

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-L930-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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

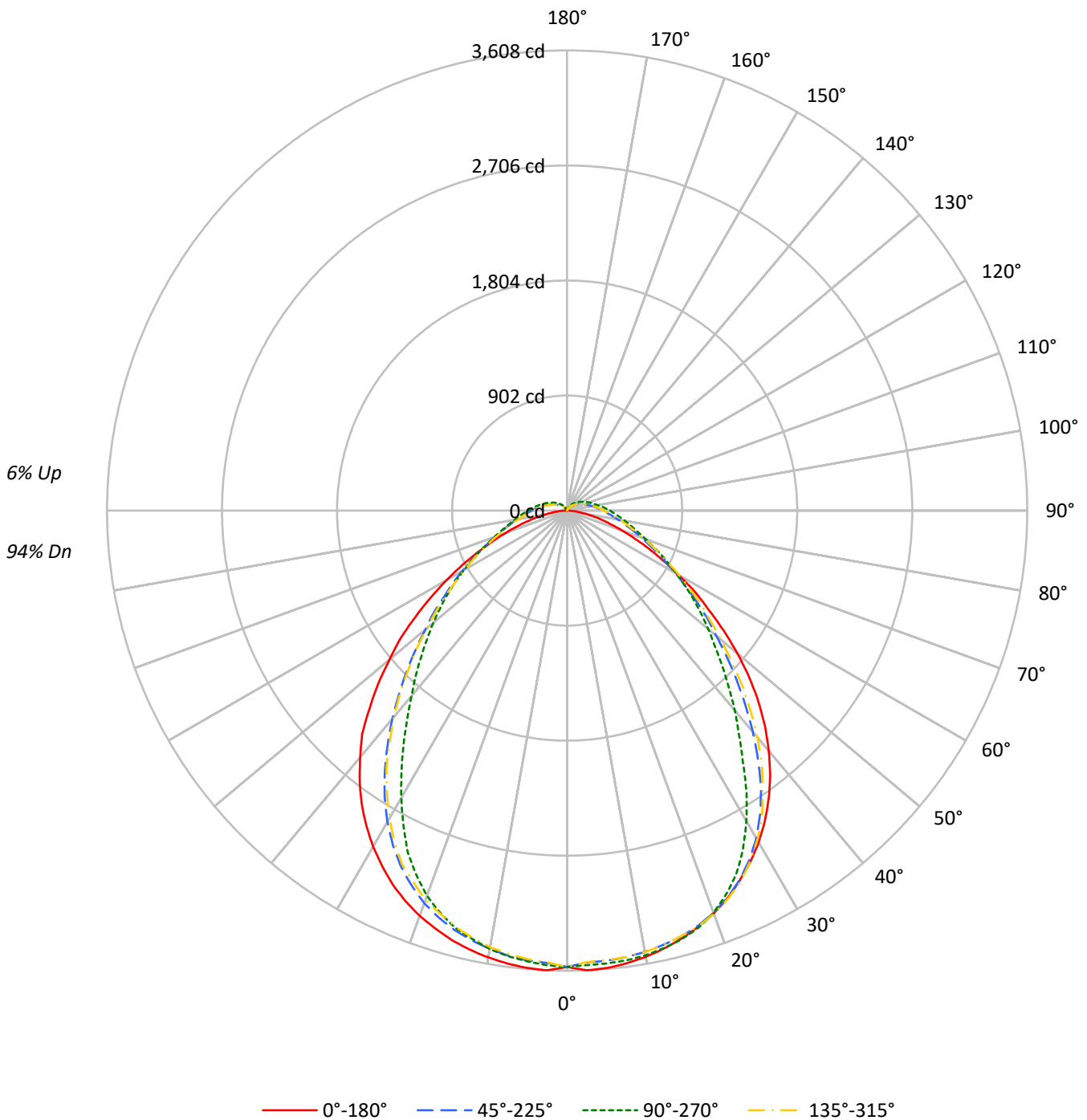
Lumens per Lamp: N/A
Luminaire Lumens: 9055.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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°	14457	14457	14457	14457
5°	14580	13997	14580	13935
10°	14535	13625	14559	13435
15°	14462	13218	14528	12874
20°	14372	12694	14456	12158
25°	14164	11918	14321	11216
30°	13887	10777	14069	9977
35°	13444	9378	13703	8733
40°	12798	8202	13136	7610
45°	11937	7130	12324	6721
50°	10749	6265	11222	5949
55°	9331	5532	10009	5253
60°	7882	4857	8594	4578
65°	6500	4295	7155	3982
70°	5216	3812	5840	3525
75°	4151	3519	4675	3237
80°	3071	3396	3619	3103
85°	2014	3415	2710	3139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	3.7
10°-20°	972.7	10.7
20°-30°	1441.6	15.9
30°-40°	1601.5	17.7
40°-50°	1451.8	16.0
50°-60°	1125.0	12.4
60°-70°	763.9	8.4
70°-80°	486.0	5.4
80°-90°	310.7	3.4
90°-100°	209.5	2.3
100°-110°	143.5	1.6
110°-120°	95.7	1.1
120°-130°	59.5	0.7
130°-140°	32.9	0.4
140°-150°	15.5	0.2
150°-160°	5.7	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2753.4	30.4
0°-40°	4355.0	48.1
0°-60°	6931.7	76.6
0°-90°	8492.3	93.8
90°-120°	448.7	5.0
90°-150°	556.6	6.1
90°-180°	563.0	6.2
0°-180°	9055.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3578	3578	3578	3578	3578	
5°	3600	3564	3600	3548	3600	342
15°	3472	3478	3488	3387	3472	980
25°	3200	3141	3236	2956	3200	1474
35°	2755	2401	2808	2236	2755	1719
45°	2122	1716	2190	1618	2122	1629
55°	1354	1206	1452	1145	1354	1219
65°	703	811	774	752	703	704
75°	281	541	317	498	281	303
85°	51	390	69	358	51	61
90°	0	336	4	307	0	3
95°	2	287	0	268	2	2
105°	2	211	0	199	2	2
115°	2	159	0	148	2	2
125°	2	118	2	104	2	2
135°	2	83	2	67	2	2
145°	2	53	2	37	2	1
155°	2	30	2	14	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3607.5	3603.6	3599.7	3593.8	3599.7	3615.4	3605.6	3583.9	3580.0	3544.6	3560.3
5°	3599.7	3593.8	3589.8	3583.9	3591.8	3611.5	3601.6	3581.9	3576.0	3542.6	3560.3
7.5°	3580.0	3576.0	3570.1	3570.1	3578.0	3597.7	3589.8	3568.2	3564.2	3530.8	3550.5
10°	3552.4	3550.5	3546.5	3546.5	3554.4	3578.0	3568.2	3548.5	3544.6	3513.1	3534.7
12.5°	3517.0	3519.0	3513.1	3513.1	3524.9	3548.5	3540.6	3519.0	3515.0	3487.5	3509.1
15°	3471.7	3473.7	3469.8	3471.7	3483.5	3511.1	3501.3	3481.6	3477.6	3456.0	3473.7
17.5°	3420.6	3422.5	3422.5	3420.6	3434.3	3461.9	3454.0	3436.3	3430.4	3412.7	3434.3
20°	3361.5	3361.5	3361.5	3361.5	3377.3	3404.8	3395.0	3381.2	3369.4	3355.6	3373.3
22.5°	3288.7	3286.7	3288.7	3294.6	3310.3	3332.0	3326.1	3310.3	3292.6	3284.8	3298.5
25°	3200.1	3206.0	3208.0	3213.9	3233.6	3251.3	3245.4	3229.7	3202.1	3196.2	3200.1
27.5°	3107.6	3111.6	3117.5	3115.5	3143.1	3160.8	3149.0	3135.2	3095.8	3089.9	3086.0
30°	3003.3	3009.2	3013.2	3011.2	3032.8	3052.5	3040.7	3023.0	2969.9	2965.9	2934.4
32.5°	2885.2	2891.1	2895.1	2895.1	2926.6	2934.4	2912.8	2887.2	2830.1	2816.4	2788.8
35°	2755.3	2761.2	2763.2	2763.2	2794.7	2792.7	2765.2	2729.8	2666.8	2649.1	2601.8
37.5°	2615.6	2619.5	2621.5	2633.3	2647.1	2635.3	2599.9	2554.6	2507.4	2458.2	2407.0
40°	2458.2	2464.1	2468.0	2475.9	2489.6	2475.9	2424.7	2369.6	2318.4	2263.3	2212.1
42.5°	2296.8	2314.5	2310.6	2308.6	2316.5	2279.1	2239.7	2176.7	2125.5	2068.5	2017.3
45°	2121.6	2119.6	2129.5	2133.4	2131.5	2100.0	2044.9	1987.8	1936.6	1877.6	1834.3
47.5°	1936.6	1934.6	1942.5	1946.5	1934.6	1901.2	1857.9	1792.9	1749.6	1698.5	1665.0
50°	1741.8	1741.8	1753.6	1741.8	1735.9	1702.4	1667.0	1602.0	1568.6	1523.3	1503.6
52.5°	1546.9	1564.6	1552.8	1548.9	1543.0	1509.5	1482.0	1428.8	1401.3	1381.6	1358.0
55°	1354.1	1373.7	1365.9	1360.0	1358.0	1330.4	1304.9	1265.5	1247.8	1234.0	1220.2
57.5°	1190.7	1188.7	1184.8	1178.9	1180.9	1159.2	1133.6	1112.0	1104.1	1098.2	1102.1
60°	1001.8	1017.5	1011.6	1013.6	1015.5	1011.6	990.0	976.2	978.1	980.1	986.0
62.5°	846.3	860.1	869.9	862.0	866.0	871.9	860.1	856.1	864.0	871.9	879.7
65°	702.6	716.4	726.2	724.3	736.1	747.9	745.9	749.8	767.6	777.4	787.2
