

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-L935-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-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

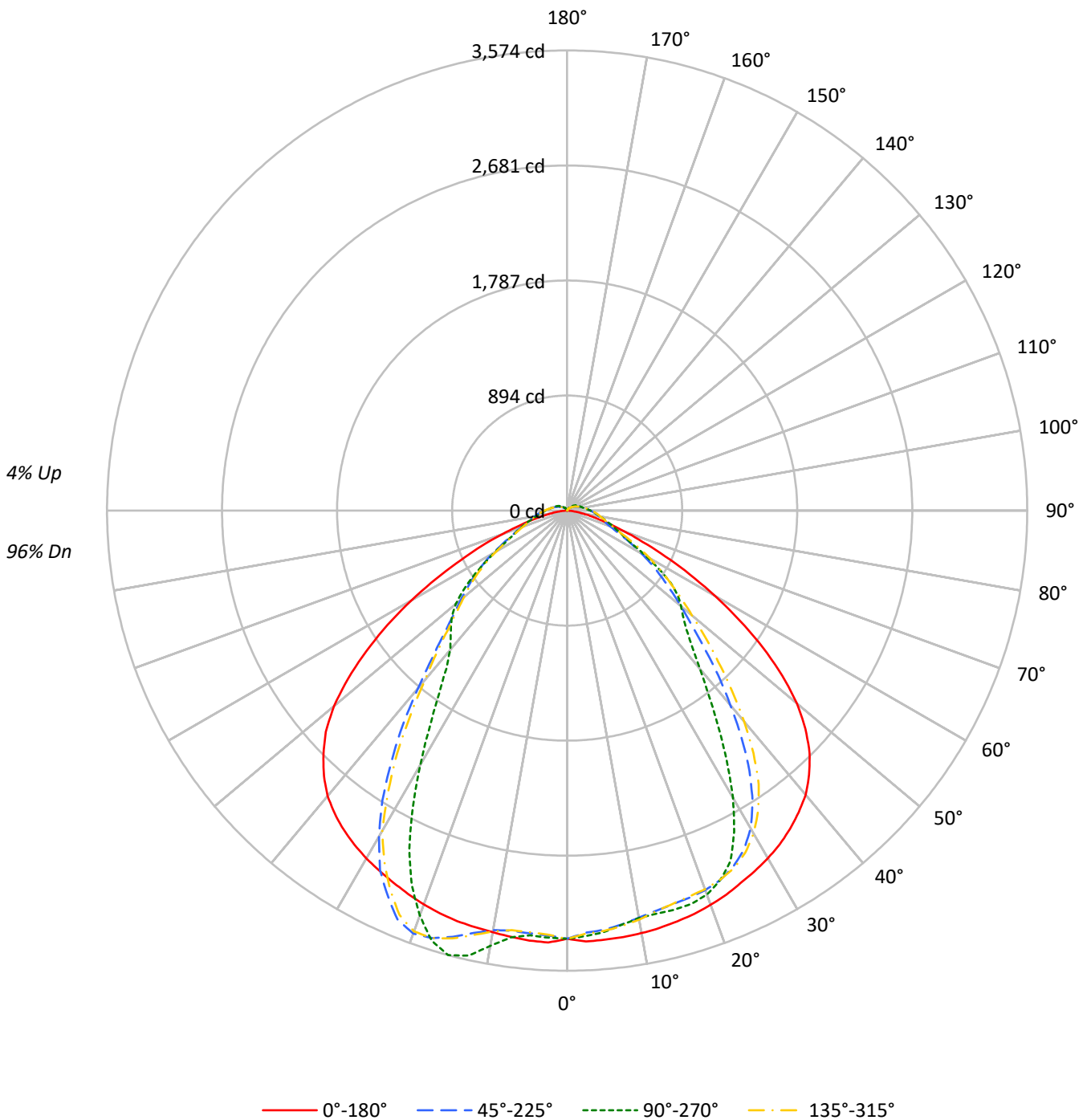
Lumens per Lamp: N/A
Luminaire Lumens: 7927.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	13435	13435	13435	13435
5°	13552	12903	13580	13004
10°	13633	12366	13605	13206
15°	13758	12201	13751	13585
20°	13930	12007	13916	12657
25°	14124	11391	14117	11006
30°	14414	9872	14422	8746
35°	14724	7983	14766	6756
40°	15004	6428	15067	5663
45°	14988	5445	15065	5302
50°	14383	5013	14584	4901
55°	12806	4505	13125	4096
60°	10432	3449	10987	3163
65°	7801	2638	8405	2502
70°	5350	2277	6031	2177
75°	3548	2055	4130	1944
80°	2349	1916	2753	1762
85°	1282	1911	1687	1746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	4.0
10°-20°	939.8	11.9
20°-30°	1428.7	18.0
30°-40°	1532.7	19.3
40°-50°	1330.2	16.8
50°-60°	985.8	12.4
60°-70°	564.8	7.1
70°-80°	312.8	3.9
80°-90°	190.5	2.4
90°-100°	123.9	1.6
100°-110°	82.9	1.0
110°-120°	56.0	0.7
120°-130°	34.4	0.4
130°-140°	18.1	0.2
140°-150°	8.2	0.1
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2684.3	33.9
0°-40°	4217.0	53.2
0°-60°	6533.0	82.4
0°-90°	7601.1	95.9
90°-120°	262.8	3.3
90°-150°	323.5	4.1
90°-180°	326.0	4.1
0°-180°	7927.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3325	3325	3325	3325	3325	
5°	3346	3286	3353	3311	3346	319
15°	3303	3210	3301	3574	3303	935
25°	3191	3002	3190	2901	3191	1475
35°	3018	2044	3026	1730	3018	1889
45°	2664	1310	2678	1276	2664	2039
55°	1858	982	1905	893	1858	1648
65°	843	498	909	472	843	850
75°	240	316	280	299	240	275
85°	33	218	43	199	33	43
90°	0	182	3	168	0	1
95°	2	149	0	143	2	1
105°	2	112	2	106	2	2
115°	2	91	2	82	2	2
125°	2	69	2	57	2	2
135°	2	43	2	36	2	1
145°	2	26	3	21	2	1
155°	3	12	3	10	3	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°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3349.2	3340.6	3337.2	3330.3	3335.5	3356.1	3342.4	3320.0	3321.7	3282.2	3302.8
5°	3345.8	3335.5	3330.3	3323.5	3326.9	3345.8	3332.0	3309.7	3308.0	3268.5	3287.4
7.5°	3340.6	3330.3	3321.7	3316.6	3318.3	3333.8	3316.6	3290.8	3285.7	3242.7	3259.9
10°	3332.0	3325.2	3313.2	3304.6	3302.8	3320.0	3292.5	3266.8	3254.8	3210.1	3227.3
12.5°	3320.0	3309.7	3297.7	3282.2	3280.5	3290.8	3268.5	3232.4	3220.4	3184.3	3203.2
15°	3302.8	3290.8	3277.1	3259.9	3251.3	3258.2	3230.7	3198.1	3196.4	3165.4	3191.2
17.5°	3284.0	3266.8	3251.3	3227.3	3215.3	3220.4	3198.1	3168.9	3172.3	3153.4	3182.6
20°	3258.2	3239.3	3215.3	3191.2	3174.0	3182.6	3167.2	3144.8	3150.0	3136.2	3162.0
22.5°	3229.0	3203.2	3174.0	3146.6	3132.8	3144.8	3132.8	3113.9	3115.6	3107.0	3122.5
25°	3191.2	3162.0	3127.7	3093.3	3086.4	3095.0	3088.2	3072.7	3065.8	3052.1	3059.0
27.5°	3156.9	3124.2	3081.3	3045.2	3033.2	3050.4	3034.9	3009.1	2990.3	2971.4	2957.6
30°	3117.4	3077.8	3029.8	2988.5	2978.2	2985.1	2962.8	2923.3	2873.5	2849.4	2811.6
32.5°	3074.4	3022.9	2962.8	2916.4	2909.5	2904.4	2863.2	2806.5	2729.2	2681.1	2622.7
35°	3017.7	2961.1	2888.9	2832.2	2821.9	2792.7	2725.8	2650.2	2550.6	2468.1	2368.5
37.5°	2954.2	2887.2	2811.6	2736.1	2706.9	2648.5	2554.0	2475.0	2323.8	2224.2	2104.0
40°	2882.0	2801.3	2708.6	2617.5	2569.5	2475.0	2366.8	2250.0	2104.0	1970.0	1868.7
42.5°	2782.4	2696.6	2586.6	2485.3	2402.9	2277.5	2150.4	1985.5	1851.5	1738.2	1635.1
45°	2663.9	2560.9	2433.8	2311.8	2207.1	2057.6	1908.2	1743.3	1631.7	1499.4	1429.0
47.5°	2511.1	2399.4	2263.7	2128.0	1990.6	1825.8	1669.5	1511.4	1399.8	1305.3	1253.8
50°	2330.7	2227.7	2078.2	1916.8	1765.6	1593.9	1437.6	1319.1	1210.9	1152.5	1113.0
52.5°	2107.4	2011.3	1858.4	1683.2	1537.2	1368.9	1226.3	1130.1	1052.9	1009.9	996.2
55°	1858.4	1774.2	1623.1	1459.9	1310.5	1155.9	1047.7	963.5	913.7	888.0	889.7
57.5°	1592.2	1526.9	1384.3	1238.4	1097.5	980.7	882.8	815.8	778.0	776.3	781.5
60°	1325.9	1277.9	1154.2	1028.8	905.1	810.7	738.5	692.2	668.1	669.8	668.1
62.5°	1071.8	1027.1	937.8	834.7	736.8	673.3	608.0	589.1	568.5	566.8	566.8
