

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-LD5-56SL-LC-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

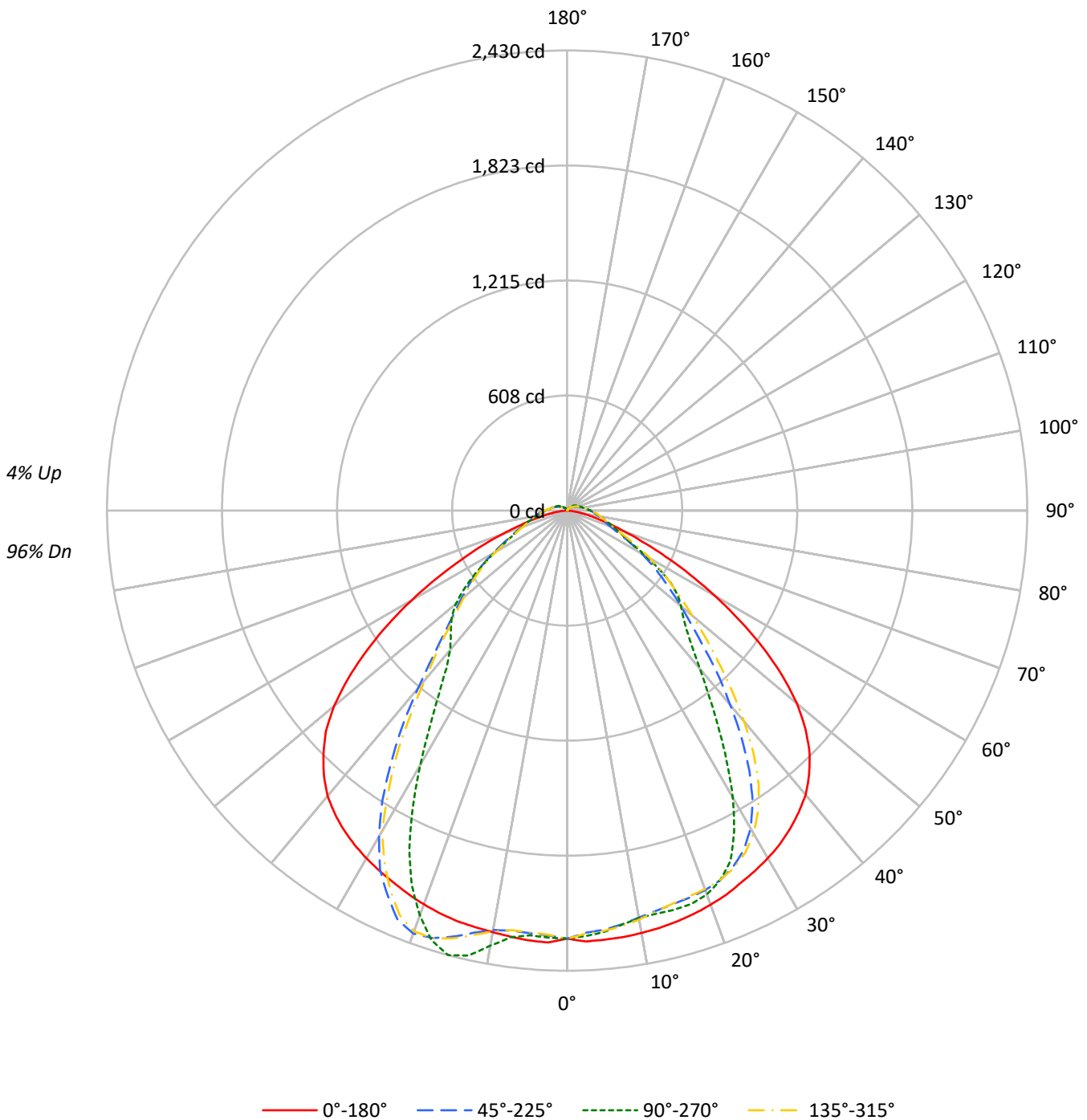
Lumens per Lamp: N/A
Luminaire Lumens: 5389.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
Input Voltage (V): NR
Input Current (A_{in}): 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#
CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-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°	18267	18267	18267	18267
5°	18401	17543	18438	17681
10°	18486	16814	18447	17955
15°	18629	16589	18619	18471
20°	18834	16326	18814	17209
25°	19066	15487	19056	14965
30°	19425	13423	19435	11892
35°	19805	10855	19862	9185
40°	20141	8739	20225	7700
45°	20069	7403	20173	7209
50°	19205	6816	19474	6663
55°	17039	6126	17464	5569
60°	13820	4688	14555	4300
65°	10274	3587	11069	3402
70°	6987	3096	7877	2960
75°	4572	2793	5321	2643
80°	2953	2604	3463	2396
85°	1517	2599	1995	2373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	4.0
10°-20°	638.9	11.9
20°-30°	971.3	18.0
30°-40°	1042.0	19.3
40°-50°	904.3	16.8
50°-60°	670.2	12.4
60°-70°	384.0	7.1
70°-80°	212.6	3.9
80°-90°	129.5	2.4
90°-100°	84.2	1.6
100°-110°	56.4	1.0
110°-120°	38.1	0.7
120°-130°	23.4	0.4
130°-140°	12.3	0.2
140°-150°	5.6	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1824.9	33.9
0°-40°	2866.8	53.2
0°-60°	4441.3	82.4
0°-90°	5167.4	95.9
90°-120°	178.7	3.3
90°-150°	219.9	4.1
90°-180°	222.0	4.1
0°-180°	5389.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2260	2260	2260	2260	2260	
5°	2275	2234	2279	2251	2275	217
15°	2245	2182	2244	2430	2245	635
25°	2170	2041	2168	1972	2170	1003
35°	2052	1390	2057	1176	2052	1284
45°	1811	891	1820	868	1811	1387
55°	1263	668	1295	607	1263	1120
65°	573	339	618	321	573	578
75°	164	215	190	203	164	187
85°	22	148	29	135	22	29
90°	0	124	2	114	0	1
95°	1	102	0	97	1	1
105°	1	76	1	72	1	1
115°	1	62	1	56	1	1
125°	1	47	1	38	1	1
135°	1	29	1	24	1	1
145°	1	18	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	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2276.9	2271.1	2268.7	2264.1	2267.6	2281.6	2272.2	2257.0	2258.2	2231.4	2245.4
5°	2274.6	2267.6	2264.1	2259.4	2261.7	2274.6	2265.2	2250.0	2248.9	2222.0	2234.9
7.5°	2271.1	2264.1	2258.2	2254.7	2255.9	2266.4	2254.7	2237.2	2233.7	2204.5	2216.2
10°	2265.2	2260.5	2252.4	2246.5	2245.4	2257.0	2238.4	2220.8	2212.7	2182.3	2194.0
12.5°	2257.0	2250.0	2241.9	2231.4	2230.2	2237.2	2222.0	2197.5	2189.3	2164.8	2177.6
15°	2245.4	2237.2	2227.9	2216.2	2210.3	2215.0	2196.3	2174.1	2173.0	2152.0	2169.5
17.5°	2232.5	2220.8	2210.3	2194.0	2185.8	2189.3	2174.1	2154.3	2156.6	2143.8	2163.6
20°	2215.0	2202.2	2185.8	2169.5	2157.8	2163.6	2153.1	2137.9	2141.4	2132.1	2149.6
22.5°	2195.2	2177.6	2157.8	2139.1	2129.8	2137.9	2129.8	2116.9	2118.1	2112.3	2122.8
25°	2169.5	2149.6	2126.3	2102.9	2098.2	2104.1	2099.4	2088.9	2084.2	2074.9	2079.6
27.5°	2146.1	2123.9	2094.7	2070.2	2062.1	2073.7	2063.2	2045.7	2032.9	2020.0	2010.7
30°	2119.3	2092.4	2059.7	2031.7	2024.7	2029.4	2014.2	1987.3	1953.5	1937.1	1911.4
32.5°	2090.1	2055.0	2014.2	1982.7	1978.0	1974.5	1946.5	1907.9	1855.4	1822.7	1783.0
35°	2051.5	2013.0	1964.0	1925.4	1918.4	1898.6	1853.0	1801.7	1733.9	1677.9	1610.2
37.5°	2008.3	1962.8	1911.4	1860.0	1840.2	1800.5	1736.3	1682.6	1579.8	1512.1	1430.4
40°	1959.3	1904.4	1841.4	1779.5	1746.8	1682.6	1609.0	1529.6	1430.4	1339.3	1270.4
42.5°	1891.6	1833.2	1758.5	1689.6	1633.5	1548.3	1461.9	1349.8	1258.7	1181.7	1111.6
45°	1811.0	1740.9	1654.5	1571.6	1500.4	1398.8	1297.2	1185.2	1109.3	1019.3	971.5
47.5°	1707.1	1631.2	1538.9	1446.7	1353.3	1241.2	1134.9	1027.5	951.6	887.4	852.4
50°	1584.5	1514.4	1412.8	1303.1	1200.3	1083.6	977.3	896.7	823.2	783.5	756.6
52.5°	1432.7	1367.3	1263.4	1144.3	1045.0	930.6	833.7	768.3	715.8	686.6	677.2
55°	1263.4	1206.2	1103.4	992.5	890.9	785.8	712.3	655.0	621.2	603.7	604.8
57.5°	1082.4	1038.0	941.1	841.9	746.1	666.7	600.2	554.6	528.9	527.8	531.3
