

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-LC-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-130HL-LC-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

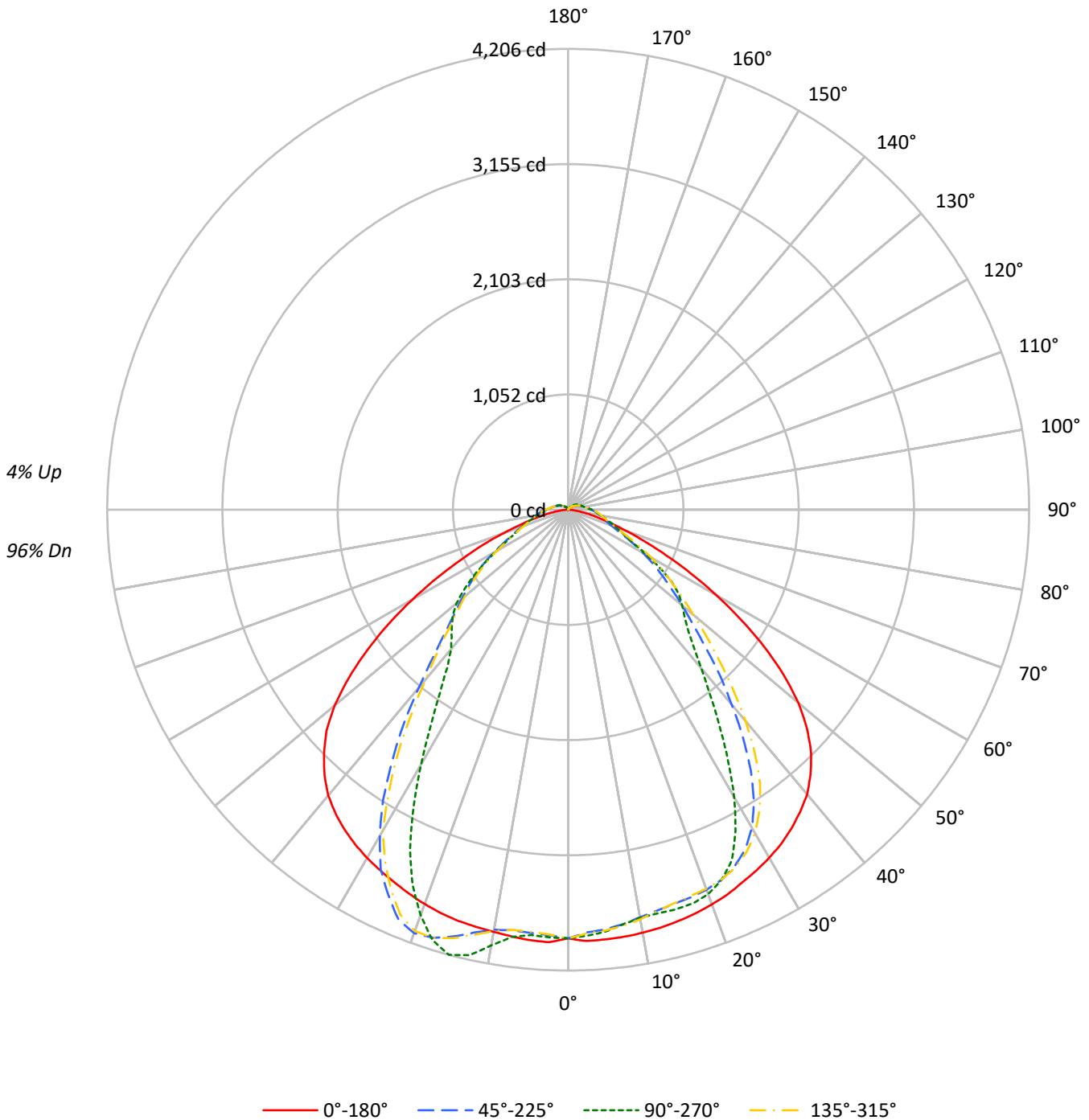
Lumens per Lamp: N/A  
Luminaire Lumens: 9327.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15808	15808	15808	15808
5°	15945	15182	15978	15301
10°	16041	14550	16008	15538
15°	16188	14355	16180	15984
20°	16391	14128	16373	14892
25°	16619	13403	16610	12950
30°	16960	11616	16969	10291
35°	17324	9393	17374	7949
40°	17655	7563	17728	6663
45°	17635	6406	17726	6238
50°	16923	5898	17160	5766
55°	15067	5301	15443	4819
60°	12275	4058	12927	3721
65°	9179	3104	9889	2943
70°	6295	2680	7097	2562
75°	4173	2418	4859	2286
80°	2764	2254	3240	2074
85°	1510	2249	1986	2054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.6	4.0
10°-20°	1105.7	11.9
20°-30°	1681.0	18.0
30°-40°	1803.4	19.3
40°-50°	1565.1	16.8
50°-60°	1159.9	12.4
60°-70°	664.6	7.1
70°-80°	368.0	3.9
80°-90°	224.1	2.4
90°-100°	145.7	1.6
100°-110°	97.6	1.0
110°-120°	65.9	0.7
120°-130°	40.4	0.4
130°-140°	21.3	0.2
140°-150°	9.7	0.1
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3158.4	33.9
0°-40°	4961.8	53.2
0°-60°	7686.8	82.4
0°-90°	8943.5	95.9
90°-120°	309.2	3.3
90°-150°	380.6	4.1
90°-180°	383.0	4.1
0°-180°	9327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3912	3912	3912	3912	3912	
5°	3937	3866	3945	3896	3937	375
15°	3886	3777	3884	4206	3886	1100
25°	3755	3532	3753	3413	3755	1736
35°	3551	2405	3561	2035	3551	2223
45°	3134	1542	3151	1502	3134	2400
55°	2187	1156	2241	1051	2187	1939
65°	992	586	1069	556	992	1000
75°	283	372	329	352	283	323
85°	38	257	50	234	38	51
90°	0	214	4	198	0	2
95°	2	176	0	168	2	1
105°	2	131	2	125	2	2
115°	2	107	2	97	2	2
125°	2	81	2	67	2	2
135°	2	50	2	42	2	2
145°	2	30	4	24	2	1
155°	4	14	4	12	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3940.7	3930.6	3926.6	3918.5	3924.6	3948.8	3932.6	3906.4	3908.4	3861.9	3886.2
5°	3936.7	3924.6	3918.5	3910.4	3914.5	3936.7	3920.5	3894.3	3892.2	3845.8	3868.0
7.5°	3930.6	3918.5	3908.4	3902.3	3904.4	3922.5	3902.3	3872.0	3866.0	3815.4	3835.6
10°	3920.5	3912.4	3898.3	3888.2	3886.2	3906.4	3874.0	3843.7	3829.6	3777.0	3797.2
12.5°	3906.4	3894.3	3880.1	3861.9	3859.9	3872.0	3845.8	3803.3	3789.2	3746.7	3769.0
15°	3886.2	3872.0	3855.9	3835.6	3825.5	3833.6	3801.3	3762.9	3760.9	3724.5	3754.8
17.5°	3863.9	3843.7	3825.5	3797.2	3783.1	3789.2	3762.9	3728.5	3732.6	3710.4	3744.7
20°	3833.6	3811.4	3783.1	3754.8	3734.6	3744.7	3726.5	3700.2	3706.3	3690.1	3720.5
22.5°	3799.3	3769.0	3734.6	3702.3	3686.1	3700.2	3686.1	3663.9	3665.9	3655.8	3674.0
25°	3754.8	3720.5	3680.0	3639.6	3631.5	3641.6	3633.6	3615.4	3607.3	3591.1	3599.2
27.5°	3714.4	3676.0	3625.5	3583.0	3568.9	3589.1	3570.9	3540.6	3518.4	3496.1	3480.0
30°	3667.9	3621.4	3564.8	3516.3	3504.2	3512.3	3486.0	3439.6	3380.9	3352.7	3308.2
32.5°	3617.4	3556.8	3486.0	3431.5	3423.4	3417.3	3368.8	3302.1	3211.2	3154.6	3085.9
35°	3550.7	3484.0	3399.1	3332.4	3320.3	3286.0	3207.1	3118.2	3001.0	2904.0	2786.8
37.5°	3475.9	3397.1	3308.2	3219.3	3184.9	3116.2	3005.1	2912.1	2734.3	2617.1	2475.6
40°	3391.1	3296.1	3186.9	3079.8	3023.2	2912.1	2784.8	2647.4	2475.6	2318.0	2198.7
42.5°	3273.8	3172.8	3043.5	2924.2	2827.2	2679.7	2530.2	2336.1	2178.5	2045.1	1923.9
45°	3134.4	3013.1	2863.6	2720.1	2596.8	2421.0	2245.2	2051.2	1919.8	1764.2	1681.4
47.5°	2954.5	2823.2	2663.5	2503.9	2342.2	2148.2	1964.3	1778.4	1647.0	1535.9	1475.2
50°	2742.3	2621.1	2445.3	2255.3	2077.5	1875.4	1691.5	1552.0	1424.7	1356.0	1309.5
52.5°	2479.6	2366.5	2186.6	1980.5	1808.7	1610.6	1442.9	1329.7	1238.8	1188.3	1172.1
55°	2186.6	2087.6	1909.7	1717.8	1541.9	1360.1	1232.7	1133.7	1075.1	1044.8	1046.8
57.5°	1873.4	1796.6	1628.8	1457.1	1291.3	1153.9	1038.7	959.9	915.5	913.4	919.5
60°	1560.1	1503.5	1358.0	1210.5	1065.0	953.9	869.0	814.4	786.1	788.1	786.1
62.5°	1261.0	1208.5	1103.4	982.2	867.0	792.2	715.4	693.2	668.9	666.9	666.9
65°	992.3	951.8	867.0	780.1	693.2	644.7	606.3	580.0	561.8	557.8	559.8
