

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-L940-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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

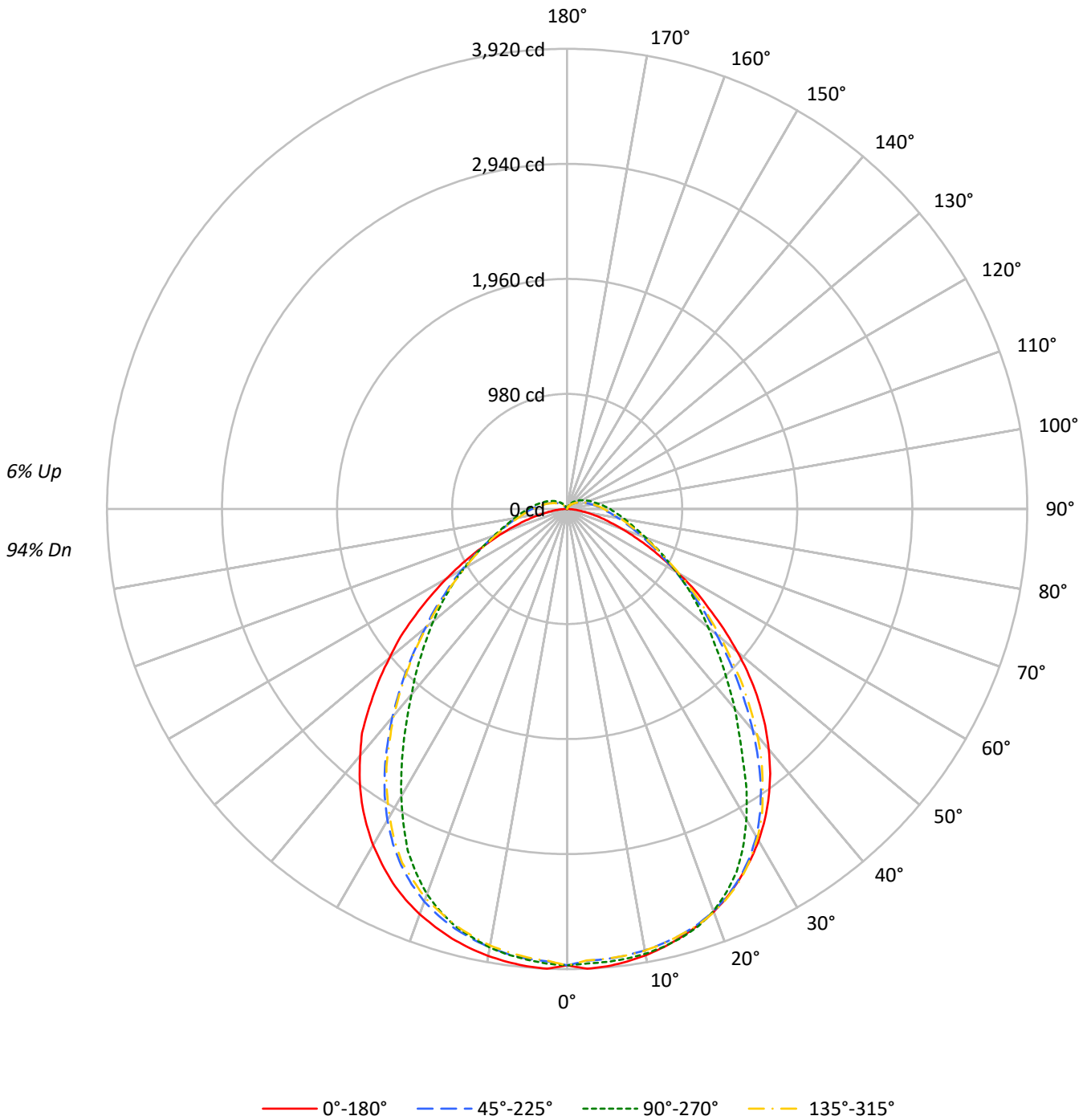
Lumens per Lamp: N/A
Luminaire Lumens: 9839.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

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°	15709	15709	15709	15709
5°	15842	15208	15842	15141
10°	15793	14805	15820	14599
15°	15714	14362	15785	13988
20°	15617	13793	15708	13211
25°	15390	12950	15560	12187
30°	15090	11710	15287	10841
35°	14608	10191	14889	9489
40°	13906	8912	14273	8269
45°	12970	7748	13392	7303
50°	11679	6808	12194	6464
55°	10138	6012	10875	5708
60°	8564	5278	9339	4974
65°	7062	4667	7774	4327
70°	5668	4141	6347	3831
75°	4511	3824	5079	3518
80°	3337	3689	3931	3372
85°	2187	3710	2942	3410



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	3.7
10°-20°	1056.9	10.7
20°-30°	1566.4	15.9
30°-40°	1740.2	17.7
40°-50°	1577.5	16.0
50°-60°	1222.4	12.4
60°-70°	830.1	8.4
70°-80°	528.1	5.4
80°-90°	337.6	3.4
90°-100°	227.6	2.3
100°-110°	155.9	1.6
110°-120°	104.0	1.1
120°-130°	64.7	0.7
130°-140°	35.8	0.4
140°-150°	16.8	0.2
150°-160°	6.2	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2991.8	30.4
0°-40°	4732.0	48.1
0°-60°	7531.9	76.6
0°-90°	9227.6	93.8
90°-120°	487.6	5.0
90°-150°	604.8	6.1
90°-180°	611.0	6.2
0°-180°	9839.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3888	3888	3888	3888	3888	
5°	3911	3873	3911	3856	3911	372
15°	3772	3779	3789	3680	3772	1065
25°	3477	3413	3516	3212	3477	1601
35°	2994	2609	3052	2429	2994	1868
45°	2305	1865	2380	1758	2305	1770
55°	1471	1311	1578	1245	1471	1325
65°	763	881	840	817	763	765
75°	306	588	344	541	306	329
85°	56	423	75	389	56	67
90°	0	366	4	334	0	3
95°	2	312	0	291	2	2
105°	2	229	0	216	2	2
115°	2	173	0	160	2	2
125°	2	128	2	113	2	2
135°	2	90	2	73	2	2
145°	2	58	2	41	2	1
155°	2	32	2	15	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-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3919.9	3915.6	3911.3	3904.9	3911.3	3928.4	3917.7	3894.2	3889.9	3851.4	3868.6
5°	3911.3	3904.9	3900.6	3894.2	3902.8	3924.2	3913.5	3892.1	3885.7	3849.3	3868.6
7.5°	3889.9	3885.7	3879.2	3879.2	3887.8	3909.2	3900.6	3877.1	3872.8	3836.5	3857.9
10°	3860.0	3857.9	3853.6	3853.6	3862.1	3887.8	3877.1	3855.7	3851.4	3817.2	3840.8
12.5°	3821.5	3823.6	3817.2	3817.2	3830.1	3855.7	3847.2	3823.6	3819.4	3789.4	3813.0
15°	3772.3	3774.5	3770.2	3772.3	3785.2	3815.1	3804.4	3783.0	3778.7	3755.2	3774.5
17.5°	3716.7	3718.9	3718.9	3716.7	3731.7	3761.6	3753.1	3733.8	3727.4	3708.2	3731.7
20°	3652.6	3652.6	3652.6	3652.6	3669.7	3699.6	3688.9	3673.9	3661.1	3646.1	3665.4
22.5°	3573.4	3571.3	3573.4	3579.9	3597.0	3620.5	3614.1	3597.0	3577.7	3569.2	3584.1
25°	3477.2	3483.6	3485.8	3492.2	3513.6	3532.8	3526.4	3509.3	3479.3	3472.9	3477.2
27.5°	3376.7	3381.0	3387.4	3385.3	3415.2	3434.4	3421.6	3406.6	3363.9	3357.5	3353.2
30°	3263.4	3269.8	3274.0	3271.9	3295.4	3316.8	3304.0	3284.7	3227.0	3222.7	3188.5
32.5°	3135.0	3141.5	3145.7	3145.7	3180.0	3188.5	3165.0	3137.2	3075.2	3060.2	3030.3
35°	2993.9	3000.3	3002.5	3002.5	3036.7	3034.5	3004.6	2966.1	2897.7	2878.4	2827.1
37.5°	2842.1	2846.3	2848.5	2861.3	2876.3	2863.5	2825.0	2775.8	2724.5	2671.0	2615.4
40°	2671.0	2677.4	2681.7	2690.2	2705.2	2690.2	2634.6	2574.8	2519.2	2459.3	2403.7
42.5°	2495.6	2514.9	2510.6	2508.5	2517.0	2476.4	2433.6	2365.2	2309.6	2247.6	2192.0
45°	2305.3	2303.2	2313.9	2318.1	2316.0	2281.8	2221.9	2159.9	2104.3	2040.1	1993.1
47.5°	2104.3	2102.1	2110.7	2115.0	2102.1	2065.8	2018.7	1948.2	1901.1	1845.5	1809.2
50°	1892.6	1892.6	1905.4	1892.6	1886.2	1849.8	1811.3	1740.7	1704.4	1655.2	1633.8
52.5°	1680.9	1700.1	1687.3	1683.0	1676.6	1640.2	1610.3	1552.6	1522.6	1501.2	1475.6
55°	1471.3	1492.7	1484.1	1477.7	1475.6	1445.6	1417.8	1375.1	1355.8	1340.8	1325.9
57.5°	1293.8	1291.7	1287.4	1281.0	1283.1	1259.6	1231.8	1208.3	1199.7	1193.3	1197.6
60°	1088.5	1105.6	1099.2	1101.3	1103.5	1099.2	1075.7	1060.7	1062.8	1065.0	1071.4
62.5°	919.6	934.5	945.2	936.7	940.9	947.4	934.5	930.2	938.8	947.4	955.9
65°	763.4	778.4	789.1	787.0	799.8	812.6	810.5	814.8	834.0	844.7	855.4
67.5°	622.3	637.3	652.2	654.4	673.6	692.9	701.4	716.4	737.8	752.8	765.6