67.5°	572.7	586.5	600.3	602.2	620.0	637.7	645.5	659.3	679.0	692.8	704.6
70°	460.5	472.3	488.1	497.9	521.5	545.2	558.9	586.5	598.3	618.0	625.9
72.5°	360.2	370.0	391.7	415.3	435.0	464.5	492.0	515.6	533.4	555.0	564.8
75°	281.4	285.4	309.0	336.5	364.1	397.6	427.1	452.7	476.3	497.9	513.7
77.5°	206.7	212.6	234.2	271.6	303.1	338.5	372.0	399.5	425.1	446.8	468.4
80°	143.7	155.5	179.1	216.5	251.9	291.3	322.8	354.3	381.8	403.5	425.1
82.5°	92.5	102.3	135.8	173.2	210.6	249.9	283.4	314.9	344.4	368.0	387.7
85°	51.2	64.9	98.4	137.8	175.2	214.5	249.9	281.4	311.0	332.6	352.3
87.5°	19.7	39.4	70.9	108.2	145.6	183.0	220.4	249.9	279.5	303.1	320.8
90°	0.0	23.6	53.1	90.5	127.9	165.3	200.7	232.2	259.8	281.4	301.1
92.5°	2.0	15.7	41.3	72.8	108.2	143.7	177.1	208.6	236.2	257.8	275.5
95°	2.0	11.8	33.5	63.0	94.5	127.9	159.4	188.9	214.5	236.2	253.9
97.5°	2.0	7.9	27.6	55.1	82.7	116.1	145.6	173.2	196.8	218.5	232.2
100°	2.0	7.9	23.6	47.2	74.8	104.3	131.9	159.4	181.1	198.8	214.5
102.5°	2.0	5.9	19.7	41.3	66.9	92.5	120.1	145.6	165.3	183.0	198.8
105°	2.0	5.9	17.7	35.4	59.0	84.6	108.2	131.9	153.5	169.3	183.0
107.5°	2.0	3.9	15.7	29.5	51.2	76.8	100.4	120.1	139.7	155.5	169.3
110°	2.0	3.9	13.8	27.6	45.3	68.9	90.5	110.2	127.9	143.7	155.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	3.9	11.8	25.6	41.3	61.0	82.7	100.4	118.1	131.9	143.7
115°	2.0	3.9	11.8	23.6	37.4	53.1	72.8	92.5	106.3	122.0	131.9
117.5°	2.0	3.9	9.8	19.7	35.4	49.2	66.9	82.7	98.4	112.2	122.0
120°	2.0	3.9	9.8	17.7	31.5	45.3	59.0	74.8	90.5	100.4	110.2
122.5°	2.0	3.9	7.9	17.7	27.6	41.3	53.1	66.9	80.7	92.5	102.3
125°	2.0	3.9	7.9	15.7	25.6	37.4	49.2	59.0	72.8	82.7	92.5
127.5°	2.0	3.9	7.9	13.8	23.6	33.5	45.3	55.1	64.9	74.8	82.7
130°	2.0	3.9	5.9	11.8	21.6	29.5	39.4	51.2	59.0	66.9	74.8
132.5°	2.0	3.9	5.9	11.8	17.7	25.6	35.4	45.3	53.1	61.0	66.9
135°	2.0	3.9	5.9	9.8	15.7	23.6	29.5	39.4	47.2	55.1	61.0
137.5°	2.0	3.9	5.9	9.8	13.8	19.7	25.6	33.5	41.3	47.2	55.1
140°	2.0	3.9	5.9	7.9	11.8	17.7	23.6	27.6	35.4	41.3	47.2
142.5°	2.0	3.9	5.9	7.9	11.8	15.7	19.7	23.6	29.5	35.4	41.3
145°	2.0	3.9	5.9	7.9	9.8	13.8	17.7	21.6	23.6	29.5	33.5
147.5°	2.0	3.9	5.9	7.9	7.9	11.8	15.7	17.7	21.6	23.6	27.6
150°	2.0	3.9	5.9	5.9	7.9	9.8	13.8	15.7	17.7	21.6	23.6
152.5°	2.0	3.9	5.9	5.9	7.9	9.8	11.8	13.8	15.7	17.7	19.7
155°	2.0	3.9	5.9	5.9	5.9	7.9	9.8	11.8	13.8	15.7	17.7
157.5°	3.9	3.9	3.9	5.9	5.9	7.9	7.9	9.8	11.8	11.8	13.8
160°	3.9	3.9	3.9	5.9	5.9	5.9	7.9	7.9	9.8	9.8	11.8
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3556.4	3562.3	3580.0	3580.0	3576.0	3572.1	3572.1	3566.2	3570.1	3578.0	3574.1
5°	3556.4	3562.3	3580.0	3580.0	3576.0	3572.1	3570.1	3564.2	3570.1	3578.0	3574.1
7.5°	3544.6	3552.4	3570.1	3570.1	3566.2	3564.2	3560.3	3556.4	3562.3	3570.1	3566.2
10°	3528.8	3536.7	3554.4	3554.4	3550.5	3550.5	3544.6	3540.6	3548.5	3554.4	3552.4
12.5°	3505.2	3515.0	3530.8	3528.8	3524.9	3526.8	3520.9	3513.1	3520.9	3526.8	3528.8
15°	3471.7	3483.5	3499.3	3495.3	3489.4	3493.4	3483.5	3477.6	3483.5	3495.3	3493.4
17.5°	3428.4	3436.3	3448.1	3448.1	3442.2	3438.3	3434.3	3428.4	3432.4	3440.2	3442.2
20°	3367.4	3377.3	3383.2	3377.3	3375.3	3369.4	3361.5	3355.6	3363.5	3375.3	3377.3
22.5°	3286.7	3288.7	3302.5	3288.7	3278.9	3276.9	3269.0	3257.2	3269.0	3278.9	3280.8
25°	3186.4	3196.2	3190.3	3166.7	3166.7	3150.9	3147.0	3141.1	3143.1	3160.8	3168.6
27.5°	3058.4	3062.4	3046.6	3026.9	3009.2	2999.4	2985.6	2987.6	2987.6	3011.2	3019.1
30°	2918.7	2897.0	2883.3	2851.8	2838.0	2814.4	2810.4	2810.4	2806.5	2818.3	2853.7
32.5°	2751.4	2721.9	2700.2	2670.7	2647.1	2623.5	2611.7	2617.6	2615.6	2645.1	2656.9
35°	2568.4	2550.7	2505.4	2468.0	2454.2	2418.8	2418.8	2401.1	2412.9	2446.4	2460.1
37.5°	2375.5	2347.9	2310.6	2269.2	2259.4	2231.8	2222.0	2212.1	2237.7	2243.6	2257.4
40°	2178.7	2153.1	2117.7	2078.3	2078.3	2044.9	2044.9	2044.9	2046.8	2058.6	2084.2
42.5°	1991.7	1964.2	1932.7	1905.1	1901.2	1875.6	1875.6	1873.6	1877.6	1887.4	1911.0
45°	1810.7	1789.0	1755.5	1741.8	1743.7	1716.2	1722.1	1716.2	1724.1	1733.9	1741.8
47.5°	1643.4	1629.6	1615.8	1596.1	1590.2	1588.3	1578.4	1570.5	1584.3	1584.3	1596.1
50°	1487.9	1480.0	1472.1	1460.3	1462.3	1454.4	1442.6	1442.6	1452.5	1454.4	1462.3
