

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-LN-UNV-L940-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

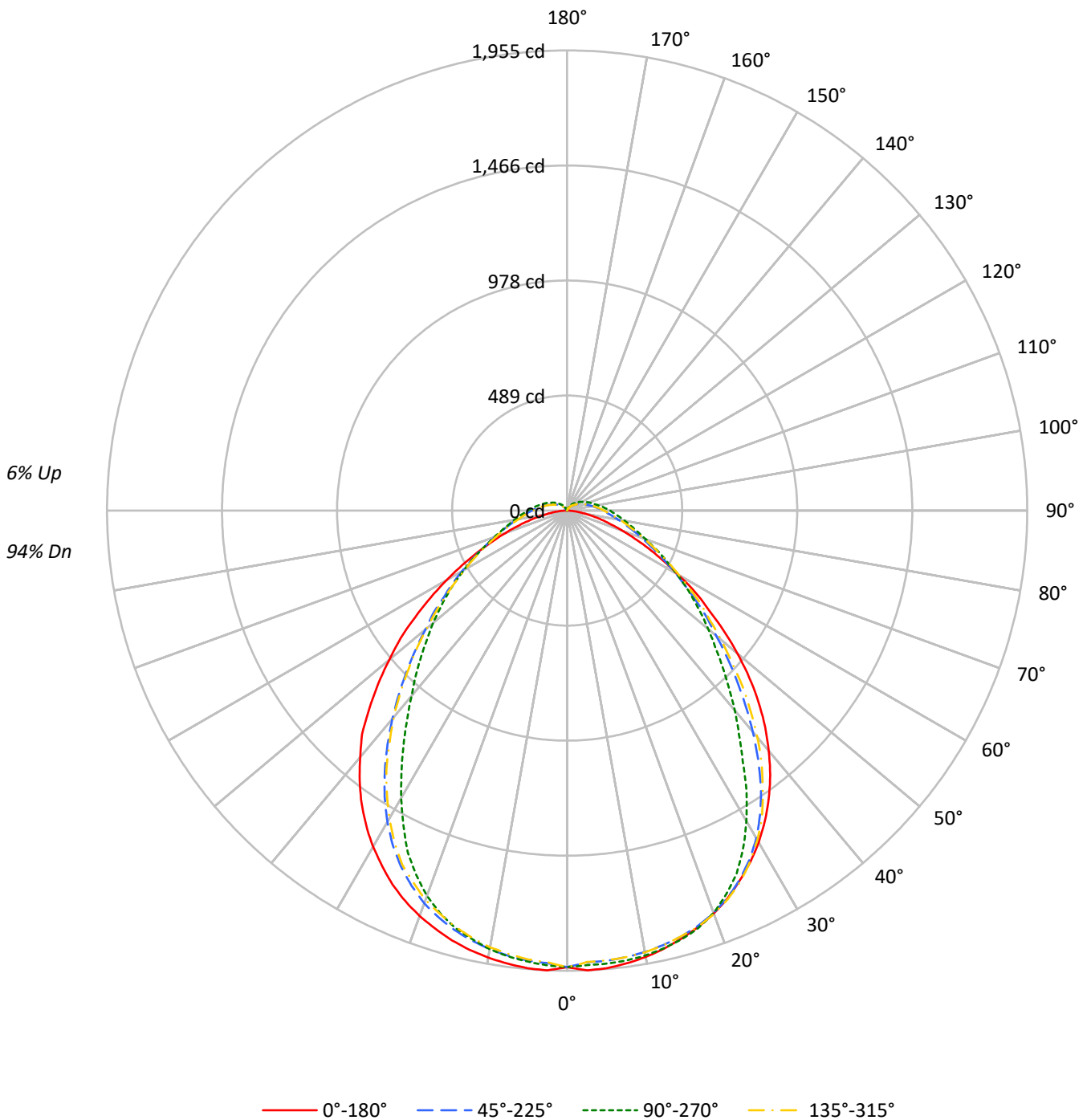
Lumens per Lamp: N/A
Luminaire Lumens: 4908.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
Input Voltage (V): NR
Input Current (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	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15672	15672	15672	15672
5°	15784	15173	15784	15106
10°	15713	14770	15740	14564
15°	15613	14329	15683	13956
20°	15492	13761	15583	13180
25°	15243	12919	15412	12159
30°	14921	11682	15116	10815
35°	14418	10166	14696	9466
40°	13696	8892	14058	8249
45°	12744	7729	13158	7286
50°	11443	6792	11947	6449
55°	9898	5997	10618	5694
60°	8325	5265	9077	4963
65°	6824	4656	7512	4317
70°	5431	4131	6082	3822
75°	4264	3816	4801	3510
80°	3079	3681	3625	3364
85°	1892	3701	2548	3402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	3.7
10°-20°	527.2	10.7
20°-30°	781.4	15.9
30°-40°	868.1	17.7
40°-50°	786.9	16.0
50°-60°	609.8	12.4
60°-70°	414.1	8.4
70°-80°	263.4	5.4
80°-90°	168.4	3.4
90°-100°	113.5	2.3
100°-110°	77.8	1.6
110°-120°	51.9	1.1
120°-130°	32.3	0.7
130°-140°	17.8	0.4
140°-150°	8.4	0.2
150°-160°	3.1	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1492.4	30.4
0°-40°	2360.5	48.1
0°-60°	3757.1	76.6
0°-90°	4603.0	93.8
90°-120°	243.2	5.0
90°-150°	301.7	6.1
90°-180°	305.0	6.2
0°-180°	4908.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1939	1939	1939	1939	1939	
5°	1951	1932	1951	1923	1951	185
15°	1882	1885	1890	1836	1882	531
25°	1734	1702	1754	1602	1734	799
35°	1494	1301	1522	1212	1494	932
45°	1150	930	1187	877	1150	883
55°	734	654	787	621	734	661
65°	381	440	419	408	381	382
75°	152	293	172	270	152	164
85°	28	211	37	194	28	33
90°	0	182	2	166	0	2
95°	1	156	0	145	1	1
105°	1	114	0	108	1	1
115°	1	86	0	80	1	1
125°	1	64	1	56	1	1
135°	1	45	1	36	1	1
145°	1	29	1	20	1	1
155°	1	16	1	8	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1955.4	1953.2	1951.1	1947.9	1951.1	1959.6	1954.3	1942.6	1940.4	1921.2	1929.8
5°	1951.1	1947.9	1945.8	1942.6	1946.8	1957.5	1952.2	1941.5	1938.3	1920.2	1929.8
7.5°	1940.4	1938.3	1935.1	1935.1	1939.4	1950.0	1945.8	1934.0	1931.9	1913.8	1924.4
10°	1925.5	1924.4	1922.3	1922.3	1926.6	1939.4	1934.0	1923.4	1921.2	1904.2	1915.9
12.5°	1906.3	1907.4	1904.2	1904.2	1910.6	1923.4	1919.1	1907.4	1905.2	1890.3	1902.0
15°	1881.8	1882.8	1880.7	1881.8	1888.2	1903.1	1897.8	1887.1	1885.0	1873.2	1882.8
17.5°	1854.0	1855.1	1855.1	1854.0	1861.5	1876.4	1872.2	1862.5	1859.3	1849.7	1861.5
20°	1822.0	1822.0	1822.0	1822.0	1830.5	1845.5	1840.1	1832.7	1826.3	1818.8	1828.4
22.5°	1782.5	1781.5	1782.5	1785.7	1794.3	1806.0	1802.8	1794.3	1784.7	1780.4	1787.9
25°	1734.5	1737.7	1738.8	1742.0	1752.7	1762.3	1759.1	1750.5	1735.6	1732.4	1734.5
27.5°	1684.4	1686.5	1689.7	1688.7	1703.6	1713.2	1706.8	1699.3	1678.0	1674.8	1672.7
30°	1627.9	1631.1	1633.2	1632.1	1643.9	1654.5	1648.1	1638.5	1609.7	1607.6	1590.5
32.5°	1563.9	1567.1	1569.2	1569.2	1586.3	1590.5	1578.8	1564.9	1534.0	1526.5	1511.6
35°	1493.5	1496.7	1497.7	1497.7	1514.8	1513.7	1498.8	1479.6	1445.4	1435.8	1410.2
37.5°	1417.7	1419.8	1420.9	1427.3	1434.8	1428.4	1409.2	1384.6	1359.0	1332.4	1304.6
40°	1332.4	1335.6	1337.7	1342.0	1349.4	1342.0	1314.2	1284.4	1256.6	1226.8	1199.0
42.5°	1244.9	1254.5	1252.4	1251.3	1255.6	1235.3	1214.0	1179.8	1152.1	1121.2	1093.4
45°	1150.0	1148.9	1154.2	1156.4	1155.3	1138.2	1108.4	1077.4	1049.7	1017.7	994.2
47.5°	1049.7	1048.6	1052.9	1055.0	1048.6	1030.5	1007.0	971.8	948.3	920.6	902.5
50°	944.1	944.1	950.5	944.1	940.9	922.7	903.5	868.3	850.2	825.7	815.0
52.5°	838.5	848.1	841.7	839.5	836.3	818.2	803.3	774.5	759.5	748.9	736.1
55°	733.9	744.6	740.3	737.1	736.1	721.1	707.3	685.9	676.3	668.9	661.4
57.5°	645.4	644.3	642.2	639.0	640.1	628.3	614.4	602.7	598.4	595.2	597.4
60°	543.0	551.5	548.3	549.4	550.4	548.3	536.6	529.1	530.2	531.2	534.4
62.5°	458.7	466.2	471.5	467.2	469.4	472.6	466.2	464.0	468.3	472.6	476.8
65°	380.8	388.3	393.6	392.6	399.0	405.4	404.3	406.4	416.0	421.4	426.7
