

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: P933856

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933856
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-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

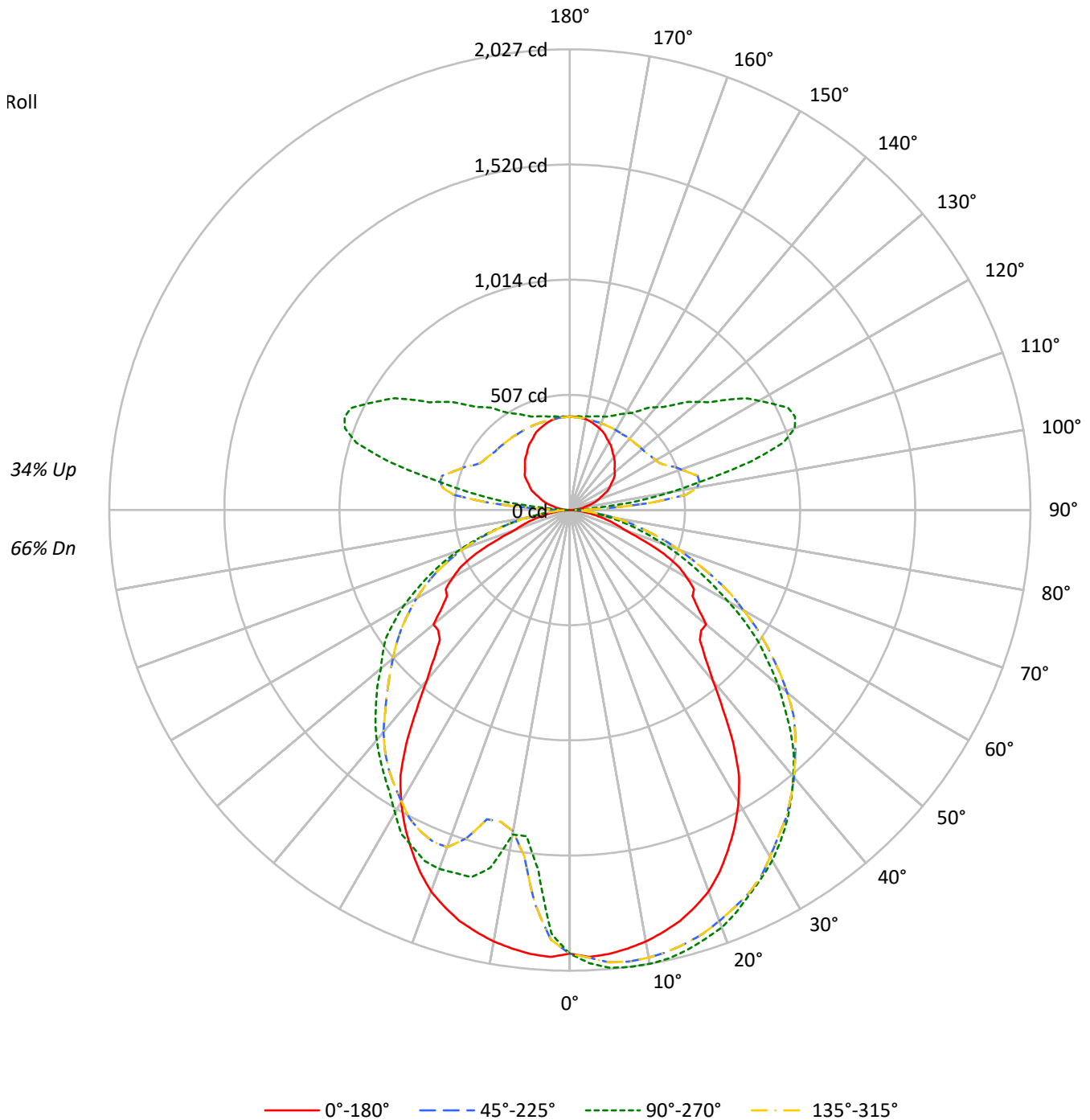
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7725.2 lumens
Efficiency: N/A
Efficacy: 117.0 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





