

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-LD5-68SL-LC-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

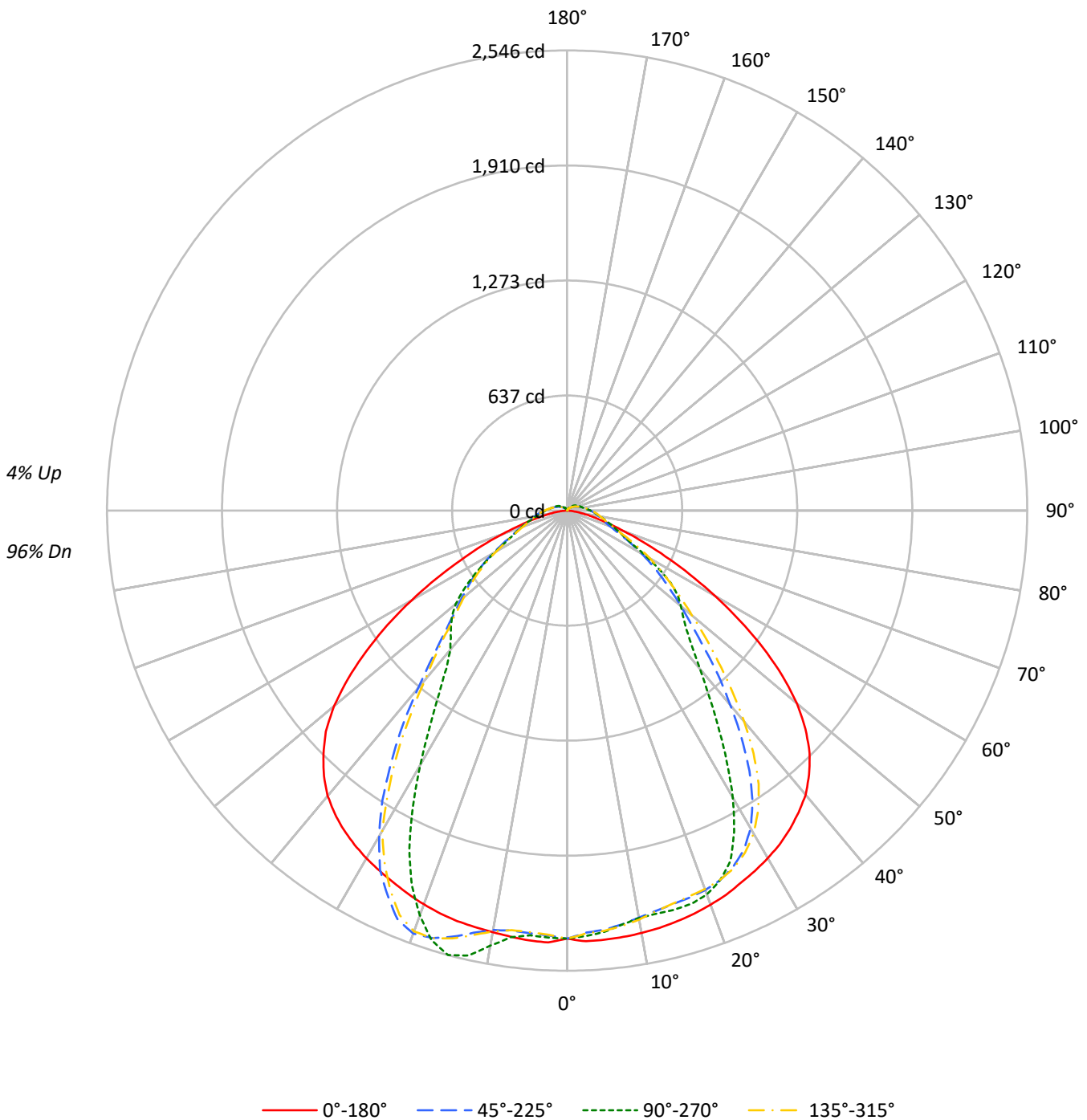
Lumens per Lamp: N/A
Luminaire Lumens: 5646.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 50
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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CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

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°	9570	9570	9570	9570
5°	9652	9190	9672	9262
10°	9710	8808	9690	9406
15°	9800	8690	9794	9676
20°	9922	8552	9911	9015
25°	10060	8113	10054	7839
30°	10266	7032	10272	6230
35°	10487	5686	10517	4812
40°	10687	4578	10732	4034
45°	10675	3878	10730	3776
50°	10244	3570	10388	3490
55°	9120	3209	9349	2917
60°	7431	2456	7826	2253
65°	5557	1879	5986	1782
70°	3811	1622	4295	1551
75°	2527	1464	2941	1384
80°	1674	1365	1960	1255
85°	913	1362	1204	1243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	4.0
10°-20°	669.4	11.9
20°-30°	1017.6	18.0
30°-40°	1091.6	19.3
40°-50°	947.4	16.8
50°-60°	702.1	12.4
60°-70°	402.3	7.1
70°-80°	222.8	3.9
80°-90°	135.7	2.4
90°-100°	88.2	1.6
100°-110°	59.1	1.0
110°-120°	39.9	0.7
120°-130°	24.5	0.4
130°-140°	12.9	0.2
140°-150°	5.9	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1911.9	33.9
0°-40°	3003.6	53.2
0°-60°	4653.1	82.4
0°-90°	5413.9	95.9
90°-120°	187.2	3.3
90°-150°	230.4	4.1
90°-180°	232.0	4.1
0°-180°	5646.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2368	2368	2368	2368	2368	
5°	2383	2340	2388	2359	2383	227
15°	2352	2286	2351	2546	2352	666
25°	2273	2138	2272	2066	2273	1051
35°	2149	1456	2156	1232	2149	1345
45°	1897	933	1907	909	1897	1453
55°	1324	700	1357	636	1324	1174
65°	601	355	647	336	601	606
75°	171	225	199	213	171	196
85°	23	155	31	142	23	31
90°	0	130	2	120	0	1
95°	1	106	0	102	1	1
105°	1	80	1	76	1	1
115°	1	65	1	59	1	1
125°	1	49	1	40	1	1
135°	1	31	1	26	1	1
145°	1	18	2	15	1	1
155°	2	9	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: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2385.5	2379.4	2376.9	2372.0	2375.7	2390.4	2380.6	2364.7	2365.9	2337.8	2352.5
5°	2383.0	2375.7	2372.0	2367.1	2369.6	2383.0	2373.2	2357.3	2356.1	2328.0	2341.4
7.5°	2379.4	2372.0	2365.9	2362.2	2363.5	2374.5	2362.2	2343.9	2340.2	2309.6	2321.9
10°	2373.2	2368.4	2359.8	2353.7	2352.5	2364.7	2345.1	2326.8	2318.2	2286.4	2298.6
12.5°	2364.7	2357.3	2348.8	2337.8	2336.5	2343.9	2328.0	2302.3	2293.7	2268.0	2281.5
15°	2352.5	2343.9	2334.1	2321.9	2315.8	2320.6	2301.1	2277.8	2276.6	2254.6	2272.9
17.5°	2339.0	2326.8	2315.8	2298.6	2290.1	2293.7	2277.8	2257.0	2259.5	2246.0	2266.8
20°	2320.6	2307.2	2290.1	2272.9	2260.7	2266.8	2255.8	2239.9	2243.6	2233.8	2252.1
22.5°	2299.8	2281.5	2260.7	2241.1	2231.3	2239.9	2231.3	2217.9	2219.1	2213.0	2224.0
25°	2272.9	2252.1	2227.7	2203.2	2198.3	2204.4	2199.5	2188.5	2183.6	2173.8	2178.7
27.5°	2248.5	2225.2	2194.6	2169.0	2160.4	2172.6	2161.6	2143.3	2129.8	2116.3	2106.6
30°	2220.3	2192.2	2157.9	2128.6	2121.2	2126.1	2110.2	2082.1	2046.6	2029.5	2002.6
32.5°	2189.7	2153.0	2110.2	2077.2	2072.3	2068.6	2039.3	1998.9	1943.9	1909.6	1868.0
35°	2149.4	2109.0	2057.6	2017.3	2009.9	1989.1	1941.4	1887.6	1816.6	1757.9	1687.0
37.5°	2104.1	2056.4	2002.6	1948.8	1928.0	1886.4	1819.1	1762.8	1655.2	1584.2	1498.6
40°	2052.7	1995.2	1929.2	1864.3	1830.1	1762.8	1685.7	1602.6	1498.6	1403.2	1331.0
42.5°	1981.8	1920.6	1842.3	1770.1	1711.4	1622.1	1531.6	1414.2	1318.7	1238.0	1164.6
45°	1897.4	1824.0	1733.4	1646.6	1572.0	1465.5	1359.1	1241.7	1162.2	1068.0	1017.8
47.5°	1788.5	1709.0	1612.3	1515.7	1417.8	1300.4	1189.1	1076.5	997.0	929.7	893.0
50°	1660.0	1586.7	1480.2	1365.2	1257.6	1135.2	1023.9	939.5	862.4	820.8	792.7
52.5°	1501.0	1432.5	1323.6	1198.9	1094.9	975.0	873.5	804.9	749.9	719.3	709.5
55°	1323.6	1263.7	1156.0	1039.8	933.4	823.3	746.2	686.3	650.8	632.5	633.7
57.5°	1134.0	1087.5	986.0	882.0	781.7	698.5	628.8	581.1	554.2	552.9	556.6
