

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-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 (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-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

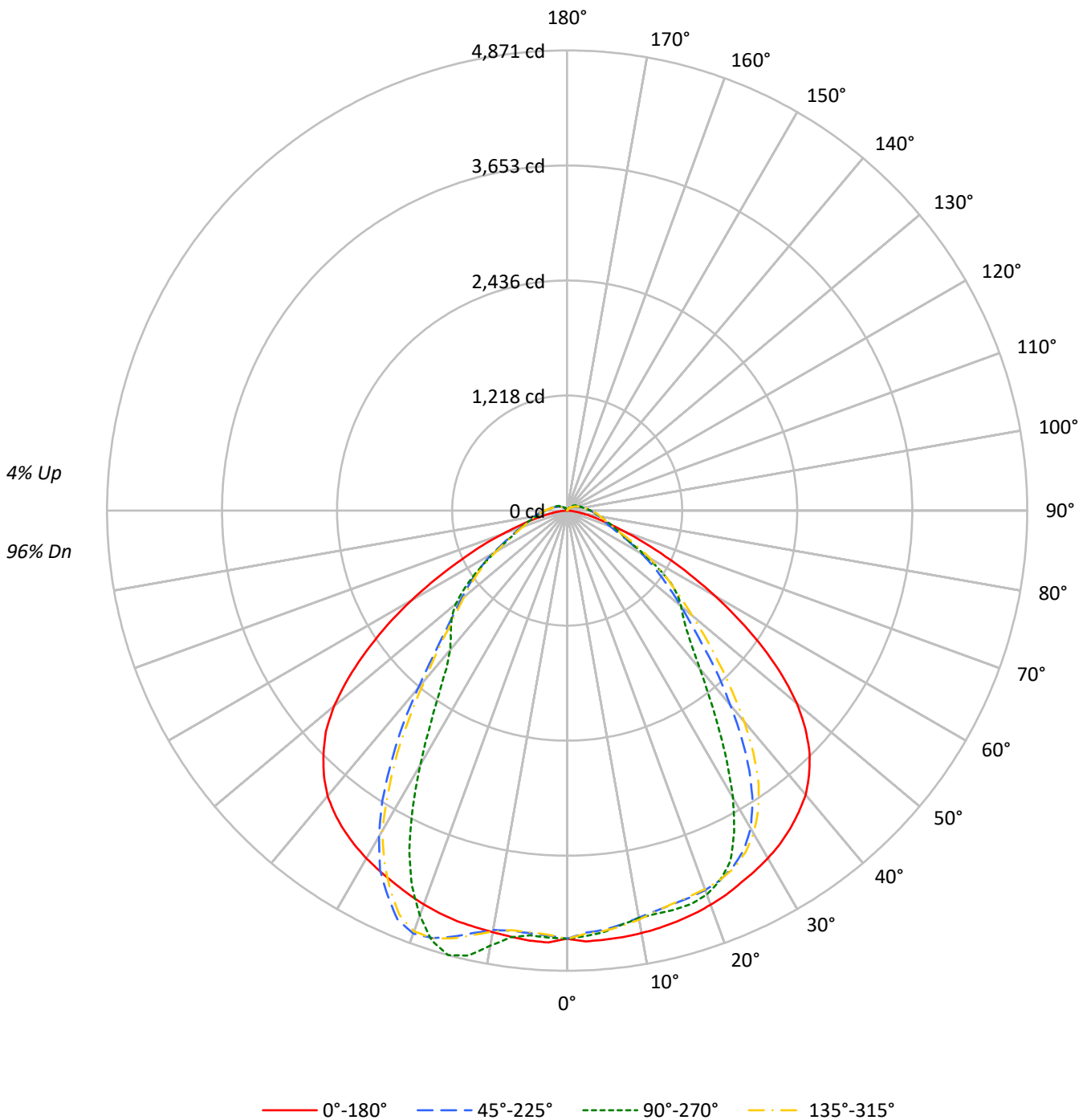
Lumens per Lamp: N/A  
Luminaire Lumens: 10803.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	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°	18310	18310	18310	18310
5°	18469	17584	18506	17722
10°	18579	16853	18541	17997
15°	18750	16628	18740	18513
20°	18985	16364	18964	17249
25°	19249	15524	19238	15000
30°	19644	13454	19655	11919
35°	20066	10880	20123	9207
40°	20449	8760	20534	7718
45°	20425	7420	20531	7225
50°	19601	6831	19876	6679
55°	17451	6140	17887	5582
60°	14218	4700	14973	4310
65°	10632	3595	11454	3410
70°	7291	3104	8219	2968
75°	4834	2801	5628	2648
80°	3202	2611	3753	2402
85°	1750	2605	2301	2379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.4	4.0
10°-20°	1280.7	11.9
20°-30°	1947.1	18.0
30°-40°	2088.7	19.3
40°-50°	1812.8	16.8
50°-60°	1343.5	12.4
60°-70°	769.8	7.1
70°-80°	426.3	3.9
80°-90°	259.6	2.4
90°-100°	168.8	1.6
100°-110°	113.0	1.0
110°-120°	76.3	0.7
120°-130°	46.8	0.4
130°-140°	24.6	0.2
140°-150°	11.2	0.1
150°-160°	3.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3658.2	33.9
0°-40°	5747.0	53.2
0°-60°	8903.2	82.4
0°-90°	10358.8	95.9
90°-120°	358.2	3.3
90°-150°	440.9	4.1
90°-180°	444.0	4.1
0°-180°	10803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4532	4532	4532	4532	4532	
5°	4560	4478	4569	4513	4560	435
15°	4501	4375	4499	4871	4501	1274
25°	4349	4092	4347	3953	4349	2010
35°	4113	2785	4124	2357	4113	2574
45°	3630	1786	3649	1739	3630	2779
55°	2533	1339	2596	1217	2533	2246
65°	1149	679	1238	644	1149	1159
75°	328	431	382	407	328	374
85°	44	297	58	272	44	59
90°	0	248	5	229	0	2
95°	2	204	0	194	2	2
105°	2	152	2	145	2	2
115°	2	124	2	112	2	2
125°	2	94	2	77	2	2
135°	2	58	2	49	2	2
145°	2	35	5	28	2	2
155°	5	16	5	14	5	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-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4564.4	4552.7	4548.0	4538.6	4545.6	4573.7	4555.0	4524.6	4526.9	4473.1	4501.2
5°	4559.7	4545.6	4538.6	4529.2	4533.9	4559.7	4540.9	4510.5	4508.2	4454.3	4480.1
7.5°	4552.7	4538.6	4526.9	4519.9	4522.2	4543.3	4519.9	4484.8	4477.7	4419.2	4442.6
10°	4540.9	4531.6	4515.2	4503.5	4501.2	4524.6	4487.1	4452.0	4435.6	4374.8	4398.2
12.5°	4524.6	4510.5	4494.1	4473.1	4470.7	4484.8	4454.3	4405.2	4388.8	4339.6	4365.4
15°	4501.2	4484.8	4466.0	4442.6	4430.9	4440.3	4402.8	4358.4	4356.0	4313.9	4349.0
17.5°	4475.4	4452.0	4430.9	4398.2	4381.8	4388.8	4358.4	4318.6	4323.3	4297.5	4337.3
20°	4440.3	4414.5	4381.8	4349.0	4325.6	4337.3	4316.2	4285.8	4292.8	4274.1	4309.2
22.5°	4400.5	4365.4	4325.6	4288.2	4269.4	4285.8	4269.4	4243.7	4246.0	4234.3	4255.4
25°	4349.0	4309.2	4262.4	4215.6	4206.2	4217.9	4208.6	4187.5	4178.1	4159.4	4168.8
27.5°	4302.2	4257.7	4199.2	4150.1	4133.7	4157.1	4136.0	4100.9	4075.1	4049.4	4030.7
30°	4248.4	4194.5	4129.0	4072.8	4058.8	4068.1	4037.7	3983.9	3916.0	3883.2	3831.7
32.5°	4189.8	4119.6	4037.7	3974.5	3965.1	3958.1	3901.9	3824.7	3719.4	3653.8	3574.2
35°	4112.6	4035.4	3937.0	3859.8	3845.8	3806.0	3714.7	3611.7	3475.9	3363.6	3227.8
37.5°	4026.0	3934.7	3831.7	3728.7	3688.9	3609.4	3480.6	3372.9	3167.0	3031.2	2867.4
40°	3927.7	3817.7	3691.3	3567.2	3501.7	3372.9	3225.5	3066.3	2867.4	2684.8	2546.7
42.5°	3791.9	3674.9	3525.1	3387.0	3274.6	3103.8	2930.5	2705.8	2523.3	2368.8	2228.3
45°	3630.4	3490.0	3316.8	3150.6	3007.8	2804.2	2600.5	2375.8	2223.7	2043.4	1947.5
47.5°	3422.1	3270.0	3085.0	2900.1	2712.9	2488.2	2275.2	2059.8	1907.7	1778.9	1708.7
50°	3176.3	3035.9	2832.2	2612.2	2406.2	2172.2	1959.2	1797.7	1650.2	1570.6	1516.8
52.5°	2872.0	2741.0	2532.6	2293.9	2094.9	1865.5	1671.3	1540.2	1434.8	1376.3	1357.6
55°	2532.6	2417.9	2212.0	1989.6	1785.9	1575.3	1427.8	1313.1	1245.2	1210.1	1212.5
57.5°	2169.8	2080.9	1886.6	1687.6	1495.7	1336.5	1203.1	1111.8	1060.3	1058.0	1065.0
60°	1807.0	1741.5	1572.9	1402.1	1233.5	1104.8	1006.5	943.3	910.5	912.9	910.5
