.6	6.2	7.7	7.7	9.3	10.8	12.4	13.9	13.9	13.9	13.9
152.5°	4.6	4.6	6.2	6.2	7.7	9.3	10.8	10.8	10.8	10.8	10.8
155°	3.1	4.6	4.6	4.6	6.2	6.2	7.7	9.3	9.3	9.3	9.3
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: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	2995.5	3001.7	2998.6	2993.9	2992.4	3000.1	2992.4	2956.8	2970.7	2972.3	2983.1
5°	2990.8	2995.5	2992.4	2989.3	2984.6	2993.9	2984.6	2947.5	2961.4	2963.0	2973.8
7.5°	3021.8	3023.3	3023.3	3015.6	3003.2	3007.8	2995.5	2953.7	2961.4	2961.4	2969.2
10°	3099.1	3102.2	3106.9	3086.8	3071.3	3058.9	3041.9	2990.8	2989.3	2976.9	2976.9
12.5°	3199.7	3192.0	3184.2	3174.9	3162.6	3147.1	3122.3	3062.0	3041.9	3021.8	3001.7
15°	3229.1	3226.0	3224.5	3219.8	3212.1	3207.4	3188.9	3128.5	3099.1	3074.4	3038.8
17.5°	3151.7	3157.9	3178.0	3179.6	3188.9	3207.4	3204.3	3162.6	3136.3	3125.4	3082.1
20°	3012.5	3014.0	3038.8	3049.6	3089.9	3120.8	3144.0	3139.4	3133.2	3145.6	3113.1
22.5°	2845.4	2856.2	2882.5	2899.5	2938.2	2973.8	3010.9	3031.1	3063.5	3114.6	3108.4
25°	2617.9	2631.9	2669.0	2696.8	2751.0	2805.2	2854.7	2890.3	2928.9	3026.4	3058.9
27.5°	2345.6	2367.3	2415.3	2443.1	2518.9	2574.6	2645.8	2715.4	2769.6	2881.0	2947.5
30°	2059.4	2078.0	2129.0	2167.7	2232.7	2308.5	2398.2	2497.3	2587.0	2699.9	2783.5
32.5°	1791.7	1811.8	1853.6	1887.6	1960.4	2023.8	2122.8	2245.1	2328.6	2484.9	2596.3
35°	1558.1	1576.6	1606.0	1635.4	1695.8	1760.8	1845.9	1965.0	2071.8	2234.2	2375.0
37.5°	1394.1	1397.2	1414.2	1431.2	1476.1	1525.6	1592.1	1697.3	1796.4	1971.2	2125.9
40°	1276.5	1276.5	1285.8	1290.4	1310.5	1339.9	1381.7	1463.7	1545.7	1678.8	1867.5
42.5°	1203.8	1200.7	1200.7	1202.2	1200.7	1214.6	1239.3	1278.0	1350.7	1460.6	1607.6
45°	1149.6	1143.4	1138.8	1127.9	1121.8	1121.8	1123.3	1137.2	1179.0	1250.2	1369.3
47.5°	1089.3	1087.7	1080.0	1067.6	1056.8	1049.0	1036.7	1032.0	1044.4	1084.6	1165.1
50°	1019.6	1011.9	1004.2	994.9	982.5	974.8	951.6	953.1	942.3	960.8	1002.6
52.5°	917.5	911.3	908.2	900.5	895.9	892.8	874.2	855.6	851.0	854.1	869.6
55°	804.6	807.7	795.3	801.5	799.9	786.0	778.3	764.3	759.7	758.2	765.9
57.5°	687.0	690.1	682.3	688.5	688.5	680.8	676.1	676.1	665.3	656.0	666.9
60°	580.2	574.0	578.7	586.4	586.4	581.8	578.7	578.7	570.9	567.8	575.6
62.5°	493.6	487.4	492.0	499.8	501.3	498.2	495.1	495.1	485.8	485.8	492.0
65°	427.0	428.6	427.0	433.2	433.2	434.8	431.7	428.6	417.8	422.4	420.9
67.5°	379.1	377.5	377.5	383.7	382.2	385.3	382.2	377.5	369.8	363.6	362.1
70°	338.8	337.3	337.3	340.4	341.9	341.9	340.4	337.3	326.5	320.3	315.6
72.5°	303.3	301.7	303.3	304.8	306.4	307.9	306.4	303.3	294.0	286.2	278.5