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6036	6036	6036	6036
5°	6084	6094	6084	4791
10°	6045	6002	6045	4291
15°	5982	5872	5982	4904
20°	5859	5718	5859	4914
25°	5605	5494	5605	4810
30°	5277	5307	5277	4581
35°	4706	5071	4706	4330
40°	3923	4793	3923	4140
45°	3508	4468	3508	3922
50°	3730	4080	3730	3702
55°	3513	3663	3513	3576
60°	3626	3111	3626	3275
65°	3292	2572	3292	2874
70°	2285	2049	2285	2410
75°	2011	1515	2011	1814
80°	1633	1002	1633	1091
85°	956	531	956	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	2.3
10°-20°	500.2	6.5
20°-30°	773.2	10.0
30°-40°	923.0	11.9
40°-50°	928.4	12.0
50°-60°	807.9	10.5
60°-70°	572.8	7.4
70°-80°	303.0	3.9
80°-90°	77.0	1.0
90°-100°	200.3	2.6
100°-110°	526.5	6.8
110°-120°	546.0	7.1
120°-130°	437.9	5.7
130°-140°	343.6	4.4
140°-150°	263.7	3.4
150°-160°	189.9	2.5
160°-170°	116.2	1.5
170°-180°	39.3	0.5
0°-30°	1449.5	18.8
0°-40°	2372.6	30.7
0°-60°	4108.9	53.2
0°-90°	5061.8	65.5
90°-120°	1272.7	16.5
90°-150°	2318.0	30.0
90°-180°	2663.0	34.5
0°-180°	7725.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1952	1952	1952	1952	1952	
5°	1961	2022	1961	1590	1961	186
15°	1872	2003	1872	1673	1872	527
25°	1649	1868	1649	1636	1649	757
35°	1254	1667	1254	1424	1254	776
45°	809	1374	809	1206	809	648
55°	659	1014	659	990	659	606
65°	458	611	458	683	458	438
75°	174	290	174	347	174	182
85°	30	74	30	63	30	40
90°	3	10	3	10	3	4
95°	26	121	26	121	26	29
105°	95	824	95	824	95	101
115°	168	1062	168	1062	168	166
125°	234	845	234	845	234	208
135°	279	656	279	656	279	216
145°	324	532	324	532	324	203
155°	366	458	366	458	366	168
165°	395	427	395	427	395	112
175°	411	414	411	414	411	39
180°	411	411	411	411	411	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1968.2	1968.2	1979.3	1983.0	1983.0	1977.4	1971.9	1977.4	1994.1	1999.6	1997.7
5°	1960.8	1975.6	1995.9	1999.6	2003.3	2001.5	1997.7	2001.5	2019.9	2023.6	2025.4
7.5°	1946.1	1973.8	1999.6	2005.2	2010.7	2005.2	2003.3	2007.0	2025.4	2029.1	2029.1
10°	1927.6	1966.3	1995.9	1999.6	2005.2	1999.6	1999.6	2007.0	2025.4	2029.1	2031.0
12.5°	1901.7	1955.3	1983.0	1986.7	1994.1	1992.2	1990.4	1997.7	2016.3	2019.9	2019.9
15°	1872.2	1935.0	1960.8	1964.5	1977.4	1973.8	1973.8	1981.1	2001.5	2007.0	2005.2
17.5°	1831.6	1909.2	1938.7	1944.2	1953.5	1951.6	1953.5	1960.8	1979.3	1983.0	1984.9
20°	1785.5	1874.0	1909.2	1914.7	1923.9	1923.9	1923.9	1933.1	1951.6	1959.0	1959.0
22.5°	1722.7	1837.1	1874.0	1877.8	1888.8	1888.8	1892.6	1905.4	1922.0	1923.9	1923.9
25°	1648.8	1796.5	1827.9	1839.0	1850.1	1855.6	1861.2	1868.5	1874.0	1872.2	1874.0
27.5°	1571.3	1744.8	1785.5	1792.8	1807.6	1813.1	1820.5	1822.4	1824.2	1829.7	1826.0
30°	1484.5	1672.8	1733.7	1741.1	1765.1	1768.9	1761.4	1765.1	1774.4	1778.0	1781.7
32.5°	1386.6	1565.7	1680.2	1696.8	1718.9	1707.9	1706.0	1711.6	1726.4	1726.4	1730.0
35°	1253.7	1482.6	1630.4	1645.2	1661.8	1648.8	1656.2	1658.0	1667.3	1672.8	1670.9
37.5°	1107.8	1410.6	1578.6	1589.7	1602.7	1586.1	1597.1	1602.7	1610.0	1606.3	1606.3
40°	978.5	1298.0	1517.7	1525.1	1536.1	1523.3	1534.3	1538.1	1541.7	1538.1	1536.1
42.5°	882.5	1174.3	1453.1	1462.3	1454.9	1464.2	1467.9	1475.3	1469.7	1462.3	1462.3
45°	808.7	1141.1	1383.0	1394.0	1383.0	1397.7	1403.2	1403.2	1386.6	1383.0	1381.0
47.5°	784.7	1074.6	1312.8	1312.8	1307.3	1325.7	1334.9	1322.0	1305.4	1299.8	1299.8
50°	782.9	1000.7	1216.8	1209.3	1235.2	1257.3	1248.2	1235.2	1222.3	1202.0	1202.0
52.5°	710.8	910.3	1093.1	1120.8	1161.3	1174.3	1159.5	1146.6	1124.5	1115.2	1107.8
55°	659.2	816.1	980.4	1035.8	1078.3	1094.9	1067.2	1054.2	1021.0	1015.5	1011.9
57.5°	648.1	679.5	877.0	947.2	998.9	997.1	980.4	956.4	928.7	923.2	921.4
60°	594.6	491.2	766.3	849.3	902.8	897.3	882.5	860.4	834.6	830.9	827.2
62.5°	539.1	356.3	640.6	734.9	810.5	808.7	795.8	762.5	744.1	734.9	727.5
65°	457.9	299.1	456.1	611.2	720.1	723.8	696.1	672.1	651.7	640.6	638.8
67.5°	349.0	243.7	308.3	509.6	633.3	629.6	594.6	583.5	557.6	552.1	541.0
70°	258.5	162.5	214.2	413.6	548.4	539.1	511.4	498.5	474.5	461.6	454.2
72.5°	214.2	131.0	156.9	321.3	461.6	450.5	426.5	411.8	391.4	380.4	373.0
75°	173.5	138.5	120.0	238.1	374.8	367.4	345.2	330.5	313.9	299.1	300.9
77.5°	127.4	129.2	96.0	175.4	297.2	286.2	273.3	254.8	247.4	232.6	232.6
80°	96.0	101.6	72.0	120.0	214.2	214.2	203.1	190.1	177.2	169.9	169.9
82.5°	64.6	64.6	53.5	75.7	145.8	140.3	133.0	129.2	121.9	118.2	118.2
85°	29.5	36.9	33.2	46.2	79.4	83.1	83.1	79.4	77.5	73.9	75.7
87.5°	9.3	16.6	20.3	25.9	40.7	42.5	44.3	44.3	44.3	46.2	46.2
90°	2.8	5.0	7.2	7.7	12.1	18.0	20.9	18.6	13.9	10.5	10.5
92.5°	11.0	29.7	48.5	53.2	74.8	103.6	118.0	103.4	74.2	52.4	50.3
95°	26.4	60.8	95.1	103.7	184.1	291.4	345.0	307.8	233.6	177.8	171.5
97.5°	45.8	76.1	106.4	113.9	248.0	426.8	516.2	492.7	445.8	410.6	398.6
100°	60.7	88.1	115.5	122.4	271.3	469.7	568.9	570.6	574.0	576.6	562.3
102.5°	73.3	98.9	124.5	131.0	281.9	483.2	583.7	613.7	673.4	718.3	706.0
105°	94.9	116.5	138.2	143.6	289.8	484.6	582.1	649.1	783.2	883.7	877.1
107.5°	116.9	137.1	157.4	162.4	291.3	463.1	549.0	642.5	829.5	969.8	971.4
110°	131.8	150.0	168.3	172.9	289.1	444.0	521.4	626.0	835.0	991.8	998.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.5	163.8	181.2	185.6	289.2	427.3	496.4	603.4	817.3	977.8	988.4
115°	168.5	184.5	200.6	204.6	291.8	408.1	466.3	569.3	775.5	930.1	944.7
