

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-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 (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-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

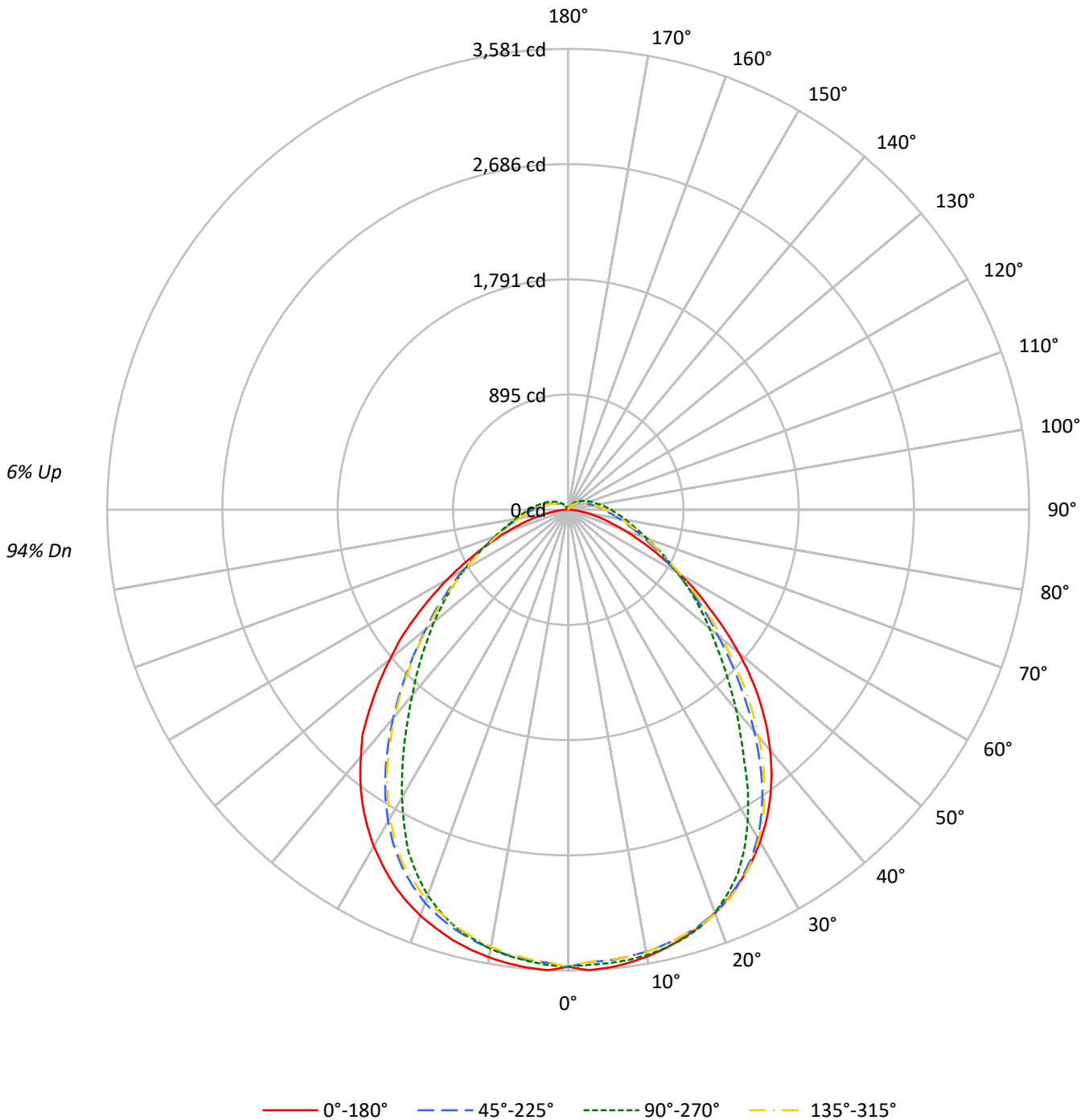
Lumens per Lamp: N/A  
Luminaire Lumens: 8989.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	14351	14351	14351	14351
5°	14474	13895	14474	13833
10°	14429	13525	14453	13338
15°	14356	13121	14422	12780
20°	14267	12602	14351	12070
25°	14060	11831	14216	11134
30°	13786	10698	13966	9904
35°	13346	9310	13603	8669
40°	12704	8143	13040	7555
45°	11849	7078	12234	6672
50°	10670	6220	11141	5906
55°	9262	5493	9936	5215
60°	7825	4822	8531	4544
65°	6452	4263	7103	3953
70°	5179	3784	5798	3500
75°	4121	3494	4641	3214
80°	3048	3371	3591	3080
85°	1998	3389	2690	3116



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.7	3.7
10°-20°	965.6	10.7
20°-30°	1431.1	15.9
30°-40°	1589.8	17.7
40°-50°	1441.2	16.0
50°-60°	1116.8	12.4
60°-70°	758.4	8.4
70°-80°	482.5	5.4
80°-90°	308.4	3.4
90°-100°	208.0	2.3
100°-110°	142.5	1.6
110°-120°	95.0	1.1
120°-130°	59.1	0.7
130°-140°	32.7	0.4
140°-150°	15.4	0.2
150°-160°	5.6	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2733.4	30.4
0°-40°	4323.2	48.1
0°-60°	6881.2	76.6
0°-90°	8430.4	93.8
90°-120°	445.4	5.0
90°-150°	552.6	6.1
90°-180°	559.0	6.2
0°-180°	8989.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3552	3552	3552	3552	3552	
5°	3573	3538	3573	3523	3573	339
15°	3446	3452	3462	3362	3446	973
25°	3177	3118	3212	2934	3177	1463
35°	2735	2384	2788	2220	2735	1706
45°	2106	1704	2174	1606	2106	1618
55°	1344	1198	1442	1137	1344	1210
65°	698	805	768	746	698	699
75°	279	537	315	494	279	301
85°	51	387	68	356	51	61
90°	0	334	4	305	0	3
95°	2	285	0	266	2	2
105°	2	209	0	197	2	2
115°	2	158	0	146	2	2
125°	2	117	2	104	2	2
135°	2	82	2	66	2	2
145°	2	53	2	37	2	1
155°	2	29	2	14	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-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3581.2	3577.3	3573.4	3567.6	3573.4	3589.1	3579.3	3557.8	3553.9	3518.7	3534.3
5°	3573.4	3567.6	3563.7	3557.8	3565.6	3585.1	3575.4	3555.8	3550.0	3516.8	3534.3
7.5°	3553.9	3550.0	3544.1	3544.1	3551.9	3571.5	3563.7	3542.2	3538.3	3505.0	3524.6
10°	3526.5	3524.6	3520.7	3520.7	3528.5	3551.9	3542.2	3522.6	3518.7	3487.5	3508.9
12.5°	3491.4	3493.3	3487.5	3487.5	3499.2	3522.6	3514.8	3493.3	3489.4	3462.1	3483.5
15°	3446.4	3448.4	3444.5	3446.4	3458.1	3485.5	3475.7	3456.2	3452.3	3430.8	3448.4
17.5°	3395.6	3397.6	3397.6	3395.6	3409.3	3436.7	3428.8	3411.3	3405.4	3387.8	3409.3
20°	3337.0	3337.0	3337.0	3337.0	3352.6	3380.0	3370.2	3356.6	3344.8	3331.2	3348.7
22.5°	3264.7	3262.8	3264.7	3270.6	3286.2	3307.7	3301.8	3286.2	3268.6	3260.8	3274.5
25°	3176.8	3182.7	3184.6	3190.5	3210.0	3227.6	3221.7	3206.1	3178.8	3172.9	3176.8
27.5°	3085.0	3088.9	3094.8	3092.8	3120.1	3137.7	3126.0	3112.3	3073.3	3067.4	3063.5
30°	2981.4	2987.3	2991.2	2989.2	3010.7	3030.3	3018.6	3001.0	2948.2	2944.3	2913.1
32.5°	2864.2	2870.1	2874.0	2874.0	2905.2	2913.1	2891.6	2866.2	2809.5	2795.8	2768.5
35°	2735.3	2741.1	2743.1	2743.1	2774.3	2772.4	2745.0	2709.9	2647.3	2629.8	2582.9
37.5°	2596.5	2600.5	2602.4	2614.1	2627.8	2616.1	2580.9	2536.0	2489.1	2440.2	2389.4
40°	2440.2	2446.1	2450.0	2457.8	2471.5	2457.8	2407.0	2352.3	2301.5	2246.8	2196.0
42.5°	2280.0	2297.6	2293.7	2291.8	2299.6	2262.5	2223.4	2160.9	2110.1	2053.4	2002.6
45°	2106.1	2104.2	2114.0	2117.9	2115.9	2084.7	2030.0	1973.3	1922.5	1863.9	1820.9
47.5°	1922.5	1920.5	1928.4	1932.3	1920.5	1887.3	1844.3	1779.9	1736.9	1686.1	1652.9
50°	1729.1	1729.1	1740.8	1729.1	1723.2	1690.0	1654.8	1590.4	1557.1	1512.2	1492.7
52.5°	1535.7	1553.2	1541.5	1537.6	1531.7	1498.5	1471.2	1418.4	1391.1	1371.5	1348.1
55°	1344.2	1363.7	1355.9	1350.0	1348.1	1320.7	1295.3	1256.3	1238.7	1225.0	1211.3
57.5°	1182.0	1180.1	1176.2	1170.3	1172.3	1150.8	1125.4	1103.9	1096.1	1090.2	1094.1
60°	994.5	1010.1	1004.2	1006.2	1008.1	1004.2	982.7	969.1	971.0	973.0	978.8
62.5°	840.1	853.8	863.6	855.7	859.7	865.5	853.8	849.9	857.7	865.5	873.3
65°	697.5	711.2	720.9	719.0	730.7	742.4	740.5	744.4	762.0	771.7	781.5