60°	901.4	868.7	784.7	699.4	615.3	551.1	502.1	470.6	454.2	455.4	454.2
62.5°	728.6	698.2	637.5	567.5	500.9	457.7	413.3	400.5	386.5	385.3	385.3
65°	573.3	550.0	500.9	450.7	400.5	372.5	350.3	335.1	324.6	322.3	323.4
67.5°	430.9	421.5	387.7	353.8	322.3	304.8	286.1	282.6	274.4	274.4	276.7
70°	321.1	314.1	295.4	275.6	262.7	251.0	241.7	241.7	240.5	239.4	245.2
72.5°	232.4	233.5	227.7	212.5	211.3	209.0	206.7	210.2	211.3	214.8	221.9
75°	163.5	167.0	167.0	164.6	169.3	175.1	178.6	184.5	191.5	196.2	204.3
77.5°	115.6	115.6	121.4	128.4	137.8	148.3	157.6	165.8	175.1	181.0	188.0
80°	74.7	78.2	87.6	100.4	113.3	127.3	140.1	150.6	160.0	169.3	174.0
82.5°	44.4	50.2	61.9	78.2	94.6	112.1	124.9	137.8	148.3	157.6	161.1
85°	22.2	30.4	44.4	61.9	79.4	98.1	114.4	126.1	137.8	146.0	150.6
87.5°	7.0	16.3	31.5	47.9	66.6	85.2	102.8	115.6	126.1	133.1	137.8
90°	0.0	8.2	22.2	39.7	57.2	75.9	92.2	106.3	116.8	122.6	126.1
92.5°	0.0	4.7	17.5	32.7	49.0	67.7	84.1	96.9	106.3	112.1	114.4
95°	1.2	3.5	12.8	26.9	43.2	60.7	75.9	87.6	96.9	102.8	103.9
97.5°	1.2	2.3	10.5	22.2	37.4	53.7	68.9	80.6	87.6	93.4	94.6
100°	1.2	2.3	8.2	19.8	32.7	47.9	61.9	72.4	80.6	85.2	86.4
102.5°	1.2	1.2	7.0	16.3	29.2	42.0	54.9	65.4	72.4	77.1	79.4
105°	1.2	1.2	5.8	14.0	25.7	37.4	49.0	59.5	65.4	70.1	72.4
107.5°	1.2	1.2	4.7	11.7	22.2	32.7	44.4	52.5	59.5	64.2	66.6
110°	1.2	1.2	3.5	10.5	18.7	29.2	38.5	46.7	53.7	58.4	60.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	1.2	3.5	9.3	16.3	25.7	33.9	42.0	47.9	52.5	56.0
115°	1.2	1.2	3.5	8.2	15.2	22.2	30.4	37.4	43.2	47.9	51.4
117.5°	1.2	1.2	3.5	7.0	12.8	19.8	26.9	33.9	38.5	43.2	46.7
120°	1.2	1.2	2.3	5.8	11.7	17.5	23.4	29.2	35.0	39.7	43.2
122.5°	1.2	1.2	2.3	5.8	9.3	15.2	21.0	25.7	31.5	35.0	38.5
125°	1.2	1.2	2.3	4.7	8.2	14.0	18.7	23.4	26.9	31.5	35.0
127.5°	1.2	1.2	2.3	4.7	7.0	11.7	16.3	21.0	24.5	28.0	30.4
130°	1.2	1.2	2.3	3.5	5.8	9.3	14.0	17.5	22.2	24.5	26.9
132.5°	1.2	1.2	1.2	3.5	4.7	7.0	10.5	15.2	18.7	22.2	23.4
135°	1.2	1.2	1.2	2.3	4.7	5.8	8.2	11.7	15.2	18.7	21.0
137.5°	1.2	1.2	1.2	2.3	3.5	5.8	7.0	9.3	12.8	15.2	18.7
140°	1.2	1.2	1.2	2.3	3.5	4.7	5.8	8.2	10.5	12.8	15.2
142.5°	1.2	1.2	1.2	2.3	2.3	3.5	4.7	7.0	8.2	10.5	12.8
145°	1.2	1.2	1.2	2.3	2.3	3.5	4.7	5.8	7.0	8.2	10.5
147.5°	1.2	1.2	1.2	2.3	2.3	2.3	3.5	4.7	5.8	7.0	8.2
150°	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.7	5.8	7.0
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	4.7	5.8
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.7	4.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2240.7	2243.0	2257.0	2255.9	2253.5	2251.2	2251.2	2248.9	2251.2	2257.0	2254.7
5°	2229.0	2232.5	2243.0	2241.9	2239.5	2238.4	2237.2	2233.7	2236.0	2244.2	2241.9
7.5°	2208.0	2211.5	2220.8	2216.2	2212.7	2215.0	2209.2	2205.7	2210.3	2218.5	2217.3
10°	2185.8	2188.2	2199.8	2197.5	2191.7	2192.8	2187.0	2184.7	2190.5	2195.2	2196.3
12.5°	2170.6	2178.8	2189.3	2188.2	2187.0	2188.2	2182.3	2180.0	2183.5	2188.2	2187.0
15°	2167.1	2177.6	2189.3	2189.3	2190.5	2191.7	2185.8	2182.3	2185.8	2189.3	2188.2
17.5°	2163.6	2176.5	2187.0	2185.8	2187.0	2189.3	2180.0	2177.6	2182.3	2187.0	2184.7
20°	2152.0	2163.6	2170.6	2168.3	2168.3	2169.5	2157.8	2157.8	2164.8	2168.3	2169.5
22.5°	2119.3	2133.3	2133.3	2127.4	2127.4	2122.8	2119.3	2112.3	2120.4	2126.3	2130.9
25°	2070.2	2076.1	2069.1	2056.2	2049.2	2043.4	2027.0	2041.0	2041.0	2058.5	2064.4
27.5°	2001.3	1988.5	1968.6	1941.8	1935.9	1917.3	1906.8	1910.3	1916.1	1940.6	1959.3
30°	1888.1	1849.5	1815.7	1804.0	1778.3	1759.6	1740.9	1750.3	1760.8	1774.8	1813.3
32.5°	1738.6	1701.2	1646.4	1626.5	1599.7	1576.3	1554.1	1568.1	1586.8	1596.2	1638.2
35°	1567.0	1522.6	1472.4	1438.5	1410.5	1397.7	1369.6	1389.5	1409.3	1416.3	1452.5
37.5°	1384.8	1339.3	1294.9	1265.7	1238.9	1230.7	1212.0	1226.0	1241.2	1251.7	1282.1
40°	1212.0	1170.0	1136.1	1116.3	1097.6	1090.6	1083.6	1089.4	1101.1	1109.3	1132.6
42.5°	1063.7	1029.9	1006.5	994.8	982.0	972.6	973.8	976.1	982.0	999.5	1010.0
