

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: **4SNLED-LD5-66SL-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: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

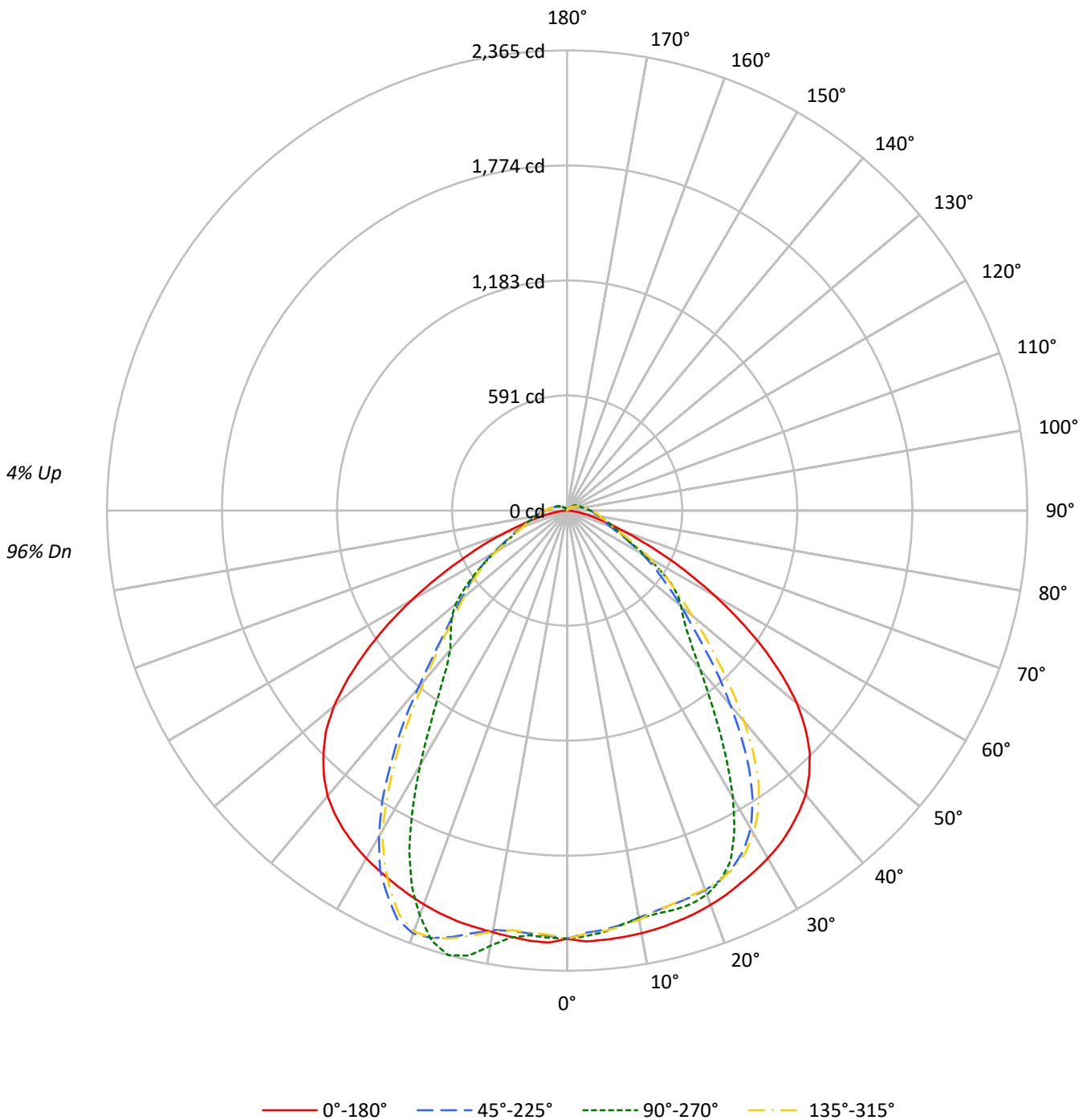
Lumens per Lamp: N/A
Luminaire Lumens: 5246.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
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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°	17783	17783	17783	17783
5°	17912	17078	17950	17212
10°	17995	16368	17958	17478
15°	18135	16149	18126	17981
20°	18334	15892	18315	16753
25°	18560	15077	18550	14568
30°	18909	13067	18920	11576
35°	19280	10566	19335	8941
40°	19606	8508	19688	7495
45°	19538	7207	19637	7017
50°	18695	6634	18956	6487
55°	16588	5964	17002	5421
60°	13454	4564	14168	4186
65°	10001	3492	10776	3312
70°	6802	3015	7668	2882
75°	4449	2719	5181	2572
80°	2874	2536	3368	2334
85°	1476	2531	1940	2312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	4.0
10°-20°	621.9	11.9
20°-30°	945.5	18.0
30°-40°	1014.3	19.3
40°-50°	880.3	16.8
50°-60°	652.4	12.4
60°-70°	373.8	7.1
70°-80°	207.0	3.9
80°-90°	126.0	2.4
90°-100°	82.0	1.6
100°-110°	54.9	1.0
110°-120°	37.1	0.7
120°-130°	22.7	0.4
130°-140°	12.0	0.2
140°-150°	5.5	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1776.5	33.9
0°-40°	2790.8	53.2
0°-60°	4323.5	82.4
0°-90°	5030.3	95.9
90°-120°	173.9	3.3
90°-150°	214.1	4.1
90°-180°	216.0	4.1
0°-180°	5246.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2201	2201	2201	2201	2201	
5°	2214	2174	2219	2192	2214	211
15°	2186	2124	2185	2365	2186	618
25°	2112	1987	2111	1920	2112	976
35°	1997	1353	2003	1145	1997	1250
45°	1763	867	1772	844	1763	1350
55°	1230	650	1261	591	1230	1091
65°	558	330	601	313	558	563
75°	159	209	185	198	159	182
85°	22	144	28	132	22	28
90°	0	120	2	111	0	1
95°	1	99	0	94	1	1
105°	1	74	1	70	1	1
115°	1	60	1	55	1	1
125°	1	46	1	38	1	1
135°	1	28	1	24	1	1
145°	1	17	2	14	1	1
155°	2	8	2	7	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2216.5	2210.8	2208.5	2204.0	2207.4	2221.0	2211.9	2197.2	2198.3	2172.1	2185.8
5°	2214.2	2207.4	2204.0	2199.4	2201.7	2214.2	2205.1	2190.3	2189.2	2163.1	2175.6
7.5°	2210.8	2204.0	2198.3	2194.9	2196.0	2206.2	2194.9	2177.8	2174.4	2146.0	2157.4
10°	2205.1	2200.6	2192.6	2186.9	2185.8	2197.2	2179.0	2161.9	2154.0	2124.4	2135.8
12.5°	2197.2	2190.3	2182.4	2172.1	2171.0	2177.8	2163.1	2139.2	2131.2	2107.4	2119.9
15°	2185.8	2177.8	2168.7	2157.4	2151.7	2156.2	2138.0	2116.5	2115.3	2094.9	2111.9
17.5°	2173.3	2161.9	2151.7	2135.8	2127.8	2131.2	2116.5	2097.1	2099.4	2086.9	2106.2
20°	2156.2	2143.7	2127.8	2111.9	2100.5	2106.2	2096.0	2081.2	2084.6	2075.5	2092.6
22.5°	2136.9	2119.9	2100.5	2082.4	2073.3	2081.2	2073.3	2060.8	2061.9	2056.2	2066.4
25°	2111.9	2092.6	2069.8	2047.1	2042.6	2048.3	2043.7	2033.5	2028.9	2019.8	2024.4
27.5°	2089.2	2067.6	2039.2	2015.3	2007.3	2018.7	2008.5	1991.4	1978.9	1966.4	1957.3
30°	2063.0	2036.9	2005.1	1977.8	1971.0	1975.5	1960.7	1934.6	1901.6	1885.7	1860.7
32.5°	2034.6	2000.5	1960.7	1930.0	1925.5	1922.1	1894.8	1857.3	1806.1	1774.3	1735.7
35°	1997.1	1959.6	1911.9	1874.3	1867.5	1848.2	1803.9	1753.9	1687.9	1633.4	1567.4
37.5°	1955.0	1910.7	1860.7	1810.7	1791.4	1752.7	1690.2	1637.9	1537.9	1472.0	1392.4
40°	1907.3	1853.9	1792.5	1732.3	1700.4	1637.9	1566.3	1489.0	1392.4	1303.7	1236.7
42.5°	1841.4	1784.5	1711.8	1644.7	1590.2	1507.2	1423.1	1314.0	1225.3	1150.3	1082.1
45°	1763.0	1694.8	1610.6	1529.9	1460.6	1361.7	1262.8	1153.7	1079.8	992.3	945.7
47.5°	1661.8	1587.9	1498.1	1408.3	1317.4	1208.3	1104.8	1000.3	926.4	863.9	829.8
50°	1542.4	1474.2	1375.4	1268.5	1168.5	1054.8	951.4	873.0	801.3	762.7	736.6
52.5°	1394.7	1331.0	1229.9	1113.9	1017.3	905.9	811.6	747.9	696.8	668.4	659.3
55°	1229.9	1174.2	1074.1	966.2	867.3	765.0	693.4	637.7	604.7	587.7	588.8
57.5°	1053.7	1010.5	916.1	819.5	726.3	649.0	584.2	539.9	514.9	513.8	517.2
60°	877.5	845.7	763.8	680.9	599.0	536.5	488.8	458.1	442.2	443.3	442.2