70°	500.4	513.2	530.3	541.0	566.7	592.4	607.3	637.3	650.1	671.5	680.0
72.5°	391.3	402.0	425.6	451.2	472.6	504.7	534.6	560.3	579.5	603.1	613.8
75°	305.8	310.1	335.7	365.7	395.6	432.0	464.1	491.9	517.5	541.0	558.1
77.5°	224.5	231.0	254.5	295.1	329.3	367.8	404.2	434.1	461.9	485.4	509.0
80°	156.1	168.9	194.6	235.2	273.7	316.5	350.7	384.9	414.9	438.4	461.9
82.5°	100.5	111.2	147.6	188.2	228.8	271.6	307.9	342.2	374.2	399.9	421.3
85°	55.6	70.6	106.9	149.7	190.3	233.1	271.6	305.8	337.9	361.4	382.8
87.5°	21.4	42.8	77.0	117.6	158.2	198.9	239.5	271.6	303.7	329.3	348.6
90°	0.0	25.7	57.7	98.4	139.0	179.6	218.1	252.3	282.3	305.8	327.2
92.5°	2.1	17.1	44.9	79.1	117.6	156.1	192.5	226.7	256.6	280.1	299.4
95°	2.1	12.8	36.4	68.4	102.6	139.0	173.2	205.3	233.1	256.6	275.9
97.5°	2.1	8.6	29.9	59.9	89.8	126.2	158.2	188.2	213.9	237.4	252.3
100°	2.1	8.6	25.7	51.3	81.3	113.3	143.3	173.2	196.7	216.0	233.1
102.5°	2.1	6.4	21.4	44.9	72.7	100.5	130.4	158.2	179.6	198.9	216.0
105°	2.1	6.4	19.2	38.5	64.2	92.0	117.6	143.3	166.8	183.9	198.9
107.5°	2.1	4.3	17.1	32.1	55.6	83.4	109.1	130.4	151.8	168.9	183.9
110°	2.1	4.3	15.0	29.9	49.2	74.8	98.4	119.8	139.0	156.1	168.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.1	4.3	12.8	27.8	44.9	66.3	89.8	109.1	128.3	143.3	156.1
115°	2.1	4.3	12.8	25.7	40.6	57.7	79.1	100.5	115.5	132.6	143.3
117.5°	2.1	4.3	10.7	21.4	38.5	53.5	72.7	89.8	106.9	121.9	132.6
120°	2.1	4.3	10.7	19.2	34.2	49.2	64.2	81.3	98.4	109.1	119.8
122.5°	2.1	4.3	8.6	19.2	29.9	44.9	57.7	72.7	87.7	100.5	111.2
125°	2.1	4.3	8.6	17.1	27.8	40.6	53.5	64.2	79.1	89.8	100.5
127.5°	2.1	4.3	8.6	15.0	25.7	36.4	49.2	59.9	70.6	81.3	89.8
130°	2.1	4.3	6.4	12.8	23.5	32.1	42.8	55.6	64.2	72.7	81.3
132.5°	2.1	4.3	6.4	12.8	19.2	27.8	38.5	49.2	57.7	66.3	72.7
135°	2.1	4.3	6.4	10.7	17.1	25.7	32.1	42.8	51.3	59.9	66.3
137.5°	2.1	4.3	6.4	10.7	15.0	21.4	27.8	36.4	44.9	51.3	59.9
140°	2.1	4.3	6.4	8.6	12.8	19.2	25.7	29.9	38.5	44.9	51.3
142.5°	2.1	4.3	6.4	8.6	12.8	17.1	21.4	25.7	32.1	38.5	44.9
145°	2.1	4.3	6.4	8.6	10.7	15.0	19.2	23.5	25.7	32.1	36.4
147.5°	2.1	4.3	6.4	8.6	8.6	12.8	17.1	19.2	23.5	25.7	29.9
150°	2.1	4.3	6.4	6.4	8.6	10.7	15.0	17.1	19.2	23.5	25.7
152.5°	2.1	4.3	6.4	6.4	8.6	10.7	12.8	15.0	17.1	19.2	21.4
155°	2.1	4.3	6.4	6.4	6.4	8.6	10.7	12.8	15.0	17.1	19.2
157.5°	4.3	4.3	4.3	6.4	6.4	8.6	8.6	10.7	12.8	12.8	15.0
160°	4.3	4.3	4.3	6.4	6.4	6.4	8.6	8.6	10.7	10.7	12.8
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3864.3	3870.7	3889.9	3889.9	3885.7	3881.4	3881.4	3875.0	3879.2	3887.8	3883.5
5°	3864.3	3870.7	3889.9	3889.9	3885.7	3881.4	3879.2	3872.8	3879.2	3887.8	3883.5
7.5°	3851.4	3860.0	3879.2	3879.2	3875.0	3872.8	3868.6	3864.3	3870.7	3879.2	3875.0
10°	3834.3	3842.9	3862.1	3862.1	3857.9	3857.9	3851.4	3847.2	3855.7	3862.1	3860.0
12.5°	3808.7	3819.4	3836.5	3834.3	3830.1	3832.2	3825.8	3817.2	3825.8	3832.2	3834.3
15°	3772.3	3785.2	3802.3	3798.0	3791.6	3795.8	3785.2	3778.7	3785.2	3798.0	3795.8
17.5°	3725.3	3733.8	3746.7	3746.7	3740.2	3736.0	3731.7	3725.3	3729.6	3738.1	3740.2
20°	3659.0	3669.7	3676.1	3669.7	3667.5	3661.1	3652.6	3646.1	3654.7	3667.5	3669.7
22.5°	3571.3	3573.4	3588.4	3573.4	3562.7	3560.6	3552.1	3539.2	3552.1	3562.7	3564.9
25°	3462.2	3472.9	3466.5	3440.9	3440.9	3423.7	3419.5	3413.1	3415.2	3434.4	3443.0
27.5°	3323.2	3327.5	3310.4	3289.0	3269.8	3259.1	3244.1	3246.2	3246.2	3271.9	3280.5
30°	3171.4	3147.9	3132.9	3098.7	3083.7	3058.1	3053.8	3053.8	3049.5	3062.3	3100.8
32.5°	2989.6	2957.6	2934.0	2901.9	2876.3	2850.6	2837.8	2844.2	2842.1	2874.1	2887.0
35°	2790.7	2771.5	2722.3	2681.7	2666.7	2628.2	2628.2	2609.0	2621.8	2658.2	2673.1
37.5°	2581.2	2551.2	2510.6	2465.7	2455.0	2425.1	2414.4	2403.7	2431.5	2437.9	2452.9
40°	2367.3	2339.5	2301.0	2258.3	2258.3	2221.9	2221.9	2221.9	2224.0	2236.9	2264.7
42.5°	2164.2	2134.2	2100.0	2070.1	2065.8	2038.0	2038.0	2035.9	2040.1	2050.8	2076.5
45°	1967.4	1943.9	1907.5	1892.6	1894.7	1864.8	1871.2	1864.8	1873.3	1884.0	1892.6
47.5°	1785.7	1770.7	1755.7	1734.3	1727.9	1725.8	1715.1	1706.5	1721.5	1721.5	1734.3
50°	1616.7	1608.2	1599.6	1586.8	1588.9	1580.4	1567.5	1567.5	1578.2	1580.4	1588.9
52.5°	1469.2	1458.5	1447.8	1449.9	1452.0	1447.8	1441.4	1434.9	1441.4	1445.6	1456.3