60°	944.4	910.2	822.1	732.8	644.7	577.4	526.0	493.0	475.9	477.1	475.9
62.5°	763.4	731.5	667.9	594.5	524.8	479.5	433.1	419.6	404.9	403.7	403.7
65°	600.7	576.2	524.8	472.2	419.6	390.2	367.0	351.1	340.1	337.6	338.9
67.5°	451.4	441.6	406.1	370.7	337.6	319.3	299.7	296.0	287.5	287.5	289.9
70°	336.4	329.1	309.5	288.7	275.2	263.0	253.2	253.2	252.0	250.8	256.9
72.5°	243.4	244.7	238.5	222.6	221.4	219.0	216.5	220.2	221.4	225.1	232.4
75°	171.3	174.9	174.9	172.5	177.4	183.5	187.2	193.3	200.6	205.5	214.1
77.5°	121.1	121.1	127.2	134.6	144.4	155.4	165.1	173.7	183.5	189.6	197.0
80°	78.3	82.0	91.7	105.2	118.7	133.3	146.8	157.8	167.6	177.4	182.3
82.5°	46.5	52.6	64.8	82.0	99.1	117.4	130.9	144.4	155.4	165.1	168.8
85°	23.2	31.8	46.5	64.8	83.2	102.8	119.9	132.1	144.4	152.9	157.8
87.5°	7.3	17.1	33.0	50.2	69.7	89.3	107.7	121.1	132.1	139.5	144.4
90°	0.0	8.6	23.2	41.6	59.9	79.5	96.6	111.3	122.3	128.4	132.1
92.5°	0.0	4.9	18.3	34.3	51.4	71.0	88.1	101.5	111.3	117.4	119.9
95°	1.2	3.7	13.5	28.1	45.3	63.6	79.5	91.7	101.5	107.7	108.9
97.5°	1.2	2.4	11.0	23.2	39.1	56.3	72.2	84.4	91.7	97.9	99.1
100°	1.2	2.4	8.6	20.8	34.3	50.2	64.8	75.8	84.4	89.3	90.5
102.5°	1.2	1.2	7.3	17.1	30.6	44.0	57.5	68.5	75.8	80.7	83.2
105°	1.2	1.2	6.1	14.7	26.9	39.1	51.4	62.4	68.5	73.4	75.8
107.5°	1.2	1.2	4.9	12.2	23.2	34.3	46.5	55.0	62.4	67.3	69.7
110°	1.2	1.2	3.7	11.0	19.6	30.6	40.4	48.9	56.3	61.2	63.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	1.2	3.7	9.8	17.1	26.9	35.5	44.0	50.2	55.0	58.7
115°	1.2	1.2	3.7	8.6	15.9	23.2	31.8	39.1	45.3	50.2	53.8
117.5°	1.2	1.2	3.7	7.3	13.5	20.8	28.1	35.5	40.4	45.3	48.9
120°	1.2	1.2	2.4	6.1	12.2	18.3	24.5	30.6	36.7	41.6	45.3
122.5°	1.2	1.2	2.4	6.1	9.8	15.9	22.0	26.9	33.0	36.7	40.4
125°	1.2	1.2	2.4	4.9	8.6	14.7	19.6	24.5	28.1	33.0	36.7
127.5°	1.2	1.2	2.4	4.9	7.3	12.2	17.1	22.0	25.7	29.4	31.8
130°	1.2	1.2	2.4	3.7	6.1	9.8	14.7	18.3	23.2	25.7	28.1
132.5°	1.2	1.2	1.2	3.7	4.9	7.3	11.0	15.9	19.6	23.2	24.5
135°	1.2	1.2	1.2	2.4	4.9	6.1	8.6	12.2	15.9	19.6	22.0
137.5°	1.2	1.2	1.2	2.4	3.7	6.1	7.3	9.8	13.5	15.9	19.6
140°	1.2	1.2	1.2	2.4	3.7	4.9	6.1	8.6	11.0	13.5	15.9
142.5°	1.2	1.2	1.2	2.4	2.4	3.7	4.9	7.3	8.6	11.0	13.5
145°	1.2	1.2	1.2	2.4	2.4	3.7	4.9	6.1	7.3	8.6	11.0
147.5°	1.2	1.2	1.2	2.4	2.4	2.4	3.7	4.9	6.1	7.3	8.6
150°	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	4.9	6.1	7.3
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	6.1
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	4.9	4.9
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-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2347.6	2350.0	2364.7	2363.5	2361.0	2358.6	2358.6	2356.1	2358.6	2364.7	2362.2
5°	2335.3	2339.0	2350.0	2348.8	2346.3	2345.1	2343.9	2340.2	2342.7	2351.2	2348.8
7.5°	2313.3	2317.0	2326.8	2321.9	2318.2	2320.6	2314.5	2310.9	2315.8	2324.3	2323.1
10°	2290.1	2292.5	2304.7	2302.3	2296.2	2297.4	2291.3	2288.8	2295.0	2299.8	2301.1
12.5°	2274.2	2282.7	2293.7	2292.5	2291.3	2292.5	2286.4	2283.9	2287.6	2292.5	2291.3
15°	2270.5	2281.5	2293.7	2293.7	2295.0	2296.2	2290.1	2286.4	2290.1	2293.7	2292.5
17.5°	2266.8	2280.3	2291.3	2290.1	2291.3	2293.7	2283.9	2281.5	2286.4	2291.3	2288.8
20°	2254.6	2266.8	2274.2	2271.7	2271.7	2272.9	2260.7	2260.7	2268.0	2271.7	2272.9
22.5°	2220.3	2235.0	2235.0	2228.9	2228.9	2224.0	2220.3	2213.0	2221.6	2227.7	2232.6
25°	2169.0	2175.1	2167.7	2154.3	2146.9	2140.8	2123.7	2138.4	2138.4	2156.7	2162.8
27.5°	2096.8	2083.3	2062.5	2034.4	2028.3	2008.7	1997.7	2001.4	2007.5	2033.2	2052.7
30°	1978.1	1937.7	1902.3	1890.0	1863.1	1843.5	1824.0	1833.8	1844.8	1859.5	1899.8
32.5°	1821.5	1782.4	1724.9	1704.1	1676.0	1651.5	1628.2	1642.9	1662.5	1672.3	1716.3
35°	1641.7	1595.2	1542.6	1507.1	1477.8	1464.3	1435.0	1455.8	1476.6	1483.9	1521.8
37.5°	1450.9	1403.2	1356.7	1326.1	1297.9	1289.4	1269.8	1284.5	1300.4	1311.4	1343.2
40°	1269.8	1225.8	1190.3	1169.5	1149.9	1142.6	1135.2	1141.4	1153.6	1162.2	1186.6
42.5°	1114.4	1079.0	1054.5	1042.3	1028.8	1019.0	1020.3	1022.7	1028.8	1047.2	1058.2