62.5°	709.3	679.7	620.6	552.4	487.6	445.6	402.4	389.9	376.2	375.1	375.1
65°	558.1	535.4	487.6	438.7	389.9	362.6	341.0	326.2	316.0	313.7	314.9
67.5°	419.4	410.3	377.4	344.4	313.7	296.7	278.5	275.1	267.1	267.1	269.4
70°	312.6	305.8	287.6	268.3	255.7	244.4	235.3	235.3	234.2	233.0	238.7
72.5°	226.2	227.3	221.6	206.9	205.7	203.5	201.2	204.6	205.7	209.1	216.0
75°	159.1	162.5	162.5	160.3	164.8	170.5	173.9	179.6	186.4	191.0	198.9
77.5°	112.5	112.5	118.2	125.0	134.1	144.4	153.4	161.4	170.5	176.2	183.0
80°	72.7	76.2	85.2	97.8	110.3	123.9	136.4	146.6	155.7	164.8	169.4
82.5°	43.2	48.9	60.2	76.2	92.1	109.1	121.6	134.1	144.4	153.4	156.9
85°	21.6	29.6	43.2	60.2	77.3	95.5	111.4	122.8	134.1	142.1	146.6
87.5°	6.8	15.9	30.7	46.6	64.8	83.0	100.0	112.5	122.8	129.6	134.1
90°	0.0	8.0	21.6	38.6	55.7	73.9	89.8	103.4	113.7	119.3	122.8
92.5°	0.0	4.5	17.0	31.8	47.7	65.9	81.8	94.3	103.4	109.1	111.4
95°	1.1	3.4	12.5	26.1	42.1	59.1	73.9	85.2	94.3	100.0	101.2
97.5°	1.1	2.3	10.2	21.6	36.4	52.3	67.1	78.4	85.2	90.9	92.1
100°	1.1	2.3	8.0	19.3	31.8	46.6	60.2	70.5	78.4	83.0	84.1
102.5°	1.1	1.1	6.8	15.9	28.4	40.9	53.4	63.7	70.5	75.0	77.3
105°	1.1	1.1	5.7	13.6	25.0	36.4	47.7	58.0	63.7	68.2	70.5
107.5°	1.1	1.1	4.5	11.4	21.6	31.8	43.2	51.1	58.0	62.5	64.8
110°	1.1	1.1	3.4	10.2	18.2	28.4	37.5	45.5	52.3	56.8	59.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	1.1	3.4	9.1	15.9	25.0	33.0	40.9	46.6	51.1	54.6
115°	1.1	1.1	3.4	8.0	14.8	21.6	29.6	36.4	42.1	46.6	50.0
117.5°	1.1	1.1	3.4	6.8	12.5	19.3	26.1	33.0	37.5	42.1	45.5
120°	1.1	1.1	2.3	5.7	11.4	17.0	22.7	28.4	34.1	38.6	42.1
122.5°	1.1	1.1	2.3	5.7	9.1	14.8	20.5	25.0	30.7	34.1	37.5
125°	1.1	1.1	2.3	4.5	8.0	13.6	18.2	22.7	26.1	30.7	34.1
127.5°	1.1	1.1	2.3	4.5	6.8	11.4	15.9	20.5	23.9	27.3	29.6
130°	1.1	1.1	2.3	3.4	5.7	9.1	13.6	17.0	21.6	23.9	26.1
132.5°	1.1	1.1	1.1	3.4	4.5	6.8	10.2	14.8	18.2	21.6	22.7
135°	1.1	1.1	1.1	2.3	4.5	5.7	8.0	11.4	14.8	18.2	20.5
137.5°	1.1	1.1	1.1	2.3	3.4	5.7	6.8	9.1	12.5	14.8	18.2
140°	1.1	1.1	1.1	2.3	3.4	4.5	5.7	8.0	10.2	12.5	14.8
142.5°	1.1	1.1	1.1	2.3	2.3	3.4	4.5	6.8	8.0	10.2	12.5
145°	1.1	1.1	1.1	2.3	2.3	3.4	4.5	5.7	6.8	8.0	10.2
147.5°	1.1	1.1	1.1	2.3	2.3	2.3	3.4	4.5	5.7	6.8	8.0
150°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.5	5.7	6.8
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	3.4	4.5	5.7
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.5	4.5
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°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2181.2	2183.5	2197.2	2196.0	2193.7	2191.5	2191.5	2189.2	2191.5	2197.2	2194.9
5°	2169.9	2173.3	2183.5	2182.4	2180.1	2179.0	2177.8	2174.4	2176.7	2184.7	2182.4
7.5°	2149.4	2152.8	2161.9	2157.4	2154.0	2156.2	2150.6	2147.1	2151.7	2159.6	2158.5
10°	2127.8	2130.1	2141.5	2139.2	2133.5	2134.6	2129.0	2126.7	2132.4	2136.9	2138.0
12.5°	2113.0	2121.0	2131.2	2130.1	2129.0	2130.1	2124.4	2122.1	2125.5	2130.1	2129.0
15°	2109.6	2119.9	2131.2	2131.2	2132.4	2133.5	2127.8	2124.4	2127.8	2131.2	2130.1
17.5°	2106.2	2118.7	2129.0	2127.8	2129.0	2131.2	2122.1	2119.9	2124.4	2129.0	2126.7
20°	2094.9	2106.2	2113.0	2110.8	2110.8	2111.9	2100.5	2100.5	2107.4	2110.8	2111.9
22.5°	2063.0	2076.7	2076.7	2071.0	2071.0	2066.4	2063.0	2056.2	2064.2	2069.8	2074.4
25°	2015.3	2021.0	2014.2	2001.6	1994.8	1989.1	1973.2	1986.9	1986.9	2003.9	2009.6
27.5°	1948.2	1935.7	1916.4	1890.3	1884.6	1866.4	1856.2	1859.6	1865.3	1889.1	1907.3
30°	1838.0	1800.5	1767.5	1756.1	1731.1	1712.9	1694.8	1703.8	1714.1	1727.7	1765.2
32.5°	1692.5	1656.1	1602.7	1583.4	1557.2	1534.5	1512.9	1526.5	1544.7	1553.8	1594.7
35°	1525.4	1482.2	1433.3	1400.4	1373.1	1360.6	1333.3	1352.6	1371.9	1378.8	1414.0
37.5°	1348.1	1303.7	1260.6	1232.1	1206.0	1198.0	1179.8	1193.5	1208.3	1218.5	1248.0
40°	1179.8	1138.9	1106.0	1086.6	1068.5	1061.6	1054.8	1060.5	1071.9	1079.8	1102.6
42.5°	1035.5	1002.5	979.8	968.4	955.9	946.8	948.0	950.2	955.9	973.0	983.2
