

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-LD5-130HL-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-LD5-130HL-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: 10488.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

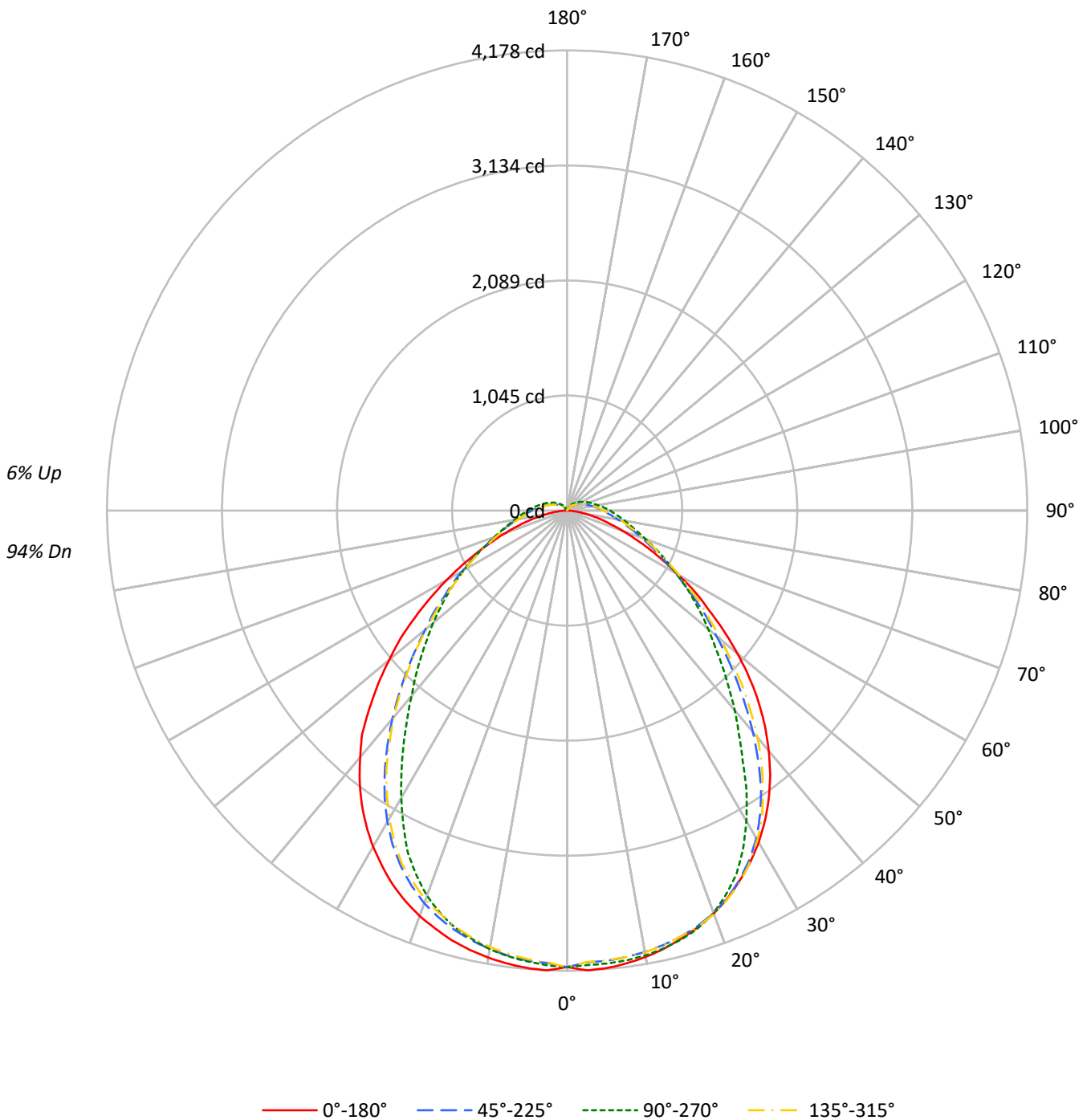
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-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	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°	16745	16745	16745	16745
5°	16887	16212	16887	16140
10°	16835	15781	16863	15561
15°	16751	15309	16827	14911
20°	16647	14703	16744	14082
25°	16405	13804	16587	12991
30°	16085	12482	16295	11556
35°	15571	10863	15871	10115
40°	14823	9500	15215	8814
45°	13826	8259	14275	7785
50°	12449	7257	12998	6891
55°	10807	6408	11592	6084
60°	9129	5626	9955	5303
65°	7528	4975	8288	4612
70°	6042	4415	6765	4083
75°	4809	4076	5414	3750
80°	3557	3933	4189	3594
85°	2333	3955	3139	3636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	3.7
10°-20°	1126.6	10.7
20°-30°	1669.7	15.9
30°-40°	1855.0	17.7
40°-50°	1681.5	16.0
50°-60°	1303.0	12.4
60°-70°	884.8	8.4
70°-80°	562.9	5.4
80°-90°	359.9	3.4
90°-100°	242.6	2.3
100°-110°	166.2	1.6
110°-120°	110.9	1.1
120°-130°	69.0	0.7
130°-140°	38.1	0.4
140°-150°	17.9	0.2
150°-160°	6.6	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	3189.2	30.4
0°-40°	5044.2	48.1
0°-60°	8028.7	76.6
0°-90°	9836.3	93.8
90°-120°	519.7	5.0
90°-150°	644.7	6.1
90°-180°	652.0	6.2
0°-180°	10488.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4144	4144	4144	4144	4144	
5°	4169	4128	4169	4110	4169	396
15°	4021	4028	4039	3923	4021	1135
25°	3707	3638	3748	3424	3707	1707
35°	3191	2781	3253	2590	3191	1991
45°	2457	1988	2537	1874	2457	1887
55°	1568	1397	1682	1327	1568	1412
65°	814	939	896	871	814	816
75°	326	627	367	577	326	351
85°	59	451	80	415	59	71
90°	0	390	5	356	0	3
95°	2	333	0	310	2	2
105°	2	244	0	230	2	2
115°	2	185	0	171	2	2
125°	2	137	2	121	2	2
135°	2	96	2	78	2	2
145°	2	62	2	43	2	1
155°	2	34	2	16	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-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4178.4	4173.9	4169.3	4162.5	4169.3	4187.6	4176.2	4151.1	4146.5	4105.5	4123.7
5°	4169.3	4162.5	4157.9	4151.1	4160.2	4183.0	4171.6	4148.8	4142.0	4103.2	4123.7
7.5°	4146.5	4142.0	4135.1	4135.1	4144.2	4167.0	4157.9	4132.8	4128.3	4089.5	4112.3
10°	4114.6	4112.3	4107.8	4107.8	4116.9	4144.2	4132.8	4110.1	4105.5	4069.0	4094.1
12.5°	4073.6	4075.9	4069.0	4069.0	4082.7	4110.1	4100.9	4075.9	4071.3	4039.4	4064.5
15°	4021.2	4023.4	4018.9	4021.2	4034.8	4066.7	4055.3	4032.5	4028.0	4002.9	4023.4
17.5°	3961.9	3964.2	3964.2	3961.9	3977.8	4009.8	4000.6	3980.1	3973.3	3952.8	3977.8
20°	3893.5	3893.5	3893.5	3893.5	3911.7	3943.6	3932.2	3916.3	3902.6	3886.7	3907.2
22.5°	3809.2	3806.9	3809.2	3816.0	3834.2	3859.3	3852.5	3834.2	3813.7	3804.6	3820.5
25°	3706.6	3713.4	3715.7	3722.5	3745.3	3765.8	3759.0	3740.8	3708.9	3702.0	3706.6
27.5°	3599.4	3604.0	3610.8	3608.5	3640.5	3661.0	3647.3	3631.3	3585.8	3578.9	3574.4
30°	3478.6	3485.5	3490.0	3487.7	3512.8	3535.6	3521.9	3501.4	3439.9	3435.3	3398.8
32.5°	3341.8	3348.7	3353.2	3353.2	3389.7	3398.8	3373.8	3344.1	3278.0	3262.1	3230.1
35°	3191.4	3198.2	3200.5	3200.5	3237.0	3234.7	3202.8	3161.8	3088.8	3068.3	3013.6
37.5°	3029.5	3034.1	3036.4	3050.1	3066.0	3052.3	3011.3	2958.9	2904.2	2847.2	2787.9
40°	2847.2	2854.0	2858.6	2867.7	2883.6	2867.7	2808.4	2744.6	2685.3	2621.5	2562.2
42.5°	2660.3	2680.8	2676.2	2673.9	2683.0	2639.7	2594.1	2521.2	2461.9	2395.8	2336.6
45°	2457.4	2455.1	2466.5	2471.0	2468.8	2432.3	2368.5	2302.4	2243.1	2174.7	2124.6
47.5°	2243.1	2240.8	2249.9	2254.5	2240.8	2202.1	2151.9	2076.7	2026.5	1967.3	1928.5
50°	2017.4	2017.4	2031.1	2017.4	2010.6	1971.8	1930.8	1855.6	1816.8	1764.4	1741.6
52.5°	1791.7	1812.3	1798.6	1794.0	1787.2	1748.4	1716.5	1655.0	1623.0	1600.3	1572.9
55°	1568.3	1591.1	1582.0	1575.2	1572.9	1541.0	1511.4	1465.8	1445.2	1429.3	1413.3
57.5°	1379.1	1376.9	1372.3	1365.5	1367.7	1342.7	1313.0	1288.0	1278.8	1272.0	1276.6
60°	1160.3	1178.5	1171.7	1174.0	1176.3	1171.7	1146.6	1130.7	1132.9	1135.2	1142.1
62.5°	980.2	996.2	1007.6	998.4	1003.0	1009.8	996.2	991.6	1000.7	1009.8	1019.0
65°	813.8	829.8	841.2	838.9	852.6	866.2	864.0	868.5	889.0	900.4	911.8
