

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-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: 8SNLED-LD5-98SL-LC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

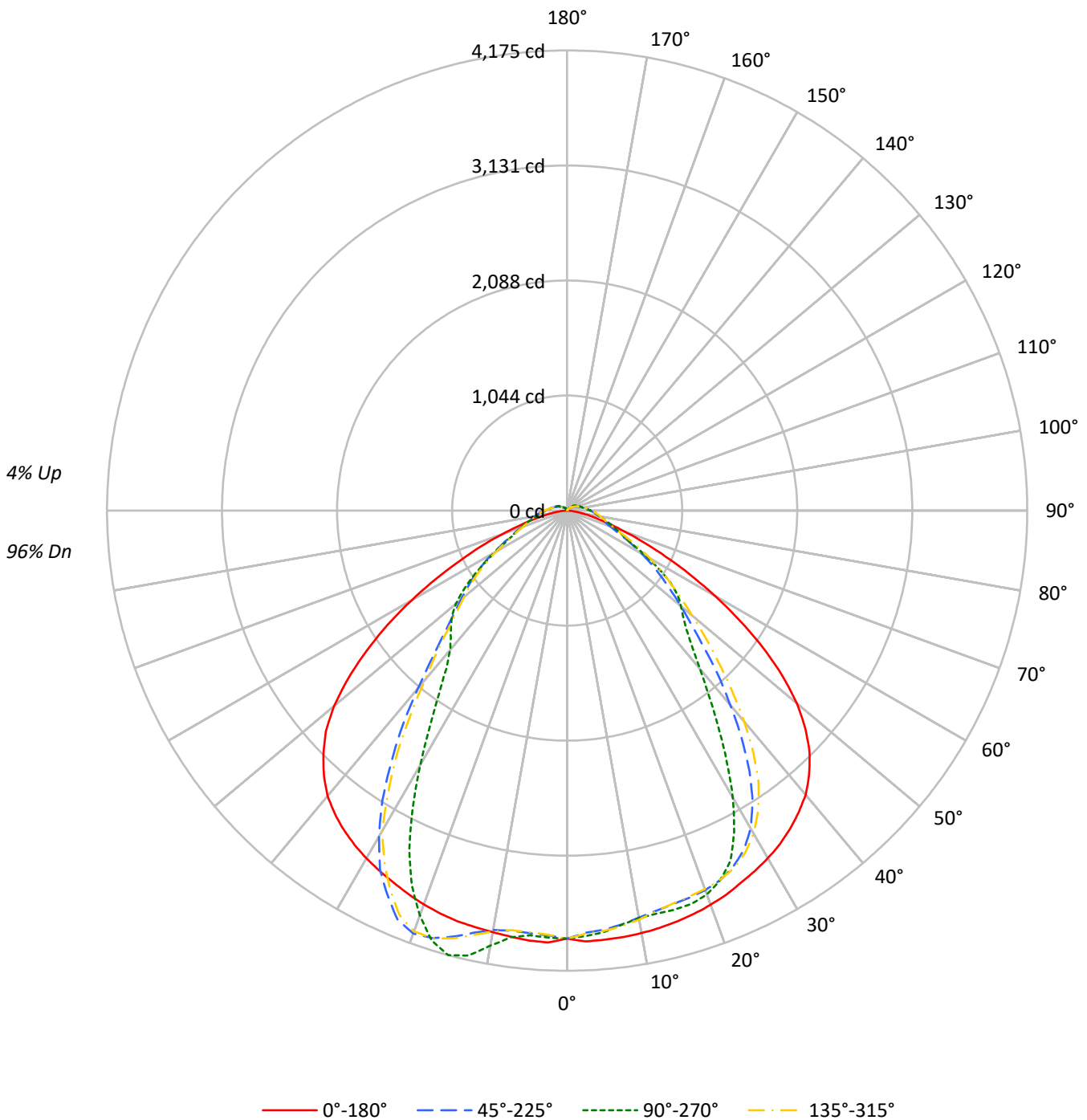
Lumens per Lamp: N/A
Luminaire Lumens: 9259.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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



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

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°	15693	15693	15693	15693
5°	15829	15071	15861	15189
10°	15924	14444	15891	15424
15°	16070	14251	16062	15867
20°	16271	14025	16254	14784
25°	16497	13305	16488	12856
30°	16836	11531	16846	10216
35°	17198	9325	17247	7891
40°	17526	7508	17599	6615
45°	17506	6359	17597	6193
50°	16800	5855	17035	5724
55°	14958	5262	15330	4784
60°	12186	4028	12833	3694
65°	9112	3082	9818	2922
70°	6249	2660	7044	2543
75°	4144	2400	4824	2270
80°	2744	2238	3217	2058
85°	1499	2233	1975	2039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	4.0
10°-20°	1097.7	11.9
20°-30°	1668.8	18.0
30°-40°	1790.2	19.3
40°-50°	1553.7	16.8
50°-60°	1151.4	12.4
60°-70°	659.7	7.1
70°-80°	365.3	3.9
80°-90°	222.5	2.4
90°-100°	144.7	1.6
100°-110°	96.9	1.0
110°-120°	65.4	0.7
120°-130°	40.1	0.4
130°-140°	21.1	0.2
140°-150°	9.6	0.1
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3135.4	33.9
0°-40°	4925.6	53.2
0°-60°	7630.8	82.4
0°-90°	8878.3	95.9
90°-120°	307.0	3.3
90°-150°	377.8	4.1
90°-180°	381.0	4.1
0°-180°	9259.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3884	3884	3884	3884	3884	
5°	3908	3838	3916	3868	3908	372
15°	3858	3750	3856	4175	3858	1092
25°	3727	3507	3725	3388	3727	1723
35°	3525	2387	3535	2020	3525	2206
45°	3112	1531	3128	1491	3112	2382
55°	2171	1148	2225	1043	2171	1925
65°	985	582	1061	552	985	993
75°	281	369	327	349	281	321
85°	38	255	50	233	38	50
90°	0	213	4	197	0	2
95°	2	174	0	166	2	1
105°	2	130	2	124	2	2
115°	2	106	2	96	2	2
125°	2	80	2	66	2	2
135°	2	50	2	42	2	2
145°	2	30	4	24	2	1
155°	4	14	4	12	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3912.0	3902.0	3898.0	3889.9	3896.0	3920.0	3904.0	3877.9	3879.9	3833.8	3857.8
5°	3908.0	3896.0	3889.9	3881.9	3885.9	3908.0	3891.9	3865.9	3863.9	3817.7	3839.8
7.5°	3902.0	3889.9	3879.9	3873.9	3875.9	3893.9	3873.9	3843.8	3837.8	3787.6	3807.7
10°	3891.9	3883.9	3869.9	3859.8	3857.8	3877.9	3845.8	3815.7	3801.7	3749.5	3769.6
12.5°	3877.9	3865.9	3851.8	3833.8	3831.8	3843.8	3817.7	3775.6	3761.5	3719.4	3741.5
15°	3857.8	3843.8	3827.7	3807.7	3797.7	3805.7	3773.6	3735.5	3733.5	3697.3	3727.4
17.5°	3835.8	3815.7	3797.7	3769.6	3755.5	3761.5	3735.5	3701.4	3705.4	3683.3	3717.4
20°	3805.7	3783.6	3755.5	3727.4	3707.4	3717.4	3699.3	3673.3	3679.3	3663.2	3693.3
22.5°	3771.6	3741.5	3707.4	3675.3	3659.2	3673.3	3659.2	3637.2	3639.2	3629.1	3647.2
25°	3727.4	3693.3	3653.2	3613.1	3605.1	3615.1	3607.1	3589.0	3581.0	3564.9	3573.0
27.5°	3687.3	3649.2	3599.0	3556.9	3542.9	3562.9	3544.9	3514.8	3492.7	3470.6	3454.6
30°	3641.2	3595.0	3538.9	3490.7	3478.7	3486.7	3460.6	3414.5	3356.3	3328.2	3284.1
32.5°	3591.0	3530.8	3460.6	3406.5	3398.4	3392.4	3344.3	3278.1	3187.8	3131.6	3063.4
35°	3524.8	3458.6	3374.4	3308.1	3296.1	3262.0	3183.8	3095.5	2979.1	2882.8	2766.5
37.5°	3450.6	3372.3	3284.1	3195.8	3161.7	3093.5	2983.2	2890.9	2714.3	2598.0	2457.5
40°	3366.3	3272.0	3163.7	3057.4	3001.2	2890.9	2764.5	2628.1	2457.5	2301.1	2182.7
42.5°	3250.0	3149.7	3021.3	2902.9	2806.6	2660.2	2511.7	2319.1	2162.6	2030.2	1909.9
45°	3111.5	2991.2	2842.7	2700.3	2577.9	2403.4	2228.8	2036.2	1905.8	1751.4	1669.1
47.5°	2933.0	2802.6	2644.1	2485.6	2325.1	2132.5	1950.0	1765.4	1635.0	1524.7	1464.5
50°	2722.4	2602.0	2427.4	2238.9	2062.3	1861.7	1679.2	1540.7	1414.3	1346.1	1300.0
52.5°	2461.6	2349.2	2170.7	1966.0	1795.5	1598.9	1432.4	1320.0	1229.8	1179.6	1163.6
55°	2170.7	2072.4	1895.8	1705.2	1530.7	1350.1	1223.8	1125.5	1067.3	1037.2	1039.2
57.5°	1859.7	1783.5	1617.0	1446.4	1281.9	1145.5	1031.2	952.9	908.8	906.8	912.8
60°	1548.8	1492.6	1348.1	1201.7	1057.2	946.9	862.6	808.5	780.4	782.4	780.4