117.5°	190.2	204.8	219.4	223.1	297.2	396.2	445.6	538.7	724.7	864.2	880.4
120°	202.9	216.7	230.4	233.8	301.6	392.0	437.3	522.3	692.3	819.8	835.6
122.5°	215.4	229.2	243.0	246.5	308.0	389.9	430.9	507.5	660.6	775.4	790.9
125°	234.4	247.0	259.7	262.8	316.6	388.3	424.1	489.0	619.1	716.6	730.9
127.5°	249.8	262.6	275.3	278.5	325.1	387.3	418.3	474.1	585.8	669.5	681.6
130°	258.1	271.8	285.6	289.0	331.4	387.8	416.1	465.8	565.2	639.7	650.9
132.5°	266.7	280.4	294.1	297.5	336.4	388.3	414.2	458.7	547.7	614.4	624.4
135°	279.3	291.8	304.3	307.4	341.9	387.9	410.9	448.1	522.6	578.5	587.1
137.5°	292.3	304.7	317.0	320.1	350.2	390.3	410.3	441.8	504.7	552.0	559.1
140°	303.0	314.4	325.9	328.7	355.2	390.7	408.4	435.5	490.0	530.8	537.4
142.5°	311.3	321.8	332.4	335.1	359.5	392.0	408.4	432.2	480.0	515.9	521.6
145°	324.0	333.2	342.4	344.7	365.0	392.0	405.6	425.2	464.3	493.5	497.8
147.5°	336.7	345.6	354.6	356.8	373.0	394.8	405.6	421.0	451.8	474.8	478.4
150°	345.0	353.0	361.1	363.1	377.3	396.2	405.6	418.7	444.6	464.1	466.9
152.5°	353.5	359.6	365.7	367.3	380.0	397.1	405.6	416.7	438.9	455.5	457.7
155°	366.2	370.7	375.2	376.3	386.1	399.1	405.6	414.4	432.1	445.4	446.8
157.5°	375.5	379.9	384.4	385.5	392.2	401.1	405.6	412.5	426.2	436.5	437.5
160°	381.9	385.3	388.8	389.7	395.0	402.0	405.6	411.5	423.2	432.1	432.6
162.5°	388.3	390.8	393.4	394.1	397.9	403.1	405.6	410.6	420.5	427.9	428.5
165°	395.2	397.5	399.8	400.4	402.1	404.4	405.6	409.2	416.3	421.6	422.1
167.5°	401.5	402.6	403.7	404.0	405.4	407.4	408.4	410.7	415.3	418.8	419.1
170°	405.6	406.7	407.8	408.1	408.2	408.3	408.4	410.7	415.3	418.8	418.8
172.5°	407.8	408.1	408.3	408.4	408.4	408.4	408.4	410.2	413.9	416.6	416.4
175°	410.9	410.9	410.9	410.9	410.0	408.9	408.4	409.6	411.9	413.6	413.6
177.5°	410.9	410.9	410.9	410.9	410.2	409.4	408.9	409.8	411.7	413.1	412.8
180°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	2001.5	1995.9	2001.5	1997.7	1999.6	1994.1	1977.4	1971.9	1977.4	1983.0	1983.0
5°	2025.4	2021.8	2025.4	2025.4	2023.6	2019.9	2001.5	1997.7	2001.5	2003.3	1999.6
7.5°	2032.9	2027.3	2032.9	2029.1	2029.1	2025.4	2007.0	2003.3	2005.2	2010.7	2005.2
10°	2032.9	2027.3	2032.9	2031.0	2029.1	2025.4	2007.0	1999.6	1999.6	2005.2	1999.6
12.5°	2023.6	2019.9	2023.6	2019.9	2019.9	2016.3	1997.7	1990.4	1992.2	1994.1	1986.7
15°	2008.8	2003.3	2008.8	2005.2	2007.0	2001.5	1981.1	1973.8	1973.8	1977.4	1964.5
17.5°	1986.7	1979.3	1986.7	1984.9	1983.0	1979.3	1960.8	1953.5	1951.6	1953.5	1944.2
20°	1960.8	1955.3	1960.8	1959.0	1959.0	1951.6	1933.1	1923.9	1923.9	1923.9	1914.7
22.5°	1920.2	1914.7	1920.2	1923.9	1923.9	1922.0	1905.4	1892.6	1888.8	1888.8	1877.8
25°	1874.0	1868.5	1874.0	1874.0	1872.2	1874.0	1868.5	1861.2	1855.6	1850.1	1839.0
27.5°	1829.7	1826.0	1829.7	1826.0	1829.7	1824.2	1822.4	1820.5	1813.1	1807.6	1792.8
30°	1785.5	1781.7	1785.5	1781.7	1778.0	1774.4	1765.1	1761.4	1768.9	1765.1	1741.1
32.5°	1730.0	1726.4	1730.0	1730.0	1726.4	1726.4	1711.6	1706.0	1707.9	1718.9	1696.8
35°	1672.8	1667.3	1672.8	1670.9	1672.8	1667.3	1658.0	1656.2	1648.8	1661.8	1645.2
37.5°	1606.3	1600.8	1606.3	1606.3	1606.3	1610.0	1602.7	1597.1	1586.1	1602.7	1589.7
40°	1538.1	1530.6	1538.1	1536.1	1538.1	1541.7	1538.1	1534.3	1523.3	1536.1	1525.1
42.5°	1460.5	1458.6	1460.5	1462.3	1462.3	1469.7	1475.3	1467.9	1464.2	1454.9	1462.3
45°	1377.4	1373.7	1377.4	1381.0	1383.0	1386.6	1403.2	1403.2	1397.7	1383.0	1394.0
47.5°	1288.7	1279.5	1288.7	1299.8	1299.8	1305.4	1322.0	1334.9	1325.7	1307.3	1312.8
50°	1194.6	1196.4	1194.6	1202.0	1202.0	1222.3	1235.2	1248.2	1257.3	1235.2	1209.3
52.5°	1102.2	1100.4	1102.2	1107.8	1115.2	1124.5	1146.6	1159.5	1174.3	1161.3	1120.8
55°	1009.9	1013.7	1009.9	1011.9	1015.5	1021.0	1054.2	1067.2	1094.9	1078.3	1035.8
57.5°	917.6	912.1	917.6	921.4	923.2	928.7	956.4	980.4	997.1	998.9	947.2
60°	810.5	803.2	810.5	827.2	830.9	834.6	860.4	882.5	897.3	902.8	849.3
62.5°	716.4	703.5	716.4	727.5	734.9	744.1	762.5	795.8	808.7	810.5	734.9
65°	616.7	611.2	616.7	638.8	640.6	651.7	672.1	696.1	723.8	720.1	611.2
67.5°	526.2	526.2	526.2	541.0	552.1	557.6	583.5	594.6	629.6	633.3	509.6
70°	443.2	441.3	443.2	454.2	461.6	474.5	498.5	511.4	539.1	548.4	413.6
72.5°	363.8	361.8	363.8	373.0	380.4	391.4	411.8	426.5	450.5	461.6	321.3
75°	293.6	289.9	293.6	300.9	299.1	313.9	330.5	345.2	367.4	374.8	238.1
77.5°	225.3	225.3	225.3	232.6	232.6	247.4	254.8	273.3	286.2	297.2	175.4
80°	168.0	166.2	168.0	169.9	169.9	177.2	190.1	203.1	214.2	214.2	120.0
82.5°	118.2	114.4	118.2	118.2	118.2	121.9	129.2	133.0	140.3	145.8	75.7
85°	73.9	73.9	73.9	75.7	73.9	77.5	79.4	83.1	83.1	79.4	46.2
87.5°	48.0	46.2	48.0	46.2	46.2	44.3	44.3	44.3	42.5	40.7	25.9
90°	10.5	10.5	10.5	10.5	10.5	13.9	18.6	20.9	18.0	12.1	7.7
92.5°	42.0	33.7	42.0	50.3	52.4	74.2	103.4	118.0	103.6	74.8	53.2
95°	146.3	121.0	146.3	171.5	177.8	233.6	307.8	345.0	291.4	184.1	103.7
97.5°	350.6	302.5	350.6	398.6	410.6	445.8	492.7	516.2	426.8	248.0	113.9
100°	505.1	447.8	505.1	562.3	576.6	574.0	570.6	568.9	469.7	271.3	122.4
102.5°	657.0	608.0	657.0	706.0	718.3	673.4	613.7	583.7	483.2	281.9	131.0
105°	850.8	824.5	850.8	877.1	883.7	783.2	649.1	582.1	484.6	289.8	143.6
107.5°	977.8	984.1	977.8	971.4	969.8	829.5	642.5	549.0	463.1	291.3	162.4
110°	1026.2	1053.6	1026.2	998.7	991.8	835.0	626.0	521.4	444.0	289.1	172.9