45°	909.3	890.0	875.2	873.0	865.0	863.9	862.7	867.3	870.7	880.9	888.9
47.5°	808.2	800.2	796.8	801.3	804.8	800.2	802.5	808.2	815.0	815.0	813.8
50°	728.6	730.9	735.4	745.6	752.5	754.7	757.0	763.8	765.0	767.2	763.8
52.5°	663.8	666.1	678.6	694.5	702.5	705.9	710.4	717.2	717.2	719.5	715.0
55°	597.9	601.3	613.8	629.7	636.5	641.1	645.6	650.2	653.6	658.1	654.7
57.5°	525.1	535.4	543.3	547.9	552.4	555.8	559.2	560.4	567.2	568.3	574.0
60°	447.8	450.1	458.1	456.9	453.5	462.6	458.1	466.0	474.0	484.2	485.4
62.5°	374.0	375.1	380.8	378.5	383.1	381.9	385.3	385.3	391.0	395.6	401.2
65°	316.0	317.1	321.7	321.7	320.5	323.9	327.4	329.6	329.6	333.0	337.6
67.5°	272.8	276.2	280.8	283.0	285.3	285.3	288.7	289.8	292.1	293.3	295.5
70°	243.2	247.8	252.3	254.6	255.7	258.0	259.2	259.2	261.4	262.6	264.8
72.5°	221.6	226.2	229.6	229.6	231.9	233.0	233.0	234.2	235.3	237.6	239.8
75°	203.5	206.9	209.1	208.0	208.0	208.0	209.1	209.1	211.4	213.7	216.0
77.5°	186.4	189.8	189.8	187.5	187.5	187.5	187.5	188.7	189.8	192.1	194.4
80°	173.9	173.9	172.8	172.8	170.5	169.4	169.4	170.5	170.5	172.8	176.2
82.5°	160.3	160.3	159.1	158.0	156.9	155.7	155.7	156.9	158.0	159.1	161.4
85°	147.8	147.8	145.5	145.5	144.4	144.4	144.4	144.4	145.5	146.6	148.9
87.5°	135.3	134.1	133.0	131.9	131.9	131.9	131.9	131.9	133.0	135.3	136.4
90°	122.8	121.6	120.5	120.5	119.3	119.3	120.5	120.5	121.6	122.8	123.9
92.5°	111.4	110.3	109.1	109.1	108.0	108.0	109.1	108.0	110.3	110.3	111.4
95°	101.2	100.0	98.9	98.9	98.9	98.9	98.9	98.9	100.0	100.0	101.2
97.5°	92.1	90.9	89.8	89.8	90.9	89.8	90.9	90.9	90.9	92.1	93.2
100°	84.1	83.0	83.0	84.1	83.0	83.0	84.1	84.1	84.1	84.1	85.2
102.5°	77.3	77.3	77.3	77.3	77.3	77.3	78.4	78.4	78.4	78.4	79.6
105°	70.5	71.6	71.6	71.6	72.7	72.7	72.7	73.9	73.9	73.9	73.9
107.5°	65.9	67.1	67.1	68.2	68.2	69.3	69.3	69.3	69.3	70.5	70.5
110°	61.4	62.5	63.7	64.8	64.8	65.9	65.9	65.9	65.9	65.9	65.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	56.8	58.0	59.1	61.4	62.5	62.5	62.5	62.5	63.7	63.7	62.5
115°	52.3	54.6	55.7	58.0	59.1	59.1	60.2	60.2	60.2	60.2	59.1
117.5°	47.7	51.1	52.3	54.6	55.7	55.7	56.8	56.8	56.8	56.8	55.7
120°	44.3	46.6	48.9	50.0	51.1	52.3	52.3	53.4	53.4	53.4	52.3
122.5°	40.9	43.2	45.5	46.6	47.7	48.9	48.9	48.9	48.9	48.9	48.9
125°	36.4	38.6	40.9	42.1	43.2	44.3	44.3	45.5	45.5	45.5	44.3
127.5°	33.0	35.2	36.4	38.6	39.8	39.8	40.9	40.9	40.9	40.9	39.8
130°	28.4	30.7	33.0	34.1	35.2	35.2	36.4	36.4	36.4	36.4	36.4
132.5°	25.0	27.3	28.4	30.7	30.7	31.8	31.8	33.0	33.0	33.0	31.8
135°	22.7	23.9	25.0	27.3	27.3	28.4	28.4	28.4	28.4	28.4	28.4
137.5°	20.5	21.6	22.7	23.9	23.9	25.0	25.0	25.0	25.0	26.1	25.0
140°	17.0	19.3	20.5	20.5	21.6	21.6	21.6	22.7	22.7	22.7	21.6
142.5°	14.8	15.9	17.0	18.2	19.3	19.3	19.3	19.3	20.5	19.3	19.3
145°	11.4	13.6	14.8	15.9	17.0	17.0	17.0	17.0	17.0	17.0	17.0
147.5°	9.1	10.2	12.5	13.6	13.6	14.8	14.8	14.8	14.8	14.8	14.8
150°	8.0	8.0	10.2	11.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5
152.5°	5.7	6.8	8.0	9.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
155°	5.7	5.7	6.8	6.8	8.0	8.0	8.0	8.0	9.1	8.0	8.0
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: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2191.5	2190.3	2194.9	2190.3	2167.6	2176.7	2173.3	2185.8	2186.9	2190.3	2201.7
5°	2180.1	2180.1	2185.8	2181.2	2159.6	2168.7	2167.6	2180.1	2182.4	2184.7	2197.2
7.5°	2157.4	2158.5	2166.5	2163.1	2140.3	2154.0	2152.8	2167.6	2172.1	2176.7	2188.1
10°	2135.8	2134.6	2143.7	2140.3	2118.7	2134.6	2133.5	2148.3	2155.1	2163.1	2176.7
12.5°	2124.4	2121.0	2124.4	2121.0	2097.1	2109.6	2110.8	2127.8	2135.8	2146.0	2161.9
15°	2124.4	2118.7	2118.7	2111.9	2084.6	2092.6	2093.7	2105.1	2115.3	2125.5	2144.9
17.5°	2122.1	2116.5	2115.3	2109.6	2080.1	2080.1	2078.9	2086.9	2092.6	2102.8	2123.3
20°	2109.6	2107.4	2106.2	2102.8	2075.5	2071.0	2068.7	2068.7	2072.1	2075.5	2096.0
22.5°	2076.7	2078.9	2081.2	2083.5	2061.9	2053.9	2055.1	2052.8	2049.4	2049.4	2066.4
25°	2015.3	2026.7	2035.7	2046.0	2033.5	2027.8	2034.6	2031.2	2025.5	2021.0	2035.7