67.5°	310.4	317.9	325.4	326.4	336.0	345.6	349.9	357.4	368.0	375.5	381.9
70°	249.6	256.0	264.6	269.9	282.7	295.5	303.0	317.9	324.3	335.0	339.2
72.5°	195.2	200.5	212.3	225.1	235.8	251.8	266.7	279.5	289.1	300.8	306.2
75°	152.5	154.7	167.5	182.4	197.3	215.5	231.5	245.4	258.2	269.9	278.4
77.5°	112.0	115.2	126.9	147.2	164.3	183.5	201.6	216.6	230.4	242.2	253.9
80°	77.9	84.3	97.1	117.3	136.5	157.9	174.9	192.0	206.9	218.7	230.4
82.5°	50.1	55.5	73.6	93.9	114.1	135.5	153.6	170.7	186.7	199.5	210.2
85°	27.7	35.2	53.3	74.7	94.9	116.3	135.5	152.5	168.5	180.3	190.9
87.5°	10.7	21.3	38.4	58.7	78.9	99.2	119.5	135.5	151.5	164.3	173.9
90°	0.0	12.8	28.8	49.1	69.3	89.6	108.8	125.9	140.8	152.5	163.2
92.5°	1.1	8.5	22.4	39.5	58.7	77.9	96.0	113.1	128.0	139.7	149.3
95°	1.1	6.4	18.1	34.1	51.2	69.3	86.4	102.4	116.3	128.0	137.6
97.5°	1.1	4.3	14.9	29.9	44.8	62.9	78.9	93.9	106.7	118.4	125.9
100°	1.1	4.3	12.8	25.6	40.5	56.5	71.5	86.4	98.1	107.7	116.3
102.5°	1.1	3.2	10.7	22.4	36.3	50.1	65.1	78.9	89.6	99.2	107.7
105°	1.1	3.2	9.6	19.2	32.0	45.9	58.7	71.5	83.2	91.7	99.2
107.5°	1.1	2.1	8.5	16.0	27.7	41.6	54.4	65.1	75.7	84.3	91.7
110°	1.1	2.1	7.5	14.9	24.5	37.3	49.1	59.7	69.3	77.9	84.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.1	6.4	13.9	22.4	33.1	44.8	54.4	64.0	71.5	77.9
115°	1.1	2.1	6.4	12.8	20.3	28.8	39.5	50.1	57.6	66.1	71.5
117.5°	1.1	2.1	5.3	10.7	19.2	26.7	36.3	44.8	53.3	60.8	66.1
120°	1.1	2.1	5.3	9.6	17.1	24.5	32.0	40.5	49.1	54.4	59.7
122.5°	1.1	2.1	4.3	9.6	14.9	22.4	28.8	36.3	43.7	50.1	55.5
125°	1.1	2.1	4.3	8.5	13.9	20.3	26.7	32.0	39.5	44.8	50.1
127.5°	1.1	2.1	4.3	7.5	12.8	18.1	24.5	29.9	35.2	40.5	44.8
130°	1.1	2.1	3.2	6.4	11.7	16.0	21.3	27.7	32.0	36.3	40.5
132.5°	1.1	2.1	3.2	6.4	9.6	13.9	19.2	24.5	28.8	33.1	36.3
135°	1.1	2.1	3.2	5.3	8.5	12.8	16.0	21.3	25.6	29.9	33.1
137.5°	1.1	2.1	3.2	5.3	7.5	10.7	13.9	18.1	22.4	25.6	29.9
140°	1.1	2.1	3.2	4.3	6.4	9.6	12.8	14.9	19.2	22.4	25.6
142.5°	1.1	2.1	3.2	4.3	6.4	8.5	10.7	12.8	16.0	19.2	22.4
145°	1.1	2.1	3.2	4.3	5.3	7.5	9.6	11.7	12.8	16.0	18.1
147.5°	1.1	2.1	3.2	4.3	4.3	6.4	8.5	9.6	11.7	12.8	14.9
150°	1.1	2.1	3.2	3.2	4.3	5.3	7.5	8.5	9.6	11.7	12.8
152.5°	1.1	2.1	3.2	3.2	4.3	5.3	6.4	7.5	8.5	9.6	10.7
155°	1.1	2.1	3.2	3.2	3.2	4.3	5.3	6.4	7.5	8.5	9.6
157.5°	2.1	2.1	2.1	3.2	3.2	4.3	4.3	5.3	6.4	6.4	7.5
160°	2.1	2.1	2.1	3.2	3.2	3.2	4.3	4.3	5.3	5.3	6.4
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°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1927.6	1930.8	1940.4	1940.4	1938.3	1936.2	1936.2	1933.0	1935.1	1939.4	1937.2
5°	1927.6	1930.8	1940.4	1940.4	1938.3	1936.2	1935.1	1931.9	1935.1	1939.4	1937.2
7.5°	1921.2	1925.5	1935.1	1935.1	1933.0	1931.9	1929.8	1927.6	1930.8	1935.1	1933.0
10°	1912.7	1917.0	1926.6	1926.6	1924.4	1924.4	1921.2	1919.1	1923.4	1926.6	1925.5
12.5°	1899.9	1905.2	1913.8	1912.7	1910.6	1911.6	1908.4	1904.2	1908.4	1911.6	1912.7
15°	1881.8	1888.2	1896.7	1894.6	1891.4	1893.5	1888.2	1885.0	1888.2	1894.6	1893.5
17.5°	1858.3	1862.5	1869.0	1869.0	1865.8	1863.6	1861.5	1858.3	1860.4	1864.7	1865.8
20°	1825.2	1830.5	1833.7	1830.5	1829.5	1826.3	1822.0	1818.8	1823.1	1829.5	1830.5
22.5°	1781.5	1782.5	1790.0	1782.5	1777.2	1776.1	1771.9	1765.5	1771.9	1777.2	1778.3
25°	1727.1	1732.4	1729.2	1716.4	1716.4	1707.9	1705.7	1702.5	1703.6	1713.2	1717.5
27.5°	1657.7	1659.9	1651.3	1640.7	1631.1	1625.7	1618.3	1619.3	1619.3	1632.1	1636.4
30°	1582.0	1570.3	1562.8	1545.7	1538.3	1525.5	1523.3	1523.3	1521.2	1527.6	1546.8
32.5°	1491.3	1475.3	1463.6	1447.6	1434.8	1422.0	1415.6	1418.8	1417.7	1433.7	1440.1
35°	1392.1	1382.5	1358.0	1337.7	1330.2	1311.0	1311.0	1301.4	1307.8	1326.0	1333.4
37.5°	1287.6	1272.6	1252.4	1230.0	1224.6	1209.7	1204.4	1199.0	1212.9	1216.1	1223.6
40°	1180.9	1167.0	1147.8	1126.5	1126.5	1108.4	1108.4	1108.4	1109.4	1115.8	1129.7
42.5°	1079.6	1064.6	1047.6	1032.6	1030.5	1016.6	1016.6	1015.5	1017.7	1023.0	1035.8
45°	981.4	969.7	951.5	944.1	945.1	930.2	933.4	930.2	934.5	939.8	944.1
47.5°	890.7	883.3	875.8	865.1	861.9	860.9	855.5	851.3	858.7	858.7	865.1