65°	843.3	809.0	736.8	663.0	589.1	547.9	515.3	492.9	477.5	474.0	475.8
67.5°	633.8	620.0	570.2	520.4	474.0	448.3	420.8	415.6	403.6	403.6	407.1
70°	472.3	462.0	434.5	405.3	386.4	369.3	355.5	355.5	353.8	352.1	360.7
72.5°	341.8	343.5	334.9	312.6	310.9	307.4	304.0	309.2	310.9	316.0	326.3
75°	240.5	245.6	245.6	242.2	249.0	257.6	262.8	271.4	281.7	288.5	300.6
77.5°	170.0	170.0	178.6	188.9	202.7	218.1	231.9	243.9	257.6	266.2	276.5
80°	109.9	115.1	128.8	147.7	166.6	187.2	206.1	221.6	235.3	249.0	255.9
82.5°	65.3	73.9	91.0	115.1	139.1	164.9	183.8	202.7	218.1	231.9	237.0
85°	32.6	44.7	65.3	91.0	116.8	144.3	168.3	185.5	202.7	214.7	221.6
87.5°	10.3	24.0	46.4	70.4	97.9	125.4	151.1	170.0	185.5	195.8	202.7
90°	0.0	12.0	32.6	58.4	84.2	111.6	135.7	156.3	171.8	180.3	185.5
92.5°	0.0	6.9	25.8	48.1	72.1	99.6	123.7	142.6	156.3	164.9	168.3
95°	1.7	5.2	18.9	39.5	63.5	89.3	111.6	128.8	142.6	151.1	152.9
97.5°	1.7	3.4	15.5	32.6	55.0	79.0	101.3	118.5	128.8	137.4	139.1
100°	1.7	3.4	12.0	29.2	48.1	70.4	91.0	106.5	118.5	125.4	127.1
102.5°	1.7	1.7	10.3	24.0	42.9	61.8	80.7	96.2	106.5	113.4	116.8
105°	1.7	1.7	8.6	20.6	37.8	55.0	72.1	87.6	96.2	103.1	106.5
107.5°	1.7	1.7	6.9	17.2	32.6	48.1	65.3	77.3	87.6	94.5	97.9
110°	1.7	1.7	5.2	15.5	27.5	42.9	56.7	68.7	79.0	85.9	89.3



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CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	1.7	5.2	13.7	24.0	37.8	49.8	61.8	70.4	77.3	82.4
115°	1.7	1.7	5.2	12.0	22.3	32.6	44.7	55.0	63.5	70.4	75.6
117.5°	1.7	1.7	5.2	10.3	18.9	29.2	39.5	49.8	56.7	63.5	68.7
120°	1.7	1.7	3.4	8.6	17.2	25.8	34.4	42.9	51.5	58.4	63.5
122.5°	1.7	1.7	3.4	8.6	13.7	22.3	30.9	37.8	46.4	51.5	56.7
125°	1.7	1.7	3.4	6.9	12.0	20.6	27.5	34.4	39.5	46.4	51.5
127.5°	1.7	1.7	3.4	6.9	10.3	17.2	24.0	30.9	36.1	41.2	44.7
130°	1.7	1.7	3.4	5.2	8.6	13.7	20.6	25.8	32.6	36.1	39.5
132.5°	1.7	1.7	1.7	5.2	6.9	10.3	15.5	22.3	27.5	32.6	34.4
135°	1.7	1.7	1.7	3.4	6.9	8.6	12.0	17.2	22.3	27.5	30.9
137.5°	1.7	1.7	1.7	3.4	5.2	8.6	10.3	13.7	18.9	22.3	27.5
140°	1.7	1.7	1.7	3.4	5.2	6.9	8.6	12.0	15.5	18.9	22.3
142.5°	1.7	1.7	1.7	3.4	3.4	5.2	6.9	10.3	12.0	15.5	18.9
145°	1.7	1.7	1.7	3.4	3.4	5.2	6.9	8.6	10.3	12.0	15.5
147.5°	1.7	1.7	1.7	3.4	3.4	3.4	5.2	6.9	8.6	10.3	12.0
150°	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2	6.9	8.6	10.3
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2	5.2	6.9	8.6
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2	6.9	6.9
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°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3296.0	3299.4	3320.0	3318.3	3314.9	3311.4	3311.4	3308.0	3311.4	3320.0	3316.6
5°	3278.8	3284.0	3299.4	3297.7	3294.3	3292.5	3290.8	3285.7	3289.1	3301.1	3297.7
7.5°	3247.9	3253.0	3266.8	3259.9	3254.8	3258.2	3249.6	3244.5	3251.3	3263.3	3261.6
10°	3215.3	3218.7	3235.9	3232.4	3223.8	3225.6	3217.0	3213.5	3222.1	3229.0	3230.7
12.5°	3192.9	3204.9	3220.4	3218.7	3217.0	3218.7	3210.1	3206.7	3211.8	3218.7	3217.0
15°	3187.8	3203.2	3220.4	3220.4	3222.1	3223.8	3215.3	3210.1	3215.3	3220.4	3218.7
17.5°	3182.6	3201.5	3217.0	3215.3	3217.0	3220.4	3206.7	3203.2	3210.1	3217.0	3213.5
20°	3165.4	3182.6	3192.9	3189.5	3189.5	3191.2	3174.0	3174.0	3184.3	3189.5	3191.2
22.5°	3117.4	3138.0	3138.0	3129.4	3129.4	3122.5	3117.4	3107.0	3119.1	3127.7	3134.5
25°	3045.2	3053.8	3043.5	3024.6	3014.3	3005.7	2981.7	3002.3	3002.3	3028.0	3036.6
27.5°	2943.9	2925.0	2895.8	2856.3	2847.7	2820.2	2804.8	2809.9	2818.5	2854.6	2882.0
30°	2777.3	2720.6	2670.8	2653.6	2615.8	2588.3	2560.9	2574.6	2590.1	2610.7	2667.4
32.5°	2557.4	2502.5	2421.7	2392.5	2353.0	2318.7	2286.1	2306.7	2334.1	2347.9	2409.7
35°	2305.0	2239.7	2165.8	2116.0	2074.8	2055.9	2014.7	2043.9	2073.1	2083.4	2136.6
37.5°	2037.0	1970.0	1904.8	1861.8	1822.3	1810.3	1782.8	1803.4	1825.8	1841.2	1885.9
40°	1782.8	1721.0	1671.2	1642.0	1614.5	1604.2	1593.9	1602.5	1619.6	1631.7	1666.0
42.5°	1564.7	1514.9	1480.5	1463.4	1444.5	1430.7	1432.4	1435.9	1444.5	1470.2	1485.7
45°	1374.0	1344.8	1322.5	1319.1	1307.1	1305.3	1303.6	1310.5	1315.6	1331.1	1343.1
