

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: P933993

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933993
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

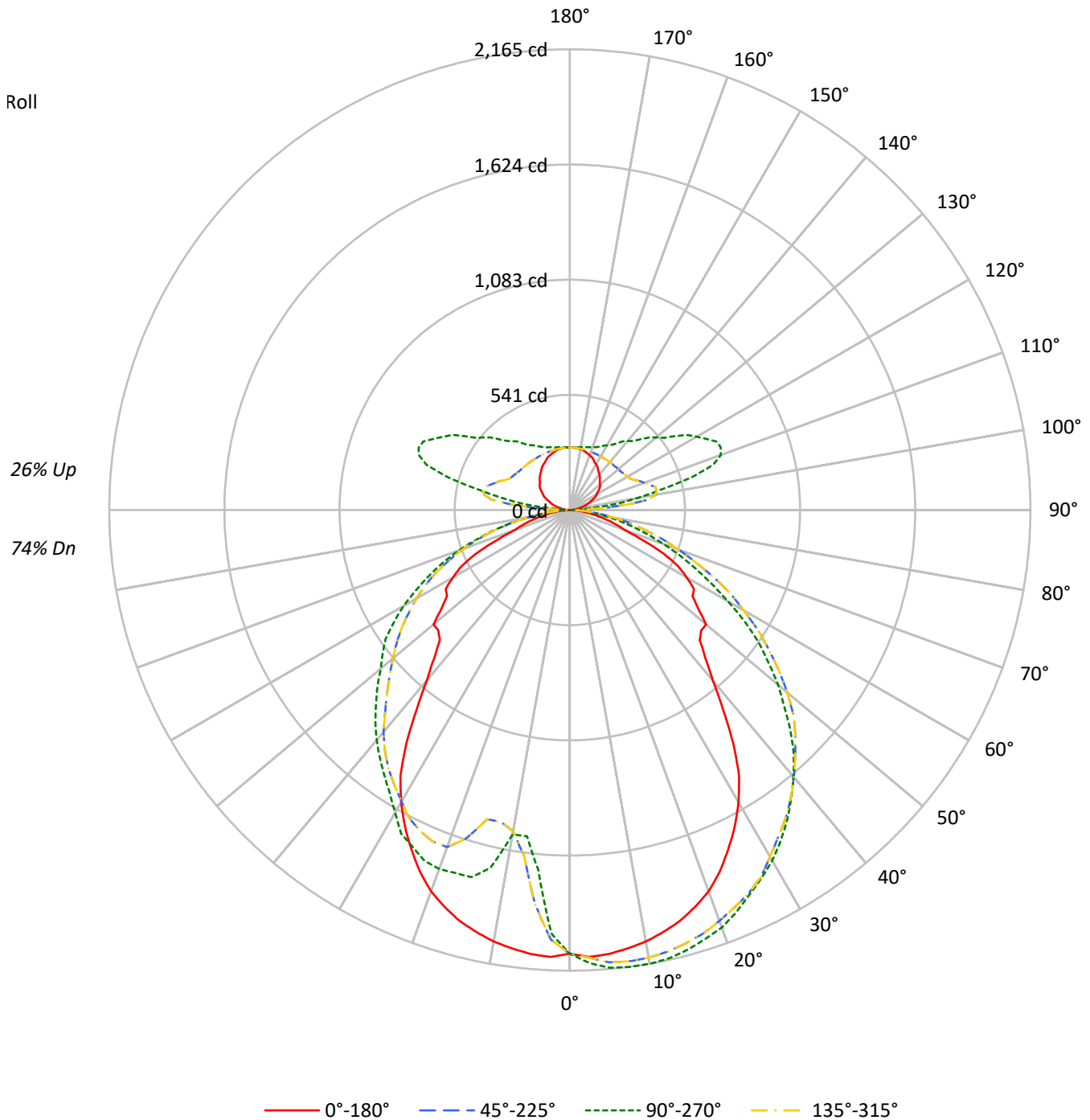
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7313.2 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74		
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62		
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52		
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44		
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38		
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33		
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29		
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26		
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23		
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21		
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9670	9670	9670	9670
5°	9743	9762	9743	7676
10°	9678	9616	9678	6874
15°	9572	9407	9572	7855
20°	9372	9161	9372	7872
25°	8962	8801	8962	7705
30°	8433	8502	8433	7339
35°	7518	8124	7518	6936
40°	6265	7679	6265	6632
45°	5597	7158	5597	6282
50°	5946	6537	5946	5932
55°	5595	5868	5595	5729
60°	5767	4983	5767	5247
65°	5229	4119	5229	4605
70°	3621	3283	3621	3860
75°	3175	2427	3175	2906
80°	2557	1605	2557	1747
85°	1472	850	1472	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8578 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	2.6
10°-20°	534.2	7.3
20°-30°	825.8	11.3
30°-40°	985.8	13.5
40°-50°	991.6	13.6
50°-60°	862.8	11.8
60°-70°	611.8	8.4
70°-80°	323.7	4.4
80°-90°	81.7	1.1
90°-100°	143.4	2.0
100°-110°	377.1	5.2
110°-120°	391.1	5.3
120°-130°	313.7	4.3
130°-140°	246.1	3.4
140°-150°	188.9	2.6
150°-160°	136.0	1.9
160°-170°	83.2	1.1
170°-180°	28.1	0.4
0°-30°	1548.1	21.2
0°-40°	2533.9	34.6
0°-60°	4388.3	60.0
0°-90°	5405.4	73.9
90°-120°	911.7	12.5
90°-150°	1660.4	22.7
90°-180°	1908.0	26.1
0°-180°	7313.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2084	2084	2084	2084	2084	
5°	2094	2159	2094	1698	2094	199
15°	2000	2140	2000	1786	2000	563
25°	1761	1996	1761	1747	1761	809
35°	1339	1781	1339	1520	1339	828
45°	864	1467	864	1288	864	692
55°	704	1083	704	1057	704	647
65°	489	653	489	730	489	467
75°	185	310	185	371	185	195
85°	32	79	32	67	32	43
90°	2	8	2	8	2	3
95°	19	87	19	87	19	21
105°	68	590	68	590	68	72
115°	121	760	121	760	121	119
125°	168	606	168	606	168	149
135°	200	470	200	470	200	155
145°	232	381	232	381	232	145
155°	262	328	262	328	262	121
165°	283	306	283	306	283	80
175°	294	296	294	296	294	28
180°	294	294	294	294	294	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3
2.5°	2102.1	2102.1	2113.9	2117.8	2117.8	2111.9	2106.0	2111.9	2129.7	2135.6	2133.6
5°	2094.2	2109.9	2131.6	2135.6	2139.5	2137.5	2133.6	2137.5	2157.3	2161.2	2163.2
7.5°	2078.4	2108.0	2135.6	2141.5	2147.4	2141.5	2139.5	2143.5	2163.2	2167.1	2167.1
10°	2058.7	2100.1	2131.6	2135.6	2141.5	2135.6	2135.6	2143.5	2163.2	2167.1	2169.1
12.5°	2031.1	2088.2	2117.8	2121.8	2129.7	2127.7	2125.7	2133.6	2153.3	2157.3	2157.3
15°	1999.5	2066.6	2094.2	2098.1	2111.9	2108.0	2108.0	2115.9	2137.5	2143.5	2141.5
17.5°	1956.1	2038.9	2070.5	2076.4	2086.3	2084.3	2086.3	2094.2	2113.9	2117.8	2119.8
20°	1906.8	2001.5	2038.9	2044.9	2054.7	2054.7	2054.7	2064.6	2084.3	2092.2	2092.2
22.5°	1839.8	1962.0	2001.5	2005.4	2017.3	2017.3	2021.2	2035.0	2052.8	2054.7	2054.7
25°	1760.9	1918.7	1952.2	1964.0	1975.8	1981.8	1987.7	1995.6	2001.5	1999.5	2001.5
27.5°	1678.1	1863.4	1906.8	1914.7	1930.5	1936.4	1944.3	1946.3	1948.2	1954.2	1950.2
30°	1585.4	1786.5	1851.6	1859.5	1885.1	1889.1	1881.2	1885.1	1895.0	1898.9	1902.9
32.5°	1480.9	1672.2	1794.4	1812.2	1835.8	1824.0	1822.0	1827.9	1843.7	1843.7	1847.7
35°	1338.9	1583.4	1741.2	1757.0	1774.7	1760.9	1768.8	1770.8	1780.6	1786.5	1784.6