52.5°	1352.1	1342.2	1332.4	1334.4	1336.3	1332.4	1326.5	1320.6	1326.5	1330.4	1340.3
55°	1216.3	1208.4	1218.3	1214.3	1218.3	1214.3	1210.4	1206.4	1216.3	1210.4	1220.2
57.5°	1094.3	1102.1	1106.1	1098.2	1104.1	1100.2	1102.1	1096.2	1104.1	1108.0	1106.1
60°	982.1	993.9	988.0	990.0	997.8	993.9	986.0	991.9	999.8	1001.8	999.8
62.5°	879.7	893.5	899.4	895.5	897.5	893.5	899.4	891.6	901.4	905.3	899.4
65°	787.2	803.0	806.9	806.9	806.9	803.0	808.9	810.9	814.8	814.8	810.9
67.5°	708.5	722.3	726.2	730.2	726.2	722.3	722.3	724.3	732.1	736.1	732.1
70°	637.7	651.4	653.4	653.4	655.4	659.3	651.4	655.4	661.3	663.3	661.3
72.5°	576.7	590.4	594.4	592.4	594.4	596.3	596.3	592.4	598.3	602.2	602.2
75°	527.5	535.3	539.3	539.3	541.2	543.2	543.2	541.2	545.2	547.1	549.1
77.5°	482.2	488.1	494.0	494.0	496.0	494.0	497.9	497.9	499.9	501.9	503.8
80°	436.9	444.8	448.7	450.7	454.6	456.6	456.6	456.6	458.6	460.5	460.5
82.5°	401.5	407.4	413.3	419.2	419.2	421.2	421.2	421.2	423.1	423.1	425.1
85°	366.1	373.9	379.8	383.8	385.7	387.7	387.7	389.7	389.7	389.7	391.7
87.5°	334.6	344.4	348.4	352.3	354.3	358.2	358.2	358.2	360.2	360.2	360.2
90°	312.9	322.8	326.7	330.6	332.6	334.6	334.6	336.5	336.5	338.5	338.5
92.5°	287.3	297.2	305.1	305.1	307.0	311.0	309.0	309.0	311.0	312.9	312.9
95°	267.7	275.5	281.4	283.4	285.4	285.4	285.4	287.3	285.4	287.3	287.3
97.5°	244.0	251.9	257.8	261.8	263.7	263.7	263.7	265.7	263.7	265.7	265.7
100°	224.4	232.2	238.1	240.1	244.0	244.0	244.0	244.0	244.0	244.0	246.0
102.5°	208.6	216.5	220.4	222.4	224.4	226.3	226.3	226.3	226.3	228.3	228.3
105°	192.9	200.7	204.7	206.7	208.6	210.6	210.6	210.6	212.6	212.6	210.6
107.5°	179.1	185.0	188.9	192.9	194.8	194.8	196.8	196.8	196.8	196.8	196.8
110°	165.3	171.2	177.1	181.1	181.1	183.0	183.0	185.0	185.0	183.0	185.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	151.5	159.4	163.4	167.3	169.3	171.2	171.2	171.2	171.2	171.2	171.2
115°	139.7	147.6	151.5	155.5	157.4	159.4	159.4	159.4	159.4	159.4	159.4
117.5°	129.9	137.8	141.7	143.7	145.6	147.6	149.6	149.6	149.6	149.6	147.6
120°	120.1	126.0	129.9	133.8	135.8	137.8	137.8	137.8	137.8	137.8	137.8
122.5°	110.2	116.1	120.1	124.0	126.0	127.9	127.9	127.9	127.9	127.9	127.9
125°	100.4	106.3	110.2	114.1	116.1	118.1	118.1	118.1	118.1	118.1	118.1
127.5°	90.5	96.4	102.3	104.3	106.3	108.2	108.2	108.2	110.2	108.2	108.2
130°	80.7	86.6	92.5	94.5	96.4	98.4	100.4	100.4	100.4	100.4	98.4
132.5°	72.8	78.7	82.7	84.6	88.6	88.6	90.5	90.5	90.5	90.5	88.6
135°	66.9	70.9	74.8	76.8	80.7	80.7	80.7	82.7	82.7	80.7	78.7
137.5°	59.0	63.0	66.9	68.9	70.9	72.8	72.8	74.8	72.8	72.8	72.8
140°	55.1	57.1	61.0	63.0	64.9	64.9	64.9	66.9	66.9	64.9	64.9
142.5°	47.2	51.2	55.1	57.1	59.0	59.0	59.0	59.0	59.0	59.0	59.0
145°	39.4	45.3	47.2	51.2	51.2	53.1	53.1	53.1	53.1	53.1	51.2
147.5°	33.5	37.4	43.3	45.3	45.3	47.2	47.2	47.2	47.2	47.2	45.3
150°	25.6	29.5	35.4	39.4	39.4	41.3	41.3	41.3	41.3	39.4	39.4
152.5°	21.6	25.6	27.6	31.5	33.5	33.5	33.5	35.4	33.5	33.5	33.5
155°	19.7	21.6	23.6	25.6	27.6	29.5	29.5	29.5	29.5	27.6	27.6
157.5°	15.7	17.7	19.7	21.6	23.6	25.6	25.6	25.6	25.6	25.6	23.6
160°	11.8	13.8	15.7	15.7	17.7	19.7	21.6	19.7	19.7	19.7	19.7
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3570.1	3568.2	3574.1	3564.2	3534.7	3542.6	3538.6	3556.4	3560.3	3564.2	3581.9
5°	3570.1	3568.2	3572.1	3564.2	3532.7	3538.6	3534.7	3552.4	3556.4	3558.3	3576.0
7.5°	3562.3	3560.3	3566.2	3556.4	3522.9	3530.8	3524.9	3542.6	3544.6	3546.5	3562.3
10°	3546.5	3544.6	3548.5	3540.6	3507.2	3515.0	3507.2	3524.9	3524.9	3528.8	3540.6
12.5°	3522.9	3519.0	3526.8	3517.0	3479.6	3489.4	3485.5	3497.3	3499.3	3501.3	3513.1
15°	3489.4	3485.5	3491.4	3485.5	3452.1	3454.0	3448.1	3465.8	3467.8	3463.9	3475.7
17.5°	3440.2	3436.3	3448.1	3444.2	3410.7	3418.6	3416.6	3420.6	3426.5	3416.6	3432.4
20°	3379.2	3383.2	3387.1	3389.1	3363.5	3363.5	3361.5	3369.4	3375.3	3367.4	3379.2
22.5°	3288.7	3298.5	3310.3	3314.3	3296.6	3294.6	3306.4	3302.5	3308.4	3304.4	3312.3
25°	3174.5	3194.2	3206.0	3217.8	3208.0	3211.9	3229.7	3233.6	3233.6	3231.6	3239.5
27.5°	3032.8	3058.4	3080.1	3105.7	3095.8	3103.7	3133.2	3137.2	3145.0	3137.2	3152.9