45°	978.7	957.9	942.0	939.5	930.9	929.7	928.5	933.4	937.1	948.1	956.6
47.5°	869.8	861.2	857.5	862.4	866.1	861.2	863.7	869.8	877.1	877.1	875.9
50°	784.2	786.6	791.5	802.5	809.8	812.3	814.7	822.1	823.3	825.7	822.1
52.5°	714.4	716.9	730.3	747.5	756.0	759.7	764.6	771.9	771.9	774.4	769.5
55°	643.5	647.1	660.6	677.7	685.1	690.0	694.8	699.7	703.4	708.3	704.6
57.5°	565.2	576.2	584.7	589.6	594.5	598.2	601.9	603.1	610.4	611.7	617.8
60°	482.0	484.4	493.0	491.8	488.1	497.9	493.0	501.6	510.1	521.1	522.4
62.5°	402.5	403.7	409.8	407.4	412.3	411.0	414.7	414.7	420.8	425.7	431.8
65°	340.1	341.3	346.2	346.2	345.0	348.6	352.3	354.8	354.8	358.4	363.3
67.5°	293.6	297.3	302.2	304.6	307.1	307.1	310.7	311.9	314.4	315.6	318.1
70°	261.8	266.7	271.6	274.0	275.2	277.7	278.9	278.9	281.4	282.6	285.0
72.5°	238.5	243.4	247.1	247.1	249.6	250.8	250.8	252.0	253.2	255.7	258.1
75°	219.0	222.6	225.1	223.9	223.9	223.9	225.1	225.1	227.5	230.0	232.4
77.5°	200.6	204.3	204.3	201.8	201.8	201.8	201.8	203.1	204.3	206.7	209.2
80°	187.2	187.2	185.9	185.9	183.5	182.3	182.3	183.5	183.5	185.9	189.6
82.5°	172.5	172.5	171.3	170.0	168.8	167.6	167.6	168.8	170.0	171.3	173.7
85°	159.0	159.0	156.6	156.6	155.4	155.4	155.4	155.4	156.6	157.8	160.3
87.5°	145.6	144.4	143.1	141.9	141.9	141.9	141.9	141.9	143.1	145.6	146.8
90°	132.1	130.9	129.7	129.7	128.4	128.4	129.7	129.7	130.9	132.1	133.3
92.5°	119.9	118.7	117.4	117.4	116.2	116.2	117.4	116.2	118.7	118.7	119.9
95°	108.9	107.7	106.4	106.4	106.4	106.4	106.4	106.4	107.7	107.7	108.9
97.5°	99.1	97.9	96.6	96.6	97.9	96.6	97.9	97.9	97.9	99.1	100.3
100°	90.5	89.3	89.3	90.5	89.3	89.3	90.5	90.5	90.5	90.5	91.7
102.5°	83.2	83.2	83.2	83.2	83.2	83.2	84.4	84.4	84.4	84.4	85.6
105°	75.8	77.1	77.1	77.1	78.3	78.3	78.3	79.5	79.5	79.5	79.5
107.5°	71.0	72.2	72.2	73.4	73.4	74.6	74.6	74.6	74.6	75.8	75.8
110°	66.1	67.3	68.5	69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	61.2	62.4	63.6	66.1	67.3	67.3	67.3	67.3	68.5	68.5	67.3
115°	56.3	58.7	59.9	62.4	63.6	63.6	64.8	64.8	64.8	64.8	63.6
117.5°	51.4	55.0	56.3	58.7	59.9	59.9	61.2	61.2	61.2	61.2	59.9
120°	47.7	50.2	52.6	53.8	55.0	56.3	56.3	57.5	57.5	57.5	56.3
122.5°	44.0	46.5	48.9	50.2	51.4	52.6	52.6	52.6	52.6	52.6	52.6
125°	39.1	41.6	44.0	45.3	46.5	47.7	47.7	48.9	48.9	48.9	47.7
127.5°	35.5	37.9	39.1	41.6	42.8	42.8	44.0	44.0	44.0	44.0	42.8
130°	30.6	33.0	35.5	36.7	37.9	37.9	39.1	39.1	39.1	39.1	39.1
132.5°	26.9	29.4	30.6	33.0	33.0	34.3	34.3	35.5	35.5	35.5	34.3
135°	24.5	25.7	26.9	29.4	29.4	30.6	30.6	30.6	30.6	30.6	30.6
137.5°	22.0	23.2	24.5	25.7	25.7	26.9	26.9	26.9	26.9	28.1	26.9
140°	18.3	20.8	22.0	22.0	23.2	23.2	23.2	24.5	24.5	24.5	23.2
142.5°	15.9	17.1	18.3	19.6	20.8	20.8	20.8	20.8	22.0	20.8	20.8
145°	12.2	14.7	15.9	17.1	18.3	18.3	18.3	18.3	18.3	18.3	18.3
147.5°	9.8	11.0	13.5	14.7	14.7	15.9	15.9	15.9	15.9	15.9	15.9
150°	8.6	8.6	11.0	12.2	13.5	13.5	13.5	13.5	13.5	13.5	13.5
152.5°	6.1	7.3	8.6	9.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0
155°	6.1	6.1	7.3	7.3	8.6	8.6	8.6	8.6	9.8	8.6	8.6
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-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2358.6	2357.3	2362.2	2357.3	2332.9	2342.7	2339.0	2352.5	2353.7	2357.3	2369.6
5°	2346.3	2346.3	2352.5	2347.6	2324.3	2334.1	2332.9	2346.3	2348.8	2351.2	2364.7
7.5°	2321.9	2323.1	2331.7	2328.0	2303.5	2318.2	2317.0	2332.9	2337.8	2342.7	2354.9
10°	2298.6	2297.4	2307.2	2303.5	2280.3	2297.4	2296.2	2312.1	2319.4	2328.0	2342.7
12.5°	2286.4	2282.7	2286.4	2282.7	2257.0	2270.5	2271.7	2290.1	2298.6	2309.6	2326.8
15°	2286.4	2280.3	2280.3	2272.9	2243.6	2252.1	2253.4	2265.6	2276.6	2287.6	2308.4
17.5°	2283.9	2277.8	2276.6	2270.5	2238.7	2238.7	2237.5	2246.0	2252.1	2263.1	2285.2
20°	2270.5	2268.0	2266.8	2263.1	2233.8	2228.9	2226.4	2226.4	2230.1	2233.8	2255.8
22.5°	2235.0	2237.5	2239.9	2242.4	2219.1	2210.5	2211.8	2209.3	2205.7	2205.7	2224.0
25°	2169.0	2181.2	2191.0	2202.0	2188.5	2182.4	2189.7	2186.1	2180.0	2175.1	2191.0
