

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P933853

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933853
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

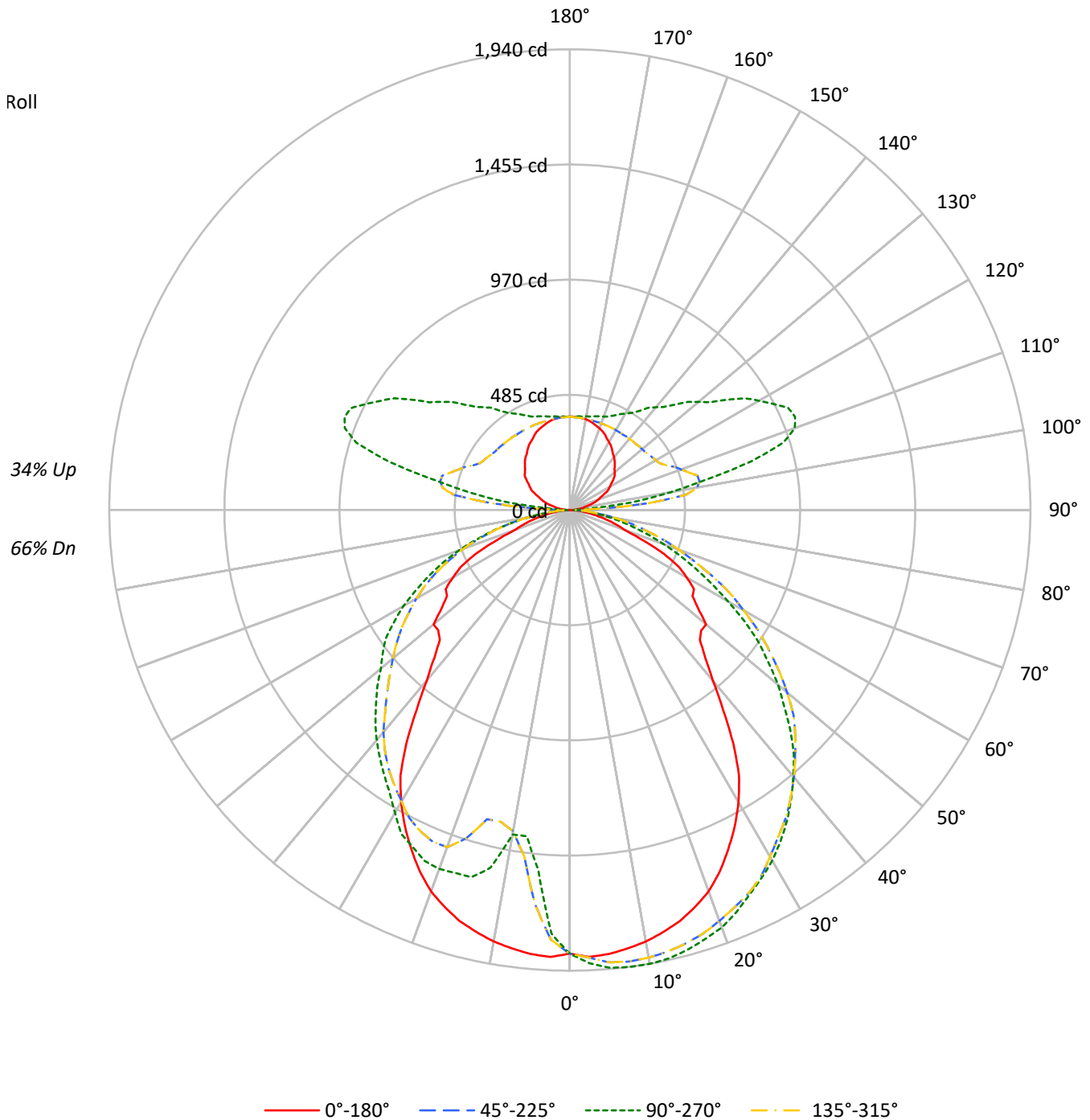
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7393.5 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
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: 24 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P933853