37.5°	1183.1	1506.5	1686.0	1697.8	1711.6	1693.8	1705.7	1711.6	1719.5	1715.5	1715.5
40°	1045.2	1386.2	1620.9	1628.8	1640.6	1626.8	1638.6	1642.6	1646.5	1642.6	1640.6
42.5°	942.6	1254.1	1551.9	1561.7	1553.8	1563.7	1567.6	1575.5	1569.6	1561.7	1561.7
45°	863.7	1218.6	1476.9	1488.8	1476.9	1492.7	1498.6	1498.6	1480.9	1476.9	1475.0
47.5°	838.1	1147.7	1402.0	1402.0	1396.1	1415.8	1425.7	1411.9	1394.1	1388.2	1388.2
50°	836.1	1068.8	1299.4	1291.6	1319.2	1342.8	1333.0	1319.2	1305.4	1283.7	1283.7
52.5°	759.2	972.2	1167.4	1196.9	1240.3	1254.1	1238.3	1224.5	1200.8	1191.0	1183.1
55°	704.0	871.6	1047.1	1106.3	1151.6	1169.4	1139.8	1126.0	1090.5	1084.6	1080.7
57.5°	692.2	725.7	936.7	1011.6	1066.9	1064.9	1047.1	1021.5	991.9	986.0	984.0
60°	635.0	524.6	818.4	907.1	964.3	958.4	942.6	919.0	891.3	887.4	883.5
62.5°	575.8	380.6	684.3	784.9	865.7	863.7	849.9	814.4	794.7	784.9	777.0
65°	489.1	319.5	487.1	652.7	769.1	773.0	743.4	717.8	696.1	684.3	682.3
67.5°	372.7	260.3	329.3	544.3	676.4	672.5	635.0	623.2	595.5	589.6	577.8
70°	276.1	173.5	228.8	441.7	585.7	575.8	546.2	532.4	506.8	493.0	485.1
72.5°	228.8	140.0	167.6	343.1	493.0	481.2	455.5	439.8	418.1	406.2	398.3
75°	185.4	147.9	128.2	254.4	400.3	392.4	368.8	353.0	335.2	319.5	321.4
77.5°	136.1	138.0	102.5	187.3	317.5	305.7	291.9	272.1	264.2	248.5	248.5
80°	102.5	108.5	76.9	128.2	228.8	228.8	216.9	203.1	189.3	181.4	181.4
82.5°	69.0	69.0	57.2	80.9	155.8	149.9	142.0	138.0	130.2	126.2	126.2
85°	31.6	39.4	35.5	49.3	84.8	88.7	88.7	84.8	82.8	78.9	80.9
87.5°	9.9	17.7	21.7	27.6	43.4	45.4	47.3	47.3	47.3	49.3	49.3
90°	2.0	3.5	5.1	5.5	8.7	12.9	15.0	13.3	10.0	7.5	7.5
92.5°	7.9	21.3	34.8	38.2	53.6	74.2	84.5	74.0	53.2	37.6	36.1
95°	18.9	43.5	68.1	74.2	131.8	208.6	247.1	220.5	167.3	127.4	122.9
97.5°	32.8	54.5	76.1	81.5	177.6	305.7	369.8	353.0	319.4	294.1	285.5
100°	43.5	63.1	82.7	87.7	194.2	336.3	407.4	408.7	411.2	413.0	402.8
102.5°	52.6	70.9	89.2	93.8	201.9	346.1	418.2	439.6	482.4	514.5	505.7
105°	67.9	83.5	99.1	102.9	207.7	347.2	417.0	465.0	561.0	633.0	628.3
107.5°	83.7	98.2	112.7	116.3	208.6	331.7	393.2	460.2	594.2	694.6	695.8
110°	94.5	107.5	120.6	123.8	207.1	318.0	373.5	448.3	598.1	710.4	715.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.9	117.3	129.8	132.9	207.2	306.1	355.6	432.2	585.4	700.4	707.9
115°	120.7	132.1	143.7	146.5	209.0	292.3	334.0	407.8	555.5	666.2	676.7
117.5°	136.3	146.7	157.2	159.8	213.0	283.8	319.2	385.8	519.0	619.0	630.6
120°	145.3	155.2	165.1	167.5	216.1	280.9	313.3	374.1	495.9	587.2	598.4
122.5°	154.2	164.2	174.1	176.6	220.7	279.3	308.7	363.5	473.2	555.4	566.6
125°	167.9	177.0	186.0	188.2	226.8	278.2	303.8	350.3	443.5	513.3	523.6
127.5°	179.0	188.0	197.2	199.5	232.9	277.4	299.6	339.7	419.6	479.6	488.3
130°	184.9	194.7	204.5	207.0	237.3	277.9	298.1	333.7	404.9	458.2	466.2
132.5°	191.0	200.8	210.6	213.1	241.0	278.2	296.7	328.5	392.2	440.1	447.2
135°	200.1	209.0	218.0	220.3	244.9	277.9	294.3	321.0	374.4	414.4	420.5
137.5°	209.3	218.2	227.1	229.3	250.8	279.5	293.9	316.5	361.6	395.4	400.4
140°	217.0	225.2	233.4	235.5	254.5	279.8	292.5	312.1	351.0	380.2	384.9
142.5°	223.0	230.5	238.1	240.0	257.5	280.9	292.5	309.7	343.9	369.6	373.6
145°	232.1	238.7	245.2	246.9	261.5	280.9	290.6	304.6	332.6	353.6	356.6
147.5°	241.2	247.6	254.0	255.6	267.2	282.8	290.6	301.6	323.6	340.1	342.6
150°	247.1	252.9	258.6	260.1	270.3	283.8	290.6	299.8	318.5	332.4	334.5
152.5°	253.2	257.5	262.0	263.1	272.2	284.5	290.6	298.5	314.3	326.3	327.8
155°	262.3	265.5	268.8	269.6	276.6	285.9	290.6	296.9	309.5	319.0	320.0
157.5°	269.0	272.1	275.3	276.1	280.9	287.3	290.6	295.5	305.3	312.7	313.4
160°	273.5	276.0	278.4	279.0	282.9	288.0	290.6	294.8	303.2	309.5	309.9
162.5°	278.1	279.9	281.7	282.2	285.0	288.7	290.6	294.1	301.2	306.5	306.9
165°	283.1	284.8	286.4	286.8	288.1	289.8	290.6	293.1	298.2	302.0	302.4