67.5°	568.5	582.2	595.9	597.8	615.4	633.0	640.8	654.5	674.0	687.7	699.4
70°	457.2	468.9	484.5	494.3	517.7	541.2	554.9	582.2	593.9	613.5	621.3
72.5°	357.5	367.3	388.8	412.2	431.8	461.1	488.4	511.9	529.5	551.0	560.7
75°	279.4	283.3	306.7	334.1	361.4	394.7	424.0	449.4	472.8	494.3	509.9
77.5°	205.1	211.0	232.5	269.6	300.9	336.0	369.3	396.6	422.0	443.5	465.0
80°	142.6	154.3	177.8	214.9	250.1	289.2	320.4	351.7	379.0	400.5	422.0
82.5°	91.8	101.6	134.8	171.9	209.1	248.1	281.3	312.6	341.9	365.4	384.9
85°	50.8	64.5	97.7	136.8	173.9	213.0	248.1	279.4	308.7	330.2	349.7
87.5°	19.5	39.1	70.3	107.5	144.6	181.7	218.8	248.1	277.4	300.9	318.5
90°	0.0	23.4	52.8	89.9	127.0	164.1	199.3	230.5	257.9	279.4	298.9
92.5°	2.0	15.6	41.0	72.3	107.5	142.6	175.8	207.1	234.5	255.9	273.5
95°	2.0	11.7	33.2	62.5	93.8	127.0	158.3	187.6	213.0	234.5	252.0
97.5°	2.0	7.8	27.4	54.7	82.1	115.3	144.6	171.9	195.4	216.9	230.5
100°	2.0	7.8	23.4	46.9	74.2	103.5	130.9	158.3	179.7	197.3	213.0
102.5°	2.0	5.9	19.5	41.0	66.4	91.8	119.2	144.6	164.1	181.7	197.3
105°	2.0	5.9	17.6	35.2	58.6	84.0	107.5	130.9	152.4	168.0	181.7
107.5°	2.0	3.9	15.6	29.3	50.8	76.2	99.6	119.2	138.7	154.3	168.0
110°	2.0	3.9	13.7	27.4	44.9	68.4	89.9	109.4	127.0	142.6	154.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	3.9	11.7	25.4	41.0	60.6	82.1	99.6	117.2	130.9	142.6
115°	2.0	3.9	11.7	23.4	37.1	52.8	72.3	91.8	105.5	121.1	130.9
117.5°	2.0	3.9	9.8	19.5	35.2	48.8	66.4	82.1	97.7	111.4	121.1
120°	2.0	3.9	9.8	17.6	31.3	44.9	58.6	74.2	89.9	99.6	109.4
122.5°	2.0	3.9	7.8	17.6	27.4	41.0	52.8	66.4	80.1	91.8	101.6
125°	2.0	3.9	7.8	15.6	25.4	37.1	48.8	58.6	72.3	82.1	91.8
127.5°	2.0	3.9	7.8	13.7	23.4	33.2	44.9	54.7	64.5	74.2	82.1
130°	2.0	3.9	5.9	11.7	21.5	29.3	39.1	50.8	58.6	66.4	74.2
132.5°	2.0	3.9	5.9	11.7	17.6	25.4	35.2	44.9	52.8	60.6	66.4
135°	2.0	3.9	5.9	9.8	15.6	23.4	29.3	39.1	46.9	54.7	60.6
137.5°	2.0	3.9	5.9	9.8	13.7	19.5	25.4	33.2	41.0	46.9	54.7
140°	2.0	3.9	5.9	7.8	11.7	17.6	23.4	27.4	35.2	41.0	46.9
142.5°	2.0	3.9	5.9	7.8	11.7	15.6	19.5	23.4	29.3	35.2	41.0
145°	2.0	3.9	5.9	7.8	9.8	13.7	17.6	21.5	23.4	29.3	33.2
147.5°	2.0	3.9	5.9	7.8	7.8	11.7	15.6	17.6	21.5	23.4	27.4
150°	2.0	3.9	5.9	5.9	7.8	9.8	13.7	15.6	17.6	21.5	23.4
152.5°	2.0	3.9	5.9	5.9	7.8	9.8	11.7	13.7	15.6	17.6	19.5
155°	2.0	3.9	5.9	5.9	5.9	7.8	9.8	11.7	13.7	15.6	17.6
157.5°	3.9	3.9	3.9	5.9	5.9	7.8	7.8	9.8	11.7	11.7	13.7
160°	3.9	3.9	3.9	5.9	5.9	5.9	7.8	7.8	9.8	9.8	11.7
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°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3530.4	3536.3	3553.9	3553.9	3550.0	3546.1	3546.1	3540.2	3544.1	3551.9	3548.0
5°	3530.4	3536.3	3553.9	3553.9	3550.0	3546.1	3544.1	3538.3	3544.1	3551.9	3548.0
7.5°	3518.7	3526.5	3544.1	3544.1	3540.2	3538.3	3534.3	3530.4	3536.3	3544.1	3540.2
10°	3503.1	3510.9	3528.5	3528.5	3524.6	3524.6	3518.7	3514.8	3522.6	3528.5	3526.5
12.5°	3479.6	3489.4	3505.0	3503.1	3499.2	3501.1	3495.3	3487.5	3495.3	3501.1	3503.1
15°	3446.4	3458.1	3473.8	3469.9	3464.0	3467.9	3458.1	3452.3	3458.1	3469.9	3467.9
17.5°	3403.4	3411.3	3423.0	3423.0	3417.1	3413.2	3409.3	3403.4	3407.4	3415.2	3417.1
20°	3342.9	3352.6	3358.5	3352.6	3350.7	3344.8	3337.0	3331.2	3339.0	3350.7	3352.6
22.5°	3262.8	3264.7	3278.4	3264.7	3255.0	3253.0	3245.2	3233.5	3245.2	3255.0	3256.9
25°	3163.1	3172.9	3167.0	3143.6	3143.6	3128.0	3124.1	3118.2	3120.1	3137.7	3145.5
27.5°	3036.1	3040.0	3024.4	3004.9	2987.3	2977.5	2963.8	2965.8	2965.8	2989.2	2997.1
30°	2897.4	2875.9	2862.3	2831.0	2817.3	2793.9	2790.0	2790.0	2786.1	2797.8	2832.9
32.5°	2731.4	2702.0	2680.6	2651.2	2627.8	2604.4	2592.6	2598.5	2596.5	2625.8	2637.6
35°	2549.7	2532.1	2487.1	2450.0	2436.3	2401.2	2401.2	2383.6	2395.3	2428.5	2442.2
37.5°	2358.2	2330.8	2293.7	2252.7	2242.9	2215.6	2205.8	2196.0	2221.4	2227.3	2241.0
40°	2162.8	2137.4	2102.2	2063.2	2063.2	2030.0	2030.0	2030.0	2031.9	2043.6	2069.0
42.5°	1977.2	1949.8	1918.6	1891.2	1887.3	1861.9	1861.9	1860.0	1863.9	1873.7	1897.1
45°	1797.5	1776.0	1742.8	1729.1	1731.0	1703.7	1709.5	1703.7	1711.5	1721.3	1729.1
47.5°	1631.4	1617.7	1604.0	1584.5	1578.6	1576.7	1566.9	1559.1	1572.8	1572.8	1584.5
50°	1477.0	1469.2	1461.4	1449.7	1451.6	1443.8	1432.1	1432.1	1441.9	1443.8	1451.6