47.5°	1221.2	1209.2	1204.0	1210.9	1216.0	1209.2	1212.6	1221.2	1231.5	1231.5	1229.8
50°	1100.9	1104.4	1111.3	1126.7	1137.0	1140.5	1143.9	1154.2	1155.9	1159.3	1154.2
52.5°	1003.0	1006.5	1025.4	1049.4	1061.4	1066.6	1073.5	1083.8	1083.8	1087.2	1080.3
55°	903.4	908.6	927.5	951.5	961.8	968.7	975.6	982.4	987.6	994.5	989.3
57.5°	793.5	809.0	821.0	827.9	834.7	839.9	845.0	846.8	857.1	858.8	867.4
60°	676.7	680.1	692.2	690.5	685.3	699.0	692.2	704.2	716.2	731.7	733.4
62.5°	565.1	566.8	575.4	571.9	578.8	577.1	582.2	582.2	590.8	597.7	606.3
65°	477.5	479.2	486.1	486.1	484.3	489.5	494.7	498.1	498.1	503.2	510.1
67.5°	412.2	417.4	424.2	427.7	431.1	431.1	436.3	438.0	441.4	443.1	446.6
70°	367.6	374.4	381.3	384.7	386.4	389.9	391.6	391.6	395.0	396.8	400.2
72.5°	334.9	341.8	346.9	346.9	350.4	352.1	352.1	353.8	355.5	359.0	362.4
75°	307.4	312.6	316.0	314.3	314.3	314.3	316.0	316.0	319.5	322.9	326.3
77.5°	281.7	286.8	286.8	283.4	283.4	283.4	283.4	285.1	286.8	290.3	293.7
80°	262.8	262.8	261.1	261.1	257.6	255.9	255.9	257.6	257.6	261.1	266.2
82.5°	242.2	242.2	240.5	238.7	237.0	235.3	235.3	237.0	238.7	240.5	243.9
85°	223.3	223.3	219.8	219.8	218.1	218.1	218.1	218.1	219.8	221.6	225.0
87.5°	204.4	202.7	201.0	199.2	199.2	199.2	199.2	199.2	201.0	204.4	206.1
90°	185.5	183.8	182.1	182.1	180.3	180.3	182.1	182.1	183.8	185.5	187.2
92.5°	168.3	166.6	164.9	164.9	163.2	163.2	164.9	163.2	166.6	166.6	168.3
95°	152.9	151.1	149.4	149.4	149.4	149.4	149.4	149.4	151.1	151.1	152.9
97.5°	139.1	137.4	135.7	135.7	137.4	135.7	137.4	137.4	137.4	139.1	140.8
100°	127.1	125.4	125.4	127.1	125.4	125.4	127.1	127.1	127.1	127.1	128.8
102.5°	116.8	116.8	116.8	116.8	116.8	116.8	118.5	118.5	118.5	118.5	120.2
105°	106.5	108.2	108.2	108.2	109.9	109.9	109.9	111.6	111.6	111.6	111.6
107.5°	99.6	101.3	101.3	103.1	103.1	104.8	104.8	104.8	104.8	106.5	106.5
110°	92.7	94.5	96.2	97.9	97.9	99.6	99.6	99.6	99.6	99.6	99.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	85.9	87.6	89.3	92.7	94.5	94.5	94.5	94.5	96.2	96.2	94.5
115°	79.0	82.4	84.2	87.6	89.3	89.3	91.0	91.0	91.0	91.0	89.3
117.5°	72.1	77.3	79.0	82.4	84.2	84.2	85.9	85.9	85.9	85.9	84.2
120°	67.0	70.4	73.9	75.6	77.3	79.0	79.0	80.7	80.7	80.7	79.0
122.5°	61.8	65.3	68.7	70.4	72.1	73.9	73.9	73.9	73.9	73.9	73.9
125°	55.0	58.4	61.8	63.5	65.3	67.0	67.0	68.7	68.7	68.7	67.0
127.5°	49.8	53.2	55.0	58.4	60.1	60.1	61.8	61.8	61.8	61.8	60.1
130°	42.9	46.4	49.8	51.5	53.2	53.2	55.0	55.0	55.0	55.0	55.0
132.5°	37.8	41.2	42.9	46.4	46.4	48.1	48.1	49.8	49.8	49.8	48.1
135°	34.4	36.1	37.8	41.2	41.2	42.9	42.9	42.9	42.9	42.9	42.9
137.5°	30.9	32.6	34.4	36.1	36.1	37.8	37.8	37.8	37.8	39.5	37.8
140°	25.8	29.2	30.9	30.9	32.6	32.6	32.6	34.4	34.4	34.4	32.6
142.5°	22.3	24.0	25.8	27.5	29.2	29.2	29.2	29.2	30.9	29.2	29.2
145°	17.2	20.6	22.3	24.0	25.8	25.8	25.8	25.8	25.8	25.8	25.8
147.5°	13.7	15.5	18.9	20.6	20.6	22.3	22.3	22.3	22.3	22.3	22.3
150°	12.0	12.0	15.5	17.2	18.9	18.9	18.9	18.9	18.9	18.9	18.9
152.5°	8.6	10.3	12.0	13.7	15.5	15.5	15.5	15.5	15.5	15.5	15.5
155°	8.6	8.6	10.3	10.3	12.0	12.0	12.0	12.0	13.7	12.0	12.0
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3311.4	3309.7	3316.6	3309.7	3275.4	3289.1	3284.0	3302.8	3304.6	3309.7	3326.9
5°	3294.3	3294.3	3302.8	3296.0	3263.3	3277.1	3275.4	3294.3	3297.7	3301.1	3320.0
7.5°	3259.9	3261.6	3273.6	3268.5	3234.1	3254.8	3253.0	3275.4	3282.2	3289.1	3306.3
10°	3227.3	3225.6	3239.3	3234.1	3201.5	3225.6	3223.8	3246.2	3256.5	3268.5	3289.1
12.5°	3210.1	3204.9	3210.1	3204.9	3168.9	3187.8	3189.5	3215.3	3227.3	3242.7	3266.8
15°	3210.1	3201.5	3201.5	3191.2	3150.0	3162.0	3163.7	3180.9	3196.4	3211.8	3241.0
17.5°	3206.7	3198.1	3196.4	3187.8	3143.1	3143.1	3141.4	3153.4	3162.0	3177.5	3208.4
20°	3187.8	3184.3	3182.6	3177.5	3136.2	3129.4	3125.9	3125.9	3131.1	3136.2	3167.2
22.5°	3138.0	3141.4	3144.8	3148.3	3115.6	3103.6	3105.3	3101.9	3096.7	3096.7	3122.5
25°	3045.2	3062.4	3076.1	3091.6	3072.7	3064.1	3074.4	3069.3	3060.7	3053.8	3076.1
