

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-LD5-170HL-LC-UNV-L935-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-LD5-170HL-LC-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

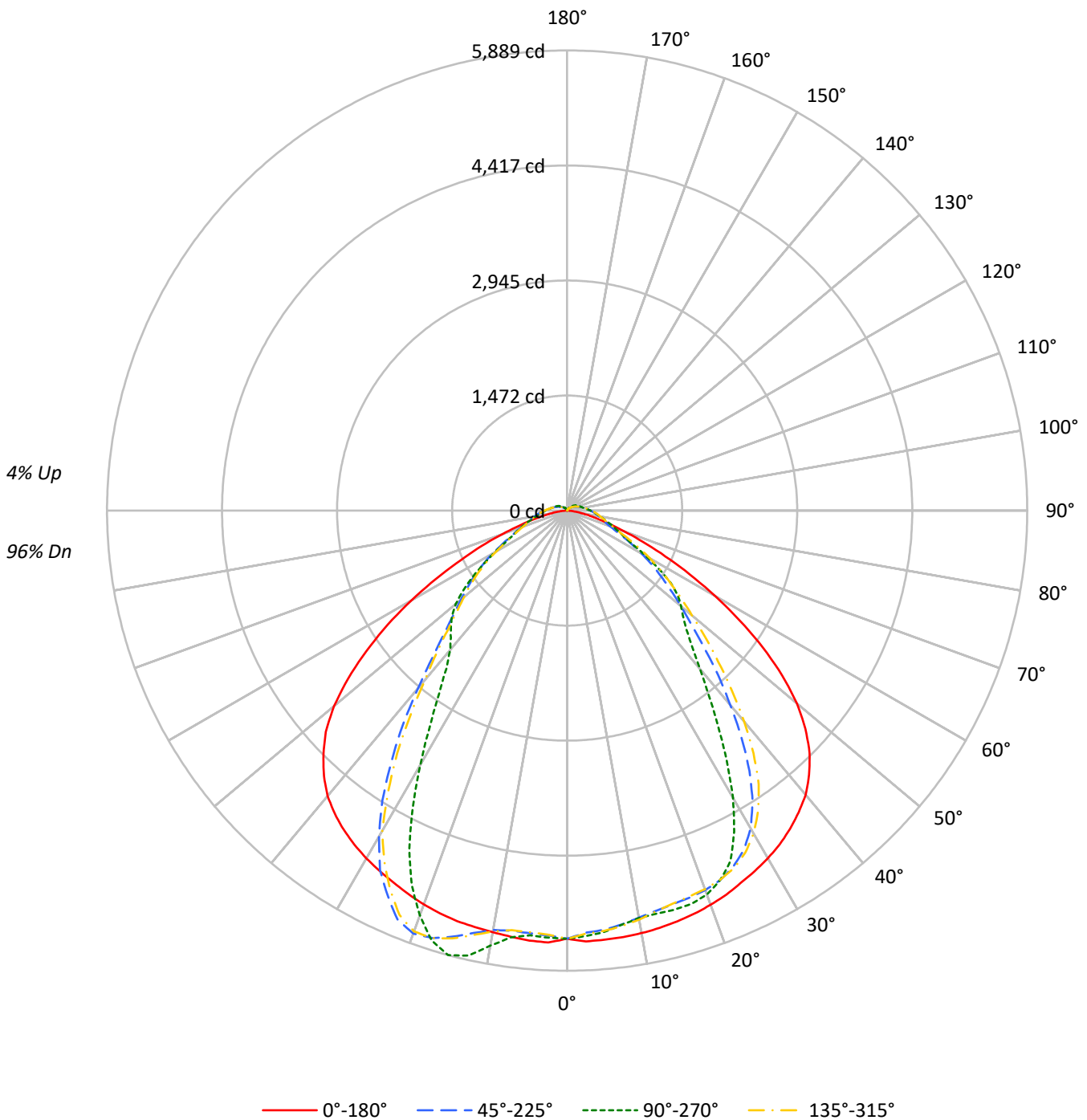
Lumens per Lamp: N/A
Luminaire Lumens: 13061.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 124
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°	22137	22137	22137	22137
5°	22329	21259	22374	21426
10°	22463	20375	22417	21758
15°	22669	20103	22657	22383
20°	22953	19784	22928	20854
25°	23272	18768	23259	18135
30°	23750	16267	23763	14411
35°	24260	13154	24329	11131
40°	24722	10591	24825	9331
45°	24695	8971	24822	8735
50°	23698	8259	24030	8075
55°	21099	7423	21626	6749
60°	17189	5682	18102	5211
65°	12854	4347	13848	4122
70°	8815	3752	9938	3588
75°	5844	3386	6805	3202
80°	3871	3157	4536	2904
85°	2116	3149	2781	2877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.4	4.0
10°-20°	1548.4	11.9
20°-30°	2354.0	18.0
30°-40°	2525.3	19.3
40°-50°	2191.7	16.8
50°-60°	1624.3	12.4
60°-70°	930.6	7.1
70°-80°	515.4	3.9
80°-90°	313.8	2.4
90°-100°	204.1	1.6
100°-110°	136.7	1.0
110°-120°	92.3	0.7
120°-130°	56.6	0.4
130°-140°	29.8	0.2
140°-150°	13.6	0.1
150°-160°	4.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4422.9	33.9
0°-40°	6948.2	53.2
0°-60°	10764.2	82.4
0°-90°	12524.0	95.9
90°-120°	433.0	3.3
90°-150°	533.0	4.1
90°-180°	537.0	4.1
0°-180°	13061.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5479	5479	5479	5479	5479	
5°	5513	5414	5524	5456	5513	525
15°	5442	5289	5439	5889	5442	1540
25°	5258	4947	5255	4780	5258	2431
35°	4972	3368	4986	2850	4972	3112
45°	4389	2159	4412	2103	4389	3360
55°	3062	1619	3138	1472	3062	2715
65°	1390	821	1497	778	1390	1401
75°	396	521	461	492	396	452
85°	54	359	71	328	54	71
90°	0	300	6	277	0	2
95°	3	246	0	235	3	2
105°	3	184	3	176	3	3
115°	3	150	3	136	3	3
125°	3	113	3	93	3	3
135°	3	71	3	59	3	2
145°	3	42	6	34	3	2
155°	6	20	6	17	6	2
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-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5518.4	5504.2	5498.6	5487.2	5495.7	5529.7	5507.1	5470.3	5473.1	5408.0	5442.0
5°	5512.7	5495.7	5487.2	5475.9	5481.6	5512.7	5490.1	5453.3	5450.5	5385.4	5416.5
7.5°	5504.2	5487.2	5473.1	5464.6	5467.4	5492.9	5464.6	5422.2	5413.7	5342.9	5371.2
10°	5490.1	5478.8	5458.9	5444.8	5442.0	5470.3	5425.0	5382.5	5362.7	5289.2	5317.5
12.5°	5470.3	5453.3	5433.5	5408.0	5405.2	5422.2	5385.4	5325.9	5306.1	5246.7	5277.8
15°	5442.0	5422.2	5399.5	5371.2	5357.1	5368.4	5323.1	5269.3	5266.5	5215.6	5258.0
17.5°	5410.8	5382.5	5357.1	5317.5	5297.6	5306.1	5269.3	5221.2	5226.9	5195.8	5243.9
20°	5368.4	5337.3	5297.6	5258.0	5229.7	5243.9	5218.4	5181.6	5190.1	5167.5	5209.9
22.5°	5320.3	5277.8	5229.7	5184.4	5161.8	5181.6	5161.8	5130.7	5133.5	5119.4	5144.8
25°	5258.0	5209.9	5153.3	5096.7	5085.4	5099.5	5088.2	5062.8	5051.4	5028.8	5040.1
27.5°	5201.4	5147.7	5076.9	5017.5	4997.7	5026.0	5000.5	4958.0	4926.9	4895.8	4873.2
30°	5136.3	5071.2	4992.0	4924.1	4907.1	4918.4	4881.6	4816.6	4734.5	4694.9	4632.6
32.5°	5065.6	4980.7	4881.6	4805.2	4793.9	4785.4	4717.5	4624.1	4496.8	4417.5	4321.3
35°	4972.2	4878.8	4760.0	4666.6	4649.6	4601.5	4491.1	4366.6	4202.5	4066.6	3902.5
37.5°	4867.5	4757.1	4632.6	4508.1	4460.0	4363.8	4208.1	4077.9	3828.9	3664.8	3466.7
40°	4748.6	4615.6	4462.8	4312.8	4233.6	4077.9	3899.7	3707.2	3466.7	3245.9	3079.0
42.5°	4584.5	4443.0	4261.9	4094.9	3959.1	3752.5	3543.1	3271.4	3050.7	2863.9	2694.1
45°	4389.2	4219.4	4010.0	3809.1	3636.5	3390.3	3144.1	2872.4	2688.4	2470.5	2354.5
47.5°	4137.4	3953.4	3729.9	3506.3	3279.9	3008.2	2750.7	2490.3	2306.4	2150.8	2065.9
50°	3840.2	3670.4	3424.2	3158.2	2909.2	2626.2	2368.7	2173.4	1995.1	1898.9	1833.8
52.5°	3472.3	3313.9	3062.0	2773.3	2532.8	2255.5	2020.6	1862.1	1734.8	1664.0	1641.4
55°	3062.0	2923.3	2674.3	2405.4	2159.2	1904.5	1726.3	1587.6	1505.5	1463.1	1465.9
57.5°	2623.4	2515.8	2280.9	2040.4	1808.3	1615.9	1454.6	1344.2	1282.0	1279.1	1287.6
60°	2184.7	2105.5	1901.7	1695.1	1491.4	1335.7	1216.9	1140.5	1100.8	1103.7	1100.8
62.5°	1765.9	1692.3	1545.1	1375.3	1214.0	1109.3	1001.8	970.7	936.7	933.9	933.9