52.5°	1342.2	1332.5	1322.7	1324.6	1326.6	1322.7	1316.8	1311.0	1316.8	1320.7	1330.5
55°	1207.4	1199.6	1209.4	1205.5	1209.4	1205.5	1201.6	1197.7	1207.4	1201.6	1211.3
57.5°	1086.3	1094.1	1098.0	1090.2	1096.1	1092.2	1094.1	1088.2	1096.1	1100.0	1098.0
60°	974.9	986.6	980.8	982.7	990.6	986.6	978.8	984.7	992.5	994.5	992.5
62.5°	873.3	887.0	892.9	889.0	890.9	887.0	892.9	885.1	894.8	898.7	892.9
65°	781.5	797.1	801.0	801.0	801.0	797.1	803.0	804.9	808.9	808.9	804.9
67.5°	703.4	717.0	720.9	724.8	720.9	717.0	717.0	719.0	726.8	730.7	726.8
70°	633.0	646.7	648.6	648.6	650.6	654.5	646.7	650.6	656.5	658.4	656.5
72.5°	572.5	586.1	590.0	588.1	590.0	592.0	592.0	588.1	593.9	597.8	597.8
75°	523.6	531.4	535.3	535.3	537.3	539.2	539.2	537.3	541.2	543.1	545.1
77.5°	478.7	484.5	490.4	490.4	492.3	490.4	494.3	494.3	496.3	498.2	500.2
80°	433.7	441.5	445.5	447.4	451.3	453.3	453.3	453.3	455.2	457.2	457.2
82.5°	398.6	404.4	410.3	416.2	416.2	418.1	418.1	418.1	420.1	420.1	422.0
85°	363.4	371.2	377.1	381.0	382.9	384.9	384.9	386.8	386.8	386.8	388.8
87.5°	332.1	341.9	345.8	349.7	351.7	355.6	355.6	355.6	357.5	357.5	357.5
90°	310.6	320.4	324.3	328.2	330.2	332.1	332.1	334.1	334.1	336.0	336.0
92.5°	285.2	295.0	302.8	302.8	304.8	308.7	306.7	306.7	308.7	310.6	310.6
95°	265.7	273.5	279.4	281.3	283.3	283.3	283.3	285.2	283.3	285.2	285.2
97.5°	242.3	250.1	255.9	259.8	261.8	261.8	261.8	263.8	261.8	263.8	263.8
100°	222.7	230.5	236.4	238.4	242.3	242.3	242.3	242.3	242.3	242.3	244.2
102.5°	207.1	214.9	218.8	220.8	222.7	224.7	224.7	224.7	224.7	226.6	226.6
105°	191.5	199.3	203.2	205.1	207.1	209.1	209.1	209.1	211.0	211.0	209.1
107.5°	177.8	183.7	187.6	191.5	193.4	193.4	195.4	195.4	195.4	195.4	195.4
110°	164.1	170.0	175.8	179.7	179.7	181.7	181.7	183.7	183.7	181.7	183.7





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	150.4	158.3	162.2	166.1	168.0	170.0	170.0	170.0	170.0	170.0	170.0
115°	138.7	146.5	150.4	154.3	156.3	158.3	158.3	158.3	158.3	158.3	158.3
117.5°	128.9	136.8	140.7	142.6	144.6	146.5	148.5	148.5	148.5	148.5	146.5
120°	119.2	125.0	128.9	132.9	134.8	136.8	136.8	136.8	136.8	136.8	136.8
122.5°	109.4	115.3	119.2	123.1	125.0	127.0	127.0	127.0	127.0	127.0	127.0
125°	99.6	105.5	109.4	113.3	115.3	117.2	117.2	117.2	117.2	117.2	117.2
127.5°	89.9	95.7	101.6	103.5	105.5	107.5	107.5	107.5	109.4	107.5	107.5
130°	80.1	86.0	91.8	93.8	95.7	97.7	99.6	99.6	99.6	99.6	97.7
132.5°	72.3	78.2	82.1	84.0	87.9	87.9	89.9	89.9	89.9	89.9	87.9
135°	66.4	70.3	74.2	76.2	80.1	80.1	80.1	82.1	82.1	80.1	78.2
137.5°	58.6	62.5	66.4	68.4	70.3	72.3	72.3	74.2	72.3	72.3	72.3
140°	54.7	56.7	60.6	62.5	64.5	64.5	64.5	66.4	66.4	64.5	64.5
142.5°	46.9	50.8	54.7	56.7	58.6	58.6	58.6	58.6	58.6	58.6	58.6
145°	39.1	44.9	46.9	50.8	50.8	52.8	52.8	52.8	52.8	52.8	50.8
147.5°	33.2	37.1	43.0	44.9	44.9	46.9	46.9	46.9	46.9	46.9	44.9
150°	25.4	29.3	35.2	39.1	39.1	41.0	41.0	41.0	41.0	39.1	39.1
152.5°	21.5	25.4	27.4	31.3	33.2	33.2	33.2	35.2	33.2	33.2	33.2
155°	19.5	21.5	23.4	25.4	27.4	29.3	29.3	29.3	29.3	27.4	27.4
157.5°	15.6	17.6	19.5	21.5	23.4	25.4	25.4	25.4	25.4	25.4	23.4
160°	11.7	13.7	15.6	15.6	17.6	19.5	21.5	19.5	19.5	19.5	19.5
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3544.1	3542.2	3548.0	3538.3	3508.9	3516.8	3512.9	3530.4	3534.3	3538.3	3555.8
5°	3544.1	3542.2	3546.1	3538.3	3507.0	3512.9	3508.9	3526.5	3530.4	3532.4	3550.0
7.5°	3536.3	3534.3	3540.2	3530.4	3497.2	3505.0	3499.2	3516.8	3518.7	3520.7	3536.3
10°	3520.7	3518.7	3522.6	3514.8	3481.6	3489.4	3481.6	3499.2	3499.2	3503.1	3514.8
12.5°	3497.2	3493.3	3501.1	3491.4	3454.2	3464.0	3460.1	3471.8	3473.8	3475.7	3487.5
15°	3464.0	3460.1	3466.0	3460.1	3426.9	3428.8	3423.0	3440.6	3442.5	3438.6	3450.3
17.5°	3415.2	3411.3	3423.0	3419.1	3385.9	3393.7	3391.7	3395.6	3401.5	3391.7	3407.4
20°	3354.6	3358.5	3362.4	3364.4	3339.0	3339.0	3337.0	3344.8	3350.7	3342.9	3354.6
22.5°	3264.7	3274.5	3286.2	3290.1	3272.5	3270.6	3282.3	3278.4	3284.3	3280.4	3288.2
25°	3151.4	3170.9	3182.7	3194.4	3184.6	3188.5	3206.1	3210.0	3210.0	3208.1	3215.9
27.5°	3010.7	3036.1	3057.6	3083.0	3073.3	3081.1	3110.4	3114.3	3122.1	3114.3	3129.9
30°	2842.7	2866.2	2907.2	2944.3	2948.2	2959.9	3001.0	3004.9	3026.4	3018.6	3024.4
