

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-LD5-91SL-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-LD5-91SL-LN-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

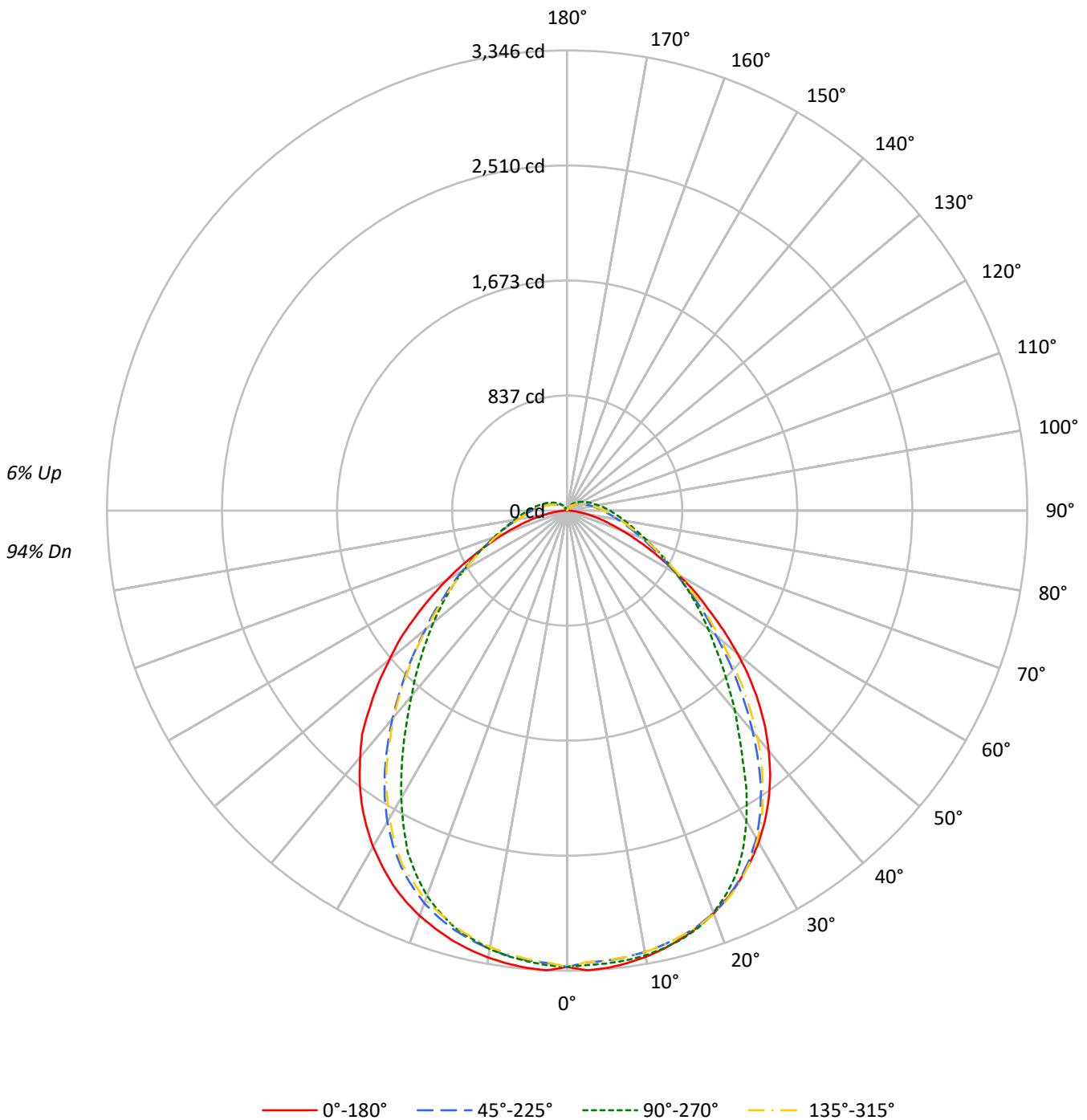
Lumens per Lamp: N/A
Luminaire Lumens: 8398.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
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-LD5-91SL-LN-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-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	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°	13408	13408	13408	13408
5°	13522	12981	13522	12924
10°	13480	12636	13503	12461
15°	13412	12259	13473	11939
20°	13329	11773	13408	11276
25°	13136	11053	13281	10402
30°	12879	9995	13048	9253
35°	12468	8698	12709	8099
40°	11869	7607	12183	7058
45°	11071	6613	11430	6234
50°	9969	5811	10408	5517
55°	8653	5131	9282	4872
60°	7310	4505	7970	4246
65°	6028	3983	6636	3693
70°	4838	3535	5417	3270
75°	3850	3264	4335	3003
80°	2847	3149	3356	2878
85°	1868	3167	2513	2911



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	3.7
10°-20°	902.1	10.7
20°-30°	1337.0	15.9
30°-40°	1485.3	17.7
40°-50°	1346.4	16.0
50°-60°	1043.3	12.4
60°-70°	708.5	8.4
70°-80°	450.8	5.4
80°-90°	288.2	3.4
90°-100°	194.3	2.3
100°-110°	133.1	1.6
110°-120°	88.8	1.1
120°-130°	55.2	0.7
130°-140°	30.5	0.4
140°-150°	14.3	0.2
150°-160°	5.3	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2553.7	30.4
0°-40°	4039.0	48.1
0°-60°	6428.8	76.6
0°-90°	7876.2	93.8
90°-120°	416.2	5.0
90°-150°	516.3	6.1
90°-180°	522.0	6.2
0°-180°	8398.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3318	3318	3318	3318	3318	
5°	3338	3306	3338	3291	3338	317
15°	3220	3225	3234	3141	3220	909
25°	2968	2913	3001	2742	2968	1367
35°	2555	2227	2605	2074	2555	1594
45°	1968	1592	2032	1500	1968	1511
55°	1256	1119	1347	1062	1256	1131
65°	652	752	717	697	652	653
75°	261	502	294	462	261	281
85°	48	361	64	332	48	57
90°	0	312	4	285	0	3
95°	2	266	0	248	2	1
105°	2	195	0	184	2	2
115°	2	148	0	137	2	2
125°	2	110	2	97	2	2
135°	2	77	2	62	2	1
145°	2	49	2	35	2	1
155°	2	27	2	13	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-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3345.8	3342.1	3338.5	3333.0	3338.5	3353.1	3344.0	3323.9	3320.2	3287.4	3302.0
5°	3338.5	3333.0	3329.4	3323.9	3331.2	3349.4	3340.3	3322.1	3316.6	3285.5	3302.0
7.5°	3320.2	3316.6	3311.1	3311.1	3318.4	3336.7	3329.4	3309.3	3305.6	3274.6	3292.8
10°	3294.7	3292.8	3289.2	3289.2	3296.5	3318.4	3309.3	3291.0	3287.4	3258.2	3278.2
12.5°	3261.8	3263.6	3258.2	3258.2	3269.1	3291.0	3283.7	3263.6	3260.0	3234.4	3254.5
15°	3219.8	3221.7	3218.0	3219.8	3230.8	3256.3	3247.2	3229.0	3225.3	3205.2	3221.7
17.5°	3172.4	3174.2	3174.2	3172.4	3185.2	3210.7	3203.4	3187.0	3181.5	3165.1	3185.2
20°	3117.6	3117.6	3117.6	3117.6	3132.2	3157.8	3148.6	3135.9	3124.9	3112.1	3128.6
22.5°	3050.1	3048.3	3050.1	3055.6	3070.2	3090.2	3084.8	3070.2	3053.7	3046.4	3059.2
25°	2967.9	2973.4	2975.2	2980.7	2999.0	3015.4	3009.9	2995.3	2969.8	2964.3	2967.9
27.5°	2882.2	2885.8	2891.3	2889.5	2915.0	2931.4	2920.5	2907.7	2871.2	2865.7	2862.1
30°	2785.4	2790.9	2794.5	2792.7	2812.8	2831.0	2820.1	2803.7	2754.4	2750.7	2721.5
32.5°	2675.9	2681.4	2685.0	2685.0	2714.2	2721.5	2701.4	2677.7	2624.8	2612.0	2586.5
35°	2555.4	2560.9	2562.7	2562.7	2591.9	2590.1	2564.6	2531.7	2473.3	2456.9	2413.1
37.5°	2425.8	2429.5	2431.3	2442.3	2455.0	2444.1	2411.2	2369.2	2325.4	2279.8	2232.3
40°	2279.8	2285.3	2288.9	2296.2	2309.0	2296.2	2248.8	2197.7	2150.2	2099.1	2051.6
42.5°	2130.1	2146.6	2142.9	2141.1	2148.4	2113.7	2077.2	2018.8	1971.3	1918.4	1870.9
45°	1967.7	1965.9	1975.0	1978.6	1976.8	1947.6	1896.5	1843.6	1796.1	1741.3	1701.2
47.5°	1796.1	1794.3	1801.6	1805.2	1794.3	1763.2	1723.1	1662.9	1622.7	1575.2	1544.2
50°	1615.4	1615.4	1626.3	1615.4	1609.9	1578.9	1546.0	1485.8	1454.8	1412.8	1394.5
52.5°	1434.7	1451.1	1440.2	1436.5	1431.0	1400.0	1374.5	1325.2	1299.6	1281.4	1259.5
55°	1255.8	1274.1	1266.8	1261.3	1259.5	1233.9	1210.2	1173.7	1157.2	1144.5	1131.7
57.5°	1104.3	1102.5	1098.8	1093.4	1095.2	1075.1	1051.4	1031.3	1024.0	1018.5	1022.2
60°	929.1	943.7	938.2	940.0	941.9	938.2	918.1	905.4	907.2	909.0	914.5
