

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: P934041

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934041
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

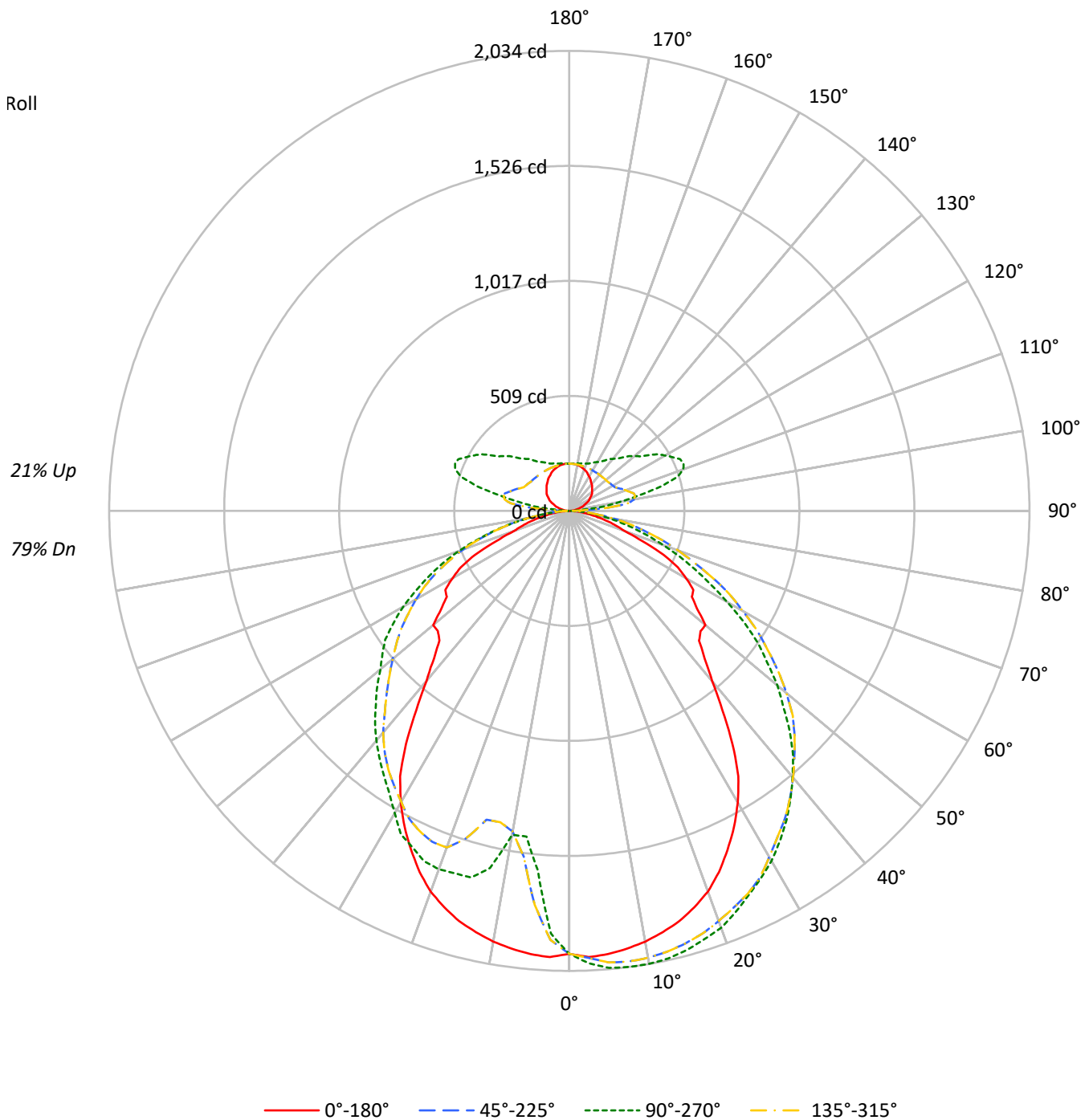
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6433.5 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 58.2
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





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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
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79		
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67		
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56		
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47		
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41		
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12111	12111	12111	12111
5°	12197	12226	12197	9613
10°	12112	12043	12112	8610
15°	11975	11782	11975	9839
20°	11721	11474	11721	9859
25°	11203	11023	11203	9651
30°	10537	10648	10537	9191
35°	9388	10175	9388	8687
40°	7818	9617	7818	8307
45°	6981	8965	6981	7868
50°	7410	8187	7410	7429
55°	6966	7349	6966	7174
60°	7172	6241	7172	6571
65°	6493	5159	6493	5767
70°	4485	4112	4485	4833
75°	3918	3039	3918	3640
80°	3134	2010	3134	2188
85°	1765	1064	1765	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	2.7
10°-20°	501.8	7.8
20°-30°	775.7	12.1
30°-40°	926.0	14.4
40°-50°	931.4	14.5
50°-60°	810.4	12.6
60°-70°	574.6	8.9
70°-80°	304.0	4.7
80°-90°	76.5	1.2
90°-100°	102.0	1.6
100°-110°	268.1	4.2
110°-120°	278.0	4.3
120°-130°	223.0	3.5
130°-140°	175.0	2.7
140°-150°	134.3	2.1
150°-160°	96.7	1.5
160°-170°	59.2	0.9
170°-180°	20.0	0.3
0°-30°	1454.2	22.6
0°-40°	2380.2	37.0
0°-60°	4122.1	64.1
0°-90°	5077.2	78.9
90°-120°	648.1	10.1
90°-150°	1180.5	18.3
90°-180°	1356.0	21.1
0°-180°	6433.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1958	1958	1958	1958	1958	
5°	1967	2028	1967	1595	1967	187
15°	1878	2010	1878	1678	1878	528
25°	1654	1875	1654	1641	1654	759
35°	1258	1673	1258	1428	1258	778
45°	811	1378	811	1210	811	650
55°	661	1017	661	993	661	608
65°	459	613	459	685	459	439
75°	174	291	174	348	174	183
85°	30	74	30	63	30	40
90°	1	5	1	5	1	2
95°	14	62	14	62	14	15
105°	48	420	48	420	48	51
115°	86	541	86	541	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	211	209	211	209	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1974.6	1974.6	1985.7	1989.3	1989.3	1983.8	1978.2	1983.8	2000.5	2006.1	2004.2
5°	1967.1	1982.0	2002.3	2006.1	2009.7	2007.8	2004.2	2007.8	2026.3	2030.1	2032.0
7.5°	1952.3	1980.1	2006.1	2011.6	2017.1	2011.6	2009.7	2013.5	2032.0	2035.7	2035.7
10°	1933.8	1972.7	2002.3	2006.1	2011.6	2006.1	2006.1	2013.5	2032.0	2035.7	2037.5
12.5°	1907.8	1961.6	1989.3	1993.1	2000.5	1998.6	1996.7	2004.2	2022.7	2026.3	2026.3
15°	1878.2	1941.2	1967.1	1970.8	1983.8	1980.1	1980.1	1987.5	2007.8	2013.5	2011.6
17.5°	1837.4	1915.2	1944.9	1950.5	1959.7	1957.8	1959.7	1967.1	1985.7	1989.3	1991.2
20°	1791.2	1880.1	1915.2	1920.8	1930.1	1930.1	1930.1	1939.3	1957.8	1965.3	1965.3
22.5°	1728.2	1843.1	1880.1	1883.8	1894.9	1894.9	1898.6	1911.6	1928.2	1930.1	1930.1
25°	1654.1	1802.3	1833.8	1844.8	1856.0	1861.6	1867.1	1874.6	1880.1	1878.2	1880.1
27.5°	1576.3	1750.4	1791.2	1798.6	1813.4	1818.9	1826.3	1828.2	1830.1	1835.6	1831.9
30°	1489.3	1678.2	1739.3	1746.7	1770.8	1774.4	1767.1	1770.8	1780.1	1783.8	1787.4
32.5°	1391.0	1570.8	1685.6	1702.3	1724.4	1713.3	1711.5	1717.1	1731.9	1731.9	1735.6