30°	2863.6	2887.2	2928.5	2965.9	2969.9	2981.7	3023.0	3026.9	3048.6	3040.7	3046.6
32.5°	2694.3	2706.1	2753.4	2790.8	2814.4	2843.9	2889.2	2897.0	2926.6	2932.5	2932.5
35°	2481.8	2515.2	2558.5	2611.7	2641.2	2672.7	2733.7	2745.5	2788.8	2802.6	2818.3
37.5°	2302.7	2334.2	2361.7	2416.8	2470.0	2505.4	2554.6	2584.1	2629.4	2655.0	2674.7
40°	2111.8	2137.4	2166.9	2222.0	2267.3	2320.4	2369.6	2405.0	2462.1	2491.6	2517.2
42.5°	1930.7	1950.4	1981.9	2021.2	2068.5	2127.5	2174.8	2216.1	2277.1	2318.4	2347.9
45°	1769.3	1781.1	1808.7	1838.2	1879.5	1940.5	1985.8	2039.0	2088.2	2131.5	2166.9
47.5°	1617.8	1633.5	1647.3	1667.0	1704.4	1741.8	1794.9	1846.1	1895.3	1942.5	1977.9
50°	1478.0	1478.0	1499.7	1513.5	1539.1	1572.5	1613.8	1649.3	1710.3	1743.7	1789.0
52.5°	1342.2	1350.1	1361.9	1369.8	1389.5	1411.1	1444.6	1474.1	1525.3	1556.8	1600.1
55°	1222.2	1230.1	1236.0	1239.9	1251.7	1277.3	1289.1	1312.7	1348.1	1373.7	1411.1
57.5°	1108.0	1112.0	1117.9	1119.8	1121.8	1137.6	1147.4	1153.3	1188.7	1214.3	1245.8
60°	1003.7	1003.7	1009.6	1007.7	1005.7	1013.6	1011.6	1017.5	1039.2	1054.9	1068.7
62.5°	905.3	905.3	907.3	903.4	901.4	901.4	893.5	899.4	905.3	907.3	917.1
65°	814.8	824.6	816.8	818.7	806.9	803.0	799.0	787.2	785.3	777.4	781.3
67.5°	734.1	742.0	734.1	734.1	724.3	716.4	706.5	686.9	681.0	665.2	661.3
70°	669.2	663.3	667.2	661.3	649.5	639.6	625.9	610.1	590.4	570.7	557.0
72.5°	606.2	606.2	602.2	596.3	590.4	570.7	555.0	537.3	513.7	488.1	468.4
75°	545.2	547.1	547.1	541.2	531.4	513.7	496.0	470.4	444.8	415.3	389.7
77.5°	501.9	501.9	501.9	492.0	482.2	466.4	444.8	417.2	389.7	354.3	324.7
80°	460.5	458.6	458.6	446.8	436.9	419.2	397.6	370.0	340.5	303.1	269.6
82.5°	427.1	425.1	421.2	411.3	397.6	379.8	358.2	328.7	297.2	263.7	222.4
85°	391.7	389.7	385.7	375.9	362.1	346.4	322.8	293.2	261.8	224.4	185.0
87.5°	360.2	358.2	352.3	346.4	330.6	312.9	289.3	261.8	228.3	192.9	153.5
90°	338.5	334.6	330.6	322.8	309.0	289.3	265.7	236.2	202.7	167.3	127.9
92.5°	312.9	311.0	305.1	297.2	285.4	265.7	242.1	214.5	181.1	147.6	110.2
95°	287.3	285.4	281.4	273.6	261.8	244.0	222.4	194.8	163.4	129.9	96.4
97.5°	263.7	263.7	257.8	251.9	238.1	224.4	202.7	177.1	147.6	118.1	86.6
100°	244.0	244.0	238.1	230.3	220.4	206.7	185.0	161.4	133.8	106.3	74.8
102.5°	226.3	224.4	220.4	212.6	202.7	188.9	169.3	147.6	122.0	94.5	66.9
105°	210.6	208.6	204.7	196.8	188.9	173.2	157.4	135.8	110.2	84.6	59.0
107.5°	194.8	192.9	190.9	183.0	173.2	159.4	143.7	122.0	100.4	76.8	53.1
110°	181.1	179.1	175.2	167.3	157.4	145.6	129.9	112.2	90.5	68.9	47.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.3	167.3	163.4	155.5	147.6	133.8	120.1	100.4	82.7	63.0	41.3
115°	157.4	155.5	151.5	143.7	133.8	122.0	108.2	92.5	72.8	55.1	37.4
117.5°	145.6	143.7	139.7	133.8	124.0	112.2	98.4	82.7	64.9	51.2	33.5
120°	135.8	131.9	127.9	122.0	112.2	102.3	88.6	74.8	59.0	45.3	29.5
122.5°	126.0	122.0	118.1	112.2	102.3	92.5	78.7	66.9	55.1	41.3	27.6
125°	114.1	112.2	108.2	102.3	92.5	82.7	72.8	61.0	49.2	37.4	23.6
127.5°	104.3	102.3	98.4	90.5	82.7	74.8	64.9	55.1	43.3	31.5	21.6
130°	96.4	92.5	88.6	82.7	76.8	68.9	59.0	49.2	39.4	27.6	19.7
132.5°	86.6	82.7	78.7	74.8	68.9	61.0	53.1	43.3	35.4	25.6	17.7
135°	78.7	74.8	70.9	66.9	61.0	55.1	47.2	39.4	31.5	23.6	15.7
137.5°	68.9	66.9	64.9	61.0	55.1	49.2	43.3	33.5	27.6	21.6	13.8
140°	63.0	61.0	59.0	53.1	49.2	43.3	37.4	29.5	23.6	17.7	11.8
142.5°	57.1	55.1	51.2	47.2	43.3	39.4	31.5	27.6	21.6	15.7	11.8
145°	49.2	47.2	45.3	41.3	37.4	31.5	27.6	23.6	19.7	13.8	9.8
147.5°	45.3	43.3	39.4	35.4	31.5	27.6	25.6	21.6	15.7	11.8	7.9
150°	37.4	35.4	33.5	29.5	27.6	25.6	21.6	17.7	13.8	9.8	7.9
152.5°	31.5	29.5	27.6	27.6	23.6	21.6	17.7	15.7	11.8	9.8	5.9
155°	27.6	27.6	25.6	23.6	19.7	17.7	15.7	11.8	9.8	7.9	5.9
157.5°	23.6	21.6	19.7	19.7	17.7	15.7	11.8	9.8	7.9	7.9	5.9
160°	19.7	17.7	17.7	15.7	13.8	11.8	9.8	9.8	7.9	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-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3583.9	3562.3	3581.9	3607.5	3607.5	3603.6	3599.7	3607.5	3627.2	3619.3	3595.7
5°	3578.0	3556.4	3574.1	3599.7	3599.7	3593.8	3589.8	3595.7	3617.4	3607.5	3585.9