27.5°	2897.5	2933.6	2962.8	3000.6	3002.3	2995.4	3022.9	3019.5	3017.7	3007.4	3024.6
30°	2693.1	2749.8	2789.3	2844.3	2890.6	2897.5	2943.9	2950.7	2957.6	2952.5	2969.6
32.5°	2445.8	2523.1	2590.1	2675.9	2720.6	2760.1	2825.4	2852.8	2880.3	2888.9	2907.8
35°	2176.1	2263.7	2342.7	2437.2	2507.6	2593.5	2672.5	2713.7	2775.6	2799.6	2827.1
37.5°	1920.2	2002.7	2080.0	2174.4	2287.8	2377.1	2475.0	2567.7	2651.9	2686.2	2727.5
40°	1693.5	1760.5	1834.3	1916.8	2019.8	2136.6	2243.1	2371.9	2471.6	2540.3	2600.4
42.5°	1521.7	1554.4	1617.9	1691.8	1774.2	1892.7	2000.9	2145.2	2265.4	2363.3	2463.0
45°	1368.9	1384.3	1430.7	1470.2	1554.4	1659.2	1774.2	1915.1	2040.4	2165.8	2286.1
47.5°	1238.4	1257.2	1279.6	1303.6	1363.7	1451.3	1550.9	1678.0	1803.4	1949.4	2086.8
50°	1150.8	1155.9	1159.3	1169.7	1205.7	1265.8	1346.6	1454.8	1575.0	1731.3	1877.3
52.5°	1073.5	1073.5	1063.2	1058.0	1071.8	1109.5	1155.9	1233.2	1356.9	1501.1	1655.7
55°	991.0	975.6	972.1	955.0	958.4	975.6	997.9	1058.0	1159.3	1283.0	1432.4
57.5°	876.0	869.1	869.1	862.2	848.5	857.1	862.2	905.1	977.3	1083.8	1214.3
60°	743.7	740.3	748.9	750.6	738.5	743.7	742.0	767.7	819.3	905.1	1013.4
62.5°	611.4	626.9	628.6	635.5	628.6	626.9	635.5	657.8	683.6	748.9	833.0
65°	513.5	522.1	523.9	532.4	529.0	529.0	535.9	553.1	568.5	613.2	678.4
67.5°	450.0	446.6	448.3	453.4	448.3	446.6	451.7	462.0	474.0	501.5	547.9
70°	400.2	396.8	396.8	396.8	389.9	384.7	386.4	389.9	395.0	410.5	439.7
72.5°	362.4	362.4	357.3	352.1	346.9	343.5	340.1	336.6	334.9	340.1	355.5
75°	328.1	329.8	328.1	322.9	316.0	309.2	302.3	295.4	286.8	283.4	285.1
77.5°	297.1	298.9	300.6	298.9	292.0	283.4	273.1	262.8	250.8	238.7	231.9
80°	269.7	273.1	274.8	273.1	267.9	261.1	249.0	237.0	219.8	204.4	187.2
82.5°	245.6	250.8	252.5	252.5	249.0	242.2	228.4	214.7	195.8	175.2	152.9
85°	226.7	230.2	233.6	233.6	231.9	225.0	211.3	195.8	176.9	152.9	128.8
87.5°	207.8	209.5	213.0	216.4	213.0	206.1	194.1	176.9	158.0	134.0	106.5
90°	188.9	190.6	194.1	197.5	195.8	188.9	178.6	163.2	142.6	116.8	89.3
92.5°	170.0	173.5	175.2	176.9	178.6	173.5	164.9	149.4	128.8	103.1	77.3
95°	156.3	156.3	159.7	161.4	163.2	158.0	151.1	135.7	116.8	92.7	67.0
97.5°	142.6	142.6	146.0	146.0	147.7	144.3	137.4	123.7	104.8	82.4	56.7
100°	128.8	130.5	132.3	134.0	134.0	132.3	125.4	111.6	94.5	73.9	49.8
102.5°	120.2	120.2	121.9	121.9	123.7	120.2	113.4	101.3	84.2	65.3	42.9
105°	111.6	111.6	113.4	113.4	111.6	108.2	101.3	91.0	75.6	56.7	37.8
107.5°	104.8	104.8	104.8	104.8	103.1	99.6	92.7	80.7	67.0	51.5	34.4
110°	99.6	97.9	97.9	96.2	94.5	89.3	82.4	72.1	60.1	44.7	29.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	94.5	92.7	91.0	89.3	85.9	80.7	73.9	65.3	53.2	39.5	25.8
115°	89.3	87.6	85.9	82.4	79.0	73.9	67.0	58.4	46.4	34.4	22.3
117.5°	84.2	82.4	79.0	75.6	72.1	67.0	60.1	51.5	41.2	30.9	20.6
120°	77.3	75.6	73.9	70.4	67.0	60.1	53.2	46.4	36.1	27.5	17.2
122.5°	72.1	70.4	67.0	65.3	60.1	55.0	48.1	41.2	32.6	24.0	15.5
125°	65.3	63.5	61.8	58.4	55.0	48.1	42.9	36.1	29.2	20.6	12.0
127.5°	60.1	58.4	55.0	51.5	48.1	42.9	37.8	32.6	25.8	17.2	12.0
130°	53.2	51.5	49.8	46.4	42.9	37.8	34.4	27.5	22.3	15.5	10.3
132.5°	46.4	46.4	44.7	41.2	37.8	34.4	29.2	24.0	18.9	13.7	8.6
135°	42.9	41.2	39.5	36.1	34.4	29.2	25.8	20.6	15.5	12.0	6.9
137.5°	37.8	36.1	34.4	32.6	29.2	25.8	22.3	17.2	13.7	10.3	6.9
140°	32.6	30.9	30.9	27.5	25.8	22.3	18.9	15.5	12.0	8.6	5.2
142.5°	29.2	27.5	25.8	24.0	22.3	18.9	15.5	12.0	10.3	6.9	5.2
145°	25.8	24.0	22.3	20.6	18.9	15.5	13.7	10.3	8.6	6.9	5.2
147.5°	20.6	20.6	18.9	17.2	15.5	13.7	12.0	10.3	6.9	5.2	3.4
150°	17.2	17.2	15.5	13.7	13.7	12.0	10.3	8.6	6.9	5.2	3.4
152.5°	15.5	13.7	13.7	12.0	12.0	10.3	8.6	6.9	5.2	5.2	3.4
155°	12.0	12.0	12.0	10.3	10.3	8.6	6.9	6.9	5.2	3.4	3.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3330.3	3309.7	3326.9	3357.8	3354.4	3350.9	3347.5	3354.4	3376.7	3364.7	3345.8
5°	3325.2	3304.6	3323.5	3352.7	3350.9	3345.8	3342.4	3349.2	3371.5	3359.5	3338.9
7.5°	3314.9	3296.0	3309.7	3338.9	3338.9	3335.5	3332.0	3338.9	3359.5	3349.2	3328.6
10°	3297.7	3284.0	3297.7	3325.2	3326.9	3320.0	3316.6	3325.2	3345.8	3340.6	3323.5