35°	1257.7	1487.4	1635.5	1650.4	1667.0	1654.1	1661.5	1663.3	1672.6	1678.2	1676.3
37.5°	1111.4	1415.1	1583.7	1594.8	1607.8	1591.2	1602.2	1607.8	1615.2	1611.5	1611.5
40°	981.7	1302.1	1522.5	1530.0	1541.1	1528.2	1539.3	1542.9	1546.7	1542.9	1541.1
42.5°	885.4	1178.0	1457.8	1467.0	1459.6	1468.9	1472.5	1480.0	1474.4	1467.0	1467.0
45°	811.3	1144.7	1387.4	1398.5	1387.4	1402.2	1407.8	1407.8	1391.0	1387.4	1385.5
47.5°	787.2	1078.0	1317.0	1317.0	1311.4	1329.9	1339.2	1326.3	1309.5	1304.0	1304.0
50°	785.3	1004.0	1220.6	1213.2	1239.1	1261.4	1252.1	1239.1	1226.2	1205.9	1205.9
52.5°	713.1	913.2	1096.5	1124.4	1165.1	1178.0	1163.2	1150.2	1128.0	1118.7	1111.4
55°	661.3	818.7	983.6	1039.1	1081.7	1098.4	1070.6	1057.6	1024.3	1018.7	1015.1
57.5°	650.2	681.7	879.8	950.2	1002.1	1000.2	983.6	959.5	931.7	926.1	924.3
60°	596.4	492.7	768.7	852.1	905.7	900.2	885.4	863.2	837.2	833.6	829.8
62.5°	540.8	357.5	642.7	737.2	813.2	811.3	798.3	765.0	746.5	737.2	729.8
65°	459.4	300.0	457.5	613.1	722.4	726.1	698.3	674.2	653.8	642.7	640.9
67.5°	350.0	244.5	309.3	511.2	635.3	631.7	596.4	585.3	559.4	553.8	542.7
70°	259.3	163.0	214.9	414.9	550.2	540.8	513.1	500.2	476.0	463.1	455.7
72.5°	214.9	131.5	157.4	322.3	463.1	451.9	427.9	413.0	392.7	381.5	374.2
75°	174.1	138.9	120.4	238.9	376.0	368.6	346.4	331.5	314.9	300.0	301.9
77.5°	127.8	129.6	96.3	176.0	298.2	287.1	274.1	255.6	248.2	233.4	233.4
80°	96.3	101.9	72.3	120.4	214.9	214.9	203.8	190.8	177.8	170.4	170.4
82.5°	64.9	64.9	53.7	75.9	146.4	140.8	133.4	129.6	122.3	118.5	118.5
85°	29.6	37.0	33.4	46.3	79.6	83.4	83.4	79.6	77.8	74.1	75.9
87.5°	9.3	16.6	20.4	25.9	40.8	42.6	44.5	44.5	44.5	46.3	46.3
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8	26.6	25.6
95°	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9	90.6	87.4
97.5°	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0	209.1	203.0
100°	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3	293.6	286.3
102.5°	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9	365.8	359.6
105°	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8	450.1	446.7
107.5°	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5	493.9	494.7
110°	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3	505.1	508.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2	497.9	503.2
115°	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9	473.6	481.1
117.5°	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0	440.1	448.3
120°	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6	417.5	425.6
122.5°	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4	394.9	402.9
125°	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4	365.0	372.3
127.5°	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4	341.0	347.1
130°	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8	325.7	331.4
132.5°	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9	312.8	317.9
135°	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2	294.6	299.0
137.5°	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1	281.2	284.7
140°	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6	270.3	273.7
142.5°	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5	262.7	265.6
145°	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4	251.3	253.5
147.5°	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0	241.8	243.6
150°	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4	236.3	237.8
152.5°	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5	232.0	233.1