TEST NUMBER: P933856

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1030.5	1072.6	1030.5	988.4	977.8	817.3	603.4	496.4	427.3	289.2	185.6
115°	1003.1	1061.6	1003.1	944.7	930.1	775.5	569.3	466.3	408.1	291.8	204.6
117.5°	945.2	1010.0	945.2	880.4	864.2	724.7	538.7	445.6	396.2	297.2	223.1
120°	898.5	961.5	898.5	835.6	819.8	692.3	522.3	437.3	392.0	301.6	233.8
122.5°	853.1	915.2	853.1	790.9	775.4	660.6	507.5	430.9	389.9	308.0	246.5
125°	788.1	845.4	788.1	730.9	716.6	619.1	489.0	424.1	388.3	316.6	262.8
127.5°	729.8	778.1	729.8	681.6	669.5	585.8	474.1	418.3	387.3	325.1	278.5
130°	695.5	740.1	695.5	650.9	639.7	565.2	465.8	416.1	387.8	331.4	289.0
132.5°	664.3	704.2	664.3	624.4	614.4	547.7	458.7	414.2	388.3	336.4	297.5
135°	621.6	656.0	621.6	587.1	578.5	522.6	448.1	410.9	387.9	341.9	307.4
137.5°	587.2	615.5	587.2	559.1	552.0	504.7	441.8	410.3	390.3	350.2	320.1
140°	563.7	590.1	563.7	537.4	530.8	490.0	435.5	408.4	390.7	355.2	328.7
142.5°	544.3	567.0	544.3	521.6	515.9	480.0	432.2	408.4	392.0	359.5	335.1
145°	515.0	532.2	515.0	497.8	493.5	464.3	425.2	405.6	392.0	365.0	344.7
147.5°	492.6	506.8	492.6	478.4	474.8	451.8	421.0	405.6	394.8	373.0	356.8
150°	478.5	490.0	478.5	466.9	464.1	444.6	418.7	405.6	396.2	377.3	363.1
152.5°	466.4	475.1	466.4	457.7	455.5	438.9	416.7	405.6	397.1	380.0	367.3
155°	452.5	458.3	452.5	446.8	445.4	432.1	414.4	405.6	399.1	386.1	376.3
157.5°	441.6	445.6	441.6	437.5	436.5	426.2	412.5	405.6	401.1	392.2	385.5
160°	435.0	437.3	435.0	432.6	432.1	423.2	411.5	405.6	402.0	395.0	389.7
162.5°	430.7	432.9	430.7	428.5	427.9	420.5	410.6	405.6	403.1	397.9	394.1
165°	424.5	426.8	424.5	422.1	421.6	416.3	409.2	405.6	404.4	402.1	400.4
167.5°	420.0	421.0	420.0	419.1	418.8	415.3	410.7	408.4	407.4	405.4	404.0
170°	418.8	418.8	418.8	418.8	418.8	415.3	410.7	408.4	408.3	408.2	408.1
172.5°	415.5	414.7	415.5	416.4	416.6	413.9	410.2	408.4	408.4	408.4	408.4
175°	413.6	413.6	413.6	413.6	413.6	411.9	409.6	408.4	408.9	410.0	410.9
177.5°	411.9	410.9	411.9	412.8	413.1	411.7	409.8	408.9	409.4	410.2	410.9
180°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9