62.5°	1460.6	1399.7	1278.0	1137.6	1004.2	917.6	828.6	802.9	774.8	772.4	772.4
65°	1149.3	1102.5	1004.2	903.5	802.9	746.7	702.2	671.8	650.7	646.0	648.4
67.5°	863.7	845.0	777.1	709.2	646.0	610.9	573.5	566.4	550.1	550.1	554.7
70°	643.7	629.6	592.2	552.4	526.7	503.2	484.5	484.5	482.2	479.8	491.5
72.5°	465.8	468.1	456.4	426.0	423.7	419.0	414.3	421.3	423.7	430.7	444.7
75°	327.7	334.7	334.7	330.0	339.4	351.1	358.1	369.8	383.9	393.2	409.6
77.5°	231.7	231.7	243.4	257.5	276.2	297.3	316.0	332.4	351.1	362.8	376.9
80°	149.8	156.8	175.6	201.3	227.0	255.1	280.9	301.9	320.7	339.4	348.8
82.5°	88.9	100.6	124.1	156.8	189.6	224.7	250.5	276.2	297.3	316.0	323.0
85°	44.5	60.9	88.9	124.1	159.2	196.6	229.4	252.8	276.2	292.6	301.9
87.5°	14.0	32.8	63.2	96.0	133.4	170.9	206.0	231.7	252.8	266.8	276.2
90°	0.0	16.4	44.5	79.6	114.7	152.1	184.9	213.0	234.1	245.8	252.8
92.5°	0.0	9.4	35.1	65.5	98.3	135.8	168.5	194.3	213.0	224.7	229.4
95°	2.3	7.0	25.7	53.8	86.6	121.7	152.1	175.6	194.3	206.0	208.3
97.5°	2.3	4.7	21.1	44.5	74.9	107.7	138.1	161.5	175.6	187.3	189.6
100°	2.3	4.7	16.4	39.8	65.5	96.0	124.1	145.1	161.5	170.9	173.2
102.5°	2.3	2.3	14.0	32.8	58.5	84.3	110.0	131.1	145.1	154.5	159.2
105°	2.3	2.3	11.7	28.1	51.5	74.9	98.3	119.4	131.1	140.4	145.1
107.5°	2.3	2.3	9.4	23.4	44.5	65.5	88.9	105.3	119.4	128.7	133.4
110°	2.3	2.3	7.0	21.1	37.5	58.5	77.2	93.6	107.7	117.0	121.7



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.3	2.3	7.0	18.7	32.8	51.5	67.9	84.3	96.0	105.3	112.4
115°	2.3	2.3	7.0	16.4	30.4	44.5	60.9	74.9	86.6	96.0	103.0
117.5°	2.3	2.3	7.0	14.0	25.7	39.8	53.8	67.9	77.2	86.6	93.6
120°	2.3	2.3	4.7	11.7	23.4	35.1	46.8	58.5	70.2	79.6	86.6
122.5°	2.3	2.3	4.7	11.7	18.7	30.4	42.1	51.5	63.2	70.2	77.2
125°	2.3	2.3	4.7	9.4	16.4	28.1	37.5	46.8	53.8	63.2	70.2
127.5°	2.3	2.3	4.7	9.4	14.0	23.4	32.8	42.1	49.2	56.2	60.9
130°	2.3	2.3	4.7	7.0	11.7	18.7	28.1	35.1	44.5	49.2	53.8
132.5°	2.3	2.3	2.3	7.0	9.4	14.0	21.1	30.4	37.5	44.5	46.8
135°	2.3	2.3	2.3	4.7	9.4	11.7	16.4	23.4	30.4	37.5	42.1
137.5°	2.3	2.3	2.3	4.7	7.0	11.7	14.0	18.7	25.7	30.4	37.5
140°	2.3	2.3	2.3	4.7	7.0	9.4	11.7	16.4	21.1	25.7	30.4
142.5°	2.3	2.3	2.3	4.7	4.7	7.0	9.4	14.0	16.4	21.1	25.7
145°	2.3	2.3	2.3	4.7	4.7	7.0	9.4	11.7	14.0	16.4	21.1
147.5°	2.3	2.3	2.3	4.7	4.7	4.7	7.0	9.4	11.7	14.0	16.4
150°	4.7	4.7	4.7	4.7	4.7	4.7	7.0	7.0	9.4	11.7	14.0
152.5°	4.7	4.7	4.7	4.7	4.7	4.7	7.0	7.0	7.0	9.4	11.7
155°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	7.0	7.0	9.4	9.4
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°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4491.8	4496.5	4524.6	4522.2	4517.5	4512.9	4512.9	4508.2	4512.9	4524.6	4519.9
5°	4468.4	4475.4	4496.5	4494.1	4489.5	4487.1	4484.8	4477.7	4482.4	4498.8	4494.1
7.5°	4426.3	4433.3	4452.0	4442.6	4435.6	4440.3	4428.6	4421.6	4430.9	4447.3	4445.0
10°	4381.8	4386.5	4409.9	4405.2	4393.5	4395.8	4384.1	4379.4	4391.1	4400.5	4402.8
12.5°	4351.4	4367.7	4388.8	4386.5	4384.1	4386.5	4374.8	4370.1	4377.1	4386.5	4384.1
15°	4344.3	4365.4	4388.8	4388.8	4391.1	4393.5	4381.8	4374.8	4381.8	4388.8	4386.5
17.5°	4337.3	4363.1	4384.1	4381.8	4384.1	4388.8	4370.1	4365.4	4374.8	4384.1	4379.4
20°	4313.9	4337.3	4351.4	4346.7	4346.7	4349.0	4325.6	4325.6	4339.6	4346.7	4349.0
22.5°	4248.4	4276.4	4276.4	4264.7	4264.7	4255.4	4248.4	4234.3	4250.7	4262.4	4271.8
25°	4150.1	4161.8	4147.7	4122.0	4107.9	4096.2	4063.4	4091.5	4091.5	4126.6	4138.3
27.5°	4012.0	3986.2	3946.4	3892.6	3880.9	3843.4	3822.4	3829.4	3841.1	3890.2	3927.7
30°	3784.9	3707.7	3639.8	3616.4	3564.9	3527.4	3490.0	3508.7	3529.8	3557.9	3635.1
32.5°	3485.3	3410.4	3300.4	3260.6	3206.8	3159.9	3115.5	3143.6	3181.0	3199.7	3284.0
35°	3141.2	3052.3	2951.6	2883.7	2827.6	2801.8	2745.6	2785.4	2825.2	2839.3	2911.8
37.5°	2776.1	2684.8	2595.8	2537.3	2483.5	2467.1	2429.6	2457.7	2488.2	2509.2	2570.1
40°	2429.6	2345.4	2277.5	2237.7	2200.3	2186.2	2172.2	2183.9	2207.3	2223.7	2270.5
42.5°	2132.4	2064.5	2017.7	1994.3	1968.5	1949.8	1952.1	1956.8	1968.5	2003.6	2024.7
45°	1872.6	1832.8	1802.3	1797.7	1781.3	1778.9	1776.6	1785.9	1793.0	1814.0	1830.4
47.5°	1664.2	1647.8	1640.8	1650.2	1657.2	1647.8	1652.5	1664.2	1678.3	1678.3	1675.9