45°	934.1	914.3	899.1	896.7	888.6	887.4	886.2	890.9	894.4	904.9	913.1
47.5°	830.2	822.0	818.5	823.2	826.7	822.0	824.4	830.2	837.2	837.2	836.0
50°	748.5	750.8	755.5	766.0	773.0	775.3	777.6	784.7	785.8	788.2	784.7
52.5°	681.9	684.2	697.1	713.4	721.6	725.1	729.8	736.8	736.8	739.1	734.4
55°	614.2	617.7	630.5	646.9	653.9	658.5	663.2	667.9	671.4	676.1	672.6
57.5°	539.4	550.0	558.1	562.8	567.5	571.0	574.5	575.6	582.7	583.8	589.7
60°	460.0	462.4	470.6	469.4	465.9	475.2	470.6	478.7	486.9	497.4	498.6
62.5°	384.2	385.3	391.2	388.8	393.5	392.3	395.8	395.8	401.7	406.3	412.2
65°	324.6	325.8	330.4	330.4	329.3	332.8	336.3	338.6	338.6	342.1	346.8
67.5°	280.2	283.7	288.4	290.7	293.1	293.1	296.6	297.7	300.1	301.3	303.6
70°	249.9	254.5	259.2	261.6	262.7	265.1	266.2	266.2	268.6	269.7	272.1
72.5°	227.7	232.4	235.9	235.9	238.2	239.4	239.4	240.5	241.7	244.0	246.4
75°	209.0	212.5	214.8	213.7	213.7	213.7	214.8	214.8	217.2	219.5	221.9
77.5°	191.5	195.0	195.0	192.7	192.7	192.7	192.7	193.8	195.0	197.3	199.7
80°	178.6	178.6	177.5	177.5	175.1	174.0	174.0	175.1	175.1	177.5	181.0
82.5°	164.6	164.6	163.5	162.3	161.1	160.0	160.0	161.1	162.3	163.5	165.8
85°	151.8	151.8	149.5	149.5	148.3	148.3	148.3	148.3	149.5	150.6	153.0
87.5°	138.9	137.8	136.6	135.4	135.4	135.4	135.4	135.4	136.6	138.9	140.1
90°	126.1	124.9	123.8	123.8	122.6	122.6	123.8	123.8	124.9	126.1	127.3
92.5°	114.4	113.3	112.1	112.1	110.9	110.9	112.1	110.9	113.3	113.3	114.4
95°	103.9	102.8	101.6	101.6	101.6	101.6	101.6	101.6	102.8	102.8	103.9
97.5°	94.6	93.4	92.2	92.2	93.4	92.2	93.4	93.4	93.4	94.6	95.7
100°	86.4	85.2	85.2	86.4	85.2	85.2	86.4	86.4	86.4	86.4	87.6
102.5°	79.4	79.4	79.4	79.4	79.4	79.4	80.6	80.6	80.6	80.6	81.7
105°	72.4	73.6	73.6	73.6	74.7	74.7	74.7	75.9	75.9	75.9	75.9
107.5°	67.7	68.9	68.9	70.1	70.1	71.2	71.2	71.2	71.2	72.4	72.4
110°	63.1	64.2	65.4	66.6	66.6	67.7	67.7	67.7	67.7	67.7	67.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	58.4	59.5	60.7	63.1	64.2	64.2	64.2	64.2	65.4	65.4	64.2
115°	53.7	56.0	57.2	59.5	60.7	60.7	61.9	61.9	61.9	61.9	60.7
117.5°	49.0	52.5	53.7	56.0	57.2	57.2	58.4	58.4	58.4	58.4	57.2
120°	45.5	47.9	50.2	51.4	52.5	53.7	53.7	54.9	54.9	54.9	53.7
122.5°	42.0	44.4	46.7	47.9	49.0	50.2	50.2	50.2	50.2	50.2	50.2
125°	37.4	39.7	42.0	43.2	44.4	45.5	45.5	46.7	46.7	46.7	45.5
127.5°	33.9	36.2	37.4	39.7	40.9	40.9	42.0	42.0	42.0	42.0	40.9
130°	29.2	31.5	33.9	35.0	36.2	36.2	37.4	37.4	37.4	37.4	37.4
132.5°	25.7	28.0	29.2	31.5	31.5	32.7	32.7	33.9	33.9	33.9	32.7
135°	23.4	24.5	25.7	28.0	28.0	29.2	29.2	29.2	29.2	29.2	29.2
137.5°	21.0	22.2	23.4	24.5	24.5	25.7	25.7	25.7	25.7	26.9	25.7
140°	17.5	19.8	21.0	21.0	22.2	22.2	22.2	23.4	23.4	23.4	22.2
142.5°	15.2	16.3	17.5	18.7	19.8	19.8	19.8	19.8	21.0	19.8	19.8
145°	11.7	14.0	15.2	16.3	17.5	17.5	17.5	17.5	17.5	17.5	17.5
147.5°	9.3	10.5	12.8	14.0	14.0	15.2	15.2	15.2	15.2	15.2	15.2
150°	8.2	8.2	10.5	11.7	12.8	12.8	12.8	12.8	12.8	12.8	12.8
152.5°	5.8	7.0	8.2	9.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
155°	5.8	5.8	7.0	7.0	8.2	8.2	8.2	8.2	9.3	8.2	8.2
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-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2251.2	2250.0	2254.7	2250.0	2226.7	2236.0	2232.5	2245.4	2246.5	2250.0	2261.7
5°	2239.5	2239.5	2245.4	2240.7	2218.5	2227.9	2226.7	2239.5	2241.9	2244.2	2257.0
7.5°	2216.2	2217.3	2225.5	2222.0	2198.7	2212.7	2211.5	2226.7	2231.4	2236.0	2247.7
10°	2194.0	2192.8	2202.2	2198.7	2176.5	2192.8	2191.7	2206.8	2213.8	2222.0	2236.0
12.5°	2182.3	2178.8	2182.3	2178.8	2154.3	2167.1	2168.3	2185.8	2194.0	2204.5	2220.8
15°	2182.3	2176.5	2176.5	2169.5	2141.4	2149.6	2150.8	2162.5	2173.0	2183.5	2203.3
17.5°	2180.0	2174.1	2173.0	2167.1	2136.8	2136.8	2135.6	2143.8	2149.6	2160.1	2181.1
20°	2167.1	2164.8	2163.6	2160.1	2132.1	2127.4	2125.1	2125.1	2128.6	2132.1	2153.1
22.5°	2133.3	2135.6	2137.9	2140.3	2118.1	2109.9	2111.1	2108.8	2105.3	2105.3	2122.8
25°	2070.2	2081.9	2091.2	2101.7	2088.9	2083.1	2090.1	2086.6	2080.7	2076.1	2091.2