155°	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0	226.8	227.5
157.5°	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0	222.3	222.8
160°	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5	220.0	220.3
162.5°	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1	218.0	218.3
165°	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0	214.7	215.0
167.5°	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5	213.3	213.4
170°	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5	213.3	213.3
172.5°	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8	212.2	212.1
175°	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7	210.7	210.7
177.5°	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7	210.4	210.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	2007.8	2002.3	2007.8	2004.2	2006.1	2000.5	1983.8	1978.2	1983.8	1989.3	1989.3
5°	2032.0	2028.2	2032.0	2032.0	2030.1	2026.3	2007.8	2004.2	2007.8	2009.7	2006.1
7.5°	2039.3	2033.8	2039.3	2035.7	2035.7	2032.0	2013.5	2009.7	2011.6	2017.1	2011.6
10°	2039.3	2033.8	2039.3	2037.5	2035.7	2032.0	2013.5	2006.1	2006.1	2011.6	2006.1
12.5°	2030.1	2026.3	2030.1	2026.3	2026.3	2022.7	2004.2	1996.7	1998.6	2000.5	1993.1
15°	2015.3	2009.7	2015.3	2011.6	2013.5	2007.8	1987.5	1980.1	1980.1	1983.8	1970.8
17.5°	1993.1	1985.7	1993.1	1991.2	1989.3	1985.7	1967.1	1959.7	1957.8	1959.7	1950.5
20°	1967.1	1961.6	1967.1	1965.3	1965.3	1957.8	1939.3	1930.1	1930.1	1930.1	1920.8
22.5°	1926.3	1920.8	1926.3	1930.1	1930.1	1928.2	1911.6	1898.6	1894.9	1894.9	1883.8
25°	1880.1	1874.6	1880.1	1880.1	1878.2	1880.1	1874.6	1867.1	1861.6	1856.0	1844.8
27.5°	1835.6	1831.9	1835.6	1831.9	1835.6	1830.1	1828.2	1826.3	1818.9	1813.4	1798.6
30°	1791.2	1787.4	1791.2	1787.4	1783.8	1780.1	1770.8	1767.1	1774.4	1770.8	1746.7
32.5°	1735.6	1731.9	1735.6	1735.6	1731.9	1731.9	1717.1	1711.5	1713.3	1724.4	1702.3
35°	1678.2	1672.6	1678.2	1676.3	1678.2	1672.6	1663.3	1661.5	1654.1	1667.0	1650.4
37.5°	1611.5	1605.9	1611.5	1611.5	1611.5	1615.2	1607.8	1602.2	1591.2	1607.8	1594.8
40°	1542.9	1535.5	1542.9	1541.1	1542.9	1546.7	1542.9	1539.3	1528.2	1541.1	1530.0
42.5°	1465.2	1463.3	1465.2	1467.0	1467.0	1474.4	1480.0	1472.5	1468.9	1459.6	1467.0
45°	1381.8	1378.1	1381.8	1385.5	1387.4	1391.0	1407.8	1407.8	1402.2	1387.4	1398.5
47.5°	1292.9	1283.6	1292.9	1304.0	1304.0	1309.5	1326.3	1339.2	1329.9	1311.4	1317.0
50°	1198.4	1200.3	1198.4	1205.9	1205.9	1226.2	1239.1	1252.1	1261.4	1239.1	1213.2
52.5°	1105.9	1104.0	1105.9	1111.4	1118.7	1128.0	1150.2	1163.2	1178.0	1165.1	1124.4
55°	1013.2	1016.9	1013.2	1015.1	1018.7	1024.3	1057.6	1070.6	1098.4	1081.7	1039.1
57.5°	920.6	915.0	920.6	924.3	926.1	931.7	959.5	983.6	1000.2	1002.1	950.2
60°	813.2	805.7	813.2	829.8	833.6	837.2	863.2	885.4	900.2	905.7	852.1
62.5°	718.7	705.7	718.7	729.8	737.2	746.5	765.0	798.3	811.3	813.2	737.2
65°	618.7	613.1	618.7	640.9	642.7	653.8	674.2	698.3	726.1	722.4	613.1
67.5°	527.9	527.9	527.9	542.7	553.8	559.4	585.3	596.4	631.7	635.3	511.2
70°	444.5	442.7	444.5	455.7	463.1	476.0	500.2	513.1	540.8	550.2	414.9
72.5°	364.9	363.0	364.9	374.2	381.5	392.7	413.0	427.9	451.9	463.1	322.3
75°	294.5	290.8	294.5	301.9	300.0	314.9	331.5	346.4	368.6	376.0	238.9
77.5°	226.0	226.0	226.0	233.4	233.4	248.2	255.6	274.1	287.1	298.2	176.0
80°	168.5	166.8	168.5	170.4	170.4	177.8	190.8	203.8	214.9	214.9	120.4
82.5°	118.5	114.9	118.5	118.5	118.5	122.3	129.6	133.4	140.8	146.4	75.9
85°	74.1	74.1	74.1	75.9	74.1	77.8	79.6	83.4	83.4	79.6	46.3