50°	1500.4	1505.1	1514.4	1535.5	1549.5	1554.2	1558.9	1572.9	1575.3	1580.0	1572.9
52.5°	1367.0	1371.6	1397.4	1430.2	1446.5	1453.6	1462.9	1477.0	1477.0	1481.7	1472.3
55°	1231.2	1238.2	1264.0	1296.7	1310.8	1320.2	1329.5	1338.9	1345.9	1355.3	1348.2
57.5°	1081.4	1102.5	1118.9	1128.2	1137.6	1144.6	1151.6	1154.0	1168.0	1170.3	1182.1
60°	922.2	926.9	943.3	941.0	933.9	952.7	943.3	959.7	976.1	997.1	999.5
62.5°	770.1	772.4	784.1	779.5	788.8	786.5	793.5	793.5	805.2	814.6	826.3
65°	650.7	653.1	662.4	662.4	660.1	667.1	674.1	678.8	678.8	685.8	695.2
67.5°	561.8	568.8	578.2	582.8	587.5	587.5	594.5	596.9	601.6	603.9	608.6
70°	500.9	510.3	519.6	524.3	526.7	531.3	533.7	533.7	538.4	540.7	545.4
72.5°	456.4	465.8	472.8	472.8	477.5	479.8	479.8	482.2	484.5	489.2	493.9
75°	419.0	426.0	430.7	428.3	428.3	428.3	430.7	430.7	435.4	440.1	444.7
77.5°	383.9	390.9	390.9	386.2	386.2	386.2	386.2	388.6	390.9	395.6	400.3
80°	358.1	358.1	355.8	355.8	351.1	348.8	348.8	351.1	351.1	355.8	362.8
82.5°	330.0	330.0	327.7	325.4	323.0	320.7	320.7	323.0	325.4	327.7	332.4
85°	304.3	304.3	299.6	299.6	297.3	297.3	297.3	297.3	299.6	301.9	306.6
87.5°	278.5	276.2	273.9	271.5	271.5	271.5	271.5	271.5	273.9	278.5	280.9
90°	252.8	250.5	248.1	248.1	245.8	245.8	248.1	248.1	250.5	252.8	255.1
92.5°	229.4	227.0	224.7	224.7	222.4	222.4	224.7	222.4	227.0	227.0	229.4
95°	208.3	206.0	203.6	203.6	203.6	203.6	203.6	203.6	206.0	206.0	208.3
97.5°	189.6	187.3	184.9	184.9	187.3	184.9	187.3	187.3	187.3	189.6	191.9
100°	173.2	170.9	170.9	173.2	170.9	170.9	173.2	173.2	173.2	173.2	175.6
102.5°	159.2	159.2	159.2	159.2	159.2	159.2	161.5	161.5	161.5	161.5	163.8
105°	145.1	147.5	147.5	147.5	149.8	149.8	149.8	152.1	152.1	152.1	152.1
107.5°	135.8	138.1	138.1	140.4	140.4	142.8	142.8	142.8	142.8	145.1	145.1
110°	126.4	128.7	131.1	133.4	133.4	135.8	135.8	135.8	135.8	135.8	135.8





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	117.0	119.4	121.7	126.4	128.7	128.7	128.7	128.7	131.1	131.1	128.7
115°	107.7	112.4	114.7	119.4	121.7	121.7	124.1	124.1	124.1	124.1	121.7
117.5°	98.3	105.3	107.7	112.4	114.7	114.7	117.0	117.0	117.0	117.0	114.7
120°	91.3	96.0	100.6	103.0	105.3	107.7	107.7	110.0	110.0	110.0	107.7
122.5°	84.3	88.9	93.6	96.0	98.3	100.6	100.6	100.6	100.6	100.6	100.6
125°	74.9	79.6	84.3	86.6	88.9	91.3	91.3	93.6	93.6	93.6	91.3
127.5°	67.9	72.6	74.9	79.6	81.9	81.9	84.3	84.3	84.3	84.3	81.9
130°	58.5	63.2	67.9	70.2	72.6	72.6	74.9	74.9	74.9	74.9	74.9
132.5°	51.5	56.2	58.5	63.2	63.2	65.5	65.5	67.9	67.9	67.9	65.5
135°	46.8	49.2	51.5	56.2	56.2	58.5	58.5	58.5	58.5	58.5	58.5
137.5°	42.1	44.5	46.8	49.2	49.2	51.5	51.5	51.5	51.5	53.8	51.5
140°	35.1	39.8	42.1	42.1	44.5	44.5	44.5	46.8	46.8	46.8	44.5
142.5°	30.4	32.8	35.1	37.5	39.8	39.8	39.8	39.8	42.1	39.8	39.8
145°	23.4	28.1	30.4	32.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1
147.5°	18.7	21.1	25.7	28.1	28.1	30.4	30.4	30.4	30.4	30.4	30.4
150°	16.4	16.4	21.1	23.4	25.7	25.7	25.7	25.7	25.7	25.7	25.7
152.5°	11.7	14.0	16.4	18.7	21.1	21.1	21.1	21.1	21.1	21.1	21.1
155°	11.7	11.7	14.0	14.0	16.4	16.4	16.4	16.4	18.7	16.4	16.4
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4512.9	4510.5	4519.9	4510.5	4463.7	4482.4	4475.4	4501.2	4503.5	4510.5	4533.9
5°	4489.5	4489.5	4501.2	4491.8	4447.3	4466.0	4463.7	4489.5	4494.1	4498.8	4524.6
7.5°	4442.6	4445.0	4461.4	4454.3	4407.5	4435.6	4433.3	4463.7	4473.1	4482.4	4505.8
10°	4398.2	4395.8	4414.5	4407.5	4363.1	4395.8	4393.5	4423.9	4438.0	4454.3	4482.4
12.5°	4374.8	4367.7	4374.8	4367.7	4318.6	4344.3	4346.7	4381.8	4398.2	4419.2	4452.0
15°	4374.8	4363.1	4363.1	4349.0	4292.8	4309.2	4311.6	4335.0	4356.0	4377.1	4416.9
17.5°	4370.1	4358.4	4356.0	4344.3	4283.5	4283.5	4281.1	4297.5	4309.2	4330.3	4372.4
20°	4344.3	4339.6	4337.3	4330.3	4274.1	4264.7	4260.1	4260.1	4267.1	4274.1	4316.2
22.5°	4276.4	4281.1	4285.8	4290.5	4246.0	4229.6	4232.0	4227.3	4220.3	4220.3	4255.4
25°	4150.1	4173.5	4192.2	4213.3	4187.5	4175.8	4189.8	4182.8	4171.1	4161.8	4192.2
27.5°	3948.8	3997.9	4037.7	4089.2	4091.5	4082.2	4119.6	4114.9	4112.6	4098.6	4122.0