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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5823	5832	5823	4586
10°	5786	5745	5786	4107
15°	5725	5620	5725	4693
20°	5608	5473	5608	4703
25°	5365	5258	5365	4603
30°	5050	5079	5050	4384
35°	4504	4853	4504	4144
40°	3755	4587	3755	3962
45°	3358	4276	3358	3753
50°	3570	3905	3570	3543
55°	3362	3506	3362	3422
60°	3470	2977	3470	3135
65°	3152	2461	3152	2751
70°	2187	1962	2187	2306
75°	1925	1450	1925	1736
80°	1563	959	1563	1044
85°	917	508	917	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	2.3
10°-20°	478.7	6.5
20°-30°	740.0	10.0
30°-40°	883.4	11.9
40°-50°	888.6	12.0
50°-60°	773.2	10.5
60°-70°	548.2	7.4
70°-80°	290.0	3.9
80°-90°	73.7	1.0
90°-100°	191.7	2.6
100°-110°	503.9	6.8
110°-120°	522.5	7.1
120°-130°	419.1	5.7
130°-140°	328.9	4.4
140°-150°	252.4	3.4
150°-160°	181.8	2.5
160°-170°	111.2	1.5
170°-180°	37.6	0.5
0°-30°	1387.3	18.8
0°-40°	2270.7	30.7
0°-60°	3932.5	53.2
0°-90°	4844.5	65.5
90°-120°	1218.1	16.5
90°-150°	2218.5	30.0
90°-180°	2549.0	34.5
0°-180°	7393.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	1877	1935	1877	1522	1877	178
15°	1792	1917	1792	1601	1792	504
25°	1578	1788	1578	1566	1578	725
35°	1200	1596	1200	1362	1200	742
45°	774	1315	774	1154	774	620
55°	631	970	631	947	631	580
65°	438	585	438	654	438	419
75°	166	278	166	332	166	175
85°	28	71	28	60	28	38
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	789	91	789	91	96
115°	161	1016	161	1016	161	159
125°	224	809	224	809	224	199
135°	267	628	267	628	267	207
145°	310	509	310	509	310	194
155°	350	439	350	439	350	161
165°	378	408	378	408	378	107
175°	393	396	393	396	393	37
180°	393	393	393	393	393	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1883.7	1883.7	1894.3	1897.8	1897.8	1892.6	1887.3	1892.6	1908.5	1913.7	1912.0
5°	1876.7	1890.8	1910.2	1913.7	1917.3	1915.6	1912.0	1915.6	1933.2	1936.7	1938.5
7.5°	1862.5	1889.0	1913.7	1919.1	1924.4	1919.1	1917.3	1920.8	1938.5	1942.0	1942.0
10°	1844.9	1881.9	1910.2	1913.7	1919.1	1913.7	1913.7	1920.8	1938.5	1942.0	1943.9
12.5°	1820.1	1871.4	1897.8	1901.4	1908.5	1906.7	1904.9	1912.0	1929.7	1933.2	1933.2
15°	1791.8	1851.9	1876.7	1880.2	1892.6	1889.0	1889.0	1896.1	1915.6	1920.8	1919.1
17.5°	1753.0	1827.2	1855.5	1860.8	1869.6	1867.8	1869.6	1876.7	1894.3	1897.8	1899.7
20°	1708.8	1793.6	1827.2	1832.5	1841.4	1841.4	1841.4	1850.1	1867.8	1874.9	1874.9
22.5°	1648.7	1758.3	1793.6	1797.2	1807.7	1807.7	1811.3	1823.6	1839.5	1841.4	1841.4
25°	1578.0	1719.4	1749.4	1760.0	1770.7	1775.9	1781.3	1788.3	1793.6	1791.8	1793.6
27.5°	1503.8	1669.9	1708.8	1715.8	1730.0	1735.3	1742.4	1744.1	1745.9	1751.2	1747.6
30°	1420.7	1601.0	1659.3	1666.4	1689.3	1692.9	1685.8	1689.3	1698.2	1701.7	1705.2
32.5°	1327.1	1498.5	1608.1	1624.0	1645.1	1634.6	1632.8	1638.1	1652.3	1652.3	1655.8
35°	1199.8	1419.0	1560.4	1574.5	1590.4	1578.0	1585.1	1586.8	1595.7	1601.0	1599.2
37.5°	1060.3	1350.0	1510.9	1521.5	1533.9	1518.0	1528.5	1533.9	1540.9	1537.4	1537.4
40°	936.5	1242.3	1452.5	1459.6	1470.2	1457.9	1468.4	1472.0	1475.5	1472.0	1470.2
42.5°	844.7	1123.9	1390.7	1399.6	1392.5	1401.3	1404.8	1412.0	1406.6	1399.6	1399.6
45°	774.0	1092.1	1323.6	1334.1	1323.6	1337.7	1343.0	1343.0	1327.1	1323.6	1321.8
47.5°	751.0	1028.5	1256.4	1256.4	1251.1	1268.8	1277.6	1265.3	1249.4	1244.0	1244.0
50°	749.3	957.8	1164.5	1157.4	1182.2	1203.4	1194.6	1182.2	1169.8	1150.4	1150.4
52.5°	680.3	871.2	1046.1	1072.7	1111.5	1123.9	1109.7	1097.3	1076.2	1067.3	1060.3
55°	630.9	781.1	938.3	991.3	1032.0	1047.9	1021.4	1009.0	977.2	971.9	968.4
57.5°	620.3	650.3	839.4	906.5	956.0	954.3	938.3	915.4	888.8	883.6	881.8
60°	569.1	470.1	733.4	812.9	864.1	858.8	844.7	823.5	798.7	795.2	791.7
62.5°	516.0	341.0	613.1	703.3	775.7	774.0	761.7	729.8	712.1	703.3	696.2
65°	438.3	286.2	436.5	584.9	689.2	692.7	666.2	643.3	623.8	613.1	611.4
67.5°	334.0	233.3	295.1	487.7	606.1	602.6	569.1	558.4	533.7	528.4	517.8
70°	247.4	155.5	205.0	395.9	524.9	516.0	489.5	477.1	454.2	441.8	434.7
72.5°	205.0	125.4	150.2	307.5	441.8	431.2	408.2	394.1	374.6	364.1	356.9
75°	166.1	132.5	114.9	227.9	358.7	351.7	330.4	316.3	300.4	286.2	288.0
77.5°	121.9	123.7	91.9	167.8	284.5	273.9	261.6	243.9	236.8	222.6	222.6
80°	91.9	97.2	68.9	114.9	205.0	205.0	194.4	182.0	169.6	162.6	162.6
82.5°	61.8	61.8	51.2	72.5	139.6	134.3	127.3	123.7	116.6	113.1	113.1
85°	28.3	35.3	31.8	44.2	76.0	79.5	79.5	76.0	74.2	70.7	72.5
87.5°	8.9	15.9	19.4	24.8	38.9	40.7	42.4	42.4	42.4	44.2	44.2
90°	2.6	4.7	6.9	7.4	11.6	17.2	20.0	17.8	13.4	10.0	10.0
92.5°	10.5	28.5	46.5	50.9	71.6	99.2	112.9	99.0	71.1	50.2	48.1
95°	25.3	58.1	91.0	99.2	176.2	278.9	330.2	294.6	223.5	170.2	164.2
97.5°	43.8	72.8	101.8	109.0	237.3	408.5	494.0	471.6	426.7	393.0	381.4
100°	58.1	84.3	110.6	117.2	259.6	449.5	544.5	546.1	549.4	551.8	538.1
102.5°	70.2	94.7	119.2	125.3	269.8	462.4	558.7	587.3	644.5	687.4	675.7
105°	90.8	111.5	132.3	137.5	277.4	463.8	557.1	621.2	749.5	845.8	839.5
107.5°	111.9	131.2	150.6	155.5	278.8	443.2	525.4	614.9	793.9	928.2	929.7
110°	126.1	143.6	161.1	165.5	276.7	424.9	499.1	599.1	799.2	949.3	955.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.8	173.5	177.6	276.8	408.9	475.1	577.5	782.2	935.8	945.9
115°	161.3	176.6	192.0	195.9	279.3	390.6	446.3	544.9	742.2	890.2	904.1