87.5°	48.1	46.3	48.1	46.3	46.3	44.5	44.5	44.5	42.6	40.8	25.9
90°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8	38.1	27.1
95°	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3	93.8	52.8
97.5°	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3	126.3	58.0
100°	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2	138.1	62.3
102.5°	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0	143.6	66.7
105°	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8	147.6	73.2
107.5°	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8	148.3	82.7
110°	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1	147.2	88.0



TEST NUMBER: P934041

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6	147.2	94.5
115°	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8	148.6	104.2
117.5°	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7	151.3	113.6
120°	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7	153.7	119.1
122.5°	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6	156.8	125.5
125°	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8	161.2	133.8
127.5°	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2	165.5	141.8
130°	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5	168.7	147.1
132.5°	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8	171.3	151.5
135°	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6	174.1	156.6
137.5°	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8	178.3	163.0
140°	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0	181.0	167.4
142.5°	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7	183.0	170.6
145°	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7	185.9	175.5
147.5°	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1	190.0	181.7
150°	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8	192.2	185.0
152.5°	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3	193.6	187.0
155°	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3	196.7	191.7
157.5°	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3	199.7	196.3
160°	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8	201.1	198.4
162.5°	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3	202.6	200.7
165°	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0	204.8	203.9
167.5°	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5	206.5	205.7
170°	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0	207.9	207.8
172.5°	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3	208.8	209.3
177.5°	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4	208.9	209.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P934041

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1985.7	1974.6	1974.6	1956.0	1948.6	1943.1	1933.8	1906.0	1898.6	1891.2	1902.3
5°	2002.3	1982.0	1967.1	1933.8	1906.0	1894.9	1859.7	1793.0	1748.6	1715.2	1696.7
7.5°	2006.1	1980.1	1952.3	1900.4	1833.8	1804.1	1696.7	1574.4	1541.1	1511.4	1492.9
10°	2002.3	1972.7	1933.8	1856.0	1698.5	1646.7	1539.3	1459.6	1439.3	1433.7	1439.3
12.5°	1989.3	1961.6	1907.8	1778.2	1557.8	1522.5	1459.6	1413.3	1409.6	1418.9	1468.9
15°	1967.1	1941.2	1878.2	1674.4	1480.0	1454.0	1409.6	1392.9	1413.3	1478.1	1628.2
17.5°	1944.9	1915.2	1837.4	1572.5	1420.7	1402.2	1370.7	1404.0	1518.9	1605.9	1655.9
20°	1915.2	1880.1	1791.2	1498.5	1378.1	1361.4	1346.6	1496.7	1583.7	1615.2	1642.9
22.5°	1880.1	1843.1	1728.2	1446.6	1333.6	1320.6	1329.9	1548.5	1583.7	1605.9	1630.0
25°	1833.8	1802.3	1654.1	1405.9	1298.5	1283.6	1318.9	1542.9	1563.3	1568.9	1617.0