62.5°	1251.8	1199.7	1095.4	975.0	860.6	786.4	710.2	688.1	664.0	662.0	662.0
65°	985.0	944.9	860.6	774.4	688.1	640.0	601.8	575.8	557.7	553.7	555.7
67.5°	740.3	724.2	666.0	607.9	553.7	523.6	491.5	485.5	471.4	471.4	475.5
70°	551.7	539.7	507.6	473.5	451.4	431.3	415.3	415.3	413.3	411.3	421.3
72.5°	399.2	401.2	391.2	365.1	363.1	359.1	355.1	361.1	363.1	369.1	381.2
75°	280.9	286.9	286.9	282.9	290.9	300.9	306.9	317.0	329.0	337.0	351.1
77.5°	198.6	198.6	208.6	220.7	236.7	254.8	270.8	284.9	300.9	311.0	323.0
80°	128.4	134.4	150.5	172.5	194.6	218.7	240.7	258.8	274.8	290.9	298.9
82.5°	76.2	86.3	106.3	134.4	162.5	192.6	214.7	236.7	254.8	270.8	276.8
85°	38.1	52.2	76.2	106.3	136.4	168.5	196.6	216.7	236.7	250.8	258.8
87.5°	12.0	28.1	54.2	82.3	114.4	146.4	176.5	198.6	216.7	228.7	236.7
90°	0.0	14.0	38.1	68.2	98.3	130.4	158.5	182.6	200.6	210.6	216.7
92.5°	0.0	8.0	30.1	56.2	84.3	116.4	144.4	166.5	182.6	192.6	196.6
95°	2.0	6.0	22.1	46.1	74.2	104.3	130.4	150.5	166.5	176.5	178.5
97.5°	2.0	4.0	18.1	38.1	64.2	92.3	118.4	138.4	150.5	160.5	162.5
100°	2.0	4.0	14.0	34.1	56.2	82.3	106.3	124.4	138.4	146.4	148.5
102.5°	2.0	2.0	12.0	28.1	50.2	72.2	94.3	112.3	124.4	132.4	136.4
105°	2.0	2.0	10.0	24.1	44.1	64.2	84.3	102.3	112.3	120.4	124.4
107.5°	2.0	2.0	8.0	20.1	38.1	56.2	76.2	90.3	102.3	110.3	114.4
110°	2.0	2.0	6.0	18.1	32.1	50.2	66.2	80.2	92.3	100.3	104.3



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	2.0	6.0	16.0	28.1	44.1	58.2	72.2	82.3	90.3	96.3
115°	2.0	2.0	6.0	14.0	26.1	38.1	52.2	64.2	74.2	82.3	88.3
117.5°	2.0	2.0	6.0	12.0	22.1	34.1	46.1	58.2	66.2	74.2	80.2
120°	2.0	2.0	4.0	10.0	20.1	30.1	40.1	50.2	60.2	68.2	74.2
122.5°	2.0	2.0	4.0	10.0	16.0	26.1	36.1	44.1	54.2	60.2	66.2
125°	2.0	2.0	4.0	8.0	14.0	24.1	32.1	40.1	46.1	54.2	60.2
127.5°	2.0	2.0	4.0	8.0	12.0	20.1	28.1	36.1	42.1	48.1	52.2
130°	2.0	2.0	4.0	6.0	10.0	16.0	24.1	30.1	38.1	42.1	46.1
132.5°	2.0	2.0	2.0	6.0	8.0	12.0	18.1	26.1	32.1	38.1	40.1
135°	2.0	2.0	2.0	4.0	8.0	10.0	14.0	20.1	26.1	32.1	36.1
137.5°	2.0	2.0	2.0	4.0	6.0	10.0	12.0	16.0	22.1	26.1	32.1
140°	2.0	2.0	2.0	4.0	6.0	8.0	10.0	14.0	18.1	22.1	26.1
142.5°	2.0	2.0	2.0	4.0	4.0	6.0	8.0	12.0	14.0	18.1	22.1
145°	2.0	2.0	2.0	4.0	4.0	6.0	8.0	10.0	12.0	14.0	18.1
147.5°	2.0	2.0	2.0	4.0	4.0	4.0	6.0	8.0	10.0	12.0	14.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	8.0	10.0	12.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	8.0	10.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	8.0	8.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3849.8	3853.8	3877.9	3875.9	3871.9	3867.9	3867.9	3863.9	3867.9	3877.9	3873.9
5°	3829.7	3835.8	3853.8	3851.8	3847.8	3845.8	3843.8	3837.8	3841.8	3855.8	3851.8
7.5°	3793.6	3799.7	3815.7	3807.7	3801.7	3805.7	3795.6	3789.6	3797.7	3811.7	3809.7
10°	3755.5	3759.5	3779.6	3775.6	3765.6	3767.6	3757.5	3753.5	3763.5	3771.6	3773.6
12.5°	3729.4	3743.5	3761.5	3759.5	3757.5	3759.5	3749.5	3745.5	3751.5	3759.5	3757.5
15°	3723.4	3741.5	3761.5	3761.5	3763.5	3765.6	3755.5	3749.5	3755.5	3761.5	3759.5
17.5°	3717.4	3739.5	3757.5	3755.5	3757.5	3761.5	3745.5	3741.5	3749.5	3757.5	3753.5
20°	3697.3	3717.4	3729.4	3725.4	3725.4	3727.4	3707.4	3707.4	3719.4	3725.4	3727.4
22.5°	3641.2	3665.2	3665.2	3655.2	3655.2	3647.2	3641.2	3629.1	3643.2	3653.2	3661.2
25°	3556.9	3566.9	3554.9	3532.8	3520.8	3510.8	3482.7	3506.8	3506.8	3536.9	3546.9
27.5°	3438.5	3416.5	3382.4	3336.2	3326.2	3294.1	3276.1	3282.1	3292.1	3334.2	3366.3
30°	3244.0	3177.7	3119.6	3099.5	3055.4	3023.3	2991.2	3007.2	3025.3	3049.4	3115.6
32.5°	2987.2	2923.0	2828.7	2794.6	2748.4	2708.3	2670.2	2694.3	2726.4	2742.4	2814.6
35°	2692.3	2616.0	2529.8	2471.6	2423.4	2401.4	2353.2	2387.3	2421.4	2433.5	2495.7
37.5°	2379.3	2301.1	2224.8	2174.7	2128.5	2114.5	2082.4	2106.5	2132.5	2150.6	2202.8
40°	2082.4	2010.2	1952.0	1917.9	1885.8	1873.7	1861.7	1871.7	1891.8	1905.8	1946.0
42.5°	1827.6	1769.4	1729.3	1709.2	1687.2	1671.1	1673.1	1677.1	1687.2	1717.3	1735.3
45°	1604.9	1570.8	1544.7	1540.7	1526.7	1524.7	1522.7	1530.7	1536.7	1554.8	1568.8
47.5°	1426.4	1412.3	1406.3	1414.3	1420.4	1412.3	1416.3	1426.4	1438.4	1438.4	1436.4