67.5°	745.7	729.5	670.9	612.3	557.8	527.5	495.1	489.1	474.9	474.9	479.0
70°	555.7	543.6	511.3	476.9	454.7	434.5	418.3	418.3	416.3	414.3	424.4
72.5°	402.2	404.2	394.1	367.8	365.8	361.7	357.7	363.8	365.8	371.8	384.0
75°	282.9	289.0	289.0	284.9	293.0	303.1	309.2	319.3	331.4	339.5	353.7
77.5°	200.1	200.1	210.2	222.3	238.5	256.7	272.8	287.0	303.1	313.2	325.4
80°	129.3	135.4	151.6	173.8	196.0	220.3	242.5	260.7	276.9	293.0	301.1
82.5°	76.8	86.9	107.1	135.4	163.7	194.0	216.2	238.5	256.7	272.8	278.9
85°	38.4	52.5	76.8	107.1	137.4	169.8	198.0	218.3	238.5	252.6	260.7
87.5°	12.1	28.3	54.6	82.9	115.2	147.5	177.8	200.1	218.3	230.4	238.5
90°	0.0	14.1	38.4	68.7	99.0	131.4	159.7	183.9	202.1	212.2	218.3
92.5°	0.0	8.1	30.3	56.6	84.9	117.2	145.5	167.7	183.9	194.0	198.0
95°	2.0	6.1	22.2	46.5	74.8	105.1	131.4	151.6	167.7	177.8	179.9
97.5°	2.0	4.0	18.2	38.4	64.7	93.0	119.2	139.4	151.6	161.7	163.7
100°	2.0	4.0	14.1	34.4	56.6	82.9	107.1	125.3	139.4	147.5	149.5
102.5°	2.0	2.0	12.1	28.3	50.5	72.8	95.0	113.2	125.3	133.4	137.4
105°	2.0	2.0	10.1	24.3	44.5	64.7	84.9	103.1	113.2	121.3	125.3
107.5°	2.0	2.0	8.1	20.2	38.4	56.6	76.8	90.9	103.1	111.1	115.2
110°	2.0	2.0	6.1	18.2	32.3	50.5	66.7	80.8	93.0	101.0	105.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	2.0	6.1	16.2	28.3	44.5	58.6	72.8	82.9	90.9	97.0
115°	2.0	2.0	6.1	14.1	26.3	38.4	52.5	64.7	74.8	82.9	88.9
117.5°	2.0	2.0	6.1	12.1	22.2	34.4	46.5	58.6	66.7	74.8	80.8
120°	2.0	2.0	4.0	10.1	20.2	30.3	40.4	50.5	60.6	68.7	74.8
122.5°	2.0	2.0	4.0	10.1	16.2	26.3	36.4	44.5	54.6	60.6	66.7
125°	2.0	2.0	4.0	8.1	14.1	24.3	32.3	40.4	46.5	54.6	60.6
127.5°	2.0	2.0	4.0	8.1	12.1	20.2	28.3	36.4	42.4	48.5	52.5
130°	2.0	2.0	4.0	6.1	10.1	16.2	24.3	30.3	38.4	42.4	46.5
132.5°	2.0	2.0	2.0	6.1	8.1	12.1	18.2	26.3	32.3	38.4	40.4
135°	2.0	2.0	2.0	4.0	8.1	10.1	14.1	20.2	26.3	32.3	36.4
137.5°	2.0	2.0	2.0	4.0	6.1	10.1	12.1	16.2	22.2	26.3	32.3
140°	2.0	2.0	2.0	4.0	6.1	8.1	10.1	14.1	18.2	22.2	26.3
142.5°	2.0	2.0	2.0	4.0	4.0	6.1	8.1	12.1	14.1	18.2	22.2
145°	2.0	2.0	2.0	4.0	4.0	6.1	8.1	10.1	12.1	14.1	18.2
147.5°	2.0	2.0	2.0	4.0	4.0	4.0	6.1	8.1	10.1	12.1	14.1
150°	4.0	4.0	4.0	4.0	4.0	4.0	6.1	6.1	8.1	10.1	12.1
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	6.1	6.1	6.1	8.1	10.1
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.1	6.1	8.1	8.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3878.1	3882.1	3906.4	3904.4	3900.3	3896.3	3896.3	3892.2	3896.3	3906.4	3902.3
5°	3857.9	3863.9	3882.1	3880.1	3876.1	3874.0	3872.0	3866.0	3870.0	3884.1	3880.1
7.5°	3821.5	3827.6	3843.7	3835.6	3829.6	3833.6	3823.5	3817.5	3825.5	3839.7	3837.7
10°	3783.1	3787.1	3807.4	3803.3	3793.2	3795.2	3785.1	3781.1	3791.2	3799.3	3801.3
12.5°	3756.8	3771.0	3789.2	3787.1	3785.1	3787.1	3777.0	3773.0	3779.1	3787.1	3785.1
15°	3750.8	3769.0	3789.2	3789.2	3791.2	3793.2	3783.1	3777.0	3783.1	3789.2	3787.1
17.5°	3744.7	3766.9	3785.1	3783.1	3785.1	3789.2	3773.0	3769.0	3777.0	3785.1	3781.1
20°	3724.5	3744.7	3756.8	3752.8	3752.8	3754.8	3734.6	3734.6	3746.7	3752.8	3754.8
22.5°	3667.9	3692.2	3692.2	3682.1	3682.1	3674.0	3667.9	3655.8	3669.9	3680.0	3688.1
25°	3583.0	3593.1	3581.0	3558.8	3546.7	3536.6	3508.3	3532.5	3532.5	3562.8	3572.9
27.5°	3463.8	3441.6	3407.2	3360.7	3350.6	3318.3	3300.1	3306.2	3316.3	3358.7	3391.1
30°	3267.8	3201.1	3142.5	3122.3	3077.8	3045.5	3013.1	3029.3	3047.5	3071.8	3138.4
32.5°	3009.1	2944.4	2849.5	2815.1	2768.6	2728.2	2689.8	2714.1	2746.4	2762.6	2835.3
35°	2712.0	2635.2	2548.3	2489.7	2441.2	2419.0	2370.5	2404.9	2439.2	2451.3	2514.0
37.5°	2396.8	2318.0	2241.2	2190.6	2144.2	2130.0	2097.7	2121.9	2148.2	2166.4	2218.9
40°	2097.7	2024.9	1966.3	1932.0	1899.6	1887.5	1875.4	1885.5	1905.7	1919.8	1960.3
42.5°	1841.0	1782.4	1742.0	1721.8	1699.6	1683.4	1685.4	1689.5	1699.6	1729.9	1748.1
45°	1616.7	1582.4	1556.1	1552.0	1537.9	1535.9	1533.9	1541.9	1548.0	1566.2	1580.3
47.5°	1436.9	1422.7	1416.6	1424.7	1430.8	1422.7	1426.7	1436.9	1449.0	1449.0	1447.0
50°	1295.4	1299.4	1307.5	1325.7	1337.8	1341.9	1345.9	1358.0	1360.1	1364.1	1358.0