167.5°	287.6	288.4	289.2	289.4	290.5	291.9	292.5	294.2	297.6	300.0	300.2
170°	290.6	291.4	292.2	292.3	292.4	292.5	292.5	294.2	297.6	300.0	300.0
172.5°	292.2	292.3	292.5	292.5	292.5	292.5	292.5	293.8	296.5	298.5	298.3
175°	294.3	294.3	294.3	294.3	293.7	292.9	292.5	293.3	295.0	296.3	296.3
177.5°	294.3	294.3	294.3	294.3	293.8	293.2	292.9	293.6	294.9	295.9	295.7
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3
2.5°	2137.5	2131.6	2137.5	2133.6	2135.6	2129.7	2111.9	2106.0	2111.9	2117.8	2117.8
5°	2163.2	2159.2	2163.2	2163.2	2161.2	2157.3	2137.5	2133.6	2137.5	2139.5	2135.6
7.5°	2171.1	2165.2	2171.1	2167.1	2167.1	2163.2	2143.5	2139.5	2141.5	2147.4	2141.5
10°	2171.1	2165.2	2171.1	2169.1	2167.1	2163.2	2143.5	2135.6	2135.6	2141.5	2135.6
12.5°	2161.2	2157.3	2161.2	2157.3	2157.3	2153.3	2133.6	2125.7	2127.7	2129.7	2121.8
15°	2145.4	2139.5	2145.4	2141.5	2143.5	2137.5	2115.9	2108.0	2108.0	2111.9	2098.1
17.5°	2121.8	2113.9	2121.8	2119.8	2117.8	2113.9	2094.2	2086.3	2084.3	2086.3	2076.4
20°	2094.2	2088.2	2094.2	2092.2	2092.2	2084.3	2064.6	2054.7	2054.7	2054.7	2044.9
22.5°	2050.8	2044.9	2050.8	2054.7	2054.7	2052.8	2035.0	2021.2	2017.3	2017.3	2005.4
25°	2001.5	1995.6	2001.5	2001.5	1999.5	2001.5	1995.6	1987.7	1981.8	1975.8	1964.0
27.5°	1954.2	1950.2	1954.2	1950.2	1954.2	1948.2	1946.3	1944.3	1936.4	1930.5	1914.7
30°	1906.8	1902.9	1906.8	1902.9	1898.9	1895.0	1885.1	1881.2	1889.1	1885.1	1859.5
32.5°	1847.7	1843.7	1847.7	1847.7	1843.7	1843.7	1827.9	1822.0	1824.0	1835.8	1812.2
35°	1786.5	1780.6	1786.5	1784.6	1786.5	1780.6	1770.8	1768.8	1760.9	1774.7	1757.0
37.5°	1715.5	1709.6	1715.5	1715.5	1715.5	1719.5	1711.6	1705.7	1693.8	1711.6	1697.8
40°	1642.6	1634.7	1642.6	1640.6	1642.6	1646.5	1642.6	1638.6	1626.8	1640.6	1628.8
42.5°	1559.8	1557.8	1559.8	1561.7	1561.7	1569.6	1575.5	1567.6	1563.7	1553.8	1561.7
45°	1471.0	1467.1	1471.0	1475.0	1476.9	1480.9	1498.6	1498.6	1492.7	1476.9	1488.8
47.5°	1376.4	1366.5	1376.4	1388.2	1388.2	1394.1	1411.9	1425.7	1415.8	1396.1	1402.0
50°	1275.8	1277.8	1275.8	1283.7	1283.7	1305.4	1319.2	1333.0	1342.8	1319.2	1291.6
52.5°	1177.2	1175.3	1177.2	1183.1	1191.0	1200.8	1224.5	1238.3	1254.1	1240.3	1196.9
55°	1078.7	1082.6	1078.7	1080.7	1084.6	1090.5	1126.0	1139.8	1169.4	1151.6	1106.3
57.5°	980.1	974.2	980.1	984.0	986.0	991.9	1021.5	1047.1	1064.9	1066.9	1011.6
60°	865.7	857.8	865.7	883.5	887.4	891.3	919.0	942.6	958.4	964.3	907.1
62.5°	765.1	751.3	765.1	777.0	784.9	794.7	814.4	849.9	863.7	865.7	784.9
65°	658.6	652.7	658.6	682.3	684.3	696.1	717.8	743.4	773.0	769.1	652.7
67.5°	562.0	562.0	562.0	577.8	589.6	595.5	623.2	635.0	672.5	676.4	544.3
70°	473.3	471.3	473.3	485.1	493.0	506.8	532.4	546.2	575.8	585.7	441.7
72.5°	388.5	386.5	388.5	398.3	406.2	418.1	439.8	455.5	481.2	493.0	343.1
75°	313.5	309.6	313.5	321.4	319.5	335.2	353.0	368.8	392.4	400.3	254.4
77.5°	240.6	240.6	240.6	248.5	248.5	264.2	272.1	291.9	305.7	317.5	187.3
80°	179.5	177.5	179.5	181.4	181.4	189.3	203.1	216.9	228.8	228.8	128.2
82.5°	126.2	122.3	126.2	126.2	126.2	130.2	138.0	142.0	149.9	155.8	80.9
85°	78.9	78.9	78.9	80.9	78.9	82.8	84.8	88.7	88.7	84.8	49.3
87.5°	51.3	49.3	51.3	49.3	49.3	47.3	47.3	47.3	45.4	43.4	27.6
90°	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9	8.7	5.5
92.5°	30.1	24.1	30.1	36.1	37.6	53.2	74.0	84.5	74.2	53.6	38.2
95°	104.8	86.7	104.8	122.9	127.4	167.3	220.5	247.1	208.6	131.8	74.2
97.5°	251.0	216.6	251.0	285.5	294.1	319.4	353.0	369.8	305.7	177.6	81.5
100°	361.8	320.7	361.8	402.8	413.0	411.2	408.7	407.4	336.3	194.2	87.7
102.5°	470.6	435.5	470.6	505.7	514.5	482.4	439.6	418.2	346.1	201.9	93.8
105°	609.4	590.5	609.4	628.3	633.0	561.0	465.0	417.0	347.2	207.7	102.9
107.5°	700.4	704.9	700.4	695.8	694.6	594.2	460.2	393.2	331.7	208.6	116.3
110°	735.0	754.7	735.0	715.3	710.4	598.1	448.3	373.5	318.0	207.1	123.8



