

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: P933996

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933996
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-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

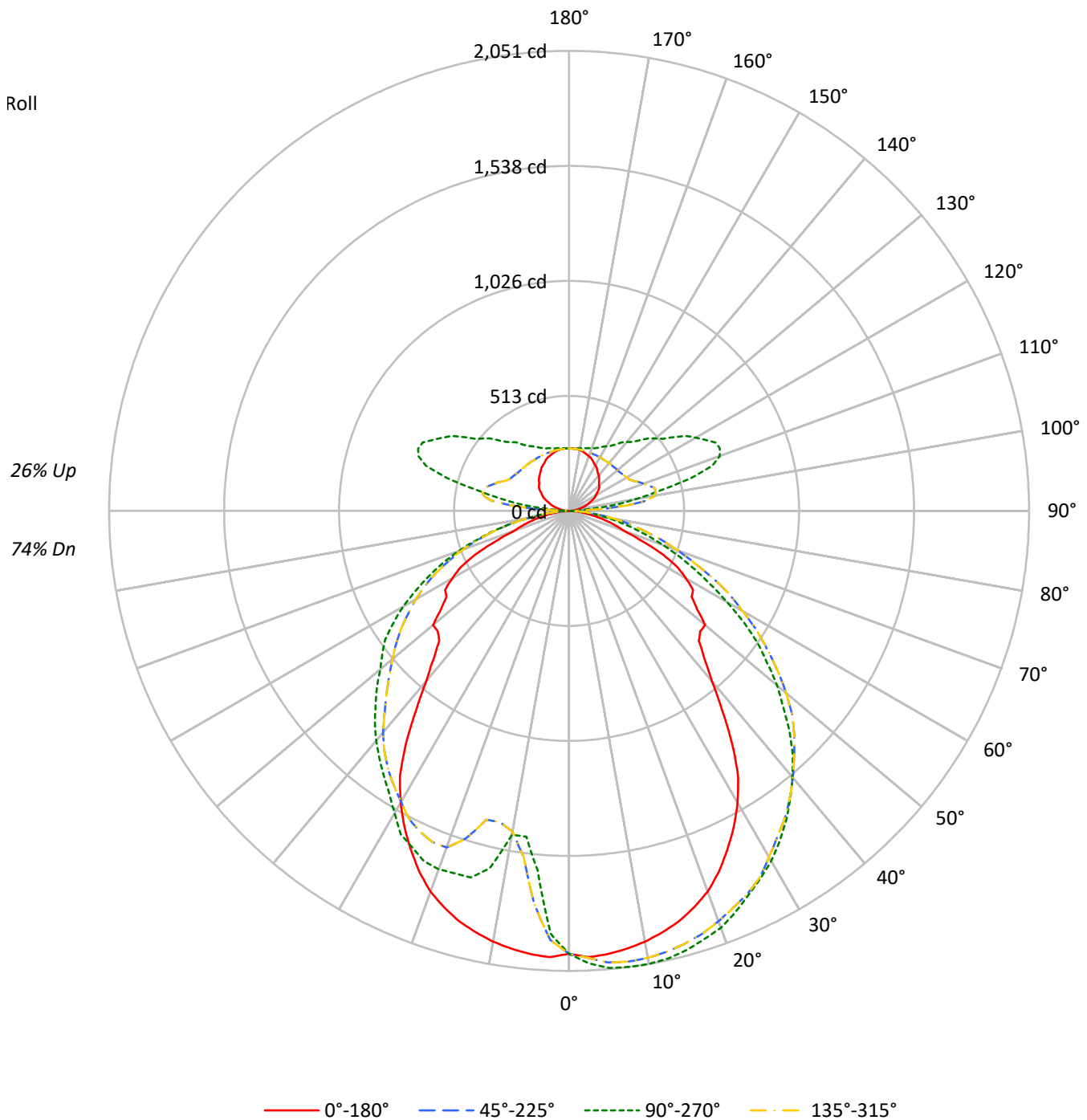
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6927.5 lumens
Efficiency: N/A
Efficacy: 115.5 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	50	30	10	0		
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°	9160	9160	9160	9160
5°	9229	9247	9229	7271
10°	9167	9109	9167	6512
15°	9068	8911	9068	7441
20°	8878	8678	8878	7457
25°	8489	8336	8489	7299
30°	7988	8053	7988	6952
35°	7121	7695	7121	6570
40°	5934	7274	5934	6282
45°	5302	6780	5302	5951
50°	5633	6192	5633	5619
55°	5300	5558	5300	5426
60°	5463	4721	5463	4970
65°	4953	3902	4953	4362
70°	3430	3110	3430	3656
75°	3008	2299	3008	2753
80°	2423	1520	2423	1655
85°	1393	805	1393	684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	2.6
10°-20°	506.0	7.3
20°-30°	782.2	11.3
30°-40°	933.8	13.5
40°-50°	939.3	13.6
50°-60°	817.3	11.8
60°-70°	579.5	8.4
70°-80°	306.6	4.4
80°-90°	77.4	1.1
90°-100°	135.9	2.0
100°-110°	357.3	5.2
110°-120°	370.4	5.3
120°-130°	297.1	4.3
130°-140°	233.1	3.4
140°-150°	179.0	2.6
150°-160°	128.9	1.9
160°-170°	78.9	1.1
170°-180°	26.6	0.4
0°-30°	1466.5	21.2
0°-40°	2400.3	34.6
0°-60°	4156.8	60.0
0°-90°	5120.4	73.9
90°-120°	863.6	12.5
90°-150°	1572.8	22.7
90°-180°	1807.0	26.1
0°-180°	6927.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1974	1974	1974	1974	1974	
5°	1984	2045	1984	1608	1984	188
15°	1894	2027	1894	1692	1894	533
25°	1668	1890	1668	1655	1668	766
35°	1268	1687	1268	1440	1268	785
45°	818	1390	818	1220	818	655
55°	667	1026	667	1001	667	613
65°	463	618	463	691	463	443
75°	176	293	176	351	176	185
85°	30	75	30	64	30	40
90°	2	7	2	7	2	3
95°	18	82	18	82	18	20
105°	64	559	64	559	64	68
115°	114	720	114	720	114	113
125°	159	574	159	574	159	141
135°	190	445	190	445	190	147
145°	220	361	220	361	220	138
155°	248	311	248	311	248	114
165°	268	290	268	290	268	76
175°	279	281	279	281	279	26
180°	279	279	279	279	279	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1991.2	1991.2	2002.4	2006.1	2006.1	2000.5	1994.9	2000.5	2017.3	2023.0	2021.1
5°	1983.7	1998.7	2019.2	2023.0	2026.7	2024.8	2021.1	2024.8	2043.5	2047.2	2049.1
7.5°	1968.8	1996.8	2023.0	2028.6	2034.2	2028.6	2026.7	2030.4	2049.1	2052.8	2052.8
10°	1950.1	1989.3	2019.2	2023.0	2028.6	2023.0	2023.0	2030.4	2049.1	2052.8	2054.7
12.5°	1923.9	1978.1	2006.1	2009.9	2017.3	2015.5	2013.6	2021.1	2039.8	2043.5	2043.5
15°	1894.1	1957.6	1983.7	1987.5	2000.5	1996.8	1996.8	2004.3	2024.8	2030.4	2028.6
17.5°	1853.0	1931.4	1961.3	1966.9	1976.3	1974.4	1976.3	1983.7	2002.4	2006.1	2008.0
20°	1806.3	1895.9	1931.4	1937.0	1946.4	1946.4	1946.4	1955.7	1974.4	1981.9	1981.9
22.5°	1742.8	1858.6	1895.9	1899.7	1910.9	1910.9	1914.6	1927.7	1944.5	1946.4	1946.4
25°	1668.0	1817.5	1849.2	1860.4	1871.6	1877.2	1882.9	1890.3	1895.9	1894.1	1895.9
27.5°	1589.6	1765.2	1806.3	1813.7	1828.7	1834.3	1841.8	1843.6	1845.5	1851.1	1847.4
30°	1501.8	1692.3	1754.0	1761.4	1785.7	1789.5	1782.0	1785.7	1795.1	1798.8	1802.5
32.5°	1402.8	1584.0	1699.8	1716.6	1739.0	1727.8	1725.9	1731.5	1746.5	1746.5	1750.2
35°	1268.3	1499.9	1649.4	1664.3	1681.1	1668.0	1675.5	1677.4	1686.7	1692.3	1690.4
37.5°	1120.7	1427.1	1597.0	1608.3	1621.3	1604.5	1615.7	1621.3	1628.8	1625.1	1625.1
40°	990.0	1313.1	1535.4	1542.9	1554.1	1541.0	1552.2	1556.0	1559.7	1556.0	1554.1