65°	1389.5	1332.9	1214.0	1092.4	970.7	902.7	849.0	812.2	786.7	781.1	783.9
67.5°	1044.2	1021.6	939.5	857.5	781.1	738.6	693.3	684.8	665.0	665.0	670.7
70°	778.2	761.3	716.0	667.9	636.7	608.4	585.8	585.8	583.0	580.1	594.3
72.5°	563.2	566.0	551.8	515.0	512.2	506.6	500.9	509.4	512.2	520.7	537.7
75°	396.2	404.7	404.7	399.0	410.3	424.5	433.0	447.1	464.1	475.4	495.2
77.5°	280.2	280.2	294.3	311.3	333.9	359.4	382.0	401.9	424.5	438.6	455.6
80°	181.1	189.6	212.2	243.4	274.5	308.5	339.6	365.1	387.7	410.3	421.7
82.5°	107.5	121.7	150.0	189.6	229.2	271.7	302.8	333.9	359.4	382.0	390.5
85°	53.8	73.6	107.5	150.0	192.4	237.7	277.3	305.6	333.9	353.7	365.1
87.5°	17.0	39.6	76.4	116.0	161.3	206.6	249.0	280.2	305.6	322.6	333.9
90°	0.0	19.8	53.8	96.2	138.7	183.9	223.6	257.5	283.0	297.1	305.6
92.5°	0.0	11.3	42.4	79.2	118.9	164.1	203.8	234.9	257.5	271.7	277.3
95°	2.8	8.5	31.1	65.1	104.7	147.2	183.9	212.2	234.9	249.0	251.9
97.5°	2.8	5.7	25.5	53.8	90.6	130.2	167.0	195.3	212.2	226.4	229.2
100°	2.8	5.7	19.8	48.1	79.2	116.0	150.0	175.5	195.3	206.6	209.4
102.5°	2.8	2.8	17.0	39.6	70.7	101.9	133.0	158.5	175.5	186.8	192.4
105°	2.8	2.8	14.1	34.0	62.3	90.6	118.9	144.3	158.5	169.8	175.5
107.5°	2.8	2.8	11.3	28.3	53.8	79.2	107.5	127.3	144.3	155.6	161.3
110°	2.8	2.8	8.5	25.5	45.3	70.7	93.4	113.2	130.2	141.5	147.2



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CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.8	2.8	8.5	22.6	39.6	62.3	82.1	101.9	116.0	127.3	135.8
115°	2.8	2.8	8.5	19.8	36.8	53.8	73.6	90.6	104.7	116.0	124.5
117.5°	2.8	2.8	8.5	17.0	31.1	48.1	65.1	82.1	93.4	104.7	113.2
120°	2.8	2.8	5.7	14.1	28.3	42.4	56.6	70.7	84.9	96.2	104.7
122.5°	2.8	2.8	5.7	14.1	22.6	36.8	50.9	62.3	76.4	84.9	93.4
125°	2.8	2.8	5.7	11.3	19.8	34.0	45.3	56.6	65.1	76.4	84.9
127.5°	2.8	2.8	5.7	11.3	17.0	28.3	39.6	50.9	59.4	67.9	73.6
130°	2.8	2.8	5.7	8.5	14.1	22.6	34.0	42.4	53.8	59.4	65.1
132.5°	2.8	2.8	2.8	8.5	11.3	17.0	25.5	36.8	45.3	53.8	56.6
135°	2.8	2.8	2.8	5.7	11.3	14.1	19.8	28.3	36.8	45.3	50.9
137.5°	2.8	2.8	2.8	5.7	8.5	14.1	17.0	22.6	31.1	36.8	45.3
140°	2.8	2.8	2.8	5.7	8.5	11.3	14.1	19.8	25.5	31.1	36.8
142.5°	2.8	2.8	2.8	5.7	5.7	8.5	11.3	17.0	19.8	25.5	31.1
145°	2.8	2.8	2.8	5.7	5.7	8.5	11.3	14.1	17.0	19.8	25.5
147.5°	2.8	2.8	2.8	5.7	5.7	5.7	8.5	11.3	14.1	17.0	19.8
150°	5.7	5.7	5.7	5.7	5.7	5.7	8.5	8.5	11.3	14.1	17.0
152.5°	5.7	5.7	5.7	5.7	5.7	5.7	8.5	8.5	8.5	11.3	14.1
155°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	8.5	8.5	11.3	11.3
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°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5430.6	5436.3	5470.3	5467.4	5461.8	5456.1	5456.1	5450.5	5456.1	5470.3	5464.6
5°	5402.3	5410.8	5436.3	5433.5	5427.8	5425.0	5422.2	5413.7	5419.3	5439.1	5433.5
7.5°	5351.4	5359.9	5382.5	5371.2	5362.7	5368.4	5354.2	5345.8	5357.1	5376.9	5374.1
10°	5297.6	5303.3	5331.6	5325.9	5311.8	5314.6	5300.5	5294.8	5309.0	5320.3	5323.1
12.5°	5260.9	5280.7	5306.1	5303.3	5300.5	5303.3	5289.2	5283.5	5292.0	5303.3	5300.5
15°	5252.4	5277.8	5306.1	5306.1	5309.0	5311.8	5297.6	5289.2	5297.6	5306.1	5303.3
17.5°	5243.9	5275.0	5300.5	5297.6	5300.5	5306.1	5283.5	5277.8	5289.2	5300.5	5294.8
20°	5215.6	5243.9	5260.9	5255.2	5255.2	5258.0	5229.7	5229.7	5246.7	5255.2	5258.0
22.5°	5136.3	5170.3	5170.3	5156.1	5156.1	5144.8	5136.3	5119.4	5139.2	5153.3	5164.6
25°	5017.5	5031.6	5014.6	4983.5	4966.5	4952.4	4912.8	4946.7	4946.7	4989.2	5003.3
27.5°	4850.5	4819.4	4771.3	4706.2	4692.0	4646.8	4621.3	4629.8	4643.9	4703.4	4748.6
30°	4576.0	4482.6	4400.6	4372.3	4310.0	4264.7	4219.4	4242.1	4267.5	4301.5	4394.9
32.5°	4213.8	4123.2	3990.2	3942.1	3877.0	3820.4	3766.6	3800.6	3845.9	3868.5	3970.4
35°	3797.8	3690.2	3568.6	3486.5	3418.6	3387.4	3319.5	3367.6	3415.7	3432.7	3520.4
37.5°	3356.3	3245.9	3138.4	3067.7	3002.6	2982.8	2937.5	2971.4	3008.2	3033.7	3107.3
40°	2937.5	2835.6	2753.5	2705.4	2660.1	2643.2	2626.2	2640.3	2668.6	2688.4	2745.0
42.5°	2578.1	2496.0	2439.4	2411.1	2380.0	2357.3	2360.2	2365.8	2380.0	2422.4	2447.9
45°	2263.9	2215.8	2179.1	2173.4	2153.6	2150.8	2147.9	2159.2	2167.7	2193.2	2213.0
47.5°	2012.1	1992.3	1983.8	1995.1	2003.6	1992.3	1997.9	2012.1	2029.1	2029.1	2026.2