7.5°	3566.2	3546.5	3558.3	3581.9	3581.9	3576.0	3572.1	3580.0	3597.7	3587.8	3564.2
10°	3544.6	3522.9	3536.7	3558.3	3556.4	3552.4	3546.5	3556.4	3572.1	3558.3	3530.8
12.5°	3517.0	3495.3	3507.2	3526.8	3524.9	3517.0	3513.1	3519.0	3532.7	3524.9	3495.3
15°	3479.6	3458.0	3467.8	3487.5	3481.6	3475.7	3467.8	3469.8	3487.5	3473.7	3442.2
17.5°	3434.3	3410.7	3418.6	3436.3	3430.4	3424.5	3414.7	3416.6	3436.3	3416.6	3383.2
20°	3379.2	3353.6	3359.5	3381.2	3371.4	3361.5	3351.7	3351.7	3371.4	3349.7	3312.3
22.5°	3320.2	3294.6	3298.5	3314.3	3306.4	3288.7	3278.9	3284.8	3294.6	3267.0	3227.7
25°	3247.4	3213.9	3219.8	3235.6	3229.7	3206.0	3196.2	3200.1	3196.2	3174.5	3133.2
27.5°	3162.7	3127.3	3131.3	3141.1	3133.2	3111.6	3099.8	3101.7	3093.9	3066.3	3019.1
30°	3056.5	3038.7	3036.8	3042.7	3030.9	3009.2	2995.5	2991.5	2989.5	2950.2	2893.1
32.5°	2948.2	2932.5	2922.6	2930.5	2916.7	2895.1	2871.5	2871.5	2851.8	2814.4	2765.2
35°	2838.0	2812.4	2802.6	2808.5	2792.7	2765.2	2745.5	2735.7	2706.1	2658.9	2605.8
37.5°	2696.3	2678.6	2666.8	2672.7	2655.0	2635.3	2597.9	2588.1	2556.6	2491.6	2424.7
40°	2542.8	2529.0	2517.2	2523.1	2503.4	2473.9	2440.4	2424.7	2389.3	2316.5	2263.3
42.5°	2377.5	2371.6	2357.8	2379.4	2340.1	2310.6	2277.1	2251.5	2216.1	2137.4	2076.3
45°	2202.3	2216.1	2184.6	2190.5	2164.9	2139.3	2103.9	2066.5	2031.1	1956.3	1887.4
47.5°	2017.3	2027.1	2005.5	2009.4	1981.9	1958.3	1926.8	1879.5	1840.2	1775.2	1714.2
50°	1826.4	1822.5	1822.5	1818.5	1796.9	1767.4	1735.9	1692.6	1653.2	1594.2	1543.0
52.5°	1623.7	1631.6	1635.5	1645.3	1617.8	1600.1	1550.9	1513.5	1483.9	1422.9	1379.6
55°	1428.8	1456.4	1448.5	1452.5	1421.0	1407.2	1367.8	1338.3	1295.0	1259.6	1232.0
57.5°	1251.7	1257.6	1261.6	1267.5	1253.7	1226.1	1194.6	1171.0	1137.6	1108.0	1088.4
60°	1080.5	1080.5	1082.5	1092.3	1078.5	1054.9	1031.3	1013.6	990.0	972.2	960.4
62.5°	919.1	932.9	934.8	927.0	909.3	897.5	881.7	871.9	856.1	850.2	846.3
65°	769.5	769.5	769.5	773.5	763.6	755.8	745.9	743.9	749.8	742.0	745.9
67.5°	643.6	637.7	633.7	635.7	631.8	627.8	625.9	631.8	643.6	643.6	653.4
70°	535.3	523.5	515.6	515.6	515.6	517.6	523.5	535.3	555.0	562.9	576.7
72.5°	446.8	421.2	409.4	409.4	411.3	419.2	436.9	458.6	476.3	492.0	509.7
75°	362.1	336.5	318.8	316.9	320.8	332.6	358.2	377.9	407.4	429.0	450.7
77.5°	293.2	261.8	240.1	238.1	244.0	261.8	293.2	318.8	352.3	375.9	399.5
80°	234.2	198.8	181.1	169.3	179.1	200.7	236.2	267.7	299.2	330.6	360.2
82.5°	187.0	153.5	126.0	114.1	126.0	155.5	188.9	226.3	257.8	291.3	320.8
85°	147.6	112.2	80.7	68.9	82.7	114.1	151.5	188.9	224.4	257.8	287.3
87.5°	116.1	80.7	49.2	33.5	51.2	84.6	120.1	157.4	194.8	228.3	257.8
90°	90.5	57.1	27.6	3.9	29.5	61.0	96.4	131.9	169.3	202.7	232.2
92.5°	76.8	43.3	15.7	0.0	17.7	45.3	78.7	114.1	147.6	181.1	210.6
95°	64.9	35.4	11.8	0.0	11.8	35.4	64.9	96.4	129.9	163.4	192.9
97.5°	55.1	27.6	7.9	0.0	7.9	27.6	53.1	84.6	114.1	145.6	173.2
100°	47.2	23.6	5.9	0.0	5.9	21.6	45.3	72.8	102.3	131.9	157.4
102.5°	41.3	19.7	3.9	0.0	3.9	17.7	37.4	63.0	88.6	116.1	141.7
105°	35.4	15.7	3.9	0.0	2.0	13.8	31.5	55.1	78.7	104.3	127.9
107.5°	31.5	13.8	3.9	0.0	2.0	11.8	27.6	47.2	70.9	92.5	114.1
110°	27.6	11.8	3.9	0.0	2.0	7.9	23.6	41.3	61.0	82.7	104.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.6	9.8	2.0	0.0	0.0	5.9	19.7	35.4	53.1	74.8	92.5
115°	21.6	9.8	2.0	0.0	0.0	3.9	15.7	31.5	47.2	66.9	82.7
117.5°	19.7	7.9	2.0	0.0	2.0	3.9	13.8	27.6	41.3	57.1	74.8
120°	17.7	7.9	2.0	0.0	2.0	2.0	9.8	23.6	35.4	51.2	64.9
122.5°	15.7	7.9	2.0	0.0	2.0	2.0	7.9	19.7	31.5	45.3	57.1
125°	13.8	5.9	3.9	2.0	2.0	2.0	5.9	15.7	27.6	37.4	51.2
127.5°	13.8	5.9	3.9	2.0	2.0	2.0	3.9	13.8	21.6	33.5	45.3
130°	11.8	5.9	3.9	2.0	2.0	2.0	2.0	9.8	19.7	27.6	37.4
132.5°	9.8	5.9	3.9	2.0	2.0	2.0	2.0	5.9	13.8	23.6	31.5
135°	9.8	5.9	3.9	2.0	2.0	2.0	2.0	3.9	9.8	17.7	25.6
137.5°	7.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	7.9	13.8	19.7
140°	7.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	5.9	9.8	15.7
142.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	3.9	7.9	11.8
145°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	7.9