50°	1285.9	1290.0	1298.0	1316.0	1328.1	1332.1	1336.1	1348.1	1350.1	1354.2	1348.1
52.5°	1171.6	1175.6	1197.7	1225.8	1239.8	1245.8	1253.8	1265.9	1265.9	1269.9	1261.9
55°	1055.2	1061.3	1083.3	1111.4	1123.4	1131.5	1139.5	1147.5	1153.5	1161.6	1155.5
57.5°	926.8	944.9	958.9	967.0	975.0	981.0	987.0	989.0	1001.1	1003.1	1013.1
60°	790.4	794.4	808.5	806.5	800.5	816.5	808.5	822.5	836.6	854.6	856.6
62.5°	660.0	662.0	672.1	668.0	676.1	674.1	680.1	680.1	690.1	698.1	708.2
65°	557.7	559.7	567.7	567.7	565.7	571.8	577.8	581.8	581.8	587.8	595.8
67.5°	481.5	487.5	495.5	499.5	503.5	503.5	509.6	511.6	515.6	517.6	521.6
70°	429.3	437.3	445.4	449.4	451.4	455.4	457.4	457.4	461.4	463.4	467.4
72.5°	391.2	399.2	405.2	405.2	409.3	411.3	411.3	413.3	415.3	419.3	423.3
75°	359.1	365.1	369.1	367.1	367.1	367.1	369.1	369.1	373.1	377.2	381.2
77.5°	329.0	335.0	335.0	331.0	331.0	331.0	331.0	333.0	335.0	339.0	343.1
80°	306.9	306.9	304.9	304.9	300.9	298.9	298.9	300.9	300.9	304.9	311.0
82.5°	282.9	282.9	280.9	278.9	276.8	274.8	274.8	276.8	278.9	280.9	284.9
85°	260.8	260.8	256.8	256.8	254.8	254.8	254.8	254.8	256.8	258.8	262.8
87.5°	238.7	236.7	234.7	232.7	232.7	232.7	232.7	232.7	234.7	238.7	240.7
90°	216.7	214.7	212.7	212.7	210.6	210.6	212.7	212.7	214.7	216.7	218.7
92.5°	196.6	194.6	192.6	192.6	190.6	190.6	192.6	190.6	194.6	194.6	196.6
95°	178.5	176.5	174.5	174.5	174.5	174.5	174.5	174.5	176.5	176.5	178.5
97.5°	162.5	160.5	158.5	158.5	160.5	158.5	160.5	160.5	160.5	162.5	164.5
100°	148.5	146.4	146.4	148.5	146.4	146.4	148.5	148.5	148.5	148.5	150.5
102.5°	136.4	136.4	136.4	136.4	136.4	136.4	138.4	138.4	138.4	138.4	140.4
105°	124.4	126.4	126.4	126.4	128.4	128.4	128.4	130.4	130.4	130.4	130.4
107.5°	116.4	118.4	118.4	120.4	120.4	122.4	122.4	122.4	122.4	124.4	124.4
110°	108.3	110.3	112.3	114.4	114.4	116.4	116.4	116.4	116.4	116.4	116.4



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	100.3	102.3	104.3	108.3	110.3	110.3	110.3	110.3	112.3	112.3	110.3
115°	92.3	96.3	98.3	102.3	104.3	104.3	106.3	106.3	106.3	106.3	104.3
117.5°	84.3	90.3	92.3	96.3	98.3	98.3	100.3	100.3	100.3	100.3	98.3
120°	78.2	82.3	86.3	88.3	90.3	92.3	92.3	94.3	94.3	94.3	92.3
122.5°	72.2	76.2	80.2	82.3	84.3	86.3	86.3	86.3	86.3	86.3	86.3
125°	64.2	68.2	72.2	74.2	76.2	78.2	78.2	80.2	80.2	80.2	78.2
127.5°	58.2	62.2	64.2	68.2	70.2	70.2	72.2	72.2	72.2	72.2	70.2
130°	50.2	54.2	58.2	60.2	62.2	62.2	64.2	64.2	64.2	64.2	64.2
132.5°	44.1	48.1	50.2	54.2	54.2	56.2	56.2	58.2	58.2	58.2	56.2
135°	40.1	42.1	44.1	48.1	48.1	50.2	50.2	50.2	50.2	50.2	50.2
137.5°	36.1	38.1	40.1	42.1	42.1	44.1	44.1	44.1	44.1	46.1	44.1
140°	30.1	34.1	36.1	36.1	38.1	38.1	38.1	40.1	40.1	40.1	38.1
142.5°	26.1	28.1	30.1	32.1	34.1	34.1	34.1	34.1	36.1	34.1	34.1
145°	20.1	24.1	26.1	28.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
147.5°	16.0	18.1	22.1	24.1	24.1	26.1	26.1	26.1	26.1	26.1	26.1
150°	14.0	14.0	18.1	20.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
152.5°	10.0	12.0	14.0	16.0	18.1	18.1	18.1	18.1	18.1	18.1	18.1
155°	10.0	10.0	12.0	12.0	14.0	14.0	14.0	14.0	16.0	14.0	14.0
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-LD5-98SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3867.9	3865.9	3873.9	3865.9	3825.7	3841.8	3835.8	3857.8	3859.8	3865.9	3885.9
5°	3847.8	3847.8	3857.8	3849.8	3811.7	3827.7	3825.7	3847.8	3851.8	3855.8	3877.9
7.5°	3807.7	3809.7	3823.7	3817.7	3777.6	3801.7	3799.7	3825.7	3833.8	3841.8	3861.8
10°	3769.6	3767.6	3783.6	3777.6	3739.5	3767.6	3765.6	3791.6	3803.7	3817.7	3841.8
12.5°	3749.5	3743.5	3749.5	3743.5	3701.4	3723.4	3725.4	3755.5	3769.6	3787.6	3815.7
15°	3749.5	3739.5	3739.5	3727.4	3679.3	3693.3	3695.3	3715.4	3733.5	3751.5	3785.6
17.5°	3745.5	3735.5	3733.5	3723.4	3671.3	3671.3	3669.3	3683.3	3693.3	3711.4	3747.5
20°	3723.4	3719.4	3717.4	3711.4	3663.2	3655.2	3651.2	3651.2	3657.2	3663.2	3699.3
22.5°	3665.2	3669.3	3673.3	3677.3	3639.2	3625.1	3627.1	3623.1	3617.1	3617.1	3647.2
25°	3556.9	3577.0	3593.0	3611.1	3589.0	3579.0	3591.0	3585.0	3575.0	3566.9	3593.0
27.5°	3384.4	3426.5	3460.6	3504.8	3506.8	3498.7	3530.8	3526.8	3524.8	3512.8	3532.8