27.5°	1791.2	1750.4	1576.3	1368.9	1255.9	1250.3	1328.1	1518.9	1533.7	1539.3	1591.2
30°	1739.3	1678.2	1489.3	1329.9	1211.4	1209.5	1329.9	1489.3	1485.5	1500.4	1552.2
32.5°	1685.6	1570.8	1391.0	1281.8	1168.8	1167.0	1317.0	1444.8	1441.0	1461.4	1500.4
35°	1635.5	1487.4	1257.7	1226.2	1115.1	1116.9	1285.5	1392.9	1394.8	1413.3	1437.4
37.5°	1583.7	1415.1	1111.4	1165.1	1063.2	1063.2	1242.9	1344.8	1341.0	1346.6	1379.9
40°	1522.5	1302.1	981.7	1085.5	1015.1	1009.5	1191.0	1292.9	1279.9	1278.1	1324.4
42.5°	1457.8	1178.0	885.4	979.9	959.5	952.1	1128.0	1229.9	1205.9	1211.4	1270.6
45°	1387.4	1144.7	811.3	828.0	902.1	896.5	1059.5	1157.6	1141.0	1155.9	1217.0
47.5°	1317.0	1078.0	787.2	687.2	841.0	839.1	983.6	1087.3	1078.0	1092.9	1157.6
50°	1220.6	1004.0	785.3	589.1	772.4	779.8	892.8	1018.7	1018.7	1031.7	1100.2
52.5°	1096.5	913.2	713.1	533.4	692.7	715.0	813.2	959.5	963.2	976.1	1037.2
55°	983.6	818.7	661.3	490.8	598.3	646.4	735.3	898.3	905.7	918.7	974.3
57.5°	879.8	681.7	650.2	440.8	511.2	557.6	666.8	839.1	842.8	853.9	907.6
60°	768.7	492.7	596.4	387.2	435.3	470.4	603.8	768.7	781.7	789.1	835.3
62.5°	642.7	357.5	540.8	350.0	398.3	405.7	551.9	702.1	718.7	724.2	752.1
65°	457.5	300.0	459.4	318.5	359.3	361.2	496.4	633.5	648.3	657.6	677.9
67.5°	309.3	244.5	350.0	288.9	329.7	331.5	442.7	553.8	574.2	581.6	594.6
70°	214.9	163.0	259.3	257.5	296.4	300.0	385.3	481.6	500.2	505.7	513.1
72.5°	157.4	131.5	214.9	231.5	261.2	264.9	326.0	400.1	418.7	424.2	427.9
75°	120.4	138.9	174.1	201.9	222.3	224.1	266.8	326.0	338.9	342.7	344.5
77.5°	96.3	129.6	127.8	163.0	181.5	177.8	209.3	251.9	263.0	263.0	263.0
80°	72.3	101.9	96.3	116.7	133.4	129.6	150.0	179.7	183.4	187.0	185.3
82.5°	53.7	64.9	64.9	74.1	88.9	85.2	100.0	116.7	116.7	116.7	120.4
85°	33.4	37.0	29.6	38.9	50.0	48.1	55.6	63.0	64.9	64.9	61.1
87.5°	20.4	16.6	9.3	14.9	22.2	22.2	25.9	27.8	25.9	25.9	25.9
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8
95°	48.4	30.9	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9
97.5°	54.1	38.7	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0
100°	58.9	44.9	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3
102.5°	63.5	50.5	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9
105°	70.4	59.4	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8
107.5°	80.1	69.8	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5
110°	85.7	76.5	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3



TEST NUMBER: P934041

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	92.3	83.5	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2
115°	102.2	94.0	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9
117.5°	111.7	104.3	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0
120°	117.3	110.4	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6
122.5°	123.8	116.7	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4
125°	132.3	125.8	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4
127.5°	140.2	133.7	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4
130°	145.3	138.4	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8
132.5°	149.7	142.8	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9
135°	155.0	148.6	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2
137.5°	161.4	155.2	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1
140°	165.9	160.1	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6
142.5°	169.3	163.9	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5