52.5°	1180.2	1184.2	1206.5	1234.8	1248.9	1255.0	1263.1	1275.2	1275.2	1279.2	1271.1
55°	1063.0	1069.0	1091.3	1119.6	1131.7	1139.8	1147.9	1155.9	1162.0	1170.1	1164.0
57.5°	933.7	951.8	966.0	974.1	982.2	988.2	994.3	996.3	1008.4	1010.4	1020.5
60°	796.2	800.3	814.4	812.4	806.3	822.5	814.4	828.6	842.7	860.9	862.9
62.5°	664.9	666.9	677.0	673.0	681.0	679.0	685.1	685.1	695.2	703.3	713.4
65°	561.8	563.8	571.9	571.9	569.9	576.0	582.0	586.1	586.1	592.1	600.2
67.5°	485.0	491.1	499.2	503.2	507.2	507.2	513.3	515.3	519.4	521.4	525.4
70°	432.5	440.6	448.6	452.7	454.7	458.7	460.8	460.8	464.8	466.8	470.9
72.5°	394.1	402.2	408.2	408.2	412.3	414.3	414.3	416.3	418.3	422.4	426.4
75°	361.7	367.8	371.8	369.8	369.8	369.8	371.8	371.8	375.9	379.9	384.0
77.5°	331.4	337.5	337.5	333.4	333.4	333.4	333.4	335.5	337.5	341.5	345.6
80°	309.2	309.2	307.2	307.2	303.1	301.1	301.1	303.1	303.1	307.2	313.2
82.5°	284.9	284.9	282.9	280.9	278.9	276.9	276.9	278.9	280.9	282.9	287.0
85°	262.7	262.7	258.7	258.7	256.7	256.7	256.7	256.7	258.7	260.7	264.7
87.5°	240.5	238.5	236.4	234.4	234.4	234.4	234.4	234.4	236.4	240.5	242.5
90°	218.3	216.2	214.2	214.2	212.2	212.2	214.2	214.2	216.2	218.3	220.3
92.5°	198.0	196.0	194.0	194.0	192.0	192.0	194.0	192.0	196.0	196.0	198.0
95°	179.9	177.8	175.8	175.8	175.8	175.8	175.8	175.8	177.8	177.8	179.9
97.5°	163.7	161.7	159.7	159.7	161.7	159.7	161.7	161.7	161.7	163.7	165.7
100°	149.5	147.5	147.5	149.5	147.5	147.5	149.5	149.5	149.5	149.5	151.6
102.5°	137.4	137.4	137.4	137.4	137.4	137.4	139.4	139.4	139.4	139.4	141.5
105°	125.3	127.3	127.3	127.3	129.3	129.3	129.3	131.4	131.4	131.4	131.4
107.5°	117.2	119.2	119.2	121.3	121.3	123.3	123.3	123.3	123.3	125.3	125.3
110°	109.1	111.1	113.2	115.2	115.2	117.2	117.2	117.2	117.2	117.2	117.2





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	101.0	103.1	105.1	109.1	111.1	111.1	111.1	111.1	113.2	113.2	111.1
115°	93.0	97.0	99.0	103.1	105.1	105.1	107.1	107.1	107.1	107.1	105.1
117.5°	84.9	90.9	93.0	97.0	99.0	99.0	101.0	101.0	101.0	101.0	99.0
120°	78.8	82.9	86.9	88.9	90.9	93.0	93.0	95.0	95.0	95.0	93.0
122.5°	72.8	76.8	80.8	82.9	84.9	86.9	86.9	86.9	86.9	86.9	86.9
125°	64.7	68.7	72.8	74.8	76.8	78.8	78.8	80.8	80.8	80.8	78.8
127.5°	58.6	62.6	64.7	68.7	70.7	70.7	72.8	72.8	72.8	72.8	70.7
130°	50.5	54.6	58.6	60.6	62.6	62.6	64.7	64.7	64.7	64.7	64.7
132.5°	44.5	48.5	50.5	54.6	54.6	56.6	56.6	58.6	58.6	58.6	56.6
135°	40.4	42.4	44.5	48.5	48.5	50.5	50.5	50.5	50.5	50.5	50.5
137.5°	36.4	38.4	40.4	42.4	42.4	44.5	44.5	44.5	44.5	46.5	44.5
140°	30.3	34.4	36.4	36.4	38.4	38.4	38.4	40.4	40.4	40.4	38.4
142.5°	26.3	28.3	30.3	32.3	34.4	34.4	34.4	34.4	36.4	34.4	34.4
145°	20.2	24.3	26.3	28.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
147.5°	16.2	18.2	22.2	24.3	24.3	26.3	26.3	26.3	26.3	26.3	26.3
150°	14.1	14.1	18.2	20.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
152.5°	10.1	12.1	14.1	16.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
155°	10.1	10.1	12.1	12.1	14.1	14.1	14.1	14.1	16.2	14.1	14.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3896.3	3894.3	3902.3	3894.3	3853.8	3870.0	3863.9	3886.2	3888.2	3894.3	3914.5
5°	3876.1	3876.1	3886.2	3878.1	3839.7	3855.9	3853.8	3876.1	3880.1	3884.1	3906.4
7.5°	3835.6	3837.7	3851.8	3845.8	3805.3	3829.6	3827.6	3853.8	3861.9	3870.0	3890.2
10°	3797.2	3795.2	3811.4	3805.3	3766.9	3795.2	3793.2	3819.5	3831.6	3845.8	3870.0
12.5°	3777.0	3771.0	3777.0	3771.0	3728.5	3750.8	3752.8	3783.1	3797.2	3815.4	3843.7
15°	3777.0	3766.9	3766.9	3754.8	3706.3	3720.5	3722.5	3742.7	3760.9	3779.1	3813.4
17.5°	3773.0	3762.9	3760.9	3750.8	3698.2	3698.2	3696.2	3710.4	3720.5	3738.6	3775.0
20°	3750.8	3746.7	3744.7	3738.6	3690.1	3682.1	3678.0	3678.0	3684.1	3690.1	3726.5
22.5°	3692.2	3696.2	3700.2	3704.3	3665.9	3651.7	3653.8	3649.7	3643.7	3643.7	3674.0
25°	3583.0	3603.2	3619.4	3637.6	3615.4	3605.3	3617.4	3611.3	3601.2	3593.1	3619.4
27.5°	3409.2	3451.7	3486.0	3530.5	3532.5	3524.4	3556.8	3552.7	3550.7	3538.6	3558.8
30°	3168.8	3235.4	3281.9	3346.6	3401.2	3409.2	3463.8	3471.9	3480.0	3473.9	3494.1