30°	3145.7	3211.9	3258.0	3322.2	3376.4	3384.4	3438.5	3446.6	3454.6	3448.6	3468.6
32.5°	2856.8	2947.0	3025.3	3125.6	3177.7	3223.9	3300.1	3332.2	3364.3	3374.4	3396.4
35°	2541.8	2644.1	2736.4	2846.7	2929.0	3029.3	3121.6	3169.7	3241.9	3270.0	3302.1
37.5°	2242.9	2339.2	2429.5	2539.8	2672.2	2776.5	2890.9	2999.2	3097.5	3137.6	3185.8
40°	1978.1	2056.3	2142.6	2238.9	2359.2	2495.7	2620.0	2770.5	2886.9	2967.1	3037.3
42.5°	1777.5	1815.6	1889.8	1976.1	2072.4	2210.8	2337.2	2505.7	2646.1	2760.5	2876.8
45°	1598.9	1617.0	1671.1	1717.3	1815.6	1937.9	2072.4	2236.9	2383.3	2529.8	2670.2
47.5°	1446.4	1468.5	1494.6	1522.7	1592.9	1695.2	1811.6	1960.0	2106.5	2277.0	2437.5
50°	1344.1	1350.1	1354.2	1366.2	1408.3	1478.5	1572.8	1699.2	1839.6	2022.2	2192.7
52.5°	1253.8	1253.8	1241.8	1235.8	1251.8	1296.0	1350.1	1440.4	1584.9	1753.4	1933.9
55°	1157.6	1139.5	1135.5	1115.4	1119.4	1139.5	1165.6	1235.8	1354.2	1498.6	1673.1
57.5°	1023.1	1015.1	1015.1	1007.1	991.0	1001.1	1007.1	1057.2	1141.5	1265.9	1418.4
60°	868.7	864.7	874.7	876.7	862.6	868.7	866.7	896.8	956.9	1057.2	1183.6
62.5°	714.2	732.2	734.3	742.3	734.3	732.2	742.3	768.4	798.4	874.7	973.0
65°	599.8	609.9	611.9	621.9	617.9	617.9	625.9	646.0	664.0	716.2	792.4
67.5°	525.6	521.6	523.6	529.6	523.6	521.6	527.6	539.7	553.7	585.8	640.0
70°	467.4	463.4	463.4	463.4	455.4	449.4	451.4	455.4	461.4	479.5	513.6
72.5°	423.3	423.3	417.3	411.3	405.2	401.2	397.2	393.2	391.2	397.2	415.3
75°	383.2	385.2	383.2	377.2	369.1	361.1	353.1	345.1	335.0	331.0	333.0
77.5°	347.1	349.1	351.1	349.1	341.0	331.0	319.0	306.9	292.9	278.9	270.8
80°	315.0	319.0	321.0	319.0	313.0	304.9	290.9	276.8	256.8	238.7	218.7
82.5°	286.9	292.9	294.9	294.9	290.9	282.9	266.8	250.8	228.7	204.6	178.5
85°	264.8	268.8	272.8	272.8	270.8	262.8	246.8	228.7	206.6	178.5	150.5
87.5°	242.7	244.8	248.8	252.8	248.8	240.7	226.7	206.6	184.6	156.5	124.4
90°	220.7	222.7	226.7	230.7	228.7	220.7	208.6	190.6	166.5	136.4	104.3
92.5°	198.6	202.6	204.6	206.6	208.6	202.6	192.6	174.5	150.5	120.4	90.3
95°	182.6	182.6	186.6	188.6	190.6	184.6	176.5	158.5	136.4	108.3	78.2
97.5°	166.5	166.5	170.5	170.5	172.5	168.5	160.5	144.4	122.4	96.3	66.2
100°	150.5	152.5	154.5	156.5	156.5	154.5	146.4	130.4	110.3	86.3	58.2
102.5°	140.4	140.4	142.4	142.4	144.4	140.4	132.4	118.4	98.3	76.2	50.2
105°	130.4	130.4	132.4	132.4	130.4	126.4	118.4	106.3	88.3	66.2	44.1
107.5°	122.4	122.4	122.4	122.4	120.4	116.4	108.3	94.3	78.2	60.2	40.1
110°	116.4	114.4	114.4	112.3	110.3	104.3	96.3	84.3	70.2	52.2	34.1



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	110.3	108.3	106.3	104.3	100.3	94.3	86.3	76.2	62.2	46.1	30.1
115°	104.3	102.3	100.3	96.3	92.3	86.3	78.2	68.2	54.2	40.1	26.1
117.5°	98.3	96.3	92.3	88.3	84.3	78.2	70.2	60.2	48.1	36.1	24.1
120°	90.3	88.3	86.3	82.3	78.2	70.2	62.2	54.2	42.1	32.1	20.1
122.5°	84.3	82.3	78.2	76.2	70.2	64.2	56.2	48.1	38.1	28.1	18.1
125°	76.2	74.2	72.2	68.2	64.2	56.2	50.2	42.1	34.1	24.1	14.0
127.5°	70.2	68.2	64.2	60.2	56.2	50.2	44.1	38.1	30.1	20.1	14.0
130°	62.2	60.2	58.2	54.2	50.2	44.1	40.1	32.1	26.1	18.1	12.0
132.5°	54.2	54.2	52.2	48.1	44.1	40.1	34.1	28.1	22.1	16.0	10.0
135°	50.2	48.1	46.1	42.1	40.1	34.1	30.1	24.1	18.1	14.0	8.0
137.5°	44.1	42.1	40.1	38.1	34.1	30.1	26.1	20.1	16.0	12.0	8.0
140°	38.1	36.1	36.1	32.1	30.1	26.1	22.1	18.1	14.0	10.0	6.0
142.5°	34.1	32.1	30.1	28.1	26.1	22.1	18.1	14.0	12.0	8.0	6.0
145°	30.1	28.1	26.1	24.1	22.1	18.1	16.0	12.0	10.0	8.0	6.0
147.5°	24.1	24.1	22.1	20.1	18.1	16.0	14.0	12.0	8.0	6.0	4.0
150°	20.1	20.1	18.1	16.0	16.0	14.0	12.0	10.0	8.0	6.0	4.0
152.5°	18.1	16.0	16.0	14.0	14.0	12.0	10.0	8.0	6.0	6.0	4.0
155°	14.0	14.0	14.0	12.0	12.0	10.0	8.0	8.0	6.0	4.0	4.0
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-LD5-98SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3889.9	3865.9	3885.9	3922.0	3918.0	3914.0	3910.0	3918.0	3944.1	3930.1	3908.0
5°	3883.9	3859.8	3881.9	3916.0	3914.0	3908.0	3904.0	3912.0	3938.1	3924.0	3900.0
7.5°	3871.9	3849.8	3865.9	3900.0	3900.0	3896.0	3891.9	3900.0	3924.0	3912.0	3887.9