62.5°	784.9	797.7	806.8	799.5	803.1	808.6	797.7	794.0	801.3	808.6	815.9
65°	651.6	664.4	673.5	671.7	682.7	693.6	691.8	695.4	711.9	721.0	730.1
67.5°	531.2	543.9	556.7	558.5	575.0	591.4	598.7	611.5	629.7	642.5	653.5
70°	427.1	438.1	452.7	461.8	483.7	505.6	518.4	543.9	554.9	573.1	580.4
72.5°	334.0	343.2	363.2	385.1	403.4	430.8	456.3	478.2	494.7	514.7	523.9
75°	261.0	264.7	286.6	312.1	337.7	368.7	396.1	419.8	441.7	461.8	476.4
77.5°	191.7	197.1	217.2	251.9	281.1	314.0	345.0	370.5	394.3	414.3	434.4
80°	133.2	144.2	166.1	200.8	233.6	270.1	299.3	328.6	354.1	374.2	394.3
82.5°	85.8	94.9	125.9	160.6	195.3	231.8	262.8	292.0	319.4	341.3	359.6
85°	47.5	60.2	91.3	127.8	162.5	199.0	231.8	261.0	288.4	308.5	326.7
87.5°	18.3	36.5	65.7	100.4	135.1	169.8	204.4	231.8	259.2	281.1	297.5
90°	0.0	21.9	49.3	84.0	118.6	153.3	186.2	215.4	240.9	261.0	279.3
92.5°	1.8	14.6	38.3	67.5	100.4	133.2	164.3	193.5	219.0	239.1	255.5
95°	1.8	11.0	31.0	58.4	87.6	118.6	147.8	175.2	199.0	219.0	235.5
97.5°	1.8	7.3	25.6	51.1	76.7	107.7	135.1	160.6	182.5	202.6	215.4
100°	1.8	7.3	21.9	43.8	69.4	96.7	122.3	147.8	167.9	184.4	199.0
102.5°	1.8	5.5	18.3	38.3	62.1	85.8	111.3	135.1	153.3	169.8	184.4
105°	1.8	5.5	16.4	32.9	54.8	78.5	100.4	122.3	142.4	157.0	169.8
107.5°	1.8	3.7	14.6	27.4	47.5	71.2	93.1	111.3	129.6	144.2	157.0
110°	1.8	3.7	12.8	25.6	42.0	63.9	84.0	102.2	118.6	133.2	144.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	3.7	11.0	23.7	38.3	56.6	76.7	93.1	109.5	122.3	133.2
115°	1.8	3.7	11.0	21.9	34.7	49.3	67.5	85.8	98.6	113.2	122.3
117.5°	1.8	3.7	9.1	18.3	32.9	45.6	62.1	76.7	91.3	104.0	113.2
120°	1.8	3.7	9.1	16.4	29.2	42.0	54.8	69.4	84.0	93.1	102.2
122.5°	1.8	3.7	7.3	16.4	25.6	38.3	49.3	62.1	74.8	85.8	94.9
125°	1.8	3.7	7.3	14.6	23.7	34.7	45.6	54.8	67.5	76.7	85.8
127.5°	1.8	3.7	7.3	12.8	21.9	31.0	42.0	51.1	60.2	69.4	76.7
130°	1.8	3.7	5.5	11.0	20.1	27.4	36.5	47.5	54.8	62.1	69.4
132.5°	1.8	3.7	5.5	11.0	16.4	23.7	32.9	42.0	49.3	56.6	62.1
135°	1.8	3.7	5.5	9.1	14.6	21.9	27.4	36.5	43.8	51.1	56.6
137.5°	1.8	3.7	5.5	9.1	12.8	18.3	23.7	31.0	38.3	43.8	51.1
140°	1.8	3.7	5.5	7.3	11.0	16.4	21.9	25.6	32.9	38.3	43.8
142.5°	1.8	3.7	5.5	7.3	11.0	14.6	18.3	21.9	27.4	32.9	38.3
145°	1.8	3.7	5.5	7.3	9.1	12.8	16.4	20.1	21.9	27.4	31.0
147.5°	1.8	3.7	5.5	7.3	7.3	11.0	14.6	16.4	20.1	21.9	25.6
150°	1.8	3.7	5.5	5.5	7.3	9.1	12.8	14.6	16.4	20.1	21.9
152.5°	1.8	3.7	5.5	5.5	7.3	9.1	11.0	12.8	14.6	16.4	18.3
155°	1.8	3.7	5.5	5.5	5.5	7.3	9.1	11.0	12.8	14.6	16.4
157.5°	3.7	3.7	3.7	5.5	5.5	7.3	7.3	9.1	11.0	11.0	12.8
160°	3.7	3.7	3.7	5.5	5.5	5.5	7.3	7.3	9.1	9.1	11.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3298.3	3303.8	3320.2	3320.2	3316.6	3312.9	3312.9	3307.4	3311.1	3318.4	3314.8
5°	3298.3	3303.8	3320.2	3320.2	3316.6	3312.9	3311.1	3305.6	3311.1	3318.4	3314.8
7.5°	3287.4	3294.7	3311.1	3311.1	3307.4	3305.6	3302.0	3298.3	3303.8	3311.1	3307.4
10°	3272.8	3280.1	3296.5	3296.5	3292.8	3292.8	3287.4	3283.7	3291.0	3296.5	3294.7
12.5°	3250.9	3260.0	3274.6	3272.8	3269.1	3270.9	3265.5	3258.2	3265.5	3270.9	3272.8
15°	3219.8	3230.8	3245.4	3241.7	3236.3	3239.9	3230.8	3225.3	3230.8	3241.7	3239.9
17.5°	3179.7	3187.0	3197.9	3197.9	3192.5	3188.8	3185.2	3179.7	3183.3	3190.6	3192.5
20°	3123.1	3132.2	3137.7	3132.2	3130.4	3124.9	3117.6	3112.1	3119.4	3130.4	3132.2
22.5°	3048.3	3050.1	3062.9	3050.1	3041.0	3039.1	3031.8	3020.9	3031.8	3041.0	3042.8
25°	2955.2	2964.3	2958.8	2936.9	2936.9	2922.3	2918.7	2913.2	2915.0	2931.4	2938.7
27.5°	2836.5	2840.2	2825.6	2807.3	2790.9	2781.8	2769.0	2770.8	2770.8	2792.7	2800.0
30°	2706.9	2686.8	2674.1	2644.9	2632.1	2610.2	2606.5	2606.5	2602.9	2613.8	2646.7
32.5°	2551.8	2524.4	2504.3	2476.9	2455.0	2433.1	2422.2	2427.7	2425.8	2453.2	2464.2
35°	2382.0	2365.6	2323.6	2288.9	2276.2	2243.3	2243.3	2226.9	2237.8	2268.9	2281.6
37.5°	2203.1	2177.6	2142.9	2104.6	2095.4	2069.9	2060.8	2051.6	2075.4	2080.8	2093.6
40°	2020.6	1996.9	1964.0	1927.5	1927.5	1896.5	1896.5	1896.5	1898.3	1909.3	1933.0
42.5°	1847.2	1821.7	1792.4	1766.9	1763.2	1739.5	1739.5	1737.7	1741.3	1750.5	1772.4
45°	1679.3	1659.2	1628.2	1615.4	1617.2	1591.7	1597.1	1591.7	1599.0	1608.1	1615.4
47.5°	1524.1	1511.4	1498.6	1480.3	1474.8	1473.0	1463.9	1456.6	1469.4	1469.4	1480.3