27.5°	2063.7	2089.4	2110.2	2137.1	2138.4	2133.5	2153.0	2150.6	2149.4	2142.0	2154.3
30°	1918.2	1958.5	1986.7	2025.8	2058.9	2063.7	2096.8	2101.7	2106.6	2102.9	2115.1
32.5°	1742.0	1797.1	1844.8	1905.9	1937.7	1965.9	2012.4	2031.9	2051.5	2057.6	2071.1
35°	1550.0	1612.3	1668.6	1735.9	1786.1	1847.2	1903.5	1932.9	1976.9	1994.0	2013.6
37.5°	1367.7	1426.4	1481.4	1548.7	1629.5	1693.1	1762.8	1828.9	1888.8	1913.3	1942.6
40°	1206.2	1253.9	1306.5	1365.2	1438.6	1521.8	1597.7	1689.4	1760.4	1809.3	1852.1
42.5°	1083.9	1107.1	1152.4	1205.0	1263.7	1348.1	1425.2	1527.9	1613.6	1683.3	1754.2
45°	975.0	986.0	1019.0	1047.2	1107.1	1181.7	1263.7	1364.0	1453.3	1542.6	1628.2
47.5°	882.0	895.5	911.4	928.5	971.3	1033.7	1104.7	1195.2	1284.5	1388.5	1486.3
50°	819.6	823.3	825.7	833.1	858.8	901.6	959.1	1036.2	1121.8	1233.1	1337.1
52.5°	764.6	764.6	757.2	753.6	763.4	790.3	823.3	878.3	966.4	1069.2	1179.3
55°	705.9	694.8	692.4	680.2	682.6	694.8	710.8	753.6	825.7	913.8	1020.3
57.5°	623.9	619.0	619.0	614.1	604.3	610.4	614.1	644.7	696.1	771.9	864.9
60°	529.7	527.3	533.4	534.6	526.0	529.7	528.5	546.8	583.5	644.7	721.8
62.5°	435.5	446.5	447.7	452.6	447.7	446.5	452.6	468.5	486.9	533.4	593.3
65°	365.8	371.9	373.1	379.2	376.8	376.8	381.7	393.9	404.9	436.7	483.2
67.5°	320.5	318.1	319.3	323.0	319.3	318.1	321.7	329.1	337.6	357.2	390.2
70°	285.0	282.6	282.6	282.6	277.7	274.0	275.2	277.7	281.4	292.4	313.2
72.5°	258.1	258.1	254.5	250.8	247.1	244.7	242.2	239.8	238.5	242.2	253.2
75°	233.7	234.9	233.7	230.0	225.1	220.2	215.3	210.4	204.3	201.8	203.1
77.5°	211.6	212.9	214.1	212.9	208.0	201.8	194.5	187.2	178.6	170.0	165.1
80°	192.1	194.5	195.7	194.5	190.8	185.9	177.4	168.8	156.6	145.6	133.3
82.5°	174.9	178.6	179.8	179.8	177.4	172.5	162.7	152.9	139.5	124.8	108.9
85°	161.5	163.9	166.4	166.4	165.1	160.3	150.5	139.5	126.0	108.9	91.7
87.5°	148.0	149.2	151.7	154.1	151.7	146.8	138.2	126.0	112.5	95.4	75.8
90°	134.6	135.8	138.2	140.7	139.5	134.6	127.2	116.2	101.5	83.2	63.6
92.5°	121.1	123.6	124.8	126.0	127.2	123.6	117.4	106.4	91.7	73.4	55.0
95°	111.3	111.3	113.8	115.0	116.2	112.5	107.7	96.6	83.2	66.1	47.7
97.5°	101.5	101.5	104.0	104.0	105.2	102.8	97.9	88.1	74.6	58.7	40.4
100°	91.7	93.0	94.2	95.4	95.4	94.2	89.3	79.5	67.3	52.6	35.5
102.5°	85.6	85.6	86.9	86.9	88.1	85.6	80.7	72.2	59.9	46.5	30.6
105°	79.5	79.5	80.7	80.7	79.5	77.1	72.2	64.8	53.8	40.4	26.9
107.5°	74.6	74.6	74.6	74.6	73.4	71.0	66.1	57.5	47.7	36.7	24.5
110°	71.0	69.7	69.7	68.5	67.3	63.6	58.7	51.4	42.8	31.8	20.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	67.3	66.1	64.8	63.6	61.2	57.5	52.6	46.5	37.9	28.1	18.3
115°	63.6	62.4	61.2	58.7	56.3	52.6	47.7	41.6	33.0	24.5	15.9
117.5°	59.9	58.7	56.3	53.8	51.4	47.7	42.8	36.7	29.4	22.0	14.7
120°	55.0	53.8	52.6	50.2	47.7	42.8	37.9	33.0	25.7	19.6	12.2
122.5°	51.4	50.2	47.7	46.5	42.8	39.1	34.3	29.4	23.2	17.1	11.0
125°	46.5	45.3	44.0	41.6	39.1	34.3	30.6	25.7	20.8	14.7	8.6
127.5°	42.8	41.6	39.1	36.7	34.3	30.6	26.9	23.2	18.3	12.2	8.6
130°	37.9	36.7	35.5	33.0	30.6	26.9	24.5	19.6	15.9	11.0	7.3
132.5°	33.0	33.0	31.8	29.4	26.9	24.5	20.8	17.1	13.5	9.8	6.1
135°	30.6	29.4	28.1	25.7	24.5	20.8	18.3	14.7	11.0	8.6	4.9
137.5°	26.9	25.7	24.5	23.2	20.8	18.3	15.9	12.2	9.8	7.3	4.9
140°	23.2	22.0	22.0	19.6	18.3	15.9	13.5	11.0	8.6	6.1	3.7
142.5°	20.8	19.6	18.3	17.1	15.9	13.5	11.0	8.6	7.3	4.9	3.7
145°	18.3	17.1	15.9	14.7	13.5	11.0	9.8	7.3	6.1	4.9	3.7
147.5°	14.7	14.7	13.5	12.2	11.0	9.8	8.6	7.3	4.9	3.7	2.4
150°	12.2	12.2	11.0	9.8	9.8	8.6	7.3	6.1	4.9	3.7	2.4
152.5°	11.0	9.8	9.8	8.6	8.6	7.3	6.1	4.9	3.7	3.7	2.4
155°	8.6	8.6	8.6	7.3	7.3	6.1	4.9	4.9	3.7	2.4	2.4
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-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2372.0	2357.3	2369.6	2391.6	2389.2	2386.7	2384.3	2389.2	2405.1	2396.5	2383.0
5°	2368.4	2353.7	2367.1	2387.9	2386.7	2383.0	2380.6	2385.5	2401.4	2392.8	2378.1
7.5°	2361.0	2347.6	2357.3	2378.1	2378.1	2375.7	2373.2	2378.1	2392.8	2385.5	2370.8