50°	1814.0	1819.6	1831.0	1856.4	1873.4	1879.1	1884.7	1901.7	1904.5	1910.2	1901.7
52.5°	1652.7	1658.3	1689.5	1729.1	1748.9	1757.4	1768.7	1785.7	1785.7	1791.4	1780.0
55°	1488.5	1497.0	1528.2	1567.8	1584.8	1596.1	1607.4	1618.7	1627.2	1638.5	1630.0
57.5°	1307.4	1332.9	1352.7	1364.0	1375.3	1383.8	1392.3	1395.2	1412.1	1415.0	1429.1
60°	1115.0	1120.7	1140.5	1137.6	1129.1	1151.8	1140.5	1160.3	1180.1	1205.6	1208.4
62.5°	931.0	933.9	948.0	942.4	953.7	950.9	959.3	959.3	973.5	984.8	999.0
65°	786.7	789.6	800.9	800.9	798.0	806.5	815.0	820.7	820.7	829.2	840.5
67.5°	679.2	687.7	699.0	704.7	710.3	710.3	718.8	721.6	727.3	730.1	735.8
70°	605.6	616.9	628.2	633.9	636.7	642.4	645.2	645.2	650.9	653.7	659.4
72.5°	551.8	563.2	571.6	571.6	577.3	580.1	580.1	583.0	585.8	591.5	597.1
75°	506.6	515.0	520.7	517.9	517.9	517.9	520.7	520.7	526.4	532.0	537.7
77.5°	464.1	472.6	472.6	466.9	466.9	466.9	466.9	469.8	472.6	478.3	483.9
80°	433.0	433.0	430.2	430.2	424.5	421.7	421.7	424.5	424.5	430.2	438.6
82.5°	399.0	399.0	396.2	393.4	390.5	387.7	387.7	390.5	393.4	396.2	401.9
85°	367.9	367.9	362.2	362.2	359.4	359.4	359.4	359.4	362.2	365.1	370.7
87.5°	336.8	333.9	331.1	328.3	328.3	328.3	328.3	328.3	331.1	336.8	339.6
90°	305.6	302.8	300.0	300.0	297.1	297.1	300.0	300.0	302.8	305.6	308.5
92.5°	277.3	274.5	271.7	271.7	268.8	268.8	271.7	268.8	274.5	274.5	277.3
95°	251.9	249.0	246.2	246.2	246.2	246.2	246.2	246.2	249.0	249.0	251.9
97.5°	229.2	226.4	223.6	223.6	226.4	223.6	226.4	226.4	226.4	229.2	232.1
100°	209.4	206.6	206.6	209.4	206.6	206.6	209.4	209.4	209.4	209.4	212.2
102.5°	192.4	192.4	192.4	192.4	192.4	192.4	195.3	195.3	195.3	195.3	198.1
105°	175.5	178.3	178.3	178.3	181.1	181.1	181.1	183.9	183.9	183.9	183.9
107.5°	164.1	167.0	167.0	169.8	169.8	172.6	172.6	172.6	172.6	175.5	175.5
110°	152.8	155.6	158.5	161.3	161.3	164.1	164.1	164.1	164.1	164.1	164.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	141.5	144.3	147.2	152.8	155.6	155.6	155.6	155.6	158.5	158.5	155.6
115°	130.2	135.8	138.7	144.3	147.2	147.2	150.0	150.0	150.0	150.0	147.2
117.5°	118.9	127.3	130.2	135.8	138.7	138.7	141.5	141.5	141.5	141.5	138.7
120°	110.4	116.0	121.7	124.5	127.3	130.2	130.2	133.0	133.0	133.0	130.2
122.5°	101.9	107.5	113.2	116.0	118.9	121.7	121.7	121.7	121.7	121.7	121.7
125°	90.6	96.2	101.9	104.7	107.5	110.4	110.4	113.2	113.2	113.2	110.4
127.5°	82.1	87.7	90.6	96.2	99.0	99.0	101.9	101.9	101.9	101.9	99.0
130°	70.7	76.4	82.1	84.9	87.7	87.7	90.6	90.6	90.6	90.6	90.6
132.5°	62.3	67.9	70.7	76.4	76.4	79.2	79.2	82.1	82.1	82.1	79.2
135°	56.6	59.4	62.3	67.9	67.9	70.7	70.7	70.7	70.7	70.7	70.7
137.5°	50.9	53.8	56.6	59.4	59.4	62.3	62.3	62.3	62.3	65.1	62.3
140°	42.4	48.1	50.9	50.9	53.8	53.8	53.8	56.6	56.6	56.6	53.8
142.5°	36.8	39.6	42.4	45.3	48.1	48.1	48.1	48.1	50.9	48.1	48.1
145°	28.3	34.0	36.8	39.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4
147.5°	22.6	25.5	31.1	34.0	34.0	36.8	36.8	36.8	36.8	36.8	36.8
150°	19.8	19.8	25.5	28.3	31.1	31.1	31.1	31.1	31.1	31.1	31.1
152.5°	14.1	17.0	19.8	22.6	25.5	25.5	25.5	25.5	25.5	25.5	25.5
155°	14.1	14.1	17.0	17.0	19.8	19.8	19.8	19.8	22.6	19.8	19.8
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-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5456.1	5453.3	5464.6	5453.3	5396.7	5419.3	5410.8	5442.0	5444.8	5453.3	5481.6
5°	5427.8	5427.8	5442.0	5430.6	5376.9	5399.5	5396.7	5427.8	5433.5	5439.1	5470.3
7.5°	5371.2	5374.1	5393.9	5385.4	5328.8	5362.7	5359.9	5396.7	5408.0	5419.3	5447.6
10°	5317.5	5314.6	5337.3	5328.8	5275.0	5314.6	5311.8	5348.6	5365.6	5385.4	5419.3
12.5°	5289.2	5280.7	5289.2	5280.7	5221.2	5252.4	5255.2	5297.6	5317.5	5342.9	5382.5
15°	5289.2	5275.0	5275.0	5258.0	5190.1	5209.9	5212.7	5241.0	5266.5	5292.0	5340.1
17.5°	5283.5	5269.3	5266.5	5252.4	5178.8	5178.8	5176.0	5195.8	5209.9	5235.4	5286.3
20°	5252.4	5246.7	5243.9	5235.4	5167.5	5156.1	5150.5	5150.5	5159.0	5167.5	5218.4
22.5°	5170.3	5176.0	5181.6	5187.3	5133.5	5113.7	5116.5	5110.9	5102.4	5102.4	5144.8
25°	5017.5	5045.8	5068.4	5093.9	5062.8	5048.6	5065.6	5057.1	5042.9	5031.6	5068.4
27.5°	4774.1	4833.5	4881.6	4943.9	4946.7	4935.4	4980.7	4975.0	4972.2	4955.2	4983.5