27.5°	1969.8	1994.3	2014.2	2039.9	2041.0	2036.4	2055.0	2052.7	2051.5	2044.5	2056.2
30°	1830.9	1869.4	1896.2	1933.6	1965.1	1969.8	2001.3	2006.0	2010.7	2007.2	2018.8
32.5°	1662.7	1715.3	1760.8	1819.2	1849.5	1876.4	1920.8	1939.4	1958.1	1964.0	1976.8
35°	1479.4	1538.9	1592.7	1656.9	1704.8	1763.1	1816.8	1844.9	1886.9	1903.3	1921.9
37.5°	1305.4	1361.5	1414.0	1478.2	1555.3	1616.0	1682.6	1745.6	1802.8	1826.2	1854.2
40°	1151.3	1196.8	1247.0	1303.1	1373.1	1452.5	1524.9	1612.5	1680.2	1726.9	1767.8
42.5°	1034.5	1056.7	1099.9	1150.1	1206.2	1286.7	1360.3	1458.4	1540.1	1606.7	1674.4
45°	930.6	941.1	972.6	999.5	1056.7	1127.9	1206.2	1301.9	1387.2	1472.4	1554.1
47.5°	841.9	854.7	869.9	886.2	927.1	986.7	1054.4	1140.8	1226.0	1325.3	1418.7
50°	782.3	785.8	788.2	795.2	819.7	860.5	915.4	989.0	1070.7	1177.0	1276.2
52.5°	729.8	729.8	722.8	719.3	728.6	754.3	785.8	838.4	922.4	1020.5	1125.6
55°	673.7	663.2	660.9	649.2	651.5	663.2	678.4	719.3	788.2	872.2	973.8
57.5°	595.5	590.8	590.8	586.2	576.8	582.7	586.2	615.3	664.4	736.8	825.5
60°	505.6	503.3	509.1	510.3	502.1	505.6	504.4	521.9	557.0	615.3	688.9
62.5°	415.7	426.2	427.4	432.0	427.4	426.2	432.0	447.2	464.7	509.1	566.3
65°	349.1	355.0	356.1	362.0	359.6	359.6	364.3	376.0	386.5	416.8	461.2
67.5°	305.9	303.6	304.8	308.3	304.8	303.6	307.1	314.1	322.3	341.0	372.5
70°	272.1	269.7	269.7	269.7	265.1	261.6	262.7	265.1	268.6	279.1	298.9
72.5°	246.4	246.4	242.9	239.4	235.9	233.5	231.2	228.9	227.7	231.2	241.7
75°	223.0	224.2	223.0	219.5	214.8	210.2	205.5	200.8	195.0	192.7	193.8
77.5°	202.0	203.2	204.3	203.2	198.5	192.7	185.7	178.6	170.5	162.3	157.6
80°	183.3	185.7	186.8	185.7	182.2	177.5	169.3	161.1	149.5	138.9	127.3
82.5°	167.0	170.5	171.6	171.6	169.3	164.6	155.3	146.0	133.1	119.1	103.9
85°	154.1	156.5	158.8	158.8	157.6	153.0	143.6	133.1	120.3	103.9	87.6
87.5°	141.3	142.5	144.8	147.1	144.8	140.1	131.9	120.3	107.4	91.1	72.4
90°	128.4	129.6	131.9	134.3	133.1	128.4	121.4	110.9	96.9	79.4	60.7
92.5°	115.6	117.9	119.1	120.3	121.4	117.9	112.1	101.6	87.6	70.1	52.5
95°	106.3	106.3	108.6	109.8	110.9	107.4	102.8	92.2	79.4	63.1	45.5
97.5°	96.9	96.9	99.2	99.2	100.4	98.1	93.4	84.1	71.2	56.0	38.5
100°	87.6	88.7	89.9	91.1	91.1	89.9	85.2	75.9	64.2	50.2	33.9
102.5°	81.7	81.7	82.9	82.9	84.1	81.7	77.1	68.9	57.2	44.4	29.2
105°	75.9	75.9	77.1	77.1	75.9	73.6	68.9	61.9	51.4	38.5	25.7
107.5°	71.2	71.2	71.2	71.2	70.1	67.7	63.1	54.9	45.5	35.0	23.4
110°	67.7	66.6	66.6	65.4	64.2	60.7	56.0	49.0	40.9	30.4	19.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	64.2	63.1	61.9	60.7	58.4	54.9	50.2	44.4	36.2	26.9	17.5
115°	60.7	59.5	58.4	56.0	53.7	50.2	45.5	39.7	31.5	23.4	15.2
117.5°	57.2	56.0	53.7	51.4	49.0	45.5	40.9	35.0	28.0	21.0	14.0
120°	52.5	51.4	50.2	47.9	45.5	40.9	36.2	31.5	24.5	18.7	11.7
122.5°	49.0	47.9	45.5	44.4	40.9	37.4	32.7	28.0	22.2	16.3	10.5
125°	44.4	43.2	42.0	39.7	37.4	32.7	29.2	24.5	19.8	14.0	8.2
127.5°	40.9	39.7	37.4	35.0	32.7	29.2	25.7	22.2	17.5	11.7	8.2
130°	36.2	35.0	33.9	31.5	29.2	25.7	23.4	18.7	15.2	10.5	7.0
132.5°	31.5	31.5	30.4	28.0	25.7	23.4	19.8	16.3	12.8	9.3	5.8
135°	29.2	28.0	26.9	24.5	23.4	19.8	17.5	14.0	10.5	8.2	4.7
137.5°	25.7	24.5	23.4	22.2	19.8	17.5	15.2	11.7	9.3	7.0	4.7
140°	22.2	21.0	21.0	18.7	17.5	15.2	12.8	10.5	8.2	5.8	3.5
142.5°	19.8	18.7	17.5	16.3	15.2	12.8	10.5	8.2	7.0	4.7	3.5
145°	17.5	16.3	15.2	14.0	12.8	10.5	9.3	7.0	5.8	4.7	3.5
147.5°	14.0	14.0	12.8	11.7	10.5	9.3	8.2	7.0	4.7	3.5	2.3
150°	11.7	11.7	10.5	9.3	9.3	8.2	7.0	5.8	4.7	3.5	2.3
152.5°	10.5	9.3	9.3	8.2	8.2	7.0	5.8	4.7	3.5	3.5	2.3
155°	8.2	8.2	8.2	7.0	7.0	5.8	4.7	4.7	3.5	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-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2264.1	2250.0	2261.7	2282.7	2280.4	2278.1	2275.7	2280.4	2295.6	2287.4	2274.6
5°	2260.5	2246.5	2259.4	2279.2	2278.1	2274.6	2272.2	2276.9	2292.1	2283.9	2269.9
7.5°	2253.5	2240.7	2250.0	2269.9	2269.9	2267.6	2265.2	2269.9	2283.9	2276.9	2262.9