75°	270.8	269.2	273.9	273.9	275.4	275.4	277.0	275.4	267.7	258.4	249.1
77.5°	238.3	239.8	244.5	246.0	249.1	250.7	252.2	252.2	244.5	236.7	224.4
80°	212.0	215.1	218.2	219.7	222.8	227.4	229.0	230.5	224.4	216.6	202.7
82.5°	193.4	195.0	198.0	199.6	204.2	205.8	207.3	210.4	207.3	199.6	184.1
85°	177.9	179.5	182.6	182.6	185.7	188.8	190.3	191.9	190.3	182.6	167.1
87.5°	164.0	165.6	167.1	168.6	170.2	171.7	173.3	174.8	173.3	165.6	151.6
90°	151.6	151.6	153.2	153.2	154.7	156.3	159.4	159.4	157.8	151.6	137.7
92.5°	137.7	139.3	139.3	140.8	142.3	143.9	145.4	145.4	143.9	137.7	125.3
95°	128.4	128.4	130.0	130.0	131.5	131.5	133.1	133.1	131.5	125.3	112.9
97.5°	117.6	117.6	117.6	117.6	119.1	119.1	120.7	120.7	119.1	112.9	102.1
100°	108.3	108.3	108.3	108.3	108.3	109.9	109.9	109.9	108.3	102.1	91.3
102.5°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	97.5	92.8	82.0
105°	95.9	95.9	95.9	94.4	94.4	94.4	92.8	92.8	88.2	83.6	74.3
107.5°	89.7	89.7	89.7	88.2	88.2	86.6	85.1	85.1	80.5	75.8	66.5
110°	85.1	85.1	85.1	83.6	82.0	80.5	78.9	77.4	72.7	66.5	58.8





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	80.5	80.5	78.9	78.9	77.4	75.8	72.7	71.2	66.5	60.3	52.6
115°	74.3	74.3	74.3	72.7	71.2	69.6	68.1	65.0	60.3	54.2	46.4
117.5°	68.1	68.1	68.1	66.5	65.0	63.4	61.9	58.8	54.2	48.0	41.8
120°	61.9	61.9	61.9	60.3	58.8	57.2	55.7	52.6	48.0	43.3	35.6
122.5°	57.2	57.2	55.7	54.2	52.6	51.1	49.5	46.4	43.3	37.1	30.9
125°	51.1	51.1	49.5	49.5	48.0	46.4	44.9	41.8	37.1	32.5	27.9
127.5°	46.4	44.9	44.9	44.9	43.3	41.8	38.7	37.1	32.5	27.9	23.2
130°	40.2	40.2	40.2	38.7	38.7	37.1	34.0	30.9	27.9	24.8	20.1
132.5°	35.6	35.6	35.6	35.6	34.0	32.5	29.4	27.9	24.8	20.1	17.0
135°	32.5	32.5	30.9	30.9	29.4	27.9	26.3	23.2	20.1	17.0	13.9
137.5°	27.9	27.9	27.9	26.3	26.3	24.8	21.7	20.1	18.6	15.5	12.4
140°	24.8	24.8	23.2	23.2	21.7	21.7	20.1	17.0	15.5	12.4	10.8
142.5°	21.7	21.7	20.1	20.1	18.6	18.6	17.0	15.5	12.4	10.8	7.7
145°	18.6	18.6	17.0	17.0	17.0	15.5	13.9	12.4	10.8	9.3	7.7
147.5°	15.5	15.5	15.5	13.9	13.9	12.4	12.4	10.8	9.3	7.7	6.2
150°	13.9	13.9	12.4	12.4	12.4	10.8	9.3	9.3	7.7	6.2	4.6
152.5°	10.8	10.8	10.8	10.8	9.3	9.3	7.7	7.7	6.2	4.6	4.6
155°	9.3	9.3	9.3	7.7	7.7	7.7	6.2	6.2	4.6	4.6	3.1
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: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	2978.4	2976.9	2990.8	2989.3	2970.7	2998.6	3017.1
5°	2970.7	2969.2	2981.5	2984.6	2964.5	2993.9	3014.0
7.5°	2964.5	2963.0	2976.9	2981.5	2961.4	2987.7	3009.4
10°	2966.1	2958.3	2970.7	2973.8	2955.2	2983.1	3001.7
12.5°	2976.9	2958.3	2963.0	2963.0	2946.0	2970.7	2990.8