117.5°	182.1	196.0	210.0	213.5	284.5	379.2	426.5	515.6	693.6	827.1	842.6
120°	194.2	207.4	220.5	223.8	288.7	375.2	418.5	499.8	662.6	784.6	799.7
122.5°	206.1	219.4	232.6	235.9	294.8	373.2	412.5	485.7	632.2	742.1	756.9
125°	224.3	236.4	248.6	251.5	303.0	371.6	405.9	468.0	592.5	685.9	699.6
127.5°	239.1	251.3	263.5	266.6	311.2	370.6	400.3	453.7	560.6	640.7	652.3
130°	247.0	260.2	273.3	276.6	317.2	371.2	398.2	445.8	540.9	612.3	623.0
132.5°	255.2	268.3	281.5	284.7	322.0	371.6	396.4	439.0	524.2	588.0	597.6
135°	267.4	279.3	291.2	294.2	327.3	371.3	393.2	428.9	500.2	553.7	561.9
137.5°	279.7	291.6	303.4	306.4	335.2	373.5	392.7	422.8	483.1	528.3	535.1
140°	290.0	300.9	311.9	314.6	340.0	373.9	390.8	416.8	468.9	508.0	514.3
142.5°	297.9	308.0	318.1	320.7	344.0	375.2	390.8	413.7	459.4	493.8	499.2
145°	310.1	318.9	327.7	329.9	349.3	375.2	388.2	406.9	444.3	472.4	476.5
147.5°	322.2	330.8	339.4	341.5	357.0	377.8	388.2	403.0	432.4	454.4	457.9
150°	330.2	337.9	345.6	347.5	361.1	379.2	388.2	400.7	425.5	444.2	446.9
152.5°	338.3	344.2	350.0	351.5	363.7	380.0	388.2	398.8	420.1	436.0	438.1
155°	350.4	354.7	359.1	360.2	369.5	382.0	388.2	396.6	413.6	426.2	427.6
157.5°	359.4	363.6	367.9	369.0	375.4	383.9	388.2	394.8	407.9	417.7	418.7
160°	365.5	368.8	372.1	372.9	378.0	384.8	388.2	393.8	405.1	413.5	414.0
162.5°	371.6	374.1	376.5	377.1	380.8	385.7	388.2	393.0	402.4	409.6	410.1
165°	378.2	380.4	382.7	383.2	384.9	387.1	388.2	391.6	398.4	403.5	404.0
167.5°	384.3	385.3	386.4	386.6	388.0	389.9	390.8	393.0	397.5	400.9	401.1
170°	388.2	389.3	390.3	390.6	390.7	390.8	390.8	393.0	397.5	400.9	400.9
172.5°	390.3	390.6	390.8	390.8	390.8	390.8	390.8	392.6	396.1	398.7	398.6
175°	393.2	393.2	393.2	393.2	392.4	391.4	390.8	392.0	394.2	395.9	395.9
177.5°	393.2	393.2	393.2	393.2	392.6	391.8	391.4	392.2	394.0	395.3	395.1
180°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1915.6	1910.2	1915.6	1912.0	1913.7	1908.5	1892.6	1887.3	1892.6	1897.8	1897.8
5°	1938.5	1935.0	1938.5	1938.5	1936.7	1933.2	1915.6	1912.0	1915.6	1917.3	1913.7
7.5°	1945.6	1940.3	1945.6	1942.0	1942.0	1938.5	1920.8	1917.3	1919.1	1924.4	1919.1
10°	1945.6	1940.3	1945.6	1943.9	1942.0	1938.5	1920.8	1913.7	1913.7	1919.1	1913.7
12.5°	1936.7	1933.2	1936.7	1933.2	1933.2	1929.7	1912.0	1904.9	1906.7	1908.5	1901.4
15°	1922.6	1917.3	1922.6	1919.1	1920.8	1915.6	1896.1	1889.0	1889.0	1892.6	1880.2
17.5°	1901.4	1894.3	1901.4	1899.7	1897.8	1894.3	1876.7	1869.6	1867.8	1869.6	1860.8
20°	1876.7	1871.4	1876.7	1874.9	1874.9	1867.8	1850.1	1841.4	1841.4	1841.4	1832.5
22.5°	1837.8	1832.5	1837.8	1841.4	1841.4	1839.5	1823.6	1811.3	1807.7	1807.7	1797.2
25°	1793.6	1788.3	1793.6	1793.6	1791.8	1793.6	1788.3	1781.3	1775.9	1770.7	1760.0
27.5°	1751.2	1747.6	1751.2	1747.6	1751.2	1745.9	1744.1	1742.4	1735.3	1730.0	1715.8
30°	1708.8	1705.2	1708.8	1705.2	1701.7	1698.2	1689.3	1685.8	1692.9	1689.3	1666.4
32.5°	1655.8	1652.3	1655.8	1655.8	1652.3	1652.3	1638.1	1632.8	1634.6	1645.1	1624.0
35°	1601.0	1595.7	1601.0	1599.2	1601.0	1595.7	1586.8	1585.1	1578.0	1590.4	1574.5
37.5°	1537.4	1532.1	1537.4	1537.4	1537.4	1540.9	1533.9	1528.5	1518.0	1533.9	1521.5
40°	1472.0	1464.9	1472.0	1470.2	1472.0	1475.5	1472.0	1468.4	1457.9	1470.2	1459.6
42.5°	1397.8	1396.0	1397.8	1399.6	1399.6	1406.6	1412.0	1404.8	1401.3	1392.5	1399.6
45°	1318.2	1314.7	1318.2	1321.8	1323.6	1327.1	1343.0	1343.0	1337.7	1323.6	1334.1
47.5°	1233.4	1224.6	1233.4	1244.0	1244.0	1249.4	1265.3	1277.6	1268.8	1251.1	1256.4
50°	1143.3	1145.0	1143.3	1150.4	1150.4	1169.8	1182.2	1194.6	1203.4	1182.2	1157.4
52.5°	1054.9	1053.2	1054.9	1060.3	1067.3	1076.2	1097.3	1109.7	1123.9	1111.5	1072.7
55°	966.6	970.2	966.6	968.4	971.9	977.2	1009.0	1021.4	1047.9	1032.0	991.3
57.5°	878.2	872.9	878.2	881.8	883.6	888.8	915.4	938.3	954.3	956.0	906.5
60°	775.7	768.7	775.7	791.7	795.2	798.7	823.5	844.7	858.8	864.1	812.9
62.5°	685.6	673.3	685.6	696.2	703.3	712.1	729.8	761.7	774.0	775.7	703.3
65°	590.2	584.9	590.2	611.4	613.1	623.8	643.3	666.2	692.7	689.2	584.9
67.5°	503.6	503.6	503.6	517.8	528.4	533.7	558.4	569.1	602.6	606.1	487.7
70°	424.1	422.4	424.1	434.7	441.8	454.2	477.1	489.5	516.0	524.9	395.9
72.5°	348.2	346.3	348.2	356.9	364.1	374.6	394.1	408.2	431.2	441.8	307.5
75°	281.0	277.5	281.0	288.0	286.2	300.4	316.3	330.4	351.7	358.7	227.9
77.5°	215.6	215.6	215.6	222.6	222.6	236.8	243.9	261.6	273.9	284.5	167.8
80°	160.8	159.1	160.8	162.6	162.6	169.6	182.0	194.4	205.0	205.0	114.9
82.5°	113.1	109.5	113.1	113.1	113.1	116.6	123.7	127.3	134.3	139.6	72.5
85°	70.7	70.7	70.7	72.5	70.7	74.2	76.0	79.5	79.5	76.0	44.2
87.5°	45.9	44.2	45.9	44.2	44.2	42.4	42.4	42.4	40.7	38.9	24.8
90°	10.0	10.0	10.0	10.0	10.0	13.4	17.8	20.0	17.2	11.6	7.4
92.5°	40.2	32.2	40.2	48.1	50.2	71.1	99.0	112.9	99.2	71.6	50.9
95°	140.0	115.8	140.0	164.2	170.2	223.5	294.6	330.2	278.9	176.2	99.2
97.5°	335.5	289.5	335.5	381.4	393.0	426.7	471.6	494.0	408.5	237.3	109.0
100°	483.4	428.6	483.4	538.1	551.8	549.4	546.1	544.5	449.5	259.6	117.2
102.5°	628.8	581.9	628.8	675.7	687.4	644.5	587.3	558.7	462.4	269.8	125.3
105°	814.3	789.1	814.3	839.5	845.8	749.5	621.2	557.1	463.8	277.4	137.5
107.5°	935.8	941.9	935.8	929.7	928.2	793.9	614.9	525.4	443.2	278.8	155.5
110°	982.1	1008.4	982.1	955.9	949.3	799.2	599.1	499.1	424.9	276.7	165.5