10°	2241.9	2232.5	2241.9	2260.5	2261.7	2257.0	2254.7	2260.5	2274.6	2271.1	2259.4
12.5°	2232.5	2223.2	2233.7	2252.4	2253.5	2248.9	2245.4	2252.4	2271.1	2273.4	2269.9
15°	2219.7	2211.5	2224.4	2244.2	2244.2	2240.7	2240.7	2250.0	2275.7	2286.2	2292.1
17.5°	2201.0	2195.2	2210.3	2230.2	2231.4	2229.0	2230.2	2248.9	2282.7	2308.4	2324.8
20°	2177.6	2175.3	2191.7	2212.7	2216.2	2217.3	2223.2	2251.2	2297.9	2332.9	2349.3
22.5°	2149.6	2150.8	2169.5	2191.7	2196.3	2199.8	2211.5	2251.2	2309.6	2347.0	2354.0
25°	2118.1	2121.6	2141.4	2168.3	2174.1	2181.1	2201.0	2252.4	2313.1	2337.6	2325.9
27.5°	2084.2	2091.2	2116.9	2145.0	2152.0	2163.6	2189.3	2245.4	2296.7	2297.9	2254.7
30°	2049.2	2057.4	2087.7	2120.4	2132.1	2143.8	2175.3	2229.0	2257.0	2219.7	2143.8
32.5°	2009.5	2021.2	2051.5	2091.2	2105.3	2120.4	2152.0	2197.5	2187.0	2106.4	1997.8
35°	1959.3	1975.6	2010.7	2057.4	2070.2	2090.1	2112.3	2122.8	2076.1	1961.6	1839.0
37.5°	1897.4	1921.9	1962.8	2016.5	2030.5	2043.4	2049.2	2020.0	1926.6	1802.8	1675.6
40°	1826.2	1863.6	1907.9	1967.5	1981.5	1981.5	1960.5	1898.6	1780.6	1618.3	1477.1
42.5°	1739.8	1785.3	1841.4	1900.9	1914.9	1898.6	1848.4	1739.8	1605.5	1424.5	1275.1
45°	1634.7	1695.4	1758.5	1820.3	1827.4	1791.2	1701.2	1563.5	1397.7	1229.5	1087.1
47.5°	1509.8	1589.2	1658.0	1728.1	1718.8	1658.0	1537.8	1381.3	1206.2	1047.4	932.9
50°	1369.6	1463.1	1540.1	1606.7	1586.8	1502.8	1361.5	1198.0	1024.0	888.6	794.0
52.5°	1220.2	1327.6	1404.7	1458.4	1431.5	1331.1	1175.8	1019.3	876.9	753.1	690.1
55°	1064.9	1173.5	1252.9	1294.9	1259.9	1151.3	998.3	855.9	721.6	641.0	603.7
57.5°	914.3	1015.8	1090.6	1124.4	1080.1	971.5	830.2	709.9	613.0	545.3	526.6
60°	769.5	852.4	923.6	949.3	901.4	801.0	679.6	583.8	512.6	465.9	456.5
62.5°	635.2	702.9	759.0	778.8	732.1	653.9	548.8	477.6	427.4	404.0	392.3
65°	524.3	564.0	621.2	617.7	589.7	517.3	440.2	390.0	357.3	342.1	335.1
67.5°	412.2	448.4	484.6	489.2	454.2	404.0	353.8	317.6	300.1	291.9	288.4
70°	318.8	345.6	367.8	362.0	343.3	311.8	280.2	260.4	253.4	249.9	249.9
72.5°	247.5	261.6	272.1	265.1	253.4	237.0	221.9	213.7	214.8	217.2	219.5
75°	191.5	195.0	197.3	190.3	188.0	177.5	176.3	177.5	184.5	191.5	195.0
77.5°	147.1	142.5	138.9	131.9	133.1	131.9	137.8	147.1	157.6	168.1	177.5
80°	113.3	102.8	94.6	87.6	91.1	96.9	108.6	122.6	136.6	148.3	160.0
82.5°	87.6	72.4	60.7	53.7	60.7	70.1	85.2	102.8	119.1	131.9	144.8
85°	67.7	50.2	36.2	29.2	36.2	50.2	66.6	86.4	103.9	117.9	130.8
87.5°	52.5	36.2	19.8	11.7	19.8	35.0	53.7	72.4	89.9	106.3	119.1
90°	42.0	24.5	9.3	2.3	10.5	24.5	42.0	60.7	78.2	95.7	108.6
92.5°	33.9	17.5	4.7	0.0	5.8	18.7	35.0	52.5	70.1	86.4	99.2
95°	28.0	14.0	3.5	0.0	4.7	14.0	28.0	45.5	61.9	78.2	88.7
97.5°	23.4	10.5	2.3	0.0	2.3	11.7	23.4	38.5	54.9	70.1	80.6
100°	19.8	9.3	2.3	0.0	2.3	9.3	19.8	33.9	47.9	61.9	72.4
102.5°	16.3	7.0	1.2	1.2	1.2	7.0	17.5	29.2	42.0	54.9	65.4
105°	15.2	5.8	1.2	1.2	1.2	5.8	15.2	25.7	37.4	49.0	58.4
107.5°	12.8	4.7	1.2	1.2	1.2	4.7	12.8	22.2	33.9	44.4	52.5
110°	10.5	4.7	1.2	1.2	1.2	4.7	10.5	19.8	29.2	38.5	46.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.3	3.5	1.2	1.2	1.2	3.5	9.3	17.5	25.7	35.0	42.0
115°	8.2	3.5	1.2	1.2	1.2	3.5	8.2	15.2	22.2	30.4	37.4
117.5°	7.0	3.5	1.2	1.2	1.2	2.3	7.0	12.8	19.8	26.9	33.9
120°	5.8	2.3	1.2	1.2	1.2	2.3	5.8	11.7	17.5	23.4	29.2
122.5°	5.8	2.3	1.2	1.2	1.2	2.3	4.7	9.3	15.2	19.8	25.7
125°	4.7	2.3	1.2	1.2	1.2	1.2	4.7	8.2	12.8	17.5	22.2
127.5°	4.7	2.3	1.2	1.2	1.2	1.2	3.5	7.0	10.5	15.2	19.8
130°	3.5	2.3	1.2	1.2	1.2	1.2	2.3	5.8	9.3	12.8	16.3
132.5°	3.5	2.3	1.2	1.2	1.2	1.2	2.3	4.7	7.0	10.5	14.0
135°	3.5	1.2	1.2	1.2	1.2	1.2	1.2	3.5	5.8	8.2	10.5
137.5°	2.3	1.2	1.2	1.2	1.2	1.2	1.2	2.3	4.7	5.8	9.3
140°	2.3	1.2	1.2	1.2	1.2	1.2	1.2	2.3	3.5	4.7	7.0
142.5°	2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	3.5	5.8
145°	2.3	1.2	1.2	2.3	2.3	1.2	1.2	2.3	2.3	3.5	4.7
147.5°	2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5