32.5°	2877.7	2968.7	3047.5	3148.5	3201.1	3247.6	3324.4	3356.7	3389.0	3399.1	3421.4
35°	2560.5	2663.5	2756.5	2867.6	2950.5	3051.5	3144.5	3193.0	3265.8	3294.0	3326.4
37.5°	2259.4	2356.4	2447.3	2558.4	2691.8	2796.9	2912.1	3021.2	3120.3	3160.7	3209.2
40°	1992.6	2071.4	2158.3	2255.3	2376.6	2514.0	2639.3	2790.8	2908.1	2988.9	3059.6
42.5°	1790.5	1828.9	1903.7	1990.6	2087.6	2227.0	2354.3	2524.1	2665.6	2780.7	2898.0
45°	1610.6	1628.8	1683.4	1729.9	1828.9	1952.2	2087.6	2253.3	2400.8	2548.3	2689.8
47.5°	1457.1	1479.3	1505.6	1533.9	1604.6	1707.7	1824.9	1974.4	2121.9	2293.7	2455.4
50°	1354.0	1360.1	1364.1	1376.2	1418.7	1489.4	1584.4	1711.7	1853.2	2037.1	2208.8
52.5°	1263.1	1263.1	1250.9	1244.9	1261.0	1305.5	1360.1	1451.0	1596.5	1766.3	1948.1
55°	1166.1	1147.9	1143.8	1123.6	1127.7	1147.9	1174.1	1244.9	1364.1	1509.6	1685.4
57.5°	1030.7	1022.6	1022.6	1014.5	998.3	1008.4	1014.5	1065.0	1149.9	1275.2	1428.8
60°	875.0	871.0	881.1	883.1	869.0	875.0	873.0	903.3	964.0	1065.0	1192.3
62.5°	719.4	737.6	739.6	747.7	739.6	737.6	747.7	774.0	804.3	881.1	980.1
65°	604.2	614.4	616.4	626.5	622.4	622.4	630.5	650.7	668.9	721.5	798.3
67.5°	529.5	525.4	527.5	533.5	527.5	525.4	531.5	543.6	557.8	590.1	644.7
70°	470.9	466.8	466.8	466.8	458.7	452.7	454.7	458.7	464.8	483.0	517.3
72.5°	426.4	426.4	420.3	414.3	408.2	404.2	400.1	396.1	394.1	400.1	418.3
75°	386.0	388.0	386.0	379.9	371.8	363.8	355.7	347.6	337.5	333.4	335.5
77.5°	349.6	351.6	353.7	351.6	343.6	333.4	321.3	309.2	295.0	280.9	272.8
80°	317.3	321.3	323.3	321.3	315.3	307.2	293.0	278.9	258.7	240.5	220.3
82.5°	289.0	295.0	297.1	297.1	293.0	284.9	268.8	252.6	230.4	206.1	179.9
85°	266.8	270.8	274.8	274.8	272.8	264.7	248.6	230.4	208.2	179.9	151.6
87.5°	244.5	246.5	250.6	254.6	250.6	242.5	228.4	208.2	185.9	157.6	125.3
90°	222.3	224.3	228.4	232.4	230.4	222.3	210.2	192.0	167.7	137.4	105.1
92.5°	200.1	204.1	206.1	208.2	210.2	204.1	194.0	175.8	151.6	121.3	90.9
95°	183.9	183.9	187.9	190.0	192.0	185.9	177.8	159.7	137.4	109.1	78.8
97.5°	167.7	167.7	171.8	171.8	173.8	169.8	161.7	145.5	123.3	97.0	66.7
100°	151.6	153.6	155.6	157.6	157.6	155.6	147.5	131.4	111.1	86.9	58.6
102.5°	141.5	141.5	143.5	143.5	145.5	141.5	133.4	119.2	99.0	76.8	50.5
105°	131.4	131.4	133.4	133.4	131.4	127.3	119.2	107.1	88.9	66.7	44.5
107.5°	123.3	123.3	123.3	123.3	121.3	117.2	109.1	95.0	78.8	60.6	40.4
110°	117.2	115.2	115.2	113.2	111.1	105.1	97.0	84.9	70.7	52.5	34.4



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	111.1	109.1	107.1	105.1	101.0	95.0	86.9	76.8	62.6	46.5	30.3
115°	105.1	103.1	101.0	97.0	93.0	86.9	78.8	68.7	54.6	40.4	26.3
117.5°	99.0	97.0	93.0	88.9	84.9	78.8	70.7	60.6	48.5	36.4	24.3
120°	90.9	88.9	86.9	82.9	78.8	70.7	62.6	54.6	42.4	32.3	20.2
122.5°	84.9	82.9	78.8	76.8	70.7	64.7	56.6	48.5	38.4	28.3	18.2
125°	76.8	74.8	72.8	68.7	64.7	56.6	50.5	42.4	34.4	24.3	14.1
127.5°	70.7	68.7	64.7	60.6	56.6	50.5	44.5	38.4	30.3	20.2	14.1
130°	62.6	60.6	58.6	54.6	50.5	44.5	40.4	32.3	26.3	18.2	12.1
132.5°	54.6	54.6	52.5	48.5	44.5	40.4	34.4	28.3	22.2	16.2	10.1
135°	50.5	48.5	46.5	42.4	40.4	34.4	30.3	24.3	18.2	14.1	8.1
137.5°	44.5	42.4	40.4	38.4	34.4	30.3	26.3	20.2	16.2	12.1	8.1
140°	38.4	36.4	36.4	32.3	30.3	26.3	22.2	18.2	14.1	10.1	6.1
142.5°	34.4	32.3	30.3	28.3	26.3	22.2	18.2	14.1	12.1	8.1	6.1
145°	30.3	28.3	26.3	24.3	22.2	18.2	16.2	12.1	10.1	8.1	6.1
147.5°	24.3	24.3	22.2	20.2	18.2	16.2	14.1	12.1	8.1	6.1	4.0
150°	20.2	20.2	18.2	16.2	16.2	14.1	12.1	10.1	8.1	6.1	4.0
152.5°	18.2	16.2	16.2	14.1	14.1	12.1	10.1	8.1	6.1	6.1	4.0
155°	14.1	14.1	14.1	12.1	12.1	10.1	8.1	8.1	6.1	4.0	4.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3918.5	3894.3	3914.5	3950.8	3946.8	3942.8	3938.7	3946.8	3973.1	3958.9	3936.7
5°	3912.4	3888.2	3910.4	3944.8	3942.8	3936.7	3932.6	3940.7	3967.0	3952.9	3928.6
7.5°	3900.3	3878.1	3894.3	3928.6	3928.6	3924.6	3920.5	3928.6	3952.9	3940.7	3916.5
10°	3880.1	3863.9	3880.1	3912.4	3914.5	3906.4	3902.3	3912.4	3936.7	3930.6	3910.4