TEST NUMBER: P933853

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	986.2	1026.6	986.2	945.9	935.8	782.2	577.5	475.1	408.9	276.8	177.6
115°	960.1	1016.0	960.1	904.1	890.2	742.2	544.9	446.3	390.6	279.3	195.9
117.5°	904.7	966.7	904.7	842.6	827.1	693.6	515.6	426.5	379.2	284.5	213.5
120°	859.9	920.2	859.9	799.7	784.6	662.6	499.8	418.5	375.2	288.7	223.8
122.5°	816.5	875.9	816.5	756.9	742.1	632.2	485.7	412.5	373.2	294.8	235.9
125°	754.3	809.1	754.3	699.6	685.9	592.5	468.0	405.9	371.6	303.0	251.5
127.5°	698.5	744.7	698.5	652.3	640.7	560.6	453.7	400.3	370.6	311.2	266.6
130°	665.7	708.3	665.7	623.0	612.3	540.9	445.8	398.2	371.2	317.2	276.6
132.5°	635.8	674.0	635.8	597.6	588.0	524.2	439.0	396.4	371.6	322.0	284.7
135°	594.9	627.8	594.9	561.9	553.7	500.2	428.9	393.2	371.3	327.3	294.2
137.5°	562.0	589.1	562.0	535.1	528.3	483.1	422.8	392.7	373.5	335.2	306.4
140°	539.5	564.7	539.5	514.3	508.0	468.9	416.8	390.8	373.9	340.0	314.6
142.5°	520.9	542.6	520.9	499.2	493.8	459.4	413.7	390.8	375.2	344.0	320.7
145°	492.9	509.3	492.9	476.5	472.4	444.3	406.9	388.2	375.2	349.3	329.9
147.5°	471.5	485.1	471.5	457.9	454.4	432.4	403.0	388.2	377.8	357.0	341.5
150°	457.9	468.9	457.9	446.9	444.2	425.5	400.7	388.2	379.2	361.1	347.5
152.5°	446.4	454.7	446.4	438.1	436.0	420.1	398.8	388.2	380.0	363.7	351.5
155°	433.1	438.6	433.1	427.6	426.2	413.6	396.6	388.2	382.0	369.5	360.2
157.5°	422.6	426.5	422.6	418.7	417.7	407.9	394.8	388.2	383.9	375.4	369.0
160°	416.3	418.5	416.3	414.0	413.5	405.1	393.8	388.2	384.8	378.0	372.9
162.5°	412.2	414.3	412.2	410.1	409.6	402.4	393.0	388.2	385.7	380.8	377.1
165°	406.3	408.5	406.3	404.0	403.5	398.4	391.6	388.2	387.1	384.9	383.2
167.5°	402.0	403.0	402.0	401.1	400.9	397.5	393.0	390.8	389.9	388.0	386.6
170°	400.9	400.9	400.9	400.9	400.9	397.5	393.0	390.8	390.8	390.7	390.6
172.5°	397.7	396.9	397.7	398.6	398.7	396.1	392.6	390.8	390.8	390.8	390.8
175°	395.9	395.9	395.9	395.9	395.9	394.2	392.0	390.8	391.4	392.4	393.2
177.5°	394.2	393.2	394.2	395.1	395.3	394.0	392.2	391.4	391.8	392.6	393.2
180°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2