32.5°	2674.7	2686.4	2733.3	2770.4	2793.9	2823.2	2868.1	2875.9	2905.2	2911.1	2911.1
35°	2463.7	2496.9	2539.9	2592.6	2621.9	2653.2	2713.8	2725.5	2768.5	2782.1	2797.8
37.5°	2285.9	2317.2	2344.5	2399.2	2452.0	2487.1	2536.0	2565.3	2610.2	2635.6	2655.2
40°	2096.4	2121.8	2151.1	2205.8	2250.7	2303.5	2352.3	2387.5	2444.1	2473.5	2498.9
42.5°	1916.6	1936.2	1967.4	2006.5	2053.4	2112.0	2158.9	2199.9	2260.5	2301.5	2330.8
45°	1756.4	1768.1	1795.5	1824.8	1865.8	1926.4	1971.3	2024.1	2072.9	2115.9	2151.1
47.5°	1606.0	1621.6	1635.3	1654.8	1692.0	1729.1	1781.8	1832.6	1881.5	1928.4	1963.5
50°	1467.3	1467.3	1488.8	1502.4	1527.8	1561.1	1602.1	1637.2	1697.8	1731.0	1776.0
52.5°	1332.5	1340.3	1352.0	1359.8	1379.4	1400.8	1434.1	1463.4	1514.2	1545.4	1588.4
55°	1213.3	1221.1	1227.0	1230.9	1242.6	1268.0	1279.7	1303.2	1338.3	1363.7	1400.8
57.5°	1100.0	1103.9	1109.7	1111.7	1113.6	1129.3	1139.0	1144.9	1180.1	1205.5	1236.7
60°	996.4	996.4	1002.3	1000.3	998.4	1006.2	1004.2	1010.1	1031.6	1047.2	1060.9
62.5°	898.7	898.7	900.7	896.8	894.8	894.8	887.0	892.9	898.7	900.7	910.5
65°	808.9	818.6	810.8	812.8	801.0	797.1	793.2	781.5	779.5	771.7	775.6
67.5°	728.8	736.6	728.8	728.8	719.0	711.2	701.4	681.9	676.0	660.4	656.5
70°	664.3	658.4	662.3	656.5	644.7	635.0	621.3	605.7	586.1	566.6	552.9
72.5°	601.8	601.8	597.8	592.0	586.1	566.6	551.0	533.4	509.9	484.5	465.0
75°	541.2	543.1	543.1	537.3	527.5	509.9	492.3	466.9	441.5	412.2	386.8
77.5°	498.2	498.2	498.2	488.4	478.7	463.0	441.5	414.2	386.8	351.7	322.4
80°	457.2	455.2	455.2	443.5	433.7	416.2	394.7	367.3	338.0	300.9	267.7
82.5°	424.0	422.0	418.1	408.3	394.7	377.1	355.6	326.3	295.0	261.8	220.8
85°	388.8	386.8	382.9	373.2	359.5	343.9	320.4	291.1	259.8	222.7	183.7
87.5°	357.5	355.6	349.7	343.9	328.2	310.6	287.2	259.8	226.6	191.5	152.4
90°	336.0	332.1	328.2	320.4	306.7	287.2	263.8	234.5	201.2	166.1	127.0
92.5°	310.6	308.7	302.8	295.0	283.3	263.8	240.3	213.0	179.7	146.5	109.4
95°	285.2	283.3	279.4	271.6	259.8	242.3	220.8	193.4	162.2	128.9	95.7
97.5°	261.8	261.8	255.9	250.1	236.4	222.7	201.2	175.8	146.5	117.2	86.0
100°	242.3	242.3	236.4	228.6	218.8	205.1	183.7	160.2	132.9	105.5	74.2
102.5°	224.7	222.7	218.8	211.0	201.2	187.6	168.0	146.5	121.1	93.8	66.4
105°	209.1	207.1	203.2	195.4	187.6	171.9	156.3	134.8	109.4	84.0	58.6
107.5°	193.4	191.5	189.5	181.7	171.9	158.3	142.6	121.1	99.6	76.2	52.8
110°	179.7	177.8	173.9	166.1	156.3	144.6	128.9	111.4	89.9	68.4	46.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.0	166.1	162.2	154.3	146.5	132.9	119.2	99.6	82.1	62.5	41.0
115°	156.3	154.3	150.4	142.6	132.9	121.1	107.5	91.8	72.3	54.7	37.1
117.5°	144.6	142.6	138.7	132.9	123.1	111.4	97.7	82.1	64.5	50.8	33.2
120°	134.8	130.9	127.0	121.1	111.4	101.6	87.9	74.2	58.6	44.9	29.3
122.5°	125.0	121.1	117.2	111.4	101.6	91.8	78.2	66.4	54.7	41.0	27.4
125°	113.3	111.4	107.5	101.6	91.8	82.1	72.3	60.6	48.8	37.1	23.4
127.5°	103.5	101.6	97.7	89.9	82.1	74.2	64.5	54.7	43.0	31.3	21.5
130°	95.7	91.8	87.9	82.1	76.2	68.4	58.6	48.8	39.1	27.4	19.5
132.5°	86.0	82.1	78.2	74.2	68.4	60.6	52.8	43.0	35.2	25.4	17.6
135°	78.2	74.2	70.3	66.4	60.6	54.7	46.9	39.1	31.3	23.4	15.6
137.5°	68.4	66.4	64.5	60.6	54.7	48.8	43.0	33.2	27.4	21.5	13.7
140°	62.5	60.6	58.6	52.8	48.8	43.0	37.1	29.3	23.4	17.6	11.7
142.5°	56.7	54.7	50.8	46.9	43.0	39.1	31.3	27.4	21.5	15.6	11.7
145°	48.8	46.9	44.9	41.0	37.1	31.3	27.4	23.4	19.5	13.7	9.8
147.5°	44.9	43.0	39.1	35.2	31.3	27.4	25.4	21.5	15.6	11.7	7.8
150°	37.1	35.2	33.2	29.3	27.4	25.4	21.5	17.6	13.7	9.8	7.8
152.5°	31.3	29.3	27.4	27.4	23.4	21.5	17.6	15.6	11.7	9.8	5.9
155°	27.4	27.4	25.4	23.4	19.5	17.6	15.6	11.7	9.8	7.8	5.9
157.5°	23.4	21.5	19.5	19.5	17.6	15.6	11.7	9.8	7.8	7.8	5.9
160°	19.5	17.6	17.6	15.6	13.7	11.7	9.8	9.8	7.8	5.9	5.9
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3557.8	3536.3	3555.8	3581.2	3581.2	3577.3	3573.4	3581.2	3600.8	3593.0	3569.5
5°	3551.9	3530.4	3548.0	3573.4	3573.4	3567.6	3563.7	3569.5	3591.0	3581.2	3559.7
7.5°	3540.2	3520.7	3532.4	3555.8	3555.8	3550.0	3546.1	3553.9	3571.5	3561.7	3538.3
10°	3518.7	3497.2	3510.9	3532.4	3530.4	3526.5	3520.7	3530.4	3546.1	3532.4	3505.0
12.5°	3491.4	3469.9	3481.6	3501.1	3499.2	3491.4	3487.5	3493.3	3507.0	3499.2	3469.9