15°	3003.2	2964.5	2958.3	2953.7	2932.0	2955.2	2975.4
17.5°	3032.6	2980.0	2958.3	2942.9	2916.6	2936.7	2958.3
20°	3062.0	2997.0	2961.4	2936.7	2901.1	2919.7	2935.1
22.5°	3075.9	3012.5	2964.5	2927.4	2882.5	2891.8	2908.8
25°	3057.4	3006.3	2958.3	2913.5	2859.3	2860.9	2874.8
27.5°	2989.3	2975.4	2944.4	2899.5	2840.7	2833.0	2843.8
30°	2873.2	2911.9	2913.5	2881.0	2819.1	2803.6	2808.3
32.5°	2710.8	2797.4	2848.5	2842.3	2788.1	2766.5	2769.6
35°	2523.6	2631.9	2743.3	2780.4	2741.7	2724.7	2718.5
37.5°	2299.2	2444.6	2593.2	2684.5	2678.3	2667.5	2661.3
40°	2051.6	2226.5	2402.9	2548.3	2593.2	2593.2	2596.3
42.5°	1787.1	1991.3	2184.7	2368.8	2474.0	2497.3	2506.5
45°	1531.8	1737.6	1948.0	2160.0	2300.8	2373.5	2399.8
47.5°	1299.7	1507.0	1706.6	1938.7	2125.9	2220.3	2262.1
50°	1101.6	1256.4	1466.8	1697.3	1901.6	2017.6	2099.6
52.5°	937.6	1058.3	1242.4	1457.5	1663.3	1822.7	1898.5
55°	799.9	881.9	1038.2	1223.9	1420.4	1585.9	1674.1
57.5°	683.9	748.9	855.6	1010.4	1175.9	1339.9	1434.3
60°	581.8	626.6	699.4	821.6	962.4	1103.2	1194.5
62.5°	493.6	523.0	570.9	660.7	770.5	880.4	965.5
65°	425.5	437.9	464.2	519.9	603.4	687.0	759.7
67.5°	359.0	366.7	386.8	420.9	462.6	523.0	570.9
70°	309.4	309.4	311.0	331.1	352.8	391.5	425.5
72.5°	269.2	264.6	255.3	259.9	264.6	286.2	307.9
75°	236.7	225.9	210.4	204.2	201.1	204.2	216.6
77.5°	208.9	193.4	174.8	159.4	147.0	142.3	153.2
80°	185.7	167.1	145.4	125.3	105.2	94.4	99.0
82.5°	167.1	143.9	120.7	97.5	74.3	58.8	58.8
85°	147.0	125.3	100.6	75.8	52.6	32.5	29.4
87.5°	133.1	109.9	83.6	60.3	37.1	17.0	9.3
90°	119.1	95.9	71.2	48.0	26.3	7.7	0.0
92.5°	106.8	85.1	61.9	38.7	18.6	4.6	0.0
95°	95.9	75.8	52.6	32.5	15.5	3.1	1.5
97.5°	85.1	66.5	46.4	26.3	10.8	3.1	1.5
100°	77.4	58.8	40.2	21.7	9.3	1.5	1.5
102.5°	68.1	52.6	34.0	18.6	7.7	1.5	1.5
105°	60.3	46.4	29.4	15.5	6.2	1.5	1.5
107.5°	54.2	40.2	26.3	13.9	6.2	1.5	1.5
110°	48.0	35.6	23.2	12.4	4.6	1.5	1.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	43.3	30.9	20.1	10.8	3.1	1.5	1.5
115°	37.1	27.9	17.0	9.3	3.1	1.5	1.5
117.5°	32.5	23.2	15.5	7.7	3.1	1.5	1.5
120°	27.9	20.1	12.4	6.2	1.5	1.5	1.5
122.5°	24.8	17.0	10.8	6.2	1.5	1.5	1.5
125°	21.7	15.5	9.3	4.6	1.5	1.5	1.5
127.5°	18.6	12.4	7.7	3.1	1.5	1.5	1.5
130°	15.5	10.8	6.2	3.1	1.5	1.5	1.5
132.5°	12.4	9.3	6.2	3.1	1.5	1.5	1.5
135°	10.8	7.7	4.6	3.1	1.5	1.5	1.5
137.5°	9.3	6.2	3.1	3.1	3.1	1.5	1.5
140°	7.7	4.6	3.1	3.1	3.1	3.1	1.5
142.5°	6.2	4.6	3.1	3.1	3.1	3.1	1.5
145°	4.6	3.1	3.1	3.1	3.1	3.1	1.5
147.5°	4.6	3.1	3.1	3.1	3.1	3.1	1.5
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)