42.5°	892.9	1188.0	1470.0	1479.4	1471.9	1481.2	1485.0	1492.4	1486.8	1479.4	1479.4
45°	818.2	1154.3	1399.0	1410.2	1399.0	1414.0	1419.6	1419.6	1402.8	1399.0	1397.2
47.5°	793.9	1087.2	1328.1	1328.1	1322.5	1341.1	1350.5	1337.4	1320.6	1315.0	1315.0
50°	792.0	1012.5	1230.9	1223.4	1249.6	1272.0	1262.7	1249.6	1236.5	1216.0	1216.0
52.5°	719.2	920.9	1105.9	1133.8	1174.9	1188.0	1173.0	1159.9	1137.5	1128.2	1120.7
55°	666.9	825.7	991.9	1047.9	1090.9	1107.7	1079.7	1066.6	1033.0	1027.4	1023.7
57.5°	655.7	687.4	887.3	958.3	1010.6	1008.7	991.9	967.6	939.6	934.0	932.1
60°	601.5	496.9	775.2	859.3	913.5	907.8	892.9	870.5	844.3	840.6	836.9
62.5°	545.5	360.5	648.2	743.5	820.1	818.2	805.1	771.5	752.8	743.5	736.0
65°	463.3	302.6	461.4	618.3	728.5	732.3	704.2	680.0	659.4	648.2	646.3
67.5°	353.1	246.6	312.0	515.6	640.7	637.0	601.5	590.3	564.1	558.5	547.3
70°	261.5	164.4	216.7	418.4	554.8	545.5	517.4	504.4	480.1	467.0	459.5
72.5°	216.7	132.6	158.8	325.0	467.0	455.8	431.5	416.6	396.0	384.8	377.3
75°	175.6	140.1	121.4	241.0	379.2	371.7	349.3	334.4	317.6	302.6	304.5
77.5°	128.9	130.8	97.1	177.5	300.7	289.5	276.5	257.8	250.3	235.4	235.4
80°	97.1	102.7	72.9	121.4	216.7	216.7	205.5	192.4	179.3	171.9	171.9
82.5°	65.4	65.4	54.2	76.6	147.6	142.0	134.5	130.8	123.3	119.6	119.6
85°	29.9	37.4	33.6	46.7	80.3	84.1	84.1	80.3	78.5	74.7	76.6
87.5°	9.3	16.8	20.5	26.2	41.1	43.0	44.8	44.8	44.8	46.7	46.7
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4	35.6	34.2
95°	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5	120.7	116.4
97.5°	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5	278.6	270.5
100°	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5	391.3	381.5
102.5°	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9	487.4	479.0
105°	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4	599.6	595.1
107.5°	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8	658.0	659.1
110°	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6	672.9	677.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5	663.4	670.6
115°	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2	631.1	641.0
117.5°	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7	586.4	597.4
120°	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7	556.2	566.8
122.5°	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2	526.1	536.7
125°	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1	486.2	496.0
127.5°	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5	454.3	462.5
130°	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5	434.0	441.6
132.5°	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5	416.8	423.7
135°	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6	392.6	398.4
137.5°	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5	374.5	379.3
140°	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5	360.2	364.6
142.5°	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8	350.1	353.9
145°	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0	334.9	337.8
147.5°	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5	322.1	324.6
150°	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7	314.9	316.8
152.5°	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8	309.1	310.6
155°	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2	302.1	303.1
157.5°	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2	296.2	296.8
160°	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2	293.2	293.6
162.5°	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3	290.4	290.8