50°	1379.9	1372.6	1365.3	1354.4	1356.2	1348.9	1337.9	1337.9	1347.1	1348.9	1356.2
52.5°	1254.0	1244.9	1235.7	1237.6	1239.4	1235.7	1230.3	1224.8	1230.3	1233.9	1243.0
55°	1128.0	1120.7	1129.9	1126.2	1129.9	1126.2	1122.6	1118.9	1128.0	1122.6	1131.7
57.5°	1014.9	1022.2	1025.8	1018.5	1024.0	1020.3	1022.2	1016.7	1024.0	1027.6	1025.8
60°	910.8	921.8	916.3	918.1	925.4	921.8	914.5	920.0	927.3	929.1	927.3
62.5°	815.9	828.7	834.2	830.5	832.3	828.7	834.2	826.9	836.0	839.6	834.2
65°	730.1	744.7	748.4	748.4	748.4	744.7	750.2	752.0	755.7	755.7	752.0
67.5°	657.1	669.9	673.5	677.2	673.5	669.9	669.9	671.7	679.0	682.7	679.0
70°	591.4	604.2	606.0	606.0	607.8	611.5	604.2	607.8	613.3	615.1	613.3
72.5°	534.8	547.6	551.2	549.4	551.2	553.1	553.1	549.4	554.9	558.5	558.5
75°	489.2	496.5	500.1	500.1	502.0	503.8	503.8	502.0	505.6	507.4	509.3
77.5°	447.2	452.7	458.2	458.2	460.0	458.2	461.8	461.8	463.6	465.5	467.3
80°	405.2	412.5	416.2	418.0	421.6	423.5	423.5	423.5	425.3	427.1	427.1
82.5°	372.4	377.8	383.3	388.8	388.8	390.6	390.6	390.6	392.4	392.4	394.3
85°	339.5	346.8	352.3	355.9	357.8	359.6	359.6	361.4	361.4	361.4	363.2
87.5°	310.3	319.4	323.1	326.7	328.6	332.2	332.2	332.2	334.0	334.0	334.0
90°	290.2	299.3	303.0	306.7	308.5	310.3	310.3	312.1	312.1	314.0	314.0
92.5°	266.5	275.6	282.9	282.9	284.7	288.4	286.6	286.6	288.4	290.2	290.2
95°	248.2	255.5	261.0	262.8	264.7	264.7	264.7	266.5	264.7	266.5	266.5
97.5°	226.3	233.6	239.1	242.8	244.6	244.6	244.6	246.4	244.6	246.4	246.4
100°	208.1	215.4	220.9	222.7	226.3	226.3	226.3	226.3	226.3	226.3	228.2
102.5°	193.5	200.8	204.4	206.3	208.1	209.9	209.9	209.9	209.9	211.7	211.7
105°	178.9	186.2	189.8	191.7	193.5	195.3	195.3	195.3	197.1	197.1	195.3
107.5°	166.1	171.6	175.2	178.9	180.7	180.7	182.5	182.5	182.5	182.5	182.5
110°	153.3	158.8	164.3	167.9	167.9	169.8	169.8	171.6	171.6	169.8	171.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	140.5	147.8	151.5	155.2	157.0	158.8	158.8	158.8	158.8	158.8	158.8
115°	129.6	136.9	140.5	144.2	146.0	147.8	147.8	147.8	147.8	147.8	147.8
117.5°	120.5	127.8	131.4	133.2	135.1	136.9	138.7	138.7	138.7	138.7	136.9
120°	111.3	116.8	120.5	124.1	125.9	127.8	127.8	127.8	127.8	127.8	127.8
122.5°	102.2	107.7	111.3	115.0	116.8	118.6	118.6	118.6	118.6	118.6	118.6
125°	93.1	98.6	102.2	105.9	107.7	109.5	109.5	109.5	109.5	109.5	109.5
127.5°	84.0	89.4	94.9	96.7	98.6	100.4	100.4	100.4	102.2	100.4	100.4
130°	74.8	80.3	85.8	87.6	89.4	91.3	93.1	93.1	93.1	93.1	91.3
132.5°	67.5	73.0	76.7	78.5	82.1	82.1	84.0	84.0	84.0	84.0	82.1
135°	62.1	65.7	69.4	71.2	74.8	74.8	74.8	76.7	76.7	74.8	73.0
137.5°	54.8	58.4	62.1	63.9	65.7	67.5	67.5	69.4	67.5	67.5	67.5
140°	51.1	52.9	56.6	58.4	60.2	60.2	60.2	62.1	62.1	60.2	60.2
142.5°	43.8	47.5	51.1	52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8
145°	36.5	42.0	43.8	47.5	47.5	49.3	49.3	49.3	49.3	49.3	47.5
147.5°	31.0	34.7	40.2	42.0	42.0	43.8	43.8	43.8	43.8	43.8	42.0
150°	23.7	27.4	32.9	36.5	36.5	38.3	38.3	38.3	38.3	36.5	36.5
152.5°	20.1	23.7	25.6	29.2	31.0	31.0	31.0	32.9	31.0	31.0	31.0
155°	18.3	20.1	21.9	23.7	25.6	27.4	27.4	27.4	27.4	25.6	25.6
157.5°	14.6	16.4	18.3	20.1	21.9	23.7	23.7	23.7	23.7	23.7	21.9
160°	11.0	12.8	14.6	14.6	16.4	18.3	20.1	18.3	18.3	18.3	18.3
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-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3311.1	3309.3	3314.8	3305.6	3278.2	3285.5	3281.9	3298.3	3302.0	3305.6	3322.1
5°	3311.1	3309.3	3312.9	3305.6	3276.4	3281.9	3278.2	3294.7	3298.3	3300.1	3316.6
7.5°	3303.8	3302.0	3307.4	3298.3	3267.3	3274.6	3269.1	3285.5	3287.4	3289.2	3303.8
10°	3289.2	3287.4	3291.0	3283.7	3252.7	3260.0	3252.7	3269.1	3269.1	3272.8	3283.7
12.5°	3267.3	3263.6	3270.9	3261.8	3227.1	3236.3	3232.6	3243.6	3245.4	3247.2	3258.2
15°	3236.3	3232.6	3238.1	3232.6	3201.6	3203.4	3197.9	3214.4	3216.2	3212.5	3223.5
17.5°	3190.6	3187.0	3197.9	3194.3	3163.3	3170.6	3168.7	3172.4	3177.9	3168.7	3183.3
20°	3134.0	3137.7	3141.3	3143.2	3119.4	3119.4	3117.6	3124.9	3130.4	3123.1	3134.0
22.5°	3050.1	3059.2	3070.2	3073.8	3057.4	3055.6	3066.5	3062.9	3068.3	3064.7	3072.0
25°	2944.2	2962.5	2973.4	2984.4	2975.2	2978.9	2995.3	2999.0	2999.0	2997.1	3004.4
27.5°	2812.8	2836.5	2856.6	2880.3	2871.2	2878.5	2905.9	2909.5	2916.8	2909.5	2924.1