55°	1321.6	1313.0	1323.7	1319.5	1323.7	1319.5	1315.2	1310.9	1321.6	1315.2	1325.9
57.5°	1189.0	1197.6	1201.8	1193.3	1199.7	1195.4	1197.6	1191.1	1199.7	1204.0	1201.8
60°	1067.1	1079.9	1073.5	1075.7	1084.2	1079.9	1071.4	1077.8	1086.4	1088.5	1086.4
62.5°	955.9	970.9	977.3	973.0	975.2	970.9	977.3	968.7	979.4	983.7	977.3
65°	855.4	872.5	876.8	876.8	876.8	872.5	878.9	881.1	885.3	885.3	881.1
67.5°	769.9	784.8	789.1	793.4	789.1	784.8	784.8	787.0	795.5	799.8	795.5
70°	692.9	707.8	710.0	710.0	712.1	716.4	707.8	712.1	718.5	720.7	718.5
72.5°	626.6	641.6	645.8	643.7	645.8	648.0	648.0	643.7	650.1	654.4	654.4
75°	573.1	581.7	586.0	586.0	588.1	590.2	590.2	588.1	592.4	594.5	596.6
77.5°	523.9	530.3	536.8	536.8	538.9	536.8	541.0	541.0	543.2	545.3	547.5
80°	474.7	483.3	487.6	489.7	494.0	496.1	496.1	496.1	498.3	500.4	500.4
82.5°	436.3	442.7	449.1	455.5	455.5	457.6	457.6	457.6	459.8	459.8	461.9
85°	397.8	406.3	412.7	417.0	419.1	421.3	421.3	423.4	423.4	423.4	425.6
87.5°	363.5	374.2	378.5	382.8	384.9	389.2	389.2	389.2	391.3	391.3	391.3
90°	340.0	350.7	355.0	359.3	361.4	363.5	363.5	365.7	365.7	367.8	367.8
92.5°	312.2	322.9	331.5	331.5	333.6	337.9	335.7	335.7	337.9	340.0	340.0
95°	290.8	299.4	305.8	307.9	310.1	310.1	310.1	312.2	310.1	312.2	312.2
97.5°	265.2	273.7	280.1	284.4	286.6	286.6	286.6	288.7	286.6	288.7	288.7
100°	243.8	252.3	258.8	260.9	265.2	265.2	265.2	265.2	265.2	265.2	267.3
102.5°	226.7	235.2	239.5	241.7	243.8	245.9	245.9	245.9	245.9	248.1	248.1
105°	209.6	218.1	222.4	224.5	226.7	228.8	228.8	228.8	231.0	231.0	228.8
107.5°	194.6	201.0	205.3	209.6	211.7	211.7	213.9	213.9	213.9	213.9	213.9
110°	179.6	186.0	192.5	196.7	196.7	198.9	198.9	201.0	201.0	198.9	201.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.7	173.2	177.5	181.8	183.9	186.0	186.0	186.0	186.0	186.0	186.0
115°	151.8	160.4	164.7	168.9	171.1	173.2	173.2	173.2	173.2	173.2	173.2
117.5°	141.1	149.7	154.0	156.1	158.2	160.4	162.5	162.5	162.5	162.5	160.4
120°	130.4	136.9	141.1	145.4	147.6	149.7	149.7	149.7	149.7	149.7	149.7
122.5°	119.8	126.2	130.4	134.7	136.9	139.0	139.0	139.0	139.0	139.0	139.0
125°	109.1	115.5	119.8	124.0	126.2	128.3	128.3	128.3	128.3	128.3	128.3
127.5°	98.4	104.8	111.2	113.3	115.5	117.6	117.6	117.6	119.8	117.6	117.6
130°	87.7	94.1	100.5	102.6	104.8	106.9	109.1	109.1	109.1	109.1	106.9
132.5°	79.1	85.5	89.8	92.0	96.2	96.2	98.4	98.4	98.4	98.4	96.2
135°	72.7	77.0	81.3	83.4	87.7	87.7	87.7	89.8	89.8	87.7	85.5
137.5°	64.2	68.4	72.7	74.8	77.0	79.1	79.1	81.3	79.1	79.1	79.1
140°	59.9	62.0	66.3	68.4	70.6	70.6	70.6	72.7	72.7	70.6	70.6
142.5°	51.3	55.6	59.9	62.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2
145°	42.8	49.2	51.3	55.6	55.6	57.7	57.7	57.7	57.7	57.7	55.6
147.5°	36.4	40.6	47.0	49.2	49.2	51.3	51.3	51.3	51.3	51.3	49.2
150°	27.8	32.1	38.5	42.8	42.8	44.9	44.9	44.9	44.9	42.8	42.8
152.5°	23.5	27.8	29.9	34.2	36.4	36.4	36.4	38.5	36.4	36.4	36.4
155°	21.4	23.5	25.7	27.8	29.9	32.1	32.1	32.1	32.1	29.9	29.9
157.5°	17.1	19.2	21.4	23.5	25.7	27.8	27.8	27.8	27.8	27.8	25.7
160°	12.8	15.0	17.1	17.1	19.2	21.4	23.5	21.4	21.4	21.4	21.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3879.2	3877.1	3883.5	3872.8	3840.8	3849.3	3845.0	3864.3	3868.6	3872.8	3892.1
5°	3879.2	3877.1	3881.4	3872.8	3838.6	3845.0	3840.8	3860.0	3864.3	3866.4	3885.7
7.5°	3870.7	3868.6	3875.0	3864.3	3827.9	3836.5	3830.1	3849.3	3851.4	3853.6	3870.7
10°	3853.6	3851.4	3855.7	3847.2	3810.8	3819.4	3810.8	3830.1	3830.1	3834.3	3847.2
12.5°	3827.9	3823.6	3832.2	3821.5	3780.9	3791.6	3787.3	3800.1	3802.3	3804.4	3817.2
15°	3791.6	3787.3	3793.7	3787.3	3750.9	3753.1	3746.7	3765.9	3768.0	3763.8	3776.6
17.5°	3738.1	3733.8	3746.7	3742.4	3706.0	3714.6	3712.4	3716.7	3723.1	3712.4	3729.6
20°	3671.8	3676.1	3680.4	3682.5	3654.7	3654.7	3652.6	3661.1	3667.5	3659.0	3671.8
22.5°	3573.4	3584.1	3597.0	3601.2	3582.0	3579.9	3592.7	3588.4	3594.8	3590.5	3599.1
25°	3449.4	3470.8	3483.6	3496.5	3485.8	3490.0	3509.3	3513.6	3513.6	3511.4	3520.0
27.5°	3295.4	3323.2	3346.8	3374.6	3363.9	3372.4	3404.5	3408.8	3417.3	3408.8	3425.9
30°	3111.5	3137.2	3182.1	3222.7	3227.0	3239.8	3284.7	3289.0	3312.5	3304.0	3310.4
32.5°	2927.6	2940.4	2991.8	3032.4	3058.1	3090.1	3139.3	3147.9	3180.0	3186.4	3186.4