30°	3670.2	3747.5	3801.3	3876.2	3939.4	3948.8	4012.0	4021.3	4030.7	4023.7	4047.1
32.5°	3333.1	3438.5	3529.8	3646.8	3707.7	3761.5	3850.4	3887.9	3925.3	3937.0	3962.8
35°	2965.7	3085.0	3192.7	3321.4	3417.4	3534.4	3642.1	3698.3	3782.6	3815.3	3852.8
37.5°	2616.9	2729.2	2834.6	2963.3	3117.8	3239.5	3372.9	3499.3	3614.0	3660.8	3717.0
40°	2307.9	2399.2	2499.9	2612.2	2752.7	2911.8	3056.9	3232.5	3368.3	3461.9	3543.8
42.5°	2073.9	2118.3	2204.9	2305.6	2417.9	2579.4	2726.9	2923.5	3087.4	3220.8	3356.6
45°	1865.5	1886.6	1949.8	2003.6	2118.3	2261.1	2417.9	2609.9	2780.7	2951.6	3115.5
47.5°	1687.6	1713.4	1743.8	1776.6	1858.5	1977.9	2113.6	2286.9	2457.7	2656.7	2843.9
50°	1568.3	1575.3	1580.0	1594.0	1643.2	1725.1	1835.1	1982.6	2146.4	2359.4	2558.4
52.5°	1462.9	1462.9	1448.9	1441.9	1460.6	1512.1	1575.3	1680.6	1849.1	2045.8	2256.4
55°	1350.6	1329.5	1324.8	1301.4	1306.1	1329.5	1359.9	1441.9	1580.0	1748.5	1952.1
57.5°	1193.8	1184.4	1184.4	1175.0	1156.3	1168.0	1175.0	1233.5	1331.9	1477.0	1654.9
60°	1013.5	1008.8	1020.5	1022.9	1006.5	1013.5	1011.2	1046.3	1116.5	1233.5	1381.0
62.5°	833.3	854.4	856.7	866.1	856.7	854.4	866.1	896.5	931.6	1020.5	1135.2
65°	699.9	711.6	713.9	725.6	720.9	720.9	730.3	753.7	774.8	835.6	924.6
67.5°	613.3	608.6	610.9	617.9	610.9	608.6	615.6	629.6	646.0	683.5	746.7
70°	545.4	540.7	540.7	540.7	531.3	524.3	526.7	531.3	538.4	559.4	599.2
72.5°	493.9	493.9	486.9	479.8	472.8	468.1	463.5	458.8	456.4	463.5	484.5
75°	447.1	449.4	447.1	440.1	430.7	421.3	412.0	402.6	390.9	386.2	388.6
77.5°	404.9	407.3	409.6	407.3	397.9	386.2	372.2	358.1	341.7	325.4	316.0
80°	367.5	372.2	374.5	372.2	365.1	355.8	339.4	323.0	299.6	278.5	255.1
82.5°	334.7	341.7	344.1	344.1	339.4	330.0	311.3	292.6	266.8	238.8	208.3
85°	309.0	313.7	318.3	318.3	316.0	306.6	287.9	266.8	241.1	208.3	175.6
87.5°	283.2	285.6	290.2	294.9	290.2	280.9	264.5	241.1	215.3	182.6	145.1
90°	257.5	259.8	264.5	269.2	266.8	257.5	243.4	222.4	194.3	159.2	121.7
92.5°	231.7	236.4	238.8	241.1	243.4	236.4	224.7	203.6	175.6	140.4	105.3
95°	213.0	213.0	217.7	220.0	222.4	215.3	206.0	184.9	159.2	126.4	91.3
97.5°	194.3	194.3	199.0	199.0	201.3	196.6	187.3	168.5	142.8	112.4	77.2
100°	175.6	177.9	180.2	182.6	182.6	180.2	170.9	152.1	128.7	100.6	67.9
102.5°	163.8	163.8	166.2	166.2	168.5	163.8	154.5	138.1	114.7	88.9	58.5
105°	152.1	152.1	154.5	154.5	152.1	147.5	138.1	124.1	103.0	77.2	51.5
107.5°	142.8	142.8	142.8	142.8	140.4	135.8	126.4	110.0	91.3	70.2	46.8
110°	135.8	133.4	133.4	131.1	128.7	121.7	112.4	98.3	81.9	60.9	39.8



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	128.7	126.4	124.1	121.7	117.0	110.0	100.6	88.9	72.6	53.8	35.1
115°	121.7	119.4	117.0	112.4	107.7	100.6	91.3	79.6	63.2	46.8	30.4
117.5°	114.7	112.4	107.7	103.0	98.3	91.3	81.9	70.2	56.2	42.1	28.1
120°	105.3	103.0	100.6	96.0	91.3	81.9	72.6	63.2	49.2	37.5	23.4
122.5°	98.3	96.0	91.3	88.9	81.9	74.9	65.5	56.2	44.5	32.8	21.1
125°	88.9	86.6	84.3	79.6	74.9	65.5	58.5	49.2	39.8	28.1	16.4
127.5°	81.9	79.6	74.9	70.2	65.5	58.5	51.5	44.5	35.1	23.4	16.4
130°	72.6	70.2	67.9	63.2	58.5	51.5	46.8	37.5	30.4	21.1	14.0
132.5°	63.2	63.2	60.9	56.2	51.5	46.8	39.8	32.8	25.7	18.7	11.7
135°	58.5	56.2	53.8	49.2	46.8	39.8	35.1	28.1	21.1	16.4	9.4
137.5°	51.5	49.2	46.8	44.5	39.8	35.1	30.4	23.4	18.7	14.0	9.4
140°	44.5	42.1	42.1	37.5	35.1	30.4	25.7	21.1	16.4	11.7	7.0
142.5°	39.8	37.5	35.1	32.8	30.4	25.7	21.1	16.4	14.0	9.4	7.0
145°	35.1	32.8	30.4	28.1	25.7	21.1	18.7	14.0	11.7	9.4	7.0
147.5°	28.1	28.1	25.7	23.4	21.1	18.7	16.4	14.0	9.4	7.0	4.7
150°	23.4	23.4	21.1	18.7	18.7	16.4	14.0	11.7	9.4	7.0	4.7
152.5°	21.1	18.7	18.7	16.4	16.4	14.0	11.7	9.4	7.0	7.0	4.7
155°	16.4	16.4	16.4	14.0	14.0	11.7	9.4	9.4	7.0	4.7	4.7
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4538.6	4510.5	4533.9	4576.1	4571.4	4566.7	4562.0	4571.4	4601.8	4585.4	4559.7
5°	4531.6	4503.5	4529.2	4569.0	4566.7	4559.7	4555.0	4564.4	4594.8	4578.4	4550.3
7.5°	4517.5	4491.8	4510.5	4550.3	4550.3	4545.6	4540.9	4550.3	4578.4	4564.4	4536.3
10°	4494.1	4475.4	4494.1	4531.6	4533.9	4524.6	4519.9	4531.6	4559.7	4552.7	4529.2
12.5°	4475.4	4456.7	4477.7	4515.2	4517.5	4508.2	4501.2	4515.2	4552.7	4557.3	4550.3