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-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3587.8	3550.5	3570.1	3564.2	3572.1	3587.8	3585.9	3581.9	3581.9	3576.0	3568.2
5°	3576.0	3540.6	3558.3	3548.5	3558.3	3572.1	3570.1	3564.2	3568.2	3558.3	3548.5
7.5°	3552.4	3520.9	3536.7	3528.8	3536.7	3550.5	3544.6	3542.6	3546.5	3530.8	3524.9
10°	3524.9	3489.4	3507.2	3497.3	3507.2	3517.0	3513.1	3505.2	3513.1	3497.3	3491.4
12.5°	3481.6	3452.1	3463.9	3459.9	3465.8	3475.7	3467.8	3461.9	3465.8	3452.1	3440.2
15°	3434.3	3404.8	3414.7	3408.8	3412.7	3424.5	3410.7	3408.8	3404.8	3391.0	3387.1
17.5°	3373.3	3345.8	3355.6	3345.8	3351.7	3347.7	3345.8	3335.9	3335.9	3320.2	3308.4
20°	3298.5	3274.9	3269.0	3261.1	3269.0	3261.1	3249.3	3241.5	3239.5	3223.8	3213.9
22.5°	3211.9	3184.4	3188.3	3166.7	3168.6	3156.8	3137.2	3129.3	3121.4	3103.7	3089.9
25°	3107.6	3080.1	3060.4	3046.6	3028.9	3026.9	3001.4	2981.7	2979.7	2958.1	2956.1
27.5°	2989.5	2958.1	2942.3	2908.9	2887.2	2869.5	2847.8	2828.2	2818.3	2794.7	2779.0
30°	2853.7	2818.3	2779.0	2755.3	2721.9	2708.1	2670.7	2647.1	2639.2	2613.6	2601.8
32.5°	2700.2	2662.8	2631.4	2586.1	2548.7	2529.0	2491.6	2468.0	2458.2	2430.6	2414.9
35°	2532.9	2491.6	2454.2	2410.9	2381.4	2347.9	2302.7	2279.1	2257.4	2247.6	2235.8
37.5°	2357.8	2312.5	2269.2	2225.9	2200.3	2161.0	2121.6	2105.9	2080.3	2070.4	2058.6
40°	2176.7	2131.5	2090.1	2048.8	2019.3	1983.8	1948.4	1942.5	1915.0	1905.1	1897.3
42.5°	1997.6	1950.4	1903.2	1873.6	1852.0	1816.6	1792.9	1787.0	1763.4	1757.5	1757.5
45°	1836.2	1777.2	1737.8	1712.2	1694.5	1665.0	1645.3	1641.4	1621.7	1617.8	1617.8
47.5°	1663.0	1607.9	1578.4	1562.7	1546.9	1525.3	1513.5	1513.5	1493.8	1489.9	1487.9
50°	1501.7	1450.5	1428.8	1413.1	1411.1	1395.4	1385.5	1381.6	1381.6	1367.8	1369.8
52.5°	1348.1	1322.6	1304.9	1295.0	1283.2	1273.4	1265.5	1265.5	1259.6	1249.7	1253.7
55°	1206.4	1176.9	1178.9	1171.0	1165.1	1159.2	1161.2	1149.4	1147.4	1139.5	1145.4
57.5°	1064.7	1064.7	1060.8	1054.9	1045.1	1049.0	1049.0	1049.0	1039.2	1033.3	1039.2
60°	944.7	950.6	940.8	946.7	942.7	944.7	940.8	940.8	934.8	932.9	934.8
62.5°	838.4	848.3	844.3	852.2	848.3	850.2	854.2	846.3	842.3	838.4	842.3
65°	743.9	755.8	753.8	759.7	761.7	763.6	765.6	761.7	757.7	753.8	751.8
67.5°	661.3	673.1	681.0	682.9	684.9	690.8	688.8	684.9	681.0	675.1	673.1
70°	586.5	602.2	612.1	616.0	623.9	620.0	620.0	618.0	614.0	608.1	606.2
72.5°	523.5	541.2	551.1	555.0	562.9	562.9	560.9	558.9	555.0	549.1	547.1
75°	468.4	484.2	497.9	505.8	511.7	511.7	509.7	507.8	503.8	499.9	497.9
77.5°	425.1	438.9	450.7	460.5	464.5	466.4	464.5	460.5	460.5	458.6	456.6
80°	381.8	397.6	409.4	419.2	425.1	425.1	423.1	425.1	421.2	419.2	417.2
82.5°	344.4	362.1	375.9	385.7	389.7	391.7	389.7	391.7	387.7	387.7	387.7
85°	311.0	328.7	344.4	352.3	358.2	360.2	360.2	360.2	358.2	358.2	358.2
87.5°	283.4	301.1	316.9	324.7	330.6	332.6	332.6	334.6	330.6	330.6	330.6
90°	257.8	275.5	291.3	299.2	305.1	309.0	309.0	311.0	309.0	307.0	307.0
92.5°	234.2	253.9	269.6	277.5	283.4	289.3	289.3	291.3	287.3	287.3	287.3
95°	214.5	234.2	248.0	257.8	263.7	267.7	269.6	269.6	267.7	267.7	267.7
97.5°	196.8	214.5	228.3	238.1	244.0	246.0	248.0	249.9	248.0	248.0	248.0
100°	179.1	196.8	210.6	218.5	226.3	228.3	230.3	232.2	232.2	230.3	230.3
102.5°	163.4	181.1	192.9	202.7	208.6	212.6	214.5	214.5	214.5	214.5	214.5
105°	147.6	165.3	177.1	187.0	192.9	196.8	198.8	200.7	200.7	198.8	198.8
107.5°	133.8	149.6	163.4	171.2	179.1	183.0	185.0	185.0	187.0	185.0	185.0
110°	120.1	137.8	149.6	157.4	165.3	169.3	171.2	173.2	173.2	173.2	173.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	110.2	124.0	135.8	143.7	151.5	155.5	157.4	159.4	161.4	159.4	159.4
115°	98.4	112.2	124.0	131.9	137.8	141.7	145.6	147.6	147.6	149.6	147.6
117.5°	88.6	100.4	112.2	120.1	126.0	131.9	133.8	135.8	137.8	135.8	135.8
120°	78.7	90.5	100.4	108.2	114.1	120.1	122.0	124.0	126.0	124.0	124.0
122.5°	70.9	80.7	90.5	98.4	104.3	108.2	112.2	112.2	114.1	114.1	114.1
125°	63.0	72.8	80.7	88.6	94.5	98.4	100.4	102.3	102.3	104.3	104.3
127.5°	55.1	63.0	72.8	78.7	84.6	88.6	90.5	92.5	92.5	94.5	94.5
130°	47.2	55.1	63.0	68.9	74.8	78.7	80.7	82.7	84.6	84.6	84.6
132.5°	41.3	49.2	55.1	61.0	64.9	68.9	72.8	74.8	74.8	74.8	74.8