145°	174.3	169.6	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4
147.5°	180.6	176.0	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0
150°	184.0	179.7	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4
152.5°	186.3	183.1	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5
155°	191.1	188.8	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0
157.5°	195.7	193.5	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0
160°	198.0	196.3	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5
162.5°	200.3	199.0	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1
165°	203.6	202.4	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0
167.5°	205.5	205.0	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5
170°	207.7	207.1	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5
172.5°	208.0	207.8	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8
175°	209.3	209.3	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7
177.5°	209.3	209.3	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P934041

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1889.3	1883.8	1891.2	1870.8	1891.2	1883.8	1889.3	1902.3	1891.2	1898.6	1906.0
5°	1657.8	1648.5	1618.9	1594.8	1618.9	1648.5	1657.8	1696.7	1715.2	1748.6	1793.0
7.5°	1481.8	1474.4	1467.0	1452.2	1467.0	1474.4	1481.8	1492.9	1511.4	1541.1	1574.4
10°	1442.9	1444.8	1455.9	1454.0	1455.9	1444.8	1442.9	1439.3	1433.7	1439.3	1459.6
12.5°	1542.9	1559.7	1620.8	1617.0	1620.8	1559.7	1542.9	1468.9	1418.9	1409.6	1413.3
15°	1657.8	1663.3	1676.3	1678.2	1676.3	1663.3	1657.8	1628.2	1478.1	1413.3	1392.9
17.5°	1668.9	1670.8	1680.0	1680.0	1680.0	1670.8	1668.9	1655.9	1605.9	1518.9	1404.0
20°	1659.7	1663.3	1681.9	1685.6	1681.9	1663.3	1659.7	1642.9	1615.2	1583.7	1496.7
22.5°	1655.9	1663.3	1678.2	1676.3	1678.2	1663.3	1655.9	1630.0	1605.9	1583.7	1548.5
25°	1637.4	1637.4	1639.3	1641.2	1639.3	1637.4	1637.4	1617.0	1568.9	1563.3	1542.9
27.5°	1598.5	1602.2	1613.3	1611.5	1613.3	1602.2	1598.5	1591.2	1539.3	1533.7	1518.9
30°	1563.3	1559.7	1550.4	1542.9	1550.4	1559.7	1563.3	1552.2	1500.4	1485.5	1489.3
32.5°	1504.0	1494.8	1485.5	1480.0	1485.5	1494.8	1504.0	1500.4	1461.4	1441.0	1444.8
35°	1433.7	1435.5	1433.7	1428.1	1433.7	1435.5	1433.7	1437.4	1413.3	1394.8	1392.9
37.5°	1383.6	1387.4	1385.5	1378.1	1385.5	1387.4	1383.6	1379.9	1346.6	1341.0	1344.8
40°	1331.8	1333.6	1331.8	1326.3	1331.8	1333.6	1331.8	1324.4	1278.1	1279.9	1292.9
42.5°	1281.8	1279.9	1274.4	1270.6	1274.4	1279.9	1281.8	1270.6	1211.4	1205.9	1229.9
45°	1224.4	1226.2	1215.1	1209.5	1215.1	1226.2	1224.4	1217.0	1155.9	1141.0	1157.6
47.5°	1167.0	1167.0	1157.6	1152.1	1157.6	1167.0	1167.0	1157.6	1092.9	1078.0	1087.3
50°	1105.9	1104.0	1091.0	1089.1	1091.0	1104.0	1105.9	1100.2	1031.7	1018.7	1018.7
52.5°	1035.5	1035.5	1037.2	1041.0	1037.2	1035.5	1035.5	1037.2	976.1	963.2	959.5
55°	974.3	976.1	989.1	992.8	989.1	976.1	974.3	974.3	918.7	905.7	898.3
57.5°	911.3	911.3	920.6	920.6	920.6	911.3	911.3	907.6	853.9	842.8	839.1
60°	839.1	842.8	850.2	848.3	850.2	842.8	839.1	835.3	789.1	781.7	768.7
62.5°	763.1	766.8	768.7	765.0	768.7	766.8	763.1	752.1	724.2	718.7	702.1
65°	683.5	687.2	689.1	685.3	689.1	687.2	683.5	677.9	657.6	648.3	633.5
67.5°	602.0	600.2	598.3	605.7	598.3	600.2	602.0	594.6	581.6	574.2	553.8
70°	518.7	518.7	516.8	520.4	516.8	518.7	518.7	513.1	505.7	500.2	481.6
72.5°	429.7	427.9	435.3	429.7	435.3	427.9	429.7	427.9	424.2	418.7	400.1
75°	342.7	346.4	342.7	348.3	342.7	346.4	342.7	344.5	342.7	338.9	326.0