27.5°	1917.5	1941.4	1960.7	1985.7	1986.9	1982.3	2000.5	1998.2	1997.1	1990.3	2001.6
30°	1782.3	1819.8	1845.9	1882.3	1913.0	1917.5	1948.2	1952.8	1957.3	1953.9	1965.3
32.5°	1618.6	1669.7	1714.1	1770.9	1800.5	1826.6	1869.8	1888.0	1906.2	1911.9	1924.4
35°	1440.1	1498.1	1550.4	1612.9	1659.5	1716.3	1768.6	1795.9	1836.8	1852.7	1870.9
37.5°	1270.8	1325.3	1376.5	1439.0	1514.0	1573.1	1637.9	1699.3	1755.0	1777.7	1805.0
40°	1120.7	1165.1	1213.9	1268.5	1336.7	1414.0	1484.5	1569.7	1635.6	1681.1	1720.9
42.5°	1007.1	1028.7	1070.7	1119.6	1174.2	1252.6	1324.2	1419.7	1499.2	1564.0	1630.0
45°	905.9	916.1	946.8	973.0	1028.7	1098.0	1174.2	1267.4	1350.3	1433.3	1512.9
47.5°	819.5	832.0	846.8	862.7	902.5	960.5	1026.4	1110.5	1193.5	1290.1	1381.0
50°	761.6	765.0	767.2	774.1	797.9	837.7	891.1	962.7	1042.3	1145.7	1242.4
52.5°	710.4	710.4	703.6	700.2	709.3	734.3	765.0	816.1	898.0	993.4	1095.7
55°	655.8	645.6	643.3	632.0	634.3	645.6	660.4	700.2	767.2	849.1	948.0
57.5°	579.7	575.1	575.1	570.6	561.5	567.2	570.6	599.0	646.8	717.2	803.6
60°	492.2	489.9	495.6	496.7	488.8	492.2	491.0	508.1	542.2	599.0	670.6
62.5°	404.6	414.9	416.0	420.6	416.0	414.9	420.6	435.3	452.4	495.6	551.3
65°	339.9	345.5	346.7	352.4	350.1	350.1	354.6	366.0	376.2	405.8	449.0
67.5°	297.8	295.5	296.7	300.1	296.7	295.5	298.9	305.8	313.7	331.9	362.6
70°	264.8	262.6	262.6	262.6	258.0	254.6	255.7	258.0	261.4	271.7	291.0
72.5°	239.8	239.8	236.4	233.0	229.6	227.3	225.1	222.8	221.6	225.1	235.3
75°	217.1	218.2	217.1	213.7	209.1	204.6	200.1	195.5	189.8	187.5	188.7
77.5°	196.6	197.8	198.9	197.8	193.2	187.5	180.7	173.9	166.0	158.0	153.4
80°	178.5	180.7	181.9	180.7	177.3	172.8	164.8	156.9	145.5	135.3	123.9
82.5°	162.5	166.0	167.1	167.1	164.8	160.3	151.2	142.1	129.6	115.9	101.2
85°	150.0	152.3	154.6	154.6	153.4	148.9	139.8	129.6	117.1	101.2	85.2
87.5°	137.5	138.7	140.9	143.2	140.9	136.4	128.4	117.1	104.6	88.7	70.5
90°	125.0	126.2	128.4	130.7	129.6	125.0	118.2	108.0	94.3	77.3	59.1
92.5°	112.5	114.8	115.9	117.1	118.2	114.8	109.1	98.9	85.2	68.2	51.1
95°	103.4	103.4	105.7	106.8	108.0	104.6	100.0	89.8	77.3	61.4	44.3
97.5°	94.3	94.3	96.6	96.6	97.8	95.5	90.9	81.8	69.3	54.6	37.5
100°	85.2	86.4	87.5	88.7	88.7	87.5	83.0	73.9	62.5	48.9	33.0
102.5°	79.6	79.6	80.7	80.7	81.8	79.6	75.0	67.1	55.7	43.2	28.4
105°	73.9	73.9	75.0	75.0	73.9	71.6	67.1	60.2	50.0	37.5	25.0
107.5°	69.3	69.3	69.3	69.3	68.2	65.9	61.4	53.4	44.3	34.1	22.7
110°	65.9	64.8	64.8	63.7	62.5	59.1	54.6	47.7	39.8	29.6	19.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	62.5	61.4	60.2	59.1	56.8	53.4	48.9	43.2	35.2	26.1	17.0
115°	59.1	58.0	56.8	54.6	52.3	48.9	44.3	38.6	30.7	22.7	14.8
117.5°	55.7	54.6	52.3	50.0	47.7	44.3	39.8	34.1	27.3	20.5	13.6
120°	51.1	50.0	48.9	46.6	44.3	39.8	35.2	30.7	23.9	18.2	11.4
122.5°	47.7	46.6	44.3	43.2	39.8	36.4	31.8	27.3	21.6	15.9	10.2
125°	43.2	42.1	40.9	38.6	36.4	31.8	28.4	23.9	19.3	13.6	8.0
127.5°	39.8	38.6	36.4	34.1	31.8	28.4	25.0	21.6	17.0	11.4	8.0
130°	35.2	34.1	33.0	30.7	28.4	25.0	22.7	18.2	14.8	10.2	6.8
132.5°	30.7	30.7	29.6	27.3	25.0	22.7	19.3	15.9	12.5	9.1	5.7
135°	28.4	27.3	26.1	23.9	22.7	19.3	17.0	13.6	10.2	8.0	4.5
137.5°	25.0	23.9	22.7	21.6	19.3	17.0	14.8	11.4	9.1	6.8	4.5
140°	21.6	20.5	20.5	18.2	17.0	14.8	12.5	10.2	8.0	5.7	3.4
142.5°	19.3	18.2	17.0	15.9	14.8	12.5	10.2	8.0	6.8	4.5	3.4
145°	17.0	15.9	14.8	13.6	12.5	10.2	9.1	6.8	5.7	4.5	3.4
147.5°	13.6	13.6	12.5	11.4	10.2	9.1	8.0	6.8	4.5	3.4	2.3
150°	11.4	11.4	10.2	9.1	9.1	8.0	6.8	5.7	4.5	3.4	2.3
152.5°	10.2	9.1	9.1	8.0	8.0	6.8	5.7	4.5	3.4	3.4	2.3
155°	8.0	8.0	8.0	6.8	6.8	5.7	4.5	4.5	3.4	2.3	2.3
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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2204.0	2190.3	2201.7	2222.2	2219.9	2217.6	2215.3	2219.9	2234.7	2226.7	2214.2
5°	2200.6	2186.9	2199.4	2218.8	2217.6	2214.2	2211.9	2216.5	2231.3	2223.3	2209.7
7.5°	2193.7	2181.2	2190.3	2209.7	2209.7	2207.4	2205.1	2209.7	2223.3	2216.5	2202.8