165°	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4	286.1	286.5
167.5°	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9	284.2	284.4
170°	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9	284.2	284.2
172.5°	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9	282.7	282.5
175°	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5	280.7	280.7
177.5°	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4	280.3	280.1
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2024.8	2019.2	2024.8	2021.1	2023.0	2017.3	2000.5	1994.9	2000.5	2006.1	2006.1
5°	2049.1	2045.4	2049.1	2049.1	2047.2	2043.5	2024.8	2021.1	2024.8	2026.7	2023.0
7.5°	2056.6	2051.0	2056.6	2052.8	2052.8	2049.1	2030.4	2026.7	2028.6	2034.2	2028.6
10°	2056.6	2051.0	2056.6	2054.7	2052.8	2049.1	2030.4	2023.0	2023.0	2028.6	2023.0
12.5°	2047.2	2043.5	2047.2	2043.5	2043.5	2039.8	2021.1	2013.6	2015.5	2017.3	2009.9
15°	2032.3	2026.7	2032.3	2028.6	2030.4	2024.8	2004.3	1996.8	1996.8	2000.5	1987.5
17.5°	2009.9	2002.4	2009.9	2008.0	2006.1	2002.4	1983.7	1976.3	1974.4	1976.3	1966.9
20°	1983.7	1978.1	1983.7	1981.9	1981.9	1974.4	1955.7	1946.4	1946.4	1946.4	1937.0
22.5°	1942.6	1937.0	1942.6	1946.4	1946.4	1944.5	1927.7	1914.6	1910.9	1910.9	1899.7
25°	1895.9	1890.3	1895.9	1895.9	1894.1	1895.9	1890.3	1882.9	1877.2	1871.6	1860.4
27.5°	1851.1	1847.4	1851.1	1847.4	1851.1	1845.5	1843.6	1841.8	1834.3	1828.7	1813.7
30°	1806.3	1802.5	1806.3	1802.5	1798.8	1795.1	1785.7	1782.0	1789.5	1785.7	1761.4
32.5°	1750.2	1746.5	1750.2	1750.2	1746.5	1746.5	1731.5	1725.9	1727.8	1739.0	1716.6
35°	1692.3	1686.7	1692.3	1690.4	1692.3	1686.7	1677.4	1675.5	1668.0	1681.1	1664.3
37.5°	1625.1	1619.5	1625.1	1625.1	1625.1	1628.8	1621.3	1615.7	1604.5	1621.3	1608.3
40°	1556.0	1548.5	1556.0	1554.1	1556.0	1559.7	1556.0	1552.2	1541.0	1554.1	1542.9
42.5°	1477.5	1475.6	1477.5	1479.4	1479.4	1486.8	1492.4	1485.0	1481.2	1471.9	1479.4
45°	1393.4	1389.7	1393.4	1397.2	1399.0	1402.8	1419.6	1419.6	1414.0	1399.0	1410.2
47.5°	1303.8	1294.4	1303.8	1315.0	1315.0	1320.6	1337.4	1350.5	1341.1	1322.5	1328.1
50°	1208.5	1210.4	1208.5	1216.0	1216.0	1236.5	1249.6	1262.7	1272.0	1249.6	1223.4
52.5°	1115.1	1113.3	1115.1	1120.7	1128.2	1137.5	1159.9	1173.0	1188.0	1174.9	1133.8
55°	1021.8	1025.5	1021.8	1023.7	1027.4	1033.0	1066.6	1079.7	1107.7	1090.9	1047.9
57.5°	928.4	922.8	928.4	932.1	934.0	939.6	967.6	991.9	1008.7	1010.6	958.3
60°	820.1	812.6	820.1	836.9	840.6	844.3	870.5	892.9	907.8	913.5	859.3
62.5°	724.8	711.7	724.8	736.0	743.5	752.8	771.5	805.1	818.2	820.1	743.5
65°	623.9	618.3	623.9	646.3	648.2	659.4	680.0	704.2	732.3	728.5	618.3
67.5°	532.4	532.4	532.4	547.3	558.5	564.1	590.3	601.5	637.0	640.7	515.6
70°	448.3	446.5	448.3	459.5	467.0	480.1	504.4	517.4	545.5	554.8	418.4
72.5°	368.0	366.1	368.0	377.3	384.8	396.0	416.6	431.5	455.8	467.0	325.0
75°	297.0	293.3	297.0	304.5	302.6	317.6	334.4	349.3	371.7	379.2	241.0
77.5°	227.9	227.9	227.9	235.4	235.4	250.3	257.8	276.5	289.5	300.7	177.5
80°	170.0	168.1	170.0	171.9	171.9	179.3	192.4	205.5	216.7	216.7	121.4
82.5°	119.6	115.8	119.6	119.6	119.6	123.3	130.8	134.5	142.0	147.6	76.6
85°	74.7	74.7	74.7	76.6	74.7	78.5	80.3	84.1	84.1	80.3	46.7
87.5°	48.6	46.7	48.6	46.7	46.7	44.8	44.8	44.8	43.0	41.1	26.2
90°	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2	8.2	5.2
92.5°	28.5	22.8	28.5	34.2	35.6	50.4	70.1	80.0	70.3	50.8	36.1
95°	99.3	82.1	99.3	116.4	120.7	158.5	208.8	234.1	197.6	124.9	70.3
97.5°	237.8	205.2	237.8	270.5	278.6	302.5	334.4	350.2	289.5	168.2	77.2