10°	2348.8	2339.0	2348.8	2368.4	2369.6	2364.7	2362.2	2368.4	2383.0	2379.4	2367.1
12.5°	2339.0	2329.2	2340.2	2359.8	2361.0	2356.1	2352.5	2359.8	2379.4	2381.8	2378.1
15°	2325.5	2317.0	2330.4	2351.2	2351.2	2347.6	2347.6	2357.3	2384.3	2395.3	2401.4
17.5°	2306.0	2299.8	2315.8	2336.5	2337.8	2335.3	2336.5	2356.1	2391.6	2418.5	2435.6
20°	2281.5	2279.1	2296.2	2318.2	2321.9	2323.1	2329.2	2358.6	2407.5	2444.2	2461.3
22.5°	2252.1	2253.4	2272.9	2296.2	2301.1	2304.7	2317.0	2358.6	2419.7	2458.9	2466.2
25°	2219.1	2222.8	2243.6	2271.7	2277.8	2285.2	2306.0	2359.8	2423.4	2449.1	2436.9
27.5°	2183.6	2191.0	2217.9	2247.2	2254.6	2266.8	2293.7	2352.5	2406.3	2407.5	2362.2
30°	2146.9	2155.5	2187.3	2221.6	2233.8	2246.0	2279.1	2335.3	2364.7	2325.5	2246.0
32.5°	2105.3	2117.6	2149.4	2191.0	2205.7	2221.6	2254.6	2302.3	2291.3	2206.9	2093.1
35°	2052.7	2069.9	2106.6	2155.5	2169.0	2189.7	2213.0	2224.0	2175.1	2055.2	1926.7
37.5°	1987.9	2013.6	2056.4	2112.7	2127.4	2140.8	2146.9	2116.3	2018.5	1888.8	1755.5
40°	1913.3	1952.4	1998.9	2061.3	2076.0	2076.0	2054.0	1989.1	1865.6	1695.5	1547.5
42.5°	1822.8	1870.5	1929.2	1991.6	2006.3	1989.1	1936.5	1822.8	1682.1	1492.5	1335.9
45°	1712.7	1776.3	1842.3	1907.2	1914.5	1876.6	1782.4	1638.0	1464.3	1288.2	1138.9
47.5°	1581.8	1664.9	1737.1	1810.5	1800.7	1737.1	1611.1	1447.2	1263.7	1097.3	977.4
50°	1435.0	1532.8	1613.6	1683.3	1662.5	1574.4	1426.4	1255.1	1072.9	930.9	831.9
52.5°	1278.4	1390.9	1471.7	1527.9	1499.8	1394.6	1231.9	1068.0	918.7	789.0	723.0
55°	1115.7	1229.4	1312.6	1356.7	1320.0	1206.2	1045.9	896.7	756.0	671.6	632.5
57.5°	957.9	1064.3	1142.6	1178.1	1131.6	1017.8	869.8	743.8	642.2	571.3	551.7
60°	806.2	893.0	967.6	994.6	944.4	839.2	712.0	611.7	537.0	488.1	478.3
62.5°	665.5	736.4	795.2	816.0	767.0	685.1	575.0	500.3	447.7	423.3	411.0
65°	549.3	590.9	650.8	647.1	617.8	541.9	461.2	408.6	374.3	358.4	351.1
67.5°	431.8	469.8	507.7	512.6	475.9	423.3	370.7	332.7	314.4	305.8	302.2
70°	334.0	362.1	385.3	379.2	359.7	326.6	293.6	272.8	265.5	261.8	261.8
72.5°	259.3	274.0	285.0	277.7	265.5	248.3	232.4	223.9	225.1	227.5	230.0
75°	200.6	204.3	206.7	199.4	197.0	185.9	184.7	185.9	193.3	200.6	204.3
77.5°	154.1	149.2	145.6	138.2	139.5	138.2	144.4	154.1	165.1	176.2	185.9
80°	118.7	107.7	99.1	91.7	95.4	101.5	113.8	128.4	143.1	155.4	167.6
82.5°	91.7	75.8	63.6	56.3	63.6	73.4	89.3	107.7	124.8	138.2	151.7
85°	71.0	52.6	37.9	30.6	37.9	52.6	69.7	90.5	108.9	123.6	137.0
87.5°	55.0	37.9	20.8	12.2	20.8	36.7	56.3	75.8	94.2	111.3	124.8
90°	44.0	25.7	9.8	2.4	11.0	25.7	44.0	63.6	82.0	100.3	113.8
92.5°	35.5	18.3	4.9	0.0	6.1	19.6	36.7	55.0	73.4	90.5	104.0
95°	29.4	14.7	3.7	0.0	4.9	14.7	29.4	47.7	64.8	82.0	93.0
97.5°	24.5	11.0	2.4	0.0	2.4	12.2	24.5	40.4	57.5	73.4	84.4
100°	20.8	9.8	2.4	0.0	2.4	9.8	20.8	35.5	50.2	64.8	75.8
102.5°	17.1	7.3	1.2	1.2	1.2	7.3	18.3	30.6	44.0	57.5	68.5
105°	15.9	6.1	1.2	1.2	1.2	6.1	15.9	26.9	39.1	51.4	61.2
107.5°	13.5	4.9	1.2	1.2	1.2	4.9	13.5	23.2	35.5	46.5	55.0
110°	11.0	4.9	1.2	1.2	1.2	4.9	11.0	20.8	30.6	40.4	48.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.8	3.7	1.2	1.2	1.2	3.7	9.8	18.3	26.9	36.7	44.0
115°	8.6	3.7	1.2	1.2	1.2	3.7	8.6	15.9	23.2	31.8	39.1
117.5°	7.3	3.7	1.2	1.2	1.2	2.4	7.3	13.5	20.8	28.1	35.5
120°	6.1	2.4	1.2	1.2	1.2	2.4	6.1	12.2	18.3	24.5	30.6
122.5°	6.1	2.4	1.2	1.2	1.2	2.4	4.9	9.8	15.9	20.8	26.9
125°	4.9	2.4	1.2	1.2	1.2	1.2	4.9	8.6	13.5	18.3	23.2
127.5°	4.9	2.4	1.2	1.2	1.2	1.2	3.7	7.3	11.0	15.9	20.8
130°	3.7	2.4	1.2	1.2	1.2	1.2	2.4	6.1	9.8	13.5	17.1
132.5°	3.7	2.4	1.2	1.2	1.2	1.2	2.4	4.9	7.3	11.0	14.7
135°	3.7	1.2	1.2	1.2	1.2	1.2	1.2	3.7	6.1	8.6	11.0
137.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	4.9	6.1	9.8
140°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.7	4.9	7.3
142.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.7	6.1
145°	2.4	1.2	1.2	2.4	2.4	1.2	1.2	2.4	2.4	3.7	4.9
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.7