10°	2182.4	2173.3	2182.4	2200.6	2201.7	2197.2	2194.9	2200.6	2214.2	2210.8	2199.4
12.5°	2173.3	2164.2	2174.4	2192.6	2193.7	2189.2	2185.8	2192.6	2210.8	2213.1	2209.7
15°	2160.8	2152.8	2165.3	2184.7	2184.7	2181.2	2181.2	2190.3	2215.3	2225.6	2231.3
17.5°	2142.6	2136.9	2151.7	2171.0	2172.1	2169.9	2171.0	2189.2	2222.2	2247.2	2263.1
20°	2119.9	2117.6	2133.5	2154.0	2157.4	2158.5	2164.2	2191.5	2236.9	2271.0	2286.9
22.5°	2092.6	2093.7	2111.9	2133.5	2138.0	2141.5	2152.8	2191.5	2248.3	2284.7	2291.5
25°	2061.9	2065.3	2084.6	2110.8	2116.5	2123.3	2142.6	2192.6	2251.7	2275.6	2264.2
27.5°	2028.9	2035.7	2060.8	2088.0	2094.9	2106.2	2131.2	2185.8	2235.8	2236.9	2194.9
30°	1994.8	2002.8	2032.3	2064.2	2075.5	2086.9	2117.6	2169.9	2197.2	2160.8	2086.9
32.5°	1956.2	1967.5	1997.1	2035.7	2049.4	2064.2	2094.9	2139.2	2129.0	2050.5	1944.8
35°	1907.3	1923.2	1957.3	2002.8	2015.3	2034.6	2056.2	2066.4	2021.0	1909.6	1790.2
37.5°	1847.1	1870.9	1910.7	1963.0	1976.6	1989.1	1994.8	1966.4	1875.5	1755.0	1631.1
40°	1777.7	1814.1	1857.3	1915.3	1928.9	1928.9	1908.4	1848.2	1733.4	1575.4	1437.9
42.5°	1693.6	1737.9	1792.5	1850.5	1864.1	1848.2	1799.3	1693.6	1562.9	1386.7	1241.2
45°	1591.3	1650.4	1711.8	1772.0	1778.9	1743.6	1656.1	1522.0	1360.6	1196.9	1058.2
47.5°	1469.7	1547.0	1614.0	1682.2	1673.2	1614.0	1497.0	1344.7	1174.2	1019.6	908.2
50°	1333.3	1424.2	1499.2	1564.0	1544.7	1462.9	1325.3	1166.2	996.8	865.0	772.9
52.5°	1187.8	1292.4	1367.4	1419.7	1393.5	1295.8	1144.6	992.3	853.6	733.1	671.8
55°	1036.6	1142.3	1219.6	1260.6	1226.5	1120.7	971.8	833.2	702.5	624.0	587.7
57.5°	890.0	988.9	1061.6	1094.6	1051.4	945.7	808.2	691.1	596.7	530.8	512.6
60°	749.1	829.8	899.1	924.1	877.5	779.7	661.5	568.3	499.0	453.5	444.4
62.5°	618.3	684.3	738.8	758.1	712.7	636.5	534.2	464.9	416.0	393.3	381.9
65°	510.4	549.0	604.7	601.3	574.0	503.5	428.5	379.6	347.8	333.0	326.2
67.5°	401.2	436.5	471.7	476.3	442.2	393.3	344.4	309.2	292.1	284.2	280.8
70°	310.3	336.4	358.0	352.4	334.2	303.5	272.8	253.5	246.7	243.2	243.2
72.5°	241.0	254.6	264.8	258.0	246.7	230.7	216.0	208.0	209.1	211.4	213.7
75°	186.4	189.8	192.1	185.3	183.0	172.8	171.6	172.8	179.6	186.4	189.8
77.5°	143.2	138.7	135.3	128.4	129.6	128.4	134.1	143.2	153.4	163.7	172.8
80°	110.3	100.0	92.1	85.2	88.7	94.3	105.7	119.3	133.0	144.4	155.7
82.5°	85.2	70.5	59.1	52.3	59.1	68.2	83.0	100.0	115.9	128.4	140.9
85°	65.9	48.9	35.2	28.4	35.2	48.9	64.8	84.1	101.2	114.8	127.3
87.5°	51.1	35.2	19.3	11.4	19.3	34.1	52.3	70.5	87.5	103.4	115.9
90°	40.9	23.9	9.1	2.3	10.2	23.9	40.9	59.1	76.2	93.2	105.7
92.5°	33.0	17.0	4.5	0.0	5.7	18.2	34.1	51.1	68.2	84.1	96.6
95°	27.3	13.6	3.4	0.0	4.5	13.6	27.3	44.3	60.2	76.2	86.4
97.5°	22.7	10.2	2.3	0.0	2.3	11.4	22.7	37.5	53.4	68.2	78.4
100°	19.3	9.1	2.3	0.0	2.3	9.1	19.3	33.0	46.6	60.2	70.5
102.5°	15.9	6.8	1.1	1.1	1.1	6.8	17.0	28.4	40.9	53.4	63.7
105°	14.8	5.7	1.1	1.1	1.1	5.7	14.8	25.0	36.4	47.7	56.8
107.5°	12.5	4.5	1.1	1.1	1.1	4.5	12.5	21.6	33.0	43.2	51.1
110°	10.2	4.5	1.1	1.1	1.1	4.5	10.2	19.3	28.4	37.5	45.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.1	3.4	1.1	1.1	1.1	3.4	9.1	17.0	25.0	34.1	40.9
115°	8.0	3.4	1.1	1.1	1.1	3.4	8.0	14.8	21.6	29.6	36.4
117.5°	6.8	3.4	1.1	1.1	1.1	2.3	6.8	12.5	19.3	26.1	33.0
120°	5.7	2.3	1.1	1.1	1.1	2.3	5.7	11.4	17.0	22.7	28.4
122.5°	5.7	2.3	1.1	1.1	1.1	2.3	4.5	9.1	14.8	19.3	25.0
125°	4.5	2.3	1.1	1.1	1.1	1.1	4.5	8.0	12.5	17.0	21.6
127.5°	4.5	2.3	1.1	1.1	1.1	1.1	3.4	6.8	10.2	14.8	19.3
130°	3.4	2.3	1.1	1.1	1.1	1.1	2.3	5.7	9.1	12.5	15.9
132.5°	3.4	2.3	1.1	1.1	1.1	1.1	2.3	4.5	6.8	10.2	13.6
135°	3.4	1.1	1.1	1.1	1.1	1.1	1.1	3.4	5.7	8.0	10.2
137.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	2.3	4.5	5.7	9.1
140°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.5	6.8
142.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	5.7
145°	2.3	1.1	1.1	2.3	2.3	1.1	1.1	2.3	2.3	3.4	4.5