TEST NUMBER: P933993

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	738.1	768.3	738.1	707.9	700.4	585.4	432.2	355.6	306.1	207.2	132.9
115°	718.6	760.4	718.6	676.7	666.2	555.5	407.8	334.0	292.3	209.0	146.5
117.5°	677.1	723.5	677.1	630.6	619.0	519.0	385.8	319.2	283.8	213.0	159.8
120°	643.6	688.7	643.6	598.4	587.2	495.9	374.1	313.3	280.9	216.1	167.5
122.5°	611.0	655.5	611.0	566.6	555.4	473.2	363.5	308.7	279.3	220.7	176.6
125°	564.6	605.6	564.6	523.6	513.3	443.5	350.3	303.8	278.2	226.8	188.2
127.5°	522.8	557.4	522.8	488.3	479.6	419.6	339.7	299.6	277.4	232.9	199.5
130°	498.1	530.1	498.1	466.2	458.2	404.9	333.7	298.1	277.9	237.3	207.0
132.5°	475.8	504.4	475.8	447.2	440.1	392.2	328.5	296.7	278.2	241.0	213.1
135°	445.2	469.8	445.2	420.5	414.4	374.4	321.0	294.3	277.9	244.9	220.3
137.5°	420.6	440.8	420.6	400.4	395.4	361.6	316.5	293.9	279.5	250.8	229.3
140°	403.8	422.7	403.8	384.9	380.2	351.0	312.1	292.5	279.8	254.5	235.5
142.5°	389.9	406.0	389.9	373.6	369.6	343.9	309.7	292.5	280.9	257.5	240.0
145°	369.0	381.2	369.0	356.6	353.6	332.6	304.6	290.6	280.9	261.5	246.9
147.5°	352.8	363.0	352.8	342.6	340.1	323.6	301.6	290.6	282.8	267.2	255.6
150°	342.7	351.0	342.7	334.5	332.4	318.5	299.8	290.6	283.8	270.3	260.1
152.5°	334.1	340.3	334.1	327.8	326.3	314.3	298.5	290.6	284.5	272.2	263.1
155°	324.1	328.2	324.1	320.0	319.0	309.5	296.9	290.6	285.9	276.6	269.6
157.5°	316.3	319.2	316.3	313.4	312.7	305.3	295.5	290.6	287.3	280.9	276.1
160°	311.6	313.3	311.6	309.9	309.5	303.2	294.8	290.6	288.0	282.9	279.0
162.5°	308.5	310.1	308.5	306.9	306.5	301.2	294.1	290.6	288.7	285.0	282.2
165°	304.1	305.8	304.1	302.4	302.0	298.2	293.1	290.6	289.8	288.1	286.8
167.5°	300.9	301.6	300.9	300.2	300.0	297.6	294.2	292.5	291.9	290.5	289.4
170°	300.0	300.0	300.0	300.0	300.0	297.6	294.2	292.5	292.5	292.4	292.3
172.5°	297.7	297.1	297.7	298.3	298.5	296.5	293.8	292.5	292.5	292.5	292.5
175°	296.3	296.3	296.3	296.3	296.3	295.0	293.3	292.5	292.9	293.7	294.3
177.5°	295.0	294.3	295.0	295.7	295.9	294.9	293.6	292.9	293.2	293.8	294.3
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933993