15°	3454.2	3432.8	3442.5	3462.1	3456.2	3450.3	3442.5	3444.5	3462.1	3448.4	3417.1
17.5°	3409.3	3385.9	3393.7	3411.3	3405.4	3399.5	3389.8	3391.7	3411.3	3391.7	3358.5
20°	3354.6	3329.2	3335.1	3356.6	3346.8	3337.0	3327.2	3327.2	3346.8	3325.3	3288.2
22.5°	3296.0	3270.6	3274.5	3290.1	3282.3	3264.7	3255.0	3260.8	3270.6	3243.2	3204.2
25°	3223.7	3190.5	3196.3	3212.0	3206.1	3182.7	3172.9	3176.8	3172.9	3151.4	3110.4
27.5°	3139.7	3104.5	3108.4	3118.2	3110.4	3088.9	3077.2	3079.1	3071.3	3044.0	2997.1
30°	3034.2	3016.6	3014.6	3020.5	3008.8	2987.3	2973.6	2969.7	2967.8	2928.7	2872.0
32.5°	2926.7	2911.1	2901.3	2909.1	2895.5	2874.0	2850.5	2850.5	2831.0	2793.9	2745.0
35°	2817.3	2791.9	2782.1	2788.0	2772.4	2745.0	2725.5	2715.7	2686.4	2639.5	2586.8
37.5°	2676.6	2659.1	2647.3	2653.2	2635.6	2616.1	2579.0	2569.2	2537.9	2473.5	2407.0
40°	2524.3	2510.6	2498.9	2504.7	2485.2	2455.9	2422.7	2407.0	2371.9	2299.6	2246.8
42.5°	2360.1	2354.3	2340.6	2362.1	2323.0	2293.7	2260.5	2235.1	2199.9	2121.8	2061.2
45°	2186.3	2199.9	2168.7	2174.5	2149.1	2123.7	2088.6	2051.4	2016.3	1942.0	1873.7
47.5°	2002.6	2012.4	1990.9	1994.8	1967.4	1944.0	1912.7	1865.8	1826.8	1762.3	1701.7
50°	1813.1	1809.2	1809.2	1805.3	1783.8	1754.5	1723.2	1680.2	1641.2	1582.5	1531.7
52.5°	1611.8	1619.7	1623.6	1633.3	1606.0	1588.4	1539.6	1502.4	1473.1	1412.6	1369.6
55°	1418.4	1445.8	1438.0	1441.9	1410.6	1396.9	1357.9	1328.6	1285.6	1250.4	1223.1
57.5°	1242.6	1248.5	1252.4	1258.2	1244.5	1217.2	1185.9	1162.5	1129.3	1100.0	1080.4
60°	1072.6	1072.6	1074.6	1084.3	1070.7	1047.2	1023.8	1006.2	982.7	965.2	953.4
62.5°	912.4	926.1	928.0	920.2	902.6	890.9	875.3	865.5	849.9	844.0	840.1
65°	763.9	763.9	763.9	767.8	758.1	750.2	740.5	738.5	744.4	736.6	740.5
67.5°	638.9	633.0	629.1	631.1	627.2	623.2	621.3	627.2	638.9	638.9	648.6
70°	531.4	519.7	511.9	511.9	511.9	513.8	519.7	531.4	551.0	558.8	572.5
72.5°	443.5	418.1	406.4	406.4	408.3	416.2	433.7	455.2	472.8	488.4	506.0
75°	359.5	334.1	316.5	314.6	318.5	330.2	355.6	375.1	404.4	425.9	447.4
77.5°	291.1	259.8	238.4	236.4	242.3	259.8	291.1	316.5	349.7	373.2	396.6
80°	232.5	197.3	179.7	168.0	177.8	199.3	234.5	265.7	297.0	328.2	357.5
82.5°	185.6	152.4	125.0	113.3	125.0	154.3	187.6	224.7	255.9	289.2	318.5
85°	146.5	111.4	80.1	68.4	82.1	113.3	150.4	187.6	222.7	255.9	285.2
87.5°	115.3	80.1	48.8	33.2	50.8	84.0	119.2	156.3	193.4	226.6	255.9
90°	89.9	56.7	27.4	3.9	29.3	60.6	95.7	130.9	168.0	201.2	230.5
92.5°	76.2	43.0	15.6	0.0	17.6	44.9	78.2	113.3	146.5	179.7	209.1
95°	64.5	35.2	11.7	0.0	11.7	35.2	64.5	95.7	128.9	162.2	191.5
97.5°	54.7	27.4	7.8	0.0	7.8	27.4	52.8	84.0	113.3	144.6	171.9
100°	46.9	23.4	5.9	0.0	5.9	21.5	44.9	72.3	101.6	130.9	156.3
102.5°	41.0	19.5	3.9	0.0	3.9	17.6	37.1	62.5	87.9	115.3	140.7
105°	35.2	15.6	3.9	0.0	2.0	13.7	31.3	54.7	78.2	103.5	127.0
107.5°	31.3	13.7	3.9	0.0	2.0	11.7	27.4	46.9	70.3	91.8	113.3
110°	27.4	11.7	3.9	0.0	2.0	7.8	23.4	41.0	60.6	82.1	103.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.4	9.8	2.0	0.0	0.0	5.9	19.5	35.2	52.8	74.2	91.8
115°	21.5	9.8	2.0	0.0	0.0	3.9	15.6	31.3	46.9	66.4	82.1
117.5°	19.5	7.8	2.0	0.0	2.0	3.9	13.7	27.4	41.0	56.7	74.2
120°	17.6	7.8	2.0	0.0	2.0	2.0	9.8	23.4	35.2	50.8	64.5
122.5°	15.6	7.8	2.0	0.0	2.0	2.0	7.8	19.5	31.3	44.9	56.7
125°	13.7	5.9	3.9	2.0	2.0	2.0	5.9	15.6	27.4	37.1	50.8
127.5°	13.7	5.9	3.9	2.0	2.0	2.0	3.9	13.7	21.5	33.2	44.9
130°	11.7	5.9	3.9	2.0	2.0	2.0	2.0	9.8	19.5	27.4	37.1
132.5°	9.8	5.9	3.9	2.0	2.0	2.0	2.0	5.9	13.7	23.4	31.3
135°	9.8	5.9	3.9	2.0	2.0	2.0	2.0	3.9	9.8	17.6	25.4
137.5°	7.8	3.9	3.9	2.0	2.0	2.0	2.0	2.0	7.8	13.7	19.5
140°	7.8	3.9	3.9	2.0	2.0	2.0	2.0	2.0	5.9	9.8	15.6
142.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	3.9	7.8	11.7
145°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	7.8
147.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	5.9
150°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
152.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
155°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9
157.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
160°	5.9	3.9	3.9	2.0	3.9	2.0	3.9	3.9	3.9	3.9	3.9