12.5°	3284.0	3270.2	3285.7	3313.2	3314.9	3308.0	3302.8	3313.2	3340.6	3344.1	3338.9
15°	3265.1	3253.0	3271.9	3301.1	3301.1	3296.0	3296.0	3309.7	3347.5	3363.0	3371.5
17.5°	3237.6	3229.0	3251.3	3280.5	3282.2	3278.8	3280.5	3308.0	3357.8	3395.6	3419.6
20°	3203.2	3199.8	3223.8	3254.8	3259.9	3261.6	3270.2	3311.4	3380.1	3431.7	3455.7
22.5°	3162.0	3163.7	3191.2	3223.8	3230.7	3235.9	3253.0	3311.4	3397.3	3452.3	3462.6
25°	3115.6	3120.8	3150.0	3189.5	3198.1	3208.4	3237.6	3313.2	3402.5	3438.5	3421.4
27.5°	3065.8	3076.1	3113.9	3155.1	3165.4	3182.6	3220.4	3302.8	3378.4	3380.1	3316.6
30°	3014.3	3026.3	3071.0	3119.1	3136.2	3153.4	3199.8	3278.8	3320.0	3265.1	3153.4
32.5°	2955.9	2973.1	3017.7	3076.1	3096.7	3119.1	3165.4	3232.4	3217.0	3098.5	2938.7
35°	2882.0	2906.1	2957.6	3026.3	3045.2	3074.4	3107.0	3122.5	3053.8	2885.5	2705.1
37.5°	2791.0	2827.1	2887.2	2966.2	2986.8	3005.7	3014.3	2971.4	2834.0	2651.9	2464.7
40°	2686.2	2741.2	2806.5	2894.1	2914.7	2914.7	2883.8	2792.7	2619.3	2380.5	2172.7
42.5°	2559.1	2626.1	2708.6	2796.2	2816.8	2792.7	2718.9	2559.1	2361.6	2095.4	1875.6
45°	2404.6	2493.9	2586.6	2677.7	2688.0	2634.7	2502.5	2299.8	2055.9	1808.6	1599.0
47.5°	2220.8	2337.6	2438.9	2542.0	2528.2	2438.9	2262.0	2031.9	1774.2	1540.6	1372.3
50°	2014.7	2152.1	2265.4	2363.3	2334.1	2210.5	2002.7	1762.2	1506.3	1307.1	1167.9
52.5°	1794.8	1952.9	2066.2	2145.2	2105.7	1958.0	1729.6	1499.4	1289.9	1107.8	1015.1
55°	1566.4	1726.1	1842.9	1904.8	1853.2	1693.5	1468.5	1259.0	1061.4	942.9	888.0
57.5°	1344.8	1494.3	1604.2	1654.0	1588.7	1429.0	1221.2	1044.3	901.7	802.1	774.6
60°	1131.9	1253.8	1358.6	1396.4	1325.9	1178.2	999.6	858.8	754.0	685.3	671.6
62.5°	934.3	1034.0	1116.4	1145.6	1076.9	961.8	807.2	702.5	628.6	594.3	577.1
65°	771.2	829.6	913.7	908.6	867.4	760.9	647.5	573.7	525.6	503.2	492.9
67.5°	606.3	659.5	712.8	719.7	668.1	594.3	520.4	467.2	441.4	429.4	424.2
70°	468.9	508.4	541.0	532.4	505.0	458.6	412.2	383.0	372.7	367.6	367.6
72.5°	364.1	384.7	400.2	389.9	372.7	348.7	326.3	314.3	316.0	319.5	322.9
75°	281.7	286.8	290.3	280.0	276.5	261.1	259.3	261.1	271.4	281.7	286.8
77.5°	216.4	209.5	204.4	194.1	195.8	194.1	202.7	216.4	231.9	247.3	261.1
80°	166.6	151.1	139.1	128.8	134.0	142.6	159.7	180.3	201.0	218.1	235.3
82.5°	128.8	106.5	89.3	79.0	89.3	103.1	125.4	151.1	175.2	194.1	213.0
85°	99.6	73.9	53.2	42.9	53.2	73.9	97.9	127.1	152.9	173.5	192.4
87.5°	77.3	53.2	29.2	17.2	29.2	51.5	79.0	106.5	132.3	156.3	175.2
90°	61.8	36.1	13.7	3.4	15.5	36.1	61.8	89.3	115.1	140.8	159.7
92.5°	49.8	25.8	6.9	0.0	8.6	27.5	51.5	77.3	103.1	127.1	146.0
95°	41.2	20.6	5.2	0.0	6.9	20.6	41.2	67.0	91.0	115.1	130.5
97.5°	34.4	15.5	3.4	0.0	3.4	17.2	34.4	56.7	80.7	103.1	118.5
100°	29.2	13.7	3.4	0.0	3.4	13.7	29.2	49.8	70.4	91.0	106.5
102.5°	24.0	10.3	1.7	1.7	1.7	10.3	25.8	42.9	61.8	80.7	96.2
105°	22.3	8.6	1.7	1.7	1.7	8.6	22.3	37.8	55.0	72.1	85.9
107.5°	18.9	6.9	1.7	1.7	1.7	6.9	18.9	32.6	49.8	65.3	77.3
110°	15.5	6.9	1.7	1.7	1.7	6.9	15.5	29.2	42.9	56.7	68.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.7	5.2	1.7	1.7	1.7	5.2	13.7	25.8	37.8	51.5	61.8
115°	12.0	5.2	1.7	1.7	1.7	5.2	12.0	22.3	32.6	44.7	55.0
117.5°	10.3	5.2	1.7	1.7	1.7	3.4	10.3	18.9	29.2	39.5	49.8
120°	8.6	3.4	1.7	1.7	1.7	3.4	8.6	17.2	25.8	34.4	42.9
122.5°	8.6	3.4	1.7	1.7	1.7	3.4	6.9	13.7	22.3	29.2	37.8
125°	6.9	3.4	1.7	1.7	1.7	1.7	6.9	12.0	18.9	25.8	32.6
127.5°	6.9	3.4	1.7	1.7	1.7	1.7	5.2	10.3	15.5	22.3	29.2
130°	5.2	3.4	1.7	1.7	1.7	1.7	3.4	8.6	13.7	18.9	24.0
132.5°	5.2	3.4	1.7	1.7	1.7	1.7	3.4	6.9	10.3	15.5	20.6
135°	5.2	1.7	1.7	1.7	1.7	1.7	1.7	5.2	8.6	12.0	15.5
137.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	6.9	8.6	13.7
140°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.2	6.9	10.3
142.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.2	8.6
145°	3.4	1.7	1.7	3.4	3.4	1.7	1.7	3.4	3.4	5.2	6.9
147.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.2
150°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.2