67.5°	663.4	679.3	695.3	697.5	718.1	738.6	747.7	763.7	786.4	802.4	816.1
70°	533.4	547.1	565.3	576.7	604.1	631.4	647.4	679.3	693.0	715.8	724.9
72.5°	417.2	428.6	453.6	481.0	503.8	538.0	569.9	597.2	617.8	642.8	654.2
75°	326.0	330.5	357.9	389.8	421.7	460.5	494.7	524.3	551.7	576.7	595.0
77.5°	239.4	246.2	271.3	314.6	351.1	392.1	430.8	462.8	492.4	517.5	542.5
80°	166.4	180.1	207.4	250.8	291.8	337.4	373.8	410.3	442.2	467.3	492.4
82.5°	107.1	118.5	157.3	200.6	243.9	289.5	328.3	364.7	398.9	426.3	449.1
85°	59.3	75.2	114.0	159.6	202.9	248.5	289.5	326.0	360.2	385.2	408.0
87.5°	22.8	45.6	82.1	125.4	168.7	212.0	255.3	289.5	323.7	351.1	371.6
90°	0.0	27.4	61.5	104.9	148.2	191.5	232.5	269.0	300.9	326.0	348.8
92.5°	2.3	18.2	47.9	84.3	125.4	166.4	205.2	241.6	273.5	298.6	319.1
95°	2.3	13.7	38.8	72.9	109.4	148.2	184.6	218.8	248.5	273.5	294.1
97.5°	2.3	9.1	31.9	63.8	95.7	134.5	168.7	200.6	228.0	253.0	269.0
100°	2.3	9.1	27.4	54.7	86.6	120.8	152.7	184.6	209.7	230.2	248.5
102.5°	2.3	6.8	22.8	47.9	77.5	107.1	139.1	168.7	191.5	212.0	230.2
105°	2.3	6.8	20.5	41.0	68.4	98.0	125.4	152.7	177.8	196.0	212.0
107.5°	2.3	4.6	18.2	34.2	59.3	88.9	116.3	139.1	161.8	180.1	196.0
110°	2.3	4.6	16.0	31.9	52.4	79.8	104.9	127.7	148.2	166.4	180.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.3	4.6	13.7	29.6	47.9	70.7	95.7	116.3	136.8	152.7	166.4
115°	2.3	4.6	13.7	27.4	43.3	61.5	84.3	107.1	123.1	141.3	152.7
117.5°	2.3	4.6	11.4	22.8	41.0	57.0	77.5	95.7	114.0	129.9	141.3
120°	2.3	4.6	11.4	20.5	36.5	52.4	68.4	86.6	104.9	116.3	127.7
122.5°	2.3	4.6	9.1	20.5	31.9	47.9	61.5	77.5	93.5	107.1	118.5
125°	2.3	4.6	9.1	18.2	29.6	43.3	57.0	68.4	84.3	95.7	107.1
127.5°	2.3	4.6	9.1	16.0	27.4	38.8	52.4	63.8	75.2	86.6	95.7
130°	2.3	4.6	6.8	13.7	25.1	34.2	45.6	59.3	68.4	77.5	86.6
132.5°	2.3	4.6	6.8	13.7	20.5	29.6	41.0	52.4	61.5	70.7	77.5
135°	2.3	4.6	6.8	11.4	18.2	27.4	34.2	45.6	54.7	63.8	70.7
137.5°	2.3	4.6	6.8	11.4	16.0	22.8	29.6	38.8	47.9	54.7	63.8
140°	2.3	4.6	6.8	9.1	13.7	20.5	27.4	31.9	41.0	47.9	54.7
142.5°	2.3	4.6	6.8	9.1	13.7	18.2	22.8	27.4	34.2	41.0	47.9
145°	2.3	4.6	6.8	9.1	11.4	16.0	20.5	25.1	27.4	34.2	38.8
147.5°	2.3	4.6	6.8	9.1	9.1	13.7	18.2	20.5	25.1	27.4	31.9
150°	2.3	4.6	6.8	6.8	9.1	11.4	16.0	18.2	20.5	25.1	27.4
152.5°	2.3	4.6	6.8	6.8	9.1	11.4	13.7	16.0	18.2	20.5	22.8
155°	2.3	4.6	6.8	6.8	6.8	9.1	11.4	13.7	16.0	18.2	20.5
157.5°	4.6	4.6	4.6	6.8	6.8	9.1	9.1	11.4	13.7	13.7	16.0
160°	4.6	4.6	4.6	6.8	6.8	6.8	9.1	9.1	11.4	11.4	13.7
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°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4119.2	4126.0	4146.5	4146.5	4142.0	4137.4	4137.4	4130.6	4135.1	4144.2	4139.7
5°	4119.2	4126.0	4146.5	4146.5	4142.0	4137.4	4135.1	4128.3	4135.1	4144.2	4139.7
7.5°	4105.5	4114.6	4135.1	4135.1	4130.6	4128.3	4123.7	4119.2	4126.0	4135.1	4130.6
10°	4087.3	4096.4	4116.9	4116.9	4112.3	4112.3	4105.5	4100.9	4110.1	4116.9	4114.6
12.5°	4059.9	4071.3	4089.5	4087.3	4082.7	4085.0	4078.1	4069.0	4078.1	4085.0	4087.3
15°	4021.2	4034.8	4053.1	4048.5	4041.7	4046.2	4034.8	4028.0	4034.8	4048.5	4046.2
17.5°	3971.0	3980.1	3993.8	3993.8	3987.0	3982.4	3977.8	3971.0	3975.6	3984.7	3987.0
20°	3900.3	3911.7	3918.6	3911.7	3909.5	3902.6	3893.5	3886.7	3895.8	3909.5	3911.7
22.5°	3806.9	3809.2	3825.1	3809.2	3797.8	3795.5	3786.4	3772.7	3786.4	3797.8	3800.0
25°	3690.6	3702.0	3695.2	3667.8	3667.8	3649.6	3645.0	3638.2	3640.5	3661.0	3670.1
27.5°	3542.4	3547.0	3528.8	3506.0	3485.5	3474.1	3458.1	3460.4	3460.4	3487.7	3496.9
30°	3380.6	3355.5	3339.6	3303.1	3287.1	3259.8	3255.2	3255.2	3250.7	3264.3	3305.4
32.5°	3186.8	3152.6	3127.6	3093.4	3066.0	3038.7	3025.0	3031.8	3029.5	3063.7	3077.4
35°	2974.8	2954.3	2901.9	2858.6	2842.6	2801.6	2801.6	2781.1	2794.7	2833.5	2849.5
37.5°	2751.4	2719.5	2676.2	2628.3	2616.9	2585.0	2573.6	2562.2	2591.9	2598.7	2614.7
40°	2523.5	2493.8	2452.8	2407.2	2407.2	2368.5	2368.5	2368.5	2370.7	2384.4	2414.1
42.5°	2306.9	2275.0	2238.5	2206.6	2202.1	2172.4	2172.4	2170.1	2174.7	2186.1	2213.5
45°	2097.2	2072.1	2033.4	2017.4	2019.7	1987.8	1994.6	1987.8	1996.9	2008.3	2017.4
47.5°	1903.4	1887.5	1871.5	1848.7	1841.9	1839.6	1828.2	1819.1	1835.0	1835.0	1848.7
50°	1723.4	1714.2	1705.1	1691.4	1693.7	1684.6	1670.9	1670.9	1682.3	1684.6	1693.7