30°	2655.8	2677.7	2716.1	2750.7	2754.4	2765.3	2803.7	2807.3	2827.4	2820.1	2825.6
32.5°	2498.8	2509.8	2553.6	2588.3	2610.2	2637.6	2679.5	2686.8	2714.2	2719.7	2719.7
35°	2301.7	2332.7	2372.9	2422.2	2449.6	2478.8	2535.3	2546.3	2586.5	2599.2	2613.8
37.5°	2135.6	2164.8	2190.4	2241.5	2290.8	2323.6	2369.2	2396.6	2438.6	2462.3	2480.6
40°	1958.6	1982.3	2009.7	2060.8	2102.7	2152.0	2197.7	2230.5	2283.5	2310.8	2334.6
42.5°	1790.6	1808.9	1838.1	1874.6	1918.4	1973.2	2017.0	2055.3	2111.9	2150.2	2177.6
45°	1640.9	1651.9	1677.5	1704.8	1743.2	1799.7	1841.7	1891.0	1936.6	1976.8	2009.7
47.5°	1500.4	1515.0	1527.8	1546.0	1580.7	1615.4	1664.7	1712.1	1757.8	1801.6	1834.4
50°	1370.8	1370.8	1390.9	1403.7	1427.4	1458.4	1496.7	1529.6	1586.2	1617.2	1659.2
52.5°	1244.9	1252.2	1263.1	1270.4	1288.7	1308.7	1339.8	1367.2	1414.6	1443.8	1484.0
55°	1133.5	1140.8	1146.3	1149.9	1160.9	1184.6	1195.6	1217.5	1250.3	1274.1	1308.7
57.5°	1027.6	1031.3	1036.8	1038.6	1040.4	1055.0	1064.2	1069.6	1102.5	1126.2	1155.4
60°	930.9	930.9	936.4	934.6	932.7	940.0	938.2	943.7	963.8	978.4	991.1
62.5°	839.6	839.6	841.5	837.8	836.0	836.0	828.7	834.2	839.6	841.5	850.6
65°	755.7	764.8	757.5	759.3	748.4	744.7	741.1	730.1	728.3	721.0	724.6
67.5°	680.8	688.1	680.8	680.8	671.7	664.4	655.3	637.0	631.6	617.0	613.3
70°	620.6	615.1	618.8	613.3	602.4	593.2	580.4	565.8	547.6	529.3	516.6
72.5°	562.2	562.2	558.5	553.1	547.6	529.3	514.7	498.3	476.4	452.7	434.4
75°	505.6	507.4	507.4	502.0	492.8	476.4	460.0	436.2	412.5	385.1	361.4
77.5°	465.5	465.5	465.5	456.3	447.2	432.6	412.5	387.0	361.4	328.6	301.2
80°	427.1	425.3	425.3	414.3	405.2	388.8	368.7	343.2	315.8	281.1	250.1
82.5°	396.1	394.3	390.6	381.5	368.7	352.3	332.2	304.8	275.6	244.6	206.3
85°	363.2	361.4	357.8	348.6	335.9	321.3	299.3	272.0	242.8	208.1	171.6
87.5°	334.0	332.2	326.7	321.3	306.7	290.2	268.3	242.8	211.7	178.9	142.4
90°	314.0	310.3	306.7	299.3	286.6	268.3	246.4	219.0	188.0	155.2	118.6
92.5°	290.2	288.4	282.9	275.6	264.7	246.4	224.5	199.0	167.9	136.9	102.2
95°	266.5	264.7	261.0	253.7	242.8	226.3	206.3	180.7	151.5	120.5	89.4
97.5°	244.6	244.6	239.1	233.6	220.9	208.1	188.0	164.3	136.9	109.5	80.3
100°	226.3	226.3	220.9	213.6	204.4	191.7	171.6	149.7	124.1	98.6	69.4
102.5°	209.9	208.1	204.4	197.1	188.0	175.2	157.0	136.9	113.2	87.6	62.1
105°	195.3	193.5	189.8	182.5	175.2	160.6	146.0	125.9	102.2	78.5	54.8
107.5°	180.7	178.9	177.1	169.8	160.6	147.8	133.2	113.2	93.1	71.2	49.3
110°	167.9	166.1	162.5	155.2	146.0	135.1	120.5	104.0	84.0	63.9	43.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	157.0	155.2	151.5	144.2	136.9	124.1	111.3	93.1	76.7	58.4	38.3
115°	146.0	144.2	140.5	133.2	124.1	113.2	100.4	85.8	67.5	51.1	34.7
117.5°	135.1	133.2	129.6	124.1	115.0	104.0	91.3	76.7	60.2	47.5	31.0
120°	125.9	122.3	118.6	113.2	104.0	94.9	82.1	69.4	54.8	42.0	27.4
122.5°	116.8	113.2	109.5	104.0	94.9	85.8	73.0	62.1	51.1	38.3	25.6
125°	105.9	104.0	100.4	94.9	85.8	76.7	67.5	56.6	45.6	34.7	21.9
127.5°	96.7	94.9	91.3	84.0	76.7	69.4	60.2	51.1	40.2	29.2	20.1
130°	89.4	85.8	82.1	76.7	71.2	63.9	54.8	45.6	36.5	25.6	18.3
132.5°	80.3	76.7	73.0	69.4	63.9	56.6	49.3	40.2	32.9	23.7	16.4
135°	73.0	69.4	65.7	62.1	56.6	51.1	43.8	36.5	29.2	21.9	14.6
137.5°	63.9	62.1	60.2	56.6	51.1	45.6	40.2	31.0	25.6	20.1	12.8
140°	58.4	56.6	54.8	49.3	45.6	40.2	34.7	27.4	21.9	16.4	11.0
142.5°	52.9	51.1	47.5	43.8	40.2	36.5	29.2	25.6	20.1	14.6	11.0
145°	45.6	43.8	42.0	38.3	34.7	29.2	25.6	21.9	18.3	12.8	9.1
147.5°	42.0	40.2	36.5	32.9	29.2	25.6	23.7	20.1	14.6	11.0	7.3
150°	34.7	32.9	31.0	27.4	25.6	23.7	20.1	16.4	12.8	9.1	7.3
152.5°	29.2	27.4	25.6	25.6	21.9	20.1	16.4	14.6	11.0	9.1	5.5
155°	25.6	25.6	23.7	21.9	18.3	16.4	14.6	11.0	9.1	7.3	5.5
157.5°	21.9	20.1	18.3	18.3	16.4	14.6	11.0	9.1	7.3	7.3	5.5
160°	18.3	16.4	16.4	14.6	12.8	11.0	9.1	9.1	7.3	5.5	5.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3323.9	3303.8	3322.1	3345.8	3345.8	3342.1	3338.5	3345.8	3364.0	3356.7	3334.8
5°	3318.4	3298.3	3314.8	3338.5	3338.5	3333.0	3329.4	3334.8	3354.9	3345.8	3325.7
7.5°	3307.4	3289.2	3300.1	3322.1	3322.1	3316.6	3312.9	3320.2	3336.7	3327.5	3305.6
10°	3287.4	3267.3	3280.1	3300.1	3298.3	3294.7	3289.2	3298.3	3312.9	3300.1	3274.6