TEST NUMBER: P933856

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1979.3	1968.2	1968.2	1949.7	1942.4	1936.8	1927.6	1899.9	1892.6	1885.1	1896.2
5°	1995.9	1975.6	1960.8	1927.6	1899.9	1888.8	1853.7	1787.3	1743.0	1709.8	1691.3
7.5°	1999.6	1973.8	1946.1	1894.4	1827.9	1798.3	1691.3	1569.4	1536.1	1506.7	1488.1
10°	1995.9	1966.3	1927.6	1850.1	1693.1	1641.4	1534.3	1454.9	1434.6	1429.1	1434.6
12.5°	1983.0	1955.3	1901.7	1772.5	1552.8	1517.7	1454.9	1408.8	1405.1	1414.4	1464.2
15°	1960.8	1935.0	1872.2	1669.1	1475.3	1449.4	1405.1	1388.5	1408.8	1473.4	1622.9
17.5°	1938.7	1909.2	1831.6	1567.6	1416.2	1397.7	1366.3	1399.6	1514.0	1600.8	1650.7
20°	1909.2	1874.0	1785.5	1493.7	1373.7	1357.1	1342.3	1491.9	1578.6	1610.0	1637.7
22.5°	1874.0	1837.1	1722.7	1442.0	1329.4	1316.4	1325.7	1543.6	1578.6	1600.8	1624.8
25°	1827.9	1796.5	1648.8	1401.4	1294.3	1279.5	1314.6	1538.1	1558.3	1563.8	1611.8
27.5°	1785.5	1744.8	1571.3	1364.4	1251.8	1246.3	1323.9	1514.0	1528.8	1534.3	1586.1
30°	1733.7	1672.8	1484.5	1325.7	1207.5	1205.7	1325.7	1484.5	1480.8	1495.6	1547.2
32.5°	1680.2	1565.7	1386.6	1277.7	1165.0	1163.2	1312.8	1440.1	1436.5	1456.7	1495.6
35°	1630.4	1482.6	1253.7	1222.3	1111.5	1113.3	1281.4	1388.5	1390.3	1408.8	1432.8
37.5°	1578.6	1410.6	1107.8	1161.3	1059.8	1059.8	1238.9	1340.5	1336.8	1342.3	1375.5
40°	1517.7	1298.0	978.5	1082.0	1011.9	1006.3	1187.2	1288.7	1275.9	1274.0	1320.1
42.5°	1453.1	1174.3	882.5	976.7	956.4	949.0	1124.5	1225.9	1202.0	1207.5	1266.6
45°	1383.0	1141.1	808.7	825.3	899.2	893.7	1056.1	1154.0	1137.4	1152.2	1213.1
47.5°	1312.8	1074.6	784.7	685.0	838.2	836.4	980.4	1083.8	1074.6	1089.4	1154.0
50°	1216.8	1000.7	782.9	587.1	769.9	777.3	890.0	1015.5	1015.5	1028.5	1096.7
52.5°	1093.1	910.3	710.8	531.7	690.6	712.7	810.5	956.4	960.1	973.0	1034.0
55°	980.4	816.1	659.2	489.3	596.4	644.4	733.0	895.5	902.8	915.8	971.2
57.5°	877.0	679.5	648.1	439.4	509.6	555.8	664.7	836.4	840.1	851.2	904.8
60°	766.3	491.2	594.6	385.9	433.9	468.9	601.9	766.3	779.1	786.6	832.7
62.5°	640.6	356.3	539.1	349.0	397.0	404.3	550.2	699.7	716.4	722.0	749.7
65°	456.1	299.1	457.9	317.6	358.2	360.0	494.8	631.5	646.2	655.4	675.8
67.5°	308.3	243.7	349.0	288.1	328.6	330.5	441.3	552.1	572.4	579.8	592.6
70°	214.2	162.5	258.5	256.7	295.4	299.1	384.1	480.0	498.5	504.1	511.4
72.5°	156.9	131.0	214.2	230.8	260.4	264.0	325.0	398.8	417.3	422.8	426.5
75°	120.0	138.5	173.5	201.3	221.5	223.4	265.9	325.0	337.9	341.6	343.4
77.5°	96.0	129.2	127.4	162.5	181.0	177.2	208.7	251.1	262.2	262.2	262.2
80°	72.0	101.6	96.0	116.4	133.0	129.2	149.6	179.1	182.8	186.5	184.6
82.5°	53.5	64.6	64.6	73.9	88.6	85.0	99.7	116.4	116.4	116.4	120.0
85°	33.2	36.9	29.5	38.8	49.8	48.0	55.4	62.8	64.6	64.6	60.9
87.5°	20.3	16.6	9.3	14.8	22.1	22.1	25.9	27.7	25.9	25.9	25.9
90°	7.2	5.0	2.8	5.0	7.2	7.7	12.1	18.0	20.9	18.6	13.9
92.5°	48.5	29.7	11.0	29.7	48.5	53.2	74.8	103.6	118.0	103.4	74.2
95°	95.1	60.8	26.4	60.8	95.1	103.7	184.1	291.4	345.0	307.8	233.6
97.5°	106.4	76.1	45.8	76.1	106.4	113.9	248.0	426.8	516.2	492.7	445.8
100°	115.5	88.1	60.7	88.1	115.5	122.4	271.3	469.7	568.9	570.6	574.0
102.5°	124.5	98.9	73.3	98.9	124.5	131.0	281.9	483.2	583.7	613.7	673.4
105°	138.2	116.5	94.9	116.5	138.2	143.6	289.8	484.6	582.1	649.1	783.2
107.5°	157.4	137.1	116.9	137.1	157.4	162.4	291.3	463.1	549.0	642.5	829.5
110°	168.3	150.0	131.8	150.0	168.3	172.9	289.1	444.0	521.4	626.0	835.0