52.5°	1566.1	1554.7	1543.3	1545.5	1547.8	1543.3	1536.4	1529.6	1536.4	1541.0	1552.4
55°	1408.8	1399.7	1411.1	1406.5	1411.1	1406.5	1401.9	1397.4	1408.8	1401.9	1413.3
57.5°	1267.4	1276.6	1281.1	1272.0	1278.8	1274.3	1276.6	1269.7	1278.8	1283.4	1281.1
60°	1137.5	1151.2	1144.3	1146.6	1155.7	1151.2	1142.1	1148.9	1158.0	1160.3	1158.0
62.5°	1019.0	1034.9	1041.8	1037.2	1039.5	1034.9	1041.8	1032.6	1044.0	1048.6	1041.8
65°	911.8	930.1	934.6	934.6	934.6	930.1	936.9	939.2	943.7	943.7	939.2
67.5°	820.6	836.6	841.2	845.7	841.2	836.6	836.6	838.9	848.0	852.6	848.0
70°	738.6	754.5	756.8	756.8	759.1	763.7	754.5	759.1	765.9	768.2	765.9
72.5°	667.9	683.9	688.4	686.1	688.4	690.7	690.7	686.1	693.0	697.5	697.5
75°	610.9	620.0	624.6	624.6	626.9	629.2	629.2	626.9	631.4	633.7	636.0
77.5°	558.5	565.3	572.2	572.2	574.5	572.2	576.7	576.7	579.0	581.3	583.6
80°	506.1	515.2	519.7	522.0	526.6	528.9	528.9	528.9	531.1	533.4	533.4
82.5°	465.0	471.9	478.7	485.5	485.5	487.8	487.8	487.8	490.1	490.1	492.4
85°	424.0	433.1	440.0	444.5	446.8	449.1	449.1	451.4	451.4	451.4	453.6
87.5°	387.5	398.9	403.5	408.0	410.3	414.9	414.9	414.9	417.2	417.2	417.2
90°	362.5	373.8	378.4	383.0	385.2	387.5	387.5	389.8	389.8	392.1	392.1
92.5°	332.8	344.2	353.3	353.3	355.6	360.2	357.9	357.9	360.2	362.5	362.5
95°	310.0	319.1	326.0	328.3	330.5	330.5	330.5	332.8	330.5	332.8	332.8
97.5°	282.7	291.8	298.6	303.2	305.5	305.5	305.5	307.7	305.5	307.7	307.7
100°	259.9	269.0	275.8	278.1	282.7	282.7	282.7	282.7	282.7	282.7	284.9
102.5°	241.6	250.8	255.3	257.6	259.9	262.1	262.1	262.1	262.1	264.4	264.4
105°	223.4	232.5	237.1	239.4	241.6	243.9	243.9	243.9	246.2	246.2	243.9
107.5°	207.4	214.3	218.8	223.4	225.7	225.7	228.0	228.0	228.0	228.0	228.0
110°	191.5	198.3	205.2	209.7	209.7	212.0	212.0	214.3	214.3	212.0	214.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	175.5	184.6	189.2	193.8	196.0	198.3	198.3	198.3	198.3	198.3	198.3
115°	161.8	171.0	175.5	180.1	182.4	184.6	184.6	184.6	184.6	184.6	184.6
117.5°	150.5	159.6	164.1	166.4	168.7	171.0	173.2	173.2	173.2	173.2	171.0
120°	139.1	145.9	150.5	155.0	157.3	159.6	159.6	159.6	159.6	159.6	159.6
122.5°	127.7	134.5	139.1	143.6	145.9	148.2	148.2	148.2	148.2	148.2	148.2
125°	116.3	123.1	127.7	132.2	134.5	136.8	136.8	136.8	136.8	136.8	136.8
127.5°	104.9	111.7	118.5	120.8	123.1	125.4	125.4	125.4	127.7	125.4	125.4
130°	93.5	100.3	107.1	109.4	111.7	114.0	116.3	116.3	116.3	116.3	114.0
132.5°	84.3	91.2	95.7	98.0	102.6	102.6	104.9	104.9	104.9	104.9	102.6
135°	77.5	82.1	86.6	88.9	93.5	93.5	93.5	95.7	95.7	93.5	91.2
137.5°	68.4	72.9	77.5	79.8	82.1	84.3	84.3	86.6	84.3	84.3	84.3
140°	63.8	66.1	70.7	72.9	75.2	75.2	75.2	77.5	77.5	75.2	75.2
142.5°	54.7	59.3	63.8	66.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4
145°	45.6	52.4	54.7	59.3	59.3	61.5	61.5	61.5	61.5	61.5	59.3
147.5°	38.8	43.3	50.2	52.4	52.4	54.7	54.7	54.7	54.7	54.7	52.4
150°	29.6	34.2	41.0	45.6	45.6	47.9	47.9	47.9	47.9	45.6	45.6
152.5°	25.1	29.6	31.9	36.5	38.8	38.8	38.8	41.0	38.8	38.8	38.8
155°	22.8	25.1	27.4	29.6	31.9	34.2	34.2	34.2	34.2	31.9	31.9
157.5°	18.2	20.5	22.8	25.1	27.4	29.6	29.6	29.6	29.6	29.6	27.4
160°	13.7	16.0	18.2	18.2	20.5	22.8	25.1	22.8	22.8	22.8	22.8
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-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4135.1	4132.8	4139.7	4128.3	4094.1	4103.2	4098.7	4119.2	4123.7	4128.3	4148.8
5°	4135.1	4132.8	4137.4	4128.3	4091.8	4098.7	4094.1	4114.6	4119.2	4121.5	4142.0
7.5°	4126.0	4123.7	4130.6	4119.2	4080.4	4089.5	4082.7	4103.2	4105.5	4107.8	4126.0
10°	4107.8	4105.5	4110.1	4100.9	4062.2	4071.3	4062.2	4082.7	4082.7	4087.3	4100.9
12.5°	4080.4	4075.9	4085.0	4073.6	4030.3	4041.7	4037.1	4050.8	4053.1	4055.3	4069.0
15°	4041.7	4037.1	4043.9	4037.1	3998.4	4000.6	3993.8	4014.3	4016.6	4012.0	4025.7
17.5°	3984.7	3980.1	3993.8	3989.2	3950.5	3959.6	3957.3	3961.9	3968.7	3957.3	3975.6
20°	3914.0	3918.6	3923.1	3925.4	3895.8	3895.8	3893.5	3902.6	3909.5	3900.3	3914.0
22.5°	3809.2	3820.5	3834.2	3838.8	3818.3	3816.0	3829.7	3825.1	3831.9	3827.4	3836.5
25°	3676.9	3699.7	3713.4	3727.1	3715.7	3720.2	3740.8	3745.3	3745.3	3743.0	3752.2
27.5°	3512.8	3542.4	3567.5	3597.2	3585.8	3594.9	3629.1	3633.6	3642.7	3633.6	3651.9
30°	3316.8	3344.1	3392.0	3435.3	3439.9	3453.5	3501.4	3506.0	3531.0	3521.9	3528.8