12.5°	3863.9	3847.8	3866.0	3898.3	3900.3	3892.2	3886.2	3898.3	3930.6	3934.7	3928.6
15°	3841.7	3827.6	3849.8	3884.1	3884.1	3878.1	3878.1	3894.3	3938.7	3956.9	3967.0
17.5°	3809.4	3799.3	3825.5	3859.9	3861.9	3857.9	3859.9	3892.2	3950.8	3995.3	4023.6
20°	3769.0	3764.9	3793.2	3829.6	3835.6	3837.7	3847.8	3896.3	3977.1	4037.7	4066.0
22.5°	3720.5	3722.5	3754.8	3793.2	3801.3	3807.4	3827.6	3896.3	3997.3	4062.0	4074.1
25°	3665.9	3672.0	3706.3	3752.8	3762.9	3775.0	3809.4	3898.3	4003.4	4045.8	4025.6
27.5°	3607.3	3619.4	3663.9	3712.4	3724.5	3744.7	3789.2	3886.2	3975.1	3977.1	3902.3
30°	3546.7	3560.8	3613.3	3669.9	3690.1	3710.4	3764.9	3857.9	3906.4	3841.7	3710.4
32.5°	3477.9	3498.2	3550.7	3619.4	3643.7	3669.9	3724.5	3803.3	3785.1	3645.7	3457.7
35°	3391.1	3419.3	3480.0	3560.8	3583.0	3617.4	3655.8	3674.0	3593.1	3395.1	3182.9
37.5°	3283.9	3326.4	3397.1	3490.1	3514.3	3536.6	3546.7	3496.1	3334.5	3120.3	2900.0
40°	3160.7	3225.3	3302.1	3405.2	3429.4	3429.4	3393.1	3286.0	3081.9	2801.0	2556.4
42.5°	3011.1	3089.9	3186.9	3290.0	3314.3	3286.0	3199.1	3011.1	2778.7	2465.5	2206.8
45°	2829.2	2934.3	3043.5	3150.6	3162.7	3100.0	2944.4	2706.0	2419.0	2128.0	1881.4
47.5°	2613.0	2750.4	2869.7	2990.9	2974.7	2869.7	2661.5	2390.7	2087.6	1812.7	1614.7
50°	2370.5	2532.2	2665.6	2780.7	2746.4	2600.9	2356.4	2073.4	1772.3	1537.9	1374.2
52.5°	2111.8	2297.8	2431.1	2524.1	2477.6	2303.8	2035.0	1764.2	1517.7	1303.5	1194.3
55°	1843.1	2031.0	2168.4	2241.2	2180.5	1992.6	1727.9	1481.3	1248.9	1109.5	1044.8
57.5°	1582.4	1758.2	1887.5	1946.1	1869.3	1681.4	1436.9	1228.7	1061.0	943.8	911.4
60°	1331.8	1475.2	1598.5	1643.0	1560.1	1386.3	1176.2	1010.4	887.2	806.3	790.2
62.5°	1099.4	1216.6	1313.6	1347.9	1267.1	1131.7	949.8	826.5	739.6	699.2	679.0
65°	907.4	976.1	1075.1	1069.0	1020.5	895.3	761.9	675.0	618.4	592.1	580.0
67.5°	713.4	776.0	838.7	846.8	786.1	699.2	612.3	549.7	519.4	505.2	499.2
70°	551.7	598.2	636.6	626.5	594.1	539.6	485.0	450.7	438.5	432.5	432.5
72.5°	428.4	452.7	470.9	458.7	438.5	410.2	384.0	369.8	371.8	375.9	379.9
75°	331.4	337.5	341.5	329.4	325.4	307.2	305.2	307.2	319.3	331.4	337.5
77.5°	254.6	246.5	240.5	228.4	230.4	228.4	238.5	254.6	272.8	291.0	307.2
80°	196.0	177.8	163.7	151.6	157.6	167.7	187.9	212.2	236.4	256.7	276.9
82.5°	151.6	125.3	105.1	93.0	105.1	121.3	147.5	177.8	206.1	228.4	250.6
85°	117.2	86.9	62.6	50.5	62.6	86.9	115.2	149.5	179.9	204.1	226.3
87.5°	90.9	62.6	34.4	20.2	34.4	60.6	93.0	125.3	155.6	183.9	206.1
90°	72.8	42.4	16.2	4.0	18.2	42.4	72.8	105.1	135.4	165.7	187.9
92.5°	58.6	30.3	8.1	0.0	10.1	32.3	60.6	90.9	121.3	149.5	171.8
95°	48.5	24.3	6.1	0.0	8.1	24.3	48.5	78.8	107.1	135.4	153.6
97.5°	40.4	18.2	4.0	0.0	4.0	20.2	40.4	66.7	95.0	121.3	139.4
100°	34.4	16.2	4.0	0.0	4.0	16.2	34.4	58.6	82.9	107.1	125.3
102.5°	28.3	12.1	2.0	2.0	2.0	12.1	30.3	50.5	72.8	95.0	113.2
105°	26.3	10.1	2.0	2.0	2.0	10.1	26.3	44.5	64.7	84.9	101.0
107.5°	22.2	8.1	2.0	2.0	2.0	8.1	22.2	38.4	58.6	76.8	90.9
110°	18.2	8.1	2.0	2.0	2.0	8.1	18.2	34.4	50.5	66.7	80.8



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	16.2	6.1	2.0	2.0	2.0	6.1	16.2	30.3	44.5	60.6	72.8
115°	14.1	6.1	2.0	2.0	2.0	6.1	14.1	26.3	38.4	52.5	64.7
117.5°	12.1	6.1	2.0	2.0	2.0	4.0	12.1	22.2	34.4	46.5	58.6
120°	10.1	4.0	2.0	2.0	2.0	4.0	10.1	20.2	30.3	40.4	50.5
122.5°	10.1	4.0	2.0	2.0	2.0	4.0	8.1	16.2	26.3	34.4	44.5
125°	8.1	4.0	2.0	2.0	2.0	2.0	8.1	14.1	22.2	30.3	38.4
127.5°	8.1	4.0	2.0	2.0	2.0	2.0	6.1	12.1	18.2	26.3	34.4
130°	6.1	4.0	2.0	2.0	2.0	2.0	4.0	10.1	16.2	22.2	28.3
132.5°	6.1	4.0	2.0	2.0	2.0	2.0	4.0	8.1	12.1	18.2	24.3
135°	6.1	2.0	2.0	2.0	2.0	2.0	2.0	6.1	10.1	14.1	18.2
137.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	8.1	10.1	16.2
140°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.1	8.1	12.1
142.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.1	10.1
145°	4.0	2.0	2.0	4.0	4.0	2.0	2.0	4.0	4.0	6.1	8.1
147.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.1
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.1
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3932.6	3886.2	3910.4	3902.3	3910.4	3930.6	3928.6	3922.5	3926.6	3916.5	3906.4