77.5°	261.2	264.9	261.2	261.2	261.2	264.9	261.2	263.0	263.0	263.0	251.9
80°	185.3	183.4	183.4	181.5	183.4	183.4	185.3	185.3	187.0	183.4	179.7
82.5°	118.5	116.7	116.7	120.4	116.7	116.7	118.5	120.4	116.7	116.7	116.7
85°	64.9	66.6	63.0	63.0	63.0	66.6	64.9	61.1	64.9	64.9	63.0
87.5°	24.1	22.2	22.2	22.2	22.2	22.2	24.1	25.9	25.9	25.9	27.8
90°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8
95°	90.6	87.4	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3
97.5°	209.1	203.0	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3
100°	293.6	286.3	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2
102.5°	365.8	359.6	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0
105°	450.1	446.7	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8
107.5°	493.9	494.7	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8
110°	505.1	508.6	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1



TEST NUMBER: P934041

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.9	503.2	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6
115°	473.6	481.1	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8
117.5°	440.1	448.3	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7
120°	417.5	425.6	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7
122.5°	394.9	402.9	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6
125°	365.0	372.3	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8
127.5°	341.0	347.1	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2
130°	325.7	331.4	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5
132.5°	312.8	317.9	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8
135°	294.6	299.0	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6
137.5°	281.2	284.7	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8
140°	270.3	273.7	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0
142.5°	262.7	265.6	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7
145°	251.3	253.5	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7
147.5°	241.8	243.6	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1
150°	236.3	237.8	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8
152.5°	232.0	233.1	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3
155°	226.8	227.5	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3
157.5°	222.3	222.8	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3
160°	220.0	220.3	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8
162.5°	218.0	218.3	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3
165°	214.7	215.0	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0
167.5°	213.3	213.4	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5
170°	213.3	213.3	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0
172.5°	212.2	212.1	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3
177.5°	210.4	210.3	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1933.8	1943.1	1948.6	1956.0	1974.6
5°	1859.7	1894.9	1906.0	1933.8	1967.1
7.5°	1696.7	1804.1	1833.8	1900.4	1952.3
10°	1539.3	1646.7	1698.5	1856.0	1933.8
12.5°	1459.6	1522.5	1557.8	1778.2	1907.8
15°	1409.6	1454.0	1480.0	1674.4	1878.2
17.5°	1370.7	1402.2	1420.7	1572.5	1837.4
20°	1346.6	1361.4	1378.1	1498.5	1791.2
22.5°	1329.9	1320.6	1333.6	1446.6	1728.2
25°	1318.9	1283.6	1298.5	1405.9	1654.1
27.5°	1328.1	1250.3	1255.9	1368.9	1576.3
30°	1329.9	1209.5	1211.4	1329.9	1489.3
32.5°	1317.0	1167.0	1168.8	1281.8	1391.0
35°	1285.5	1116.9	1115.1	1226.2	1257.7