32.5°	3120.7	3134.4	3189.1	3232.4	3259.8	3294.0	3346.4	3355.5	3389.7	3396.6	3396.6
35°	2874.5	2913.3	2963.4	3025.0	3059.2	3095.6	3166.3	3180.0	3230.1	3246.1	3264.3
37.5°	2667.1	2703.6	2735.5	2799.3	2860.9	2901.9	2958.9	2993.1	3045.5	3075.1	3097.9
40°	2446.0	2475.6	2509.8	2573.6	2626.1	2687.6	2744.6	2785.6	2851.7	2885.9	2915.6
42.5°	2236.3	2259.0	2295.5	2341.1	2395.8	2464.2	2518.9	2566.8	2637.5	2685.3	2719.5
45°	2049.3	2063.0	2094.9	2129.1	2177.0	2247.7	2300.1	2361.6	2418.6	2468.8	2509.8
47.5°	1873.8	1892.0	1908.0	1930.8	1974.1	2017.4	2079.0	2138.2	2195.2	2249.9	2291.0
50°	1712.0	1712.0	1737.0	1753.0	1782.6	1821.4	1869.2	1910.3	1980.9	2019.7	2072.1
52.5°	1554.7	1563.8	1577.5	1586.6	1609.4	1634.4	1673.2	1707.4	1766.7	1803.1	1853.3
55°	1415.6	1424.7	1431.6	1436.1	1449.8	1479.4	1493.1	1520.5	1561.5	1591.1	1634.4
57.5°	1283.4	1288.0	1294.8	1297.1	1299.4	1317.6	1329.0	1335.8	1376.9	1406.5	1443.0
60°	1162.6	1162.6	1169.4	1167.1	1164.9	1174.0	1171.7	1178.5	1203.6	1221.8	1237.8
62.5°	1048.6	1048.6	1050.9	1046.3	1044.0	1044.0	1034.9	1041.8	1048.6	1050.9	1062.3
65°	943.7	955.1	946.0	948.3	934.6	930.1	925.5	911.8	909.5	900.4	905.0
67.5°	850.3	859.4	850.3	850.3	838.9	829.8	818.4	795.6	788.7	770.5	765.9
70°	775.1	768.2	772.8	765.9	752.3	740.9	724.9	706.7	683.9	661.1	645.1
72.5°	702.1	702.1	697.5	690.7	683.9	661.1	642.8	622.3	595.0	565.3	542.5
75°	631.4	633.7	633.7	626.9	615.5	595.0	574.5	544.8	515.2	481.0	451.4
77.5°	581.3	581.3	581.3	569.9	558.5	540.3	515.2	483.3	451.4	410.3	376.1
80°	533.4	531.1	531.1	517.5	506.1	485.5	460.5	428.6	394.4	351.1	312.3
82.5°	494.7	492.4	487.8	476.4	460.5	440.0	414.9	380.7	344.2	305.5	257.6
85°	453.6	451.4	446.8	435.4	419.4	401.2	373.8	339.7	303.2	259.9	214.3
87.5°	417.2	414.9	408.0	401.2	383.0	362.5	335.1	303.2	264.4	223.4	177.8
90°	392.1	387.5	383.0	373.8	357.9	335.1	307.7	273.5	234.8	193.8	148.2
92.5°	362.5	360.2	353.3	344.2	330.5	307.7	280.4	248.5	209.7	171.0	127.7
95°	332.8	330.5	326.0	316.9	303.2	282.7	257.6	225.7	189.2	150.5	111.7
97.5°	305.5	305.5	298.6	291.8	275.8	259.9	234.8	205.2	171.0	136.8	100.3
100°	282.7	282.7	275.8	266.7	255.3	239.4	214.3	186.9	155.0	123.1	86.6
102.5°	262.1	259.9	255.3	246.2	234.8	218.8	196.0	171.0	141.3	109.4	77.5
105°	243.9	241.6	237.1	228.0	218.8	200.6	182.4	157.3	127.7	98.0	68.4
107.5°	225.7	223.4	221.1	212.0	200.6	184.6	166.4	141.3	116.3	88.9	61.5
110°	209.7	207.4	202.9	193.8	182.4	168.7	150.5	129.9	104.9	79.8	54.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.0	193.8	189.2	180.1	171.0	155.0	139.1	116.3	95.7	72.9	47.9
115°	182.4	180.1	175.5	166.4	155.0	141.3	125.4	107.1	84.3	63.8	43.3
117.5°	168.7	166.4	161.8	155.0	143.6	129.9	114.0	95.7	75.2	59.3	38.8
120°	157.3	152.7	148.2	141.3	129.9	118.5	102.6	86.6	68.4	52.4	34.2
122.5°	145.9	141.3	136.8	129.9	118.5	107.1	91.2	77.5	63.8	47.9	31.9
125°	132.2	129.9	125.4	118.5	107.1	95.7	84.3	70.7	57.0	43.3	27.4
127.5°	120.8	118.5	114.0	104.9	95.7	86.6	75.2	63.8	50.2	36.5	25.1
130°	111.7	107.1	102.6	95.7	88.9	79.8	68.4	57.0	45.6	31.9	22.8
132.5°	100.3	95.7	91.2	86.6	79.8	70.7	61.5	50.2	41.0	29.6	20.5
135°	91.2	86.6	82.1	77.5	70.7	63.8	54.7	45.6	36.5	27.4	18.2
137.5°	79.8	77.5	75.2	70.7	63.8	57.0	50.2	38.8	31.9	25.1	16.0
140°	72.9	70.7	68.4	61.5	57.0	50.2	43.3	34.2	27.4	20.5	13.7
142.5°	66.1	63.8	59.3	54.7	50.2	45.6	36.5	31.9	25.1	18.2	13.7
145°	57.0	54.7	52.4	47.9	43.3	36.5	31.9	27.4	22.8	16.0	11.4
147.5°	52.4	50.2	45.6	41.0	36.5	31.9	29.6	25.1	18.2	13.7	9.1
150°	43.3	41.0	38.8	34.2	31.9	29.6	25.1	20.5	16.0	11.4	9.1
152.5°	36.5	34.2	31.9	31.9	27.4	25.1	20.5	18.2	13.7	11.4	6.8
155°	31.9	31.9	29.6	27.4	22.8	20.5	18.2	13.7	11.4	9.1	6.8
157.5°	27.4	25.1	22.8	22.8	20.5	18.2	13.7	11.4	9.1	9.1	6.8
160°	22.8	20.5	20.5	18.2	16.0	13.7	11.4	11.4	9.1	6.8	6.8
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-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4151.1	4126.0	4148.8	4178.4	4178.4	4173.9	4169.3	4178.4	4201.2	4192.1	4164.8
5°	4144.2	4119.2	4139.7	4169.3	4169.3	4162.5	4157.9	4164.8	4189.8	4178.4	4153.4
7.5°	4130.6	4107.8	4121.5	4148.8	4148.8	4142.0	4137.4	4146.5	4167.0	4155.6	4128.3
10°	4105.5	4080.4	4096.4	4121.5	4119.2	4114.6	4107.8	4119.2	4137.4	4121.5	4089.5