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3
2.5°	2113.9	2102.1	2102.1	2082.3	2074.4	2068.5	2058.7	2029.1	2021.2	2013.3	2025.1
5°	2131.6	2109.9	2094.2	2058.7	2029.1	2017.3	1979.8	1908.8	1861.5	1826.0	1806.3
7.5°	2135.6	2108.0	2078.4	2023.2	1952.2	1920.6	1806.3	1676.1	1640.6	1609.1	1589.3
10°	2131.6	2100.1	2058.7	1975.8	1808.2	1753.0	1638.6	1553.8	1532.1	1526.2	1532.1
12.5°	2117.8	2088.2	2031.1	1893.0	1658.4	1620.9	1553.8	1504.5	1500.6	1510.5	1563.7
15°	2094.2	2066.6	1999.5	1782.6	1575.5	1547.9	1500.6	1482.8	1504.5	1573.6	1733.3
17.5°	2070.5	2038.9	1956.1	1674.1	1512.4	1492.7	1459.2	1494.7	1616.9	1709.6	1762.9
20°	2038.9	2001.5	1906.8	1595.2	1467.1	1449.3	1433.5	1593.3	1686.0	1719.5	1749.1
22.5°	2001.5	1962.0	1839.8	1540.0	1419.7	1405.9	1415.8	1648.5	1686.0	1709.6	1735.3
25°	1952.2	1918.7	1760.9	1496.6	1382.3	1366.5	1404.0	1642.6	1664.3	1670.2	1721.5
27.5°	1906.8	1863.4	1678.1	1457.2	1336.9	1331.0	1413.8	1616.9	1632.7	1638.6	1693.8
30°	1851.6	1786.5	1585.4	1415.8	1289.6	1287.6	1415.8	1585.4	1581.4	1597.2	1652.4
32.5°	1794.4	1672.2	1480.9	1364.5	1244.2	1242.3	1402.0	1538.1	1534.1	1555.8	1597.2
35°	1741.2	1583.4	1338.9	1305.4	1187.0	1189.0	1368.5	1482.8	1484.8	1504.5	1530.2
37.5°	1686.0	1506.5	1183.1	1240.3	1131.9	1131.9	1323.1	1431.6	1427.6	1433.5	1469.0
40°	1620.9	1386.2	1045.2	1155.6	1080.7	1074.7	1267.9	1376.4	1362.6	1360.6	1409.9
42.5°	1551.9	1254.1	942.6	1043.2	1021.5	1013.6	1200.8	1309.3	1283.7	1289.6	1352.7
45°	1476.9	1218.6	863.7	881.5	960.4	954.4	1128.0	1232.4	1214.7	1230.4	1295.5
47.5°	1402.0	1147.7	838.1	731.6	895.3	893.3	1047.1	1157.6	1147.7	1163.5	1232.4
50°	1299.4	1068.8	836.1	627.1	822.3	830.2	950.5	1084.6	1084.6	1098.4	1171.4
52.5°	1167.4	972.2	759.2	567.9	737.5	761.2	865.7	1021.5	1025.4	1039.2	1104.3
55°	1047.1	871.6	704.0	522.6	637.0	688.2	782.9	956.4	964.3	978.1	1037.3
57.5°	936.7	725.7	692.2	469.3	544.3	593.6	709.9	893.3	897.3	909.1	966.3
60°	818.4	524.6	635.0	412.1	463.4	500.9	642.9	818.4	832.2	840.1	889.4
62.5°	684.3	380.6	575.8	372.7	424.0	431.9	587.7	747.4	765.1	771.1	800.6
65°	487.1	319.5	489.1	339.2	382.6	384.5	528.5	674.4	690.2	700.1	721.8
67.5°	329.3	260.3	372.7	307.6	351.0	353.0	471.3	589.6	611.3	619.2	633.0
70°	228.8	173.5	276.1	274.1	315.5	319.5	410.2	512.7	532.4	538.4	546.2
72.5°	167.6	140.0	228.8	246.5	278.1	282.0	347.1	426.0	445.7	451.6	455.5
75°	128.2	147.9	185.4	214.9	236.6	238.6	284.0	347.1	360.9	364.8	366.8
77.5°	102.5	138.0	136.1	173.5	193.3	189.3	222.8	268.2	280.0	280.0	280.0
80°	76.9	108.5	102.5	124.2	142.0	138.0	159.7	191.3	195.2	199.2	197.2
82.5°	57.2	69.0	69.0	78.9	94.7	90.7	106.5	124.2	124.2	124.2	128.2
85°	35.5	39.4	31.6	41.4	53.2	51.3	59.2	67.0	69.0	69.0	65.1
87.5°	21.7	17.7	9.9	15.8	23.7	23.7	27.6	29.6	27.6	27.6	27.6
90°	5.1	3.5	2.0	3.5	5.1	5.5	8.7	12.9	15.0	13.3	10.0
92.5°	34.8	21.3	7.9	21.3	34.8	38.2	53.6	74.2	84.5	74.0	53.2
95°	68.1	43.5	18.9	43.5	68.1	74.2	131.8	208.6	247.1	220.5	167.3
97.5°	76.1	54.5	32.8	54.5	76.1	81.5	177.6	305.7	369.8	353.0	319.4
100°	82.7	63.1	43.5	63.1	82.7	87.7	194.2	336.3	407.4	408.7	411.2
102.5°	89.2	70.9	52.6	70.9	89.2	93.8	201.9	346.1	418.2	439.6	482.4
105°	99.1	83.5	67.9	83.5	99.1	102.9	207.7	347.2	417.0	465.0	561.0
107.5°	112.7	98.2	83.7	98.2	112.7	116.3	208.6	331.7	393.2	460.2	594.2
110°	120.6	107.5	94.5	107.5	120.6	123.8	207.1	318.0	373.5	448.3	598.1