TEST NUMBER: P933853

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1894.3	1883.7	1883.7	1866.0	1859.0	1853.7	1844.9	1818.3	1811.3	1804.2	1814.8
5°	1910.2	1890.8	1876.7	1844.9	1818.3	1807.7	1774.2	1710.6	1668.2	1636.4	1618.7
7.5°	1913.7	1889.0	1862.5	1813.1	1749.4	1721.1	1618.7	1502.1	1470.2	1442.0	1424.3
10°	1910.2	1881.9	1844.9	1770.7	1620.5	1570.9	1468.4	1392.5	1373.0	1367.8	1373.0
12.5°	1897.8	1871.4	1820.1	1696.4	1486.2	1452.5	1392.5	1348.3	1344.8	1353.6	1401.3
15°	1876.7	1851.9	1791.8	1597.5	1412.0	1387.2	1344.8	1328.9	1348.3	1410.1	1553.3
17.5°	1855.5	1827.2	1753.0	1500.3	1355.4	1337.7	1307.6	1339.5	1449.0	1532.1	1579.8
20°	1827.2	1793.6	1708.8	1429.6	1314.7	1298.8	1284.7	1427.9	1510.9	1540.9	1567.4
22.5°	1793.6	1758.3	1648.7	1380.1	1272.3	1259.9	1268.8	1477.3	1510.9	1532.1	1555.0
25°	1749.4	1719.4	1578.0	1341.3	1238.8	1224.6	1258.2	1472.0	1491.4	1496.7	1542.6
27.5°	1708.8	1669.9	1503.8	1305.9	1198.1	1192.8	1267.0	1449.0	1463.2	1468.4	1518.0
30°	1659.3	1601.0	1420.7	1268.8	1155.7	1153.9	1268.8	1420.7	1417.2	1431.4	1480.8
32.5°	1608.1	1498.5	1327.1	1222.9	1115.0	1113.2	1256.4	1378.3	1374.8	1394.2	1431.4
35°	1560.4	1419.0	1199.8	1169.8	1063.8	1065.6	1226.4	1328.9	1330.6	1348.3	1371.3
37.5°	1510.9	1350.0	1060.3	1111.5	1014.3	1014.3	1185.7	1282.9	1279.4	1284.7	1316.5
40°	1452.5	1242.3	936.5	1035.5	968.4	963.1	1136.3	1233.4	1221.1	1219.3	1263.4
42.5°	1390.7	1123.9	844.7	934.8	915.4	908.3	1076.2	1173.3	1150.4	1155.7	1212.2
45°	1323.6	1092.1	774.0	789.9	860.6	855.3	1010.7	1104.5	1088.6	1102.7	1161.0
47.5°	1256.4	1028.5	751.0	655.6	802.2	800.5	938.3	1037.3	1028.5	1042.6	1104.5
50°	1164.5	957.8	749.3	561.9	736.9	743.9	851.8	971.9	971.9	984.3	1049.7
52.5°	1046.1	871.2	680.3	508.9	660.9	682.1	775.7	915.4	918.9	931.3	989.6
55°	938.3	781.1	630.9	468.3	570.8	616.7	701.5	857.0	864.1	876.5	929.5
57.5°	839.4	650.3	620.3	420.5	487.7	531.9	636.2	800.5	804.0	814.6	865.9
60°	733.4	470.1	569.1	369.3	415.3	448.8	576.1	733.4	745.7	752.8	797.0
62.5°	613.1	341.0	516.0	334.0	380.0	387.0	526.6	669.7	685.6	691.0	717.5
65°	436.5	286.2	438.3	304.0	342.8	344.6	473.6	604.4	618.5	627.3	646.8
67.5°	295.1	233.3	334.0	275.7	314.5	316.3	422.4	528.4	547.8	554.9	567.2
70°	205.0	155.5	247.4	245.7	282.7	286.2	367.6	459.4	477.1	482.5	489.5
72.5°	150.2	125.4	205.0	220.9	249.2	252.7	311.0	381.7	399.4	404.6	408.2
75°	114.9	132.5	166.1	192.6	212.0	213.8	254.4	311.0	323.4	326.9	328.7
77.5°	91.9	123.7	121.9	155.5	173.2	169.6	199.7	240.3	250.9	250.9	250.9
80°	68.9	97.2	91.9	111.4	127.3	123.7	143.2	171.4	175.0	178.5	176.7
82.5°	51.2	61.8	61.8	70.7	84.8	81.3	95.4	111.4	111.4	111.4	114.9
85°	31.8	35.3	28.3	37.2	47.7	45.9	53.0	60.1	61.8	61.8	58.3
87.5°	19.4	15.9	8.9	14.1	21.2	21.2	24.8	26.5	24.8	24.8	24.8
90°	6.9	4.7	2.6	4.7	6.9	7.4	11.6	17.2	20.0	17.8	13.4
92.5°	46.5	28.5	10.5	28.5	46.5	50.9	71.6	99.2	112.9	99.0	71.1
95°	91.0	58.1	25.3	58.1	91.0	99.2	176.2	278.9	330.2	294.6	223.5
97.5°	101.8	72.8	43.8	72.8	101.8	109.0	237.3	408.5	494.0	471.6	426.7
100°	110.6	84.3	58.1	84.3	110.6	117.2	259.6	449.5	544.5	546.1	549.4
102.5°	119.2	94.7	70.2	94.7	119.2	125.3	269.8	462.4	558.7	587.3	644.5
105°	132.3	111.5	90.8	111.5	132.3	137.5	277.4	463.8	557.1	621.2	749.5
107.5°	150.6	131.2	111.9	131.2	150.6	155.5	278.8	443.2	525.4	614.9	793.9
110°	161.1	143.6	126.1	143.6	161.1	165.5	276.7	424.9	499.1	599.1	799.2