35°	2696.7	2733.0	2780.1	2837.8	2869.9	2904.1	2970.4	2983.2	3030.3	3045.2	3062.3
37.5°	2502.0	2536.3	2566.2	2626.1	2683.8	2722.3	2775.8	2807.9	2857.0	2884.8	2906.2
40°	2294.6	2322.4	2354.5	2414.4	2463.6	2521.3	2574.8	2613.3	2675.3	2707.3	2735.1
42.5°	2097.9	2119.3	2153.5	2196.2	2247.6	2311.7	2363.0	2408.0	2474.2	2519.2	2551.2
45°	1922.5	1935.3	1965.3	1997.4	2042.3	2108.6	2157.8	2215.5	2269.0	2316.0	2354.5
47.5°	1757.9	1775.0	1789.9	1811.3	1851.9	1892.6	1950.3	2005.9	2059.4	2110.7	2149.2
50°	1606.0	1606.0	1629.5	1644.5	1672.3	1708.7	1753.6	1792.1	1858.4	1894.7	1943.9
52.5°	1458.5	1467.0	1479.8	1488.4	1509.8	1533.3	1569.7	1601.7	1657.3	1691.6	1738.6
55°	1328.0	1336.6	1343.0	1347.3	1360.1	1387.9	1400.7	1426.4	1464.9	1492.7	1533.3
57.5°	1204.0	1208.3	1214.7	1216.8	1218.9	1236.1	1246.7	1253.2	1291.7	1319.5	1353.7
60°	1090.6	1090.6	1097.1	1094.9	1092.8	1101.3	1099.2	1105.6	1129.1	1146.2	1161.2
62.5°	983.7	983.7	985.9	981.6	979.4	979.4	970.9	977.3	983.7	985.9	996.5
65°	885.3	896.0	887.5	889.6	876.8	872.5	868.2	855.4	853.3	844.7	849.0
67.5°	797.7	806.2	797.7	797.7	787.0	778.4	767.7	746.3	739.9	722.8	718.5
70°	727.1	720.7	725.0	718.5	705.7	695.0	680.0	662.9	641.6	620.2	605.2
72.5°	658.7	658.7	654.4	648.0	641.6	620.2	603.1	583.8	558.1	530.3	509.0
75°	592.4	594.5	594.5	588.1	577.4	558.1	538.9	511.1	483.3	451.2	423.4
77.5°	545.3	545.3	545.3	534.6	523.9	506.8	483.3	453.4	423.4	384.9	352.9
80°	500.4	498.3	498.3	485.4	474.7	455.5	432.0	402.0	370.0	329.3	293.0
82.5°	464.1	461.9	457.6	446.9	432.0	412.7	389.2	357.1	322.9	286.6	241.7
85°	425.6	423.4	419.1	408.5	393.5	376.4	350.7	318.6	284.4	243.8	201.0
87.5°	391.3	389.2	382.8	376.4	359.3	340.0	314.4	284.4	248.1	209.6	166.8
90°	367.8	363.5	359.3	350.7	335.7	314.4	288.7	256.6	220.3	181.8	139.0
92.5°	340.0	337.9	331.5	322.9	310.1	288.7	263.0	233.1	196.7	160.4	119.8
95°	312.2	310.1	305.8	297.3	284.4	265.2	241.7	211.7	177.5	141.1	104.8
97.5°	286.6	286.6	280.1	273.7	258.8	243.8	220.3	192.5	160.4	128.3	94.1
100°	265.2	265.2	258.8	250.2	239.5	224.5	201.0	175.4	145.4	115.5	81.3
102.5°	245.9	243.8	239.5	231.0	220.3	205.3	183.9	160.4	132.6	102.6	72.7
105°	228.8	226.7	222.4	213.9	205.3	188.2	171.1	147.6	119.8	92.0	64.2
107.5°	211.7	209.6	207.4	198.9	188.2	173.2	156.1	132.6	109.1	83.4	57.7
110°	196.7	194.6	190.3	181.8	171.1	158.2	141.1	121.9	98.4	74.8	51.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	183.9	181.8	177.5	168.9	160.4	145.4	130.4	109.1	89.8	68.4	44.9
115°	171.1	168.9	164.7	156.1	145.4	132.6	117.6	100.5	79.1	59.9	40.6
117.5°	158.2	156.1	151.8	145.4	134.7	121.9	106.9	89.8	70.6	55.6	36.4
120°	147.6	143.3	139.0	132.6	121.9	111.2	96.2	81.3	64.2	49.2	32.1
122.5°	136.9	132.6	128.3	121.9	111.2	100.5	85.5	72.7	59.9	44.9	29.9
125°	124.0	121.9	117.6	111.2	100.5	89.8	79.1	66.3	53.5	40.6	25.7
127.5°	113.3	111.2	106.9	98.4	89.8	81.3	70.6	59.9	47.0	34.2	23.5
130°	104.8	100.5	96.2	89.8	83.4	74.8	64.2	53.5	42.8	29.9	21.4
132.5°	94.1	89.8	85.5	81.3	74.8	66.3	57.7	47.0	38.5	27.8	19.2
135°	85.5	81.3	77.0	72.7	66.3	59.9	51.3	42.8	34.2	25.7	17.1
137.5°	74.8	72.7	70.6	66.3	59.9	53.5	47.0	36.4	29.9	23.5	15.0
140°	68.4	66.3	64.2	57.7	53.5	47.0	40.6	32.1	25.7	19.2	12.8
142.5°	62.0	59.9	55.6	51.3	47.0	42.8	34.2	29.9	23.5	17.1	12.8
145°	53.5	51.3	49.2	44.9	40.6	34.2	29.9	25.7	21.4	15.0	10.7
147.5°	49.2	47.0	42.8	38.5	34.2	29.9	27.8	23.5	17.1	12.8	8.6
150°	40.6	38.5	36.4	32.1	29.9	27.8	23.5	19.2	15.0	10.7	8.6
152.5°	34.2	32.1	29.9	29.9	25.7	23.5	19.2	17.1	12.8	10.7	6.4
155°	29.9	29.9	27.8	25.7	21.4	19.2	17.1	12.8	10.7	8.6	6.4
157.5°	25.7	23.5	21.4	21.4	19.2	17.1	12.8	10.7	8.6	8.6	6.4
160°	21.4	19.2	19.2	17.1	15.0	12.8	10.7	10.7	8.6	6.4	6.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3894.2	3870.7	3892.1	3919.9	3919.9	3915.6	3911.3	3919.9	3941.3	3932.7	3907.0
5°	3887.8	3864.3	3883.5	3911.3	3911.3	3904.9	3900.6	3907.0	3930.6	3919.9	3896.4
7.5°	3875.0	3853.6	3866.4	3892.1	3892.1	3885.7	3881.4	3889.9	3909.2	3898.5	3872.8
10°	3851.4	3827.9	3842.9	3866.4	3864.3	3860.0	3853.6	3864.3	3881.4	3866.4	3836.5
12.5°	3821.5	3798.0	3810.8	3832.2	3830.1	3821.5	3817.2	3823.6	3838.6	3830.1	3798.0