50°	806.5	802.2	797.9	791.5	792.6	788.3	781.9	781.9	787.3	788.3	792.6
52.5°	732.9	727.5	722.2	723.3	724.3	722.2	719.0	715.8	719.0	721.1	726.5
55°	659.3	655.0	660.3	658.2	660.3	658.2	656.1	653.9	659.3	656.1	661.4
57.5°	593.1	597.4	599.5	595.2	598.4	596.3	597.4	594.2	598.4	600.6	599.5
60°	532.3	538.7	535.5	536.6	540.8	538.7	534.4	537.6	541.9	543.0	541.9
62.5°	476.8	484.3	487.5	485.4	486.4	484.3	487.5	483.2	488.6	490.7	487.5
65°	426.7	435.2	437.4	437.4	437.4	435.2	438.4	439.5	441.6	441.6	439.5
67.5°	384.0	391.5	393.6	395.8	393.6	391.5	391.5	392.6	396.8	399.0	396.8
70°	345.6	353.1	354.2	354.2	355.2	357.4	353.1	355.2	358.4	359.5	358.4
72.5°	312.6	320.0	322.2	321.1	322.2	323.2	323.2	321.1	324.3	326.4	326.4
75°	285.9	290.2	292.3	292.3	293.4	294.4	294.4	293.4	295.5	296.6	297.6
77.5°	261.4	264.6	267.8	267.8	268.8	267.8	269.9	269.9	271.0	272.0	273.1
80°	236.8	241.1	243.2	244.3	246.4	247.5	247.5	247.5	248.6	249.6	249.6
82.5°	217.6	220.8	224.0	227.2	227.2	228.3	228.3	228.3	229.4	229.4	230.4
85°	198.4	202.7	205.9	208.0	209.1	210.2	210.2	211.2	211.2	211.2	212.3
87.5°	181.3	186.7	188.8	190.9	192.0	194.1	194.1	194.1	195.2	195.2	195.2
90°	169.6	174.9	177.1	179.2	180.3	181.3	181.3	182.4	182.4	183.5	183.5
92.5°	155.7	161.1	165.3	165.3	166.4	168.5	167.5	167.5	168.5	169.6	169.6
95°	145.1	149.3	152.5	153.6	154.7	154.7	154.7	155.7	154.7	155.7	155.7
97.5°	132.3	136.5	139.7	141.9	142.9	142.9	142.9	144.0	142.9	144.0	144.0
100°	121.6	125.9	129.1	130.1	132.3	132.3	132.3	132.3	132.3	132.3	133.3
102.5°	113.1	117.3	119.5	120.5	121.6	122.7	122.7	122.7	122.7	123.7	123.7
105°	104.5	108.8	110.9	112.0	113.1	114.1	114.1	114.1	115.2	115.2	114.1
107.5°	97.1	100.3	102.4	104.5	105.6	105.6	106.7	106.7	106.7	106.7	106.7
110°	89.6	92.8	96.0	98.1	98.1	99.2	99.2	100.3	100.3	99.2	100.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	82.1	86.4	88.5	90.7	91.7	92.8	92.8	92.8	92.8	92.8	92.8
115°	75.7	80.0	82.1	84.3	85.3	86.4	86.4	86.4	86.4	86.4	86.4
117.5°	70.4	74.7	76.8	77.9	78.9	80.0	81.1	81.1	81.1	81.1	80.0
120°	65.1	68.3	70.4	72.5	73.6	74.7	74.7	74.7	74.7	74.7	74.7
122.5°	59.7	62.9	65.1	67.2	68.3	69.3	69.3	69.3	69.3	69.3	69.3
125°	54.4	57.6	59.7	61.9	62.9	64.0	64.0	64.0	64.0	64.0	64.0
127.5°	49.1	52.3	55.5	56.5	57.6	58.7	58.7	58.7	59.7	58.7	58.7
130°	43.7	46.9	50.1	51.2	52.3	53.3	54.4	54.4	54.4	54.4	53.3
132.5°	39.5	42.7	44.8	45.9	48.0	48.0	49.1	49.1	49.1	49.1	48.0
135°	36.3	38.4	40.5	41.6	43.7	43.7	43.7	44.8	44.8	43.7	42.7
137.5°	32.0	34.1	36.3	37.3	38.4	39.5	39.5	40.5	39.5	39.5	39.5
140°	29.9	30.9	33.1	34.1	35.2	35.2	35.2	36.3	36.3	35.2	35.2
142.5°	25.6	27.7	29.9	30.9	32.0	32.0	32.0	32.0	32.0	32.0	32.0
145°	21.3	24.5	25.6	27.7	27.7	28.8	28.8	28.8	28.8	28.8	27.7
147.5°	18.1	20.3	23.5	24.5	24.5	25.6	25.6	25.6	25.6	25.6	24.5
150°	13.9	16.0	19.2	21.3	21.3	22.4	22.4	22.4	22.4	21.3	21.3
152.5°	11.7	13.9	14.9	17.1	18.1	18.1	18.1	19.2	18.1	18.1	18.1
155°	10.7	11.7	12.8	13.9	14.9	16.0	16.0	16.0	16.0	14.9	14.9
157.5°	8.5	9.6	10.7	11.7	12.8	13.9	13.9	13.9	13.9	13.9	12.8
160°	6.4	7.5	8.5	8.5	9.6	10.7	11.7	10.7	10.7	10.7	10.7
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1935.1	1934.0	1937.2	1931.9	1915.9	1920.2	1918.0	1927.6	1929.8	1931.9	1941.5
5°	1935.1	1934.0	1936.2	1931.9	1914.8	1918.0	1915.9	1925.5	1927.6	1928.7	1938.3
7.5°	1930.8	1929.8	1933.0	1927.6	1909.5	1913.8	1910.6	1920.2	1921.2	1922.3	1930.8
10°	1922.3	1921.2	1923.4	1919.1	1901.0	1905.2	1901.0	1910.6	1910.6	1912.7	1919.1
12.5°	1909.5	1907.4	1911.6	1906.3	1886.0	1891.4	1889.2	1895.6	1896.7	1897.8	1904.2
15°	1891.4	1889.2	1892.4	1889.2	1871.1	1872.2	1869.0	1878.6	1879.6	1877.5	1883.9
17.5°	1864.7	1862.5	1869.0	1866.8	1848.7	1852.9	1851.9	1854.0	1857.2	1851.9	1860.4
20°	1831.6	1833.7	1835.9	1836.9	1823.1	1823.1	1822.0	1826.3	1829.5	1825.2	1831.6
22.5°	1782.5	1787.9	1794.3	1796.4	1786.8	1785.7	1792.1	1790.0	1793.2	1791.1	1795.3
25°	1720.7	1731.3	1737.7	1744.1	1738.8	1740.9	1750.5	1752.7	1752.7	1751.6	1755.9
27.5°	1643.9	1657.7	1669.5	1683.3	1678.0	1682.3	1698.3	1700.4	1704.7	1700.4	1708.9