100°	342.7	303.8	342.7	381.5	391.3	389.5	387.1	385.9	318.6	184.0	83.0
102.5°	445.8	412.5	445.8	479.0	487.4	456.9	416.4	396.1	327.8	191.3	88.8
105°	577.3	559.4	577.3	595.1	599.6	531.4	440.5	395.0	328.9	196.7	97.5
107.5°	663.4	667.7	663.4	659.1	658.0	562.8	435.9	372.5	314.2	197.6	110.2
110°	696.2	714.9	696.2	677.6	672.9	566.6	424.7	353.8	301.2	196.1	117.3



TEST NUMBER: P933996

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	699.2	727.8	699.2	670.6	663.4	554.5	409.4	336.8	289.9	196.2	125.9
115°	680.7	720.3	680.7	641.0	631.1	526.2	386.3	316.3	276.9	198.0	138.8
117.5°	641.4	685.4	641.4	597.4	586.4	491.7	365.5	302.3	268.8	201.7	151.4
120°	609.6	652.4	609.6	566.8	556.2	469.7	354.4	296.7	266.1	204.7	158.7
122.5°	578.8	620.9	578.8	536.7	526.1	448.2	344.4	292.4	264.6	209.0	167.3
125°	534.8	573.7	534.8	496.0	486.2	420.1	331.9	287.8	263.5	214.8	178.3
127.5°	495.2	528.0	495.2	462.5	454.3	397.5	321.8	283.8	262.7	220.6	188.9
130°	471.9	502.1	471.9	441.6	434.0	383.5	316.1	282.3	263.2	224.8	196.0
132.5°	450.7	477.8	450.7	423.7	416.8	371.5	311.2	281.0	263.5	228.3	201.8
135°	421.7	445.1	421.7	398.4	392.6	354.6	304.1	278.8	263.2	232.0	208.7
137.5°	398.4	417.6	398.4	379.3	374.5	342.5	299.8	278.4	264.8	237.6	217.2
140°	382.5	400.4	382.5	364.6	360.2	332.5	295.6	277.1	265.1	241.1	223.0
142.5°	369.3	384.6	369.3	353.9	350.1	325.8	293.4	277.1	266.1	244.0	227.3
145°	349.5	361.1	349.5	337.8	334.9	315.0	288.5	275.2	266.1	247.7	233.9
147.5°	334.2	343.9	334.2	324.6	322.1	306.5	285.7	275.2	267.9	253.1	242.1
150°	324.7	332.5	324.7	316.8	314.9	301.7	284.0	275.2	268.8	256.0	246.4
152.5°	316.4	322.3	316.4	310.6	309.1	297.8	282.7	275.2	269.5	257.9	249.2
155°	307.0	310.9	307.0	303.1	302.1	293.2	281.2	275.2	270.9	262.0	255.4
157.5°	299.6	302.3	299.6	296.8	296.2	289.2	279.9	275.2	272.2	266.1	261.5
160°	295.1	296.7	295.1	293.6	293.2	287.2	279.3	275.2	272.8	268.0	264.3
162.5°	292.2	293.7	292.2	290.8	290.4	285.3	278.6	275.2	273.5	269.9	267.3
165°	288.0	289.6	288.0	286.5	286.1	282.4	277.7	275.2	274.5	272.9	271.7
167.5°	285.1	285.7	285.1	284.4	284.2	281.9	278.7	277.1	276.5	275.2	274.1
170°	284.2	284.2	284.2	284.2	284.2	281.9	278.7	277.1	277.1	277.0	276.9
172.5°	282.0	281.4	282.0	282.5	282.7	280.9	278.3	277.1	277.1	277.1	277.1
175°	280.7	280.7	280.7	280.7	280.7	279.5	277.9	277.1	277.5	278.2	278.8
177.5°	279.5	278.8	279.5	280.1	280.3	279.4	278.1	277.5	277.8	278.3	278.8
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P933996

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2002.4	1991.2	1991.2	1972.5	1965.0	1959.4	1950.1	1922.1	1914.6	1907.1	1918.3
5°	2019.2	1998.7	1983.7	1950.1	1922.1	1910.9	1875.4	1808.1	1763.3	1729.7	1711.0
7.5°	2023.0	1996.8	1968.8	1916.5	1849.2	1819.3	1711.0	1587.7	1554.1	1524.2	1505.5
10°	2019.2	1989.3	1950.1	1871.6	1712.9	1660.6	1552.2	1471.9	1451.3	1445.7	1451.3
12.5°	2006.1	1978.1	1923.9	1793.2	1570.9	1535.4	1471.9	1425.2	1421.5	1430.8	1481.2
15°	1983.7	1957.6	1894.1	1688.6	1492.4	1466.3	1421.5	1404.6	1425.2	1490.6	1641.9
17.5°	1961.3	1931.4	1853.0	1585.8	1432.7	1414.0	1382.2	1415.9	1531.7	1619.5	1669.9
20°	1931.4	1895.9	1806.3	1511.1	1389.7	1372.9	1357.9	1509.3	1597.0	1628.8	1656.8
22.5°	1895.9	1858.6	1742.8	1458.8	1344.9	1331.8	1341.1	1561.6	1597.0	1619.5	1643.7
25°	1849.2	1817.5	1668.0	1417.7	1309.4	1294.4	1329.9	1556.0	1576.5	1582.1	1630.7
27.5°	1806.3	1765.2	1589.6	1380.4	1266.4	1260.8	1339.3	1531.7	1546.6	1552.2	1604.5
30°	1754.0	1692.3	1501.8	1341.1	1221.6	1219.7	1341.1	1501.8	1498.0	1513.0	1565.3