10°	3851.8	3835.8	3851.8	3883.9	3885.9	3877.9	3873.9	3883.9	3908.0	3902.0	3881.9
12.5°	3835.8	3819.7	3837.8	3869.9	3871.9	3863.9	3857.8	3869.9	3902.0	3906.0	3900.0
15°	3813.7	3799.7	3821.7	3855.8	3855.8	3849.8	3849.8	3865.9	3910.0	3928.1	3938.1
17.5°	3781.6	3771.6	3797.7	3831.8	3833.8	3829.7	3831.8	3863.9	3922.0	3966.2	3994.3
20°	3741.5	3737.5	3765.6	3801.7	3807.7	3809.7	3819.7	3867.9	3948.1	4008.3	4036.4
22.5°	3693.3	3695.3	3727.4	3765.6	3773.6	3779.6	3799.7	3867.9	3968.2	4032.4	4044.4
25°	3639.2	3645.2	3679.3	3725.4	3735.5	3747.5	3781.6	3869.9	3974.2	4016.3	3996.3
27.5°	3581.0	3593.0	3637.2	3685.3	3697.3	3717.4	3761.5	3857.8	3946.1	3948.1	3873.9
30°	3520.8	3534.8	3587.0	3643.2	3663.2	3683.3	3737.5	3829.7	3877.9	3813.7	3683.3
32.5°	3452.6	3472.7	3524.8	3593.0	3617.1	3643.2	3697.3	3775.6	3757.5	3619.1	3432.5
35°	3366.3	3394.4	3454.6	3534.8	3556.9	3591.0	3629.1	3647.2	3566.9	3370.3	3159.7
37.5°	3260.0	3302.1	3372.3	3464.6	3488.7	3510.8	3520.8	3470.6	3310.2	3097.5	2878.8
40°	3137.6	3201.8	3278.1	3380.4	3404.4	3404.4	3368.3	3262.0	3059.4	2780.5	2537.8
42.5°	2989.2	3067.4	3163.7	3266.0	3290.1	3262.0	3175.7	2989.2	2758.5	2447.5	2190.7
45°	2808.6	2912.9	3021.3	3127.6	3139.6	3077.4	2923.0	2686.2	2401.4	2112.5	1867.7
47.5°	2594.0	2730.4	2848.7	2969.1	2953.1	2848.7	2642.1	2373.3	2072.4	1799.5	1602.9
50°	2353.2	2513.7	2646.1	2760.5	2726.4	2581.9	2339.2	2058.3	1759.4	1526.7	1364.2
52.5°	2096.4	2281.0	2413.4	2505.7	2459.5	2287.0	2020.2	1751.4	1506.6	1294.0	1185.6
55°	1829.6	2016.2	2152.6	2224.8	2164.6	1978.1	1715.3	1470.5	1239.8	1101.4	1037.2
57.5°	1570.8	1745.4	1873.7	1931.9	1855.7	1669.1	1426.4	1219.7	1053.2	936.9	904.8
60°	1322.1	1464.5	1586.9	1631.0	1548.8	1376.2	1167.6	1003.1	880.7	800.5	784.4
62.5°	1091.3	1207.7	1304.0	1338.1	1257.9	1123.4	942.9	820.5	734.3	694.1	674.1
65°	900.8	969.0	1067.3	1061.3	1013.1	888.7	756.3	670.1	613.9	587.8	575.8
67.5°	708.2	770.4	832.6	840.6	780.4	694.1	607.9	545.7	515.6	501.5	495.5
70°	547.7	593.8	631.9	621.9	589.8	535.6	481.5	447.4	435.3	429.3	429.3
72.5°	425.3	449.4	467.4	455.4	435.3	407.2	381.2	367.1	369.1	373.1	377.2
75°	329.0	335.0	339.0	327.0	323.0	304.9	302.9	304.9	317.0	329.0	335.0
77.5°	252.8	244.8	238.7	226.7	228.7	226.7	236.7	252.8	270.8	288.9	304.9
80°	194.6	176.5	162.5	150.5	156.5	166.5	186.6	210.6	234.7	254.8	274.8
82.5°	150.5	124.4	104.3	92.3	104.3	120.4	146.4	176.5	204.6	226.7	248.8
85°	116.4	86.3	62.2	50.2	62.2	86.3	114.4	148.5	178.5	202.6	224.7
87.5°	90.3	62.2	34.1	20.1	34.1	60.2	92.3	124.4	154.5	182.6	204.6
90°	72.2	42.1	16.0	4.0	18.1	42.1	72.2	104.3	134.4	164.5	186.6
92.5°	58.2	30.1	8.0	0.0	10.0	32.1	60.2	90.3	120.4	148.5	170.5
95°	48.1	24.1	6.0	0.0	8.0	24.1	48.1	78.2	106.3	134.4	152.5
97.5°	40.1	18.1	4.0	0.0	4.0	20.1	40.1	66.2	94.3	120.4	138.4
100°	34.1	16.0	4.0	0.0	4.0	16.0	34.1	58.2	82.3	106.3	124.4
102.5°	28.1	12.0	2.0	2.0	2.0	12.0	30.1	50.2	72.2	94.3	112.3
105°	26.1	10.0	2.0	2.0	2.0	10.0	26.1	44.1	64.2	84.3	100.3
107.5°	22.1	8.0	2.0	2.0	2.0	8.0	22.1	38.1	58.2	76.2	90.3
110°	18.1	8.0	2.0	2.0	2.0	8.0	18.1	34.1	50.2	66.2	80.2



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	16.0	6.0	2.0	2.0	2.0	6.0	16.0	30.1	44.1	60.2	72.2
115°	14.0	6.0	2.0	2.0	2.0	6.0	14.0	26.1	38.1	52.2	64.2
117.5°	12.0	6.0	2.0	2.0	2.0	4.0	12.0	22.1	34.1	46.1	58.2
120°	10.0	4.0	2.0	2.0	2.0	4.0	10.0	20.1	30.1	40.1	50.2
122.5°	10.0	4.0	2.0	2.0	2.0	4.0	8.0	16.0	26.1	34.1	44.1
125°	8.0	4.0	2.0	2.0	2.0	2.0	8.0	14.0	22.1	30.1	38.1
127.5°	8.0	4.0	2.0	2.0	2.0	2.0	6.0	12.0	18.1	26.1	34.1
130°	6.0	4.0	2.0	2.0	2.0	2.0	4.0	10.0	16.0	22.1	28.1
132.5°	6.0	4.0	2.0	2.0	2.0	2.0	4.0	8.0	12.0	18.1	24.1
135°	6.0	2.0	2.0	2.0	2.0	2.0	2.0	6.0	10.0	14.0	18.1
137.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	8.0	10.0	16.0
140°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.0	12.0
142.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	10.0
145°	4.0	2.0	2.0	4.0	4.0	2.0	2.0	4.0	4.0	6.0	8.0
147.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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-LD5-98SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3904.0	3857.8	3881.9	3873.9	3881.9	3902.0	3900.0	3893.9	3898.0	3887.9	3877.9