30°	1552.1	1564.9	1587.3	1607.6	1609.7	1616.1	1638.5	1640.7	1652.4	1648.1	1651.3
32.5°	1460.4	1466.8	1492.4	1512.7	1525.5	1541.5	1566.0	1570.3	1586.3	1589.5	1589.5
35°	1345.2	1363.3	1386.8	1415.6	1431.6	1448.6	1481.7	1488.1	1511.6	1519.1	1527.6
37.5°	1248.1	1265.2	1280.1	1310.0	1338.8	1358.0	1384.6	1400.6	1425.2	1439.0	1449.7
40°	1144.6	1158.5	1174.5	1204.4	1228.9	1257.7	1284.4	1303.6	1334.5	1350.5	1364.4
42.5°	1046.5	1057.2	1074.2	1095.6	1121.2	1153.2	1178.8	1201.2	1234.2	1256.6	1272.6
45°	959.0	965.4	980.3	996.3	1018.7	1051.8	1076.4	1105.2	1131.8	1155.3	1174.5
47.5°	876.9	885.4	892.9	903.5	923.8	944.1	972.9	1000.6	1027.3	1052.9	1072.1
50°	801.1	801.1	812.9	820.3	834.2	852.3	874.7	893.9	927.0	945.1	969.7
52.5°	727.5	731.8	738.2	742.5	753.1	764.9	783.0	799.0	826.7	843.8	867.3
55°	662.5	666.7	669.9	672.1	678.5	692.3	698.7	711.5	730.7	744.6	764.9
57.5°	600.6	602.7	605.9	607.0	608.0	616.6	621.9	625.1	644.3	658.2	675.3
60°	544.0	544.0	547.2	546.2	545.1	549.4	548.3	551.5	563.2	571.8	579.2
62.5°	490.7	490.7	491.8	489.6	488.6	488.6	484.3	487.5	490.7	491.8	497.1
65°	441.6	447.0	442.7	443.8	437.4	435.2	433.1	426.7	425.6	421.4	423.5
67.5°	397.9	402.2	397.9	397.9	392.6	388.3	383.0	372.3	369.1	360.6	358.4
70°	362.7	359.5	361.6	358.4	352.0	346.7	339.2	330.7	320.0	309.4	301.9
72.5°	328.6	328.6	326.4	323.2	320.0	309.4	300.8	291.2	278.4	264.6	253.9
75°	295.5	296.6	296.6	293.4	288.0	278.4	268.8	255.0	241.1	225.1	211.2
77.5°	272.0	272.0	272.0	266.7	261.4	252.8	241.1	226.2	211.2	192.0	176.0
80°	249.6	248.6	248.6	242.2	236.8	227.2	215.5	200.5	184.5	164.3	146.1
82.5°	231.5	230.4	228.3	223.0	215.5	205.9	194.1	178.1	161.1	142.9	120.5
85°	212.3	211.2	209.1	203.7	196.3	187.7	174.9	158.9	141.9	121.6	100.3
87.5°	195.2	194.1	190.9	187.7	179.2	169.6	156.8	141.9	123.7	104.5	83.2
90°	183.5	181.3	179.2	174.9	167.5	156.8	144.0	128.0	109.9	90.7	69.3
92.5°	169.6	168.5	165.3	161.1	154.7	144.0	131.2	116.3	98.1	80.0	59.7
95°	155.7	154.7	152.5	148.3	141.9	132.3	120.5	105.6	88.5	70.4	52.3
97.5°	142.9	142.9	139.7	136.5	129.1	121.6	109.9	96.0	80.0	64.0	46.9
100°	132.3	132.3	129.1	124.8	119.5	112.0	100.3	87.5	72.5	57.6	40.5
102.5°	122.7	121.6	119.5	115.2	109.9	102.4	91.7	80.0	66.1	51.2	36.3
105°	114.1	113.1	110.9	106.7	102.4	93.9	85.3	73.6	59.7	45.9	32.0
107.5°	105.6	104.5	103.5	99.2	93.9	86.4	77.9	66.1	54.4	41.6	28.8
110°	98.1	97.1	94.9	90.7	85.3	78.9	70.4	60.8	49.1	37.3	25.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	91.7	90.7	88.5	84.3	80.0	72.5	65.1	54.4	44.8	34.1	22.4
115°	85.3	84.3	82.1	77.9	72.5	66.1	58.7	50.1	39.5	29.9	20.3
117.5°	78.9	77.9	75.7	72.5	67.2	60.8	53.3	44.8	35.2	27.7	18.1
120°	73.6	71.5	69.3	66.1	60.8	55.5	48.0	40.5	32.0	24.5	16.0
122.5°	68.3	66.1	64.0	60.8	55.5	50.1	42.7	36.3	29.9	22.4	14.9
125°	61.9	60.8	58.7	55.5	50.1	44.8	39.5	33.1	26.7	20.3	12.8
127.5°	56.5	55.5	53.3	49.1	44.8	40.5	35.2	29.9	23.5	17.1	11.7
130°	52.3	50.1	48.0	44.8	41.6	37.3	32.0	26.7	21.3	14.9	10.7
132.5°	46.9	44.8	42.7	40.5	37.3	33.1	28.8	23.5	19.2	13.9	9.6
135°	42.7	40.5	38.4	36.3	33.1	29.9	25.6	21.3	17.1	12.8	8.5
137.5°	37.3	36.3	35.2	33.1	29.9	26.7	23.5	18.1	14.9	11.7	7.5
140°	34.1	33.1	32.0	28.8	26.7	23.5	20.3	16.0	12.8	9.6	6.4
142.5°	30.9	29.9	27.7	25.6	23.5	21.3	17.1	14.9	11.7	8.5	6.4
145°	26.7	25.6	24.5	22.4	20.3	17.1	14.9	12.8	10.7	7.5	5.3
147.5°	24.5	23.5	21.3	19.2	17.1	14.9	13.9	11.7	8.5	6.4	4.3
150°	20.3	19.2	18.1	16.0	14.9	13.9	11.7	9.6	7.5	5.3	4.3
152.5°	17.1	16.0	14.9	14.9	12.8	11.7	9.6	8.5	6.4	5.3	3.2
155°	14.9	14.9	13.9	12.8	10.7	9.6	8.5	6.4	5.3	4.3	3.2
157.5°	12.8	11.7	10.7	10.7	9.6	8.5	6.4	5.3	4.3	4.3	3.2
160°	10.7	9.6	9.6	8.5	7.5	6.4	5.3	5.3	4.3	3.2	3.2
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1942.6	1930.8	1941.5	1955.4	1955.4	1953.2	1951.1	1955.4	1966.0	1961.8	1949.0
5°	1939.4	1927.6	1937.2	1951.1	1951.1	1947.9	1945.8	1949.0	1960.7	1955.4	1943.6
7.5°	1933.0	1922.3	1928.7	1941.5	1941.5	1938.3	1936.2	1940.4	1950.0	1944.7	1931.9
10°	1921.2	1909.5	1917.0	1928.7	1927.6	1925.5	1922.3	1927.6	1936.2	1928.7	1913.8