37.5°	1242.9	1063.2	1063.2	1165.1	1111.4
40°	1191.0	1009.5	1015.1	1085.5	981.7
42.5°	1128.0	952.1	959.5	979.9	885.4
45°	1059.5	896.5	902.1	828.0	811.3
47.5°	983.6	839.1	841.0	687.2	787.2
50°	892.8	779.8	772.4	589.1	785.3
52.5°	813.2	715.0	692.7	533.4	713.1
55°	735.3	646.4	598.3	490.8	661.3
57.5°	666.8	557.6	511.2	440.8	650.2
60°	603.8	470.4	435.3	387.2	596.4
62.5°	551.9	405.7	398.3	350.0	540.8
65°	496.4	361.2	359.3	318.5	459.4
67.5°	442.7	331.5	329.7	288.9	350.0
70°	385.3	300.0	296.4	257.5	259.3
72.5°	326.0	264.9	261.2	231.5	214.9
75°	266.8	224.1	222.3	201.9	174.1
77.5°	209.3	177.8	181.5	163.0	127.8
80°	150.0	129.6	133.4	116.7	96.3
82.5°	100.0	85.2	88.9	74.1	64.9
85°	55.6	48.1	50.0	38.9	29.6
87.5°	25.9	22.2	22.2	14.9	9.3
90°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.8	52.8	48.4	30.9	13.5
97.5°	126.3	58.0	54.1	38.7	23.3
100°	138.1	62.3	58.9	44.9	30.9
102.5°	143.6	66.7	63.5	50.5	37.4
105°	147.6	73.2	70.4	59.4	48.3
107.5°	148.3	82.7	80.1	69.8	59.5
110°	147.2	88.0	85.7	76.5	67.1



TEST NUMBER: P934041

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	147.2	94.5	92.3	83.5	74.6
115°	148.6	104.2	102.2	94.0	85.8
117.5°	151.3	113.6	111.7	104.3	96.9
120°	153.7	119.1	117.3	110.4	103.4
122.5°	156.8	125.5	123.8	116.7	109.6
125°	161.2	133.8	132.3	125.8	119.4
127.5°	165.5	141.8	140.2	133.7	127.2
130°	168.7	147.1	145.3	138.4	131.4
132.5°	171.3	151.5	149.7	142.8	135.8
135°	174.1	156.6	155.0	148.6	142.3
137.5°	178.3	163.0	161.4	155.2	148.9
140°	181.0	167.4	165.9	160.1	154.3
142.5°	183.0	170.6	169.3	163.9	158.5
145°	185.9	175.5	174.3	169.6	165.0
147.5°	190.0	181.7	180.6	176.0	171.4
150°	192.2	185.0	184.0	179.7	175.6
152.5°	193.6	187.0	186.3	183.1	180.0
155°	196.7	191.7	191.1	188.8	186.5
157.5°	199.7	196.3	195.7	193.5	191.2
160°	201.1	198.4	198.0	196.3	194.5
162.5°	202.6	200.7	200.3	199.0	197.7
165°	204.8	203.9	203.6	202.4	201.2
167.5°	206.5	205.7	205.5	205.0	204.4
170°	207.9	207.8	207.7	207.1	206.6
172.5°	208.0	208.0	208.0	207.8	207.7
175°	208.8	209.3	209.3	209.3	209.3
177.5°	208.9	209.3	209.3	209.3	209.3
180°	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P934041
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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	15.80	17.00	16.46	17.68	18.47	18.63	19.83	19.29	20.50	21.29
	3H	16.30	17.38	16.98	18.07	18.89	20.00	21.07	20.67	21.76	22.58
	4H	16.51	17.53	17.21	18.23	19.06	20.45	21.47	21.15	22.17	23.00
	6H	16.65	17.58	17.36	18.29	19.14	20.75	21.69	21.46	22.40	23.25
	8H	16.66	17.55	17.38	18.28	19.13	20.84	21.73	21.56	22.46	23.31
	12H	16.64	17.49	17.37	18.22	19.10	20.89	21.74	21.61	22.46	23.34
4H	2H	16.87	17.89	17.57	18.59	19.42	19.08	20.09	19.77	20.79	21.63
	3H	17.93	18.78	18.64	19.52	20.37	20.61	21.46	21.32	22.19	23.05
	4H	18.22	18.99	18.95	19.73	20.61	21.15	21.92	21.88	22.66	23.54
	6H	18.37	19.03	19.11	19.80	20.69	21.53	22.20	22.28	22.97	23.86
	8H	18.38	19.00	19.13	19.76	20.67	21.65	22.27	22.40	23.03	23.94
	12H	18.36	18.92	19.13	19.71	20.62	21.72	22.28	22.49	23.06	23.97
8H	4H	18.70	19.32	19.45	20.08	20.99	21.30	21.93	22.05	22.69	23.59
	6H	18.98	19.49	19.76	20.30	21.20	21.75	22.27	22.53	23.07	23.98
	8H	19.02	19.48	19.82	20.29	21.21	21.91	22.37	22.70	23.17	24.09
	12H	19.02	19.43	19.82	20.22	21.20	22.02	22.42	22.81	23.22	24.20
12H	4H	18.72	19.28	19.49	20.07	20.98	21.28	21.84	22.06	22.63	23.54
	6H	19.04	19.50	19.83	20.30	21.22	21.75	22.21	22.54	23.02	23.94
	8H	19.12	19.53	19.92	20.32	21.30	21.93	22.33	22.72	23.13	24.11