5°	3896.0	3849.8	3873.9	3863.9	3873.9	3893.9	3889.9	3883.9	3889.9	3877.9	3867.9
7.5°	3885.9	3843.8	3871.9	3869.9	3887.9	3914.0	3916.0	3916.0	3930.1	3912.0	3904.0
10°	3885.9	3863.9	3902.0	3916.0	3962.2	3996.3	4000.3	4008.3	4032.4	4028.4	4008.3
12.5°	3928.1	3924.0	3980.2	4014.3	4056.4	4104.6	4130.7	4138.7	4154.7	4142.7	4134.7
15°	3982.2	4002.3	4064.5	4102.6	4148.7	4184.8	4190.9	4194.9	4206.9	4188.9	4174.8
17.5°	4054.4	4066.5	4116.6	4132.7	4162.8	4168.8	4160.8	4140.7	4140.7	4100.6	4088.5
20°	4088.5	4082.5	4102.6	4076.5	4064.5	4028.4	3994.3	3956.1	3954.1	3912.0	3908.0
22.5°	4058.5	4018.3	3976.2	3912.0	3883.9	3831.8	3785.6	3763.5	3749.5	3695.3	3681.3
25°	3952.1	3853.8	3791.6	3715.4	3647.2	3587.0	3542.9	3496.7	3452.6	3408.5	3388.4
27.5°	3767.6	3675.3	3575.0	3468.6	3374.4	3282.1	3207.8	3161.7	3119.6	3061.4	3031.3
30°	3540.9	3412.5	3302.1	3199.8	3045.3	2933.0	2870.8	2778.5	2746.4	2720.3	2664.2
32.5°	3274.0	3119.6	2969.1	2830.7	2672.2	2567.9	2485.6	2417.4	2397.4	2329.1	2313.1
35°	2979.1	2776.5	2606.0	2469.6	2355.2	2228.8	2160.6	2114.5	2074.4	2028.2	2020.2
37.5°	2632.1	2449.5	2256.9	2136.6	2046.3	1937.9	1885.8	1853.7	1835.6	1801.5	1795.5
40°	2283.0	2100.4	1968.0	1847.7	1791.5	1733.3	1695.2	1681.2	1673.1	1661.1	1649.1
42.5°	1966.0	1805.5	1711.3	1631.0	1606.9	1578.8	1568.8	1576.8	1568.8	1564.8	1562.8
45°	1697.2	1574.8	1508.6	1484.6	1478.5	1470.5	1478.5	1492.6	1494.6	1490.6	1490.6
47.5°	1452.5	1394.3	1366.2	1370.2	1380.2	1386.3	1400.3	1418.4	1422.4	1412.3	1416.3
50°	1292.0	1257.9	1251.8	1267.9	1290.0	1298.0	1314.0	1328.1	1326.1	1322.1	1318.0
52.5°	1141.5	1131.5	1147.5	1163.6	1187.6	1191.7	1197.7	1203.7	1201.7	1193.7	1189.6
55°	1015.1	1023.1	1037.2	1043.2	1061.3	1059.2	1061.3	1061.3	1053.2	1049.2	1043.2
57.5°	900.8	902.8	910.8	912.8	922.8	918.8	916.8	912.8	900.8	898.8	892.7
60°	784.4	780.4	798.4	784.4	792.4	784.4	782.4	772.4	760.3	758.3	754.3
62.5°	674.1	666.0	678.1	672.1	676.1	668.0	664.0	652.0	642.0	640.0	638.0
65°	575.8	571.8	583.8	581.8	585.8	575.8	571.8	563.7	555.7	553.7	551.7
67.5°	493.5	503.5	509.6	509.6	513.6	511.6	501.5	499.5	497.5	489.5	489.5
70°	433.3	439.3	451.4	453.4	451.4	455.4	447.4	445.4	443.4	439.3	437.3
72.5°	385.2	393.2	405.2	407.2	405.2	405.2	401.2	399.2	399.2	393.2	393.2
75°	347.1	357.1	367.1	367.1	367.1	363.1	359.1	359.1	355.1	353.1	349.1
77.5°	315.0	327.0	335.0	333.0	331.0	327.0	327.0	321.0	315.0	315.0	311.0
80°	290.9	298.9	304.9	302.9	300.9	294.9	292.9	286.9	282.9	276.8	276.8
82.5°	264.8	274.8	278.9	276.8	272.8	266.8	264.8	260.8	256.8	254.8	250.8
85°	242.7	252.8	254.8	250.8	246.8	242.7	240.7	238.7	236.7	232.7	232.7
87.5°	220.7	230.7	230.7	228.7	224.7	222.7	220.7	218.7	216.7	214.7	212.7
90°	202.6	210.6	210.6	208.6	206.6	204.6	202.6	200.6	198.6	196.6	196.6
92.5°	184.6	192.6	192.6	190.6	188.6	186.6	186.6	184.6	182.6	180.6	178.5
95°	168.5	176.5	176.5	176.5	174.5	172.5	172.5	170.5	168.5	168.5	166.5
97.5°	152.5	160.5	160.5	160.5	158.5	156.5	156.5	154.5	154.5	154.5	152.5
100°	138.4	144.4	146.4	146.4	144.4	144.4	144.4	142.4	142.4	142.4	140.4
102.5°	124.4	130.4	134.4	134.4	134.4	132.4	132.4	132.4	132.4	132.4	130.4
105°	112.3	118.4	122.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4
107.5°	102.3	108.3	112.3	114.4	116.4	116.4	118.4	118.4	118.4	118.4	118.4
110°	92.3	98.3	104.3	106.3	108.3	110.3	110.3	112.3	110.3	110.3	110.3



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	82.3	90.3	94.3	98.3	100.3	102.3	104.3	104.3	104.3	104.3	104.3
115°	74.2	82.3	86.3	90.3	94.3	96.3	96.3	98.3	98.3	98.3	96.3
117.5°	66.2	74.2	78.2	82.3	84.3	88.3	90.3	90.3	90.3	90.3	88.3
120°	60.2	66.2	70.2	74.2	78.2	80.2	82.3	82.3	82.3	82.3	82.3
122.5°	52.2	58.2	64.2	68.2	70.2	72.2	74.2	74.2	74.2	74.2	74.2
125°	46.1	52.2	56.2	60.2	62.2	66.2	66.2	66.2	66.2	66.2	66.2
127.5°	40.1	46.1	50.2	54.2	56.2	58.2	60.2	60.2	60.2	60.2	60.2
130°	34.1	40.1	44.1	48.1	50.2	52.2	52.2	54.2	54.2	54.2	54.2
132.5°	30.1	34.1	38.1	42.1	44.1	46.1	46.1	48.1	48.1	48.1	48.1