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-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2272.2	2245.4	2259.4	2254.7	2259.4	2271.1	2269.9	2266.4	2268.7	2262.9	2257.0
5°	2267.6	2240.7	2254.7	2248.9	2254.7	2266.4	2264.1	2260.5	2264.1	2257.0	2251.2
7.5°	2261.7	2237.2	2253.5	2252.4	2262.9	2278.1	2279.2	2279.2	2287.4	2276.9	2272.2
10°	2261.7	2248.9	2271.1	2279.2	2306.1	2325.9	2328.3	2332.9	2347.0	2344.6	2332.9
12.5°	2286.2	2283.9	2316.6	2336.4	2361.0	2389.0	2404.2	2408.8	2418.2	2411.2	2406.5
15°	2317.8	2329.4	2365.6	2387.8	2414.7	2435.7	2439.2	2441.5	2448.5	2438.0	2429.9
17.5°	2359.8	2366.8	2396.0	2405.3	2422.9	2426.4	2421.7	2410.0	2410.0	2386.7	2379.6
20°	2379.6	2376.1	2387.8	2372.6	2365.6	2344.6	2324.8	2302.6	2301.4	2276.9	2274.6
22.5°	2362.1	2338.8	2314.3	2276.9	2260.5	2230.2	2203.3	2190.5	2182.3	2150.8	2142.6
25°	2300.2	2243.0	2206.8	2162.5	2122.8	2087.7	2062.1	2035.2	2009.5	1983.8	1972.1
27.5°	2192.8	2139.1	2080.7	2018.8	1964.0	1910.3	1867.1	1840.2	1815.7	1781.8	1764.3
30°	2060.9	1986.2	1921.9	1862.4	1772.5	1707.1	1670.9	1617.2	1598.5	1583.3	1550.6
32.5°	1905.6	1815.7	1728.1	1647.5	1555.3	1494.6	1446.7	1407.0	1395.3	1355.6	1346.3
35°	1733.9	1616.0	1516.8	1437.4	1370.8	1297.2	1257.5	1230.7	1207.3	1180.5	1175.8
37.5°	1531.9	1425.7	1313.6	1243.5	1191.0	1127.9	1097.6	1078.9	1068.4	1048.5	1045.0
40°	1328.8	1222.5	1145.5	1075.4	1042.7	1008.8	986.7	978.5	973.8	966.8	959.8
42.5°	1144.3	1050.9	996.0	949.3	935.3	918.9	913.1	917.8	913.1	910.8	909.6
45°	987.8	916.6	878.1	864.1	860.5	855.9	860.5	868.7	869.9	867.6	867.6
47.5°	845.4	811.5	795.2	797.5	803.3	806.8	815.0	825.5	827.9	822.0	824.4
50°	752.0	732.1	728.6	737.9	750.8	755.5	764.8	773.0	771.8	769.5	767.1
52.5°	664.4	658.5	667.9	677.2	691.2	693.6	697.1	700.6	699.4	694.7	692.4
55°	590.8	595.5	603.7	607.2	617.7	616.5	617.7	617.7	613.0	610.7	607.2
57.5°	524.3	525.4	530.1	531.3	537.1	534.8	533.6	531.3	524.3	523.1	519.6
60°	456.5	454.2	464.7	456.5	461.2	456.5	455.4	449.5	442.5	441.4	439.0
62.5°	392.3	387.7	394.7	391.2	393.5	388.8	386.5	379.5	373.6	372.5	371.3
65°	335.1	332.8	339.8	338.6	341.0	335.1	332.8	328.1	323.4	322.3	321.1
67.5°	287.2	293.1	296.6	296.6	298.9	297.7	291.9	290.7	289.6	284.9	284.9
70°	252.2	255.7	262.7	263.9	262.7	265.1	260.4	259.2	258.0	255.7	254.5
72.5°	224.2	228.9	235.9	237.0	235.9	235.9	233.5	232.4	232.4	228.9	228.9
75°	202.0	207.8	213.7	213.7	213.7	211.3	209.0	209.0	206.7	205.5	203.2
77.5°	183.3	190.3	195.0	193.8	192.7	190.3	190.3	186.8	183.3	183.3	181.0
80°	169.3	174.0	177.5	176.3	175.1	171.6	170.5	167.0	164.6	161.1	161.1
82.5°	154.1	160.0	162.3	161.1	158.8	155.3	154.1	151.8	149.5	148.3	146.0
85°	141.3	147.1	148.3	146.0	143.6	141.3	140.1	138.9	137.8	135.4	135.4
87.5°	128.4	134.3	134.3	133.1	130.8	129.6	128.4	127.3	126.1	124.9	123.8
90°	117.9	122.6	122.6	121.4	120.3	119.1	117.9	116.8	115.6	114.4	114.4
92.5°	107.4	112.1	112.1	110.9	109.8	108.6	108.6	107.4	106.3	105.1	103.9
95°	98.1	102.8	102.8	102.8	101.6	100.4	100.4	99.2	98.1	98.1	96.9
97.5°	88.7	93.4	93.4	93.4	92.2	91.1	91.1	89.9	89.9	89.9	88.7
100°	80.6	84.1	85.2	85.2	84.1	84.1	84.1	82.9	82.9	82.9	81.7
102.5°	72.4	75.9	78.2	78.2	78.2	77.1	77.1	77.1	77.1	77.1	75.9
105°	65.4	68.9	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
107.5°	59.5	63.1	65.4	66.6	67.7	67.7	68.9	68.9	68.9	68.9	68.9
110°	53.7	57.2	60.7	61.9	63.1	64.2	64.2	65.4	64.2	64.2	64.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	47.9	52.5	54.9	57.2	58.4	59.5	60.7	60.7	60.7	60.7	60.7
115°	43.2	47.9	50.2	52.5	54.9	56.0	56.0	57.2	57.2	57.2	56.0
117.5°	38.5	43.2	45.5	47.9	49.0	51.4	52.5	52.5	52.5	52.5	51.4
120°	35.0	38.5	40.9	43.2	45.5	46.7	47.9	47.9	47.9	47.9	47.9
122.5°	30.4	33.9	37.4	39.7	40.9	42.0	43.2	43.2	43.2	43.2	43.2
125°	26.9	30.4	32.7	35.0	36.2	38.5	38.5	38.5	38.5	38.5	38.5
127.5°	23.4	26.9	29.2	31.5	32.7	33.9	35.0	35.0	35.0	35.0	35.0
130°	19.8	23.4	25.7	28.0	29.2	30.4	30.4	31.5	31.5	31.5	31.5
132.5°	17.5	19.8	22.2	24.5	25.7	26.9	26.9	28.0	28.0	28.0	28.0