12.5°	4073.6	4048.5	4062.2	4085.0	4082.7	4073.6	4069.0	4075.9	4091.8	4082.7	4048.5
15°	4030.3	4005.2	4016.6	4039.4	4032.5	4025.7	4016.6	4018.9	4039.4	4023.4	3987.0
17.5°	3977.8	3950.5	3959.6	3980.1	3973.3	3966.4	3955.0	3957.3	3980.1	3957.3	3918.6
20°	3914.0	3884.4	3891.2	3916.3	3904.9	3893.5	3882.1	3882.1	3904.9	3879.8	3836.5
22.5°	3845.6	3816.0	3820.5	3838.8	3829.7	3809.2	3797.8	3804.6	3816.0	3784.1	3738.5
25°	3761.3	3722.5	3729.4	3747.6	3740.8	3713.4	3702.0	3706.6	3702.0	3676.9	3629.1
27.5°	3663.3	3622.2	3626.8	3638.2	3629.1	3604.0	3590.3	3592.6	3583.5	3551.6	3496.9
30°	3540.2	3519.6	3517.4	3524.2	3510.5	3485.5	3469.5	3464.9	3462.7	3417.1	3351.0
32.5°	3414.8	3396.6	3385.2	3394.3	3378.3	3353.2	3325.9	3325.9	3303.1	3259.8	3202.8
35°	3287.1	3257.5	3246.1	3252.9	3234.7	3202.8	3180.0	3168.6	3134.4	3079.7	3018.1
37.5°	3123.0	3102.5	3088.8	3095.6	3075.1	3052.3	3009.0	2997.6	2961.2	2885.9	2808.4
40°	2945.2	2929.2	2915.6	2922.4	2899.6	2865.4	2826.7	2808.4	2767.4	2683.0	2621.5
42.5°	2753.7	2746.9	2730.9	2756.0	2710.4	2676.2	2637.5	2607.8	2566.8	2475.6	2404.9
45°	2550.8	2566.8	2530.3	2537.2	2507.5	2477.9	2436.9	2393.5	2352.5	2265.9	2186.1
47.5°	2336.6	2348.0	2322.9	2327.4	2295.5	2268.2	2231.7	2177.0	2131.4	2056.2	1985.5
50°	2115.4	2110.9	2110.9	2106.3	2081.2	2047.0	2010.6	1960.4	1914.8	1846.4	1787.2
52.5°	1880.6	1889.8	1894.3	1905.7	1873.8	1853.3	1796.3	1753.0	1718.8	1648.1	1598.0
55°	1655.0	1686.9	1677.8	1682.3	1645.8	1629.9	1584.3	1550.1	1500.0	1458.9	1427.0
57.5°	1449.8	1456.6	1461.2	1468.0	1452.1	1420.2	1383.7	1356.3	1317.6	1283.4	1260.6
60°	1251.5	1251.5	1253.8	1265.2	1249.2	1221.8	1194.5	1174.0	1146.6	1126.1	1112.4
62.5°	1064.6	1080.5	1082.8	1073.7	1053.2	1039.5	1021.2	1009.8	991.6	984.8	980.2
65°	891.3	891.3	891.3	895.9	884.5	875.4	864.0	861.7	868.5	859.4	864.0
67.5°	745.4	738.6	734.0	736.3	731.7	727.2	724.9	731.7	745.4	745.4	756.8
70°	620.0	606.4	597.2	597.2	597.2	599.5	606.4	620.0	642.8	652.0	667.9
72.5°	517.5	487.8	474.1	474.1	476.4	485.5	506.1	531.1	551.7	569.9	590.4
75°	419.4	389.8	369.3	367.0	371.6	385.2	414.9	437.7	471.9	496.9	522.0
77.5°	339.7	303.2	278.1	275.8	282.7	303.2	339.7	369.3	408.0	435.4	462.8
80°	271.3	230.2	209.7	196.0	207.4	232.5	273.5	310.0	346.5	383.0	417.2
82.5°	216.6	177.8	145.9	132.2	145.9	180.1	218.8	262.1	298.6	337.4	371.6
85°	171.0	129.9	93.5	79.8	95.7	132.2	175.5	218.8	259.9	298.6	332.8
87.5°	134.5	93.5	57.0	38.8	59.3	98.0	139.1	182.4	225.7	264.4	298.6
90°	104.9	66.1	31.9	4.6	34.2	70.7	111.7	152.7	196.0	234.8	269.0
92.5°	88.9	50.2	18.2	0.0	20.5	52.4	91.2	132.2	171.0	209.7	243.9
95°	75.2	41.0	13.7	0.0	13.7	41.0	75.2	111.7	150.5	189.2	223.4
97.5°	63.8	31.9	9.1	0.0	9.1	31.9	61.5	98.0	132.2	168.7	200.6
100°	54.7	27.4	6.8	0.0	6.8	25.1	52.4	84.3	118.5	152.7	182.4
102.5°	47.9	22.8	4.6	0.0	4.6	20.5	43.3	72.9	102.6	134.5	164.1
105°	41.0	18.2	4.6	0.0	2.3	16.0	36.5	63.8	91.2	120.8	148.2
107.5°	36.5	16.0	4.6	0.0	2.3	13.7	31.9	54.7	82.1	107.1	132.2
110°	31.9	13.7	4.6	0.0	2.3	9.1	27.4	47.9	70.7	95.7	120.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.4	11.4	2.3	0.0	0.0	6.8	22.8	41.0	61.5	86.6	107.1
115°	25.1	11.4	2.3	0.0	0.0	4.6	18.2	36.5	54.7	77.5	95.7
117.5°	22.8	9.1	2.3	0.0	2.3	4.6	16.0	31.9	47.9	66.1	86.6
120°	20.5	9.1	2.3	0.0	2.3	2.3	11.4	27.4	41.0	59.3	75.2
122.5°	18.2	9.1	2.3	0.0	2.3	2.3	9.1	22.8	36.5	52.4	66.1
125°	16.0	6.8	4.6	2.3	2.3	2.3	6.8	18.2	31.9	43.3	59.3
127.5°	16.0	6.8	4.6	2.3	2.3	2.3	4.6	16.0	25.1	38.8	52.4
130°	13.7	6.8	4.6	2.3	2.3	2.3	2.3	11.4	22.8	31.9	43.3
132.5°	11.4	6.8	4.6	2.3	2.3	2.3	2.3	6.8	16.0	27.4	36.5
135°	11.4	6.8	4.6	2.3	2.3	2.3	2.3	4.6	11.4	20.5	29.6
137.5°	9.1	4.6	4.6	2.3	2.3	2.3	2.3	2.3	9.1	16.0	22.8
140°	9.1	4.6	4.6	2.3	2.3	2.3	2.3	2.3	6.8	11.4	18.2
142.5°	6.8	4.6	4.6	2.3	2.3	2.3	2.3	2.3	4.6	9.1	13.7
145°	6.8	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	4.6	9.1
147.5°	6.8	6.8	4.6	2.3	2.3	2.3	2.3	2.3	2.3	4.6	6.8
150°	6.8	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6
152.5°	6.8	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6
155°	6.8	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6
157.5°	6.8	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.6
160°	6.8	4.6	4.6	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6