15°	4449.7	4433.3	4459.0	4498.8	4498.8	4491.8	4491.8	4510.5	4562.0	4583.1	4594.8
17.5°	4412.2	4400.5	4430.9	4470.7	4473.1	4468.4	4470.7	4508.2	4576.1	4627.6	4660.3
20°	4365.4	4360.7	4393.5	4435.6	4442.6	4445.0	4456.7	4512.9	4606.5	4676.7	4709.5
22.5°	4309.2	4311.6	4349.0	4393.5	4402.8	4409.9	4433.3	4512.9	4629.9	4704.8	4718.8
25°	4246.0	4253.0	4292.8	4346.7	4358.4	4372.4	4412.2	4515.2	4636.9	4686.1	4662.7
27.5°	4178.1	4192.2	4243.7	4299.9	4313.9	4337.3	4388.8	4501.2	4604.1	4606.5	4519.9
30°	4107.9	4124.3	4185.2	4250.7	4274.1	4297.5	4360.7	4468.4	4524.6	4449.7	4297.5
32.5°	4028.3	4051.7	4112.6	4192.2	4220.3	4250.7	4313.9	4405.2	4384.1	4222.6	4004.9
35°	3927.7	3960.5	4030.7	4124.3	4150.1	4189.8	4234.3	4255.4	4161.8	3932.4	3686.6
37.5°	3803.6	3852.8	3934.7	4042.4	4070.5	4096.2	4107.9	4049.4	3862.1	3614.0	3358.9
40°	3660.8	3735.7	3824.7	3944.1	3972.2	3972.2	3930.0	3806.0	3569.6	3244.2	2961.0
42.5°	3487.6	3578.9	3691.3	3810.7	3838.7	3806.0	3705.3	3487.6	3218.5	2855.6	2556.0
45°	3277.0	3398.7	3525.1	3649.1	3663.2	3590.6	3410.4	3134.2	2801.8	2464.8	2179.2
47.5°	3026.5	3185.7	3323.8	3464.2	3445.5	3323.8	3082.7	2769.0	2417.9	2099.6	1870.2
50°	2745.6	2932.9	3087.4	3220.8	3181.0	3012.5	2729.2	2401.6	2052.8	1781.3	1591.7
52.5°	2446.0	2661.4	2815.9	2923.5	2869.7	2668.4	2357.1	2043.4	1757.9	1509.7	1383.4
55°	2134.7	2352.4	2511.6	2595.8	2525.6	2307.9	2001.3	1715.7	1446.5	1285.0	1210.1
57.5°	1832.8	2036.4	2186.2	2254.1	2165.1	1947.5	1664.2	1423.1	1228.9	1093.1	1055.7
60°	1542.5	1708.7	1851.5	1903.0	1807.0	1605.7	1362.3	1170.3	1027.6	933.9	915.2
62.5°	1273.3	1409.1	1521.5	1561.2	1467.6	1310.8	1100.1	957.3	856.7	809.9	786.5
65°	1051.0	1130.6	1245.2	1238.2	1182.1	1036.9	882.4	781.8	716.3	685.8	671.8
67.5°	826.3	898.8	971.4	980.8	910.5	809.9	709.2	636.7	601.6	585.2	578.2
70°	639.0	692.8	737.3	725.6	688.2	625.0	561.8	522.0	507.9	500.9	500.9
72.5°	496.2	524.3	545.4	531.3	507.9	475.2	444.7	428.3	430.7	435.4	440.1
75°	383.9	390.9	395.6	381.5	376.9	355.8	353.4	355.8	369.8	383.9	390.9
77.5°	294.9	285.6	278.5	264.5	266.8	264.5	276.2	294.9	316.0	337.1	355.8
80°	227.0	206.0	189.6	175.6	182.6	194.3	217.7	245.8	273.9	297.3	320.7
82.5°	175.6	145.1	121.7	107.7	121.7	140.4	170.9	206.0	238.8	264.5	290.2
85°	135.8	100.6	72.6	58.5	72.6	100.6	133.4	173.2	208.3	236.4	262.2
87.5°	105.3	72.6	39.8	23.4	39.8	70.2	107.7	145.1	180.2	213.0	238.8
90°	84.3	49.2	18.7	4.7	21.1	49.2	84.3	121.7	156.8	191.9	217.7
92.5°	67.9	35.1	9.4	0.0	11.7	37.5	70.2	105.3	140.4	173.2	199.0
95°	56.2	28.1	7.0	0.0	9.4	28.1	56.2	91.3	124.1	156.8	177.9
97.5°	46.8	21.1	4.7	0.0	4.7	23.4	46.8	77.2	110.0	140.4	161.5
100°	39.8	18.7	4.7	0.0	4.7	18.7	39.8	67.9	96.0	124.1	145.1
102.5°	32.8	14.0	2.3	2.3	2.3	14.0	35.1	58.5	84.3	110.0	131.1
105°	30.4	11.7	2.3	2.3	2.3	11.7	30.4	51.5	74.9	98.3	117.0
107.5°	25.7	9.4	2.3	2.3	2.3	9.4	25.7	44.5	67.9	88.9	105.3
110°	21.1	9.4	2.3	2.3	2.3	9.4	21.1	39.8	58.5	77.2	93.6



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	18.7	7.0	2.3	2.3	2.3	7.0	18.7	35.1	51.5	70.2	84.3
115°	16.4	7.0	2.3	2.3	2.3	7.0	16.4	30.4	44.5	60.9	74.9
117.5°	14.0	7.0	2.3	2.3	2.3	4.7	14.0	25.7	39.8	53.8	67.9
120°	11.7	4.7	2.3	2.3	2.3	4.7	11.7	23.4	35.1	46.8	58.5
122.5°	11.7	4.7	2.3	2.3	2.3	4.7	9.4	18.7	30.4	39.8	51.5
125°	9.4	4.7	2.3	2.3	2.3	2.3	9.4	16.4	25.7	35.1	44.5
127.5°	9.4	4.7	2.3	2.3	2.3	2.3	7.0	14.0	21.1	30.4	39.8
130°	7.0	4.7	2.3	2.3	2.3	2.3	4.7	11.7	18.7	25.7	32.8
132.5°	7.0	4.7	2.3	2.3	2.3	2.3	4.7	9.4	14.0	21.1	28.1
135°	7.0	2.3	2.3	2.3	2.3	2.3	2.3	7.0	11.7	16.4	21.1
137.5°	4.7	2.3	2.3	2.3	2.3	2.3	2.3	4.7	9.4	11.7	18.7
140°	4.7	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	9.4	14.0
142.5°	4.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	11.7
145°	4.7	2.3	2.3	4.7	4.7	2.3	2.3	4.7	4.7	7.0	9.4
147.5°	4.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	4.7	7.0
150°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	7.0
152.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
155°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4555.0	4501.2	4529.2	4519.9	4529.2	4552.7	4550.3	4543.3	4548.0	4536.3	4524.6