135°	24.1	30.1	32.1	36.1	38.1	40.1	40.1	42.1	42.1	42.1	42.1
137.5°	20.1	24.1	28.1	32.1	34.1	34.1	36.1	36.1	38.1	38.1	38.1
140°	16.0	18.1	24.1	26.1	28.1	30.1	32.1	32.1	32.1	32.1	32.1
142.5°	12.0	16.0	18.1	22.1	24.1	26.1	28.1	28.1	28.1	28.1	28.1
145°	10.0	12.0	14.0	18.1	20.1	22.1	24.1	24.1	24.1	24.1	24.1
147.5°	8.0	10.0	12.0	14.0	16.0	18.1	20.1	20.1	20.1	20.1	20.1
150°	6.0	8.0	10.0	10.0	12.0	14.0	16.0	18.1	18.1	18.1	18.1
152.5°	6.0	6.0	8.0	8.0	10.0	12.0	14.0	14.0	14.0	14.0	14.0
155°	4.0	6.0	6.0	6.0	8.0	8.0	10.0	12.0	12.0	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-LD5-98SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3883.9	3891.9	3887.9	3881.9	3879.9	3889.9	3879.9	3833.8	3851.8	3853.8	3867.9
5°	3877.9	3883.9	3879.9	3875.9	3869.9	3881.9	3869.9	3821.7	3839.8	3841.8	3855.8
7.5°	3918.0	3920.0	3920.0	3910.0	3893.9	3900.0	3883.9	3829.7	3839.8	3839.8	3849.8
10°	4018.3	4022.3	4028.4	4002.3	3982.2	3966.2	3944.1	3877.9	3875.9	3859.8	3859.8
12.5°	4148.7	4138.7	4128.7	4116.6	4100.6	4080.5	4048.4	3970.2	3944.1	3918.0	3891.9
15°	4186.8	4182.8	4180.8	4174.8	4164.8	4158.8	4134.7	4056.4	4018.3	3986.2	3940.1
17.5°	4086.5	4094.6	4120.6	4122.6	4134.7	4158.8	4154.7	4100.6	4066.5	4052.4	3996.3
20°	3906.0	3908.0	3940.1	3954.1	4006.3	4046.4	4076.5	4070.5	4062.5	4078.5	4036.4
22.5°	3689.3	3703.4	3737.5	3759.5	3809.7	3855.8	3904.0	3930.1	3972.2	4038.4	4030.4
25°	3394.4	3412.5	3460.6	3496.7	3566.9	3637.2	3701.4	3747.5	3797.7	3924.0	3966.2
27.5°	3041.3	3069.4	3131.6	3167.7	3266.0	3338.2	3430.5	3520.8	3591.0	3735.5	3821.7
30°	2670.2	2694.3	2760.5	2810.6	2894.9	2993.2	3109.5	3237.9	3354.3	3500.7	3609.1
32.5°	2323.1	2349.2	2403.4	2447.5	2541.8	2624.1	2752.4	2910.9	3019.3	3221.9	3366.3
35°	2020.2	2044.3	2082.4	2120.5	2198.7	2283.0	2393.3	2547.8	2686.2	2896.9	3079.4
37.5°	1807.5	1811.6	1833.6	1855.7	1913.9	1978.1	2064.3	2200.8	2329.1	2555.8	2756.5
40°	1655.1	1655.1	1667.1	1673.1	1699.2	1737.3	1791.5	1897.8	2004.1	2176.7	2421.4
42.5°	1560.8	1556.8	1556.8	1558.8	1556.8	1574.8	1606.9	1657.1	1751.4	1893.8	2084.4
45°	1490.6	1482.5	1476.5	1462.5	1454.5	1454.5	1456.5	1474.5	1528.7	1621.0	1775.4
47.5°	1412.3	1410.3	1400.3	1384.2	1370.2	1360.2	1344.1	1338.1	1354.2	1406.3	1510.6
50°	1322.1	1312.0	1302.0	1290.0	1273.9	1263.9	1233.8	1235.8	1221.7	1245.8	1300.0
52.5°	1189.6	1181.6	1177.6	1167.6	1161.6	1157.6	1133.5	1109.4	1103.4	1107.4	1127.5
55°	1043.2	1047.2	1031.2	1039.2	1037.2	1019.1	1009.1	991.0	985.0	983.0	993.0
57.5°	890.7	894.7	884.7	892.7	892.7	882.7	876.7	876.7	862.6	850.6	864.7
60°	752.3	744.3	750.3	760.3	760.3	754.3	750.3	750.3	740.3	736.3	746.3
62.5°	640.0	631.9	638.0	648.0	650.0	646.0	642.0	642.0	629.9	629.9	638.0
65°	553.7	555.7	553.7	561.7	561.7	563.7	559.7	555.7	541.7	547.7	545.7
67.5°	491.5	489.5	489.5	497.5	495.5	499.5	495.5	489.5	479.5	471.4	469.4
70°	439.3	437.3	437.3	441.4	443.4	443.4	441.4	437.3	423.3	415.3	409.3
72.5°	393.2	391.2	393.2	395.2	397.2	399.2	397.2	393.2	381.2	371.1	361.1
75°	351.1	349.1	355.1	355.1	357.1	357.1	359.1	357.1	347.1	335.0	323.0
77.5°	308.9	311.0	317.0	319.0	323.0	325.0	327.0	327.0	317.0	306.9	290.9
80°	274.8	278.9	282.9	284.9	288.9	294.9	296.9	298.9	290.9	280.9	262.8
82.5°	250.8	252.8	256.8	258.8	264.8	266.8	268.8	272.8	268.8	258.8	238.7
85°	230.7	232.7	236.7	236.7	240.7	244.8	246.8	248.8	246.8	236.7	216.7
87.5°	212.7	214.7	216.7	218.7	220.7	222.7	224.7	226.7	224.7	214.7	196.6
90°	196.6	196.6	198.6	198.6	200.6	202.6	206.6	206.6	204.6	196.6	178.5
92.5°	178.5	180.6	180.6	182.6	184.6	186.6	188.6	188.6	186.6	178.5	162.5
95°	166.5	166.5	168.5	168.5	170.5	170.5	172.5	172.5	170.5	162.5	146.4
97.5°	152.5	152.5	152.5	152.5	154.5	154.5	156.5	156.5	154.5	146.4	132.4
100°	140.4	140.4	140.4	140.4	140.4	142.4	142.4	142.4	140.4	132.4	118.4
102.5°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	126.4	120.4	106.3
105°	124.4	124.4	124.4	122.4	122.4	122.4	120.4	120.4	114.4	108.3	96.3
107.5°	116.4	116.4	116.4	114.4	114.4	112.3	110.3	110.3	104.3	98.3	86.3
110°	110.3	110.3	110.3	108.3	106.3	104.3	102.3	100.3	94.3	86.3	76.2