12.5°	1906.3	1894.6	1901.0	1911.6	1910.6	1906.3	1904.2	1907.4	1914.8	1910.6	1894.6
15°	1886.0	1874.3	1879.6	1890.3	1887.1	1883.9	1879.6	1880.7	1890.3	1882.8	1865.8
17.5°	1861.5	1848.7	1852.9	1862.5	1859.3	1856.1	1850.8	1851.9	1862.5	1851.9	1833.7
20°	1831.6	1817.7	1820.9	1832.7	1827.3	1822.0	1816.7	1816.7	1827.3	1815.6	1795.3
22.5°	1799.6	1785.7	1787.9	1796.4	1792.1	1782.5	1777.2	1780.4	1785.7	1770.8	1749.5
25°	1760.1	1742.0	1745.2	1753.7	1750.5	1737.7	1732.4	1734.5	1732.4	1720.7	1698.3
27.5°	1714.3	1695.1	1697.2	1702.5	1698.3	1686.5	1680.1	1681.2	1676.9	1662.0	1636.4
30°	1656.7	1647.1	1646.0	1649.2	1642.8	1631.1	1623.6	1621.5	1620.4	1599.1	1568.1
32.5°	1598.0	1589.5	1584.1	1588.4	1580.9	1569.2	1556.4	1556.4	1545.7	1525.5	1498.8
35°	1538.3	1524.4	1519.1	1522.3	1513.7	1498.8	1488.1	1482.8	1466.8	1441.2	1412.4
37.5°	1461.5	1451.9	1445.4	1448.6	1439.0	1428.4	1408.1	1402.8	1385.7	1350.5	1314.2
40°	1378.2	1370.8	1364.4	1367.6	1356.9	1340.9	1322.8	1314.2	1295.0	1255.6	1226.8
42.5°	1288.6	1285.4	1278.0	1289.7	1268.4	1252.4	1234.2	1220.4	1201.2	1158.5	1125.4
45°	1193.7	1201.2	1184.1	1187.3	1173.4	1159.6	1140.4	1120.1	1100.9	1060.4	1023.0
47.5°	1093.4	1098.8	1087.0	1089.2	1074.2	1061.4	1044.4	1018.7	997.4	962.2	929.1
50°	989.9	987.8	987.8	985.7	973.9	957.9	940.9	917.4	896.1	864.1	836.3
52.5°	880.1	884.3	886.5	891.8	876.9	867.3	840.6	820.3	804.3	771.3	747.8
55°	774.5	789.4	785.1	787.3	770.2	762.7	741.4	725.4	701.9	682.7	667.8
57.5°	678.5	681.7	683.8	687.0	679.5	664.6	647.5	634.7	616.6	600.6	589.9
60°	585.6	585.6	586.7	592.0	584.6	571.8	559.0	549.4	536.6	527.0	520.6
62.5°	498.2	505.6	506.7	502.4	492.8	486.4	477.9	472.6	464.0	460.8	458.7
65°	417.1	417.1	417.1	419.2	413.9	409.6	404.3	403.2	406.4	402.2	404.3
67.5°	348.8	345.6	343.5	344.6	342.4	340.3	339.2	342.4	348.8	348.8	354.2
70°	290.2	283.8	279.5	279.5	279.5	280.6	283.8	290.2	300.8	305.1	312.6
72.5°	242.2	228.3	221.9	221.9	223.0	227.2	236.8	248.6	258.2	266.7	276.3
75°	196.3	182.4	172.8	171.7	173.9	180.3	194.1	204.8	220.8	232.6	244.3
77.5°	158.9	141.9	130.1	129.1	132.3	141.9	158.9	172.8	190.9	203.7	216.6
80°	126.9	107.7	98.1	91.7	97.1	108.8	128.0	145.1	162.1	179.2	195.2
82.5°	101.3	83.2	68.3	61.9	68.3	84.3	102.4	122.7	139.7	157.9	173.9
85°	80.0	60.8	43.7	37.3	44.8	61.9	82.1	102.4	121.6	139.7	155.7
87.5°	62.9	43.7	26.7	18.1	27.7	45.9	65.1	85.3	105.6	123.7	139.7
90°	49.1	30.9	14.9	2.1	16.0	33.1	52.3	71.5	91.7	109.9	125.9
92.5°	41.6	23.5	8.5	0.0	9.6	24.5	42.7	61.9	80.0	98.1	114.1
95°	35.2	19.2	6.4	0.0	6.4	19.2	35.2	52.3	70.4	88.5	104.5
97.5°	29.9	14.9	4.3	0.0	4.3	14.9	28.8	45.9	61.9	78.9	93.9
100°	25.6	12.8	3.2	0.0	3.2	11.7	24.5	39.5	55.5	71.5	85.3
102.5°	22.4	10.7	2.1	0.0	2.1	9.6	20.3	34.1	48.0	62.9	76.8
105°	19.2	8.5	2.1	0.0	1.1	7.5	17.1	29.9	42.7	56.5	69.3
107.5°	17.1	7.5	2.1	0.0	1.1	6.4	14.9	25.6	38.4	50.1	61.9
110°	14.9	6.4	2.1	0.0	1.1	4.3	12.8	22.4	33.1	44.8	56.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.8	5.3	1.1	0.0	0.0	3.2	10.7	19.2	28.8	40.5	50.1
115°	11.7	5.3	1.1	0.0	0.0	2.1	8.5	17.1	25.6	36.3	44.8
117.5°	10.7	4.3	1.1	0.0	1.1	2.1	7.5	14.9	22.4	30.9	40.5
120°	9.6	4.3	1.1	0.0	1.1	1.1	5.3	12.8	19.2	27.7	35.2
122.5°	8.5	4.3	1.1	0.0	1.1	1.1	4.3	10.7	17.1	24.5	30.9
125°	7.5	3.2	2.1	1.1	1.1	1.1	3.2	8.5	14.9	20.3	27.7
127.5°	7.5	3.2	2.1	1.1	1.1	1.1	2.1	7.5	11.7	18.1	24.5
130°	6.4	3.2	2.1	1.1	1.1	1.1	1.1	5.3	10.7	14.9	20.3
132.5°	5.3	3.2	2.1	1.1	1.1	1.1	1.1	3.2	7.5	12.8	17.1
135°	5.3	3.2	2.1	1.1	1.1	1.1	1.1	2.1	5.3	9.6	13.9
137.5°	4.3	2.1	2.1	1.1	1.1	1.1	1.1	1.1	4.3	7.5	10.7
140°	4.3	2.1	2.1	1.1	1.1	1.1	1.1	1.1	3.2	5.3	8.5
142.5°	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1	2.1	4.3	6.4
145°	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	4.3
147.5°	3.2	3.2	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2
150°	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
152.5°	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
155°	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
157.5°	3.2	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