15°	3780.9	3757.4	3768.0	3789.4	3783.0	3776.6	3768.0	3770.2	3789.4	3774.5	3740.2
17.5°	3731.7	3706.0	3714.6	3733.8	3727.4	3721.0	3710.3	3712.4	3733.8	3712.4	3676.1
20°	3671.8	3644.0	3650.4	3673.9	3663.3	3652.6	3641.9	3641.9	3663.3	3639.7	3599.1
22.5°	3607.7	3579.9	3584.1	3601.2	3592.7	3573.4	3562.7	3569.2	3579.9	3549.9	3507.1
25°	3528.5	3492.2	3498.6	3515.7	3509.3	3483.6	3472.9	3477.2	3472.9	3449.4	3404.5
27.5°	3436.6	3398.1	3402.4	3413.1	3404.5	3381.0	3368.1	3370.3	3361.7	3331.8	3280.5
30°	3321.1	3301.9	3299.7	3306.1	3293.3	3269.8	3254.8	3250.5	3248.4	3205.6	3143.6
32.5°	3203.5	3186.4	3175.7	3184.2	3169.3	3145.7	3120.1	3120.1	3098.7	3058.1	3004.6
35°	3083.7	3055.9	3045.2	3051.6	3034.5	3004.6	2983.2	2972.5	2940.4	2889.1	2831.4
37.5°	2929.8	2910.5	2897.7	2904.1	2884.8	2863.5	2822.8	2812.1	2777.9	2707.3	2634.6
40°	2762.9	2748.0	2735.1	2741.6	2720.2	2688.1	2651.7	2634.6	2596.1	2517.0	2459.3
42.5°	2583.3	2576.9	2561.9	2585.5	2542.7	2510.6	2474.2	2446.4	2408.0	2322.4	2256.1
45°	2393.0	2408.0	2373.7	2380.2	2352.4	2324.6	2286.1	2245.4	2206.9	2125.7	2050.8
47.5°	2192.0	2202.7	2179.1	2183.4	2153.5	2127.8	2093.6	2042.3	1999.5	1928.9	1862.6
50°	1984.5	1980.3	1980.3	1976.0	1952.5	1920.4	1886.2	1839.1	1796.3	1732.2	1676.6
52.5°	1764.3	1772.8	1777.1	1787.8	1757.9	1738.6	1685.1	1644.5	1612.4	1546.1	1499.1
55°	1552.6	1582.5	1573.9	1578.2	1544.0	1529.0	1486.3	1454.2	1407.1	1368.6	1338.7
57.5°	1360.1	1366.5	1370.8	1377.2	1362.2	1332.3	1298.1	1272.4	1236.1	1204.0	1182.6
60°	1174.0	1174.0	1176.2	1186.9	1171.9	1146.2	1120.6	1101.3	1075.7	1056.4	1043.6
62.5°	998.7	1013.7	1015.8	1007.2	988.0	975.2	958.0	947.4	930.2	923.8	919.6
65°	836.2	836.2	836.2	840.4	829.7	821.2	810.5	808.4	814.8	806.2	810.5
67.5°	699.3	692.9	688.6	690.7	686.5	682.2	680.0	686.5	699.3	699.3	710.0
70°	581.7	568.8	560.3	560.3	560.3	562.4	568.8	581.7	603.1	611.6	626.6
72.5°	485.4	457.6	444.8	444.8	446.9	455.5	474.7	498.3	517.5	534.6	553.9
75°	393.5	365.7	346.4	344.3	348.6	361.4	389.2	410.6	442.7	466.2	489.7
77.5°	318.6	284.4	260.9	258.8	265.2	284.4	318.6	346.4	382.8	408.5	434.1
80°	254.5	216.0	196.7	183.9	194.6	218.1	256.6	290.8	325.1	359.3	391.3
82.5°	203.2	166.8	136.9	124.0	136.9	168.9	205.3	245.9	280.1	316.5	348.6
85°	160.4	121.9	87.7	74.8	89.8	124.0	164.7	205.3	243.8	280.1	312.2
87.5°	126.2	87.7	53.5	36.4	55.6	92.0	130.4	171.1	211.7	248.1	280.1
90°	98.4	62.0	29.9	4.3	32.1	66.3	104.8	143.3	183.9	220.3	252.3
92.5°	83.4	47.0	17.1	0.0	19.2	49.2	85.5	124.0	160.4	196.7	228.8
95°	70.6	38.5	12.8	0.0	12.8	38.5	70.6	104.8	141.1	177.5	209.6
97.5°	59.9	29.9	8.6	0.0	8.6	29.9	57.7	92.0	124.0	158.2	188.2
100°	51.3	25.7	6.4	0.0	6.4	23.5	49.2	79.1	111.2	143.3	171.1
102.5°	44.9	21.4	4.3	0.0	4.3	19.2	40.6	68.4	96.2	126.2	154.0
105°	38.5	17.1	4.3	0.0	2.1	15.0	34.2	59.9	85.5	113.3	139.0
107.5°	34.2	15.0	4.3	0.0	2.1	12.8	29.9	51.3	77.0	100.5	124.0
110°	29.9	12.8	4.3	0.0	2.1	8.6	25.7	44.9	66.3	89.8	113.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.7	10.7	2.1	0.0	0.0	6.4	21.4	38.5	57.7	81.3	100.5
115°	23.5	10.7	2.1	0.0	0.0	4.3	17.1	34.2	51.3	72.7	89.8
117.5°	21.4	8.6	2.1	0.0	2.1	4.3	15.0	29.9	44.9	62.0	81.3
120°	19.2	8.6	2.1	0.0	2.1	2.1	10.7	25.7	38.5	55.6	70.6
122.5°	17.1	8.6	2.1	0.0	2.1	2.1	8.6	21.4	34.2	49.2	62.0
125°	15.0	6.4	4.3	2.1	2.1	2.1	6.4	17.1	29.9	40.6	55.6
127.5°	15.0	6.4	4.3	2.1	2.1	2.1	4.3	15.0	23.5	36.4	49.2
130°	12.8	6.4	4.3	2.1	2.1	2.1	2.1	10.7	21.4	29.9	40.6
132.5°	10.7	6.4	4.3	2.1	2.1	2.1	2.1	6.4	15.0	25.7	34.2
135°	10.7	6.4	4.3	2.1	2.1	2.1	2.1	4.3	10.7	19.2	27.8
137.5°	8.6	4.3	4.3	2.1	2.1	2.1	2.1	2.1	8.6	15.0	21.4
140°	8.6	4.3	4.3	2.1	2.1	2.1	2.1	2.1	6.4	10.7	17.1
142.5°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	4.3	8.6	12.8
145°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	8.6
147.5°	6.4	6.4	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	6.4
150°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.3
152.5°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.3
155°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	4.3
157.5°	6.4	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.3
160°	6.4	4.3	4.3	2.1	4.3	2.1	4.3	4.3	4.3	4.3	4.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3898.5	3857.9	3879.2	3872.8	3881.4	3898.5	3896.4	3892.1	3892.1	3885.7	3877.1