TEST NUMBER: P933993

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.8	117.3	104.9	117.3	129.8	132.9	207.2	306.1	355.6	432.2	585.4
115°	143.7	132.1	120.7	132.1	143.7	146.5	209.0	292.3	334.0	407.8	555.5
117.5°	157.2	146.7	136.3	146.7	157.2	159.8	213.0	283.8	319.2	385.8	519.0
120°	165.1	155.2	145.3	155.2	165.1	167.5	216.1	280.9	313.3	374.1	495.9
122.5°	174.1	164.2	154.2	164.2	174.1	176.6	220.7	279.3	308.7	363.5	473.2
125°	186.0	177.0	167.9	177.0	186.0	188.2	226.8	278.2	303.8	350.3	443.5
127.5°	197.2	188.0	179.0	188.0	197.2	199.5	232.9	277.4	299.6	339.7	419.6
130°	204.5	194.7	184.9	194.7	204.5	207.0	237.3	277.9	298.1	333.7	404.9
132.5°	210.6	200.8	191.0	200.8	210.6	213.1	241.0	278.2	296.7	328.5	392.2
135°	218.0	209.0	200.1	209.0	218.0	220.3	244.9	277.9	294.3	321.0	374.4
137.5°	227.1	218.2	209.3	218.2	227.1	229.3	250.8	279.5	293.9	316.5	361.6
140°	233.4	225.2	217.0	225.2	233.4	235.5	254.5	279.8	292.5	312.1	351.0
142.5°	238.1	230.5	223.0	230.5	238.1	240.0	257.5	280.9	292.5	309.7	343.9
145°	245.2	238.7	232.1	238.7	245.2	246.9	261.5	280.9	290.6	304.6	332.6
147.5°	254.0	247.6	241.2	247.6	254.0	255.6	267.2	282.8	290.6	301.6	323.6
150°	258.6	252.9	247.1	252.9	258.6	260.1	270.3	283.8	290.6	299.8	318.5
152.5°	262.0	257.5	253.2	257.5	262.0	263.1	272.2	284.5	290.6	298.5	314.3
155°	268.8	265.5	262.3	265.5	268.8	269.6	276.6	285.9	290.6	296.9	309.5
157.5°	275.3	272.1	269.0	272.1	275.3	276.1	280.9	287.3	290.6	295.5	305.3
160°	278.4	276.0	273.5	276.0	278.4	279.0	282.9	288.0	290.6	294.8	303.2
162.5°	281.7	279.9	278.1	279.9	281.7	282.2	285.0	288.7	290.6	294.1	301.2
165°	286.4	284.8	283.1	284.8	286.4	286.8	288.1	289.8	290.6	293.1	298.2
167.5°	289.2	288.4	287.6	288.4	289.2	289.4	290.5	291.9	292.5	294.2	297.6
170°	292.2	291.4	290.6	291.4	292.2	292.3	292.4	292.5	292.5	294.2	297.6
172.5°	292.5	292.3	292.2	292.3	292.5	292.5	292.5	292.5	292.5	293.8	296.5
175°	294.3	294.3	294.3	294.3	294.3	294.3	293.7	292.9	292.5	293.3	295.0
177.5°	294.3	294.3	294.3	294.3	294.3	294.3	293.8	293.2	292.9	293.6	294.9
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933993

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3	2084.3
2.5°	2011.3	2005.4	2013.3	1991.6	2013.3	2005.4	2011.3	2025.1	2013.3	2021.2	2029.1
5°	1764.8	1755.0	1723.4	1697.8	1723.4	1755.0	1764.8	1806.3	1826.0	1861.5	1908.8
7.5°	1577.5	1569.6	1561.7	1545.9	1561.7	1569.6	1577.5	1589.3	1609.1	1640.6	1676.1
10°	1536.1	1538.1	1549.9	1547.9	1549.9	1538.1	1536.1	1532.1	1526.2	1532.1	1553.8
12.5°	1642.6	1660.3	1725.4	1721.5	1725.4	1660.3	1642.6	1563.7	1510.5	1500.6	1504.5
15°	1764.8	1770.8	1784.6	1786.5	1784.6	1770.8	1764.8	1733.3	1573.6	1504.5	1482.8
17.5°	1776.7	1778.6	1788.5	1788.5	1788.5	1778.6	1776.7	1762.9	1709.6	1616.9	1494.7
20°	1766.8	1770.8	1790.5	1794.4	1790.5	1770.8	1766.8	1749.1	1719.5	1686.0	1593.3
22.5°	1762.9	1770.8	1786.5	1784.6	1786.5	1770.8	1762.9	1735.3	1709.6	1686.0	1648.5
25°	1743.1	1743.1	1745.1	1747.1	1745.1	1743.1	1743.1	1721.5	1670.2	1664.3	1642.6
27.5°	1701.7	1705.7	1717.5	1715.5	1717.5	1705.7	1701.7	1693.8	1638.6	1632.7	1616.9
30°	1664.3	1660.3	1650.5	1642.6	1650.5	1660.3	1664.3	1652.4	1597.2	1581.4	1585.4
32.5°	1601.2	1591.3	1581.4	1575.5	1581.4	1591.3	1601.2	1597.2	1555.8	1534.1	1538.1
35°	1526.2	1528.2	1526.2	1520.3	1526.2	1528.2	1526.2	1530.2	1504.5	1484.8	1482.8
37.5°	1473.0	1476.9	1475.0	1467.1	1475.0	1476.9	1473.0	1469.0	1433.5	1427.6	1431.6
40°	1417.8	1419.7	1417.8	1411.9	1417.8	1419.7	1417.8	1409.9	1360.6	1362.6	1376.4
42.5°	1364.5	1362.6	1356.6	1352.7	1356.6	1362.6	1364.5	1352.7	1289.6	1283.7	1309.3
45°	1303.4	1305.4	1293.5	1287.6	1293.5	1305.4	1303.4	1295.5	1230.4	1214.7	1232.4
47.5°	1242.3	1242.3	1232.4	1226.5	1232.4	1242.3	1242.3	1232.4	1163.5	1147.7	1157.6
50°	1177.2	1175.3	1161.5	1159.5	1161.5	1175.3	1177.2	1171.4	1098.4	1084.6	1084.6
52.5°	1102.3	1102.3	1104.3	1108.3	1104.3	1102.3	1102.3	1104.3	1039.2	1025.4	1021.5
55°	1037.3	1039.2	1053.0	1057.0	1053.0	1039.2	1037.3	1037.3	978.1	964.3	956.4
57.5°	970.2	970.2	980.1	980.1	980.1	970.2	970.2	966.3	909.1	897.3	893.3
60°	893.3	897.3	905.1	903.2	905.1	897.3	893.3	889.4	840.1	832.2	818.4
62.5°	812.5	816.4	818.4	814.4	818.4	816.4	812.5	800.6	771.1	765.1	747.4
65°	727.7	731.6	733.6	729.6	733.6	731.6	727.7	721.8	700.1	690.2	674.4
67.5°	640.9	638.9	637.0	644.8	637.0	638.9	640.9	633.0	619.2	611.3	589.6
70°	552.2	552.2	550.2	554.1	550.2	552.2	552.2	546.2	538.4	532.4	512.7
72.5°	457.5	455.5	463.4	457.5	463.4	455.5	457.5	455.5	451.6	445.7	426.0
75°	364.8	368.8	364.8	370.7	364.8	368.8	364.8	366.8	364.8	360.9	347.1
77.5°	278.1	282.0	278.1	278.1	278.1	282.0	278.1	280.0	280.0	280.0	268.2
80°	197.2	195.2	195.2	193.3	195.2	195.2	197.2	197.2	199.2	195.2	191.3
82.5°	126.2	124.2	124.2	128.2	124.2	124.2	126.2	128.2	124.2	124.2	124.2
85°	69.0	71.0	67.0	67.0	67.0	71.0	69.0	65.1	69.0	69.0	67.0
87.5°	25.6	23.7	23.7	23.7	23.7	23.7	25.6	27.6	27.6	27.6	29.6
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9
92.5°	37.6	36.1	30.1	24.1	30.1	36.1	37.6	53.2	74.0	84.5	74.2
95°	127.4	122.9	104.8	86.7	104.8	122.9	127.4	167.3	220.5	247.1	208.6
97.5°	294.1	285.5	251.0	216.6	251.0	285.5	294.1	319.4	353.0	369.8	305.7
100°	413.0	402.8	361.8	320.7	361.8	402.8	413.0	411.2	408.7	407.4	336.3
102.5°	514.5	505.7	470.6	435.5	470.6	505.7	514.5	482.4	439.6	418.2	346.1
105°	633.0	628.3	609.4	590.5	609.4	628.3	633.0	561.0	465.0	417.0	347.2
107.5°	694.6	695.8	700.4	704.9	700.4	695.8	694.6	594.2	460.2	393.2	331.7
110°	710.4	715.3	735.0	754.7	735.0	715.3	710.4	598.1	448.3	373.5	318.0