32.5°	1699.8	1584.0	1402.8	1292.6	1178.6	1176.7	1328.1	1456.9	1453.2	1473.8	1513.0
35°	1649.4	1499.9	1268.3	1236.5	1124.4	1126.3	1296.3	1404.6	1406.5	1425.2	1449.5
37.5°	1597.0	1427.1	1120.7	1174.9	1072.2	1072.2	1253.3	1356.1	1352.3	1357.9	1391.6
40°	1535.4	1313.1	990.0	1094.6	1023.7	1018.1	1201.0	1303.8	1290.7	1288.8	1335.5
42.5°	1470.0	1188.0	892.9	988.2	967.6	960.2	1137.5	1240.3	1216.0	1221.6	1281.4
45°	1399.0	1154.3	818.2	835.0	909.7	904.1	1068.5	1167.4	1150.6	1165.5	1227.2
47.5°	1328.1	1087.2	793.9	693.0	848.1	846.2	991.9	1096.5	1087.2	1102.1	1167.4
50°	1230.9	1012.5	792.0	594.0	779.0	786.4	900.4	1027.4	1027.4	1040.5	1109.6
52.5°	1105.9	920.9	719.2	538.0	698.6	721.0	820.1	967.6	971.4	984.4	1046.1
55°	991.9	825.7	666.9	495.0	603.4	651.9	741.6	906.0	913.5	926.5	982.6
57.5°	887.3	687.4	655.7	444.6	515.6	562.3	672.5	846.2	849.9	861.1	915.3
60°	775.2	496.9	601.5	390.4	439.0	474.5	609.0	775.2	788.3	795.8	842.5
62.5°	648.2	360.5	545.5	353.1	401.6	409.1	556.7	708.0	724.8	730.4	758.4
65°	461.4	302.6	463.3	321.3	362.4	364.3	500.6	638.9	653.8	663.1	683.7
67.5°	312.0	246.6	353.1	291.4	332.5	334.4	446.5	558.5	579.1	586.6	599.6
70°	216.7	164.4	261.5	259.7	298.9	302.6	388.5	485.7	504.4	510.0	517.4
72.5°	158.8	132.6	216.7	233.5	263.4	267.1	328.8	403.5	422.2	427.8	431.5
75°	121.4	140.1	175.6	203.6	224.2	226.0	269.0	328.8	341.8	345.6	347.4
77.5°	97.1	130.8	128.9	164.4	183.1	179.3	211.1	254.0	265.3	265.3	265.3
80°	72.9	102.7	97.1	117.7	134.5	130.8	151.3	181.2	184.9	188.7	186.8
82.5°	54.2	65.4	65.4	74.7	89.7	85.9	100.9	117.7	117.7	117.7	121.4
85°	33.6	37.4	29.9	39.2	50.4	48.6	56.0	63.5	65.4	65.4	61.6
87.5°	20.5	16.8	9.3	14.9	22.4	22.4	26.2	28.0	26.2	26.2	26.2
90°	4.9	3.4	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4
92.5°	33.0	20.2	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4
95°	64.5	41.2	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5
97.5°	72.1	51.7	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5
100°	78.4	59.8	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5
102.5°	84.5	67.2	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9
105°	93.9	79.1	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4
107.5°	106.8	93.0	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8
110°	114.2	101.8	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6



TEST NUMBER: P933996

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	122.9	111.1	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5
115°	136.1	125.2	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2
117.5°	148.9	139.0	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7
120°	156.4	147.0	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7
122.5°	164.9	155.5	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2
125°	176.2	167.7	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1
127.5°	186.8	178.1	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5
130°	193.7	184.5	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5
132.5°	199.5	190.3	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5
135°	206.5	198.0	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6
137.5°	215.1	206.7	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5
140°	221.1	213.3	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5
142.5°	225.6	218.4	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8
145°	232.3	226.1	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0
147.5°	240.6	234.5	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5