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3342.4	3302.8	3323.5	3316.6	3323.5	3340.6	3338.9	3333.8	3337.2	3328.6	3320.0
5°	3335.5	3296.0	3316.6	3308.0	3316.6	3333.8	3330.3	3325.2	3330.3	3320.0	3311.4
7.5°	3326.9	3290.8	3314.9	3313.2	3328.6	3350.9	3352.7	3352.7	3364.7	3349.2	3342.4
10°	3326.9	3308.0	3340.6	3352.7	3392.2	3421.4	3424.8	3431.7	3452.3	3448.8	3431.7
12.5°	3363.0	3359.5	3407.6	3436.8	3472.9	3514.1	3536.4	3543.3	3557.0	3546.7	3539.9
15°	3409.3	3426.5	3479.8	3512.4	3551.9	3582.8	3588.0	3591.4	3601.7	3586.2	3574.2
17.5°	3471.2	3481.5	3524.4	3538.2	3563.9	3569.1	3562.2	3545.0	3545.0	3510.7	3500.4
20°	3500.4	3495.2	3512.4	3490.1	3479.8	3448.8	3419.6	3387.0	3385.3	3349.2	3345.8
22.5°	3474.6	3440.3	3404.2	3349.2	3325.2	3280.5	3241.0	3222.1	3210.1	3163.7	3151.7
25°	3383.6	3299.4	3246.2	3180.9	3122.5	3071.0	3033.2	2993.7	2955.9	2918.1	2900.9
27.5°	3225.6	3146.6	3060.7	2969.6	2888.9	2809.9	2746.4	2706.9	2670.8	2621.0	2595.2
30°	3031.5	2921.6	2827.1	2739.5	2607.2	2511.1	2457.8	2378.8	2351.3	2329.0	2280.9
32.5°	2803.0	2670.8	2542.0	2423.5	2287.8	2198.5	2128.0	2069.6	2052.5	1994.1	1980.3
35°	2550.6	2377.1	2231.1	2114.3	2016.4	1908.2	1849.8	1810.3	1775.9	1736.4	1729.6
37.5°	2253.4	2097.1	1932.2	1829.2	1751.9	1659.2	1614.5	1587.0	1571.6	1542.4	1537.2
40°	1954.6	1798.3	1684.9	1581.9	1533.8	1484.0	1451.3	1439.3	1432.4	1422.1	1411.8
42.5°	1683.2	1545.8	1465.1	1396.4	1375.8	1351.7	1343.1	1350.0	1343.1	1339.7	1338.0
45°	1453.0	1348.3	1291.6	1271.0	1265.8	1259.0	1265.8	1277.9	1279.6	1276.1	1276.1
47.5°	1243.5	1193.7	1169.7	1173.1	1181.7	1186.8	1198.8	1214.3	1217.7	1209.2	1212.6
50°	1106.1	1076.9	1071.8	1085.5	1104.4	1111.3	1125.0	1137.0	1135.3	1131.9	1128.4
52.5°	977.3	968.7	982.4	996.2	1016.8	1020.2	1025.4	1030.5	1028.8	1021.9	1018.5
55°	869.1	876.0	888.0	893.1	908.6	906.9	908.6	908.6	901.7	898.3	893.1
57.5°	771.2	772.9	779.8	781.5	790.1	786.6	784.9	781.5	771.2	769.5	764.3
60°	671.6	668.1	683.6	671.6	678.4	671.6	669.8	661.3	651.0	649.2	645.8
62.5°	577.1	570.2	580.5	575.4	578.8	571.9	568.5	558.2	549.6	547.9	546.2
65°	492.9	489.5	499.8	498.1	501.5	492.9	489.5	482.6	475.8	474.0	472.3
67.5°	422.5	431.1	436.3	436.3	439.7	438.0	429.4	427.7	426.0	419.1	419.1
70°	371.0	376.1	386.4	388.2	386.4	389.9	383.0	381.3	379.6	376.1	374.4
72.5°	329.8	336.6	346.9	348.7	346.9	346.9	343.5	341.8	341.8	336.6	336.6
75°	297.1	305.7	314.3	314.3	314.3	310.9	307.4	307.4	304.0	302.3	298.9
77.5°	269.7	280.0	286.8	285.1	283.4	280.0	280.0	274.8	269.7	269.7	266.2
80°	249.0	255.9	261.1	259.3	257.6	252.5	250.8	245.6	242.2	237.0	237.0
82.5°	226.7	235.3	238.7	237.0	233.6	228.4	226.7	223.3	219.8	218.1	214.7
85°	207.8	216.4	218.1	214.7	211.3	207.8	206.1	204.4	202.7	199.2	199.2
87.5°	188.9	197.5	197.5	195.8	192.4	190.6	188.9	187.2	185.5	183.8	182.1
90°	173.5	180.3	180.3	178.6	176.9	175.2	173.5	171.8	170.0	168.3	168.3
92.5°	158.0	164.9	164.9	163.2	161.4	159.7	159.7	158.0	156.3	154.6	152.9
95°	144.3	151.1	151.1	151.1	149.4	147.7	147.7	146.0	144.3	144.3	142.6
97.5°	130.5	137.4	137.4	137.4	135.7	134.0	134.0	132.3	132.3	132.3	130.5
100°	118.5	123.7	125.4	125.4	123.7	123.7	123.7	121.9	121.9	121.9	120.2
102.5°	106.5	111.6	115.1	115.1	115.1	113.4	113.4	113.4	113.4	113.4	111.6
105°	96.2	101.3	104.8	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
107.5°	87.6	92.7	96.2	97.9	99.6	99.6	101.3	101.3	101.3	101.3	101.3
110°	79.0	84.2	89.3	91.0	92.7	94.5	94.5	96.2	94.5	94.5	94.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	70.4	77.3	80.7	84.2	85.9	87.6	89.3	89.3	89.3	89.3	89.3
115°	63.5	70.4	73.9	77.3	80.7	82.4	82.4	84.2	84.2	84.2	82.4
117.5°	56.7	63.5	67.0	70.4	72.1	75.6	77.3	77.3	77.3	77.3	75.6
120°	51.5	56.7	60.1	63.5	67.0	68.7	70.4	70.4	70.4	70.4	70.4
122.5°	44.7	49.8	55.0	58.4	60.1	61.8	63.5	63.5	63.5	63.5	63.5
125°	39.5	44.7	48.1	51.5	53.2	56.7	56.7	56.7	56.7	56.7	56.7
127.5°	34.4	39.5	42.9	46.4	48.1	49.8	51.5	51.5	51.5	51.5	51.5
130°	29.2	34.4	37.8	41.2	42.9	44.7	44.7	46.4	46.4	46.4	46.4
132.5°	25.8	29.2	32.6	36.1	37.8	39.5	39.5	41.2	41.2	41.2	41.2