135°	14.0	17.5	18.7	21.0	22.2	23.4	23.4	24.5	24.5	24.5	24.5
137.5°	11.7	14.0	16.3	18.7	19.8	19.8	21.0	21.0	22.2	22.2	22.2
140°	9.3	10.5	14.0	15.2	16.3	17.5	18.7	18.7	18.7	18.7	18.7
142.5°	7.0	9.3	10.5	12.8	14.0	15.2	16.3	16.3	16.3	16.3	16.3
145°	5.8	7.0	8.2	10.5	11.7	12.8	14.0	14.0	14.0	14.0	14.0
147.5°	4.7	5.8	7.0	8.2	9.3	10.5	11.7	11.7	11.7	11.7	11.7
150°	3.5	4.7	5.8	5.8	7.0	8.2	9.3	10.5	10.5	10.5	10.5
152.5°	3.5	3.5	4.7	4.7	5.8	7.0	8.2	8.2	8.2	8.2	8.2
155°	2.3	3.5	3.5	3.5	4.7	4.7	5.8	7.0	7.0	7.0	7.0
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-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2260.5	2265.2	2262.9	2259.4	2258.2	2264.1	2258.2	2231.4	2241.9	2243.0	2251.2
5°	2257.0	2260.5	2258.2	2255.9	2252.4	2259.4	2252.4	2224.4	2234.9	2236.0	2244.2
7.5°	2280.4	2281.6	2281.6	2275.7	2266.4	2269.9	2260.5	2229.0	2234.9	2234.9	2240.7
10°	2338.8	2341.1	2344.6	2329.4	2317.8	2308.4	2295.6	2257.0	2255.9	2246.5	2246.5
12.5°	2414.7	2408.8	2403.0	2396.0	2386.7	2375.0	2356.3	2310.8	2295.6	2280.4	2265.2
15°	2436.9	2434.5	2433.4	2429.9	2424.0	2420.5	2406.5	2361.0	2338.8	2320.1	2293.2
17.5°	2378.5	2383.2	2398.3	2399.5	2406.5	2420.5	2418.2	2386.7	2366.8	2358.6	2325.9
20°	2273.4	2274.6	2293.2	2301.4	2331.8	2355.1	2372.6	2369.1	2364.5	2373.8	2349.3
22.5°	2147.3	2155.5	2175.3	2188.2	2217.3	2244.2	2272.2	2287.4	2311.9	2350.5	2345.8
25°	1975.6	1986.2	2014.2	2035.2	2076.1	2116.9	2154.3	2181.1	2210.3	2283.9	2308.4
27.5°	1770.1	1786.5	1822.7	1843.7	1900.9	1943.0	1996.7	2049.2	2090.1	2174.1	2224.4
30°	1554.1	1568.1	1606.7	1635.9	1684.9	1742.1	1809.8	1884.6	1952.3	2037.5	2100.6
32.5°	1352.1	1367.3	1398.8	1424.5	1479.4	1527.3	1602.0	1694.2	1757.3	1875.2	1959.3
35°	1175.8	1189.8	1212.0	1234.2	1279.7	1328.8	1393.0	1482.9	1563.5	1686.1	1792.3
37.5°	1052.0	1054.4	1067.2	1080.1	1113.9	1151.3	1201.5	1280.9	1355.6	1487.6	1604.3
40°	963.3	963.3	970.3	973.8	989.0	1011.2	1042.7	1104.6	1166.5	1266.9	1409.3
42.5°	908.4	906.1	906.1	907.3	906.1	916.6	935.3	964.5	1019.3	1102.3	1213.2
45°	867.6	862.9	859.4	851.2	846.5	846.5	847.7	858.2	889.7	943.5	1033.4
47.5°	822.0	820.9	815.0	805.7	797.5	791.7	782.3	778.8	788.2	818.5	879.2
50°	769.5	763.6	757.8	750.8	741.5	735.6	718.1	719.3	711.1	725.1	756.6
52.5°	692.4	687.7	685.4	679.6	676.1	673.7	659.7	645.7	642.2	644.5	656.2
55°	607.2	609.5	600.2	604.8	603.7	593.2	587.3	576.8	573.3	572.1	578.0
57.5°	518.4	520.8	514.9	519.6	519.6	513.8	510.3	510.3	502.1	495.1	503.3
60°	437.9	433.2	436.7	442.5	442.5	439.0	436.7	436.7	430.9	428.5	434.4
62.5°	372.5	367.8	371.3	377.1	378.3	376.0	373.6	373.6	366.6	366.6	371.3
65°	322.3	323.4	322.3	326.9	326.9	328.1	325.8	323.4	315.3	318.8	317.6
67.5°	286.1	284.9	284.9	289.6	288.4	290.7	288.4	284.9	279.1	274.4	273.2
70°	255.7	254.5	254.5	256.9	258.0	258.0	256.9	254.5	246.4	241.7	238.2
72.5°	228.9	227.7	228.9	230.0	231.2	232.4	231.2	228.9	221.9	216.0	210.2
75°	204.3	203.2	206.7	206.7	207.8	207.8	209.0	207.8	202.0	195.0	188.0
77.5°	179.8	181.0	184.5	185.7	188.0	189.2	190.3	190.3	184.5	178.6	169.3
80°	160.0	162.3	164.6	165.8	168.1	171.6	172.8	174.0	169.3	163.5	153.0
82.5°	146.0	147.1	149.5	150.6	154.1	155.3	156.5	158.8	156.5	150.6	138.9
85°	134.3	135.4	137.8	137.8	140.1	142.5	143.6	144.8	143.6	137.8	126.1
87.5°	123.8	124.9	126.1	127.3	128.4	129.6	130.8	131.9	130.8	124.9	114.4
90°	114.4	114.4	115.6	115.6	116.8	117.9	120.3	120.3	119.1	114.4	103.9
92.5°	103.9	105.1	105.1	106.3	107.4	108.6	109.8	109.8	108.6	103.9	94.6
95°	96.9	96.9	98.1	98.1	99.2	99.2	100.4	100.4	99.2	94.6	85.2
97.5°	88.7	88.7	88.7	88.7	89.9	89.9	91.1	91.1	89.9	85.2	77.1
100°	81.7	81.7	81.7	81.7	81.7	82.9	82.9	82.9	81.7	77.1	68.9
102.5°	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	73.6	70.1	61.9
105°	72.4	72.4	72.4	71.2	71.2	71.2	70.1	70.1	66.6	63.1	56.0
107.5°	67.7	67.7	67.7	66.6	66.6	65.4	64.2	64.2	60.7	57.2	50.2
110°	64.2	64.2	64.2	63.1	61.9	60.7	59.5	58.4	54.9	50.2	44.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.7	60.7	59.5	59.5	58.4	57.2	54.9	53.7	50.2	45.5	39.7