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3561.7	3524.6	3544.1	3538.3	3546.1	3561.7	3559.7	3555.8	3555.8	3550.0	3542.2
5°	3550.0	3514.8	3532.4	3522.6	3532.4	3546.1	3544.1	3538.3	3542.2	3532.4	3522.6
7.5°	3526.5	3495.3	3510.9	3503.1	3510.9	3524.6	3518.7	3516.8	3520.7	3505.0	3499.2
10°	3499.2	3464.0	3481.6	3471.8	3481.6	3491.4	3487.5	3479.6	3487.5	3471.8	3466.0
12.5°	3456.2	3426.9	3438.6	3434.7	3440.6	3450.3	3442.5	3436.7	3440.6	3426.9	3415.2
15°	3409.3	3380.0	3389.8	3383.9	3387.8	3399.5	3385.9	3383.9	3380.0	3366.3	3362.4
17.5°	3348.7	3321.4	3331.2	3321.4	3327.2	3323.3	3321.4	3311.6	3311.6	3296.0	3284.3
20°	3274.5	3251.1	3245.2	3237.4	3245.2	3237.4	3225.7	3217.8	3215.9	3200.3	3190.5
22.5°	3188.5	3161.2	3165.1	3143.6	3145.5	3133.8	3114.3	3106.5	3098.7	3081.1	3067.4
25°	3085.0	3057.6	3038.1	3024.4	3006.8	3004.9	2979.5	2959.9	2958.0	2936.5	2934.5
27.5°	2967.8	2936.5	2920.9	2887.7	2866.2	2848.6	2827.1	2807.5	2797.8	2774.3	2758.7
30°	2832.9	2797.8	2758.7	2735.3	2702.0	2688.4	2651.2	2627.8	2620.0	2594.6	2582.9
32.5°	2680.6	2643.4	2612.2	2567.2	2530.1	2510.6	2473.5	2450.0	2440.2	2412.9	2397.3
35°	2514.5	2473.5	2436.3	2393.4	2364.0	2330.8	2285.9	2262.5	2241.0	2231.2	2219.5
37.5°	2340.6	2295.7	2252.7	2209.7	2184.3	2145.2	2106.1	2090.5	2065.1	2055.4	2043.6
40°	2160.9	2115.9	2074.9	2033.9	2004.6	1969.4	1934.2	1928.4	1901.0	1891.2	1883.4
42.5°	1983.1	1936.2	1889.3	1860.0	1838.5	1803.3	1779.9	1774.0	1750.6	1744.7	1744.7
45°	1822.9	1764.2	1725.2	1699.8	1682.2	1652.9	1633.3	1629.4	1609.9	1606.0	1606.0
47.5°	1650.9	1596.2	1566.9	1551.3	1535.7	1514.2	1502.4	1502.4	1482.9	1479.0	1477.0
50°	1490.7	1439.9	1418.4	1402.8	1400.8	1385.2	1375.4	1371.5	1371.5	1357.9	1359.8
52.5°	1338.3	1312.9	1295.3	1285.6	1273.8	1264.1	1256.3	1256.3	1250.4	1240.6	1244.5
55°	1197.7	1168.3	1170.3	1162.5	1156.6	1150.8	1152.7	1141.0	1139.0	1131.2	1137.1
57.5°	1057.0	1057.0	1053.1	1047.2	1037.4	1041.4	1041.4	1041.4	1031.6	1025.7	1031.6
60°	937.8	943.7	933.9	939.8	935.8	937.8	933.9	933.9	928.0	926.1	928.0
62.5°	832.3	842.1	838.2	846.0	842.1	844.0	847.9	840.1	836.2	832.3	836.2
65°	738.5	750.2	748.3	754.2	756.1	758.1	760.0	756.1	752.2	748.3	746.3
67.5°	656.5	668.2	676.0	678.0	679.9	685.8	683.8	679.9	676.0	670.1	668.2
70°	582.2	597.8	607.6	611.5	619.3	615.4	615.4	613.5	609.6	603.7	601.8
72.5°	519.7	537.3	547.1	551.0	558.8	558.8	556.8	554.9	551.0	545.1	543.1
75°	465.0	480.6	494.3	502.1	508.0	508.0	506.0	504.1	500.2	496.3	494.3
77.5°	422.0	435.7	447.4	457.2	461.1	463.0	461.1	457.2	457.2	455.2	453.3
80°	379.0	394.7	406.4	416.2	422.0	422.0	420.1	422.0	418.1	416.2	414.2
82.5°	341.9	359.5	373.2	382.9	386.8	388.8	386.8	388.8	384.9	384.9	384.9
85°	308.7	326.3	341.9	349.7	355.6	357.5	357.5	357.5	355.6	355.6	355.6
87.5°	281.3	298.9	314.6	322.4	328.2	330.2	330.2	332.1	328.2	328.2	328.2
90°	255.9	273.5	289.2	297.0	302.8	306.7	306.7	308.7	306.7	304.8	304.8
92.5°	232.5	252.0	267.7	275.5	281.3	287.2	287.2	289.2	285.2	285.2	285.2
95°	213.0	232.5	246.2	255.9	261.8	265.7	267.7	267.7	265.7	265.7	265.7
97.5°	195.4	213.0	226.6	236.4	242.3	244.2	246.2	248.1	246.2	246.2	246.2
100°	177.8	195.4	209.1	216.9	224.7	226.6	228.6	230.5	230.5	228.6	228.6
102.5°	162.2	179.7	191.5	201.2	207.1	211.0	213.0	213.0	213.0	213.0	213.0
105°	146.5	164.1	175.8	185.6	191.5	195.4	197.3	199.3	199.3	197.3	197.3
107.5°	132.9	148.5	162.2	170.0	177.8	181.7	183.7	183.7	185.6	183.7	183.7
110°	119.2	136.8	148.5	156.3	164.1	168.0	170.0	171.9	171.9	171.9	171.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.4	123.1	134.8	142.6	150.4	154.3	156.3	158.3	160.2	158.3	158.3
115°	97.7	111.4	123.1	130.9	136.8	140.7	144.6	146.5	146.5	148.5	146.5
117.5°	87.9	99.6	111.4	119.2	125.0	130.9	132.9	134.8	136.8	134.8	134.8
120°	78.2	89.9	99.6	107.5	113.3	119.2	121.1	123.1	125.0	123.1	123.1
122.5°	70.3	80.1	89.9	97.7	103.5	107.5	111.4	111.4	113.3	113.3	113.3
125°	62.5	72.3	80.1	87.9	93.8	97.7	99.6	101.6	101.6	103.5	103.5
127.5°	54.7	62.5	72.3	78.2	84.0	87.9	89.9	91.8	91.8	93.8	93.8
130°	46.9	54.7	62.5	68.4	74.2	78.2	80.1	82.1	84.0	84.0	84.0
132.5°	41.0	48.8	54.7	60.6	64.5	68.4	72.3	74.2	74.2	74.2	74.2
135°	33.2	41.0	46.9	52.8	56.7	60.6	62.5	66.4	66.4	66.4	66.4
137.5°	27.4	35.2	41.0	44.9	48.8	52.8	54.7	56.7	58.6	58.6	58.6