150°	245.0	239.6	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7
152.5°	248.2	244.0	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8
155°	254.6	251.5	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2
157.5°	260.8	257.8	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2
160°	263.8	261.4	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2
162.5°	266.8	265.2	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3
165°	271.3	269.7	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4
167.5°	273.9	273.2	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9
170°	276.7	276.0	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9
172.5°	277.1	276.9	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9
175°	278.8	278.8	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5
177.5°	278.8	278.8	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P933996
 CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1905.3	1899.7	1907.1	1886.6	1907.1	1899.7	1905.3	1918.3	1907.1	1914.6	1922.1
5°	1671.8	1662.4	1632.5	1608.3	1632.5	1662.4	1671.8	1711.0	1729.7	1763.3	1808.1
7.5°	1494.3	1486.8	1479.4	1464.4	1479.4	1486.8	1494.3	1505.5	1524.2	1554.1	1587.7
10°	1455.1	1456.9	1468.2	1466.3	1468.2	1456.9	1455.1	1451.3	1445.7	1451.3	1471.9
12.5°	1556.0	1572.8	1634.4	1630.7	1634.4	1572.8	1556.0	1481.2	1430.8	1421.5	1425.2
15°	1671.8	1677.4	1690.4	1692.3	1690.4	1677.4	1671.8	1641.9	1490.6	1425.2	1404.6
17.5°	1683.0	1684.8	1694.2	1694.2	1694.2	1684.8	1683.0	1669.9	1619.5	1531.7	1415.9
20°	1673.6	1677.4	1696.1	1699.8	1696.1	1677.4	1673.6	1656.8	1628.8	1597.0	1509.3
22.5°	1669.9	1677.4	1692.3	1690.4	1692.3	1677.4	1669.9	1643.7	1619.5	1597.0	1561.6
25°	1651.2	1651.2	1653.1	1655.0	1653.1	1651.2	1651.2	1630.7	1582.1	1576.5	1556.0
27.5°	1612.0	1615.7	1626.9	1625.1	1626.9	1615.7	1612.0	1604.5	1552.2	1546.6	1531.7
30°	1576.5	1572.8	1563.4	1556.0	1563.4	1572.8	1576.5	1565.3	1513.0	1498.0	1501.8
32.5°	1516.7	1507.4	1498.0	1492.4	1498.0	1507.4	1516.7	1513.0	1473.8	1453.2	1456.9
35°	1445.7	1447.6	1445.7	1440.1	1445.7	1447.6	1445.7	1449.5	1425.2	1406.5	1404.6
37.5°	1395.3	1399.0	1397.2	1389.7	1397.2	1399.0	1395.3	1391.6	1357.9	1352.3	1356.1
40°	1343.0	1344.9	1343.0	1337.4	1343.0	1344.9	1343.0	1335.5	1288.8	1290.7	1303.8
42.5°	1292.6	1290.7	1285.1	1281.4	1285.1	1290.7	1292.6	1281.4	1221.6	1216.0	1240.3
45°	1234.7	1236.5	1225.3	1219.7	1225.3	1236.5	1234.7	1227.2	1165.5	1150.6	1167.4
47.5°	1176.7	1176.7	1167.4	1161.8	1167.4	1176.7	1176.7	1167.4	1102.1	1087.2	1096.5
50°	1115.1	1113.3	1100.3	1098.4	1100.3	1113.3	1115.1	1109.6	1040.5	1027.4	1027.4
52.5°	1044.2	1044.2	1046.1	1049.8	1046.1	1044.2	1044.2	1046.1	984.4	971.4	967.6
55°	982.6	984.4	997.5	1001.2	997.5	984.4	982.6	982.6	926.5	913.5	906.0
57.5°	919.1	919.1	928.4	928.4	928.4	919.1	919.1	915.3	861.1	849.9	846.2
60°	846.2	849.9	857.4	855.5	857.4	849.9	846.2	842.5	795.8	788.3	775.2
62.5°	769.6	773.4	775.2	771.5	775.2	773.4	769.6	758.4	730.4	724.8	708.0
65°	689.3	693.0	694.9	691.2	694.9	693.0	689.3	683.7	663.1	653.8	638.9
67.5°	607.1	605.2	603.4	610.8	603.4	605.2	607.1	599.6	586.6	579.1	558.5
70°	523.0	523.0	521.2	524.9	521.2	523.0	523.0	517.4	510.0	504.4	485.7
72.5°	433.4	431.5	439.0	433.4	439.0	431.5	433.4	431.5	427.8	422.2	403.5
75°	345.6	349.3	345.6	351.2	345.6	349.3	345.6	347.4	345.6	341.8	328.8
77.5°	263.4	267.1	263.4	263.4	263.4	267.1	263.4	265.3	265.3	265.3	254.0
80°	186.8	184.9	184.9	183.1	184.9	184.9	186.8	186.8	188.7	184.9	181.2