160°	3.2	2.1	2.1	1.1	2.1	1.1	2.1	2.1	2.1	2.1	2.1
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1944.7	1924.4	1935.1	1931.9	1936.2	1944.7	1943.6	1941.5	1941.5	1938.3	1934.0
5°	1938.3	1919.1	1928.7	1923.4	1928.7	1936.2	1935.1	1931.9	1934.0	1928.7	1923.4
7.5°	1925.5	1908.4	1917.0	1912.7	1917.0	1924.4	1921.2	1920.2	1922.3	1913.8	1910.6
10°	1910.6	1891.4	1901.0	1895.6	1901.0	1906.3	1904.2	1899.9	1904.2	1895.6	1892.4
12.5°	1887.1	1871.1	1877.5	1875.4	1878.6	1883.9	1879.6	1876.4	1878.6	1871.1	1864.7
15°	1861.5	1845.5	1850.8	1847.6	1849.7	1856.1	1848.7	1847.6	1845.5	1838.0	1835.9
17.5°	1828.4	1813.5	1818.8	1813.5	1816.7	1814.5	1813.5	1808.1	1808.1	1799.6	1793.2
20°	1787.9	1775.1	1771.9	1767.6	1771.9	1767.6	1761.2	1756.9	1755.9	1747.3	1742.0
22.5°	1740.9	1726.0	1728.1	1716.4	1717.5	1711.1	1700.4	1696.1	1691.9	1682.3	1674.8
25°	1684.4	1669.5	1658.8	1651.3	1641.7	1640.7	1626.8	1616.1	1615.1	1603.3	1602.3
27.5°	1620.4	1603.3	1594.8	1576.7	1564.9	1555.3	1543.6	1532.9	1527.6	1514.8	1506.3
30°	1546.8	1527.6	1506.3	1493.5	1475.3	1467.9	1447.6	1434.8	1430.5	1416.6	1410.2
32.5°	1463.6	1443.3	1426.2	1401.7	1381.4	1370.8	1350.5	1337.7	1332.4	1317.4	1308.9
35°	1372.9	1350.5	1330.2	1306.8	1290.8	1272.6	1248.1	1235.3	1223.6	1218.2	1211.8
37.5°	1278.0	1253.4	1230.0	1206.5	1192.6	1171.3	1150.0	1141.4	1127.6	1122.2	1115.8
40°	1179.8	1155.3	1132.9	1110.5	1094.5	1075.3	1056.1	1052.9	1038.0	1032.6	1028.3
42.5°	1082.8	1057.2	1031.5	1015.5	1003.8	984.6	971.8	968.6	955.8	952.6	952.6
45°	995.3	963.3	941.9	928.1	918.5	902.5	891.8	889.7	879.0	876.9	876.9
47.5°	901.4	871.5	855.5	847.0	838.5	826.7	820.3	820.3	809.7	807.5	806.5
50°	813.9	786.2	774.5	765.9	764.9	756.3	751.0	748.9	748.9	741.4	742.5
52.5°	730.7	716.9	707.3	701.9	695.5	690.2	685.9	685.9	682.7	677.4	679.5
55°	653.9	637.9	639.0	634.7	631.5	628.3	629.4	623.0	621.9	617.6	620.8
57.5°	577.1	577.1	575.0	571.8	566.4	568.6	568.6	568.6	563.2	560.0	563.2
60°	512.0	515.2	509.9	513.1	511.0	512.0	509.9	509.9	506.7	505.6	506.7
62.5°	454.4	459.8	457.6	461.9	459.8	460.8	463.0	458.7	456.6	454.4	456.6
65°	403.2	409.6	408.6	411.8	412.8	413.9	415.0	412.8	410.7	408.6	407.5
67.5°	358.4	364.8	369.1	370.2	371.2	374.4	373.4	371.2	369.1	365.9	364.8
70°	317.9	326.4	331.8	333.9	338.2	336.0	336.0	335.0	332.8	329.6	328.6
72.5°	283.8	293.4	298.7	300.8	305.1	305.1	304.0	303.0	300.8	297.6	296.6
75°	253.9	262.4	269.9	274.2	277.4	277.4	276.3	275.2	273.1	271.0	269.9
77.5°	230.4	237.9	244.3	249.6	251.8	252.8	251.8	249.6	249.6	248.6	247.5
80°	206.9	215.5	221.9	227.2	230.4	230.4	229.4	230.4	228.3	227.2	226.2
82.5°	186.7	196.3	203.7	209.1	211.2	212.3	211.2	212.3	210.2	210.2	210.2
85°	168.5	178.1	186.7	190.9	194.1	195.2	195.2	195.2	194.1	194.1	194.1
87.5°	153.6	163.2	171.7	176.0	179.2	180.3	180.3	181.3	179.2	179.2	179.2
90°	139.7	149.3	157.9	162.1	165.3	167.5	167.5	168.5	167.5	166.4	166.4
92.5°	126.9	137.6	146.1	150.4	153.6	156.8	156.8	157.9	155.7	155.7	155.7
95°	116.3	126.9	134.4	139.7	142.9	145.1	146.1	146.1	145.1	145.1	145.1
97.5°	106.7	116.3	123.7	129.1	132.3	133.3	134.4	135.5	134.4	134.4	134.4
100°	97.1	106.7	114.1	118.4	122.7	123.7	124.8	125.9	125.9	124.8	124.8
102.5°	88.5	98.1	104.5	109.9	113.1	115.2	116.3	116.3	116.3	116.3	116.3
105°	80.0	89.6	96.0	101.3	104.5	106.7	107.7	108.8	108.8	107.7	107.7
107.5°	72.5	81.1	88.5	92.8	97.1	99.2	100.3	100.3	101.3	100.3	100.3
110°	65.1	74.7	81.1	85.3	89.6	91.7	92.8	93.9	93.9	93.9	93.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	59.7	67.2	73.6	77.9	82.1	84.3	85.3	86.4	87.5	86.4	86.4
115°	53.3	60.8	67.2	71.5	74.7	76.8	78.9	80.0	80.0	81.1	80.0
117.5°	48.0	54.4	60.8	65.1	68.3	71.5	72.5	73.6	74.7	73.6	73.6
120°	42.7	49.1	54.4	58.7	61.9	65.1	66.1	67.2	68.3	67.2	67.2
122.5°	38.4	43.7	49.1	53.3	56.5	58.7	60.8	60.8	61.9	61.9	61.9
125°	34.1	39.5	43.7	48.0	51.2	53.3	54.4	55.5	55.5	56.5	56.5
127.5°	29.9	34.1	39.5	42.7	45.9	48.0	49.1	50.1	50.1	51.2	51.2
130°	25.6	29.9	34.1	37.3	40.5	42.7	43.7	44.8	45.9	45.9	45.9
132.5°	22.4	26.7	29.9	33.1	35.2	37.3	39.5	40.5	40.5	40.5	40.5