12.5°	3261.8	3241.7	3252.7	3270.9	3269.1	3261.8	3258.2	3263.6	3276.4	3269.1	3241.7
15°	3227.1	3207.1	3216.2	3234.4	3229.0	3223.5	3216.2	3218.0	3234.4	3221.7	3192.5
17.5°	3185.2	3163.3	3170.6	3187.0	3181.5	3176.0	3166.9	3168.7	3187.0	3168.7	3137.7
20°	3134.0	3110.3	3115.8	3135.9	3126.7	3117.6	3108.5	3108.5	3126.7	3106.7	3072.0
22.5°	3079.3	3055.6	3059.2	3073.8	3066.5	3050.1	3041.0	3046.4	3055.6	3030.0	2993.5
25°	3011.8	2980.7	2986.2	3000.8	2995.3	2973.4	2964.3	2967.9	2964.3	2944.2	2905.9
27.5°	2933.3	2900.4	2904.1	2913.2	2905.9	2885.8	2874.9	2876.7	2869.4	2843.8	2800.0
30°	2834.7	2818.3	2816.4	2821.9	2811.0	2790.9	2778.1	2774.5	2772.6	2736.1	2683.2
32.5°	2734.3	2719.7	2710.6	2717.9	2705.1	2685.0	2663.1	2663.1	2644.9	2610.2	2564.6
35°	2632.1	2608.4	2599.2	2604.7	2590.1	2564.6	2546.3	2537.2	2509.8	2466.0	2416.7
37.5°	2500.7	2484.2	2473.3	2478.8	2462.3	2444.1	2409.4	2400.3	2371.1	2310.8	2248.8
40°	2358.3	2345.5	2334.6	2340.0	2321.8	2294.4	2263.4	2248.8	2215.9	2148.4	2099.1
42.5°	2205.0	2199.5	2186.7	2206.8	2170.3	2142.9	2111.9	2088.1	2055.3	1982.3	1925.7
45°	2042.5	2055.3	2026.1	2031.6	2007.8	1984.1	1951.2	1916.6	1883.7	1814.4	1750.5
47.5°	1870.9	1880.1	1860.0	1863.6	1838.1	1816.2	1787.0	1743.2	1706.7	1646.4	1589.8
50°	1693.9	1690.2	1690.2	1686.6	1666.5	1639.1	1609.9	1569.8	1533.3	1478.5	1431.0
52.5°	1505.9	1513.2	1516.8	1526.0	1500.4	1484.0	1438.3	1403.7	1376.3	1319.7	1279.5
55°	1325.2	1350.7	1343.4	1347.1	1317.9	1305.1	1268.6	1241.2	1201.0	1168.2	1142.6
57.5°	1160.9	1166.4	1170.0	1175.5	1162.7	1137.2	1108.0	1086.1	1055.0	1027.6	1009.4
60°	1002.1	1002.1	1003.9	1013.0	1000.3	978.4	956.5	940.0	918.1	901.7	890.7
62.5°	852.4	865.2	867.0	859.7	843.3	832.3	817.7	808.6	794.0	788.5	784.9
65°	713.7	713.7	713.7	717.3	708.2	700.9	691.8	690.0	695.4	688.1	691.8
67.5°	596.9	591.4	587.7	589.6	585.9	582.3	580.4	585.9	596.9	596.9	606.0
70°	496.5	485.5	478.2	478.2	478.2	480.1	485.5	496.5	514.7	522.0	534.8
72.5°	414.3	390.6	379.7	379.7	381.5	388.8	405.2	425.3	441.7	456.3	472.8
75°	335.9	312.1	295.7	293.9	297.5	308.5	332.2	350.5	377.8	397.9	418.0
77.5°	272.0	242.8	222.7	220.9	226.3	242.8	272.0	295.7	326.7	348.6	370.5
80°	217.2	184.4	167.9	157.0	166.1	186.2	219.0	248.2	277.4	306.7	334.0
82.5°	173.4	142.4	116.8	105.9	116.8	144.2	175.2	209.9	239.1	270.1	297.5
85°	136.9	104.0	74.8	63.9	76.7	105.9	140.5	175.2	208.1	239.1	266.5
87.5°	107.7	74.8	45.6	31.0	47.5	78.5	111.3	146.0	180.7	211.7	239.1
90°	84.0	52.9	25.6	3.7	27.4	56.6	89.4	122.3	157.0	188.0	215.4
92.5°	71.2	40.2	14.6	0.0	16.4	42.0	73.0	105.9	136.9	167.9	195.3
95°	60.2	32.9	11.0	0.0	11.0	32.9	60.2	89.4	120.5	151.5	178.9
97.5°	51.1	25.6	7.3	0.0	7.3	25.6	49.3	78.5	105.9	135.1	160.6
100°	43.8	21.9	5.5	0.0	5.5	20.1	42.0	67.5	94.9	122.3	146.0
102.5°	38.3	18.3	3.7	0.0	3.7	16.4	34.7	58.4	82.1	107.7	131.4
105°	32.9	14.6	3.7	0.0	1.8	12.8	29.2	51.1	73.0	96.7	118.6
107.5°	29.2	12.8	3.7	0.0	1.8	11.0	25.6	43.8	65.7	85.8	105.9
110°	25.6	11.0	3.7	0.0	1.8	7.3	21.9	38.3	56.6	76.7	96.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.9	9.1	1.8	0.0	0.0	5.5	18.3	32.9	49.3	69.4	85.8
115°	20.1	9.1	1.8	0.0	0.0	3.7	14.6	29.2	43.8	62.1	76.7
117.5°	18.3	7.3	1.8	0.0	1.8	3.7	12.8	25.6	38.3	52.9	69.4
120°	16.4	7.3	1.8	0.0	1.8	1.8	9.1	21.9	32.9	47.5	60.2
122.5°	14.6	7.3	1.8	0.0	1.8	1.8	7.3	18.3	29.2	42.0	52.9
125°	12.8	5.5	3.7	1.8	1.8	1.8	5.5	14.6	25.6	34.7	47.5
127.5°	12.8	5.5	3.7	1.8	1.8	1.8	3.7	12.8	20.1	31.0	42.0
130°	11.0	5.5	3.7	1.8	1.8	1.8	1.8	9.1	18.3	25.6	34.7
132.5°	9.1	5.5	3.7	1.8	1.8	1.8	1.8	5.5	12.8	21.9	29.2
135°	9.1	5.5	3.7	1.8	1.8	1.8	1.8	3.7	9.1	16.4	23.7
137.5°	7.3	3.7	3.7	1.8	1.8	1.8	1.8	1.8	7.3	12.8	18.3
140°	7.3	3.7	3.7	1.8	1.8	1.8	1.8	1.8	5.5	9.1	14.6
142.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7	7.3	11.0
145°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	7.3
147.5°	5.5	5.5	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5
150°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
152.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
155°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
157.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
160°	5.5	3.7	3.7	1.8	3.7	1.8	3.7	3.7	3.7	3.7	3.7