TEST NUMBER: P933853

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.5	156.8	140.2	156.8	173.5	177.6	276.8	408.9	475.1	577.5	782.2
115°	192.0	176.6	161.3	176.6	192.0	195.9	279.3	390.6	446.3	544.9	742.2
117.5°	210.0	196.0	182.1	196.0	210.0	213.5	284.5	379.2	426.5	515.6	693.6
120°	220.5	207.4	194.2	207.4	220.5	223.8	288.7	375.2	418.5	499.8	662.6
122.5°	232.6	219.4	206.1	219.4	232.6	235.9	294.8	373.2	412.5	485.7	632.2
125°	248.6	236.4	224.3	236.4	248.6	251.5	303.0	371.6	405.9	468.0	592.5
127.5°	263.5	251.3	239.1	251.3	263.5	266.6	311.2	370.6	400.3	453.7	560.6
130°	273.3	260.2	247.0	260.2	273.3	276.6	317.2	371.2	398.2	445.8	540.9
132.5°	281.5	268.3	255.2	268.3	281.5	284.7	322.0	371.6	396.4	439.0	524.2
135°	291.2	279.3	267.4	279.3	291.2	294.2	327.3	371.3	393.2	428.9	500.2
137.5°	303.4	291.6	279.7	291.6	303.4	306.4	335.2	373.5	392.7	422.8	483.1
140°	311.9	300.9	290.0	300.9	311.9	314.6	340.0	373.9	390.8	416.8	468.9
142.5°	318.1	308.0	297.9	308.0	318.1	320.7	344.0	375.2	390.8	413.7	459.4
145°	327.7	318.9	310.1	318.9	327.7	329.9	349.3	375.2	388.2	406.9	444.3
147.5°	339.4	330.8	322.2	330.8	339.4	341.5	357.0	377.8	388.2	403.0	432.4
150°	345.6	337.9	330.2	337.9	345.6	347.5	361.1	379.2	388.2	400.7	425.5
152.5°	350.0	344.2	338.3	344.2	350.0	351.5	363.7	380.0	388.2	398.8	420.1
155°	359.1	354.7	350.4	354.7	359.1	360.2	369.5	382.0	388.2	396.6	413.6
157.5°	367.9	363.6	359.4	363.6	367.9	369.0	375.4	383.9	388.2	394.8	407.9
160°	372.1	368.8	365.5	368.8	372.1	372.9	378.0	384.8	388.2	393.8	405.1
162.5°	376.5	374.1	371.6	374.1	376.5	377.1	380.8	385.7	388.2	393.0	402.4
165°	382.7	380.4	378.2	380.4	382.7	383.2	384.9	387.1	388.2	391.6	398.4
167.5°	386.4	385.3	384.3	385.3	386.4	386.6	388.0	389.9	390.8	393.0	397.5
170°	390.3	389.3	388.2	389.3	390.3	390.6	390.7	390.8	390.8	393.0	397.5
172.5°	390.8	390.6	390.3	390.6	390.8	390.8	390.8	390.8	390.8	392.6	396.1
175°	393.2	393.2	393.2	393.2	393.2	393.2	392.4	391.4	390.8	392.0	394.2
177.5°	393.2	393.2	393.2	393.2	393.2	393.2	392.6	391.8	391.4	392.2	394.0
180°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2



TEST NUMBER: P933853
 CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1802.4	1797.2	1804.2	1784.8	1804.2	1797.2	1802.4	1814.8	1804.2	1811.3	1818.3
5°	1581.6	1572.7	1544.5	1521.5	1544.5	1572.7	1581.6	1618.7	1636.4	1668.2	1710.6
7.5°	1413.7	1406.6	1399.6	1385.4	1399.6	1406.6	1413.7	1424.3	1442.0	1470.2	1502.1
10°	1376.6	1378.3	1388.9	1387.2	1388.9	1378.3	1376.6	1373.0	1367.8	1373.0	1392.5
12.5°	1472.0	1487.9	1546.2	1542.6	1546.2	1487.9	1472.0	1401.3	1353.6	1344.8	1348.3
15°	1581.6	1586.8	1599.2	1601.0	1599.2	1586.8	1581.6	1553.3	1410.1	1348.3	1328.9
17.5°	1592.2	1593.9	1602.7	1602.7	1602.7	1593.9	1592.2	1579.8	1532.1	1449.0	1339.5
20°	1583.3	1586.8	1604.6	1608.1	1604.6	1586.8	1583.3	1567.4	1540.9	1510.9	1427.9
22.5°	1579.8	1586.8	1601.0	1599.2	1601.0	1586.8	1579.8	1555.0	1532.1	1510.9	1477.3
25°	1562.1	1562.1	1563.9	1565.7	1563.9	1562.1	1562.1	1542.6	1496.7	1491.4	1472.0
27.5°	1525.0	1528.5	1539.1	1537.4	1539.1	1528.5	1525.0	1518.0	1468.4	1463.2	1449.0
30°	1491.4	1487.9	1479.1	1472.0	1479.1	1487.9	1491.4	1480.8	1431.4	1417.2	1420.7
32.5°	1434.9	1426.0	1417.2	1412.0	1417.2	1426.0	1434.9	1431.4	1394.2	1374.8	1378.3
35°	1367.8	1369.5	1367.8	1362.4	1367.8	1369.5	1367.8	1371.3	1348.3	1330.6	1328.9
37.5°	1320.0	1323.6	1321.8	1314.7	1321.8	1323.6	1320.0	1316.5	1284.7	1279.4	1282.9
40°	1270.6	1272.3	1270.6	1265.3	1270.6	1272.3	1270.6	1263.4	1219.3	1221.1	1233.4
42.5°	1222.9	1221.1	1215.7	1212.2	1215.7	1221.1	1222.9	1212.2	1155.7	1150.4	1173.3
45°	1168.1	1169.8	1159.2	1153.9	1159.2	1169.8	1168.1	1161.0	1102.7	1088.6	1104.5
47.5°	1113.2	1113.2	1104.5	1099.1	1104.5	1113.2	1113.2	1104.5	1042.6	1028.5	1037.3
50°	1054.9	1053.2	1040.8	1039.0	1040.8	1053.2	1054.9	1049.7	984.3	971.9	971.9
52.5°	987.8	987.8	989.6	993.1	989.6	987.8	987.8	989.6	931.3	918.9	915.4
55°	929.5	931.3	943.6	947.2	943.6	931.3	929.5	929.5	876.5	864.1	857.0
57.5°	869.4	869.4	878.2	878.2	878.2	869.4	869.4	865.9	814.6	804.0	800.5
60°	800.5	804.0	811.1	809.4	811.1	804.0	800.5	797.0	752.8	745.7	733.4
62.5°	728.0	731.6	733.4	729.8	733.4	731.6	728.0	717.5	691.0	685.6	669.7
65°	652.1	655.6	657.3	653.8	657.3	655.6	652.1	646.8	627.3	618.5	604.4
67.5°	574.3	572.6	570.8	577.8	570.8	572.6	574.3	567.2	554.9	547.8	528.4
70°	494.7	494.7	493.0	496.6	493.0	494.7	494.7	489.5	482.5	477.1	459.4
72.5°	410.0	408.2	415.3	410.0	415.3	408.2	410.0	408.2	404.6	399.4	381.7
75°	326.9	330.4	326.9	332.2	326.9	330.4	326.9	328.7	326.9	323.4	311.0
77.5°	249.2	252.7	249.2	249.2	249.2	252.7	249.2	250.9	250.9	250.9	240.3
80°	176.7	175.0	175.0	173.2	175.0	175.0	176.7	176.7	178.5	175.0	171.4
82.5°	113.1	111.4	111.4	114.9	111.4	111.4	113.1	114.9	111.4	111.4	111.4
85°	61.8	63.6	60.1	60.1	60.1	63.6	61.8	58.3	61.8	61.8	60.1
87.5°	23.0	21.2	21.2	21.2	21.2	21.2	23.0	24.8	24.8	24.8	26.5
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.4	17.8	20.0	17.2
92.5°	50.2	48.1	40.2	32.2	40.2	48.1	50.2	71.1	99.0	112.9	99.2
95°	170.2	164.2	140.0	115.8	140.0	164.2	170.2	223.5	294.6	330.2	278.9
97.5°	393.0	381.4	335.5	289.5	335.5	381.4	393.0	426.7	471.6	494.0	408.5
100°	551.8	538.1	483.4	428.6	483.4	538.1	551.8	549.4	546.1	544.5	449.5
102.5°	687.4	675.7	628.8	581.9	628.8	675.7	687.4	644.5	587.3	558.7	462.4
105°	845.8	839.5	814.3	789.1	814.3	839.5	845.8	749.5	621.2	557.1	463.8
107.5°	928.2	929.7	935.8	941.9	935.8	929.7	928.2	793.9	614.9	525.4	443.2
110°	949.3	955.9	982.1	1008.4	982.1	955.9	949.3	799.2	599.1	499.1	424.9