TEST NUMBER: P933856

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.2	163.8	146.5	163.8	181.2	185.6	289.2	427.3	496.4	603.4	817.3
115°	200.6	184.5	168.5	184.5	200.6	204.6	291.8	408.1	466.3	569.3	775.5
117.5°	219.4	204.8	190.2	204.8	219.4	223.1	297.2	396.2	445.6	538.7	724.7
120°	230.4	216.7	202.9	216.7	230.4	233.8	301.6	392.0	437.3	522.3	692.3
122.5°	243.0	229.2	215.4	229.2	243.0	246.5	308.0	389.9	430.9	507.5	660.6
125°	259.7	247.0	234.4	247.0	259.7	262.8	316.6	388.3	424.1	489.0	619.1
127.5°	275.3	262.6	249.8	262.6	275.3	278.5	325.1	387.3	418.3	474.1	585.8
130°	285.6	271.8	258.1	271.8	285.6	289.0	331.4	387.8	416.1	465.8	565.2
132.5°	294.1	280.4	266.7	280.4	294.1	297.5	336.4	388.3	414.2	458.7	547.7
135°	304.3	291.8	279.3	291.8	304.3	307.4	341.9	387.9	410.9	448.1	522.6
137.5°	317.0	304.7	292.3	304.7	317.0	320.1	350.2	390.3	410.3	441.8	504.7
140°	325.9	314.4	303.0	314.4	325.9	328.7	355.2	390.7	408.4	435.5	490.0
142.5°	332.4	321.8	311.3	321.8	332.4	335.1	359.5	392.0	408.4	432.2	480.0
145°	342.4	333.2	324.0	333.2	342.4	344.7	365.0	392.0	405.6	425.2	464.3
147.5°	354.6	345.6	336.7	345.6	354.6	356.8	373.0	394.8	405.6	421.0	451.8
150°	361.1	353.0	345.0	353.0	361.1	363.1	377.3	396.2	405.6	418.7	444.6
152.5°	365.7	359.6	353.5	359.6	365.7	367.3	380.0	397.1	405.6	416.7	438.9
155°	375.2	370.7	366.2	370.7	375.2	376.3	386.1	399.1	405.6	414.4	432.1
157.5°	384.4	379.9	375.5	379.9	384.4	385.5	392.2	401.1	405.6	412.5	426.2
160°	388.8	385.3	381.9	385.3	388.8	389.7	395.0	402.0	405.6	411.5	423.2
162.5°	393.4	390.8	388.3	390.8	393.4	394.1	397.9	403.1	405.6	410.6	420.5
165°	399.8	397.5	395.2	397.5	399.8	400.4	402.1	404.4	405.6	409.2	416.3
167.5°	403.7	402.6	401.5	402.6	403.7	404.0	405.4	407.4	408.4	410.7	415.3
170°	407.8	406.7	405.6	406.7	407.8	408.1	408.2	408.3	408.4	410.7	415.3
172.5°	408.3	408.1	407.8	408.1	408.3	408.4	408.4	408.4	408.4	410.2	413.9
175°	410.9	410.9	410.9	410.9	410.9	410.9	410.0	408.9	408.4	409.6	411.9
177.5°	410.9	410.9	410.9	410.9	410.9	410.9	410.2	409.4	408.9	409.8	411.7
180°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9



TEST NUMBER: P933856
 CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1883.3	1877.8	1885.1	1864.8	1885.1	1877.8	1883.3	1896.2	1885.1	1892.6	1899.9
5°	1652.5	1643.2	1613.8	1589.7	1613.8	1643.2	1652.5	1691.3	1709.8	1743.0	1787.3
7.5°	1477.1	1469.7	1462.3	1447.6	1462.3	1469.7	1477.1	1488.1	1506.7	1536.1	1569.4
10°	1438.3	1440.1	1451.2	1449.4	1451.2	1440.1	1438.3	1434.6	1429.1	1434.6	1454.9
12.5°	1538.1	1554.7	1615.6	1611.8	1615.6	1554.7	1538.1	1464.2	1414.4	1405.1	1408.8
15°	1652.5	1658.0	1670.9	1672.8	1670.9	1658.0	1652.5	1622.9	1473.4	1408.8	1388.5
17.5°	1663.6	1665.4	1674.6	1674.6	1674.6	1665.4	1663.6	1650.7	1600.8	1514.0	1399.6
20°	1654.3	1658.0	1676.5	1680.2	1676.5	1658.0	1654.3	1637.7	1610.0	1578.6	1491.9
22.5°	1650.7	1658.0	1672.8	1670.9	1672.8	1658.0	1650.7	1624.8	1600.8	1578.6	1543.6
25°	1632.2	1632.2	1634.0	1635.9	1634.0	1632.2	1632.2	1611.8	1563.8	1558.3	1538.1
27.5°	1593.4	1597.1	1608.2	1606.3	1608.2	1597.1	1593.4	1586.1	1534.3	1528.8	1514.0
30°	1558.3	1554.7	1545.4	1538.1	1545.4	1554.7	1558.3	1547.2	1495.6	1480.8	1484.5
32.5°	1499.2	1490.0	1480.8	1475.3	1480.8	1490.0	1499.2	1495.6	1456.7	1436.5	1440.1
35°	1429.1	1431.0	1429.1	1423.5	1429.1	1431.0	1429.1	1432.8	1408.8	1390.3	1388.5
37.5°	1379.2	1383.0	1381.0	1373.7	1381.0	1383.0	1379.2	1375.5	1342.3	1336.8	1340.5
40°	1327.5	1329.4	1327.5	1322.0	1327.5	1329.4	1327.5	1320.1	1274.0	1275.9	1288.7
42.5°	1277.7	1275.9	1270.3	1266.6	1270.3	1275.9	1277.7	1266.6	1207.5	1202.0	1225.9
45°	1220.4	1222.3	1211.2	1205.7	1211.2	1222.3	1220.4	1213.1	1152.2	1137.4	1154.0
47.5°	1163.2	1163.2	1154.0	1148.4	1154.0	1163.2	1163.2	1154.0	1089.4	1074.6	1083.8
50°	1102.2	1100.4	1087.5	1085.6	1087.5	1100.4	1102.2	1096.7	1028.5	1015.5	1015.5
52.5°	1032.1	1032.1	1034.0	1037.6	1034.0	1032.1	1032.1	1034.0	973.0	960.1	956.4
55°	971.2	973.0	986.0	989.6	986.0	973.0	971.2	971.2	915.8	902.8	895.5
57.5°	908.4	908.4	917.6	917.6	917.6	908.4	908.4	904.8	851.2	840.1	836.4
60°	836.4	840.1	847.5	845.7	847.5	840.1	836.4	832.7	786.6	779.1	766.3
62.5°	760.7	764.4	766.3	762.5	766.3	764.4	760.7	749.7	722.0	716.4	699.7
65°	681.3	685.0	686.8	683.1	686.8	685.0	681.3	675.8	655.4	646.2	631.5
67.5°	600.1	598.2	596.4	603.8	596.4	598.2	600.1	592.6	579.8	572.4	552.1
70°	516.9	516.9	515.1	518.9	515.1	516.9	516.9	511.4	504.1	498.5	480.0
72.5°	428.4	426.5	433.9	428.4	433.9	426.5	428.4	426.5	422.8	417.3	398.8
75°	341.6	345.2	341.6	347.1	341.6	345.2	341.6	343.4	341.6	337.9	325.0
77.5°	260.4	264.0	260.4	260.4	260.4	264.0	260.4	262.2	262.2	262.2	251.1
80°	184.6	182.8	182.8	181.0	182.8	182.8	184.6	184.6	186.5	182.8	179.1
82.5°	118.2	116.4	116.4	120.0	116.4	116.4	118.2	120.0	116.4	116.4	116.4
85°	64.6	66.4	62.8	62.8	62.8	66.4	64.6	60.9	64.6	64.6	62.8
87.5°	24.0	22.1	22.1	22.1	22.1	22.1	24.0	25.9	25.9	25.9	27.7
90°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	13.9	18.6	20.9	18.0
92.5°	52.4	50.3	42.0	33.7	42.0	50.3	52.4	74.2	103.4	118.0	103.6
95°	177.8	171.5	146.3	121.0	146.3	171.5	177.8	233.6	307.8	345.0	291.4
97.5°	410.6	398.6	350.6	302.5	350.6	398.6	410.6	445.8	492.7	516.2	426.8
100°	576.6	562.3	505.1	447.8	505.1	562.3	576.6	574.0	570.6	568.9	469.7
102.5°	718.3	706.0	657.0	608.0	657.0	706.0	718.3	673.4	613.7	583.7	483.2
105°	883.7	877.1	850.8	824.5	850.8	877.1	883.7	783.2	649.1	582.1	484.6
107.5°	969.8	971.4	977.8	984.1	977.8	971.4	969.8	829.5	642.5	549.0	463.1
110°	991.8	998.7	1026.2	1053.6	1026.2	998.7	991.8	835.0	626.0	521.4	444.0