5°	3885.7	3847.2	3866.4	3855.7	3866.4	3881.4	3879.2	3872.8	3877.1	3866.4	3855.7
7.5°	3860.0	3825.8	3842.9	3834.3	3842.9	3857.9	3851.4	3849.3	3853.6	3836.5	3830.1
10°	3830.1	3791.6	3810.8	3800.1	3810.8	3821.5	3817.2	3808.7	3817.2	3800.1	3793.7
12.5°	3783.0	3750.9	3763.8	3759.5	3765.9	3776.6	3768.0	3761.6	3765.9	3750.9	3738.1
15°	3731.7	3699.6	3710.3	3703.9	3708.2	3721.0	3706.0	3703.9	3699.6	3684.6	3680.4
17.5°	3665.4	3635.5	3646.1	3635.5	3641.9	3637.6	3635.5	3624.8	3624.8	3607.7	3594.8
20°	3584.1	3558.5	3552.1	3543.5	3552.1	3543.5	3530.7	3522.1	3520.0	3502.9	3492.2
22.5°	3490.0	3460.1	3464.4	3440.9	3443.0	3430.2	3408.8	3400.2	3391.7	3372.4	3357.5
25°	3376.7	3346.8	3325.4	3310.4	3291.2	3289.0	3261.2	3239.8	3237.7	3214.2	3212.0
27.5°	3248.4	3214.2	3197.1	3160.7	3137.2	3117.9	3094.4	3073.0	3062.3	3036.7	3019.6
30°	3100.8	3062.3	3019.6	2993.9	2957.6	2942.6	2901.9	2876.3	2867.7	2839.9	2827.1
32.5°	2934.0	2893.4	2859.2	2810.0	2769.4	2748.0	2707.3	2681.7	2671.0	2641.1	2623.9
35°	2752.3	2707.3	2666.7	2619.7	2587.6	2551.2	2502.0	2476.4	2452.9	2442.2	2429.3
37.5°	2561.9	2512.7	2465.7	2418.6	2390.8	2348.1	2305.3	2288.2	2260.4	2249.7	2236.9
40°	2365.2	2316.0	2271.1	2226.2	2194.1	2155.6	2117.1	2110.7	2080.8	2070.1	2061.5
42.5°	2170.6	2119.3	2067.9	2035.9	2012.3	1973.8	1948.2	1941.8	1916.1	1909.7	1909.7
45°	1995.2	1931.1	1888.3	1860.5	1841.3	1809.2	1787.8	1783.5	1762.1	1757.9	1757.9
47.5°	1807.0	1747.2	1715.1	1698.0	1680.9	1657.3	1644.5	1644.5	1623.1	1618.8	1616.7
50°	1631.7	1576.1	1552.6	1535.4	1533.3	1516.2	1505.5	1501.2	1501.2	1486.3	1488.4
52.5°	1464.9	1437.1	1417.8	1407.1	1394.3	1383.6	1375.1	1375.1	1368.6	1358.0	1362.2
55°	1310.9	1278.8	1281.0	1272.4	1266.0	1259.6	1261.7	1248.9	1246.7	1238.2	1244.6
57.5°	1156.9	1156.9	1152.7	1146.2	1135.5	1139.8	1139.8	1139.8	1129.1	1122.7	1129.1
60°	1026.5	1032.9	1022.2	1028.6	1024.3	1026.5	1022.2	1022.2	1015.8	1013.7	1015.8
62.5°	911.0	921.7	917.4	926.0	921.7	923.8	928.1	919.6	915.3	911.0	915.3
65°	808.4	821.2	819.0	825.5	827.6	829.7	831.9	827.6	823.3	819.0	816.9
67.5°	718.5	731.4	739.9	742.1	744.2	750.6	748.5	744.2	739.9	733.5	731.4
70°	637.3	654.4	665.1	669.4	677.9	673.6	673.6	671.5	667.2	660.8	658.7
72.5°	568.8	588.1	598.8	603.1	611.6	611.6	609.5	607.3	603.1	596.6	594.5
75°	509.0	526.1	541.0	549.6	556.0	556.0	553.9	551.7	547.5	543.2	541.0
77.5°	461.9	476.9	489.7	500.4	504.7	506.8	504.7	500.4	500.4	498.3	496.1
80°	414.9	432.0	444.8	455.5	461.9	461.9	459.8	461.9	457.6	455.5	453.4
82.5°	374.2	393.5	408.5	419.1	423.4	425.6	423.4	425.6	421.3	421.3	421.3
85°	337.9	357.1	374.2	382.8	389.2	391.3	391.3	391.3	389.2	389.2	389.2
87.5°	307.9	327.2	344.3	352.9	359.3	361.4	361.4	363.5	359.3	359.3	359.3
90°	280.1	299.4	316.5	325.1	331.5	335.7	335.7	337.9	335.7	333.6	333.6
92.5°	254.5	275.9	293.0	301.5	307.9	314.4	314.4	316.5	312.2	312.2	312.2
95°	233.1	254.5	269.5	280.1	286.6	290.8	293.0	293.0	290.8	290.8	290.8
97.5°	213.9	233.1	248.1	258.8	265.2	267.3	269.5	271.6	269.5	269.5	269.5
100°	194.6	213.9	228.8	237.4	245.9	248.1	250.2	252.3	252.3	250.2	250.2
102.5°	177.5	196.7	209.6	220.3	226.7	231.0	233.1	233.1	233.1	233.1	233.1
105°	160.4	179.6	192.5	203.2	209.6	213.9	216.0	218.1	218.1	216.0	216.0
107.5°	145.4	162.5	177.5	186.0	194.6	198.9	201.0	201.0	203.2	201.0	201.0
110°	130.4	149.7	162.5	171.1	179.6	183.9	186.0	188.2	188.2	188.2	188.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	119.8	134.7	147.6	156.1	164.7	168.9	171.1	173.2	175.4	173.2	173.2
115°	106.9	121.9	134.7	143.3	149.7	154.0	158.2	160.4	160.4	162.5	160.4
117.5°	96.2	109.1	121.9	130.4	136.9	143.3	145.4	147.6	149.7	147.6	147.6
120°	85.5	98.4	109.1	117.6	124.0	130.4	132.6	134.7	136.9	134.7	134.7
122.5°	77.0	87.7	98.4	106.9	113.3	117.6	121.9	121.9	124.0	124.0	124.0
125°	68.4	79.1	87.7	96.2	102.6	106.9	109.1	111.2	111.2	113.3	113.3
127.5°	59.9	68.4	79.1	85.5	92.0	96.2	98.4	100.5	100.5	102.6	102.6
130°	51.3	59.9	68.4	74.8	81.3	85.5	87.7	89.8	92.0	92.0	92.0
132.5°	44.9	53.5	59.9	66.3	70.6	74.8	79.1	81.3	81.3	81.3	81.3
135°	36.4	44.9	51.3	57.7	62.0	66.3	68.4	72.7	72.7	72.7	72.7
137.5°	29.9	38.5	44.9	49.2	53.5	57.7	59.9	62.0	64.2	64.2	64.2