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2380.6	2352.5	2367.1	2362.2	2367.1	2379.4	2378.1	2374.5	2376.9	2370.8	2364.7
5°	2375.7	2347.6	2362.2	2356.1	2362.2	2374.5	2372.0	2368.4	2372.0	2364.7	2358.6
7.5°	2369.6	2343.9	2361.0	2359.8	2370.8	2386.7	2387.9	2387.9	2396.5	2385.5	2380.6
10°	2369.6	2356.1	2379.4	2387.9	2416.1	2436.9	2439.3	2444.2	2458.9	2456.4	2444.2
12.5°	2395.3	2392.8	2427.1	2447.9	2473.6	2502.9	2518.8	2523.7	2533.5	2526.2	2521.3
15°	2428.3	2440.5	2478.5	2501.7	2529.8	2551.9	2555.5	2558.0	2565.3	2554.3	2545.7
17.5°	2472.3	2479.7	2510.3	2520.0	2538.4	2542.1	2537.2	2524.9	2524.9	2500.5	2493.1
20°	2493.1	2489.5	2501.7	2485.8	2478.5	2456.4	2435.6	2412.4	2411.2	2385.5	2383.0
22.5°	2474.8	2450.3	2424.6	2385.5	2368.4	2336.5	2308.4	2295.0	2286.4	2253.4	2244.8
25°	2409.9	2350.0	2312.1	2265.6	2224.0	2187.3	2160.4	2132.3	2105.3	2078.4	2066.2
27.5°	2297.4	2241.1	2180.0	2115.1	2057.6	2001.4	1956.1	1928.0	1902.3	1866.8	1848.4
30°	2159.2	2080.9	2013.6	1951.2	1857.0	1788.5	1750.6	1694.3	1674.7	1658.8	1624.6
32.5°	1996.5	1902.3	1810.5	1726.1	1629.5	1565.9	1515.7	1474.1	1461.9	1420.3	1410.5
35°	1816.6	1693.1	1589.1	1505.9	1436.2	1359.1	1317.5	1289.4	1264.9	1236.8	1231.9
37.5°	1605.0	1493.7	1376.2	1302.8	1247.8	1181.7	1149.9	1130.4	1119.3	1098.5	1094.9
40°	1392.1	1280.8	1200.1	1126.7	1092.4	1057.0	1033.7	1025.1	1020.3	1012.9	1005.6
42.5°	1198.9	1101.0	1043.5	994.6	979.9	962.8	956.6	961.5	956.6	954.2	953.0
45°	1034.9	960.3	919.9	905.3	901.6	896.7	901.6	910.2	911.4	908.9	908.9
47.5°	885.7	850.2	833.1	835.5	841.6	845.3	853.9	864.9	867.3	861.2	863.7
50°	787.8	767.0	763.4	773.1	786.6	791.5	801.3	809.8	808.6	806.2	803.7
52.5°	696.1	690.0	699.7	709.5	724.2	726.7	730.3	734.0	732.8	727.9	725.4
55°	619.0	623.9	632.5	636.1	647.1	645.9	647.1	647.1	642.2	639.8	636.1
57.5°	549.3	550.5	555.4	556.6	562.7	560.3	559.1	556.6	549.3	548.0	544.4
60°	478.3	475.9	486.9	478.3	483.2	478.3	477.1	471.0	463.6	462.4	460.0
62.5°	411.0	406.1	413.5	409.8	412.3	407.4	404.9	397.6	391.5	390.2	389.0
65°	351.1	348.6	356.0	354.8	357.2	351.1	348.6	343.8	338.9	337.6	336.4
67.5°	300.9	307.1	310.7	310.7	313.2	311.9	305.8	304.6	303.4	298.5	298.5
70°	264.2	267.9	275.2	276.5	275.2	277.7	272.8	271.6	270.4	267.9	266.7
72.5°	234.9	239.8	247.1	248.3	247.1	247.1	244.7	243.4	243.4	239.8	239.8
75°	211.6	217.8	223.9	223.9	223.9	221.4	219.0	219.0	216.5	215.3	212.9
77.5°	192.1	199.4	204.3	203.1	201.8	199.4	199.4	195.7	192.1	192.1	189.6
80°	177.4	182.3	185.9	184.7	183.5	179.8	178.6	174.9	172.5	168.8	168.8
82.5°	161.5	167.6	170.0	168.8	166.4	162.7	161.5	159.0	156.6	155.4	152.9
85°	148.0	154.1	155.4	152.9	150.5	148.0	146.8	145.6	144.4	141.9	141.9
87.5°	134.6	140.7	140.7	139.5	137.0	135.8	134.6	133.3	132.1	130.9	129.7
90°	123.6	128.4	128.4	127.2	126.0	124.8	123.6	122.3	121.1	119.9	119.9
92.5°	112.5	117.4	117.4	116.2	115.0	113.8	113.8	112.5	111.3	110.1	108.9
95°	102.8	107.7	107.7	107.7	106.4	105.2	105.2	104.0	102.8	102.8	101.5
97.5°	93.0	97.9	97.9	97.9	96.6	95.4	95.4	94.2	94.2	94.2	93.0
100°	84.4	88.1	89.3	89.3	88.1	88.1	88.1	86.9	86.9	86.9	85.6
102.5°	75.8	79.5	82.0	82.0	82.0	80.7	80.7	80.7	80.7	80.7	79.5
105°	68.5	72.2	74.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
107.5°	62.4	66.1	68.5	69.7	71.0	71.0	72.2	72.2	72.2	72.2	72.2
110°	56.3	59.9	63.6	64.8	66.1	67.3	67.3	68.5	67.3	67.3	67.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	50.2	55.0	57.5	59.9	61.2	62.4	63.6	63.6	63.6	63.6	63.6
115°	45.3	50.2	52.6	55.0	57.5	58.7	58.7	59.9	59.9	59.9	58.7
117.5°	40.4	45.3	47.7	50.2	51.4	53.8	55.0	55.0	55.0	55.0	53.8
120°	36.7	40.4	42.8	45.3	47.7	48.9	50.2	50.2	50.2	50.2	50.2
122.5°	31.8	35.5	39.1	41.6	42.8	44.0	45.3	45.3	45.3	45.3	45.3
125°	28.1	31.8	34.3	36.7	37.9	40.4	40.4	40.4	40.4	40.4	40.4
127.5°	24.5	28.1	30.6	33.0	34.3	35.5	36.7	36.7	36.7	36.7	36.7
130°	20.8	24.5	26.9	29.4	30.6	31.8	31.8	33.0	33.0	33.0	33.0
132.5°	18.3	20.8	23.2	25.7	26.9	28.1	28.1	29.4	29.4	29.4	29.4