5°	4545.6	4491.8	4519.9	4508.2	4519.9	4543.3	4538.6	4531.6	4538.6	4524.6	4512.9
7.5°	4533.9	4484.8	4517.5	4515.2	4536.3	4566.7	4569.0	4569.0	4585.4	4564.4	4555.0
10°	4533.9	4508.2	4552.7	4569.0	4622.9	4662.7	4667.3	4676.7	4704.8	4700.1	4676.7
12.5°	4583.1	4578.4	4643.9	4683.7	4732.9	4789.1	4819.5	4828.9	4847.6	4833.5	4824.2
15°	4646.3	4669.7	4742.2	4786.7	4840.6	4882.7	4889.7	4894.4	4908.4	4887.4	4871.0
17.5°	4730.5	4744.6	4803.1	4821.8	4856.9	4864.0	4854.6	4831.2	4831.2	4784.4	4770.3
20°	4770.3	4763.3	4786.7	4756.3	4742.2	4700.1	4660.3	4615.8	4613.5	4564.4	4559.7
22.5°	4735.2	4688.4	4639.3	4564.4	4531.6	4470.7	4416.9	4391.1	4374.8	4311.6	4295.2
25°	4611.2	4496.5	4423.9	4335.0	4255.4	4185.2	4133.7	4079.8	4028.3	3976.8	3953.4
27.5°	4395.8	4288.2	4171.1	4047.1	3937.0	3829.4	3742.8	3688.9	3639.8	3571.9	3536.8
30°	4131.3	3981.5	3852.8	3733.4	3553.2	3422.1	3349.5	3241.9	3204.4	3174.0	3108.4
32.5°	3820.0	3639.8	3464.2	3302.7	3117.8	2996.1	2900.1	2820.5	2797.1	2717.5	2698.8
35°	3475.9	3239.5	3040.6	2881.4	2748.0	2600.5	2520.9	2467.1	2420.3	2366.4	2357.1
37.5°	3071.0	2858.0	2633.3	2492.8	2387.5	2261.1	2200.3	2162.8	2141.7	2101.9	2094.9
40°	2663.7	2450.7	2296.2	2155.8	2090.2	2022.4	1977.9	1961.5	1952.1	1938.1	1924.1
42.5°	2293.9	2106.6	1996.6	1903.0	1874.9	1842.1	1830.4	1839.8	1830.4	1825.7	1823.4
45°	1980.2	1837.4	1760.2	1732.1	1725.1	1715.7	1725.1	1741.5	1743.8	1739.1	1739.1
47.5°	1694.7	1626.8	1594.0	1598.7	1610.4	1617.4	1633.8	1654.9	1659.6	1647.8	1652.5
50°	1507.4	1467.6	1460.6	1479.3	1505.1	1514.4	1533.2	1549.5	1547.2	1542.5	1537.8
52.5°	1331.9	1320.2	1338.9	1357.6	1385.7	1390.4	1397.4	1404.4	1402.1	1392.7	1388.0
55°	1184.4	1193.8	1210.1	1217.2	1238.2	1235.9	1238.2	1238.2	1228.9	1224.2	1217.2
57.5°	1051.0	1053.3	1062.7	1065.0	1076.7	1072.0	1069.7	1065.0	1051.0	1048.6	1041.6
60°	915.2	910.5	931.6	915.2	924.6	915.2	912.9	901.2	887.1	884.8	880.1
62.5°	786.5	777.1	791.2	784.1	788.8	779.5	774.8	760.7	749.0	746.7	744.3
65°	671.8	667.1	681.1	678.8	683.5	671.8	667.1	657.7	648.4	646.0	643.7
67.5°	575.8	587.5	594.5	594.5	599.2	596.9	585.2	582.8	580.5	571.1	571.1
70°	505.6	512.6	526.7	529.0	526.7	531.3	522.0	519.6	517.3	512.6	510.3
72.5°	449.4	458.8	472.8	475.2	472.8	472.8	468.1	465.8	465.8	458.8	458.8
75°	404.9	416.6	428.3	428.3	428.3	423.7	419.0	419.0	414.3	412.0	407.3
77.5°	367.5	381.5	390.9	388.6	386.2	381.5	381.5	374.5	367.5	367.5	362.8
80°	339.4	348.8	355.8	353.4	351.1	344.1	341.7	334.7	330.0	323.0	323.0
82.5°	309.0	320.7	325.4	323.0	318.3	311.3	309.0	304.3	299.6	297.3	292.6
85°	283.2	294.9	297.3	292.6	287.9	283.2	280.9	278.5	276.2	271.5	271.5
87.5°	257.5	269.2	269.2	266.8	262.2	259.8	257.5	255.1	252.8	250.5	248.1
90°	236.4	245.8	245.8	243.4	241.1	238.8	236.4	234.1	231.7	229.4	229.4
92.5°	215.3	224.7	224.7	222.4	220.0	217.7	217.7	215.3	213.0	210.7	208.3
95°	196.6	206.0	206.0	206.0	203.6	201.3	201.3	199.0	196.6	196.6	194.3
97.5°	177.9	187.3	187.3	187.3	184.9	182.6	182.6	180.2	180.2	180.2	177.9
100°	161.5	168.5	170.9	170.9	168.5	168.5	168.5	166.2	166.2	166.2	163.8
102.5°	145.1	152.1	156.8	156.8	156.8	154.5	154.5	154.5	154.5	154.5	152.1
105°	131.1	138.1	142.8	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1
107.5°	119.4	126.4	131.1	133.4	135.8	135.8	138.1	138.1	138.1	138.1	138.1
110°	107.7	114.7	121.7	124.1	126.4	128.7	128.7	131.1	128.7	128.7	128.7



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	96.0	105.3	110.0	114.7	117.0	119.4	121.7	121.7	121.7	121.7	121.7
115°	86.6	96.0	100.6	105.3	110.0	112.4	112.4	114.7	114.7	114.7	112.4
117.5°	77.2	86.6	91.3	96.0	98.3	103.0	105.3	105.3	105.3	105.3	103.0
120°	70.2	77.2	81.9	86.6	91.3	93.6	96.0	96.0	96.0	96.0	96.0
122.5°	60.9	67.9	74.9	79.6	81.9	84.3	86.6	86.6	86.6	86.6	86.6
125°	53.8	60.9	65.5	70.2	72.6	77.2	77.2	77.2	77.2	77.2	77.2
127.5°	46.8	53.8	58.5	63.2	65.5	67.9	70.2	70.2	70.2	70.2	70.2
130°	39.8	46.8	51.5	56.2	58.5	60.9	60.9	63.2	63.2	63.2	63.2
132.5°	35.1	39.8	44.5	49.2	51.5	53.8	53.8	56.2	56.2	56.2	56.2
135°	28.1	35.1	37.5	42.1	44.5	46.8	46.8	49.2	49.2	49.2	49.2