30°	4437.3	4530.7	4595.8	4686.4	4762.8	4774.1	4850.5	4861.8	4873.2	4864.7	4893.0
32.5°	4029.8	4157.2	4267.5	4409.0	4482.6	4547.7	4655.2	4700.5	4745.8	4760.0	4791.1
35°	3585.5	3729.9	3860.0	4015.7	4131.7	4273.2	4403.4	4471.3	4573.2	4612.8	4658.1
37.5°	3163.9	3299.7	3427.1	3582.7	3769.5	3916.6	4077.9	4230.8	4369.4	4426.0	4493.9
40°	2790.3	2900.7	3022.4	3158.2	3328.0	3520.4	3695.9	3908.1	4072.3	4185.5	4284.5
42.5°	2507.3	2561.1	2665.8	2787.5	2923.3	3118.6	3296.9	3534.6	3732.7	3894.0	4058.1
45°	2255.5	2280.9	2357.3	2422.4	2561.1	2733.7	2923.3	3155.4	3362.0	3568.6	3766.6
47.5°	2040.4	2071.5	2108.3	2147.9	2247.0	2391.3	2555.4	2764.8	2971.4	3212.0	3438.4
50°	1896.1	1904.5	1910.2	1927.2	1986.6	2085.7	2218.7	2397.0	2595.1	2852.6	3093.1
52.5°	1768.7	1768.7	1751.7	1743.2	1765.9	1828.1	1904.5	2031.9	2235.7	2473.4	2728.1
55°	1632.9	1607.4	1601.7	1573.4	1579.1	1607.4	1644.2	1743.2	1910.2	2114.0	2360.2
57.5°	1443.3	1431.9	1431.9	1420.6	1398.0	1412.1	1420.6	1491.4	1610.2	1785.7	2000.8
60°	1225.4	1219.7	1233.9	1236.7	1216.9	1225.4	1222.5	1265.0	1349.9	1491.4	1669.7
62.5°	1007.5	1032.9	1035.8	1047.1	1035.8	1032.9	1047.1	1083.9	1126.3	1233.9	1372.5
65°	846.2	860.3	863.1	877.3	871.6	871.6	882.9	911.2	936.7	1010.3	1117.8
67.5°	741.4	735.8	738.6	747.1	738.6	735.8	744.3	761.3	781.1	826.3	902.7
70°	659.4	653.7	653.7	653.7	642.4	633.9	636.7	642.4	650.9	676.4	724.5
72.5°	597.1	597.1	588.6	580.1	571.6	566.0	560.3	554.7	551.8	560.3	585.8
75°	540.5	543.3	540.5	532.0	520.7	509.4	498.1	486.7	472.6	466.9	469.8
77.5°	489.6	492.4	495.2	492.4	481.1	466.9	450.0	433.0	413.2	393.4	382.0
80°	444.3	450.0	452.8	450.0	441.5	430.2	410.3	390.5	362.2	336.8	308.5
82.5°	404.7	413.2	416.0	416.0	410.3	399.0	376.4	353.7	322.6	288.7	251.9
85°	373.6	379.2	384.9	384.9	382.0	370.7	348.1	322.6	291.5	251.9	212.2
87.5°	342.4	345.3	350.9	356.6	350.9	339.6	319.8	291.5	260.4	220.7	175.5
90°	311.3	314.1	319.8	325.4	322.6	311.3	294.3	268.8	234.9	192.4	147.2
92.5°	280.2	285.8	288.7	291.5	294.3	285.8	271.7	246.2	212.2	169.8	127.3
95°	257.5	257.5	263.2	266.0	268.8	260.4	249.0	223.6	192.4	152.8	110.4
97.5°	234.9	234.9	240.5	240.5	243.4	237.7	226.4	203.8	172.6	135.8	93.4
100°	212.2	215.1	217.9	220.7	220.7	217.9	206.6	183.9	155.6	121.7	82.1
102.5°	198.1	198.1	200.9	200.9	203.8	198.1	186.8	167.0	138.7	107.5	70.7
105°	183.9	183.9	186.8	186.8	183.9	178.3	167.0	150.0	124.5	93.4	62.3
107.5°	172.6	172.6	172.6	172.6	169.8	164.1	152.8	133.0	110.4	84.9	56.6
110°	164.1	161.3	161.3	158.5	155.6	147.2	135.8	118.9	99.0	73.6	48.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	155.6	152.8	150.0	147.2	141.5	133.0	121.7	107.5	87.7	65.1	42.4
115°	147.2	144.3	141.5	135.8	130.2	121.7	110.4	96.2	76.4	56.6	36.8
117.5°	138.7	135.8	130.2	124.5	118.9	110.4	99.0	84.9	67.9	50.9	34.0
120°	127.3	124.5	121.7	116.0	110.4	99.0	87.7	76.4	59.4	45.3	28.3
122.5°	118.9	116.0	110.4	107.5	99.0	90.6	79.2	67.9	53.8	39.6	25.5
125°	107.5	104.7	101.9	96.2	90.6	79.2	70.7	59.4	48.1	34.0	19.8
127.5°	99.0	96.2	90.6	84.9	79.2	70.7	62.3	53.8	42.4	28.3	19.8
130°	87.7	84.9	82.1	76.4	70.7	62.3	56.6	45.3	36.8	25.5	17.0
132.5°	76.4	76.4	73.6	67.9	62.3	56.6	48.1	39.6	31.1	22.6	14.1
135°	70.7	67.9	65.1	59.4	56.6	48.1	42.4	34.0	25.5	19.8	11.3
137.5°	62.3	59.4	56.6	53.8	48.1	42.4	36.8	28.3	22.6	17.0	11.3
140°	53.8	50.9	50.9	45.3	42.4	36.8	31.1	25.5	19.8	14.1	8.5
142.5°	48.1	45.3	42.4	39.6	36.8	31.1	25.5	19.8	17.0	11.3	8.5
145°	42.4	39.6	36.8	34.0	31.1	25.5	22.6	17.0	14.1	11.3	8.5
147.5°	34.0	34.0	31.1	28.3	25.5	22.6	19.8	17.0	11.3	8.5	5.7
150°	28.3	28.3	25.5	22.6	22.6	19.8	17.0	14.1	11.3	8.5	5.7
152.5°	25.5	22.6	22.6	19.8	19.8	17.0	14.1	11.3	8.5	8.5	5.7
155°	19.8	19.8	19.8	17.0	17.0	14.1	11.3	11.3	8.5	5.7	5.7
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-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5487.2	5453.3	5481.6	5532.5	5526.9	5521.2	5515.5	5526.9	5563.7	5543.8	5512.7
5°	5478.8	5444.8	5475.9	5524.0	5521.2	5512.7	5507.1	5518.4	5555.2	5535.4	5501.4
7.5°	5461.8	5430.6	5453.3	5501.4	5501.4	5495.7	5490.1	5501.4	5535.4	5518.4	5484.4
10°	5433.5	5410.8	5433.5	5478.8	5481.6	5470.3	5464.6	5478.8	5512.7	5504.2	5475.9