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.3	104.3	102.3	102.3	100.3	98.3	94.3	92.3	86.3	78.2	68.2
115°	96.3	96.3	96.3	94.3	92.3	90.3	88.3	84.3	78.2	70.2	60.2
117.5°	88.3	88.3	88.3	86.3	84.3	82.3	80.2	76.2	70.2	62.2	54.2
120°	80.2	80.2	80.2	78.2	76.2	74.2	72.2	68.2	62.2	56.2	46.1
122.5°	74.2	74.2	72.2	70.2	68.2	66.2	64.2	60.2	56.2	48.1	40.1
125°	66.2	66.2	64.2	64.2	62.2	60.2	58.2	54.2	48.1	42.1	36.1
127.5°	60.2	58.2	58.2	58.2	56.2	54.2	50.2	48.1	42.1	36.1	30.1
130°	52.2	52.2	52.2	50.2	50.2	48.1	44.1	40.1	36.1	32.1	26.1
132.5°	46.1	46.1	46.1	46.1	44.1	42.1	38.1	36.1	32.1	26.1	22.1
135°	42.1	42.1	40.1	40.1	38.1	36.1	34.1	30.1	26.1	22.1	18.1
137.5°	36.1	36.1	36.1	34.1	34.1	32.1	28.1	26.1	24.1	20.1	16.0
140°	32.1	32.1	30.1	30.1	28.1	28.1	26.1	22.1	20.1	16.0	14.0
142.5°	28.1	28.1	26.1	26.1	24.1	24.1	22.1	20.1	16.0	14.0	10.0
145°	24.1	24.1	22.1	22.1	22.1	20.1	18.1	16.0	14.0	12.0	10.0
147.5°	20.1	20.1	20.1	18.1	18.1	16.0	16.0	14.0	12.0	10.0	8.0
150°	18.1	18.1	16.0	16.0	16.0	14.0	12.0	12.0	10.0	8.0	6.0
152.5°	14.0	14.0	14.0	14.0	12.0	12.0	10.0	10.0	8.0	6.0	6.0
155°	12.0	12.0	12.0	10.0	10.0	10.0	8.0	8.0	6.0	6.0	4.0
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-LD5-98SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3861.8	3859.8	3877.9	3875.9	3851.8	3887.9	3912.0
5°	3851.8	3849.8	3865.9	3869.9	3843.8	3881.9	3908.0
7.5°	3843.8	3841.8	3859.8	3865.9	3839.8	3873.9	3902.0
10°	3845.8	3835.8	3851.8	3855.8	3831.8	3867.9	3891.9
12.5°	3859.8	3835.8	3841.8	3841.8	3819.7	3851.8	3877.9
15°	3893.9	3843.8	3835.8	3829.7	3801.7	3831.8	3857.8
17.5°	3932.1	3863.9	3835.8	3815.7	3781.6	3807.7	3835.8
20°	3970.2	3885.9	3839.8	3807.7	3761.5	3785.6	3805.7
22.5°	3988.2	3906.0	3843.8	3795.6	3737.5	3749.5	3771.6
25°	3964.2	3898.0	3835.8	3777.6	3707.4	3709.4	3727.4
27.5°	3875.9	3857.8	3817.7	3759.5	3683.3	3673.3	3687.3
30°	3725.4	3775.6	3777.6	3735.5	3655.2	3635.2	3641.2
32.5°	3514.8	3627.1	3693.3	3685.3	3615.1	3587.0	3591.0
35°	3272.0	3412.5	3556.9	3605.1	3554.9	3532.8	3524.8
37.5°	2981.1	3169.7	3362.3	3480.7	3472.7	3458.6	3450.6
40°	2660.2	2886.9	3115.6	3304.1	3362.3	3362.3	3366.3
42.5°	2317.1	2581.9	2832.7	3071.4	3207.8	3237.9	3250.0
45°	1986.1	2252.9	2525.7	2800.6	2983.2	3077.4	3111.5
47.5°	1685.2	1954.0	2212.8	2513.7	2756.5	2878.8	2933.0
50°	1428.4	1629.0	1901.8	2200.8	2465.6	2616.0	2722.4
52.5°	1215.7	1372.2	1610.9	1889.8	2156.6	2363.3	2461.6
55°	1037.2	1143.5	1346.1	1586.9	1841.7	2056.3	2170.7
57.5°	886.7	971.0	1109.4	1310.0	1524.7	1737.3	1859.7
60°	754.3	812.5	906.8	1065.3	1247.8	1430.4	1548.8
62.5°	640.0	678.1	740.3	856.6	999.1	1141.5	1251.8
65°	551.7	567.7	601.8	674.1	782.4	890.7	985.0
67.5°	465.4	475.5	501.5	545.7	599.8	678.1	740.3
70°	401.2	401.2	403.2	429.3	457.4	507.6	551.7
72.5°	349.1	343.1	331.0	337.0	343.1	371.1	399.2
75°	306.9	292.9	272.8	264.8	260.8	264.8	280.9
77.5°	270.8	250.8	226.7	206.6	190.6	184.6	198.6
80°	240.7	216.7	188.6	162.5	136.4	122.4	128.4
82.5°	216.7	186.6	156.5	126.4	96.3	76.2	76.2
85°	190.6	162.5	130.4	98.3	68.2	42.1	38.1
87.5°	172.5	142.4	108.3	78.2	48.1	22.1	12.0
90°	154.5	124.4	92.3	62.2	34.1	10.0	0.0
92.5°	138.4	110.3	80.2	50.2	24.1	6.0	0.0
95°	124.4	98.3	68.2	42.1	20.1	4.0	2.0
97.5°	110.3	86.3	60.2	34.1	14.0	4.0	2.0
100°	100.3	76.2	52.2	28.1	12.0	2.0	2.0
102.5°	88.3	68.2	44.1	24.1	10.0	2.0	2.0
105°	78.2	60.2	38.1	20.1	8.0	2.0	2.0
107.5°	70.2	52.2	34.1	18.1	8.0	2.0	2.0
110°	62.2	46.1	30.1	16.0	6.0	2.0	2.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	56.2	40.1	26.1	14.0	4.0	2.0	2.0
115°	48.1	36.1	22.1	12.0	4.0	2.0	2.0
117.5°	42.1	30.1	20.1	10.0	4.0	2.0	2.0
120°	36.1	26.1	16.0	8.0	2.0	2.0	2.0
122.5°	32.1	22.1	14.0	8.0	2.0	2.0	2.0
125°	28.1	20.1	12.0	6.0	2.0	2.0	2.0
127.5°	24.1	16.0	10.0	4.0	2.0	2.0	2.0
130°	20.1	14.0	8.0	4.0	2.0	2.0	2.0
132.5°	16.0	12.0	8.0	4.0	2.0	2.0	2.0
135°	14.0	10.0	6.0	4.0	2.0	2.0	2.0
137.5°	12.0	8.0	4.0	4.0	4.0	2.0	2.0
140°	10.0	6.0	4.0	4.0	4.0	4.0	2.0
142.5°	8.0	6.0	4.0	4.0	4.0	4.0	2.0
145°	6.0	4.0	4.0	4.0	4.0	4.0	2.0
147.5°	6.0	4.0	4.0	4.0	4.0	4.0	2.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)