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CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	935.8	945.9	986.2	1026.6	986.2	945.9	935.8	782.2	577.5	475.1	408.9
115°	890.2	904.1	960.1	1016.0	960.1	904.1	890.2	742.2	544.9	446.3	390.6
117.5°	827.1	842.6	904.7	966.7	904.7	842.6	827.1	693.6	515.6	426.5	379.2
120°	784.6	799.7	859.9	920.2	859.9	799.7	784.6	662.6	499.8	418.5	375.2
122.5°	742.1	756.9	816.5	875.9	816.5	756.9	742.1	632.2	485.7	412.5	373.2
125°	685.9	699.6	754.3	809.1	754.3	699.6	685.9	592.5	468.0	405.9	371.6
127.5°	640.7	652.3	698.5	744.7	698.5	652.3	640.7	560.6	453.7	400.3	370.6
130°	612.3	623.0	665.7	708.3	665.7	623.0	612.3	540.9	445.8	398.2	371.2
132.5°	588.0	597.6	635.8	674.0	635.8	597.6	588.0	524.2	439.0	396.4	371.6
135°	553.7	561.9	594.9	627.8	594.9	561.9	553.7	500.2	428.9	393.2	371.3
137.5°	528.3	535.1	562.0	589.1	562.0	535.1	528.3	483.1	422.8	392.7	373.5
140°	508.0	514.3	539.5	564.7	539.5	514.3	508.0	468.9	416.8	390.8	373.9
142.5°	493.8	499.2	520.9	542.6	520.9	499.2	493.8	459.4	413.7	390.8	375.2
145°	472.4	476.5	492.9	509.3	492.9	476.5	472.4	444.3	406.9	388.2	375.2
147.5°	454.4	457.9	471.5	485.1	471.5	457.9	454.4	432.4	403.0	388.2	377.8
150°	444.2	446.9	457.9	468.9	457.9	446.9	444.2	425.5	400.7	388.2	379.2
152.5°	436.0	438.1	446.4	454.7	446.4	438.1	436.0	420.1	398.8	388.2	380.0
155°	426.2	427.6	433.1	438.6	433.1	427.6	426.2	413.6	396.6	388.2	382.0
157.5°	417.7	418.7	422.6	426.5	422.6	418.7	417.7	407.9	394.8	388.2	383.9
160°	413.5	414.0	416.3	418.5	416.3	414.0	413.5	405.1	393.8	388.2	384.8
162.5°	409.6	410.1	412.2	414.3	412.2	410.1	409.6	402.4	393.0	388.2	385.7
165°	403.5	404.0	406.3	408.5	406.3	404.0	403.5	398.4	391.6	388.2	387.1
167.5°	400.9	401.1	402.0	403.0	402.0	401.1	400.9	397.5	393.0	390.8	389.9
170°	400.9	400.9	400.9	400.9	400.9	400.9	400.9	397.5	393.0	390.8	390.8
172.5°	398.7	398.6	397.7	396.9	397.7	398.6	398.7	396.1	392.6	390.8	390.8
175°	395.9	395.9	395.9	395.9	395.9	395.9	395.9	394.2	392.0	390.8	391.4
177.5°	395.3	395.1	394.2	393.2	394.2	395.1	395.3	394.0	392.2	391.4	391.8
180°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2