12.5°	5410.8	5388.2	5413.7	5458.9	5461.8	5450.5	5442.0	5458.9	5504.2	5509.9	5501.4
15°	5379.7	5359.9	5391.0	5439.1	5439.1	5430.6	5430.6	5453.3	5515.5	5541.0	5555.2
17.5°	5334.4	5320.3	5357.1	5405.2	5408.0	5402.3	5405.2	5450.5	5532.5	5594.8	5634.4
20°	5277.8	5272.2	5311.8	5362.7	5371.2	5374.1	5388.2	5456.1	5569.3	5654.2	5693.8
22.5°	5209.9	5212.7	5258.0	5311.8	5323.1	5331.6	5359.9	5456.1	5597.6	5688.2	5705.2
25°	5133.5	5142.0	5190.1	5255.2	5269.3	5286.3	5334.4	5458.9	5606.1	5665.5	5637.2
27.5°	5051.4	5068.4	5130.7	5198.6	5215.6	5243.9	5306.1	5442.0	5566.5	5569.3	5464.6
30°	4966.5	4986.3	5059.9	5139.2	5167.5	5195.8	5272.2	5402.3	5470.3	5379.7	5195.8
32.5°	4870.3	4898.6	4972.2	5068.4	5102.4	5139.2	5215.6	5325.9	5300.5	5105.2	4842.0
35°	4748.6	4788.3	4873.2	4986.3	5017.5	5065.6	5119.4	5144.8	5031.6	4754.3	4457.2
37.5°	4598.6	4658.1	4757.1	4887.3	4921.3	4952.4	4966.5	4895.8	4669.4	4369.4	4061.0
40°	4426.0	4516.6	4624.1	4768.4	4802.4	4802.4	4751.5	4601.5	4315.7	3922.3	3579.9
42.5°	4216.6	4327.0	4462.8	4607.1	4641.1	4601.5	4479.8	4216.6	3891.2	3452.5	3090.3
45°	3961.9	4109.1	4261.9	4411.9	4428.9	4341.1	4123.2	3789.3	3387.4	2979.9	2634.7
47.5°	3659.1	3851.5	4018.5	4188.3	4165.7	4018.5	3727.0	3347.8	2923.3	2538.5	2261.1
50°	3319.5	3545.9	3732.7	3894.0	3845.9	3642.1	3299.7	2903.5	2481.9	2153.6	1924.4
52.5°	2957.3	3217.6	3404.4	3534.6	3469.5	3226.1	2849.7	2470.5	2125.3	1825.3	1672.5
55°	2580.9	2844.1	3036.5	3138.4	3053.5	2790.3	2419.6	2074.3	1748.9	1553.6	1463.1
57.5°	2215.8	2462.0	2643.2	2725.2	2617.7	2354.5	2012.1	1720.6	1485.7	1321.6	1276.3
60°	1864.9	2065.9	2238.5	2300.7	2184.7	1941.3	1647.0	1415.0	1242.3	1129.1	1106.5
62.5°	1539.5	1703.6	1839.5	1887.6	1774.4	1584.8	1330.1	1157.4	1035.8	979.2	950.9
65°	1270.6	1366.9	1505.5	1497.0	1429.1	1253.7	1066.9	945.2	866.0	829.2	812.2
67.5°	999.0	1086.7	1174.4	1185.7	1100.8	979.2	857.5	769.7	727.3	707.5	699.0
70°	772.6	837.7	891.4	877.3	832.0	755.6	679.2	631.1	614.1	605.6	605.6
72.5°	599.9	633.9	659.4	642.4	614.1	574.5	537.7	517.9	520.7	526.4	532.0
75°	464.1	472.6	478.3	461.3	455.6	430.2	427.3	430.2	447.1	464.1	472.6
77.5°	356.6	345.3	336.8	319.8	322.6	319.8	333.9	356.6	382.0	407.5	430.2
80°	274.5	249.0	229.2	212.2	220.7	234.9	263.2	297.1	331.1	359.4	387.7
82.5°	212.2	175.5	147.2	130.2	147.2	169.8	206.6	249.0	288.7	319.8	350.9
85°	164.1	121.7	87.7	70.7	87.7	121.7	161.3	209.4	251.9	285.8	317.0
87.5°	127.3	87.7	48.1	28.3	48.1	84.9	130.2	175.5	217.9	257.5	288.7
90°	101.9	59.4	22.6	5.7	25.5	59.4	101.9	147.2	189.6	232.1	263.2
92.5°	82.1	42.4	11.3	0.0	14.1	45.3	84.9	127.3	169.8	209.4	240.5
95°	67.9	34.0	8.5	0.0	11.3	34.0	67.9	110.4	150.0	189.6	215.1
97.5°	56.6	25.5	5.7	0.0	5.7	28.3	56.6	93.4	133.0	169.8	195.3
100°	48.1	22.6	5.7	0.0	5.7	22.6	48.1	82.1	116.0	150.0	175.5
102.5°	39.6	17.0	2.8	2.8	2.8	17.0	42.4	70.7	101.9	133.0	158.5
105°	36.8	14.1	2.8	2.8	2.8	14.1	36.8	62.3	90.6	118.9	141.5
107.5°	31.1	11.3	2.8	2.8	2.8	11.3	31.1	53.8	82.1	107.5	127.3
110°	25.5	11.3	2.8	2.8	2.8	11.3	25.5	48.1	70.7	93.4	113.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.6	8.5	2.8	2.8	2.8	8.5	22.6	42.4	62.3	84.9	101.9
115°	19.8	8.5	2.8	2.8	2.8	8.5	19.8	36.8	53.8	73.6	90.6
117.5°	17.0	8.5	2.8	2.8	2.8	5.7	17.0	31.1	48.1	65.1	82.1
120°	14.1	5.7	2.8	2.8	2.8	5.7	14.1	28.3	42.4	56.6	70.7
122.5°	14.1	5.7	2.8	2.8	2.8	5.7	11.3	22.6	36.8	48.1	62.3
125°	11.3	5.7	2.8	2.8	2.8	2.8	11.3	19.8	31.1	42.4	53.8
127.5°	11.3	5.7	2.8	2.8	2.8	2.8	8.5	17.0	25.5	36.8	48.1
130°	8.5	5.7	2.8	2.8	2.8	2.8	5.7	14.1	22.6	31.1	39.6
132.5°	8.5	5.7	2.8	2.8	2.8	2.8	5.7	11.3	17.0	25.5	34.0
135°	8.5	2.8	2.8	2.8	2.8	2.8	2.8	8.5	14.1	19.8	25.5
137.5°	5.7	2.8	2.8	2.8	2.8	2.8	2.8	5.7	11.3	14.1	22.6
140°	5.7	2.8	2.8	2.8	2.8	2.8	2.8	5.7	8.5	11.3	17.0
142.5°	5.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.7	8.5	14.1
145°	5.7	2.8	2.8	5.7	5.7	2.8	2.8	5.7	5.7	8.5	11.3
147.5°	5.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.7	5.7	8.5
150°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	8.5
152.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
155°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5507.1	5442.0	5475.9	5464.6	5475.9	5504.2	5501.4	5492.9	5498.6	5484.4	5470.3