147.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2211.9	2185.8	2199.4	2194.9	2199.4	2210.8	2209.7	2206.2	2208.5	2202.8	2197.2
5°	2207.4	2181.2	2194.9	2189.2	2194.9	2206.2	2204.0	2200.6	2204.0	2197.2	2191.5
7.5°	2201.7	2177.8	2193.7	2192.6	2202.8	2217.6	2218.8	2218.8	2226.7	2216.5	2211.9
10°	2201.7	2189.2	2210.8	2218.8	2244.9	2264.2	2266.5	2271.0	2284.7	2282.4	2271.0
12.5°	2225.6	2223.3	2255.1	2274.4	2298.3	2325.6	2340.4	2344.9	2354.0	2347.2	2342.6
15°	2256.3	2267.6	2302.9	2324.5	2350.6	2371.1	2374.5	2376.7	2383.6	2373.3	2365.4
17.5°	2297.2	2304.0	2332.4	2341.5	2358.6	2362.0	2357.4	2346.1	2346.1	2323.3	2316.5
20°	2316.5	2313.1	2324.5	2309.7	2302.9	2282.4	2263.1	2241.5	2240.3	2216.5	2214.2
22.5°	2299.5	2276.7	2252.9	2216.5	2200.6	2171.0	2144.9	2132.4	2124.4	2093.7	2085.8
25°	2239.2	2183.5	2148.3	2105.1	2066.4	2032.3	2007.3	1981.2	1956.2	1931.2	1919.8
27.5°	2134.6	2082.4	2025.5	1965.3	1911.9	1859.6	1817.5	1791.4	1767.5	1734.5	1717.5
30°	2006.2	1933.5	1870.9	1813.0	1725.4	1661.8	1626.6	1574.3	1556.1	1541.3	1509.5
32.5°	1855.0	1767.5	1682.2	1603.8	1514.0	1454.9	1408.3	1369.7	1358.3	1319.7	1310.6
35°	1687.9	1573.1	1476.5	1399.2	1334.4	1262.8	1224.2	1198.0	1175.3	1149.2	1144.6
37.5°	1491.3	1387.9	1278.7	1210.5	1159.4	1098.0	1068.5	1050.3	1040.0	1020.7	1017.3
40°	1293.5	1190.1	1115.1	1046.9	1015.0	982.1	960.5	952.5	948.0	941.2	934.3
42.5°	1113.9	1023.0	969.6	924.1	910.5	894.5	888.9	893.4	888.9	886.6	885.5
45°	961.6	892.3	854.8	841.1	837.7	833.2	837.7	845.7	846.8	844.5	844.5
47.5°	822.9	790.0	774.1	776.3	782.0	785.4	793.4	803.6	805.9	800.2	802.5
50°	732.0	712.7	709.3	718.4	730.9	735.4	744.5	752.5	751.3	749.1	746.8
52.5°	646.8	641.1	650.2	659.3	672.9	675.2	678.6	682.0	680.9	676.3	674.0
55°	575.1	579.7	587.7	591.1	601.3	600.2	601.3	601.3	596.7	594.5	591.1
57.5°	510.4	511.5	516.0	517.2	522.9	520.6	519.5	517.2	510.4	509.2	505.8
60°	444.4	442.2	452.4	444.4	449.0	444.4	443.3	437.6	430.8	429.7	427.4
62.5°	381.9	377.4	384.2	380.8	383.1	378.5	376.2	369.4	363.7	362.6	361.5
65°	326.2	323.9	330.8	329.6	331.9	326.2	323.9	319.4	314.9	313.7	312.6
67.5°	279.6	285.3	288.7	288.7	291.0	289.8	284.2	283.0	281.9	277.3	277.3
70°	245.5	248.9	255.7	256.9	255.7	258.0	253.5	252.3	251.2	248.9	247.8
72.5°	218.2	222.8	229.6	230.7	229.6	229.6	227.3	226.2	226.2	222.8	222.8
75°	196.6	202.3	208.0	208.0	208.0	205.7	203.5	203.5	201.2	200.1	197.8
77.5°	178.5	185.3	189.8	188.7	187.5	185.3	185.3	181.9	178.5	178.5	176.2
80°	164.8	169.4	172.8	171.6	170.5	167.1	166.0	162.5	160.3	156.9	156.9
82.5°	150.0	155.7	158.0	156.9	154.6	151.2	150.0	147.8	145.5	144.4	142.1
85°	137.5	143.2	144.4	142.1	139.8	137.5	136.4	135.3	134.1	131.9	131.9
87.5°	125.0	130.7	130.7	129.6	127.3	126.2	125.0	123.9	122.8	121.6	120.5
90°	114.8	119.3	119.3	118.2	117.1	115.9	114.8	113.7	112.5	111.4	111.4
92.5°	104.6	109.1	109.1	108.0	106.8	105.7	105.7	104.6	103.4	102.3	101.2
95°	95.5	100.0	100.0	100.0	98.9	97.8	97.8	96.6	95.5	95.5	94.3
97.5°	86.4	90.9	90.9	90.9	89.8	88.7	88.7	87.5	87.5	87.5	86.4
100°	78.4	81.8	83.0	83.0	81.8	81.8	81.8	80.7	80.7	80.7	79.6
102.5°	70.5	73.9	76.2	76.2	76.2	75.0	75.0	75.0	75.0	75.0	73.9
105°	63.7	67.1	69.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
107.5°	58.0	61.4	63.7	64.8	65.9	65.9	67.1	67.1	67.1	67.1	67.1
110°	52.3	55.7	59.1	60.2	61.4	62.5	62.5	63.7	62.5	62.5	62.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	46.6	51.1	53.4	55.7	56.8	58.0	59.1	59.1	59.1	59.1	59.1
115°	42.1	46.6	48.9	51.1	53.4	54.6	54.6	55.7	55.7	55.7	54.6
117.5°	37.5	42.1	44.3	46.6	47.7	50.0	51.1	51.1	51.1	51.1	50.0
120°	34.1	37.5	39.8	42.1	44.3	45.5	46.6	46.6	46.6	46.6	46.6
122.5°	29.6	33.0	36.4	38.6	39.8	40.9	42.1	42.1	42.1	42.1	42.1
125°	26.1	29.6	31.8	34.1	35.2	37.5	37.5	37.5	37.5	37.5	37.5
127.5°	22.7	26.1	28.4	30.7	31.8	33.0	34.1	34.1	34.1	34.1	34.1
130°	19.3	22.7	25.0	27.3	28.4	29.6	29.6	30.7	30.7	30.7	30.7
132.5°	17.0	19.3	21.6	23.9	25.0	26.1	26.1	27.3	27.3	27.3	27.3
135°	13.6	17.0	18.2	20.5	21.6	22.7	22.7	23.9	23.9	23.9	23.9