137.5°	23.4	28.1	32.8	37.5	39.8	39.8	42.1	42.1	44.5	44.5	44.5
140°	18.7	21.1	28.1	30.4	32.8	35.1	37.5	37.5	37.5	37.5	37.5
142.5°	14.0	18.7	21.1	25.7	28.1	30.4	32.8	32.8	32.8	32.8	32.8
145°	11.7	14.0	16.4	21.1	23.4	25.7	28.1	28.1	28.1	28.1	28.1
147.5°	9.4	11.7	14.0	16.4	18.7	21.1	23.4	23.4	23.4	23.4	23.4
150°	7.0	9.4	11.7	11.7	14.0	16.4	18.7	21.1	21.1	21.1	21.1
152.5°	7.0	7.0	9.4	9.4	11.7	14.0	16.4	16.4	16.4	16.4	16.4
155°	4.7	7.0	7.0	7.0	9.4	9.4	11.7	14.0	14.0	14.0	14.0
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4531.6	4540.9	4536.3	4529.2	4526.9	4538.6	4526.9	4473.1	4494.1	4496.5	4512.9
5°	4524.6	4531.6	4526.9	4522.2	4515.2	4529.2	4515.2	4459.0	4480.1	4482.4	4498.8
7.5°	4571.4	4573.7	4573.7	4562.0	4543.3	4550.3	4531.6	4468.4	4480.1	4480.1	4491.8
10°	4688.4	4693.1	4700.1	4669.7	4646.3	4627.6	4601.8	4524.6	4522.2	4503.5	4503.5
12.5°	4840.6	4828.9	4817.1	4803.1	4784.4	4761.0	4723.5	4632.2	4601.8	4571.4	4540.9
15°	4885.0	4880.3	4878.0	4871.0	4859.3	4852.3	4824.2	4732.9	4688.4	4651.0	4597.1
17.5°	4768.0	4777.4	4807.8	4810.1	4824.2	4852.3	4847.6	4784.4	4744.6	4728.2	4662.7
20°	4557.3	4559.7	4597.1	4613.5	4674.4	4721.2	4756.3	4749.3	4739.9	4758.6	4709.5
22.5°	4304.5	4320.9	4360.7	4386.5	4445.0	4498.8	4555.0	4585.4	4634.6	4711.8	4702.5
25°	3960.5	3981.5	4037.7	4079.8	4161.8	4243.7	4318.6	4372.4	4430.9	4578.4	4627.6
27.5°	3548.5	3581.3	3653.8	3696.0	3810.7	3894.9	4002.6	4107.9	4189.8	4358.4	4459.0
30°	3115.5	3143.6	3220.8	3279.3	3377.6	3492.3	3628.1	3777.9	3913.6	4084.5	4210.9
32.5°	2710.5	2741.0	2804.2	2855.6	2965.7	3061.6	3211.4	3396.3	3522.7	3759.2	3927.7
35°	2357.1	2385.2	2429.6	2474.1	2565.4	2663.7	2792.4	2972.7	3134.2	3380.0	3593.0
37.5°	2109.0	2113.6	2139.4	2165.1	2233.0	2307.9	2408.6	2567.7	2717.5	2982.0	3216.1
40°	1931.1	1931.1	1945.1	1952.1	1982.6	2027.0	2090.2	2214.3	2338.4	2539.7	2825.2
42.5°	1821.1	1816.4	1816.4	1818.7	1816.4	1837.4	1874.9	1933.4	2043.4	2209.6	2432.0
45°	1739.1	1729.8	1722.8	1706.4	1697.0	1697.0	1699.3	1720.4	1783.6	1891.3	2071.5
47.5°	1647.8	1645.5	1633.8	1615.1	1598.7	1587.0	1568.3	1561.2	1580.0	1640.8	1762.5
50°	1542.5	1530.8	1519.1	1505.1	1486.3	1474.6	1439.5	1441.9	1425.5	1453.6	1516.8
52.5°	1388.0	1378.7	1374.0	1362.3	1355.3	1350.6	1322.5	1294.4	1287.4	1292.1	1315.5
55°	1217.2	1221.8	1203.1	1212.5	1210.1	1189.1	1177.4	1156.3	1149.3	1146.9	1158.6
57.5°	1039.3	1043.9	1032.2	1041.6	1041.6	1029.9	1022.9	1022.9	1006.5	992.5	1008.8
60°	877.8	868.4	875.4	887.1	887.1	880.1	875.4	875.4	863.7	859.0	870.7
62.5°	746.7	737.3	744.3	756.0	758.4	753.7	749.0	749.0	735.0	735.0	744.3
65°	646.0	648.4	646.0	655.4	655.4	657.7	653.1	648.4	632.0	639.0	636.7
67.5°	573.5	571.1	571.1	580.5	578.2	582.8	578.2	571.1	559.4	550.1	547.7
70°	512.6	510.3	510.3	515.0	517.3	517.3	515.0	510.3	493.9	484.5	477.5
72.5°	458.8	456.4	458.8	461.1	463.5	465.8	463.5	458.8	444.7	433.0	421.3
75°	409.6	407.3	414.3	414.3	416.6	416.6	419.0	416.6	404.9	390.9	376.9
77.5°	360.5	362.8	369.8	372.2	376.9	379.2	381.5	381.5	369.8	358.1	339.4
80°	320.7	325.4	330.0	332.4	337.1	344.1	346.4	348.8	339.4	327.7	306.6
82.5°	292.6	294.9	299.6	301.9	309.0	311.3	313.7	318.3	313.7	301.9	278.5
85°	269.2	271.5	276.2	276.2	280.9	285.6	287.9	290.2	287.9	276.2	252.8
87.5°	248.1	250.5	252.8	255.1	257.5	259.8	262.2	264.5	262.2	250.5	229.4
90°	229.4	229.4	231.7	231.7	234.1	236.4	241.1	241.1	238.8	229.4	208.3
92.5°	208.3	210.7	210.7	213.0	215.3	217.7	220.0	220.0	217.7	208.3	189.6
95°	194.3	194.3	196.6	196.6	199.0	199.0	201.3	201.3	199.0	189.6	170.9
97.5°	177.9	177.9	177.9	177.9	180.2	180.2	182.6	182.6	180.2	170.9	154.5
100°	163.8	163.8	163.8	163.8	163.8	166.2	166.2	166.2	163.8	154.5	138.1
102.5°	152.1	152.1	152.1	152.1	152.1	152.1	152.1	152.1	147.5	140.4	124.1
105°	145.1	145.1	145.1	142.8	142.8	142.8	140.4	140.4	133.4	126.4	112.4
107.5°	135.8	135.8	135.8	133.4	133.4	131.1	128.7	128.7	121.7	114.7	100.6
110°	128.7	128.7	128.7	126.4	124.1	121.7	119.4	117.0	110.0	100.6	88.9





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.7	121.7	119.4	119.4	117.0	114.7	110.0	107.7	100.6	91.3	79.6