5°	5495.7	5430.6	5464.6	5450.5	5464.6	5492.9	5487.2	5478.8	5487.2	5470.3	5456.1
7.5°	5481.6	5422.2	5461.8	5458.9	5484.4	5521.2	5524.0	5524.0	5543.8	5518.4	5507.1
10°	5481.6	5450.5	5504.2	5524.0	5589.1	5637.2	5642.9	5654.2	5688.2	5682.5	5654.2
12.5°	5541.0	5535.4	5614.6	5662.7	5722.1	5790.1	5826.8	5838.2	5860.8	5843.8	5832.5
15°	5617.4	5645.7	5733.5	5787.2	5852.3	5903.2	5911.7	5917.4	5934.4	5908.9	5889.1
17.5°	5719.3	5736.3	5807.0	5829.7	5872.1	5880.6	5869.3	5841.0	5841.0	5784.4	5767.4
20°	5767.4	5758.9	5787.2	5750.4	5733.5	5682.5	5634.4	5580.6	5577.8	5518.4	5512.7
22.5°	5725.0	5668.4	5608.9	5518.4	5478.8	5405.2	5340.1	5309.0	5289.2	5212.7	5192.9
25°	5575.0	5436.3	5348.6	5241.0	5144.8	5059.9	4997.7	4932.6	4870.3	4808.1	4779.8
27.5°	5314.6	5184.4	5042.9	4893.0	4760.0	4629.8	4525.1	4460.0	4400.6	4318.5	4276.0
30°	4994.8	4813.7	4658.1	4513.7	4295.8	4137.4	4049.6	3919.5	3874.2	3837.4	3758.2
32.5°	4618.5	4400.6	4188.3	3993.0	3769.5	3622.3	3506.3	3410.1	3381.8	3285.6	3262.9
35°	4202.5	3916.6	3676.1	3483.7	3322.3	3144.1	3047.8	2982.8	2926.2	2861.1	2849.7
37.5°	3712.9	3455.4	3183.7	3013.9	2886.5	2733.7	2660.1	2614.9	2589.4	2541.3	2532.8
40°	3220.5	2962.9	2776.2	2606.4	2527.1	2445.1	2391.3	2371.5	2360.2	2343.2	2326.2
42.5°	2773.3	2546.9	2413.9	2300.7	2266.8	2227.2	2213.0	2224.3	2213.0	2207.4	2204.5
45°	2394.1	2221.5	2128.1	2094.2	2085.7	2074.3	2085.7	2105.5	2108.3	2102.6	2102.6
47.5°	2048.9	1966.8	1927.2	1932.8	1947.0	1955.5	1975.3	2000.8	2006.4	1992.3	1997.9
50°	1822.5	1774.4	1765.9	1788.5	1819.6	1831.0	1853.6	1873.4	1870.6	1864.9	1859.3
52.5°	1610.2	1596.1	1618.7	1641.4	1675.3	1681.0	1689.5	1698.0	1695.1	1683.8	1678.2
55°	1431.9	1443.3	1463.1	1471.6	1497.0	1494.2	1497.0	1497.0	1485.7	1480.1	1471.6
57.5°	1270.6	1273.5	1284.8	1287.6	1301.8	1296.1	1293.3	1287.6	1270.6	1267.8	1259.3
60°	1106.5	1100.8	1126.3	1106.5	1117.8	1106.5	1103.7	1089.5	1072.5	1069.7	1064.1
62.5°	950.9	939.5	956.5	948.0	953.7	942.4	936.7	919.7	905.6	902.7	899.9
65°	812.2	806.5	823.5	820.7	826.3	812.2	806.5	795.2	783.9	781.1	778.2
67.5°	696.2	710.3	718.8	718.8	724.5	721.6	707.5	704.7	701.8	690.5	690.5
70°	611.3	619.8	636.7	639.6	636.7	642.4	631.1	628.2	625.4	619.8	616.9
72.5°	543.3	554.7	571.6	574.5	571.6	571.6	566.0	563.2	563.2	554.7	554.7
75°	489.6	503.7	517.9	517.9	517.9	512.2	506.6	506.6	500.9	498.1	492.4
77.5°	444.3	461.3	472.6	469.8	466.9	461.3	461.3	452.8	444.3	444.3	438.6
80°	410.3	421.7	430.2	427.3	424.5	416.0	413.2	404.7	399.0	390.5	390.5
82.5°	373.6	387.7	393.4	390.5	384.9	376.4	373.6	367.9	362.2	359.4	353.7
85°	342.4	356.6	359.4	353.7	348.1	342.4	339.6	336.8	333.9	328.3	328.3
87.5°	311.3	325.4	325.4	322.6	317.0	314.1	311.3	308.5	305.6	302.8	300.0
90°	285.8	297.1	297.1	294.3	291.5	288.7	285.8	283.0	280.2	277.3	277.3
92.5°	260.4	271.7	271.7	268.8	266.0	263.2	263.2	260.4	257.5	254.7	251.9
95°	237.7	249.0	249.0	249.0	246.2	243.4	243.4	240.5	237.7	237.7	234.9
97.5°	215.1	226.4	226.4	226.4	223.6	220.7	220.7	217.9	217.9	217.9	215.1
100°	195.3	203.8	206.6	206.6	203.8	203.8	203.8	200.9	200.9	200.9	198.1
102.5°	175.5	183.9	189.6	189.6	189.6	186.8	186.8	186.8	186.8	186.8	183.9
105°	158.5	167.0	172.6	175.5	175.5	175.5	175.5	175.5	175.5	175.5	175.5
107.5°	144.3	152.8	158.5	161.3	164.1	164.1	167.0	167.0	167.0	167.0	167.0
110°	130.2	138.7	147.2	150.0	152.8	155.6	155.6	158.5	155.6	155.6	155.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	116.0	127.3	133.0	138.7	141.5	144.3	147.2	147.2	147.2	147.2	147.2
115°	104.7	116.0	121.7	127.3	133.0	135.8	135.8	138.7	138.7	138.7	135.8
117.5°	93.4	104.7	110.4	116.0	118.9	124.5	127.3	127.3	127.3	127.3	124.5
120°	84.9	93.4	99.0	104.7	110.4	113.2	116.0	116.0	116.0	116.0	116.0
122.5°	73.6	82.1	90.6	96.2	99.0	101.9	104.7	104.7	104.7	104.7	104.7
125°	65.1	73.6	79.2	84.9	87.7	93.4	93.4	93.4	93.4	93.4	93.4
127.5°	56.6	65.1	70.7	76.4	79.2	82.1	84.9	84.9	84.9	84.9	84.9
130°	48.1	56.6	62.3	67.9	70.7	73.6	73.6	76.4	76.4	76.4	76.4
132.5°	42.4	48.1	53.8	59.4	62.3	65.1	65.1	67.9	67.9	67.9	67.9
135°	34.0	42.4	45.3	50.9	53.8	56.6	56.6	59.4	59.4	59.4	59.4
137.5°	28.3	34.0	39.6	45.3	48.1	48.1	50.9	50.9	53.8	53.8	53.8