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-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3327.5	3292.8	3311.1	3305.6	3312.9	3327.5	3325.7	3322.1	3322.1	3316.6	3309.3
5°	3316.6	3283.7	3300.1	3291.0	3300.1	3312.9	3311.1	3305.6	3309.3	3300.1	3291.0
7.5°	3294.7	3265.5	3280.1	3272.8	3280.1	3292.8	3287.4	3285.5	3289.2	3274.6	3269.1
10°	3269.1	3236.3	3252.7	3243.6	3252.7	3261.8	3258.2	3250.9	3258.2	3243.6	3238.1
12.5°	3229.0	3201.6	3212.5	3208.9	3214.4	3223.5	3216.2	3210.7	3214.4	3201.6	3190.6
15°	3185.2	3157.8	3166.9	3161.4	3165.1	3176.0	3163.3	3161.4	3157.8	3145.0	3141.3
17.5°	3128.6	3103.0	3112.1	3103.0	3108.5	3104.8	3103.0	3093.9	3093.9	3079.3	3068.3
20°	3059.2	3037.3	3031.8	3024.5	3031.8	3024.5	3013.6	3006.3	3004.4	2989.8	2980.7
22.5°	2978.9	2953.3	2957.0	2936.9	2938.7	2927.8	2909.5	2902.2	2894.9	2878.5	2865.7
25°	2882.2	2856.6	2838.3	2825.6	2809.1	2807.3	2783.6	2765.3	2763.5	2743.4	2741.6
27.5°	2772.6	2743.4	2728.8	2697.8	2677.7	2661.3	2641.2	2623.0	2613.8	2591.9	2577.3
30°	2646.7	2613.8	2577.3	2555.4	2524.4	2511.6	2476.9	2455.0	2447.7	2424.0	2413.1
32.5°	2504.3	2469.6	2440.4	2398.4	2363.8	2345.5	2310.8	2288.9	2279.8	2254.2	2239.6
35°	2349.2	2310.8	2276.2	2236.0	2208.6	2177.6	2135.6	2113.7	2093.6	2084.5	2073.5
37.5°	2186.7	2144.7	2104.6	2064.4	2040.7	2004.2	1967.7	1953.1	1929.3	1920.2	1909.3
40°	2018.8	1976.8	1938.5	1900.1	1872.8	1839.9	1807.1	1801.6	1776.0	1766.9	1759.6
42.5°	1852.7	1808.9	1765.1	1737.7	1717.6	1684.8	1662.9	1657.4	1635.5	1630.0	1630.0
45°	1703.0	1648.2	1611.7	1588.0	1571.6	1544.2	1526.0	1522.3	1504.0	1500.4	1500.4
47.5°	1542.4	1491.3	1463.9	1449.3	1434.7	1414.6	1403.7	1403.7	1385.4	1381.8	1379.9
50°	1392.7	1345.2	1325.2	1310.6	1308.7	1294.1	1285.0	1281.4	1281.4	1268.6	1270.4
52.5°	1250.3	1226.6	1210.2	1201.0	1190.1	1181.0	1173.7	1173.7	1168.2	1159.1	1162.7
55°	1118.9	1091.5	1093.4	1086.1	1080.6	1075.1	1076.9	1066.0	1064.2	1056.9	1062.3
57.5°	987.5	987.5	983.8	978.4	969.2	972.9	972.9	972.9	963.8	958.3	963.8
60°	876.1	881.6	872.5	878.0	874.3	876.1	872.5	872.5	867.0	865.2	867.0
62.5°	777.6	786.7	783.1	790.4	786.7	788.5	792.2	784.9	781.2	777.6	781.2
65°	690.0	700.9	699.1	704.6	706.4	708.2	710.0	706.4	702.7	699.1	697.3
67.5°	613.3	624.3	631.6	633.4	635.2	640.7	638.9	635.2	631.6	626.1	624.3
70°	543.9	558.5	567.7	571.3	578.6	575.0	575.0	573.1	569.5	564.0	562.2
72.5°	485.5	502.0	511.1	514.7	522.0	522.0	520.2	518.4	514.7	509.3	507.4
75°	434.4	449.0	461.8	469.1	474.6	474.6	472.8	470.9	467.3	463.6	461.8
77.5°	394.3	407.0	418.0	427.1	430.8	432.6	430.8	427.1	427.1	425.3	423.5
80°	354.1	368.7	379.7	388.8	394.3	394.3	392.4	394.3	390.6	388.8	387.0
82.5°	319.4	335.9	348.6	357.8	361.4	363.2	361.4	363.2	359.6	359.6	359.6
85°	288.4	304.8	319.4	326.7	332.2	334.0	334.0	334.0	332.2	332.2	332.2
87.5°	262.8	279.3	293.9	301.2	306.7	308.5	308.5	310.3	306.7	306.7	306.7
90°	239.1	255.5	270.1	277.4	282.9	286.6	286.6	288.4	286.6	284.7	284.7
92.5°	217.2	235.5	250.1	257.4	262.8	268.3	268.3	270.1	266.5	266.5	266.5
95°	199.0	217.2	230.0	239.1	244.6	248.2	250.1	250.1	248.2	248.2	248.2
97.5°	182.5	199.0	211.7	220.9	226.3	228.2	230.0	231.8	230.0	230.0	230.0
100°	166.1	182.5	195.3	202.6	209.9	211.7	213.6	215.4	215.4	213.6	213.6
102.5°	151.5	167.9	178.9	188.0	193.5	197.1	199.0	199.0	199.0	199.0	199.0
105°	136.9	153.3	164.3	173.4	178.9	182.5	184.4	186.2	186.2	184.4	184.4
107.5°	124.1	138.7	151.5	158.8	166.1	169.8	171.6	171.6	173.4	171.6	171.6
110°	111.3	127.8	138.7	146.0	153.3	157.0	158.8	160.6	160.6	160.6	160.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	102.2	115.0	125.9	133.2	140.5	144.2	146.0	147.8	149.7	147.8	147.8
115°	91.3	104.0	115.0	122.3	127.8	131.4	135.1	136.9	136.9	138.7	136.9
117.5°	82.1	93.1	104.0	111.3	116.8	122.3	124.1	125.9	127.8	125.9	125.9
120°	73.0	84.0	93.1	100.4	105.9	111.3	113.2	115.0	116.8	115.0	115.0
122.5°	65.7	74.8	84.0	91.3	96.7	100.4	104.0	104.0	105.9	105.9	105.9
125°	58.4	67.5	74.8	82.1	87.6	91.3	93.1	94.9	94.9	96.7	96.7
127.5°	51.1	58.4	67.5	73.0	78.5	82.1	84.0	85.8	85.8	87.6	87.6
130°	43.8	51.1	58.4	63.9	69.4	73.0	74.8	76.7	78.5	78.5	78.5
132.5°	38.3	45.6	51.1	56.6	60.2	63.9	67.5	69.4	69.4	69.4	69.4
135°	31.0	38.3	43.8	49.3	52.9	56.6	58.4	62.1	62.1	62.1	62.1