TEST NUMBER: P933993

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	700.4	707.9	738.1	768.3	738.1	707.9	700.4	585.4	432.2	355.6	306.1
115°	666.2	676.7	718.6	760.4	718.6	676.7	666.2	555.5	407.8	334.0	292.3
117.5°	619.0	630.6	677.1	723.5	677.1	630.6	619.0	519.0	385.8	319.2	283.8
120°	587.2	598.4	643.6	688.7	643.6	598.4	587.2	495.9	374.1	313.3	280.9
122.5°	555.4	566.6	611.0	655.5	611.0	566.6	555.4	473.2	363.5	308.7	279.3
125°	513.3	523.6	564.6	605.6	564.6	523.6	513.3	443.5	350.3	303.8	278.2
127.5°	479.6	488.3	522.8	557.4	522.8	488.3	479.6	419.6	339.7	299.6	277.4
130°	458.2	466.2	498.1	530.1	498.1	466.2	458.2	404.9	333.7	298.1	277.9
132.5°	440.1	447.2	475.8	504.4	475.8	447.2	440.1	392.2	328.5	296.7	278.2
135°	414.4	420.5	445.2	469.8	445.2	420.5	414.4	374.4	321.0	294.3	277.9
137.5°	395.4	400.4	420.6	440.8	420.6	400.4	395.4	361.6	316.5	293.9	279.5
140°	380.2	384.9	403.8	422.7	403.8	384.9	380.2	351.0	312.1	292.5	279.8
142.5°	369.6	373.6	389.9	406.0	389.9	373.6	369.6	343.9	309.7	292.5	280.9
145°	353.6	356.6	369.0	381.2	369.0	356.6	353.6	332.6	304.6	290.6	280.9
147.5°	340.1	342.6	352.8	363.0	352.8	342.6	340.1	323.6	301.6	290.6	282.8
150°	332.4	334.5	342.7	351.0	342.7	334.5	332.4	318.5	299.8	290.6	283.8
152.5°	326.3	327.8	334.1	340.3	334.1	327.8	326.3	314.3	298.5	290.6	284.5
155°	319.0	320.0	324.1	328.2	324.1	320.0	319.0	309.5	296.9	290.6	285.9
157.5°	312.7	313.4	316.3	319.2	316.3	313.4	312.7	305.3	295.5	290.6	287.3
160°	309.5	309.9	311.6	313.3	311.6	309.9	309.5	303.2	294.8	290.6	288.0
162.5°	306.5	306.9	308.5	310.1	308.5	306.9	306.5	301.2	294.1	290.6	288.7
165°	302.0	302.4	304.1	305.8	304.1	302.4	302.0	298.2	293.1	290.6	289.8
167.5°	300.0	300.2	300.9	301.6	300.9	300.2	300.0	297.6	294.2	292.5	291.9
170°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	297.6	294.2	292.5	292.5
172.5°	298.5	298.3	297.7	297.1	297.7	298.3	298.5	296.5	293.8	292.5	292.5
175°	296.3	296.3	296.3	296.3	296.3	296.3	296.3	295.0	293.3	292.5	292.9
177.5°	295.9	295.7	295.0	294.3	295.0	295.7	295.9	294.9	293.6	292.9	293.2
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933993