135°	14.7	18.3	19.6	22.0	23.2	24.5	24.5	25.7	25.7	25.7	25.7
137.5°	12.2	14.7	17.1	19.6	20.8	20.8	22.0	22.0	23.2	23.2	23.2
140°	9.8	11.0	14.7	15.9	17.1	18.3	19.6	19.6	19.6	19.6	19.6
142.5°	7.3	9.8	11.0	13.5	14.7	15.9	17.1	17.1	17.1	17.1	17.1
145°	6.1	7.3	8.6	11.0	12.2	13.5	14.7	14.7	14.7	14.7	14.7
147.5°	4.9	6.1	7.3	8.6	9.8	11.0	12.2	12.2	12.2	12.2	12.2
150°	3.7	4.9	6.1	6.1	7.3	8.6	9.8	11.0	11.0	11.0	11.0
152.5°	3.7	3.7	4.9	4.9	6.1	7.3	8.6	8.6	8.6	8.6	8.6
155°	2.4	3.7	3.7	3.7	4.9	4.9	6.1	7.3	7.3	7.3	7.3
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: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2368.4	2373.2	2370.8	2367.1	2365.9	2372.0	2365.9	2337.8	2348.8	2350.0	2358.6
5°	2364.7	2368.4	2365.9	2363.5	2359.8	2367.1	2359.8	2330.4	2341.4	2342.7	2351.2
7.5°	2389.2	2390.4	2390.4	2384.3	2374.5	2378.1	2368.4	2335.3	2341.4	2341.4	2347.6
10°	2450.3	2452.8	2456.4	2440.5	2428.3	2418.5	2405.1	2364.7	2363.5	2353.7	2353.7
12.5°	2529.8	2523.7	2517.6	2510.3	2500.5	2488.2	2468.7	2421.0	2405.1	2389.2	2373.2
15°	2553.1	2550.6	2549.4	2545.7	2539.6	2535.9	2521.3	2473.6	2450.3	2430.7	2402.6
17.5°	2491.9	2496.8	2512.7	2513.9	2521.3	2535.9	2533.5	2500.5	2479.7	2471.1	2436.9
20°	2381.8	2383.0	2402.6	2411.2	2443.0	2467.4	2485.8	2482.1	2477.2	2487.0	2461.3
22.5°	2249.7	2258.3	2279.1	2292.5	2323.1	2351.2	2380.6	2396.5	2422.2	2462.5	2457.7
25°	2069.9	2080.9	2110.2	2132.3	2175.1	2217.9	2257.0	2285.2	2315.8	2392.8	2418.5
27.5°	1854.6	1871.7	1909.6	1931.6	1991.6	2035.6	2091.9	2146.9	2189.7	2277.8	2330.4
30°	1628.2	1642.9	1683.3	1713.9	1765.3	1825.2	1896.2	1974.4	2045.4	2134.7	2200.8
32.5°	1416.6	1432.5	1465.5	1492.5	1550.0	1600.1	1678.4	1775.0	1841.1	1964.7	2052.7
35°	1231.9	1246.6	1269.8	1293.1	1340.8	1392.1	1459.4	1553.6	1638.0	1766.5	1877.8
37.5°	1102.2	1104.7	1118.1	1131.6	1167.1	1206.2	1258.8	1342.0	1420.3	1558.5	1680.8
40°	1009.2	1009.2	1016.6	1020.3	1036.2	1059.4	1092.4	1157.3	1222.1	1327.3	1476.6
42.5°	951.7	949.3	949.3	950.5	949.3	960.3	979.9	1010.5	1068.0	1154.8	1271.0
45°	908.9	904.0	900.4	891.8	886.9	886.9	888.1	899.1	932.2	988.4	1082.6
47.5°	861.2	860.0	853.9	844.1	835.5	829.4	819.6	816.0	825.7	857.5	921.2
50°	806.2	800.1	793.9	786.6	776.8	770.7	752.3	753.6	745.0	759.7	792.7
52.5°	725.4	720.5	718.1	712.0	708.3	705.9	691.2	676.5	672.8	675.3	687.5
55°	636.1	638.6	628.8	633.7	632.5	621.4	615.3	604.3	600.7	599.4	605.5
57.5°	543.2	545.6	539.5	544.4	544.4	538.3	534.6	534.6	526.0	518.7	527.3
60°	458.7	453.9	457.5	463.6	463.6	460.0	457.5	457.5	451.4	449.0	455.1
62.5°	390.2	385.3	389.0	395.1	396.4	393.9	391.5	391.5	384.1	384.1	389.0
65°	337.6	338.9	337.6	342.5	342.5	343.8	341.3	338.9	330.3	334.0	332.7
67.5°	299.7	298.5	298.5	303.4	302.2	304.6	302.2	298.5	292.4	287.5	286.3
70°	267.9	266.7	266.7	269.1	270.4	270.4	269.1	266.7	258.1	253.2	249.6
72.5°	239.8	238.5	239.8	241.0	242.2	243.4	242.2	239.8	232.4	226.3	220.2
75°	214.1	212.9	216.5	216.5	217.8	217.8	219.0	217.8	211.6	204.3	197.0
77.5°	188.4	189.6	193.3	194.5	197.0	198.2	199.4	199.4	193.3	187.2	177.4
80°	167.6	170.0	172.5	173.7	176.2	179.8	181.1	182.3	177.4	171.3	160.3
82.5°	152.9	154.1	156.6	157.8	161.5	162.7	163.9	166.4	163.9	157.8	145.6
85°	140.7	141.9	144.4	144.4	146.8	149.2	150.5	151.7	150.5	144.4	132.1
87.5°	129.7	130.9	132.1	133.3	134.6	135.8	137.0	138.2	137.0	130.9	119.9
90°	119.9	119.9	121.1	121.1	122.3	123.6	126.0	126.0	124.8	119.9	108.9
92.5°	108.9	110.1	110.1	111.3	112.5	113.8	115.0	115.0	113.8	108.9	99.1
95°	101.5	101.5	102.8	102.8	104.0	104.0	105.2	105.2	104.0	99.1	89.3
97.5°	93.0	93.0	93.0	93.0	94.2	94.2	95.4	95.4	94.2	89.3	80.7
100°	85.6	85.6	85.6	85.6	85.6	86.9	86.9	86.9	85.6	80.7	72.2
102.5°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	77.1	73.4	64.8
105°	75.8	75.8	75.8	74.6	74.6	74.6	73.4	73.4	69.7	66.1	58.7
107.5°	71.0	71.0	71.0	69.7	69.7	68.5	67.3	67.3	63.6	59.9	52.6
110°	67.3	67.3	67.3	66.1	64.8	63.6	62.4	61.2	57.5	52.6	46.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	63.6	63.6	62.4	62.4	61.2	59.9	57.5	56.3	52.6	47.7	41.6