137.5°	11.4	13.6	15.9	18.2	19.3	19.3	20.5	20.5	21.6	21.6	21.6
140°	9.1	10.2	13.6	14.8	15.9	17.0	18.2	18.2	18.2	18.2	18.2
142.5°	6.8	9.1	10.2	12.5	13.6	14.8	15.9	15.9	15.9	15.9	15.9
145°	5.7	6.8	8.0	10.2	11.4	12.5	13.6	13.6	13.6	13.6	13.6
147.5°	4.5	5.7	6.8	8.0	9.1	10.2	11.4	11.4	11.4	11.4	11.4
150°	3.4	4.5	5.7	5.7	6.8	8.0	9.1	10.2	10.2	10.2	10.2
152.5°	3.4	3.4	4.5	4.5	5.7	6.8	8.0	8.0	8.0	8.0	8.0
155°	2.3	3.4	3.4	3.4	4.5	4.5	5.7	6.8	6.8	6.8	6.8
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: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2200.6	2205.1	2202.8	2199.4	2198.3	2204.0	2198.3	2172.1	2182.4	2183.5	2191.5
5°	2197.2	2200.6	2198.3	2196.0	2192.6	2199.4	2192.6	2165.3	2175.6	2176.7	2184.7
7.5°	2219.9	2221.0	2221.0	2215.3	2206.2	2209.7	2200.6	2169.9	2175.6	2175.6	2181.2
10°	2276.7	2279.0	2282.4	2267.6	2256.3	2247.2	2234.7	2197.2	2196.0	2186.9	2186.9
12.5°	2350.6	2344.9	2339.2	2332.4	2323.3	2312.0	2293.8	2249.4	2234.7	2219.9	2205.1
15°	2372.2	2369.9	2368.8	2365.4	2359.7	2356.3	2342.6	2298.3	2276.7	2258.5	2232.4
17.5°	2315.4	2319.9	2334.7	2335.8	2342.6	2356.3	2354.0	2323.3	2304.0	2296.0	2264.2
20°	2213.1	2214.2	2232.4	2240.3	2269.9	2292.6	2309.7	2306.3	2301.7	2310.8	2286.9
22.5°	2090.3	2098.3	2117.6	2130.1	2158.5	2184.7	2211.9	2226.7	2250.6	2288.1	2283.5
25°	1923.2	1933.5	1960.7	1981.2	2021.0	2060.8	2097.1	2123.3	2151.7	2223.3	2247.2
27.5°	1723.2	1739.1	1774.3	1794.8	1850.5	1891.4	1943.7	1994.8	2034.6	2116.5	2165.3
30°	1512.9	1526.5	1564.0	1592.5	1640.2	1695.9	1761.8	1834.6	1900.5	1983.5	2044.8
32.5°	1316.2	1331.0	1361.7	1386.7	1440.1	1486.7	1559.5	1649.3	1710.7	1825.5	1907.3
35°	1144.6	1158.3	1179.8	1201.4	1245.8	1293.5	1356.0	1443.6	1522.0	1641.3	1744.8
37.5°	1024.1	1026.4	1038.9	1051.4	1084.4	1120.7	1169.6	1246.9	1319.7	1448.1	1561.8
40°	937.7	937.7	944.6	948.0	962.7	984.3	1015.0	1075.3	1135.5	1233.3	1371.9
42.5°	884.3	882.0	882.0	883.2	882.0	892.3	910.5	938.9	992.3	1073.0	1181.0
45°	844.5	840.0	836.6	828.6	824.1	824.1	825.2	835.4	866.1	918.4	1005.9
47.5°	800.2	799.1	793.4	784.3	776.3	770.7	761.6	758.1	767.2	796.8	855.9
50°	749.1	743.4	737.7	730.9	721.8	716.1	699.0	700.2	692.2	705.9	736.6
52.5°	674.0	669.5	667.2	661.5	658.1	655.8	642.2	628.6	625.2	627.4	638.8
55°	591.1	593.3	584.2	588.8	587.7	577.4	571.7	561.5	558.1	557.0	562.6
57.5°	504.7	506.9	501.3	505.8	505.8	500.1	496.7	496.7	488.8	481.9	489.9
60°	426.2	421.7	425.1	430.8	430.8	427.4	425.1	425.1	419.4	417.2	422.8
62.5°	362.6	358.0	361.5	367.1	368.3	366.0	363.7	363.7	356.9	356.9	361.5
65°	313.7	314.9	313.7	318.3	318.3	319.4	317.1	314.9	306.9	310.3	309.2
67.5°	278.5	277.3	277.3	281.9	280.8	283.0	280.8	277.3	271.7	267.1	266.0
70°	248.9	247.8	247.8	250.1	251.2	251.2	250.1	247.8	239.8	235.3	231.9
72.5°	222.8	221.6	222.8	223.9	225.1	226.2	225.1	222.8	216.0	210.3	204.6
75°	198.9	197.8	201.2	201.2	202.3	202.3	203.5	202.3	196.6	189.8	183.0
77.5°	175.0	176.2	179.6	180.7	183.0	184.1	185.3	185.3	179.6	173.9	164.8
80°	155.7	158.0	160.3	161.4	163.7	167.1	168.2	169.4	164.8	159.1	148.9
82.5°	142.1	143.2	145.5	146.6	150.0	151.2	152.3	154.6	152.3	146.6	135.3
85°	130.7	131.9	134.1	134.1	136.4	138.7	139.8	140.9	139.8	134.1	122.8
87.5°	120.5	121.6	122.8	123.9	125.0	126.2	127.3	128.4	127.3	121.6	111.4
90°	111.4	111.4	112.5	112.5	113.7	114.8	117.1	117.1	115.9	111.4	101.2
92.5°	101.2	102.3	102.3	103.4	104.6	105.7	106.8	106.8	105.7	101.2	92.1
95°	94.3	94.3	95.5	95.5	96.6	96.6	97.8	97.8	96.6	92.1	83.0
97.5°	86.4	86.4	86.4	86.4	87.5	87.5	88.7	88.7	87.5	83.0	75.0
100°	79.6	79.6	79.6	79.6	79.6	80.7	80.7	80.7	79.6	75.0	67.1
102.5°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	71.6	68.2	60.2
105°	70.5	70.5	70.5	69.3	69.3	69.3	68.2	68.2	64.8	61.4	54.6
107.5°	65.9	65.9	65.9	64.8	64.8	63.7	62.5	62.5	59.1	55.7	48.9
110°	62.5	62.5	62.5	61.4	60.2	59.1	58.0	56.8	53.4	48.9	43.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	59.1	59.1	58.0	58.0	56.8	55.7	53.4	52.3	48.9	44.3	38.6