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-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4155.6	4112.3	4135.1	4128.3	4137.4	4155.6	4153.4	4148.8	4148.8	4142.0	4132.8
5°	4142.0	4100.9	4121.5	4110.1	4121.5	4137.4	4135.1	4128.3	4132.8	4121.5	4110.1
7.5°	4114.6	4078.1	4096.4	4087.3	4096.4	4112.3	4105.5	4103.2	4107.8	4089.5	4082.7
10°	4082.7	4041.7	4062.2	4050.8	4062.2	4073.6	4069.0	4059.9	4069.0	4050.8	4043.9
12.5°	4032.5	3998.4	4012.0	4007.5	4014.3	4025.7	4016.6	4009.8	4014.3	3998.4	3984.7
15°	3977.8	3943.6	3955.0	3948.2	3952.8	3966.4	3950.5	3948.2	3943.6	3927.7	3923.1
17.5°	3907.2	3875.3	3886.7	3875.3	3882.1	3877.5	3875.3	3863.9	3863.9	3845.6	3831.9
20°	3820.5	3793.2	3786.4	3777.2	3786.4	3777.2	3763.6	3754.4	3752.2	3733.9	3722.5
22.5°	3720.2	3688.3	3692.9	3667.8	3670.1	3656.4	3633.6	3624.5	3615.4	3594.9	3578.9
25°	3599.4	3567.5	3544.7	3528.8	3508.2	3506.0	3476.3	3453.5	3451.3	3426.2	3423.9
27.5°	3462.7	3426.2	3407.9	3369.2	3344.1	3323.6	3298.5	3275.7	3264.3	3237.0	3218.7
30°	3305.4	3264.3	3218.7	3191.4	3152.6	3136.7	3093.4	3066.0	3056.9	3027.3	3013.6
32.5°	3127.6	3084.3	3047.8	2995.3	2952.0	2929.2	2885.9	2858.6	2847.2	2815.3	2797.0
35°	2933.8	2885.9	2842.6	2792.5	2758.3	2719.5	2667.1	2639.7	2614.7	2603.3	2589.6
37.5°	2730.9	2678.5	2628.3	2578.2	2548.6	2503.0	2457.4	2439.1	2409.5	2398.1	2384.4
40°	2521.2	2468.8	2420.9	2373.0	2338.8	2297.8	2256.8	2249.9	2218.0	2206.6	2197.5
42.5°	2313.8	2259.0	2204.3	2170.1	2145.1	2104.0	2076.7	2069.8	2042.5	2035.7	2035.7
45°	2126.8	2058.4	2012.9	1983.2	1962.7	1928.5	1905.7	1901.2	1878.4	1873.8	1873.8
47.5°	1926.2	1862.4	1828.2	1810.0	1791.7	1766.7	1753.0	1753.0	1730.2	1725.6	1723.4
50°	1739.3	1680.0	1655.0	1636.7	1634.4	1616.2	1604.8	1600.3	1600.3	1584.3	1586.6
52.5°	1561.5	1531.9	1511.4	1500.0	1486.3	1474.9	1465.8	1465.8	1458.9	1447.5	1452.1
55°	1397.4	1363.2	1365.5	1356.3	1349.5	1342.7	1344.9	1331.3	1329.0	1319.9	1326.7
57.5°	1233.2	1233.2	1228.7	1221.8	1210.4	1215.0	1215.0	1215.0	1203.6	1196.8	1203.6
60°	1094.2	1101.0	1089.6	1096.5	1091.9	1094.2	1089.6	1089.6	1082.8	1080.5	1082.8
62.5°	971.1	982.5	977.9	987.1	982.5	984.8	989.3	980.2	975.7	971.1	975.7
65°	861.7	875.4	873.1	879.9	882.2	884.5	886.8	882.2	877.6	873.1	870.8
67.5°	765.9	779.6	788.7	791.0	793.3	800.1	797.8	793.3	788.7	781.9	779.6
70°	679.3	697.5	708.9	713.5	722.6	718.1	718.1	715.8	711.2	704.4	702.1
72.5°	606.4	626.9	638.3	642.8	652.0	652.0	649.7	647.4	642.8	636.0	633.7
75°	542.5	560.8	576.7	585.8	592.7	592.7	590.4	588.1	583.6	579.0	576.7
77.5°	492.4	508.3	522.0	533.4	538.0	540.3	538.0	533.4	533.4	531.1	528.9
80°	442.2	460.5	474.1	485.5	492.4	492.4	490.1	492.4	487.8	485.5	483.3
82.5°	398.9	419.4	435.4	446.8	451.4	453.6	451.4	453.6	449.1	449.1	449.1
85°	360.2	380.7	398.9	408.0	414.9	417.2	417.2	417.2	414.9	414.9	414.9
87.5°	328.3	348.8	367.0	376.1	383.0	385.2	385.2	387.5	383.0	383.0	383.0
90°	298.6	319.1	337.4	346.5	353.3	357.9	357.9	360.2	357.9	355.6	355.6
92.5°	271.3	294.1	312.3	321.4	328.3	335.1	335.1	337.4	332.8	332.8	332.8
95°	248.5	271.3	287.2	298.6	305.5	310.0	312.3	312.3	310.0	310.0	310.0
97.5°	228.0	248.5	264.4	275.8	282.7	284.9	287.2	289.5	287.2	287.2	287.2
100°	207.4	228.0	243.9	253.0	262.1	264.4	266.7	269.0	269.0	266.7	266.7
102.5°	189.2	209.7	223.4	234.8	241.6	246.2	248.5	248.5	248.5	248.5	248.5
105°	171.0	191.5	205.2	216.6	223.4	228.0	230.2	232.5	232.5	230.2	230.2
107.5°	155.0	173.2	189.2	198.3	207.4	212.0	214.3	214.3	216.6	214.3	214.3
110°	139.1	159.6	173.2	182.4	191.5	196.0	198.3	200.6	200.6	200.6	200.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	127.7	143.6	157.3	166.4	175.5	180.1	182.4	184.6	186.9	184.6	184.6
115°	114.0	129.9	143.6	152.7	159.6	164.1	168.7	171.0	171.0	173.2	171.0
117.5°	102.6	116.3	129.9	139.1	145.9	152.7	155.0	157.3	159.6	157.3	157.3
120°	91.2	104.9	116.3	125.4	132.2	139.1	141.3	143.6	145.9	143.6	143.6
122.5°	82.1	93.5	104.9	114.0	120.8	125.4	129.9	129.9	132.2	132.2	132.2
125°	72.9	84.3	93.5	102.6	109.4	114.0	116.3	118.5	118.5	120.8	120.8
127.5°	63.8	72.9	84.3	91.2	98.0	102.6	104.9	107.1	107.1	109.4	109.4
130°	54.7	63.8	72.9	79.8	86.6	91.2	93.5	95.7	98.0	98.0	98.0
132.5°	47.9	57.0	63.8	70.7	75.2	79.8	84.3	86.6	86.6	86.6	86.6
135°	38.8	47.9	54.7	61.5	66.1	70.7	72.9	77.5	77.5	77.5	77.5