140°	23.5	29.9	36.4	42.8	47.0	49.2	53.5	53.5	55.6	55.6	55.6
142.5°	17.1	23.5	27.8	34.2	38.5	42.8	44.9	47.0	47.0	47.0	47.0
145°	12.8	17.1	21.4	25.7	32.1	34.2	36.4	38.5	40.6	40.6	40.6
147.5°	8.6	12.8	15.0	19.2	23.5	27.8	29.9	32.1	34.2	34.2	34.2
150°	6.4	8.6	12.8	15.0	17.1	21.4	25.7	25.7	27.8	27.8	25.7
152.5°	4.3	6.4	8.6	10.7	12.8	15.0	19.2	19.2	21.4	21.4	21.4
155°	4.3	4.3	4.3	6.4	8.6	10.7	12.8	15.0	15.0	15.0	15.0
157.5°	4.3	4.3	4.3	4.3	4.3	6.4	8.6	10.7	10.7	10.7	10.7
160°	4.3	4.3	2.1	2.1	4.3	4.3	4.3	4.3	6.4	6.4	6.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3883.5	3887.8	3887.8	3883.5	3881.4	3889.9	3879.2	3838.6	3851.4	3855.7	3868.6
5°	3864.3	3868.6	3868.6	3868.6	3864.3	3872.8	3862.1	3821.5	3836.5	3842.9	3851.4
7.5°	3836.5	3838.6	3842.9	3840.8	3836.5	3849.3	3838.6	3798.0	3808.7	3819.4	3830.1
10°	3800.1	3800.1	3802.3	3806.5	3802.3	3813.0	3802.3	3765.9	3776.6	3783.0	3795.8
12.5°	3750.9	3755.2	3757.4	3755.2	3753.1	3761.6	3757.4	3723.1	3727.4	3740.2	3753.1
15°	3684.6	3684.6	3695.3	3691.1	3691.1	3699.6	3703.9	3665.4	3671.8	3691.1	3703.9
17.5°	3603.4	3605.5	3614.1	3618.3	3616.2	3631.2	3633.3	3603.4	3601.2	3624.8	3637.6
20°	3498.6	3502.9	3513.6	3522.1	3522.1	3539.2	3545.6	3526.4	3528.5	3554.2	3558.5
22.5°	3370.3	3370.3	3389.5	3402.4	3413.1	3423.7	3443.0	3425.9	3425.9	3460.1	3479.3
25°	3212.0	3227.0	3233.4	3259.1	3274.0	3304.0	3321.1	3323.2	3325.4	3357.5	3370.3
27.5°	3036.7	3041.0	3060.2	3090.1	3107.2	3135.0	3167.1	3173.5	3184.2	3227.0	3246.2
30°	2837.8	2850.6	2859.2	2901.9	2925.5	2961.8	3002.5	3017.4	3026.0	3083.7	3107.2
32.5°	2634.6	2638.9	2675.3	2698.8	2726.6	2765.1	2812.1	2839.9	2857.0	2916.9	2951.1
35°	2431.5	2440.0	2470.0	2499.9	2527.7	2566.2	2615.4	2653.9	2683.8	2737.3	2782.2
37.5°	2245.4	2266.8	2273.2	2303.2	2324.6	2363.0	2397.3	2452.9	2482.8	2538.4	2596.1
40°	2078.6	2085.0	2089.3	2119.3	2134.2	2170.6	2219.8	2256.1	2296.8	2337.4	2405.8
42.5°	1914.0	1918.2	1924.7	1941.8	1958.9	1984.5	2020.9	2057.2	2100.0	2159.9	2204.8
45°	1762.1	1766.4	1770.7	1781.4	1796.3	1819.9	1843.4	1869.1	1911.8	1963.1	2010.2
47.5°	1621.0	1629.5	1629.5	1631.7	1642.4	1661.6	1678.7	1710.8	1734.3	1762.1	1815.6
50°	1486.3	1492.7	1494.8	1494.8	1501.2	1514.1	1518.3	1539.7	1561.1	1586.8	1625.3
52.5°	1360.1	1360.1	1358.0	1366.5	1366.5	1375.1	1377.2	1390.0	1405.0	1432.8	1449.9
55°	1240.3	1240.3	1246.7	1242.5	1242.5	1246.7	1244.6	1246.7	1259.6	1276.7	1291.7
57.5°	1124.9	1122.7	1129.1	1124.9	1122.7	1127.0	1131.3	1122.7	1124.9	1142.0	1142.0
60°	1009.4	1011.5	1017.9	1013.7	1013.7	1013.7	1009.4	1005.1	1000.8	1011.5	1015.8
62.5°	917.4	911.0	917.4	911.0	915.3	913.1	908.9	900.3	902.4	898.2	893.9
65°	821.2	821.2	823.3	816.9	821.2	821.2	814.8	812.6	799.8	795.5	784.8
67.5°	737.8	737.8	739.9	735.6	735.6	737.8	731.4	725.0	712.1	705.7	690.7
70°	665.1	665.1	665.1	662.9	662.9	662.9	658.7	650.1	637.3	626.6	607.3
72.5°	598.8	600.9	598.8	598.8	605.2	598.8	592.4	583.8	573.1	551.7	534.6
75°	545.3	547.5	545.3	545.3	545.3	543.2	541.0	528.2	515.4	498.3	472.6
77.5°	498.3	498.3	500.4	498.3	498.3	496.1	489.7	479.0	464.1	449.1	419.1
80°	453.4	455.5	457.6	459.8	455.5	453.4	446.9	438.4	419.1	402.0	372.1
82.5°	421.3	419.1	421.3	423.4	419.1	417.0	410.6	399.9	384.9	361.4	331.5
85°	389.2	387.1	387.1	389.2	387.1	382.8	376.4	365.7	350.7	327.2	297.3
87.5°	357.1	359.3	361.4	359.3	357.1	352.9	346.4	335.7	318.6	299.4	267.3
90°	333.6	333.6	333.6	333.6	331.5	327.2	320.8	307.9	293.0	269.5	241.7
92.5°	312.2	312.2	312.2	312.2	310.1	303.7	297.3	286.6	269.5	245.9	220.3
95°	290.8	293.0	290.8	290.8	286.6	284.4	273.7	263.0	248.1	224.5	196.7
97.5°	267.3	269.5	267.3	267.3	265.2	260.9	254.5	241.7	226.7	205.3	179.6
100°	250.2	250.2	248.1	248.1	245.9	241.7	233.1	222.4	207.4	186.0	160.4
102.5°	231.0	233.1	231.0	231.0	226.7	222.4	216.0	205.3	190.3	168.9	145.4
105°	216.0	216.0	213.9	213.9	209.6	205.3	198.9	186.0	173.2	154.0	130.4
107.5°	201.0	201.0	198.9	198.9	194.6	190.3	181.8	171.1	158.2	139.0	117.6
110°	186.0	186.0	186.0	183.9	179.6	173.2	166.8	156.1	143.3	126.2	104.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	175.4	173.2	171.1	168.9	164.7	160.4	151.8	141.1	128.3	113.3	94.1
115°	160.4	160.4	158.2	156.1	151.8	145.4	139.0	130.4	117.6	100.5	83.4