TEST NUMBER: P933856

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	977.8	988.4	1030.5	1072.6	1030.5	988.4	977.8	817.3	603.4	496.4	427.3
115°	930.1	944.7	1003.1	1061.6	1003.1	944.7	930.1	775.5	569.3	466.3	408.1
117.5°	864.2	880.4	945.2	1010.0	945.2	880.4	864.2	724.7	538.7	445.6	396.2
120°	819.8	835.6	898.5	961.5	898.5	835.6	819.8	692.3	522.3	437.3	392.0
122.5°	775.4	790.9	853.1	915.2	853.1	790.9	775.4	660.6	507.5	430.9	389.9
125°	716.6	730.9	788.1	845.4	788.1	730.9	716.6	619.1	489.0	424.1	388.3
127.5°	669.5	681.6	729.8	778.1	729.8	681.6	669.5	585.8	474.1	418.3	387.3
130°	639.7	650.9	695.5	740.1	695.5	650.9	639.7	565.2	465.8	416.1	387.8
132.5°	614.4	624.4	664.3	704.2	664.3	624.4	614.4	547.7	458.7	414.2	388.3
135°	578.5	587.1	621.6	656.0	621.6	587.1	578.5	522.6	448.1	410.9	387.9
137.5°	552.0	559.1	587.2	615.5	587.2	559.1	552.0	504.7	441.8	410.3	390.3
140°	530.8	537.4	563.7	590.1	563.7	537.4	530.8	490.0	435.5	408.4	390.7
142.5°	515.9	521.6	544.3	567.0	544.3	521.6	515.9	480.0	432.2	408.4	392.0
145°	493.5	497.8	515.0	532.2	515.0	497.8	493.5	464.3	425.2	405.6	392.0
147.5°	474.8	478.4	492.6	506.8	492.6	478.4	474.8	451.8	421.0	405.6	394.8
150°	464.1	466.9	478.5	490.0	478.5	466.9	464.1	444.6	418.7	405.6	396.2
152.5°	455.5	457.7	466.4	475.1	466.4	457.7	455.5	438.9	416.7	405.6	397.1
155°	445.4	446.8	452.5	458.3	452.5	446.8	445.4	432.1	414.4	405.6	399.1
157.5°	436.5	437.5	441.6	445.6	441.6	437.5	436.5	426.2	412.5	405.6	401.1
160°	432.1	432.6	435.0	437.3	435.0	432.6	432.1	423.2	411.5	405.6	402.0
162.5°	427.9	428.5	430.7	432.9	430.7	428.5	427.9	420.5	410.6	405.6	403.1
165°	421.6	422.1	424.5	426.8	424.5	422.1	421.6	416.3	409.2	405.6	404.4
167.5°	418.8	419.1	420.0	421.0	420.0	419.1	418.8	415.3	410.7	408.4	407.4
170°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	415.3	410.7	408.4	408.3
172.5°	416.6	416.4	415.5	414.7	415.5	416.4	416.6	413.9	410.2	408.4	408.4
175°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	411.9	409.6	408.4	408.9
177.5°	413.1	412.8	411.9	410.9	411.9	412.8	413.1	411.7	409.8	408.9	409.4
180°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9