5°	3924.6	3878.1	3902.3	3892.2	3902.3	3922.5	3918.5	3912.4	3918.5	3906.4	3896.3
7.5°	3914.5	3872.0	3900.3	3898.3	3916.5	3942.8	3944.8	3944.8	3958.9	3940.7	3932.6
10°	3914.5	3892.2	3930.6	3944.8	3991.3	4025.6	4029.7	4037.7	4062.0	4057.9	4037.7
12.5°	3956.9	3952.9	4009.4	4043.8	4086.2	4134.7	4161.0	4169.1	4185.3	4173.1	4165.1
15°	4011.5	4031.7	4094.3	4132.7	4179.2	4215.6	4221.6	4225.7	4237.8	4219.6	4205.5
17.5°	4084.2	4096.3	4146.9	4163.0	4193.3	4199.4	4191.3	4171.1	4171.1	4130.7	4118.6
20°	4118.6	4112.5	4132.7	4106.4	4094.3	4057.9	4023.6	3985.2	3983.2	3940.7	3936.7
22.5°	4088.3	4047.8	4005.4	3940.7	3912.4	3859.9	3813.4	3791.2	3777.0	3722.5	3708.3
25°	3981.2	3882.1	3819.5	3742.7	3674.0	3613.3	3568.9	3522.4	3477.9	3433.5	3413.3
27.5°	3795.2	3702.3	3601.2	3494.1	3399.1	3306.2	3231.4	3184.9	3142.5	3083.9	3053.6
30°	3566.9	3437.5	3326.4	3223.3	3067.7	2954.5	2891.9	2798.9	2766.6	2740.3	2683.7
32.5°	3298.1	3142.5	2990.9	2851.5	2691.8	2586.7	2503.9	2435.2	2415.0	2346.3	2330.1
35°	3001.0	2796.9	2625.1	2487.7	2372.5	2245.2	2176.5	2130.0	2089.6	2043.1	2035.0
37.5°	2651.4	2467.5	2273.5	2152.2	2061.3	1952.2	1899.6	1867.3	1849.1	1814.8	1808.7
40°	2299.8	2115.9	1982.5	1861.2	1804.7	1746.0	1707.7	1693.5	1685.4	1673.3	1661.2
42.5°	1980.5	1818.8	1723.8	1643.0	1618.7	1590.4	1580.3	1588.4	1580.3	1576.3	1574.3
45°	1709.7	1586.4	1519.7	1495.5	1489.4	1481.3	1489.4	1503.5	1505.6	1501.5	1501.5
47.5°	1463.1	1404.5	1376.2	1380.3	1390.4	1396.4	1410.6	1428.8	1432.8	1422.7	1426.7
50°	1301.5	1267.1	1261.0	1277.2	1299.4	1307.5	1323.7	1337.8	1335.8	1331.8	1327.7
52.5°	1149.9	1139.8	1155.9	1172.1	1196.4	1200.4	1206.5	1212.5	1210.5	1202.4	1198.4
55°	1022.6	1030.7	1044.8	1050.9	1069.0	1067.0	1069.0	1069.0	1061.0	1056.9	1050.9
57.5°	907.4	909.4	917.5	919.5	929.6	925.6	923.5	919.5	907.4	905.4	899.3
60°	790.2	786.1	804.3	790.2	798.3	790.2	788.1	778.0	765.9	763.9	759.9
62.5°	679.0	670.9	683.1	677.0	681.0	673.0	668.9	656.8	646.7	644.7	642.6
65°	580.0	576.0	588.1	586.1	590.1	580.0	576.0	567.9	559.8	557.8	555.7
67.5°	497.1	507.2	513.3	513.3	517.3	515.3	505.2	503.2	501.2	493.1	493.1
70°	436.5	442.6	454.7	456.7	454.7	458.7	450.7	448.6	446.6	442.6	440.6
72.5°	388.0	396.1	408.2	410.2	408.2	408.2	404.2	402.2	402.2	396.1	396.1
75°	349.6	359.7	369.8	369.8	369.8	365.8	361.7	361.7	357.7	355.7	351.6
77.5°	317.3	329.4	337.5	335.5	333.4	329.4	329.4	323.3	317.3	317.3	313.2
80°	293.0	301.1	307.2	305.2	303.1	297.1	295.0	289.0	284.9	278.9	278.9
82.5°	266.8	276.9	280.9	278.9	274.8	268.8	266.8	262.7	258.7	256.7	252.6
85°	244.5	254.6	256.7	252.6	248.6	244.5	242.5	240.5	238.5	234.4	234.4
87.5°	222.3	232.4	232.4	230.4	226.3	224.3	222.3	220.3	218.3	216.2	214.2
90°	204.1	212.2	212.2	210.2	208.2	206.1	204.1	202.1	200.1	198.0	198.0
92.5°	185.9	194.0	194.0	192.0	190.0	187.9	187.9	185.9	183.9	181.9	179.9
95°	169.8	177.8	177.8	177.8	175.8	173.8	173.8	171.8	169.8	169.8	167.7
97.5°	153.6	161.7	161.7	161.7	159.7	157.6	157.6	155.6	155.6	155.6	153.6
100°	139.4	145.5	147.5	147.5	145.5	145.5	145.5	143.5	143.5	143.5	141.5
102.5°	125.3	131.4	135.4	135.4	135.4	133.4	133.4	133.4	133.4	133.4	131.4
105°	113.2	119.2	123.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
107.5°	103.1	109.1	113.2	115.2	117.2	117.2	119.2	119.2	119.2	119.2	119.2
110°	93.0	99.0	105.1	107.1	109.1	111.1	111.1	113.2	111.1	111.1	111.1



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	82.9	90.9	95.0	99.0	101.0	103.1	105.1	105.1	105.1	105.1	105.1
115°	74.8	82.9	86.9	90.9	95.0	97.0	97.0	99.0	99.0	99.0	97.0
117.5°	66.7	74.8	78.8	82.9	84.9	88.9	90.9	90.9	90.9	90.9	88.9
120°	60.6	66.7	70.7	74.8	78.8	80.8	82.9	82.9	82.9	82.9	82.9
122.5°	52.5	58.6	64.7	68.7	70.7	72.8	74.8	74.8	74.8	74.8	74.8
125°	46.5	52.5	56.6	60.6	62.6	66.7	66.7	66.7	66.7	66.7	66.7
127.5°	40.4	46.5	50.5	54.6	56.6	58.6	60.6	60.6	60.6	60.6	60.6
130°	34.4	40.4	44.5	48.5	50.5	52.5	52.5	54.6	54.6	54.6	54.6
132.5°	30.3	34.4	38.4	42.4	44.5	46.5	46.5	48.5	48.5	48.5	48.5