135°	18.1	22.4	25.6	28.8	30.9	33.1	34.1	36.3	36.3	36.3	36.3
137.5°	14.9	19.2	22.4	24.5	26.7	28.8	29.9	30.9	32.0	32.0	32.0
140°	11.7	14.9	18.1	21.3	23.5	24.5	26.7	26.7	27.7	27.7	27.7
142.5°	8.5	11.7	13.9	17.1	19.2	21.3	22.4	23.5	23.5	23.5	23.5
145°	6.4	8.5	10.7	12.8	16.0	17.1	18.1	19.2	20.3	20.3	20.3
147.5°	4.3	6.4	7.5	9.6	11.7	13.9	14.9	16.0	17.1	17.1	17.1
150°	3.2	4.3	6.4	7.5	8.5	10.7	12.8	12.8	13.9	13.9	12.8
152.5°	2.1	3.2	4.3	5.3	6.4	7.5	9.6	9.6	10.7	10.7	10.7
155°	2.1	2.1	2.1	3.2	4.3	5.3	6.4	7.5	7.5	7.5	7.5
157.5°	2.1	2.1	2.1	2.1	2.1	3.2	4.3	5.3	5.3	5.3	5.3
160°	2.1	2.1	1.1	1.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1937.2	1939.4	1939.4	1937.2	1936.2	1940.4	1935.1	1914.8	1921.2	1923.4	1929.8
5°	1927.6	1929.8	1929.8	1929.8	1927.6	1931.9	1926.6	1906.3	1913.8	1917.0	1921.2
7.5°	1913.8	1914.8	1917.0	1915.9	1913.8	1920.2	1914.8	1894.6	1899.9	1905.2	1910.6
10°	1895.6	1895.6	1896.7	1898.8	1896.7	1902.0	1896.7	1878.6	1883.9	1887.1	1893.5
12.5°	1871.1	1873.2	1874.3	1873.2	1872.2	1876.4	1874.3	1857.2	1859.3	1865.8	1872.2
15°	1838.0	1838.0	1843.3	1841.2	1841.2	1845.5	1847.6	1828.4	1831.6	1841.2	1847.6
17.5°	1797.5	1798.5	1802.8	1804.9	1803.9	1811.3	1812.4	1797.5	1796.4	1808.1	1814.5
20°	1745.2	1747.3	1752.7	1756.9	1756.9	1765.5	1768.7	1759.1	1760.1	1772.9	1775.1
22.5°	1681.2	1681.2	1690.8	1697.2	1702.5	1707.9	1717.5	1708.9	1708.9	1726.0	1735.6
25°	1602.3	1609.7	1612.9	1625.7	1633.2	1648.1	1656.7	1657.7	1658.8	1674.8	1681.2
27.5°	1514.8	1516.9	1526.5	1541.5	1550.0	1563.9	1579.9	1583.1	1588.4	1609.7	1619.3
30°	1415.6	1422.0	1426.2	1447.6	1459.3	1477.5	1497.7	1505.2	1509.5	1538.3	1550.0
32.5°	1314.2	1316.4	1334.5	1346.2	1360.1	1379.3	1402.8	1416.6	1425.2	1455.1	1472.1
35°	1212.9	1217.2	1232.1	1247.0	1260.9	1280.1	1304.6	1323.8	1338.8	1365.4	1387.8
37.5°	1120.1	1130.8	1134.0	1148.9	1159.6	1178.8	1195.8	1223.6	1238.5	1266.2	1295.0
40°	1036.9	1040.1	1042.2	1057.2	1064.6	1082.8	1107.3	1125.4	1145.7	1166.0	1200.1
42.5°	954.7	956.9	960.1	968.6	977.1	989.9	1008.1	1026.2	1047.6	1077.4	1099.8
45°	879.0	881.1	883.3	888.6	896.1	907.8	919.5	932.3	953.7	979.3	1002.7
47.5°	808.6	812.9	812.9	813.9	819.3	828.9	837.4	853.4	865.1	879.0	905.7
50°	741.4	744.6	745.7	745.7	748.9	755.3	757.4	768.1	778.7	791.5	810.7
52.5°	678.5	678.5	677.4	681.7	681.7	685.9	687.0	693.4	700.9	714.7	723.3
55°	618.7	618.7	621.9	619.8	619.8	621.9	620.8	621.9	628.3	636.9	644.3
57.5°	561.1	560.0	563.2	561.1	560.0	562.2	564.3	560.0	561.1	569.6	569.6
60°	503.5	504.6	507.8	505.6	505.6	505.6	503.5	501.4	499.2	504.6	506.7
62.5°	457.6	454.4	457.6	454.4	456.6	455.5	453.4	449.1	450.2	448.0	445.9
65°	409.6	409.6	410.7	407.5	409.6	409.6	406.4	405.4	399.0	396.8	391.5
67.5°	368.0	368.0	369.1	367.0	367.0	368.0	364.8	361.6	355.2	352.0	344.6
70°	331.8	331.8	331.8	330.7	330.7	330.7	328.6	324.3	317.9	312.6	303.0
72.5°	298.7	299.8	298.7	298.7	301.9	298.7	295.5	291.2	285.9	275.2	266.7
75°	272.0	273.1	272.0	272.0	272.0	271.0	269.9	263.5	257.1	248.6	235.8
77.5°	248.6	248.6	249.6	248.6	248.6	247.5	244.3	239.0	231.5	224.0	209.1
80°	226.2	227.2	228.3	229.4	227.2	226.2	223.0	218.7	209.1	200.5	185.6
82.5°	210.2	209.1	210.2	211.2	209.1	208.0	204.8	199.5	192.0	180.3	165.3
85°	194.1	193.1	193.1	194.1	193.1	190.9	187.7	182.4	174.9	163.2	148.3
87.5°	178.1	179.2	180.3	179.2	178.1	176.0	172.8	167.5	158.9	149.3	133.3
90°	166.4	166.4	166.4	166.4	165.3	163.2	160.0	153.6	146.1	134.4	120.5
92.5°	155.7	155.7	155.7	155.7	154.7	151.5	148.3	142.9	134.4	122.7	109.9
95°	145.1	146.1	145.1	145.1	142.9	141.9	136.5	131.2	123.7	112.0	98.1
97.5°	133.3	134.4	133.3	133.3	132.3	130.1	126.9	120.5	113.1	102.4	89.6
100°	124.8	124.8	123.7	123.7	122.7	120.5	116.3	110.9	103.5	92.8	80.0
102.5°	115.2	116.3	115.2	115.2	113.1	110.9	107.7	102.4	94.9	84.3	72.5
105°	107.7	107.7	106.7	106.7	104.5	102.4	99.2	92.8	86.4	76.8	65.1
107.5°	100.3	100.3	99.2	99.2	97.1	94.9	90.7	85.3	78.9	69.3	58.7
110°	92.8	92.8	92.8	91.7	89.6	86.4	83.2	77.9	71.5	62.9	52.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	87.5	86.4	85.3	84.3	82.1	80.0	75.7	70.4	64.0	56.5	46.9