137.5°	31.9	41.0	47.9	52.4	57.0	61.5	63.8	66.1	68.4	68.4	68.4
140°	25.1	31.9	38.8	45.6	50.2	52.4	57.0	57.0	59.3	59.3	59.3
142.5°	18.2	25.1	29.6	36.5	41.0	45.6	47.9	50.2	50.2	50.2	50.2
145°	13.7	18.2	22.8	27.4	34.2	36.5	38.8	41.0	43.3	43.3	43.3
147.5°	9.1	13.7	16.0	20.5	25.1	29.6	31.9	34.2	36.5	36.5	36.5
150°	6.8	9.1	13.7	16.0	18.2	22.8	27.4	27.4	29.6	29.6	27.4
152.5°	4.6	6.8	9.1	11.4	13.7	16.0	20.5	20.5	22.8	22.8	22.8
155°	4.6	4.6	4.6	6.8	9.1	11.4	13.7	16.0	16.0	16.0	16.0
157.5°	4.6	4.6	4.6	4.6	4.6	6.8	9.1	11.4	11.4	11.4	11.4
160°	4.6	4.6	2.3	2.3	4.6	4.6	4.6	4.6	6.8	6.8	6.8
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-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4139.7	4144.2	4144.2	4139.7	4137.4	4146.5	4135.1	4091.8	4105.5	4110.1	4123.7
5°	4119.2	4123.7	4123.7	4123.7	4119.2	4128.3	4116.9	4073.6	4089.5	4096.4	4105.5
7.5°	4089.5	4091.8	4096.4	4094.1	4089.5	4103.2	4091.8	4048.5	4059.9	4071.3	4082.7
10°	4050.8	4050.8	4053.1	4057.6	4053.1	4064.5	4053.1	4014.3	4025.7	4032.5	4046.2
12.5°	3998.4	4002.9	4005.2	4002.9	4000.6	4009.8	4005.2	3968.7	3973.3	3987.0	4000.6
15°	3927.7	3927.7	3939.1	3934.5	3934.5	3943.6	3948.2	3907.2	3914.0	3934.5	3948.2
17.5°	3841.1	3843.3	3852.5	3857.0	3854.7	3870.7	3873.0	3841.1	3838.8	3863.9	3877.5
20°	3729.4	3733.9	3745.3	3754.4	3754.4	3772.7	3779.5	3759.0	3761.3	3788.6	3793.2
22.5°	3592.6	3592.6	3613.1	3626.8	3638.2	3649.6	3670.1	3651.9	3651.9	3688.3	3708.9
25°	3423.9	3439.9	3446.7	3474.1	3490.0	3521.9	3540.2	3542.4	3544.7	3578.9	3592.6
27.5°	3237.0	3241.5	3262.1	3294.0	3312.2	3341.8	3376.0	3382.9	3394.3	3439.9	3460.4
30°	3025.0	3038.7	3047.8	3093.4	3118.4	3157.2	3200.5	3216.5	3225.6	3287.1	3312.2
32.5°	2808.4	2813.0	2851.7	2876.8	2906.4	2947.5	2997.6	3027.3	3045.5	3109.3	3145.8
35°	2591.9	2601.0	2632.9	2664.8	2694.4	2735.5	2787.9	2828.9	2860.9	2917.8	2965.7
37.5°	2393.5	2416.3	2423.2	2455.1	2477.9	2518.9	2555.4	2614.7	2646.6	2705.8	2767.4
40°	2215.7	2222.6	2227.1	2259.0	2275.0	2313.8	2366.2	2404.9	2448.3	2491.6	2564.5
42.5°	2040.2	2044.8	2051.6	2069.8	2088.1	2115.4	2154.2	2192.9	2238.5	2302.4	2350.2
45°	1878.4	1882.9	1887.5	1898.9	1914.8	1939.9	1965.0	1992.3	2037.9	2092.6	2142.8
47.5°	1727.9	1737.0	1737.0	1739.3	1750.7	1771.2	1789.5	1823.7	1848.7	1878.4	1935.3
50°	1584.3	1591.1	1593.4	1593.4	1600.3	1613.9	1618.5	1641.3	1664.1	1691.4	1732.5
52.5°	1449.8	1449.8	1447.5	1456.6	1456.6	1465.8	1468.0	1481.7	1497.7	1527.3	1545.5
55°	1322.1	1322.1	1329.0	1324.4	1324.4	1329.0	1326.7	1329.0	1342.7	1360.9	1376.9
57.5°	1199.1	1196.8	1203.6	1199.1	1196.8	1201.3	1205.9	1196.8	1199.1	1217.3	1217.3
60°	1076.0	1078.2	1085.1	1080.5	1080.5	1080.5	1076.0	1071.4	1066.8	1078.2	1082.8
62.5°	977.9	971.1	977.9	971.1	975.7	973.4	968.8	959.7	962.0	957.4	952.9
65°	875.4	875.4	877.6	870.8	875.4	875.4	868.5	866.2	852.6	848.0	836.6
67.5°	786.4	786.4	788.7	784.2	784.2	786.4	779.6	772.8	759.1	752.3	736.3
70°	708.9	708.9	708.9	706.7	706.7	706.7	702.1	693.0	679.3	667.9	647.4
72.5°	638.3	640.6	638.3	638.3	645.1	638.3	631.4	622.3	610.9	588.1	569.9
75°	581.3	583.6	581.3	581.3	581.3	579.0	576.7	563.1	549.4	531.1	503.8
77.5°	531.1	531.1	533.4	531.1	531.1	528.9	522.0	510.6	494.7	478.7	446.8
80°	483.3	485.5	487.8	490.1	485.5	483.3	476.4	467.3	446.8	428.6	396.6
82.5°	449.1	446.8	449.1	451.4	446.8	444.5	437.7	426.3	410.3	385.2	353.3
85°	414.9	412.6	412.6	414.9	412.6	408.0	401.2	389.8	373.8	348.8	316.9
87.5°	380.7	383.0	385.2	383.0	380.7	376.1	369.3	357.9	339.7	319.1	284.9
90°	355.6	355.6	355.6	355.6	353.3	348.8	341.9	328.3	312.3	287.2	257.6
92.5°	332.8	332.8	332.8	332.8	330.5	323.7	316.9	305.5	287.2	262.1	234.8
95°	310.0	312.3	310.0	310.0	305.5	303.2	291.8	280.4	264.4	239.4	209.7
97.5°	284.9	287.2	284.9	284.9	282.7	278.1	271.3	257.6	241.6	218.8	191.5
100°	266.7	266.7	264.4	264.4	262.1	257.6	248.5	237.1	221.1	198.3	171.0
102.5°	246.2	248.5	246.2	246.2	241.6	237.1	230.2	218.8	202.9	180.1	155.0
105°	230.2	230.2	228.0	228.0	223.4	218.8	212.0	198.3	184.6	164.1	139.1
107.5°	214.3	214.3	212.0	212.0	207.4	202.9	193.8	182.4	168.7	148.2	125.4
110°	198.3	198.3	198.3	196.0	191.5	184.6	177.8	166.4	152.7	134.5	111.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	186.9	184.6	182.4	180.1	175.5	171.0	161.8	150.5	136.8	120.8	100.3