135°	33.5	41.3	47.2	53.1	57.1	61.0	63.0	66.9	66.9	66.9	66.9
137.5°	27.6	35.4	41.3	45.3	49.2	53.1	55.1	57.1	59.0	59.0	59.0
140°	21.6	27.6	33.5	39.4	43.3	45.3	49.2	49.2	51.2	51.2	51.2
142.5°	15.7	21.6	25.6	31.5	35.4	39.4	41.3	43.3	43.3	43.3	43.3
145°	11.8	15.7	19.7	23.6	29.5	31.5	33.5	35.4	37.4	37.4	37.4
147.5°	7.9	11.8	13.8	17.7	21.6	25.6	27.6	29.5	31.5	31.5	31.5
150°	5.9	7.9	11.8	13.8	15.7	19.7	23.6	23.6	25.6	25.6	23.6
152.5°	3.9	5.9	7.9	9.8	11.8	13.8	17.7	17.7	19.7	19.7	19.7
155°	3.9	3.9	3.9	5.9	7.9	9.8	11.8	13.8	13.8	13.8	13.8
157.5°	3.9	3.9	3.9	3.9	3.9	5.9	7.9	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-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3574.1	3578.0	3578.0	3574.1	3572.1	3580.0	3570.1	3532.7	3544.6	3548.5	3560.3
5°	3556.4	3560.3	3560.3	3560.3	3556.4	3564.2	3554.4	3517.0	3530.8	3536.7	3544.6
7.5°	3530.8	3532.7	3536.7	3534.7	3530.8	3542.6	3532.7	3495.3	3505.2	3515.0	3524.9
10°	3497.3	3497.3	3499.3	3503.2	3499.3	3509.1	3499.3	3465.8	3475.7	3481.6	3493.4
12.5°	3452.1	3456.0	3458.0	3456.0	3454.0	3461.9	3458.0	3426.5	3430.4	3442.2	3454.0
15°	3391.0	3391.0	3400.9	3396.9	3396.9	3404.8	3408.8	3373.3	3379.2	3396.9	3408.8
17.5°	3316.3	3318.2	3326.1	3330.0	3328.1	3341.8	3343.8	3316.3	3314.3	3335.9	3347.7
20°	3219.8	3223.8	3233.6	3241.5	3241.5	3257.2	3263.1	3245.4	3247.4	3271.0	3274.9
22.5°	3101.7	3101.7	3119.4	3131.3	3141.1	3150.9	3168.6	3152.9	3152.9	3184.4	3202.1
25°	2956.1	2969.9	2975.8	2999.4	3013.2	3040.7	3056.5	3058.4	3060.4	3089.9	3101.7
27.5°	2794.7	2798.6	2816.4	2843.9	2859.7	2885.2	2914.8	2920.7	2930.5	2969.9	2987.6
30°	2611.7	2623.5	2631.4	2670.7	2692.4	2725.8	2763.2	2777.0	2784.9	2838.0	2859.7
32.5°	2424.7	2428.6	2462.1	2483.7	2509.3	2544.8	2588.1	2613.6	2629.4	2684.5	2716.0
35°	2237.7	2245.6	2273.2	2300.7	2326.3	2361.7	2407.0	2442.4	2470.0	2519.2	2560.5
37.5°	2066.5	2086.2	2092.1	2119.6	2139.3	2174.8	2206.2	2257.4	2285.0	2336.1	2389.3
40°	1913.0	1918.9	1922.8	1950.4	1964.2	1997.6	2042.9	2076.3	2113.7	2151.1	2214.1
42.5°	1761.5	1765.4	1771.3	1787.0	1802.8	1826.4	1859.9	1893.3	1932.7	1987.8	2029.1
45°	1621.7	1625.7	1629.6	1639.4	1653.2	1674.9	1696.5	1720.1	1759.5	1806.7	1850.0
47.5°	1491.8	1499.7	1499.7	1501.7	1511.5	1529.2	1545.0	1574.5	1596.1	1621.7	1670.9
50°	1367.8	1373.7	1375.7	1375.7	1381.6	1393.4	1397.4	1417.0	1436.7	1460.3	1495.8
52.5°	1251.7	1251.7	1249.7	1257.6	1257.6	1265.5	1267.5	1279.3	1293.0	1318.6	1334.4
55°	1141.5	1141.5	1147.4	1143.5	1143.5	1147.4	1145.4	1147.4	1159.2	1175.0	1188.7
57.5°	1035.2	1033.3	1039.2	1035.2	1033.3	1037.2	1041.1	1033.3	1035.2	1051.0	1051.0
60°	928.9	930.9	936.8	932.9	932.9	932.9	928.9	925.0	921.1	930.9	934.8
62.5°	844.3	838.4	844.3	838.4	842.3	840.4	836.4	828.6	830.5	826.6	822.7
65°	755.8	755.8	757.7	751.8	755.8	755.8	749.8	747.9	736.1	732.1	722.3
67.5°	679.0	679.0	681.0	677.0	677.0	679.0	673.1	667.2	655.4	649.5	635.7
70°	612.1	612.1	612.1	610.1	610.1	610.1	606.2	598.3	586.5	576.7	558.9
72.5°	551.1	553.0	551.1	551.1	557.0	551.1	545.2	537.3	527.5	507.8	492.0
75°	501.9	503.8	501.9	501.9	501.9	499.9	497.9	486.1	474.3	458.6	435.0
77.5°	458.6	458.6	460.5	458.6	458.6	456.6	450.7	440.9	427.1	413.3	385.7
80°	417.2	419.2	421.2	423.1	419.2	417.2	411.3	403.5	385.7	370.0	342.4
82.5°	387.7	385.7	387.7	389.7	385.7	383.8	377.9	368.0	354.3	332.6	305.1
85°	358.2	356.2	356.2	358.2	356.2	352.3	346.4	336.5	322.8	301.1	273.6
87.5°	328.7	330.6	332.6	330.6	328.7	324.7	318.8	309.0	293.2	275.5	246.0
90°	307.0	307.0	307.0	307.0	305.1	301.1	295.2	283.4	269.6	248.0	222.4
92.5°	287.3	287.3	287.3	287.3	285.4	279.5	273.6	263.7	248.0	226.3	202.7
95°	267.7	269.6	267.7	267.7	263.7	261.8	251.9	242.1	228.3	206.7	181.1
97.5°	246.0	248.0	246.0	246.0	244.0	240.1	234.2	222.4	208.6	188.9	165.3
100°	230.3	230.3	228.3	228.3	226.3	222.4	214.5	204.7	190.9	171.2	147.6
102.5°	212.6	214.5	212.6	212.6	208.6	204.7	198.8	188.9	175.2	155.5	133.8
105°	198.8	198.8	196.8	196.8	192.9	188.9	183.0	171.2	159.4	141.7	120.1
107.5°	185.0	185.0	183.0	183.0	179.1	175.2	167.3	157.4	145.6	127.9	108.2