115°	56.0	56.0	56.0	54.9	53.7	52.5	51.4	49.0	45.5	40.9	35.0
117.5°	51.4	51.4	51.4	50.2	49.0	47.9	46.7	44.4	40.9	36.2	31.5
120°	46.7	46.7	46.7	45.5	44.4	43.2	42.0	39.7	36.2	32.7	26.9
122.5°	43.2	43.2	42.0	40.9	39.7	38.5	37.4	35.0	32.7	28.0	23.4
125°	38.5	38.5	37.4	37.4	36.2	35.0	33.9	31.5	28.0	24.5	21.0
127.5°	35.0	33.9	33.9	33.9	32.7	31.5	29.2	28.0	24.5	21.0	17.5
130°	30.4	30.4	30.4	29.2	29.2	28.0	25.7	23.4	21.0	18.7	15.2
132.5°	26.9	26.9	26.9	26.9	25.7	24.5	22.2	21.0	18.7	15.2	12.8
135°	24.5	24.5	23.4	23.4	22.2	21.0	19.8	17.5	15.2	12.8	10.5
137.5°	21.0	21.0	21.0	19.8	19.8	18.7	16.3	15.2	14.0	11.7	9.3
140°	18.7	18.7	17.5	17.5	16.3	16.3	15.2	12.8	11.7	9.3	8.2
142.5°	16.3	16.3	15.2	15.2	14.0	14.0	12.8	11.7	9.3	8.2	5.8
145°	14.0	14.0	12.8	12.8	12.8	11.7	10.5	9.3	8.2	7.0	5.8
147.5°	11.7	11.7	11.7	10.5	10.5	9.3	9.3	8.2	7.0	5.8	4.7
150°	10.5	10.5	9.3	9.3	9.3	8.2	7.0	7.0	5.8	4.7	3.5
152.5°	8.2	8.2	8.2	8.2	7.0	7.0	5.8	5.8	4.7	3.5	3.5
155°	7.0	7.0	7.0	5.8	5.8	5.8	4.7	4.7	3.5	3.5	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-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2247.7	2246.5	2257.0	2255.9	2241.9	2262.9	2276.9
5°	2241.9	2240.7	2250.0	2252.4	2237.2	2259.4	2274.6
7.5°	2237.2	2236.0	2246.5	2250.0	2234.9	2254.7	2271.1
10°	2238.4	2232.5	2241.9	2244.2	2230.2	2251.2	2265.2
12.5°	2246.5	2232.5	2236.0	2236.0	2223.2	2241.9	2257.0
15°	2266.4	2237.2	2232.5	2229.0	2212.7	2230.2	2245.4
17.5°	2288.6	2248.9	2232.5	2220.8	2201.0	2216.2	2232.5
20°	2310.8	2261.7	2234.9	2216.2	2189.3	2203.3	2215.0
22.5°	2321.3	2273.4	2237.2	2209.2	2175.3	2182.3	2195.2
25°	2307.3	2268.7	2232.5	2198.7	2157.8	2159.0	2169.5
27.5°	2255.9	2245.4	2222.0	2188.2	2143.8	2137.9	2146.1
30°	2168.3	2197.5	2198.7	2174.1	2127.4	2115.8	2119.3
32.5°	2045.7	2111.1	2149.6	2145.0	2104.1	2087.7	2090.1
35°	1904.4	1986.2	2070.2	2098.2	2069.1	2056.2	2051.5
37.5°	1735.1	1844.9	1957.0	2025.9	2021.2	2013.0	2008.3
40°	1548.3	1680.2	1813.3	1923.1	1957.0	1957.0	1959.3
42.5°	1348.6	1502.8	1648.7	1787.7	1867.1	1884.6	1891.6
45°	1156.0	1311.3	1470.1	1630.0	1736.3	1791.2	1811.0
47.5°	980.8	1137.3	1287.9	1463.1	1604.3	1675.6	1707.1
50°	831.4	948.1	1106.9	1280.9	1435.0	1522.6	1584.5
52.5°	707.6	798.7	937.6	1099.9	1255.2	1375.5	1432.7
55°	603.7	665.6	783.5	923.6	1071.9	1196.8	1263.4
57.5°	516.1	565.1	645.7	762.5	887.4	1011.2	1082.4
60°	439.0	472.9	527.8	620.0	726.3	832.5	901.4
62.5°	372.5	394.7	430.9	498.6	581.5	664.4	728.6
65°	321.1	330.4	350.3	392.3	455.4	518.4	573.3
67.5°	270.9	276.7	291.9	317.6	349.1	394.7	430.9
70°	233.5	233.5	234.7	249.9	266.2	295.4	321.1
72.5°	203.2	199.7	192.7	196.2	199.7	216.0	232.4
75°	178.6	170.5	158.8	154.1	151.8	154.1	163.5
77.5°	157.6	146.0	131.9	120.3	110.9	107.4	115.6
80°	140.1	126.1	109.8	94.6	79.4	71.2	74.7
82.5°	126.1	108.6	91.1	73.6	56.0	44.4	44.4
85°	110.9	94.6	75.9	57.2	39.7	24.5	22.2
87.5°	100.4	82.9	63.1	45.5	28.0	12.8	7.0
90°	89.9	72.4	53.7	36.2	19.8	5.8	0.0
92.5°	80.6	64.2	46.7	29.2	14.0	3.5	0.0
95°	72.4	57.2	39.7	24.5	11.7	2.3	1.2
97.5°	64.2	50.2	35.0	19.8	8.2	2.3	1.2
100°	58.4	44.4	30.4	16.3	7.0	1.2	1.2
102.5°	51.4	39.7	25.7	14.0	5.8	1.2	1.2
105°	45.5	35.0	22.2	11.7	4.7	1.2	1.2
107.5°	40.9	30.4	19.8	10.5	4.7	1.2	1.2
110°	36.2	26.9	17.5	9.3	3.5	1.2	1.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	32.7	23.4	15.2	8.2	2.3	1.2	1.2
115°	28.0	21.0	12.8	7.0	2.3	1.2	1.2
117.5°	24.5	17.5	11.7	5.8	2.3	1.2	1.2
120°	21.0	15.2	9.3	4.7	1.2	1.2	1.2
122.5°	18.7	12.8	8.2	4.7	1.2	1.2	1.2
125°	16.3	11.7	7.0	3.5	1.2	1.2	1.2
127.5°	14.0	9.3	5.8	2.3	1.2	1.2	1.2
130°	11.7	8.2	4.7	2.3	1.2	1.2	1.2
132.5°	9.3	7.0	4.7	2.3	1.2	1.2	1.2
135°	8.2	5.8	3.5	2.3	1.2	1.2	1.2
137.5°	7.0	4.7	2.3	2.3	2.3	1.2	1.2
140°	5.8	3.5	2.3	2.3	2.3	2.3	1.2
142.5°	4.7	3.5	2.3	2.3	2.3	2.3	1.2
145°	3.5	2.3	2.3	2.3	2.3	2.3	1.2
147.5°	3.5	2.3	2.3	2.3	2.3	2.3	1.2
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)