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2084.3	2084.3	2084.3	2084.3	2084.3
2.5°	2058.7	2068.5	2074.4	2082.3	2102.1
5°	1979.8	2017.3	2029.1	2058.7	2094.2
7.5°	1806.3	1920.6	1952.2	2023.2	2078.4
10°	1638.6	1753.0	1808.2	1975.8	2058.7
12.5°	1553.8	1620.9	1658.4	1893.0	2031.1
15°	1500.6	1547.9	1575.5	1782.6	1999.5
17.5°	1459.2	1492.7	1512.4	1674.1	1956.1
20°	1433.5	1449.3	1467.1	1595.2	1906.8
22.5°	1415.8	1405.9	1419.7	1540.0	1839.8
25°	1404.0	1366.5	1382.3	1496.6	1760.9
27.5°	1413.8	1331.0	1336.9	1457.2	1678.1
30°	1415.8	1287.6	1289.6	1415.8	1585.4
32.5°	1402.0	1242.3	1244.2	1364.5	1480.9
35°	1368.5	1189.0	1187.0	1305.4	1338.9
37.5°	1323.1	1131.9	1131.9	1240.3	1183.1
40°	1267.9	1074.7	1080.7	1155.6	1045.2
42.5°	1200.8	1013.6	1021.5	1043.2	942.6
45°	1128.0	954.4	960.4	881.5	863.7
47.5°	1047.1	893.3	895.3	731.6	838.1
50°	950.5	830.2	822.3	627.1	836.1
52.5°	865.7	761.2	737.5	567.9	759.2
55°	782.9	688.2	637.0	522.6	704.0
57.5°	709.9	593.6	544.3	469.3	692.2
60°	642.9	500.9	463.4	412.1	635.0
62.5°	587.7	431.9	424.0	372.7	575.8
65°	528.5	384.5	382.6	339.2	489.1
67.5°	471.3	353.0	351.0	307.6	372.7
70°	410.2	319.5	315.5	274.1	276.1
72.5°	347.1	282.0	278.1	246.5	228.8
75°	284.0	238.6	236.6	214.9	185.4
77.5°	222.8	189.3	193.3	173.5	136.1
80°	159.7	138.0	142.0	124.2	102.5
82.5°	106.5	90.7	94.7	78.9	69.0
85°	59.2	51.3	53.2	41.4	31.6
87.5°	27.6	23.7	23.7	15.8	9.9
90°	8.7	5.5	5.1	3.5	2.0
92.5°	53.6	38.2	34.8	21.3	7.9
95°	131.8	74.2	68.1	43.5	18.9
97.5°	177.6	81.5	76.1	54.5	32.8
100°	194.2	87.7	82.7	63.1	43.5
102.5°	201.9	93.8	89.2	70.9	52.6
105°	207.7	102.9	99.1	83.5	67.9
107.5°	208.6	116.3	112.7	98.2	83.7
110°	207.1	123.8	120.6	107.5	94.5



TEST NUMBER: P933993

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	207.2	132.9	129.8	117.3	104.9
115°	209.0	146.5	143.7	132.1	120.7
117.5°	213.0	159.8	157.2	146.7	136.3
120°	216.1	167.5	165.1	155.2	145.3
122.5°	220.7	176.6	174.1	164.2	154.2
125°	226.8	188.2	186.0	177.0	167.9
127.5°	232.9	199.5	197.2	188.0	179.0
130°	237.3	207.0	204.5	194.7	184.9
132.5°	241.0	213.1	210.6	200.8	191.0
135°	244.9	220.3	218.0	209.0	200.1
137.5°	250.8	229.3	227.1	218.2	209.3
140°	254.5	235.5	233.4	225.2	217.0
142.5°	257.5	240.0	238.1	230.5	223.0
145°	261.5	246.9	245.2	238.7	232.1
147.5°	267.2	255.6	254.0	247.6	241.2
150°	270.3	260.1	258.6	252.9	247.1
152.5°	272.2	263.1	262.0	257.5	253.2
155°	276.6	269.6	268.8	265.5	262.3
157.5°	280.9	276.1	275.3	272.1	269.0
160°	282.9	279.0	278.4	276.0	273.5
162.5°	285.0	282.2	281.7	279.9	278.1
165°	288.1	286.8	286.4	284.8	283.1
167.5°	290.5	289.4	289.2	288.4	287.6
170°	292.4	292.3	292.2	291.4	290.6
172.5°	292.5	292.5	292.5	292.3	292.2
175°	293.7	294.3	294.3	294.3	294.3
177.5°	293.8	294.3	294.3	294.3	294.3
180°	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933993
 CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-3000K

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	14.66	15.78	15.38	16.52	17.41	17.49	18.62	18.21	19.36	20.24
	3H	15.15	16.17	15.89	16.92	17.83	18.86	19.87	19.60	20.62	21.54
	4H	15.36	16.31	16.11	17.07	18.00	19.32	20.27	20.07	21.03	21.96
	6H	15.49	16.37	16.25	17.14	18.08	19.62	20.50	20.39	21.27	22.21
	8H	15.50	16.34	16.27	17.13	18.07	19.70	20.54	20.48	21.33	22.27
	12H	15.48	16.28	16.26	17.06	18.03	19.75	20.55	20.53	21.34	22.31
4H	2H	15.72	16.68	16.48	17.44	18.36	17.93	18.89	18.69	19.65	20.58
	3H	16.77	17.57	17.54	18.37	19.31	19.47	20.26	20.24	21.06	22.00
	4H	17.06	17.78	17.85	18.58	19.55	20.01	20.73	20.79	21.53	22.50
	6H	17.20	17.83	18.00	18.65	19.63	20.39	21.02	21.19	21.84	22.82
	8H	17.21	17.80	18.02	18.61	19.61	20.50	21.09	21.31	21.91	22.90
	12H	17.19	17.72	18.02	18.56	19.55	20.57	21.10	21.40	21.94	22.94
8H	4H	17.54	18.12	18.34	18.94	19.93	20.15	20.74	20.96	21.55	22.55
	6H	17.81	18.29	18.64	19.15	20.15	20.60	21.09	21.44	21.95	22.94
	8H	17.85	18.29	18.70	19.14	20.15	20.76	21.19	21.60	22.05	23.05
	12H	17.85	18.23	18.70	19.08	20.14	20.87	21.25	21.72	22.10	23.16
12H	4H	17.56	18.08	18.38	18.92	19.92	20.13	20.66	20.96	21.50	22.49
	6H	17.87	18.30	18.72	19.16	20.17	20.60	21.03	21.45	21.89	22.90
	8H	17.95	18.33	18.80	19.18	20.24	20.78	21.16	21.63	22.00	23.07