135°	20.6	25.8	27.5	30.9	32.6	34.4	34.4	36.1	36.1	36.1	36.1
137.5°	17.2	20.6	24.0	27.5	29.2	29.2	30.9	30.9	32.6	32.6	32.6
140°	13.7	15.5	20.6	22.3	24.0	25.8	27.5	27.5	27.5	27.5	27.5
142.5°	10.3	13.7	15.5	18.9	20.6	22.3	24.0	24.0	24.0	24.0	24.0
145°	8.6	10.3	12.0	15.5	17.2	18.9	20.6	20.6	20.6	20.6	20.6
147.5°	6.9	8.6	10.3	12.0	13.7	15.5	17.2	17.2	17.2	17.2	17.2
150°	5.2	6.9	8.6	8.6	10.3	12.0	13.7	15.5	15.5	15.5	15.5
152.5°	5.2	5.2	6.9	6.9	8.6	10.3	12.0	12.0	12.0	12.0	12.0
155°	3.4	5.2	5.2	5.2	6.9	6.9	8.6	10.3	10.3	10.3	10.3
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3325.2	3332.0	3328.6	3323.5	3321.7	3330.3	3321.7	3282.2	3297.7	3299.4	3311.4
5°	3320.0	3325.2	3321.7	3318.3	3313.2	3323.5	3313.2	3271.9	3287.4	3289.1	3301.1
7.5°	3354.4	3356.1	3356.1	3347.5	3333.8	3338.9	3325.2	3278.8	3287.4	3287.4	3296.0
10°	3440.3	3443.7	3448.8	3426.5	3409.3	3395.6	3376.7	3320.0	3318.3	3304.6	3304.6
12.5°	3551.9	3543.3	3534.7	3524.4	3510.7	3493.5	3466.0	3399.0	3376.7	3354.4	3332.0
15°	3584.5	3581.1	3579.4	3574.2	3565.6	3560.5	3539.9	3472.9	3440.3	3412.8	3373.3
17.5°	3498.6	3505.5	3527.8	3529.6	3539.9	3560.5	3557.0	3510.7	3481.5	3469.4	3421.4
20°	3344.1	3345.8	3373.3	3385.3	3429.9	3464.3	3490.1	3484.9	3478.0	3491.8	3455.7
22.5°	3158.6	3170.6	3199.8	3218.7	3261.6	3301.1	3342.4	3364.7	3400.7	3457.4	3450.6
25°	2906.1	2921.6	2962.8	2993.7	3053.8	3113.9	3168.9	3208.4	3251.3	3359.5	3395.6
27.5°	2603.8	2627.9	2681.1	2712.0	2796.2	2858.0	2937.0	3014.3	3074.4	3198.1	3271.9
30°	2286.1	2306.7	2363.3	2406.3	2478.4	2562.6	2662.2	2772.1	2871.7	2997.1	3089.9
32.5°	1988.9	2011.3	2057.6	2095.4	2176.1	2246.6	2356.5	2492.2	2584.9	2758.4	2882.0
35°	1729.6	1750.2	1782.8	1815.4	1882.4	1954.6	2049.0	2181.3	2299.8	2480.1	2636.4
37.5°	1547.5	1550.9	1569.8	1588.7	1638.5	1693.5	1767.4	1884.2	1994.1	2188.2	2359.9
40°	1417.0	1417.0	1427.3	1432.4	1454.8	1487.4	1533.8	1624.8	1715.8	1863.5	2073.1
42.5°	1336.3	1332.8	1332.8	1334.5	1332.8	1348.3	1375.8	1418.7	1499.4	1621.4	1784.5
45°	1276.1	1269.3	1264.1	1252.1	1245.2	1245.2	1246.9	1262.4	1308.8	1387.8	1520.0
47.5°	1209.2	1207.4	1198.8	1185.1	1173.1	1164.5	1150.8	1145.6	1159.3	1204.0	1293.3
50°	1131.9	1123.3	1114.7	1104.4	1090.6	1082.1	1056.3	1058.0	1046.0	1066.6	1113.0
52.5°	1018.5	1011.6	1008.2	999.6	994.5	991.0	970.4	949.8	944.7	948.1	965.3
55°	893.1	896.6	882.8	889.7	888.0	872.5	863.9	848.5	843.3	841.6	850.2
57.5°	762.6	766.0	757.4	764.3	764.3	755.7	750.6	750.6	738.5	728.2	740.3
60°	644.1	637.2	642.4	651.0	651.0	645.8	642.4	642.4	633.8	630.3	638.9
62.5°	547.9	541.0	546.2	554.8	556.5	553.1	549.6	549.6	539.3	539.3	546.2
65°	474.0	475.8	474.0	480.9	480.9	482.6	479.2	475.8	463.7	468.9	467.2
67.5°	420.8	419.1	419.1	426.0	424.2	427.7	424.2	419.1	410.5	403.6	401.9
70°	376.1	374.4	374.4	377.9	379.6	379.6	377.9	374.4	362.4	355.5	350.4
72.5°	336.6	334.9	336.6	338.4	340.1	341.8	340.1	336.6	326.3	317.7	309.2
75°	300.6	298.9	304.0	304.0	305.7	305.7	307.4	305.7	297.1	286.8	276.5
77.5°	264.5	266.2	271.4	273.1	276.5	278.2	280.0	280.0	271.4	262.8	249.0
80°	235.3	238.7	242.2	243.9	247.3	252.5	254.2	255.9	249.0	240.5	225.0
82.5°	214.7	216.4	219.8	221.6	226.7	228.4	230.2	233.6	230.2	221.6	204.4
85°	197.5	199.2	202.7	202.7	206.1	209.5	211.3	213.0	211.3	202.7	185.5
87.5°	182.1	183.8	185.5	187.2	188.9	190.6	192.4	194.1	192.4	183.8	168.3
90°	168.3	168.3	170.0	170.0	171.8	173.5	176.9	176.9	175.2	168.3	152.9
92.5°	152.9	154.6	154.6	156.3	158.0	159.7	161.4	161.4	159.7	152.9	139.1
95°	142.6	142.6	144.3	144.3	146.0	146.0	147.7	147.7	146.0	139.1	125.4
97.5°	130.5	130.5	130.5	130.5	132.3	132.3	134.0	134.0	132.3	125.4	113.4
100°	120.2	120.2	120.2	120.2	120.2	121.9	121.9	121.9	120.2	113.4	101.3
102.5°	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	108.2	103.1	91.0
105°	106.5	106.5	106.5	104.8	104.8	104.8	103.1	103.1	97.9	92.7	82.4
107.5°	99.6	99.6	99.6	97.9	97.9	96.2	94.5	94.5	89.3	84.2	73.9