115°	80.0	80.0	78.9	77.9	75.7	72.5	69.3	65.1	58.7	50.1	41.6
117.5°	73.6	73.6	72.5	71.5	69.3	66.1	62.9	58.7	52.3	44.8	37.3
120°	67.2	67.2	66.1	65.1	62.9	59.7	57.6	52.3	46.9	39.5	33.1
122.5°	61.9	60.8	60.8	58.7	57.6	54.4	51.2	46.9	41.6	35.2	28.8
125°	55.5	55.5	54.4	53.3	52.3	49.1	45.9	41.6	36.3	30.9	25.6
127.5°	50.1	50.1	49.1	48.0	46.9	43.7	40.5	37.3	32.0	26.7	21.3
130°	44.8	44.8	43.7	42.7	41.6	38.4	36.3	32.0	27.7	23.5	18.1
132.5°	40.5	40.5	39.5	38.4	36.3	34.1	32.0	27.7	24.5	20.3	16.0
135°	36.3	35.2	35.2	34.1	32.0	29.9	27.7	24.5	20.3	17.1	12.8
137.5°	32.0	30.9	29.9	28.8	27.7	25.6	23.5	21.3	18.1	13.9	10.7
140°	27.7	26.7	26.7	25.6	23.5	22.4	20.3	17.1	14.9	11.7	8.5
142.5°	23.5	23.5	22.4	21.3	20.3	19.2	17.1	14.9	11.7	9.6	6.4
145°	20.3	19.2	19.2	18.1	17.1	14.9	13.9	11.7	9.6	7.5	5.3
147.5°	16.0	16.0	16.0	14.9	13.9	12.8	11.7	9.6	7.5	5.3	3.2
150°	12.8	12.8	12.8	11.7	10.7	9.6	8.5	7.5	5.3	3.2	2.1
152.5°	10.7	10.7	9.6	9.6	8.5	7.5	6.4	5.3	3.2	2.1	2.1
155°	7.5	7.5	7.5	6.4	6.4	5.3	4.3	3.2	2.1	2.1	2.1
157.5°	5.3	5.3	5.3	4.3	4.3	3.2	3.2	2.1	2.1	2.1	2.1
160°	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1926.6	1925.5	1934.0	1934.0	1924.4	1939.4	1955.4
5°	1920.2	1919.1	1927.6	1927.6	1919.1	1934.0	1951.1
7.5°	1907.4	1908.4	1917.0	1919.1	1908.4	1922.3	1940.4
10°	1893.5	1892.4	1902.0	1904.2	1895.6	1908.4	1925.5
12.5°	1871.1	1871.1	1880.7	1883.9	1875.4	1890.3	1906.3
15°	1847.6	1847.6	1854.0	1859.3	1851.9	1865.8	1881.8
17.5°	1817.7	1816.7	1823.1	1829.5	1822.0	1836.9	1854.0
20°	1779.3	1779.3	1786.8	1794.3	1788.9	1802.8	1822.0
22.5°	1738.8	1734.5	1747.3	1752.7	1749.5	1763.3	1782.5
25°	1687.6	1686.5	1699.3	1706.8	1702.5	1717.5	1734.5
27.5°	1632.1	1631.1	1643.9	1653.5	1651.3	1665.2	1684.4
30°	1564.9	1570.3	1582.0	1598.0	1592.7	1607.6	1627.9
32.5°	1494.5	1499.9	1513.7	1530.8	1531.9	1543.6	1563.9
35°	1410.2	1424.1	1433.7	1456.1	1460.4	1472.1	1493.5
37.5°	1321.7	1337.7	1358.0	1375.0	1383.6	1393.2	1417.7
40°	1222.5	1246.0	1268.4	1288.6	1299.3	1308.9	1332.4
42.5°	1132.9	1151.0	1172.4	1192.6	1211.8	1220.4	1244.9
45°	1031.5	1052.9	1072.1	1096.6	1115.8	1125.4	1150.0
47.5°	932.3	953.7	979.3	996.3	1016.6	1026.2	1049.7
50°	837.4	856.6	877.9	898.2	915.3	923.8	944.1
52.5°	743.5	763.8	784.1	796.9	815.0	821.4	838.5
55°	660.3	674.2	692.3	699.8	717.9	722.2	733.9
57.5°	580.3	589.9	596.3	609.1	621.9	631.5	645.4
60°	507.8	512.0	516.3	523.8	534.4	537.6	543.0
62.5°	442.7	441.6	450.2	452.3	453.4	464.0	458.7
65°	385.1	386.2	378.7	375.5	379.8	383.0	380.8
67.5°	337.1	330.7	324.3	316.8	310.4	313.6	310.4
70°	290.2	284.8	274.2	263.5	259.2	252.8	249.6
72.5°	252.8	240.0	229.4	215.5	208.0	200.5	195.2
75°	224.0	205.9	190.9	176.0	165.3	154.7	152.5
77.5°	194.1	177.1	160.0	144.0	128.0	116.3	112.0
80°	170.7	154.7	134.4	115.2	98.1	83.2	77.9
82.5°	149.3	132.3	112.0	91.7	72.5	56.5	50.1
85°	131.2	113.1	92.8	72.5	53.3	36.3	27.7
87.5°	117.3	97.1	76.8	57.6	37.3	20.3	10.7
90°	104.5	85.3	66.1	45.9	26.7	10.7	0.0
92.5°	92.8	74.7	55.5	37.3	20.3	6.4	1.1
95°	82.1	66.1	46.9	29.9	14.9	4.3	1.1
97.5°	73.6	57.6	40.5	24.5	11.7	3.2	1.1
100°	66.1	50.1	35.2	20.3	9.6	2.1	1.1
102.5°	58.7	44.8	29.9	17.1	7.5	1.1	1.1
105°	52.3	39.5	25.6	14.9	6.4	1.1	1.1
107.5°	46.9	35.2	22.4	12.8	4.3	1.1	1.1
110°	41.6	29.9	19.2	10.7	3.2	1.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	37.3	26.7	17.1	8.5	2.1	1.1	1.1
115°	33.1	23.5	14.9	7.5	2.1	1.1	1.1
117.5°	28.8	20.3	12.8	5.3	1.1	1.1	1.1
120°	25.6	18.1	10.7	4.3	1.1	1.1	1.1
122.5°	22.4	14.9	8.5	3.2	1.1	1.1	1.1
125°	19.2	12.8	7.5	2.1	1.1	1.1	1.1
127.5°	16.0	10.7	5.3	2.1	1.1	1.1	1.1
130°	13.9	8.5	4.3	1.1	1.1	1.1	1.1
132.5°	11.7	6.4	3.2	1.1	1.1	1.1	1.1
135°	9.6	5.3	2.1	1.1	1.1	1.1	1.1
137.5°	7.5	4.3	2.1	1.1	1.1	1.1	1.1
140°	5.3	3.2	1.1	1.1	1.1	1.1	1.1
142.5°	4.3	2.1	1.1	1.1	1.1	1.1	1.1
145°	3.2	2.1	1.1	1.1	1.1	1.1	1.1
147.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1
150°	2.1	2.1	1.1	1.1	2.1	1.1	1.1
152.5°	2.1	1.1	1.1	1.1	2.1	1.1	1.1
155°	2.1	2.1	2.1	2.1	2.1	2.1	1.1
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)