135°	24.3	30.3	32.3	36.4	38.4	40.4	40.4	42.4	42.4	42.4	42.4
137.5°	20.2	24.3	28.3	32.3	34.4	34.4	36.4	36.4	38.4	38.4	38.4
140°	16.2	18.2	24.3	26.3	28.3	30.3	32.3	32.3	32.3	32.3	32.3
142.5°	12.1	16.2	18.2	22.2	24.3	26.3	28.3	28.3	28.3	28.3	28.3
145°	10.1	12.1	14.1	18.2	20.2	22.2	24.3	24.3	24.3	24.3	24.3
147.5°	8.1	10.1	12.1	14.1	16.2	18.2	20.2	20.2	20.2	20.2	20.2
150°	6.1	8.1	10.1	10.1	12.1	14.1	16.2	18.2	18.2	18.2	18.2
152.5°	6.1	6.1	8.1	8.1	10.1	12.1	14.1	14.1	14.1	14.1	14.1
155°	4.0	6.1	6.1	6.1	8.1	8.1	10.1	12.1	12.1	12.1	12.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3912.4	3920.5	3916.5	3910.4	3908.4	3918.5	3908.4	3861.9	3880.1	3882.1	3896.3
5°	3906.4	3912.4	3908.4	3904.4	3898.3	3910.4	3898.3	3849.8	3868.0	3870.0	3884.1
7.5°	3946.8	3948.8	3948.8	3938.7	3922.5	3928.6	3912.4	3857.9	3868.0	3868.0	3878.1
10°	4047.8	4051.9	4057.9	4031.7	4011.5	3995.3	3973.1	3906.4	3904.4	3888.2	3888.2
12.5°	4179.2	4169.1	4159.0	4146.9	4130.7	4110.5	4078.2	3999.3	3973.1	3946.8	3920.5
15°	4217.6	4213.6	4211.5	4205.5	4195.4	4189.3	4165.1	4086.2	4047.8	4015.5	3969.0
17.5°	4116.5	4124.6	4150.9	4152.9	4165.1	4189.3	4185.3	4130.7	4096.3	4082.2	4025.6
20°	3934.7	3936.7	3969.0	3983.2	4035.7	4076.1	4106.4	4100.4	4092.3	4108.5	4066.0
22.5°	3716.4	3730.6	3764.9	3787.1	3837.7	3884.1	3932.6	3958.9	4001.4	4068.0	4060.0
25°	3419.3	3437.5	3486.0	3522.4	3593.1	3663.9	3728.5	3775.0	3825.5	3952.9	3995.3
27.5°	3063.7	3092.0	3154.6	3191.0	3290.0	3362.8	3455.7	3546.7	3617.4	3762.9	3849.8
30°	2689.8	2714.1	2780.7	2831.3	2916.1	3015.2	3132.4	3261.7	3378.9	3526.5	3635.6
32.5°	2340.2	2366.5	2421.0	2465.5	2560.5	2643.3	2772.7	2932.3	3041.4	3245.5	3391.1
35°	2035.0	2059.3	2097.7	2136.1	2214.9	2299.8	2410.9	2566.5	2706.0	2918.2	3102.1
37.5°	1820.8	1824.9	1847.1	1869.3	1927.9	1992.6	2079.5	2216.9	2346.3	2574.6	2776.7
40°	1667.2	1667.2	1679.4	1685.4	1711.7	1750.1	1804.7	1911.8	2018.9	2192.7	2439.2
42.5°	1572.3	1568.2	1568.2	1570.2	1568.2	1586.4	1618.7	1669.3	1764.2	1907.7	2099.7
45°	1501.5	1493.4	1487.4	1473.2	1465.1	1465.1	1467.2	1485.4	1539.9	1632.9	1788.5
47.5°	1422.7	1420.7	1410.6	1394.4	1380.3	1370.2	1354.0	1347.9	1364.1	1416.6	1521.7
50°	1331.8	1321.7	1311.6	1299.4	1283.3	1273.2	1242.8	1244.9	1230.7	1255.0	1309.5
52.5°	1198.4	1190.3	1186.3	1176.2	1170.1	1166.1	1141.8	1117.6	1111.5	1115.5	1135.7
55°	1050.9	1054.9	1038.7	1046.8	1044.8	1026.6	1016.5	998.3	992.3	990.2	1000.3
57.5°	897.3	901.3	891.2	899.3	899.3	889.2	883.1	883.1	869.0	856.9	871.0
60°	757.8	749.7	755.8	765.9	765.9	759.9	755.8	755.8	745.7	741.7	751.8
62.5°	644.7	636.6	642.6	652.7	654.8	650.7	646.7	646.7	634.6	634.6	642.6
65°	557.8	559.8	557.8	565.8	565.8	567.9	563.8	559.8	545.6	551.7	549.7
67.5°	495.1	493.1	493.1	501.2	499.2	503.2	499.2	493.1	483.0	474.9	472.9
70°	442.6	440.6	440.6	444.6	446.6	446.6	444.6	440.6	426.4	418.3	412.3
72.5°	396.1	394.1	396.1	398.1	400.1	402.2	400.1	396.1	384.0	373.9	363.8
75°	353.7	351.6	357.7	357.7	359.7	359.7	361.7	359.7	349.6	337.5	325.4
77.5°	311.2	313.2	319.3	321.3	325.4	327.4	329.4	329.4	319.3	309.2	293.0
80°	276.9	280.9	284.9	287.0	291.0	297.1	299.1	301.1	293.0	282.9	264.7
82.5°	252.6	254.6	258.7	260.7	266.8	268.8	270.8	274.8	270.8	260.7	240.5
85°	232.4	234.4	238.5	238.5	242.5	246.5	248.6	250.6	248.6	238.5	218.3
87.5°	214.2	216.2	218.3	220.3	222.3	224.3	226.3	228.4	226.3	216.2	198.0
90°	198.0	198.0	200.1	200.1	202.1	204.1	208.2	208.2	206.1	198.0	179.9
92.5°	179.9	181.9	181.9	183.9	185.9	187.9	190.0	190.0	187.9	179.9	163.7
95°	167.7	167.7	169.8	169.8	171.8	171.8	173.8	173.8	171.8	163.7	147.5
97.5°	153.6	153.6	153.6	153.6	155.6	155.6	157.6	157.6	155.6	147.5	133.4
100°	141.5	141.5	141.5	141.5	141.5	143.5	143.5	143.5	141.5	133.4	119.2
102.5°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	127.3	121.3	107.1
105°	125.3	125.3	125.3	123.3	123.3	123.3	121.3	121.3	115.2	109.1	97.0
107.5°	117.2	117.2	117.2	115.2	115.2	113.2	111.1	111.1	105.1	99.0	86.9
110°	111.1	111.1	111.1	109.1	107.1	105.1	103.1	101.0	95.0	86.9	76.8