115°	112.4	112.4	112.4	110.0	107.7	105.3	103.0	98.3	91.3	81.9	70.2
117.5°	103.0	103.0	103.0	100.6	98.3	96.0	93.6	88.9	81.9	72.6	63.2
120°	93.6	93.6	93.6	91.3	88.9	86.6	84.3	79.6	72.6	65.5	53.8
122.5°	86.6	86.6	84.3	81.9	79.6	77.2	74.9	70.2	65.5	56.2	46.8
125°	77.2	77.2	74.9	74.9	72.6	70.2	67.9	63.2	56.2	49.2	42.1
127.5°	70.2	67.9	67.9	67.9	65.5	63.2	58.5	56.2	49.2	42.1	35.1
130°	60.9	60.9	60.9	58.5	58.5	56.2	51.5	46.8	42.1	37.5	30.4
132.5°	53.8	53.8	53.8	53.8	51.5	49.2	44.5	42.1	37.5	30.4	25.7
135°	49.2	49.2	46.8	46.8	44.5	42.1	39.8	35.1	30.4	25.7	21.1
137.5°	42.1	42.1	42.1	39.8	39.8	37.5	32.8	30.4	28.1	23.4	18.7
140°	37.5	37.5	35.1	35.1	32.8	32.8	30.4	25.7	23.4	18.7	16.4
142.5°	32.8	32.8	30.4	30.4	28.1	28.1	25.7	23.4	18.7	16.4	11.7
145°	28.1	28.1	25.7	25.7	25.7	23.4	21.1	18.7	16.4	14.0	11.7
147.5°	23.4	23.4	23.4	21.1	21.1	18.7	18.7	16.4	14.0	11.7	9.4
150°	21.1	21.1	18.7	18.7	18.7	16.4	14.0	14.0	11.7	9.4	7.0
152.5°	16.4	16.4	16.4	16.4	14.0	14.0	11.7	11.7	9.4	7.0	7.0
155°	14.0	14.0	14.0	11.7	11.7	11.7	9.4	9.4	7.0	7.0	4.7
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-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4505.8	4503.5	4524.6	4522.2	4494.1	4536.3	4564.4
5°	4494.1	4491.8	4510.5	4515.2	4484.8	4529.2	4559.7
7.5°	4484.8	4482.4	4503.5	4510.5	4480.1	4519.9	4552.7
10°	4487.1	4475.4	4494.1	4498.8	4470.7	4512.9	4540.9
12.5°	4503.5	4475.4	4482.4	4482.4	4456.7	4494.1	4524.6
15°	4543.3	4484.8	4475.4	4468.4	4435.6	4470.7	4501.2
17.5°	4587.8	4508.2	4475.4	4452.0	4412.2	4442.6	4475.4
20°	4632.2	4533.9	4480.1	4442.6	4388.8	4416.9	4440.3
22.5°	4653.3	4557.3	4484.8	4428.6	4360.7	4374.8	4400.5
25°	4625.2	4548.0	4475.4	4407.5	4325.6	4327.9	4349.0
27.5°	4522.2	4501.2	4454.3	4386.5	4297.5	4285.8	4302.2
30°	4346.7	4405.2	4407.5	4358.4	4264.7	4241.3	4248.4
32.5°	4100.9	4232.0	4309.2	4299.9	4217.9	4185.2	4189.8
35°	3817.7	3981.5	4150.1	4206.2	4147.7	4122.0	4112.6
37.5°	3478.3	3698.3	3923.0	4061.1	4051.7	4035.4	4026.0
40°	3103.8	3368.3	3635.1	3855.1	3923.0	3923.0	3927.7
42.5°	2703.5	3012.5	3305.1	3583.6	3742.8	3777.9	3791.9
45°	2317.3	2628.6	2946.9	3267.6	3480.6	3590.6	3630.4
47.5°	1966.2	2279.8	2581.8	2932.9	3216.1	3358.9	3422.1
50°	1666.6	1900.6	2219.0	2567.7	2876.7	3052.3	3176.3
52.5°	1418.5	1601.0	1879.6	2204.9	2516.2	2757.3	2872.0
55°	1210.1	1334.2	1570.6	1851.5	2148.8	2399.2	2532.6
57.5°	1034.6	1132.9	1294.4	1528.5	1778.9	2027.0	2169.8
60°	880.1	948.0	1058.0	1242.9	1455.9	1668.9	1807.0
62.5°	746.7	791.2	863.7	999.5	1165.7	1331.9	1460.6
65°	643.7	662.4	702.2	786.5	912.9	1039.3	1149.3
67.5°	543.0	554.7	585.2	636.7	699.9	791.2	863.7
70°	468.1	468.1	470.5	500.9	533.7	592.2	643.7
72.5°	407.3	400.3	386.2	393.2	400.3	433.0	465.8
75°	358.1	341.7	318.3	309.0	304.3	309.0	327.7
77.5°	316.0	292.6	264.5	241.1	222.4	215.3	231.7
80°	280.9	252.8	220.0	189.6	159.2	142.8	149.8
82.5°	252.8	217.7	182.6	147.5	112.4	88.9	88.9
85°	222.4	189.6	152.1	114.7	79.6	49.2	44.5
87.5°	201.3	166.2	126.4	91.3	56.2	25.7	14.0
90°	180.2	145.1	107.7	72.6	39.8	11.7	0.0
92.5°	161.5	128.7	93.6	58.5	28.1	7.0	0.0
95°	145.1	114.7	79.6	49.2	23.4	4.7	2.3
97.5°	128.7	100.6	70.2	39.8	16.4	4.7	2.3
100°	117.0	88.9	60.9	32.8	14.0	2.3	2.3
102.5°	103.0	79.6	51.5	28.1	11.7	2.3	2.3
105°	91.3	70.2	44.5	23.4	9.4	2.3	2.3
107.5°	81.9	60.9	39.8	21.1	9.4	2.3	2.3
110°	72.6	53.8	35.1	18.7	7.0	2.3	2.3



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	65.5	46.8	30.4	16.4	4.7	2.3	2.3
115°	56.2	42.1	25.7	14.0	4.7	2.3	2.3
117.5°	49.2	35.1	23.4	11.7	4.7	2.3	2.3
120°	42.1	30.4	18.7	9.4	2.3	2.3	2.3
122.5°	37.5	25.7	16.4	9.4	2.3	2.3	2.3
125°	32.8	23.4	14.0	7.0	2.3	2.3	2.3
127.5°	28.1	18.7	11.7	4.7	2.3	2.3	2.3
130°	23.4	16.4	9.4	4.7	2.3	2.3	2.3
132.5°	18.7	14.0	9.4	4.7	2.3	2.3	2.3
135°	16.4	11.7	7.0	4.7	2.3	2.3	2.3
137.5°	14.0	9.4	4.7	4.7	4.7	2.3	2.3
140°	11.7	7.0	4.7	4.7	4.7	4.7	2.3
142.5°	9.4	7.0	4.7	4.7	4.7	4.7	2.3
145°	7.0	4.7	4.7	4.7	4.7	4.7	2.3
147.5°	7.0	4.7	4.7	4.7	4.7	4.7	2.3
150°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
152.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
155°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)