140°	22.6	25.5	34.0	36.8	39.6	42.4	45.3	45.3	45.3	45.3	45.3
142.5°	17.0	22.6	25.5	31.1	34.0	36.8	39.6	39.6	39.6	39.6	39.6
145°	14.1	17.0	19.8	25.5	28.3	31.1	34.0	34.0	34.0	34.0	34.0
147.5°	11.3	14.1	17.0	19.8	22.6	25.5	28.3	28.3	28.3	28.3	28.3
150°	8.5	11.3	14.1	14.1	17.0	19.8	22.6	25.5	25.5	25.5	25.5
152.5°	8.5	8.5	11.3	11.3	14.1	17.0	19.8	19.8	19.8	19.8	19.8
155°	5.7	8.5	8.5	8.5	11.3	11.3	14.1	17.0	17.0	17.0	17.0
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-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5478.8	5490.1	5484.4	5475.9	5473.1	5487.2	5473.1	5408.0	5433.5	5436.3	5456.1
5°	5470.3	5478.8	5473.1	5467.4	5458.9	5475.9	5458.9	5391.0	5416.5	5419.3	5439.1
7.5°	5526.9	5529.7	5529.7	5515.5	5492.9	5501.4	5478.8	5402.3	5416.5	5416.5	5430.6
10°	5668.4	5674.0	5682.5	5645.7	5617.4	5594.8	5563.7	5470.3	5467.4	5444.8	5444.8
12.5°	5852.3	5838.2	5824.0	5807.0	5784.4	5756.1	5710.8	5600.4	5563.7	5526.9	5490.1
15°	5906.1	5900.4	5897.6	5889.1	5874.9	5866.5	5832.5	5722.1	5668.4	5623.1	5558.0
17.5°	5764.6	5775.9	5812.7	5815.5	5832.5	5866.5	5860.8	5784.4	5736.3	5716.5	5637.2
20°	5509.9	5512.7	5558.0	5577.8	5651.4	5708.0	5750.4	5741.9	5730.6	5753.3	5693.8
22.5°	5204.3	5224.1	5272.2	5303.3	5374.1	5439.1	5507.1	5543.8	5603.3	5696.7	5685.3
25°	4788.3	4813.7	4881.6	4932.6	5031.6	5130.7	5221.2	5286.3	5357.1	5535.4	5594.8
27.5°	4290.2	4329.8	4417.5	4468.5	4607.1	4709.0	4839.2	4966.5	5065.6	5269.3	5391.0
30°	3766.6	3800.6	3894.0	3964.7	4083.6	4222.3	4386.4	4567.5	4731.7	4938.2	5091.1
32.5°	3277.1	3313.9	3390.3	3452.5	3585.5	3701.6	3882.7	4106.2	4259.1	4544.9	4748.6
35°	2849.7	2883.7	2937.5	2991.2	3101.6	3220.5	3376.1	3594.0	3789.3	4086.4	4344.0
37.5°	2549.8	2555.4	2586.6	2617.7	2699.8	2790.3	2912.0	3104.4	3285.6	3605.3	3888.3
40°	2334.7	2334.7	2351.7	2360.2	2397.0	2450.7	2527.1	2677.1	2827.1	3070.5	3415.7
42.5°	2201.7	2196.0	2196.0	2198.9	2196.0	2221.5	2266.8	2337.5	2470.5	2671.5	2940.3
45°	2102.6	2091.3	2082.8	2063.0	2051.7	2051.7	2054.5	2080.0	2156.4	2286.6	2504.5
47.5°	1992.3	1989.4	1975.3	1952.7	1932.8	1918.7	1896.1	1887.6	1910.2	1983.8	2130.9
50°	1864.9	1850.8	1836.6	1819.6	1797.0	1782.9	1740.4	1743.2	1723.4	1757.4	1833.8
52.5°	1678.2	1666.8	1661.2	1647.0	1638.5	1632.9	1598.9	1565.0	1556.5	1562.1	1590.4
55°	1471.6	1477.2	1454.6	1465.9	1463.1	1437.6	1423.5	1398.0	1389.5	1386.7	1400.8
57.5°	1256.5	1262.2	1248.0	1259.3	1259.3	1245.2	1236.7	1236.7	1216.9	1199.9	1219.7
60°	1061.2	1049.9	1058.4	1072.5	1072.5	1064.1	1058.4	1058.4	1044.2	1038.6	1052.7
62.5°	902.7	891.4	899.9	914.1	916.9	911.2	905.6	905.6	888.6	888.6	899.9
65°	781.1	783.9	781.1	792.4	792.4	795.2	789.6	783.9	764.1	772.6	769.7
67.5°	693.3	690.5	690.5	701.8	699.0	704.7	699.0	690.5	676.4	665.0	662.2
70°	619.8	616.9	616.9	622.6	625.4	625.4	622.6	616.9	597.1	585.8	577.3
72.5°	554.7	551.8	554.7	557.5	560.3	563.2	560.3	554.7	537.7	523.5	509.4
75°	495.2	492.4	500.9	500.9	503.7	503.7	506.6	503.7	489.6	472.6	455.6
77.5°	435.8	438.6	447.1	450.0	455.6	458.4	461.3	461.3	447.1	433.0	410.3
80°	387.7	393.4	399.0	401.9	407.5	416.0	418.8	421.7	410.3	396.2	370.7
82.5°	353.7	356.6	362.2	365.1	373.6	376.4	379.2	384.9	379.2	365.1	336.8
85°	325.4	328.3	333.9	333.9	339.6	345.3	348.1	350.9	348.1	333.9	305.6
87.5°	300.0	302.8	305.6	308.5	311.3	314.1	317.0	319.8	317.0	302.8	277.3
90°	277.3	277.3	280.2	280.2	283.0	285.8	291.5	291.5	288.7	277.3	251.9
92.5°	251.9	254.7	254.7	257.5	260.4	263.2	266.0	266.0	263.2	251.9	229.2
95°	234.9	234.9	237.7	237.7	240.5	240.5	243.4	243.4	240.5	229.2	206.6
97.5°	215.1	215.1	215.1	215.1	217.9	217.9	220.7	220.7	217.9	206.6	186.8
100°	198.1	198.1	198.1	198.1	198.1	200.9	200.9	200.9	198.1	186.8	167.0
102.5°	183.9	183.9	183.9	183.9	183.9	183.9	183.9	183.9	178.3	169.8	150.0
105°	175.5	175.5	175.5	172.6	172.6	172.6	169.8	169.8	161.3	152.8	135.8
107.5°	164.1	164.1	164.1	161.3	161.3	158.5	155.6	155.6	147.2	138.7	121.7
110°	155.6	155.6	155.6	152.8	150.0	147.2	144.3	141.5	133.0	121.7	107.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.2	147.2	144.3	144.3	141.5	138.7	133.0	130.2	121.7	110.4	96.2
115°	135.8	135.8	135.8	133.0	130.2	127.3	124.5	118.9	110.4	99.0	84.9