115°	58.7	58.7	58.7	57.5	56.3	55.0	53.8	51.4	47.7	42.8	36.7
117.5°	53.8	53.8	53.8	52.6	51.4	50.2	48.9	46.5	42.8	37.9	33.0
120°	48.9	48.9	48.9	47.7	46.5	45.3	44.0	41.6	37.9	34.3	28.1
122.5°	45.3	45.3	44.0	42.8	41.6	40.4	39.1	36.7	34.3	29.4	24.5
125°	40.4	40.4	39.1	39.1	37.9	36.7	35.5	33.0	29.4	25.7	22.0
127.5°	36.7	35.5	35.5	35.5	34.3	33.0	30.6	29.4	25.7	22.0	18.3
130°	31.8	31.8	31.8	30.6	30.6	29.4	26.9	24.5	22.0	19.6	15.9
132.5°	28.1	28.1	28.1	28.1	26.9	25.7	23.2	22.0	19.6	15.9	13.5
135°	25.7	25.7	24.5	24.5	23.2	22.0	20.8	18.3	15.9	13.5	11.0
137.5°	22.0	22.0	22.0	20.8	20.8	19.6	17.1	15.9	14.7	12.2	9.8
140°	19.6	19.6	18.3	18.3	17.1	17.1	15.9	13.5	12.2	9.8	8.6
142.5°	17.1	17.1	15.9	15.9	14.7	14.7	13.5	12.2	9.8	8.6	6.1
145°	14.7	14.7	13.5	13.5	13.5	12.2	11.0	9.8	8.6	7.3	6.1
147.5°	12.2	12.2	12.2	11.0	11.0	9.8	9.8	8.6	7.3	6.1	4.9
150°	11.0	11.0	9.8	9.8	9.8	8.6	7.3	7.3	6.1	4.9	3.7
152.5°	8.6	8.6	8.6	8.6	7.3	7.3	6.1	6.1	4.9	3.7	3.7
155°	7.3	7.3	7.3	6.1	6.1	6.1	4.9	4.9	3.7	3.7	2.4
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-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2354.9	2353.7	2364.7	2363.5	2348.8	2370.8	2385.5
5°	2348.8	2347.6	2357.3	2359.8	2343.9	2367.1	2383.0
7.5°	2343.9	2342.7	2353.7	2357.3	2341.4	2362.2	2379.4
10°	2345.1	2339.0	2348.8	2351.2	2336.5	2358.6	2373.2
12.5°	2353.7	2339.0	2342.7	2342.7	2329.2	2348.8	2364.7
15°	2374.5	2343.9	2339.0	2335.3	2318.2	2336.5	2352.5
17.5°	2397.7	2356.1	2339.0	2326.8	2306.0	2321.9	2339.0
20°	2421.0	2369.6	2341.4	2321.9	2293.7	2308.4	2320.6
22.5°	2432.0	2381.8	2343.9	2314.5	2279.1	2286.4	2299.8
25°	2417.3	2376.9	2339.0	2303.5	2260.7	2261.9	2272.9
27.5°	2363.5	2352.5	2328.0	2292.5	2246.0	2239.9	2248.5
30°	2271.7	2302.3	2303.5	2277.8	2228.9	2216.7	2220.3
32.5°	2143.3	2211.8	2252.1	2247.2	2204.4	2187.3	2189.7
35°	1995.2	2080.9	2169.0	2198.3	2167.7	2154.3	2149.4
37.5°	1817.9	1932.9	2050.3	2122.5	2117.6	2109.0	2104.1
40°	1622.1	1760.4	1899.8	2014.8	2050.3	2050.3	2052.7
42.5°	1412.9	1574.4	1727.3	1872.9	1956.1	1974.4	1981.8
45°	1211.1	1373.8	1540.2	1707.8	1819.1	1876.6	1897.4
47.5°	1027.6	1191.5	1349.3	1532.8	1680.8	1755.5	1788.5
50°	871.0	993.3	1159.7	1342.0	1503.5	1595.2	1660.0
52.5°	741.3	836.8	982.3	1152.4	1315.1	1441.1	1501.0
55°	632.5	697.3	820.8	967.6	1123.0	1253.9	1323.6
57.5°	540.7	592.1	676.5	798.8	929.7	1059.4	1134.0
60°	460.0	495.4	552.9	649.6	760.9	872.2	944.4
62.5°	390.2	413.5	451.4	522.4	609.2	696.1	763.4
65°	336.4	346.2	367.0	411.0	477.1	543.2	600.7
67.5°	283.8	289.9	305.8	332.7	365.8	413.5	451.4
70°	244.7	244.7	245.9	261.8	278.9	309.5	336.4
72.5°	212.9	209.2	201.8	205.5	209.2	226.3	243.4
75°	187.2	178.6	166.4	161.5	159.0	161.5	171.3
77.5°	165.1	152.9	138.2	126.0	116.2	112.5	121.1
80°	146.8	132.1	115.0	99.1	83.2	74.6	78.3
82.5°	132.1	113.8	95.4	77.1	58.7	46.5	46.5
85°	116.2	99.1	79.5	59.9	41.6	25.7	23.2
87.5°	105.2	86.9	66.1	47.7	29.4	13.5	7.3
90°	94.2	75.8	56.3	37.9	20.8	6.1	0.0
92.5°	84.4	67.3	48.9	30.6	14.7	3.7	0.0
95°	75.8	59.9	41.6	25.7	12.2	2.4	1.2
97.5°	67.3	52.6	36.7	20.8	8.6	2.4	1.2
100°	61.2	46.5	31.8	17.1	7.3	1.2	1.2
102.5°	53.8	41.6	26.9	14.7	6.1	1.2	1.2
105°	47.7	36.7	23.2	12.2	4.9	1.2	1.2
107.5°	42.8	31.8	20.8	11.0	4.9	1.2	1.2
110°	37.9	28.1	18.3	9.8	3.7	1.2	1.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	34.3	24.5	15.9	8.6	2.4	1.2	1.2
115°	29.4	22.0	13.5	7.3	2.4	1.2	1.2
117.5°	25.7	18.3	12.2	6.1	2.4	1.2	1.2
120°	22.0	15.9	9.8	4.9	1.2	1.2	1.2
122.5°	19.6	13.5	8.6	4.9	1.2	1.2	1.2
125°	17.1	12.2	7.3	3.7	1.2	1.2	1.2
127.5°	14.7	9.8	6.1	2.4	1.2	1.2	1.2
130°	12.2	8.6	4.9	2.4	1.2	1.2	1.2
132.5°	9.8	7.3	4.9	2.4	1.2	1.2	1.2
135°	8.6	6.1	3.7	2.4	1.2	1.2	1.2
137.5°	7.3	4.9	2.4	2.4	2.4	1.2	1.2
140°	6.1	3.7	2.4	2.4	2.4	2.4	1.2
142.5°	4.9	3.7	2.4	2.4	2.4	2.4	1.2
145°	3.7	2.4	2.4	2.4	2.4	2.4	1.2
147.5°	3.7	2.4	2.4	2.4	2.4	2.4	1.2
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)