110°	171.2	171.2	171.2	169.3	165.3	159.4	153.5	143.7	131.9	116.1	96.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.4	159.4	157.4	155.5	151.5	147.6	139.7	129.9	118.1	104.3	86.6
115°	147.6	147.6	145.6	143.7	139.7	133.8	127.9	120.1	108.2	92.5	76.8
117.5°	135.8	135.8	133.8	131.9	127.9	122.0	116.1	108.2	96.4	82.7	68.9
120°	124.0	124.0	122.0	120.1	116.1	110.2	106.3	96.4	86.6	72.8	61.0
122.5°	114.1	112.2	112.2	108.2	106.3	100.4	94.5	86.6	76.8	64.9	53.1
125°	102.3	102.3	100.4	98.4	96.4	90.5	84.6	76.8	66.9	57.1	47.2
127.5°	92.5	92.5	90.5	88.6	86.6	80.7	74.8	68.9	59.0	49.2	39.4
130°	82.7	82.7	80.7	78.7	76.8	70.9	66.9	59.0	51.2	43.3	33.5
132.5°	74.8	74.8	72.8	70.9	66.9	63.0	59.0	51.2	45.3	37.4	29.5
135°	66.9	64.9	64.9	63.0	59.0	55.1	51.2	45.3	37.4	31.5	23.6
137.5°	59.0	57.1	55.1	53.1	51.2	47.2	43.3	39.4	33.5	25.6	19.7
140°	51.2	49.2	49.2	47.2	43.3	41.3	37.4	31.5	27.6	21.6	15.7
142.5°	43.3	43.3	41.3	39.4	37.4	35.4	31.5	27.6	21.6	17.7	11.8
145°	37.4	35.4	35.4	33.5	31.5	27.6	25.6	21.6	17.7	13.8	9.8
147.5°	29.5	29.5	29.5	27.6	25.6	23.6	21.6	17.7	13.8	9.8	5.9
150°	23.6	23.6	23.6	21.6	19.7	17.7	15.7	13.8	9.8	5.9	3.9
152.5°	19.7	19.7	17.7	17.7	15.7	13.8	11.8	9.8	5.9	3.9	3.9
155°	13.8	13.8	13.8	11.8	11.8	9.8	7.9	5.9	3.9	3.9	3.9
157.5°	9.8	9.8	9.8	7.9	7.9	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-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0	3578.0
2.5°	3554.4	3552.4	3568.2	3568.2	3550.5	3578.0	3607.5
5°	3542.6	3540.6	3556.4	3556.4	3540.6	3568.2	3599.7
7.5°	3519.0	3520.9	3536.7	3540.6	3520.9	3546.5	3580.0
10°	3493.4	3491.4	3509.1	3513.1	3497.3	3520.9	3552.4
12.5°	3452.1	3452.1	3469.8	3475.7	3459.9	3487.5	3517.0
15°	3408.8	3408.8	3420.6	3430.4	3416.6	3442.2	3471.7
17.5°	3353.6	3351.7	3363.5	3375.3	3361.5	3389.1	3420.6
20°	3282.8	3282.8	3296.6	3310.3	3300.5	3326.1	3361.5
22.5°	3208.0	3200.1	3223.8	3233.6	3227.7	3253.3	3288.7
25°	3113.5	3111.6	3135.2	3149.0	3141.1	3168.6	3200.1
27.5°	3011.2	3009.2	3032.8	3050.6	3046.6	3072.2	3107.6
30°	2887.2	2897.0	2918.7	2948.2	2938.4	2965.9	3003.3
32.5°	2757.3	2767.2	2792.7	2824.2	2826.2	2847.8	2885.2
35°	2601.8	2627.4	2645.1	2686.5	2694.3	2716.0	2755.3
37.5°	2438.5	2468.0	2505.4	2536.9	2552.6	2570.3	2615.6
40°	2255.4	2298.7	2340.1	2377.5	2397.1	2414.9	2458.2
42.5°	2090.1	2123.6	2162.9	2200.3	2235.8	2251.5	2296.8
45°	1903.2	1942.5	1977.9	2023.2	2058.6	2076.3	2121.6
47.5°	1720.1	1759.5	1806.7	1838.2	1875.6	1893.3	1936.6
50°	1545.0	1580.4	1619.7	1657.1	1688.6	1704.4	1741.8
52.5°	1371.8	1409.2	1446.6	1470.2	1503.6	1515.4	1546.9
55°	1218.3	1243.8	1277.3	1291.1	1324.5	1332.4	1354.1
57.5°	1070.6	1088.4	1100.2	1123.8	1147.4	1165.1	1190.7
60°	936.8	944.7	952.6	966.3	986.0	991.9	1001.8
62.5°	816.8	814.8	830.5	834.5	836.4	856.1	846.3
65°	710.5	712.5	698.7	692.8	700.6	706.5	702.6
67.5°	621.9	610.1	598.3	584.5	572.7	578.6	572.7
70°	535.3	525.5	505.8	486.1	478.2	466.4	460.5
72.5°	466.4	442.8	423.1	397.6	383.8	370.0	360.2
75°	413.3	379.8	352.3	324.7	305.1	285.4	281.4
77.5°	358.2	326.7	295.2	265.7	236.2	214.5	206.7
80°	314.9	285.4	248.0	212.6	181.1	153.5	143.7
82.5°	275.5	244.0	206.7	169.3	133.8	104.3	92.5
85°	242.1	208.6	171.2	133.8	98.4	66.9	51.2
87.5°	216.5	179.1	141.7	106.3	68.9	37.4	19.7
90°	192.9	157.4	122.0	84.6	49.2	19.7	0.0
92.5°	171.2	137.8	102.3	68.9	37.4	11.8	2.0
95°	151.5	122.0	86.6	55.1	27.6	7.9	2.0
97.5°	135.8	106.3	74.8	45.3	21.6	5.9	2.0
100°	122.0	92.5	64.9	37.4	17.7	3.9	2.0
102.5°	108.2	82.7	55.1	31.5	13.8	2.0	2.0
105°	96.4	72.8	47.2	27.6	11.8	2.0	2.0
107.5°	86.6	64.9	41.3	23.6	7.9	2.0	2.0
110°	76.8	55.1	35.4	19.7	5.9	2.0	2.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	68.9	49.2	31.5	15.7	3.9	2.0	2.0
115°	61.0	43.3	27.6	13.8	3.9	2.0	2.0
117.5°	53.1	37.4	23.6	9.8	2.0	2.0	2.0
120°	47.2	33.5	19.7	7.9	2.0	2.0	2.0
122.5°	41.3	27.6	15.7	5.9	2.0	2.0	2.0
125°	35.4	23.6	13.8	3.9	2.0	2.0	2.0
127.5°	29.5	19.7	9.8	3.9	2.0	2.0	2.0
130°	25.6	15.7	7.9	2.0	2.0	2.0	2.0
132.5°	21.6	11.8	5.9	2.0	2.0	2.0	2.0
135°	17.7	9.8	3.9	2.0	2.0	2.0	2.0
137.5°	13.8	7.9	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°	7.9	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)