117.5°	124.5	124.5	124.5	121.7	118.9	116.0	113.2	107.5	99.0	87.7	76.4
120°	113.2	113.2	113.2	110.4	107.5	104.7	101.9	96.2	87.7	79.2	65.1
122.5°	104.7	104.7	101.9	99.0	96.2	93.4	90.6	84.9	79.2	67.9	56.6
125°	93.4	93.4	90.6	90.6	87.7	84.9	82.1	76.4	67.9	59.4	50.9
127.5°	84.9	82.1	82.1	82.1	79.2	76.4	70.7	67.9	59.4	50.9	42.4
130°	73.6	73.6	73.6	70.7	70.7	67.9	62.3	56.6	50.9	45.3	36.8
132.5°	65.1	65.1	65.1	65.1	62.3	59.4	53.8	50.9	45.3	36.8	31.1
135°	59.4	59.4	56.6	56.6	53.8	50.9	48.1	42.4	36.8	31.1	25.5
137.5°	50.9	50.9	50.9	48.1	48.1	45.3	39.6	36.8	34.0	28.3	22.6
140°	45.3	45.3	42.4	42.4	39.6	39.6	36.8	31.1	28.3	22.6	19.8
142.5°	39.6	39.6	36.8	36.8	34.0	34.0	31.1	28.3	22.6	19.8	14.1
145°	34.0	34.0	31.1	31.1	31.1	28.3	25.5	22.6	19.8	17.0	14.1
147.5°	28.3	28.3	28.3	25.5	25.5	22.6	22.6	19.8	17.0	14.1	11.3
150°	25.5	25.5	22.6	22.6	22.6	19.8	17.0	17.0	14.1	11.3	8.5
152.5°	19.8	19.8	19.8	19.8	17.0	17.0	14.1	14.1	11.3	8.5	8.5
155°	17.0	17.0	17.0	14.1	14.1	14.1	11.3	11.3	8.5	8.5	5.7
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-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5447.6	5444.8	5470.3	5467.4	5433.5	5484.4	5518.4
5°	5433.5	5430.6	5453.3	5458.9	5422.2	5475.9	5512.7
7.5°	5422.2	5419.3	5444.8	5453.3	5416.5	5464.6	5504.2
10°	5425.0	5410.8	5433.5	5439.1	5405.2	5456.1	5490.1
12.5°	5444.8	5410.8	5419.3	5419.3	5388.2	5433.5	5470.3
15°	5492.9	5422.2	5410.8	5402.3	5362.7	5405.2	5442.0
17.5°	5546.7	5450.5	5410.8	5382.5	5334.4	5371.2	5410.8
20°	5600.4	5481.6	5416.5	5371.2	5306.1	5340.1	5368.4
22.5°	5625.9	5509.9	5422.2	5354.2	5272.2	5289.2	5320.3
25°	5592.0	5498.6	5410.8	5328.8	5229.7	5232.6	5258.0
27.5°	5467.4	5442.0	5385.4	5303.3	5195.8	5181.6	5201.4
30°	5255.2	5325.9	5328.8	5269.3	5156.1	5127.8	5136.3
32.5°	4958.0	5116.5	5209.9	5198.6	5099.5	5059.9	5065.6
35°	4615.6	4813.7	5017.5	5085.4	5014.6	4983.5	4972.2
37.5°	4205.3	4471.3	4743.0	4909.9	4898.6	4878.8	4867.5
40°	3752.5	4072.3	4394.9	4660.9	4743.0	4743.0	4748.6
42.5°	3268.6	3642.1	3995.9	4332.6	4525.1	4567.5	4584.5
45°	2801.6	3178.0	3562.9	3950.6	4208.1	4341.1	4389.2
47.5°	2377.1	2756.4	3121.4	3545.9	3888.3	4061.0	4137.4
50°	2014.9	2297.9	2682.8	3104.4	3478.0	3690.2	3840.2
52.5°	1714.9	1935.7	2272.4	2665.8	3042.2	3333.7	3472.3
55°	1463.1	1613.1	1898.9	2238.5	2597.9	2900.7	3062.0
57.5°	1250.8	1369.7	1565.0	1847.9	2150.8	2450.7	2623.4
60°	1064.1	1146.1	1279.1	1502.7	1760.2	2017.7	2184.7
62.5°	902.7	956.5	1044.2	1208.4	1409.3	1610.2	1765.9
65°	778.2	800.9	849.0	950.9	1103.7	1256.5	1389.5
67.5°	656.5	670.7	707.5	769.7	846.2	956.5	1044.2
70°	566.0	566.0	568.8	605.6	645.2	716.0	778.2
72.5°	492.4	483.9	466.9	475.4	483.9	523.5	563.2
75°	433.0	413.2	384.9	373.6	367.9	373.6	396.2
77.5°	382.0	353.7	319.8	291.5	268.8	260.4	280.2
80°	339.6	305.6	266.0	229.2	192.4	172.6	181.1
82.5°	305.6	263.2	220.7	178.3	135.8	107.5	107.5
85°	268.8	229.2	183.9	138.7	96.2	59.4	53.8
87.5°	243.4	200.9	152.8	110.4	67.9	31.1	17.0
90°	217.9	175.5	130.2	87.7	48.1	14.1	0.0
92.5°	195.3	155.6	113.2	70.7	34.0	8.5	0.0
95°	175.5	138.7	96.2	59.4	28.3	5.7	2.8
97.5°	155.6	121.7	84.9	48.1	19.8	5.7	2.8
100°	141.5	107.5	73.6	39.6	17.0	2.8	2.8
102.5°	124.5	96.2	62.3	34.0	14.1	2.8	2.8
105°	110.4	84.9	53.8	28.3	11.3	2.8	2.8
107.5°	99.0	73.6	48.1	25.5	11.3	2.8	2.8
110°	87.7	65.1	42.4	22.6	8.5	2.8	2.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	79.2	56.6	36.8	19.8	5.7	2.8	2.8
115°	67.9	50.9	31.1	17.0	5.7	2.8	2.8
117.5°	59.4	42.4	28.3	14.1	5.7	2.8	2.8
120°	50.9	36.8	22.6	11.3	2.8	2.8	2.8
122.5°	45.3	31.1	19.8	11.3	2.8	2.8	2.8
125°	39.6	28.3	17.0	8.5	2.8	2.8	2.8
127.5°	34.0	22.6	14.1	5.7	2.8	2.8	2.8
130°	28.3	19.8	11.3	5.7	2.8	2.8	2.8
132.5°	22.6	17.0	11.3	5.7	2.8	2.8	2.8
135°	19.8	14.1	8.5	5.7	2.8	2.8	2.8
137.5°	17.0	11.3	5.7	5.7	5.7	2.8	2.8
140°	14.1	8.5	5.7	5.7	5.7	5.7	2.8
142.5°	11.3	8.5	5.7	5.7	5.7	5.7	2.8
145°	8.5	5.7	5.7	5.7	5.7	5.7	2.8
147.5°	8.5	5.7	5.7	5.7	5.7	5.7	2.8
150°	5.7	5.7	5.7	5.7	5.7	5.7	5.7
152.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7
155°	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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)