117.5°	147.6	147.6	145.4	143.3	139.0	132.6	126.2	117.6	104.8	89.8	74.8
120°	134.7	134.7	132.6	130.4	126.2	119.8	115.5	104.8	94.1	79.1	66.3
122.5°	124.0	121.9	121.9	117.6	115.5	109.1	102.6	94.1	83.4	70.6	57.7
125°	111.2	111.2	109.1	106.9	104.8	98.4	92.0	83.4	72.7	62.0	51.3
127.5°	100.5	100.5	98.4	96.2	94.1	87.7	81.3	74.8	64.2	53.5	42.8
130°	89.8	89.8	87.7	85.5	83.4	77.0	72.7	64.2	55.6	47.0	36.4
132.5°	81.3	81.3	79.1	77.0	72.7	68.4	64.2	55.6	49.2	40.6	32.1
135°	72.7	70.6	70.6	68.4	64.2	59.9	55.6	49.2	40.6	34.2	25.7
137.5°	64.2	62.0	59.9	57.7	55.6	51.3	47.0	42.8	36.4	27.8	21.4
140°	55.6	53.5	53.5	51.3	47.0	44.9	40.6	34.2	29.9	23.5	17.1
142.5°	47.0	47.0	44.9	42.8	40.6	38.5	34.2	29.9	23.5	19.2	12.8
145°	40.6	38.5	38.5	36.4	34.2	29.9	27.8	23.5	19.2	15.0	10.7
147.5°	32.1	32.1	32.1	29.9	27.8	25.7	23.5	19.2	15.0	10.7	6.4
150°	25.7	25.7	25.7	23.5	21.4	19.2	17.1	15.0	10.7	6.4	4.3
152.5°	21.4	21.4	19.2	19.2	17.1	15.0	12.8	10.7	6.4	4.3	4.3
155°	15.0	15.0	15.0	12.8	12.8	10.7	8.6	6.4	4.3	4.3	4.3
157.5°	10.7	10.7	10.7	8.6	8.6	6.4	6.4	4.3	4.3	4.3	4.3
160°	6.4	6.4	6.4	6.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8	3887.8
2.5°	3862.1	3860.0	3877.1	3877.1	3857.9	3887.8	3919.9
5°	3849.3	3847.2	3864.3	3864.3	3847.2	3877.1	3911.3
7.5°	3823.6	3825.8	3842.9	3847.2	3825.8	3853.6	3889.9
10°	3795.8	3793.7	3813.0	3817.2	3800.1	3825.8	3860.0
12.5°	3750.9	3750.9	3770.2	3776.6	3759.5	3789.4	3821.5
15°	3703.9	3703.9	3716.7	3727.4	3712.4	3740.2	3772.3
17.5°	3644.0	3641.9	3654.7	3667.5	3652.6	3682.5	3716.7
20°	3567.0	3567.0	3582.0	3597.0	3586.3	3614.1	3652.6
22.5°	3485.8	3477.2	3502.9	3513.6	3507.1	3534.9	3573.4
25°	3383.1	3381.0	3406.6	3421.6	3413.1	3443.0	3477.2
27.5°	3271.9	3269.8	3295.4	3314.7	3310.4	3338.2	3376.7
30°	3137.2	3147.9	3171.4	3203.5	3192.8	3222.7	3263.4
32.5°	2996.0	3006.7	3034.5	3068.8	3070.9	3094.4	3135.0
35°	2827.1	2854.9	2874.1	2919.1	2927.6	2951.1	2993.9
37.5°	2649.6	2681.7	2722.3	2756.5	2773.6	2792.9	2842.1
40°	2450.7	2497.8	2542.7	2583.3	2604.7	2623.9	2671.0
42.5°	2271.1	2307.4	2350.2	2390.8	2429.3	2446.4	2495.6
45°	2067.9	2110.7	2149.2	2198.4	2236.9	2256.1	2305.3
47.5°	1869.1	1911.8	1963.1	1997.4	2038.0	2057.2	2104.3
50°	1678.7	1717.2	1760.0	1800.6	1834.8	1851.9	1892.6
52.5°	1490.5	1531.2	1571.8	1597.5	1633.8	1646.6	1680.9
55°	1323.7	1351.5	1387.9	1402.9	1439.2	1447.8	1471.3
57.5°	1163.3	1182.6	1195.4	1221.1	1246.7	1266.0	1293.8
60°	1017.9	1026.5	1035.0	1050.0	1071.4	1077.8	1088.5
62.5°	887.5	885.3	902.4	906.7	908.9	930.2	919.6
65°	772.0	774.1	759.2	752.8	761.3	767.7	763.4
67.5°	675.8	662.9	650.1	635.1	622.3	628.7	622.3
70°	581.7	571.0	549.6	528.2	519.7	506.8	500.4
72.5°	506.8	481.2	459.8	432.0	417.0	402.0	391.3
75°	449.1	412.7	382.8	352.9	331.5	310.1	305.8
77.5°	389.2	355.0	320.8	288.7	256.6	233.1	224.5
80°	342.2	310.1	269.5	231.0	196.7	166.8	156.1
82.5°	299.4	265.2	224.5	183.9	145.4	113.3	100.5
85°	263.0	226.7	186.0	145.4	106.9	72.7	55.6
87.5°	235.2	194.6	154.0	115.5	74.8	40.6	21.4
90°	209.6	171.1	132.6	92.0	53.5	21.4	0.0
92.5°	186.0	149.7	111.2	74.8	40.6	12.8	2.1
95°	164.7	132.6	94.1	59.9	29.9	8.6	2.1
97.5°	147.6	115.5	81.3	49.2	23.5	6.4	2.1
100°	132.6	100.5	70.6	40.6	19.2	4.3	2.1
102.5°	117.6	89.8	59.9	34.2	15.0	2.1	2.1
105°	104.8	79.1	51.3	29.9	12.8	2.1	2.1
107.5°	94.1	70.6	44.9	25.7	8.6	2.1	2.1
110°	83.4	59.9	38.5	21.4	6.4	2.1	2.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	74.8	53.5	34.2	17.1	4.3	2.1	2.1
115°	66.3	47.0	29.9	15.0	4.3	2.1	2.1
117.5°	57.7	40.6	25.7	10.7	2.1	2.1	2.1
120°	51.3	36.4	21.4	8.6	2.1	2.1	2.1
122.5°	44.9	29.9	17.1	6.4	2.1	2.1	2.1
125°	38.5	25.7	15.0	4.3	2.1	2.1	2.1
127.5°	32.1	21.4	10.7	4.3	2.1	2.1	2.1
130°	27.8	17.1	8.6	2.1	2.1	2.1	2.1
132.5°	23.5	12.8	6.4	2.1	2.1	2.1	2.1
135°	19.2	10.7	4.3	2.1	2.1	2.1	2.1
137.5°	15.0	8.6	4.3	2.1	2.1	2.1	2.1
140°	10.7	6.4	2.1	2.1	2.1	2.1	2.1
142.5°	8.6	4.3	2.1	2.1	2.1	2.1	2.1
145°	6.4	4.3	2.1	2.1	2.1	2.1	2.1
147.5°	4.3	4.3	4.3	4.3	2.1	2.1	2.1
150°	4.3	4.3	2.1	2.1	4.3	2.1	2.1
152.5°	4.3	2.1	2.1	2.1	4.3	2.1	2.1
155°	4.3	4.3	4.3	4.3	4.3	4.3	2.1
157.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
160°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)