140°	21.5	27.4	33.2	39.1	43.0	44.9	48.8	48.8	50.8	50.8	50.8
142.5°	15.6	21.5	25.4	31.3	35.2	39.1	41.0	43.0	43.0	43.0	43.0
145°	11.7	15.6	19.5	23.4	29.3	31.3	33.2	35.2	37.1	37.1	37.1
147.5°	7.8	11.7	13.7	17.6	21.5	25.4	27.4	29.3	31.3	31.3	31.3
150°	5.9	7.8	11.7	13.7	15.6	19.5	23.4	23.4	25.4	25.4	23.4
152.5°	3.9	5.9	7.8	9.8	11.7	13.7	17.6	17.6	19.5	19.5	19.5
155°	3.9	3.9	3.9	5.9	7.8	9.8	11.7	13.7	13.7	13.7	13.7
157.5°	3.9	3.9	3.9	3.9	3.9	5.9	7.8	9.8	9.8	9.8	9.8
160°	3.9	3.9	2.0	2.0	3.9	3.9	3.9	3.9	5.9	5.9	5.9
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3548.0	3551.9	3551.9	3548.0	3546.1	3553.9	3544.1	3507.0	3518.7	3522.6	3534.3
5°	3530.4	3534.3	3534.3	3534.3	3530.4	3538.3	3528.5	3491.4	3505.0	3510.9	3518.7
7.5°	3505.0	3507.0	3510.9	3508.9	3505.0	3516.8	3507.0	3469.9	3479.6	3489.4	3499.2
10°	3471.8	3471.8	3473.8	3477.7	3473.8	3483.5	3473.8	3440.6	3450.3	3456.2	3467.9
12.5°	3426.9	3430.8	3432.8	3430.8	3428.8	3436.7	3432.8	3401.5	3405.4	3417.1	3428.8
15°	3366.3	3366.3	3376.1	3372.2	3372.2	3380.0	3383.9	3348.7	3354.6	3372.2	3383.9
17.5°	3292.1	3294.0	3301.8	3305.8	3303.8	3317.5	3319.4	3292.1	3290.1	3311.6	3323.3
20°	3196.3	3200.3	3210.0	3217.8	3217.8	3233.5	3239.3	3221.7	3223.7	3247.1	3251.1
22.5°	3079.1	3079.1	3096.7	3108.4	3118.2	3128.0	3145.5	3129.9	3129.9	3161.2	3178.8
25°	2934.5	2948.2	2954.1	2977.5	2991.2	3018.6	3034.2	3036.1	3038.1	3067.4	3079.1
27.5°	2774.3	2778.2	2795.8	2823.2	2838.8	2864.2	2893.5	2899.4	2909.1	2948.2	2965.8
30°	2592.6	2604.4	2612.2	2651.2	2672.7	2706.0	2743.1	2756.8	2764.6	2817.3	2838.8
32.5°	2407.0	2410.9	2444.1	2465.6	2491.0	2526.2	2569.2	2594.6	2610.2	2664.9	2696.2
35°	2221.4	2229.2	2256.6	2283.9	2309.3	2344.5	2389.4	2424.6	2452.0	2500.8	2541.8
37.5°	2051.4	2071.0	2076.8	2104.2	2123.7	2158.9	2190.2	2241.0	2268.3	2319.1	2371.9
40°	1899.1	1904.9	1908.8	1936.2	1949.8	1983.1	2028.0	2061.2	2098.3	2135.5	2198.0
42.5°	1748.6	1752.5	1758.4	1774.0	1789.6	1813.1	1846.3	1879.5	1918.6	1973.3	2014.3
45°	1609.9	1613.8	1617.7	1627.5	1641.2	1662.6	1684.1	1707.6	1746.7	1793.5	1836.5
47.5°	1480.9	1488.8	1488.8	1490.7	1500.5	1518.1	1533.7	1563.0	1584.5	1609.9	1658.7
50°	1357.9	1363.7	1365.7	1365.7	1371.5	1383.3	1387.2	1406.7	1426.2	1449.7	1484.9
52.5°	1242.6	1242.6	1240.6	1248.5	1248.5	1256.3	1258.2	1269.9	1283.6	1309.0	1324.6
55°	1133.2	1133.2	1139.0	1135.1	1135.1	1139.0	1137.1	1139.0	1150.8	1166.4	1180.1
57.5°	1027.7	1025.7	1031.6	1027.7	1025.7	1029.6	1033.5	1025.7	1027.7	1043.3	1043.3
60°	922.2	924.1	930.0	926.1	926.1	926.1	922.2	918.3	914.4	924.1	928.0
62.5°	838.2	832.3	838.2	832.3	836.2	834.3	830.3	822.5	824.5	820.6	816.7
65°	750.2	750.2	752.2	746.3	750.2	750.2	744.4	742.4	730.7	726.8	717.0
67.5°	674.0	674.0	676.0	672.1	672.1	674.0	668.2	662.3	650.6	644.7	631.1
70°	607.6	607.6	607.6	605.7	605.7	605.7	601.8	593.9	582.2	572.5	554.9
72.5°	547.1	549.0	547.1	547.1	552.9	547.1	541.2	533.4	523.6	504.1	488.4
75°	498.2	500.2	498.2	498.2	498.2	496.3	494.3	482.6	470.9	455.2	431.8
77.5°	455.2	455.2	457.2	455.2	455.2	453.3	447.4	437.6	424.0	410.3	382.9
80°	414.2	416.2	418.1	420.1	416.2	414.2	408.3	400.5	382.9	367.3	340.0
82.5°	384.9	382.9	384.9	386.8	382.9	381.0	375.1	365.4	351.7	330.2	302.8
85°	355.6	353.6	353.6	355.6	353.6	349.7	343.9	334.1	320.4	298.9	271.6
87.5°	326.3	328.2	330.2	328.2	326.3	322.4	316.5	306.7	291.1	273.5	244.2
90°	304.8	304.8	304.8	304.8	302.8	298.9	293.1	281.3	267.7	246.2	220.8
92.5°	285.2	285.2	285.2	285.2	283.3	277.4	271.6	261.8	246.2	224.7	201.2
95°	265.7	267.7	265.7	265.7	261.8	259.8	250.1	240.3	226.6	205.1	179.7
97.5°	244.2	246.2	244.2	244.2	242.3	238.4	232.5	220.8	207.1	187.6	164.1
100°	228.6	228.6	226.6	226.6	224.7	220.8	213.0	203.2	189.5	170.0	146.5
102.5°	211.0	213.0	211.0	211.0	207.1	203.2	197.3	187.6	173.9	154.3	132.9
105°	197.3	197.3	195.4	195.4	191.5	187.6	181.7	170.0	158.3	140.7	119.2
107.5°	183.7	183.7	181.7	181.7	177.8	173.9	166.1	156.3	144.6	127.0	107.5
110°	170.0	170.0	170.0	168.0	164.1	158.3	152.4	142.6	130.9	115.3	95.7





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	160.2	158.3	156.3	154.3	150.4	146.5	138.7	128.9	117.2	103.5	86.0