137.5°	25.6	32.9	38.3	42.0	45.6	49.3	51.1	52.9	54.8	54.8	54.8
140°	20.1	25.6	31.0	36.5	40.2	42.0	45.6	45.6	47.5	47.5	47.5
142.5°	14.6	20.1	23.7	29.2	32.9	36.5	38.3	40.2	40.2	40.2	40.2
145°	11.0	14.6	18.3	21.9	27.4	29.2	31.0	32.9	34.7	34.7	34.7
147.5°	7.3	11.0	12.8	16.4	20.1	23.7	25.6	27.4	29.2	29.2	29.2
150°	5.5	7.3	11.0	12.8	14.6	18.3	21.9	21.9	23.7	23.7	21.9
152.5°	3.7	5.5	7.3	9.1	11.0	12.8	16.4	16.4	18.3	18.3	18.3
155°	3.7	3.7	3.7	5.5	7.3	9.1	11.0	12.8	12.8	12.8	12.8
157.5°	3.7	3.7	3.7	3.7	3.7	5.5	7.3	9.1	9.1	9.1	9.1
160°	3.7	3.7	1.8	1.8	3.7	3.7	3.7	3.7	5.5	5.5	5.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3314.8	3318.4	3318.4	3314.8	3312.9	3320.2	3311.1	3276.4	3287.4	3291.0	3302.0
5°	3298.3	3302.0	3302.0	3302.0	3298.3	3305.6	3296.5	3261.8	3274.6	3280.1	3287.4
7.5°	3274.6	3276.4	3280.1	3278.2	3274.6	3285.5	3276.4	3241.7	3250.9	3260.0	3269.1
10°	3243.6	3243.6	3245.4	3249.0	3245.4	3254.5	3245.4	3214.4	3223.5	3229.0	3239.9
12.5°	3201.6	3205.2	3207.1	3205.2	3203.4	3210.7	3207.1	3177.9	3181.5	3192.5	3203.4
15°	3145.0	3145.0	3154.1	3150.5	3150.5	3157.8	3161.4	3128.6	3134.0	3150.5	3161.4
17.5°	3075.6	3077.5	3084.8	3088.4	3086.6	3099.4	3101.2	3075.6	3073.8	3093.9	3104.8
20°	2986.2	2989.8	2999.0	3006.3	3006.3	3020.9	3026.4	3009.9	3011.8	3033.7	3037.3
22.5°	2876.7	2876.7	2893.1	2904.1	2913.2	2922.3	2938.7	2924.1	2924.1	2953.3	2969.8
25°	2741.6	2754.4	2759.9	2781.8	2794.5	2820.1	2834.7	2836.5	2838.3	2865.7	2876.7
27.5°	2591.9	2595.6	2612.0	2637.6	2652.2	2675.9	2703.3	2708.7	2717.9	2754.4	2770.8
30°	2422.2	2433.1	2440.4	2476.9	2497.0	2528.0	2562.7	2575.5	2582.8	2632.1	2652.2
32.5°	2248.8	2252.4	2283.5	2303.5	2327.3	2360.1	2400.3	2424.0	2438.6	2489.7	2518.9
35°	2075.4	2082.7	2108.2	2133.8	2157.5	2190.4	2232.3	2265.2	2290.8	2336.4	2374.7
37.5°	1916.6	1934.8	1940.3	1965.9	1984.1	2017.0	2046.2	2093.6	2119.2	2166.6	2215.9
40°	1774.2	1779.7	1783.3	1808.9	1821.7	1852.7	1894.7	1925.7	1960.4	1995.1	2053.5
42.5°	1633.6	1637.3	1642.8	1657.4	1672.0	1693.9	1724.9	1755.9	1792.4	1843.6	1881.9
45°	1504.0	1507.7	1511.4	1520.5	1533.3	1553.3	1573.4	1595.3	1631.8	1675.6	1715.8
47.5°	1383.6	1390.9	1390.9	1392.7	1401.8	1418.3	1432.9	1460.2	1480.3	1504.0	1549.7
50°	1268.6	1274.1	1275.9	1275.9	1281.4	1292.3	1296.0	1314.2	1332.5	1354.4	1387.2
52.5°	1160.9	1160.9	1159.1	1166.4	1166.4	1173.7	1175.5	1186.4	1199.2	1223.0	1237.6
55°	1058.7	1058.7	1064.2	1060.5	1060.5	1064.2	1062.3	1064.2	1075.1	1089.7	1102.5
57.5°	960.1	958.3	963.8	960.1	958.3	961.9	965.6	958.3	960.1	974.7	974.7
60°	861.5	863.4	868.8	865.2	865.2	865.2	861.5	857.9	854.2	863.4	867.0
62.5°	783.1	777.6	783.1	777.6	781.2	779.4	775.8	768.5	770.3	766.6	763.0
65°	700.9	700.9	702.7	697.3	700.9	700.9	695.4	693.6	682.7	679.0	669.9
67.5°	629.7	629.7	631.6	627.9	627.9	629.7	624.3	618.8	607.8	602.4	589.6
70°	567.7	567.7	567.7	565.8	565.8	565.8	562.2	554.9	543.9	534.8	518.4
72.5°	511.1	512.9	511.1	511.1	516.6	511.1	505.6	498.3	489.2	470.9	456.3
75°	465.5	467.3	465.5	465.5	465.5	463.6	461.8	450.8	439.9	425.3	403.4
77.5°	425.3	425.3	427.1	425.3	425.3	423.5	418.0	408.9	396.1	383.3	357.8
80°	387.0	388.8	390.6	392.4	388.8	387.0	381.5	374.2	357.8	343.2	317.6
82.5°	359.6	357.8	359.6	361.4	357.8	355.9	350.5	341.3	328.6	308.5	282.9
85°	332.2	330.4	330.4	332.2	330.4	326.7	321.3	312.1	299.3	279.3	253.7
87.5°	304.8	306.7	308.5	306.7	304.8	301.2	295.7	286.6	272.0	255.5	228.2
90°	284.7	284.7	284.7	284.7	282.9	279.3	273.8	262.8	250.1	230.0	206.3
92.5°	266.5	266.5	266.5	266.5	264.7	259.2	253.7	244.6	230.0	209.9	188.0
95°	248.2	250.1	248.2	248.2	244.6	242.8	233.6	224.5	211.7	191.7	167.9
97.5°	228.2	230.0	228.2	228.2	226.3	222.7	217.2	206.3	193.5	175.2	153.3
100°	213.6	213.6	211.7	211.7	209.9	206.3	199.0	189.8	177.1	158.8	136.9
102.5°	197.1	199.0	197.1	197.1	193.5	189.8	184.4	175.2	162.5	144.2	124.1
105°	184.4	184.4	182.5	182.5	178.9	175.2	169.8	158.8	147.8	131.4	111.3
107.5°	171.6	171.6	169.8	169.8	166.1	162.5	155.2	146.0	135.1	118.6	100.4
110°	158.8	158.8	158.8	157.0	153.3	147.8	142.4	133.2	122.3	107.7	89.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	149.7	147.8	146.0	144.2	140.5	136.9	129.6	120.5	109.5	96.7	80.3