115°	54.6	54.6	54.6	53.4	52.3	51.1	50.0	47.7	44.3	39.8	34.1
117.5°	50.0	50.0	50.0	48.9	47.7	46.6	45.5	43.2	39.8	35.2	30.7
120°	45.5	45.5	45.5	44.3	43.2	42.1	40.9	38.6	35.2	31.8	26.1
122.5°	42.1	42.1	40.9	39.8	38.6	37.5	36.4	34.1	31.8	27.3	22.7
125°	37.5	37.5	36.4	36.4	35.2	34.1	33.0	30.7	27.3	23.9	20.5
127.5°	34.1	33.0	33.0	33.0	31.8	30.7	28.4	27.3	23.9	20.5	17.0
130°	29.6	29.6	29.6	28.4	28.4	27.3	25.0	22.7	20.5	18.2	14.8
132.5°	26.1	26.1	26.1	26.1	25.0	23.9	21.6	20.5	18.2	14.8	12.5
135°	23.9	23.9	22.7	22.7	21.6	20.5	19.3	17.0	14.8	12.5	10.2
137.5°	20.5	20.5	20.5	19.3	19.3	18.2	15.9	14.8	13.6	11.4	9.1
140°	18.2	18.2	17.0	17.0	15.9	15.9	14.8	12.5	11.4	9.1	8.0
142.5°	15.9	15.9	14.8	14.8	13.6	13.6	12.5	11.4	9.1	8.0	5.7
145°	13.6	13.6	12.5	12.5	12.5	11.4	10.2	9.1	8.0	6.8	5.7
147.5°	11.4	11.4	11.4	10.2	10.2	9.1	9.1	8.0	6.8	5.7	4.5
150°	10.2	10.2	9.1	9.1	9.1	8.0	6.8	6.8	5.7	4.5	3.4
152.5°	8.0	8.0	8.0	8.0	6.8	6.8	5.7	5.7	4.5	3.4	3.4
155°	6.8	6.8	6.8	5.7	5.7	5.7	4.5	4.5	3.4	3.4	2.3
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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6	2200.6
2.5°	2188.1	2186.9	2197.2	2196.0	2182.4	2202.8	2216.5
5°	2182.4	2181.2	2190.3	2192.6	2177.8	2199.4	2214.2
7.5°	2177.8	2176.7	2186.9	2190.3	2175.6	2194.9	2210.8
10°	2179.0	2173.3	2182.4	2184.7	2171.0	2191.5	2205.1
12.5°	2186.9	2173.3	2176.7	2176.7	2164.2	2182.4	2197.2
15°	2206.2	2177.8	2173.3	2169.9	2154.0	2171.0	2185.8
17.5°	2227.8	2189.2	2173.3	2161.9	2142.6	2157.4	2173.3
20°	2249.4	2201.7	2175.6	2157.4	2131.2	2144.9	2156.2
22.5°	2259.7	2213.1	2177.8	2150.6	2117.6	2124.4	2136.9
25°	2246.0	2208.5	2173.3	2140.3	2100.5	2101.7	2111.9
27.5°	2196.0	2185.8	2163.1	2130.1	2086.9	2081.2	2089.2
30°	2110.8	2139.2	2140.3	2116.5	2071.0	2059.6	2063.0
32.5°	1991.4	2055.1	2092.6	2088.0	2048.3	2032.3	2034.6
35°	1853.9	1933.5	2015.3	2042.6	2014.2	2001.6	1997.1
37.5°	1689.1	1795.9	1905.0	1972.1	1967.5	1959.6	1955.0
40°	1507.2	1635.6	1765.2	1872.1	1905.0	1905.0	1907.3
42.5°	1312.8	1462.9	1605.0	1740.2	1817.5	1834.6	1841.4
45°	1125.3	1276.5	1431.0	1586.8	1690.2	1743.6	1763.0
47.5°	954.8	1107.1	1253.7	1424.2	1561.8	1631.1	1661.8
50°	809.3	923.0	1077.5	1246.9	1396.9	1482.2	1542.4
52.5°	688.8	777.5	912.7	1070.7	1221.9	1339.0	1394.7
55°	587.7	647.9	762.7	899.1	1043.4	1165.1	1229.9
57.5°	502.4	550.1	628.6	742.2	863.9	984.3	1053.7
60°	427.4	460.3	513.8	603.6	707.0	810.4	877.5
62.5°	362.6	384.2	419.4	485.4	566.1	646.8	709.3
65°	312.6	321.7	341.0	381.9	443.3	504.7	558.1
67.5°	263.7	269.4	284.2	309.2	339.9	384.2	419.4
70°	227.3	227.3	228.5	243.2	259.2	287.6	312.6
72.5°	197.8	194.4	187.5	191.0	194.4	210.3	226.2
75°	173.9	166.0	154.6	150.0	147.8	150.0	159.1
77.5°	153.4	142.1	128.4	117.1	108.0	104.6	112.5
80°	136.4	122.8	106.8	92.1	77.3	69.3	72.7
82.5°	122.8	105.7	88.7	71.6	54.6	43.2	43.2
85°	108.0	92.1	73.9	55.7	38.6	23.9	21.6
87.5°	97.8	80.7	61.4	44.3	27.3	12.5	6.8
90°	87.5	70.5	52.3	35.2	19.3	5.7	0.0
92.5°	78.4	62.5	45.5	28.4	13.6	3.4	0.0
95°	70.5	55.7	38.6	23.9	11.4	2.3	1.1
97.5°	62.5	48.9	34.1	19.3	8.0	2.3	1.1
100°	56.8	43.2	29.6	15.9	6.8	1.1	1.1
102.5°	50.0	38.6	25.0	13.6	5.7	1.1	1.1
105°	44.3	34.1	21.6	11.4	4.5	1.1	1.1
107.5°	39.8	29.6	19.3	10.2	4.5	1.1	1.1
110°	35.2	26.1	17.0	9.1	3.4	1.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	31.8	22.7	14.8	8.0	2.3	1.1	1.1
115°	27.3	20.5	12.5	6.8	2.3	1.1	1.1
117.5°	23.9	17.0	11.4	5.7	2.3	1.1	1.1
120°	20.5	14.8	9.1	4.5	1.1	1.1	1.1
122.5°	18.2	12.5	8.0	4.5	1.1	1.1	1.1
125°	15.9	11.4	6.8	3.4	1.1	1.1	1.1
127.5°	13.6	9.1	5.7	2.3	1.1	1.1	1.1
130°	11.4	8.0	4.5	2.3	1.1	1.1	1.1
132.5°	9.1	6.8	4.5	2.3	1.1	1.1	1.1
135°	8.0	5.7	3.4	2.3	1.1	1.1	1.1
137.5°	6.8	4.5	2.3	2.3	2.3	1.1	1.1
140°	5.7	3.4	2.3	2.3	2.3	2.3	1.1
142.5°	4.5	3.4	2.3	2.3	2.3	2.3	1.1
145°	3.4	2.3	2.3	2.3	2.3	2.3	1.1
147.5°	3.4	2.3	2.3	2.3	2.3	2.3	1.1
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)