110°	94.5	94.5	94.5	92.7	91.0	89.3	87.6	85.9	80.7	73.9	65.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.3	89.3	87.6	87.6	85.9	84.2	80.7	79.0	73.9	67.0	58.4
115°	82.4	82.4	82.4	80.7	79.0	77.3	75.6	72.1	67.0	60.1	51.5
117.5°	75.6	75.6	75.6	73.9	72.1	70.4	68.7	65.3	60.1	53.2	46.4
120°	68.7	68.7	68.7	67.0	65.3	63.5	61.8	58.4	53.2	48.1	39.5
122.5°	63.5	63.5	61.8	60.1	58.4	56.7	55.0	51.5	48.1	41.2	34.4
125°	56.7	56.7	55.0	55.0	53.2	51.5	49.8	46.4	41.2	36.1	30.9
127.5°	51.5	49.8	49.8	49.8	48.1	46.4	42.9	41.2	36.1	30.9	25.8
130°	44.7	44.7	44.7	42.9	42.9	41.2	37.8	34.4	30.9	27.5	22.3
132.5°	39.5	39.5	39.5	39.5	37.8	36.1	32.6	30.9	27.5	22.3	18.9
135°	36.1	36.1	34.4	34.4	32.6	30.9	29.2	25.8	22.3	18.9	15.5
137.5°	30.9	30.9	30.9	29.2	29.2	27.5	24.0	22.3	20.6	17.2	13.7
140°	27.5	27.5	25.8	25.8	24.0	24.0	22.3	18.9	17.2	13.7	12.0
142.5°	24.0	24.0	22.3	22.3	20.6	20.6	18.9	17.2	13.7	12.0	8.6
145°	20.6	20.6	18.9	18.9	18.9	17.2	15.5	13.7	12.0	10.3	8.6
147.5°	17.2	17.2	17.2	15.5	15.5	13.7	13.7	12.0	10.3	8.6	6.9
150°	15.5	15.5	13.7	13.7	13.7	12.0	10.3	10.3	8.6	6.9	5.2
152.5°	12.0	12.0	12.0	12.0	10.3	10.3	8.6	8.6	6.9	5.2	5.2
155°	10.3	10.3	10.3	8.6	8.6	8.6	6.9	6.9	5.2	5.2	3.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3306.3	3304.6	3320.0	3318.3	3297.7	3328.6	3349.2
5°	3297.7	3296.0	3309.7	3313.2	3290.8	3323.5	3345.8
7.5°	3290.8	3289.1	3304.6	3309.7	3287.4	3316.6	3340.6
10°	3292.5	3284.0	3297.7	3301.1	3280.5	3311.4	3332.0
12.5°	3304.6	3284.0	3289.1	3289.1	3270.2	3297.7	3320.0
15°	3333.8	3290.8	3284.0	3278.8	3254.8	3280.5	3302.8
17.5°	3366.4	3308.0	3284.0	3266.8	3237.6	3259.9	3284.0
20°	3399.0	3326.9	3287.4	3259.9	3220.4	3241.0	3258.2
22.5°	3414.5	3344.1	3290.8	3249.6	3199.8	3210.1	3229.0
25°	3393.9	3337.2	3284.0	3234.1	3174.0	3175.7	3191.2
27.5°	3318.3	3302.8	3268.5	3218.7	3153.4	3144.8	3156.9
30°	3189.5	3232.4	3234.1	3198.1	3129.4	3112.2	3117.4
32.5°	3009.1	3105.3	3162.0	3155.1	3095.0	3071.0	3074.4
35°	2801.3	2921.6	3045.2	3086.4	3043.5	3024.6	3017.7
37.5°	2552.3	2713.7	2878.6	2979.9	2973.1	2961.1	2954.2
40°	2277.5	2471.6	2667.4	2828.8	2878.6	2878.6	2882.0
42.5°	1983.8	2210.5	2425.2	2629.6	2746.4	2772.1	2782.4
45°	1700.4	1928.8	2162.4	2397.7	2554.0	2634.7	2663.9
47.5°	1442.7	1672.9	1894.5	2152.1	2359.9	2464.7	2511.1
50°	1222.9	1394.7	1628.2	1884.2	2110.9	2239.7	2330.7
52.5°	1040.8	1174.8	1379.2	1617.9	1846.4	2023.3	2107.4
55°	888.0	979.0	1152.5	1358.6	1576.7	1760.5	1858.4
57.5°	759.2	831.3	949.8	1121.6	1305.3	1487.4	1592.2
60°	645.8	695.6	776.3	912.0	1068.3	1224.6	1325.9
62.5°	547.9	580.5	633.8	733.4	855.3	977.3	1071.8
65°	472.3	486.1	515.3	577.1	669.8	762.6	843.3
67.5°	398.5	407.1	429.4	467.2	513.5	580.5	633.8
70°	343.5	343.5	345.2	367.6	391.6	434.5	472.3
72.5°	298.9	293.7	283.4	288.5	293.7	317.7	341.8
75°	262.8	250.8	233.6	226.7	223.3	226.7	240.5
77.5°	231.9	214.7	194.1	176.9	163.2	158.0	170.0
80°	206.1	185.5	161.4	139.1	116.8	104.8	109.9
82.5°	185.5	159.7	134.0	108.2	82.4	65.3	65.3
85°	163.2	139.1	111.6	84.2	58.4	36.1	32.6
87.5°	147.7	121.9	92.7	67.0	41.2	18.9	10.3
90°	132.3	106.5	79.0	53.2	29.2	8.6	0.0
92.5°	118.5	94.5	68.7	42.9	20.6	5.2	0.0
95°	106.5	84.2	58.4	36.1	17.2	3.4	1.7
97.5°	94.5	73.9	51.5	29.2	12.0	3.4	1.7
100°	85.9	65.3	44.7	24.0	10.3	1.7	1.7
102.5°	75.6	58.4	37.8	20.6	8.6	1.7	1.7
105°	67.0	51.5	32.6	17.2	6.9	1.7	1.7
107.5°	60.1	44.7	29.2	15.5	6.9	1.7	1.7
110°	53.2	39.5	25.8	13.7	5.2	1.7	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	48.1	34.4	22.3	12.0	3.4	1.7	1.7
115°	41.2	30.9	18.9	10.3	3.4	1.7	1.7
117.5°	36.1	25.8	17.2	8.6	3.4	1.7	1.7
120°	30.9	22.3	13.7	6.9	1.7	1.7	1.7
122.5°	27.5	18.9	12.0	6.9	1.7	1.7	1.7
125°	24.0	17.2	10.3	5.2	1.7	1.7	1.7
127.5°	20.6	13.7	8.6	3.4	1.7	1.7	1.7
130°	17.2	12.0	6.9	3.4	1.7	1.7	1.7
132.5°	13.7	10.3	6.9	3.4	1.7	1.7	1.7
135°	12.0	8.6	5.2	3.4	1.7	1.7	1.7
137.5°	10.3	6.9	3.4	3.4	3.4	1.7	1.7
140°	8.6	5.2	3.4	3.4	3.4	3.4	1.7
142.5°	6.9	5.2	3.4	3.4	3.4	3.4	1.7
145°	5.2	3.4	3.4	3.4	3.4	3.4	1.7
147.5°	5.2	3.4	3.4	3.4	3.4	3.4	1.7
150°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)