115°	146.5	146.5	144.6	142.6	138.7	132.9	127.0	119.2	107.5	91.8	76.2
117.5°	134.8	134.8	132.9	130.9	127.0	121.1	115.3	107.5	95.7	82.1	68.4
120°	123.1	123.1	121.1	119.2	115.3	109.4	105.5	95.7	86.0	72.3	60.6
122.5°	113.3	111.4	111.4	107.5	105.5	99.6	93.8	86.0	76.2	64.5	52.8
125°	101.6	101.6	99.6	97.7	95.7	89.9	84.0	76.2	66.4	56.7	46.9
127.5°	91.8	91.8	89.9	87.9	86.0	80.1	74.2	68.4	58.6	48.8	39.1
130°	82.1	82.1	80.1	78.2	76.2	70.3	66.4	58.6	50.8	43.0	33.2
132.5°	74.2	74.2	72.3	70.3	66.4	62.5	58.6	50.8	44.9	37.1	29.3
135°	66.4	64.5	64.5	62.5	58.6	54.7	50.8	44.9	37.1	31.3	23.4
137.5°	58.6	56.7	54.7	52.8	50.8	46.9	43.0	39.1	33.2	25.4	19.5
140°	50.8	48.8	48.8	46.9	43.0	41.0	37.1	31.3	27.4	21.5	15.6
142.5°	43.0	43.0	41.0	39.1	37.1	35.2	31.3	27.4	21.5	17.6	11.7
145°	37.1	35.2	35.2	33.2	31.3	27.4	25.4	21.5	17.6	13.7	9.8
147.5°	29.3	29.3	29.3	27.4	25.4	23.4	21.5	17.6	13.7	9.8	5.9
150°	23.4	23.4	23.4	21.5	19.5	17.6	15.6	13.7	9.8	5.9	3.9
152.5°	19.5	19.5	17.6	17.6	15.6	13.7	11.7	9.8	5.9	3.9	3.9
155°	13.7	13.7	13.7	11.7	11.7	9.8	7.8	5.9	3.9	3.9	3.9
157.5°	9.8	9.8	9.8	7.8	7.8	5.9	5.9	3.9	3.9	3.9	3.9
160°	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3528.5	3526.5	3542.2	3542.2	3524.6	3551.9	3581.2
5°	3516.8	3514.8	3530.4	3530.4	3514.8	3542.2	3573.4
7.5°	3493.3	3495.3	3510.9	3514.8	3495.3	3520.7	3553.9
10°	3467.9	3466.0	3483.5	3487.5	3471.8	3495.3	3526.5
12.5°	3426.9	3426.9	3444.5	3450.3	3434.7	3462.1	3491.4
15°	3383.9	3383.9	3395.6	3405.4	3391.7	3417.1	3446.4
17.5°	3329.2	3327.2	3339.0	3350.7	3337.0	3364.4	3395.6
20°	3258.9	3258.9	3272.5	3286.2	3276.5	3301.8	3337.0
22.5°	3184.6	3176.8	3200.3	3210.0	3204.2	3229.6	3264.7
25°	3090.8	3088.9	3112.3	3126.0	3118.2	3145.5	3176.8
27.5°	2989.2	2987.3	3010.7	3028.3	3024.4	3049.8	3085.0
30°	2866.2	2875.9	2897.4	2926.7	2917.0	2944.3	2981.4
32.5°	2737.2	2747.0	2772.4	2803.6	2805.6	2827.1	2864.2
35°	2582.9	2608.3	2625.8	2666.9	2674.7	2696.2	2735.3
37.5°	2420.7	2450.0	2487.1	2518.4	2534.0	2551.6	2596.5
40°	2239.0	2282.0	2323.0	2360.1	2379.7	2397.3	2440.2
42.5°	2074.9	2108.1	2147.2	2184.3	2219.5	2235.1	2280.0
45°	1889.3	1928.4	1963.5	2008.5	2043.6	2061.2	2106.1
47.5°	1707.6	1746.7	1793.5	1824.8	1861.9	1879.5	1922.5
50°	1533.7	1568.9	1607.9	1645.1	1676.3	1692.0	1729.1
52.5°	1361.8	1398.9	1436.0	1459.5	1492.7	1504.4	1535.7
55°	1209.4	1234.8	1268.0	1281.7	1314.9	1322.7	1344.2
57.5°	1062.8	1080.4	1092.2	1115.6	1139.0	1156.6	1182.0
60°	930.0	937.8	945.6	959.3	978.8	984.7	994.5
62.5°	810.8	808.9	824.5	828.4	830.3	849.9	840.1
65°	705.3	707.3	693.6	687.7	695.5	701.4	697.5
67.5°	617.4	605.7	593.9	580.3	568.5	574.4	568.5
70°	531.4	521.7	502.1	482.6	474.8	463.0	457.2
72.5°	463.0	439.6	420.1	394.7	381.0	367.3	357.5
75°	410.3	377.1	349.7	322.4	302.8	283.3	279.4
77.5°	355.6	324.3	293.1	263.8	234.5	213.0	205.1
80°	312.6	283.3	246.2	211.0	179.7	152.4	142.6
82.5°	273.5	242.3	205.1	168.0	132.9	103.5	91.8
85°	240.3	207.1	170.0	132.9	97.7	66.4	50.8
87.5°	214.9	177.8	140.7	105.5	68.4	37.1	19.5
90°	191.5	156.3	121.1	84.0	48.8	19.5	0.0
92.5°	170.0	136.8	101.6	68.4	37.1	11.7	2.0
95°	150.4	121.1	86.0	54.7	27.4	7.8	2.0
97.5°	134.8	105.5	74.2	44.9	21.5	5.9	2.0
100°	121.1	91.8	64.5	37.1	17.6	3.9	2.0
102.5°	107.5	82.1	54.7	31.3	13.7	2.0	2.0
105°	95.7	72.3	46.9	27.4	11.7	2.0	2.0
107.5°	86.0	64.5	41.0	23.4	7.8	2.0	2.0
110°	76.2	54.7	35.2	19.5	5.9	2.0	2.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	68.4	48.8	31.3	15.6	3.9	2.0	2.0
115°	60.6	43.0	27.4	13.7	3.9	2.0	2.0
117.5°	52.8	37.1	23.4	9.8	2.0	2.0	2.0
120°	46.9	33.2	19.5	7.8	2.0	2.0	2.0
122.5°	41.0	27.4	15.6	5.9	2.0	2.0	2.0
125°	35.2	23.4	13.7	3.9	2.0	2.0	2.0
127.5°	29.3	19.5	9.8	3.9	2.0	2.0	2.0
130°	25.4	15.6	7.8	2.0	2.0	2.0	2.0
132.5°	21.5	11.7	5.9	2.0	2.0	2.0	2.0
135°	17.6	9.8	3.9	2.0	2.0	2.0	2.0
137.5°	13.7	7.8	3.9	2.0	2.0	2.0	2.0
140°	9.8	5.9	2.0	2.0	2.0	2.0	2.0
142.5°	7.8	3.9	2.0	2.0	2.0	2.0	2.0
145°	5.9	3.9	2.0	2.0	2.0	2.0	2.0
147.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0
150°	3.9	3.9	2.0	2.0	3.9	2.0	2.0
152.5°	3.9	2.0	2.0	2.0	3.9	2.0	2.0
155°	3.9	3.9	3.9	3.9	3.9	3.9	2.0
157.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
160°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)