82.5°	119.6	117.7	117.7	121.4	117.7	117.7	119.6	121.4	117.7	117.7	117.7
85°	65.4	67.2	63.5	63.5	63.5	67.2	65.4	61.6	65.4	65.4	63.5
87.5°	24.3	22.4	22.4	22.4	22.4	22.4	24.3	26.2	26.2	26.2	28.0
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2
92.5°	35.6	34.2	28.5	22.8	28.5	34.2	35.6	50.4	70.1	80.0	70.3
95°	120.7	116.4	99.3	82.1	99.3	116.4	120.7	158.5	208.8	234.1	197.6
97.5°	278.6	270.5	237.8	205.2	237.8	270.5	278.6	302.5	334.4	350.2	289.5
100°	391.3	381.5	342.7	303.8	342.7	381.5	391.3	389.5	387.1	385.9	318.6
102.5°	487.4	479.0	445.8	412.5	445.8	479.0	487.4	456.9	416.4	396.1	327.8
105°	599.6	595.1	577.3	559.4	577.3	595.1	599.6	531.4	440.5	395.0	328.9
107.5°	658.0	659.1	663.4	667.7	663.4	659.1	658.0	562.8	435.9	372.5	314.2
110°	672.9	677.6	696.2	714.9	696.2	677.6	672.9	566.6	424.7	353.8	301.2



TEST NUMBER: P933996

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	663.4	670.6	699.2	727.8	699.2	670.6	663.4	554.5	409.4	336.8	289.9
115°	631.1	641.0	680.7	720.3	680.7	641.0	631.1	526.2	386.3	316.3	276.9
117.5°	586.4	597.4	641.4	685.4	641.4	597.4	586.4	491.7	365.5	302.3	268.8
120°	556.2	566.8	609.6	652.4	609.6	566.8	556.2	469.7	354.4	296.7	266.1
122.5°	526.1	536.7	578.8	620.9	578.8	536.7	526.1	448.2	344.4	292.4	264.6
125°	486.2	496.0	534.8	573.7	534.8	496.0	486.2	420.1	331.9	287.8	263.5
127.5°	454.3	462.5	495.2	528.0	495.2	462.5	454.3	397.5	321.8	283.8	262.7
130°	434.0	441.6	471.9	502.1	471.9	441.6	434.0	383.5	316.1	282.3	263.2
132.5°	416.8	423.7	450.7	477.8	450.7	423.7	416.8	371.5	311.2	281.0	263.5
135°	392.6	398.4	421.7	445.1	421.7	398.4	392.6	354.6	304.1	278.8	263.2
137.5°	374.5	379.3	398.4	417.6	398.4	379.3	374.5	342.5	299.8	278.4	264.8
140°	360.2	364.6	382.5	400.4	382.5	364.6	360.2	332.5	295.6	277.1	265.1
142.5°	350.1	353.9	369.3	384.6	369.3	353.9	350.1	325.8	293.4	277.1	266.1
145°	334.9	337.8	349.5	361.1	349.5	337.8	334.9	315.0	288.5	275.2	266.1
147.5°	322.1	324.6	334.2	343.9	334.2	324.6	322.1	306.5	285.7	275.2	267.9
150°	314.9	316.8	324.7	332.5	324.7	316.8	314.9	301.7	284.0	275.2	268.8
152.5°	309.1	310.6	316.4	322.3	316.4	310.6	309.1	297.8	282.7	275.2	269.5
155°	302.1	303.1	307.0	310.9	307.0	303.1	302.1	293.2	281.2	275.2	270.9
157.5°	296.2	296.8	299.6	302.3	299.6	296.8	296.2	289.2	279.9	275.2	272.2
160°	293.2	293.6	295.1	296.7	295.1	293.6	293.2	287.2	279.3	275.2	272.8
162.5°	290.4	290.8	292.2	293.7	292.2	290.8	290.4	285.3	278.6	275.2	273.5
165°	286.1	286.5	288.0	289.6	288.0	286.5	286.1	282.4	277.7	275.2	274.5
167.5°	284.2	284.4	285.1	285.7	285.1	284.4	284.2	281.9	278.7	277.1	276.5
170°	284.2	284.2	284.2	284.2	284.2	284.2	284.2	281.9	278.7	277.1	277.1
172.5°	282.7	282.5	282.0	281.4	282.0	282.5	282.7	280.9	278.3	277.1	277.1
175°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	279.5	277.9	277.1	277.5
177.5°	280.3	280.1	279.5	278.8	279.5	280.1	280.3	279.4	278.1	277.5	277.8
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P933996

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1950.1	1959.4	1965.0	1972.5	1991.2
5°	1875.4	1910.9	1922.1	1950.1	1983.7
7.5°	1711.0	1819.3	1849.2	1916.5	1968.8
10°	1552.2	1660.6	1712.9	1871.6	1950.1
12.5°	1471.9	1535.4	1570.9	1793.2	1923.9
15°	1421.5	1466.3	1492.4	1688.6	1894.1
17.5°	1382.2	1414.0	1432.7	1585.8	1853.0
20°	1357.9	1372.9	1389.7	1511.1	1806.3
22.5°	1341.1	1331.8	1344.9	1458.8	1742.8
25°	1329.9	1294.4	1309.4	1417.7	1668.0
27.5°	1339.3	1260.8	1266.4	1380.4	1589.6
30°	1341.1	1219.7	1221.6	1341.1	1501.8
32.5°	1328.1	1176.7	1178.6	1292.6	1402.8
35°	1296.3	1126.3	1124.4	1236.5	1268.3