TEST NUMBER: P933853

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1844.9	1853.7	1859.0	1866.0	1883.7
5°	1774.2	1807.7	1818.3	1844.9	1876.7
7.5°	1618.7	1721.1	1749.4	1813.1	1862.5
10°	1468.4	1570.9	1620.5	1770.7	1844.9
12.5°	1392.5	1452.5	1486.2	1696.4	1820.1
15°	1344.8	1387.2	1412.0	1597.5	1791.8
17.5°	1307.6	1337.7	1355.4	1500.3	1753.0
20°	1284.7	1298.8	1314.7	1429.6	1708.8
22.5°	1268.8	1259.9	1272.3	1380.1	1648.7
25°	1258.2	1224.6	1238.8	1341.3	1578.0
27.5°	1267.0	1192.8	1198.1	1305.9	1503.8
30°	1268.8	1153.9	1155.7	1268.8	1420.7
32.5°	1256.4	1113.2	1115.0	1222.9	1327.1
35°	1226.4	1065.6	1063.8	1169.8	1199.8
37.5°	1185.7	1014.3	1014.3	1111.5	1060.3
40°	1136.3	963.1	968.4	1035.5	936.5
42.5°	1076.2	908.3	915.4	934.8	844.7
45°	1010.7	855.3	860.6	789.9	774.0
47.5°	938.3	800.5	802.2	655.6	751.0
50°	851.8	743.9	736.9	561.9	749.3
52.5°	775.7	682.1	660.9	508.9	680.3
55°	701.5	616.7	570.8	468.3	630.9
57.5°	636.2	531.9	487.7	420.5	620.3
60°	576.1	448.8	415.3	369.3	569.1
62.5°	526.6	387.0	380.0	334.0	516.0
65°	473.6	344.6	342.8	304.0	438.3
67.5°	422.4	316.3	314.5	275.7	334.0
70°	367.6	286.2	282.7	245.7	247.4
72.5°	311.0	252.7	249.2	220.9	205.0
75°	254.4	213.8	212.0	192.6	166.1
77.5°	199.7	169.6	173.2	155.5	121.9
80°	143.2	123.7	127.3	111.4	91.9
82.5°	95.4	81.3	84.8	70.7	61.8
85°	53.0	45.9	47.7	37.2	28.3
87.5°	24.8	21.2	21.2	14.1	8.9
90°	11.6	7.4	6.9	4.7	2.6
92.5°	71.6	50.9	46.5	28.5	10.5
95°	176.2	99.2	91.0	58.1	25.3
97.5°	237.3	109.0	101.8	72.8	43.8
100°	259.6	117.2	110.6	84.3	58.1
102.5°	269.8	125.3	119.2	94.7	70.2
105°	277.4	137.5	132.3	111.5	90.8
107.5°	278.8	155.5	150.6	131.2	111.9
110°	276.7	165.5	161.1	143.6	126.1



TEST NUMBER: P933853

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	276.8	177.6	173.5	156.8	140.2
115°	279.3	195.9	192.0	176.6	161.3
117.5°	284.5	213.5	210.0	196.0	182.1
120°	288.7	223.8	220.5	207.4	194.2
122.5°	294.8	235.9	232.6	219.4	206.1
125°	303.0	251.5	248.6	236.4	224.3
127.5°	311.2	266.6	263.5	251.3	239.1
130°	317.2	276.6	273.3	260.2	247.0
132.5°	322.0	284.7	281.5	268.3	255.2
135°	327.3	294.2	291.2	279.3	267.4
137.5°	335.2	306.4	303.4	291.6	279.7
140°	340.0	314.6	311.9	300.9	290.0
142.5°	344.0	320.7	318.1	308.0	297.9
145°	349.3	329.9	327.7	318.9	310.1
147.5°	357.0	341.5	339.4	330.8	322.2
150°	361.1	347.5	345.6	337.9	330.2
152.5°	363.7	351.5	350.0	344.2	338.3
155°	369.5	360.2	359.1	354.7	350.4
157.5°	375.4	369.0	367.9	363.6	359.4
160°	378.0	372.9	372.1	368.8	365.5
162.5°	380.8	377.1	376.5	374.1	371.6
165°	384.9	383.2	382.7	380.4	378.2
167.5°	388.0	386.6	386.4	385.3	384.3
170°	390.7	390.6	390.3	389.3	388.2
172.5°	390.8	390.8	390.8	390.6	390.3
175°	392.4	393.2	393.2	393.2	393.2
177.5°	392.6	393.2	393.2	393.2	393.2
180°	393.2	393.2	393.2	393.2	393.2



TEST NUMBER: P933853
 CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.23	13.25	13.04	14.08	15.11	15.08	16.10	15.89	16.93	17.96
	3H	12.72	13.63	13.54	14.48	15.53	16.44	17.36	17.27	18.20	19.26
	4H	12.91	13.78	13.76	14.63	15.70	16.90	17.76	17.74	18.61	19.68
	6H	13.04	13.84	13.90	14.70	15.78	17.20	17.99	18.05	18.85	19.94
	8H	13.05	13.81	13.91	14.68	15.77	17.28	18.04	18.14	18.92	20.00
	12H	13.02	13.75	13.89	14.62	15.73	17.33	18.05	18.19	18.92	20.03
4H	2H	13.28	14.15	14.13	15.00	16.07	15.51	16.37	16.35	17.22	18.29
	3H	14.33	15.05	15.18	15.93	17.02	17.03	17.75	17.89	18.64	19.72
	4H	14.61	15.26	15.48	16.15	17.26	17.57	18.23	18.44	19.11	20.22
	6H	14.74	15.31	15.63	16.21	17.33	17.95	18.52	18.84	19.42	20.54
	8H	14.75	15.28	15.64	16.18	17.31	18.07	18.60	18.95	19.49	20.62
	12H	14.73	15.20	15.64	16.12	17.26	18.13	18.61	19.04	19.53	20.66
8H	4H	15.08	15.61	15.97	16.51	17.64	17.71	18.24	18.60	19.14	20.27
	6H	15.35	15.79	16.26	16.73	17.86	18.16	18.60	19.07	19.54	20.67
	8H	15.39	15.78	16.32	16.71	17.86	18.31	18.70	19.24	19.64	20.78
	12H	15.38	15.72	16.31	16.65	17.85	18.42	18.77	19.35	19.69	20.89
12H	4H	15.09	15.57	16.00	16.49	17.62	17.68	18.16	18.59	19.08	20.21
	6H	15.41	15.80	16.34	16.73	17.88	18.16	18.54	19.08	19.48	20.62
	8H	15.48	15.83	16.41	16.75	17.95	18.33	18.67	19.26	19.60	20.79