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.1	105.1	103.1	103.1	101.0	99.0	95.0	93.0	86.9	78.8	68.7
115°	97.0	97.0	97.0	95.0	93.0	90.9	88.9	84.9	78.8	70.7	60.6
117.5°	88.9	88.9	88.9	86.9	84.9	82.9	80.8	76.8	70.7	62.6	54.6
120°	80.8	80.8	80.8	78.8	76.8	74.8	72.8	68.7	62.6	56.6	46.5
122.5°	74.8	74.8	72.8	70.7	68.7	66.7	64.7	60.6	56.6	48.5	40.4
125°	66.7	66.7	64.7	64.7	62.6	60.6	58.6	54.6	48.5	42.4	36.4
127.5°	60.6	58.6	58.6	58.6	56.6	54.6	50.5	48.5	42.4	36.4	30.3
130°	52.5	52.5	52.5	50.5	50.5	48.5	44.5	40.4	36.4	32.3	26.3
132.5°	46.5	46.5	46.5	46.5	44.5	42.4	38.4	36.4	32.3	26.3	22.2
135°	42.4	42.4	40.4	40.4	38.4	36.4	34.4	30.3	26.3	22.2	18.2
137.5°	36.4	36.4	36.4	34.4	34.4	32.3	28.3	26.3	24.3	20.2	16.2
140°	32.3	32.3	30.3	30.3	28.3	28.3	26.3	22.2	20.2	16.2	14.1
142.5°	28.3	28.3	26.3	26.3	24.3	24.3	22.2	20.2	16.2	14.1	10.1
145°	24.3	24.3	22.2	22.2	22.2	20.2	18.2	16.2	14.1	12.1	10.1
147.5°	20.2	20.2	20.2	18.2	18.2	16.2	16.2	14.1	12.1	10.1	8.1
150°	18.2	18.2	16.2	16.2	16.2	14.1	12.1	12.1	10.1	8.1	6.1
152.5°	14.1	14.1	14.1	14.1	12.1	12.1	10.1	10.1	8.1	6.1	6.1
155°	12.1	12.1	12.1	10.1	10.1	10.1	8.1	8.1	6.1	6.1	4.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4	3912.4
2.5°	3890.2	3888.2	3906.4	3904.4	3880.1	3916.5	3940.7
5°	3880.1	3878.1	3894.3	3898.3	3872.0	3910.4	3936.7
7.5°	3872.0	3870.0	3888.2	3894.3	3868.0	3902.3	3930.6
10°	3874.0	3863.9	3880.1	3884.1	3859.9	3896.3	3920.5
12.5°	3888.2	3863.9	3870.0	3870.0	3847.8	3880.1	3906.4
15°	3922.5	3872.0	3863.9	3857.9	3829.6	3859.9	3886.2
17.5°	3960.9	3892.2	3863.9	3843.7	3809.4	3835.6	3863.9
20°	3999.3	3914.5	3868.0	3835.6	3789.2	3813.4	3833.6
22.5°	4017.5	3934.7	3872.0	3823.5	3764.9	3777.0	3799.3
25°	3993.3	3926.6	3863.9	3805.3	3734.6	3736.6	3754.8
27.5°	3904.4	3886.2	3845.8	3787.1	3710.4	3700.2	3714.4
30°	3752.8	3803.3	3805.3	3762.9	3682.1	3661.8	3667.9
32.5°	3540.6	3653.8	3720.5	3712.4	3641.6	3613.3	3617.4
35°	3296.1	3437.5	3583.0	3631.5	3581.0	3558.8	3550.7
37.5°	3003.0	3193.0	3387.0	3506.2	3498.2	3484.0	3475.9
40°	2679.7	2908.1	3138.4	3328.4	3387.0	3387.0	3391.1
42.5°	2334.1	2600.9	2853.5	3094.0	3231.4	3261.7	3273.8
45°	2000.7	2269.5	2544.3	2821.2	3005.1	3100.0	3134.4
47.5°	1697.5	1968.3	2229.0	2532.2	2776.7	2900.0	2954.5
50°	1438.9	1641.0	1915.8	2216.9	2483.7	2635.2	2742.3
52.5°	1224.7	1382.3	1622.8	1903.7	2172.5	2380.6	2479.6
55°	1044.8	1151.9	1356.0	1598.5	1855.2	2071.4	2186.6
57.5°	893.2	978.1	1117.6	1319.6	1535.9	1750.1	1873.4
60°	759.9	818.5	913.4	1073.1	1257.0	1440.9	1560.1
62.5°	644.7	683.1	745.7	862.9	1006.4	1149.9	1261.0
65°	555.7	571.9	606.3	679.0	788.1	897.3	992.3
67.5°	468.8	479.0	505.2	549.7	604.2	683.1	745.7
70°	404.2	404.2	406.2	432.5	460.8	511.3	555.7
72.5°	351.6	345.6	333.4	339.5	345.6	373.9	402.2
75°	309.2	295.0	274.8	266.8	262.7	266.8	282.9
77.5°	272.8	252.6	228.4	208.2	192.0	185.9	200.1
80°	242.5	218.3	190.0	163.7	137.4	123.3	129.3
82.5°	218.3	187.9	157.6	127.3	97.0	76.8	76.8
85°	192.0	163.7	131.4	99.0	68.7	42.4	38.4
87.5°	173.8	143.5	109.1	78.8	48.5	22.2	12.1
90°	155.6	125.3	93.0	62.6	34.4	10.1	0.0
92.5°	139.4	111.1	80.8	50.5	24.3	6.1	0.0
95°	125.3	99.0	68.7	42.4	20.2	4.0	2.0
97.5°	111.1	86.9	60.6	34.4	14.1	4.0	2.0
100°	101.0	76.8	52.5	28.3	12.1	2.0	2.0
102.5°	88.9	68.7	44.5	24.3	10.1	2.0	2.0
105°	78.8	60.6	38.4	20.2	8.1	2.0	2.0
107.5°	70.7	52.5	34.4	18.2	8.1	2.0	2.0
110°	62.6	46.5	30.3	16.2	6.1	2.0	2.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	56.6	40.4	26.3	14.1	4.0	2.0	2.0
115°	48.5	36.4	22.2	12.1	4.0	2.0	2.0
117.5°	42.4	30.3	20.2	10.1	4.0	2.0	2.0
120°	36.4	26.3	16.2	8.1	2.0	2.0	2.0
122.5°	32.3	22.2	14.1	8.1	2.0	2.0	2.0
125°	28.3	20.2	12.1	6.1	2.0	2.0	2.0
127.5°	24.3	16.2	10.1	4.0	2.0	2.0	2.0
130°	20.2	14.1	8.1	4.0	2.0	2.0	2.0
132.5°	16.2	12.1	8.1	4.0	2.0	2.0	2.0
135°	14.1	10.1	6.1	4.0	2.0	2.0	2.0
137.5°	12.1	8.1	4.0	4.0	4.0	2.0	2.0
140°	10.1	6.1	4.0	4.0	4.0	4.0	2.0
142.5°	8.1	6.1	4.0	4.0	4.0	4.0	2.0
145°	6.1	4.0	4.0	4.0	4.0	4.0	2.0
147.5°	6.1	4.0	4.0	4.0	4.0	4.0	2.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)