TEST NUMBER: P933856

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1927.6	1936.8	1942.4	1949.7	1968.2
5°	1853.7	1888.8	1899.9	1927.6	1960.8
7.5°	1691.3	1798.3	1827.9	1894.4	1946.1
10°	1534.3	1641.4	1693.1	1850.1	1927.6
12.5°	1454.9	1517.7	1552.8	1772.5	1901.7
15°	1405.1	1449.4	1475.3	1669.1	1872.2
17.5°	1366.3	1397.7	1416.2	1567.6	1831.6
20°	1342.3	1357.1	1373.7	1493.7	1785.5
22.5°	1325.7	1316.4	1329.4	1442.0	1722.7
25°	1314.6	1279.5	1294.3	1401.4	1648.8
27.5°	1323.9	1246.3	1251.8	1364.4	1571.3
30°	1325.7	1205.7	1207.5	1325.7	1484.5
32.5°	1312.8	1163.2	1165.0	1277.7	1386.6
35°	1281.4	1113.3	1111.5	1222.3	1253.7
37.5°	1238.9	1059.8	1059.8	1161.3	1107.8
40°	1187.2	1006.3	1011.9	1082.0	978.5
42.5°	1124.5	949.0	956.4	976.7	882.5
45°	1056.1	893.7	899.2	825.3	808.7
47.5°	980.4	836.4	838.2	685.0	784.7
50°	890.0	777.3	769.9	587.1	782.9
52.5°	810.5	712.7	690.6	531.7	710.8
55°	733.0	644.4	596.4	489.3	659.2
57.5°	664.7	555.8	509.6	439.4	648.1
60°	601.9	468.9	433.9	385.9	594.6
62.5°	550.2	404.3	397.0	349.0	539.1
65°	494.8	360.0	358.2	317.6	457.9
67.5°	441.3	330.5	328.6	288.1	349.0
70°	384.1	299.1	295.4	256.7	258.5
72.5°	325.0	264.0	260.4	230.8	214.2
75°	265.9	223.4	221.5	201.3	173.5
77.5°	208.7	177.2	181.0	162.5	127.4
80°	149.6	129.2	133.0	116.4	96.0
82.5°	99.7	85.0	88.6	73.9	64.6
85°	55.4	48.0	49.8	38.8	29.5
87.5°	25.9	22.1	22.1	14.8	9.3
90°	12.1	7.7	7.2	5.0	2.8
92.5°	74.8	53.2	48.5	29.7	11.0
95°	184.1	103.7	95.1	60.8	26.4
97.5°	248.0	113.9	106.4	76.1	45.8
100°	271.3	122.4	115.5	88.1	60.7
102.5°	281.9	131.0	124.5	98.9	73.3
105°	289.8	143.6	138.2	116.5	94.9
107.5°	291.3	162.4	157.4	137.1	116.9
110°	289.1	172.9	168.3	150.0	131.8



TEST NUMBER: P933856

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	289.2	185.6	181.2	163.8	146.5
115°	291.8	204.6	200.6	184.5	168.5
117.5°	297.2	223.1	219.4	204.8	190.2
120°	301.6	233.8	230.4	216.7	202.9
122.5°	308.0	246.5	243.0	229.2	215.4
125°	316.6	262.8	259.7	247.0	234.4
127.5°	325.1	278.5	275.3	262.6	249.8
130°	331.4	289.0	285.6	271.8	258.1
132.5°	336.4	297.5	294.1	280.4	266.7
135°	341.9	307.4	304.3	291.8	279.3
137.5°	350.2	320.1	317.0	304.7	292.3
140°	355.2	328.7	325.9	314.4	303.0
142.5°	359.5	335.1	332.4	321.8	311.3
145°	365.0	344.7	342.4	333.2	324.0
147.5°	373.0	356.8	354.6	345.6	336.7
150°	377.3	363.1	361.1	353.0	345.0
152.5°	380.0	367.3	365.7	359.6	353.5
155°	386.1	376.3	375.2	370.7	366.2
157.5°	392.2	385.5	384.4	379.9	375.5
160°	395.0	389.7	388.8	385.3	381.9
162.5°	397.9	394.1	393.4	390.8	388.3
165°	402.1	400.4	399.8	397.5	395.2
167.5°	405.4	404.0	403.7	402.6	401.5
170°	408.2	408.1	407.8	406.7	405.6
172.5°	408.4	408.4	408.3	408.1	407.8
175°	410.0	410.9	410.9	410.9	410.9
177.5°	410.2	410.9	410.9	410.9	410.9
180°	410.9	410.9	410.9	410.9	410.9



TEST NUMBER: P933856
 CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-5000K

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	12.38	13.40	13.19	14.23	15.27	15.23	16.25	16.04	17.09	18.12
	3H	12.87	13.78	13.69	14.63	15.69	16.60	17.51	17.42	18.35	19.41
	4H	13.07	13.93	13.91	14.78	15.85	17.05	17.92	17.89	18.77	19.84
	6H	13.19	13.99	14.05	14.85	15.93	17.35	18.15	18.20	19.01	20.09
	8H	13.20	13.96	14.06	14.84	15.92	17.43	18.19	18.29	19.07	20.15
	12H	13.18	13.90	14.04	14.77	15.88	17.48	18.20	18.35	19.07	20.18
4H	2H	13.44	14.30	14.28	15.15	16.22	15.66	16.52	16.50	17.37	18.44
	3H	14.48	15.20	15.34	16.08	17.17	17.19	17.91	18.04	18.79	19.88
	4H	14.76	15.42	15.63	16.30	17.41	17.72	18.38	18.60	19.26	20.37
	6H	14.90	15.46	15.78	16.37	17.48	18.10	18.67	18.99	19.58	20.69
	8H	14.90	15.43	15.79	16.33	17.46	18.22	18.75	19.11	19.65	20.78
	12H	14.88	15.36	15.79	16.28	17.41	18.29	18.76	19.20	19.68	20.82
8H	4H	15.23	15.76	16.12	16.66	17.79	17.86	18.39	18.75	19.29	20.42
	6H	15.50	15.94	16.42	16.88	18.01	18.31	18.75	19.23	19.69	20.82
	8H	15.54	15.93	16.47	16.87	18.01	18.47	18.86	19.39	19.79	20.94
	12H	15.53	15.88	16.46	16.80	18.00	18.58	18.92	19.51	19.85	21.04
12H	4H	15.25	15.72	16.15	16.64	17.78	17.83	18.31	18.74	19.23	20.36
	6H	15.56	15.95	16.49	16.89	18.03	18.31	18.70	19.23	19.63	20.78
	8H	15.64	15.98	16.57	16.90	18.10	18.48	18.82	19.41	19.75	20.95