115°	171.0	171.0	168.7	166.4	161.8	155.0	148.2	139.1	125.4	107.1	88.9
117.5°	157.3	157.3	155.0	152.7	148.2	141.3	134.5	125.4	111.7	95.7	79.8
120°	143.6	143.6	141.3	139.1	134.5	127.7	123.1	111.7	100.3	84.3	70.7
122.5°	132.2	129.9	129.9	125.4	123.1	116.3	109.4	100.3	88.9	75.2	61.5
125°	118.5	118.5	116.3	114.0	111.7	104.9	98.0	88.9	77.5	66.1	54.7
127.5°	107.1	107.1	104.9	102.6	100.3	93.5	86.6	79.8	68.4	57.0	45.6
130°	95.7	95.7	93.5	91.2	88.9	82.1	77.5	68.4	59.3	50.2	38.8
132.5°	86.6	86.6	84.3	82.1	77.5	72.9	68.4	59.3	52.4	43.3	34.2
135°	77.5	75.2	75.2	72.9	68.4	63.8	59.3	52.4	43.3	36.5	27.4
137.5°	68.4	66.1	63.8	61.5	59.3	54.7	50.2	45.6	38.8	29.6	22.8
140°	59.3	57.0	57.0	54.7	50.2	47.9	43.3	36.5	31.9	25.1	18.2
142.5°	50.2	50.2	47.9	45.6	43.3	41.0	36.5	31.9	25.1	20.5	13.7
145°	43.3	41.0	41.0	38.8	36.5	31.9	29.6	25.1	20.5	16.0	11.4
147.5°	34.2	34.2	34.2	31.9	29.6	27.4	25.1	20.5	16.0	11.4	6.8
150°	27.4	27.4	27.4	25.1	22.8	20.5	18.2	16.0	11.4	6.8	4.6
152.5°	22.8	22.8	20.5	20.5	18.2	16.0	13.7	11.4	6.8	4.6	4.6
155°	16.0	16.0	16.0	13.7	13.7	11.4	9.1	6.8	4.6	4.6	4.6
157.5°	11.4	11.4	11.4	9.1	9.1	6.8	6.8	4.6	4.6	4.6	4.6
160°	6.8	6.8	6.8	6.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4116.9	4114.6	4132.8	4132.8	4112.3	4144.2	4178.4
5°	4103.2	4100.9	4119.2	4119.2	4100.9	4132.8	4169.3
7.5°	4075.9	4078.1	4096.4	4100.9	4078.1	4107.8	4146.5
10°	4046.2	4043.9	4064.5	4069.0	4050.8	4078.1	4114.6
12.5°	3998.4	3998.4	4018.9	4025.7	4007.5	4039.4	4073.6
15°	3948.2	3948.2	3961.9	3973.3	3957.3	3987.0	4021.2
17.5°	3884.4	3882.1	3895.8	3909.5	3893.5	3925.4	3961.9
20°	3802.3	3802.3	3818.3	3834.2	3822.8	3852.5	3893.5
22.5°	3715.7	3706.6	3733.9	3745.3	3738.5	3768.1	3809.2
25°	3606.3	3604.0	3631.3	3647.3	3638.2	3670.1	3706.6
27.5°	3487.7	3485.5	3512.8	3533.3	3528.8	3558.4	3599.4
30°	3344.1	3355.5	3380.6	3414.8	3403.4	3435.3	3478.6
32.5°	3193.7	3205.1	3234.7	3271.2	3273.5	3298.5	3341.8
35°	3013.6	3043.2	3063.7	3111.6	3120.7	3145.8	3191.4
37.5°	2824.4	2858.6	2901.9	2938.4	2956.6	2977.1	3029.5
40°	2612.4	2662.5	2710.4	2753.7	2776.5	2797.0	2847.2
42.5°	2420.9	2459.6	2505.2	2548.6	2589.6	2607.8	2660.3
45°	2204.3	2249.9	2291.0	2343.4	2384.4	2404.9	2457.4
47.5°	1992.3	2037.9	2092.6	2129.1	2172.4	2192.9	2243.1
50°	1789.5	1830.5	1876.1	1919.4	1955.9	1974.1	2017.4
52.5°	1588.9	1632.2	1675.5	1702.8	1741.6	1755.3	1791.7
55°	1411.1	1440.7	1479.4	1495.4	1534.1	1543.3	1568.3
57.5°	1240.1	1260.6	1274.3	1301.6	1329.0	1349.5	1379.1
60°	1085.1	1094.2	1103.3	1119.3	1142.1	1148.9	1160.3
62.5°	946.0	943.7	962.0	966.5	968.8	991.6	980.2
65°	822.9	825.2	809.2	802.4	811.5	818.4	813.8
67.5°	720.3	706.7	693.0	677.0	663.4	670.2	663.4
70°	620.0	608.6	585.8	563.1	553.9	540.3	533.4
72.5°	540.3	512.9	490.1	460.5	444.5	428.6	417.2
75°	478.7	440.0	408.0	376.1	353.3	330.5	326.0
77.5°	414.9	378.4	341.9	307.7	273.5	248.5	239.4
80°	364.7	330.5	287.2	246.2	209.7	177.8	166.4
82.5°	319.1	282.7	239.4	196.0	155.0	120.8	107.1
85°	280.4	241.6	198.3	155.0	114.0	77.5	59.3
87.5°	250.8	207.4	164.1	123.1	79.8	43.3	22.8
90°	223.4	182.4	141.3	98.0	57.0	22.8	0.0
92.5°	198.3	159.6	118.5	79.8	43.3	13.7	2.3
95°	175.5	141.3	100.3	63.8	31.9	9.1	2.3
97.5°	157.3	123.1	86.6	52.4	25.1	6.8	2.3
100°	141.3	107.1	75.2	43.3	20.5	4.6	2.3
102.5°	125.4	95.7	63.8	36.5	16.0	2.3	2.3
105°	111.7	84.3	54.7	31.9	13.7	2.3	2.3
107.5°	100.3	75.2	47.9	27.4	9.1	2.3	2.3
110°	88.9	63.8	41.0	22.8	6.8	2.3	2.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	79.8	57.0	36.5	18.2	4.6	2.3	2.3
115°	70.7	50.2	31.9	16.0	4.6	2.3	2.3
117.5°	61.5	43.3	27.4	11.4	2.3	2.3	2.3
120°	54.7	38.8	22.8	9.1	2.3	2.3	2.3
122.5°	47.9	31.9	18.2	6.8	2.3	2.3	2.3
125°	41.0	27.4	16.0	4.6	2.3	2.3	2.3
127.5°	34.2	22.8	11.4	4.6	2.3	2.3	2.3
130°	29.6	18.2	9.1	2.3	2.3	2.3	2.3
132.5°	25.1	13.7	6.8	2.3	2.3	2.3	2.3
135°	20.5	11.4	4.6	2.3	2.3	2.3	2.3
137.5°	16.0	9.1	4.6	2.3	2.3	2.3	2.3
140°	11.4	6.8	2.3	2.3	2.3	2.3	2.3
142.5°	9.1	4.6	2.3	2.3	2.3	2.3	2.3
145°	6.8	4.6	2.3	2.3	2.3	2.3	2.3
147.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3
150°	4.6	4.6	2.3	2.3	4.6	2.3	2.3
152.5°	4.6	2.3	2.3	2.3	4.6	2.3	2.3
155°	4.6	4.6	4.6	4.6	4.6	4.6	2.3
157.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
160°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)