37.5°	1253.3	1072.2	1072.2	1174.9	1120.7
40°	1201.0	1018.1	1023.7	1094.6	990.0
42.5°	1137.5	960.2	967.6	988.2	892.9
45°	1068.5	904.1	909.7	835.0	818.2
47.5°	991.9	846.2	848.1	693.0	793.9
50°	900.4	786.4	779.0	594.0	792.0
52.5°	820.1	721.0	698.6	538.0	719.2
55°	741.6	651.9	603.4	495.0	666.9
57.5°	672.5	562.3	515.6	444.6	655.7
60°	609.0	474.5	439.0	390.4	601.5
62.5°	556.7	409.1	401.6	353.1	545.5
65°	500.6	364.3	362.4	321.3	463.3
67.5°	446.5	334.4	332.5	291.4	353.1
70°	388.5	302.6	298.9	259.7	261.5
72.5°	328.8	267.1	263.4	233.5	216.7
75°	269.0	226.0	224.2	203.6	175.6
77.5°	211.1	179.3	183.1	164.4	128.9
80°	151.3	130.8	134.5	117.7	97.1
82.5°	100.9	85.9	89.7	74.7	65.4
85°	56.0	48.6	50.4	39.2	29.9
87.5°	26.2	22.4	22.4	14.9	9.3
90°	8.2	5.2	4.9	3.4	1.9
92.5°	50.8	36.1	33.0	20.2	7.5
95°	124.9	70.3	64.5	41.2	17.9
97.5°	168.2	77.2	72.1	51.7	31.1
100°	184.0	83.0	78.4	59.8	41.2
102.5°	191.3	88.8	84.5	67.2	49.8
105°	196.7	97.5	93.9	79.1	64.4
107.5°	197.6	110.2	106.8	93.0	79.3
110°	196.1	117.3	114.2	101.8	89.5



TEST NUMBER: P933996

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.2	125.9	122.9	111.1	99.4
115°	198.0	138.8	136.1	125.2	114.3
117.5°	201.7	151.4	148.9	139.0	129.1
120°	204.7	158.7	156.4	147.0	137.7
122.5°	209.0	167.3	164.9	155.5	146.1
125°	214.8	178.3	176.2	167.7	159.1
127.5°	220.6	188.9	186.8	178.1	169.5
130°	224.8	196.0	193.7	184.5	175.1
132.5°	228.3	201.8	199.5	190.3	180.9
135°	232.0	208.7	206.5	198.0	189.5
137.5°	237.6	217.2	215.1	206.7	198.3
140°	241.1	223.0	221.1	213.3	205.6
142.5°	244.0	227.3	225.6	218.4	211.3
145°	247.7	233.9	232.3	226.1	219.9
147.5°	253.1	242.1	240.6	234.5	228.5
150°	256.0	246.4	245.0	239.6	234.1
152.5°	257.9	249.2	248.2	244.0	239.9
155°	262.0	255.4	254.6	251.5	248.4
157.5°	266.1	261.5	260.8	257.8	254.8
160°	268.0	264.3	263.8	261.4	259.1
162.5°	269.9	267.3	266.8	265.2	263.4
165°	272.9	271.7	271.3	269.7	268.2
167.5°	275.2	274.1	273.9	273.2	272.4
170°	277.0	276.9	276.7	276.0	275.2
172.5°	277.1	277.1	277.1	276.9	276.7
175°	278.2	278.8	278.8	278.8	278.8
177.5°	278.3	278.8	278.8	278.8	278.8
180°	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P933996
 CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-5000K

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	14.47	15.59	15.19	16.34	17.22	17.31	18.43	18.03	19.17	20.06
	3H	14.96	15.98	15.70	16.73	17.64	18.67	19.69	19.41	20.44	21.35
	4H	15.17	16.12	15.92	16.88	17.81	19.13	20.09	19.88	20.85	21.77
	6H	15.30	16.18	16.07	16.95	17.89	19.43	20.31	20.20	21.08	22.02
	8H	15.31	16.15	16.09	16.94	17.88	19.51	20.35	20.29	21.14	22.09
	12H	15.29	16.09	16.07	16.87	17.84	19.56	20.36	20.35	21.15	22.12
4H	2H	15.53	16.49	16.29	17.25	18.18	17.75	18.70	18.50	19.46	20.39
	3H	16.59	17.38	17.35	18.18	19.12	19.28	20.07	20.05	20.87	21.82
	4H	16.87	17.60	17.66	18.39	19.37	19.82	20.54	20.60	21.34	22.31
	6H	17.01	17.64	17.81	18.46	19.44	20.20	20.83	21.00	21.65	22.63
	8H	17.02	17.61	17.83	18.43	19.42	20.32	20.90	21.12	21.72	22.71
	12H	17.00	17.53	17.83	18.37	19.37	20.39	20.91	21.21	21.75	22.75
8H	4H	17.35	17.93	18.15	18.75	19.74	19.96	20.55	20.77	21.37	22.36
	6H	17.62	18.11	18.46	18.96	19.96	20.41	20.90	21.25	21.76	22.75
	8H	17.67	18.10	18.51	18.95	19.96	20.57	21.00	21.42	21.86	22.87
	12H	17.66	18.04	18.51	18.89	19.95	20.68	21.06	21.53	21.91	22.97
12H	4H	17.37	17.89	18.19	18.73	19.73	19.94	20.47	20.77	21.31	22.30
	6H	17.68	18.12	18.53	18.97	19.98	20.41	20.84	21.26	21.70	22.71
	8H	17.76	18.14	18.61	18.99	20.06	20.59	20.97	21.44	21.82	22.88