115°	136.9	136.9	135.1	133.2	129.6	124.1	118.6	111.3	100.4	85.8	71.2
117.5°	125.9	125.9	124.1	122.3	118.6	113.2	107.7	100.4	89.4	76.7	63.9
120°	115.0	115.0	113.2	111.3	107.7	102.2	98.6	89.4	80.3	67.5	56.6
122.5°	105.9	104.0	104.0	100.4	98.6	93.1	87.6	80.3	71.2	60.2	49.3
125°	94.9	94.9	93.1	91.3	89.4	84.0	78.5	71.2	62.1	52.9	43.8
127.5°	85.8	85.8	84.0	82.1	80.3	74.8	69.4	63.9	54.8	45.6	36.5
130°	76.7	76.7	74.8	73.0	71.2	65.7	62.1	54.8	47.5	40.2	31.0
132.5°	69.4	69.4	67.5	65.7	62.1	58.4	54.8	47.5	42.0	34.7	27.4
135°	62.1	60.2	60.2	58.4	54.8	51.1	47.5	42.0	34.7	29.2	21.9
137.5°	54.8	52.9	51.1	49.3	47.5	43.8	40.2	36.5	31.0	23.7	18.3
140°	47.5	45.6	45.6	43.8	40.2	38.3	34.7	29.2	25.6	20.1	14.6
142.5°	40.2	40.2	38.3	36.5	34.7	32.9	29.2	25.6	20.1	16.4	11.0
145°	34.7	32.9	32.9	31.0	29.2	25.6	23.7	20.1	16.4	12.8	9.1
147.5°	27.4	27.4	27.4	25.6	23.7	21.9	20.1	16.4	12.8	9.1	5.5
150°	21.9	21.9	21.9	20.1	18.3	16.4	14.6	12.8	9.1	5.5	3.7
152.5°	18.3	18.3	16.4	16.4	14.6	12.8	11.0	9.1	5.5	3.7	3.7
155°	12.8	12.8	12.8	11.0	11.0	9.1	7.3	5.5	3.7	3.7	3.7
157.5°	9.1	9.1	9.1	7.3	7.3	5.5	5.5	3.7	3.7	3.7	3.7
160°	5.5	5.5	5.5	5.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3296.5	3294.7	3309.3	3309.3	3292.8	3318.4	3345.8
5°	3285.5	3283.7	3298.3	3298.3	3283.7	3309.3	3338.5
7.5°	3263.6	3265.5	3280.1	3283.7	3265.5	3289.2	3320.2
10°	3239.9	3238.1	3254.5	3258.2	3243.6	3265.5	3294.7
12.5°	3201.6	3201.6	3218.0	3223.5	3208.9	3234.4	3261.8
15°	3161.4	3161.4	3172.4	3181.5	3168.7	3192.5	3219.8
17.5°	3110.3	3108.5	3119.4	3130.4	3117.6	3143.2	3172.4
20°	3044.6	3044.6	3057.4	3070.2	3061.0	3084.8	3117.6
22.5°	2975.2	2967.9	2989.8	2999.0	2993.5	3017.2	3050.1
25°	2887.6	2885.8	2907.7	2920.5	2913.2	2938.7	2967.9
27.5°	2792.7	2790.9	2812.8	2829.2	2825.6	2849.3	2882.2
30°	2677.7	2686.8	2706.9	2734.3	2725.2	2750.7	2785.4
32.5°	2557.2	2566.4	2590.1	2619.3	2621.1	2641.2	2675.9
35°	2413.1	2436.8	2453.2	2491.5	2498.8	2518.9	2555.4
37.5°	2261.6	2288.9	2323.6	2352.8	2367.4	2383.8	2425.8
40°	2091.8	2132.0	2170.3	2205.0	2223.2	2239.6	2279.8
42.5°	1938.5	1969.5	2006.0	2040.7	2073.5	2088.1	2130.1
45°	1765.1	1801.6	1834.4	1876.4	1909.3	1925.7	1967.7
47.5°	1595.3	1631.8	1675.6	1704.8	1739.5	1755.9	1796.1
50°	1432.9	1465.7	1502.2	1536.9	1566.1	1580.7	1615.4
52.5°	1272.2	1306.9	1341.6	1363.5	1394.5	1405.5	1434.7
55°	1129.9	1153.6	1184.6	1197.4	1228.4	1235.7	1255.8
57.5°	993.0	1009.4	1020.3	1042.2	1064.2	1080.6	1104.3
60°	868.8	876.1	883.4	896.2	914.5	920.0	929.1
62.5°	757.5	755.7	770.3	773.9	775.8	794.0	784.9
65°	658.9	660.8	648.0	642.5	649.8	655.3	651.6
67.5°	576.8	565.8	554.9	542.1	531.2	536.6	531.2
70°	496.5	487.4	469.1	450.8	443.5	432.6	427.1
72.5°	432.6	410.7	392.4	368.7	355.9	343.2	334.0
75°	383.3	352.3	326.7	301.2	282.9	264.7	261.0
77.5°	332.2	303.0	273.8	246.4	219.0	199.0	191.7
80°	292.0	264.7	230.0	197.1	167.9	142.4	133.2
82.5°	255.5	226.3	191.7	157.0	124.1	96.7	85.8
85°	224.5	193.5	158.8	124.1	91.3	62.1	47.5
87.5°	200.8	166.1	131.4	98.6	63.9	34.7	18.3
90°	178.9	146.0	113.2	78.5	45.6	18.3	0.0
92.5°	158.8	127.8	94.9	63.9	34.7	11.0	1.8
95°	140.5	113.2	80.3	51.1	25.6	7.3	1.8
97.5°	125.9	98.6	69.4	42.0	20.1	5.5	1.8
100°	113.2	85.8	60.2	34.7	16.4	3.7	1.8
102.5°	100.4	76.7	51.1	29.2	12.8	1.8	1.8
105°	89.4	67.5	43.8	25.6	11.0	1.8	1.8
107.5°	80.3	60.2	38.3	21.9	7.3	1.8	1.8
110°	71.2	51.1	32.9	18.3	5.5	1.8	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	63.9	45.6	29.2	14.6	3.7	1.8	1.8
115°	56.6	40.2	25.6	12.8	3.7	1.8	1.8
117.5°	49.3	34.7	21.9	9.1	1.8	1.8	1.8
120°	43.8	31.0	18.3	7.3	1.8	1.8	1.8
122.5°	38.3	25.6	14.6	5.5	1.8	1.8	1.8
125°	32.9	21.9	12.8	3.7	1.8	1.8	1.8
127.5°	27.4	18.3	9.1	3.7	1.8	1.8	1.8
130°	23.7	14.6	7.3	1.8	1.8	1.8	1.8
132.5°	20.1	11.0	5.5	1.8	1.8	1.8	1.8
135°	16.4	9.1	3.7	1.8	1.8	1.8	1.8
137.5°	12.8	7.3	3.7	1.8	1.8	1.8	1.8
140°	9.1	5.5	1.8	1.8	1.8	1.8	1.8
142.5°	7.3	3.7	1.8	1.8	1.8	1.8	1.8
145°	5.5	3.7	1.8	1.8	1.8	1.8	1.8
147.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8
150°	3.7	3.7	1.8	1.8	3.7	1.8	1.8
152.5°	3.7	1.8	1.8	1.8	3.7	1.8	1.8
155°	3.7	3.7	3.7	3.7	3.7	3.7	1.8
157.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
160°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)