

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: P933945

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

**Test Information**

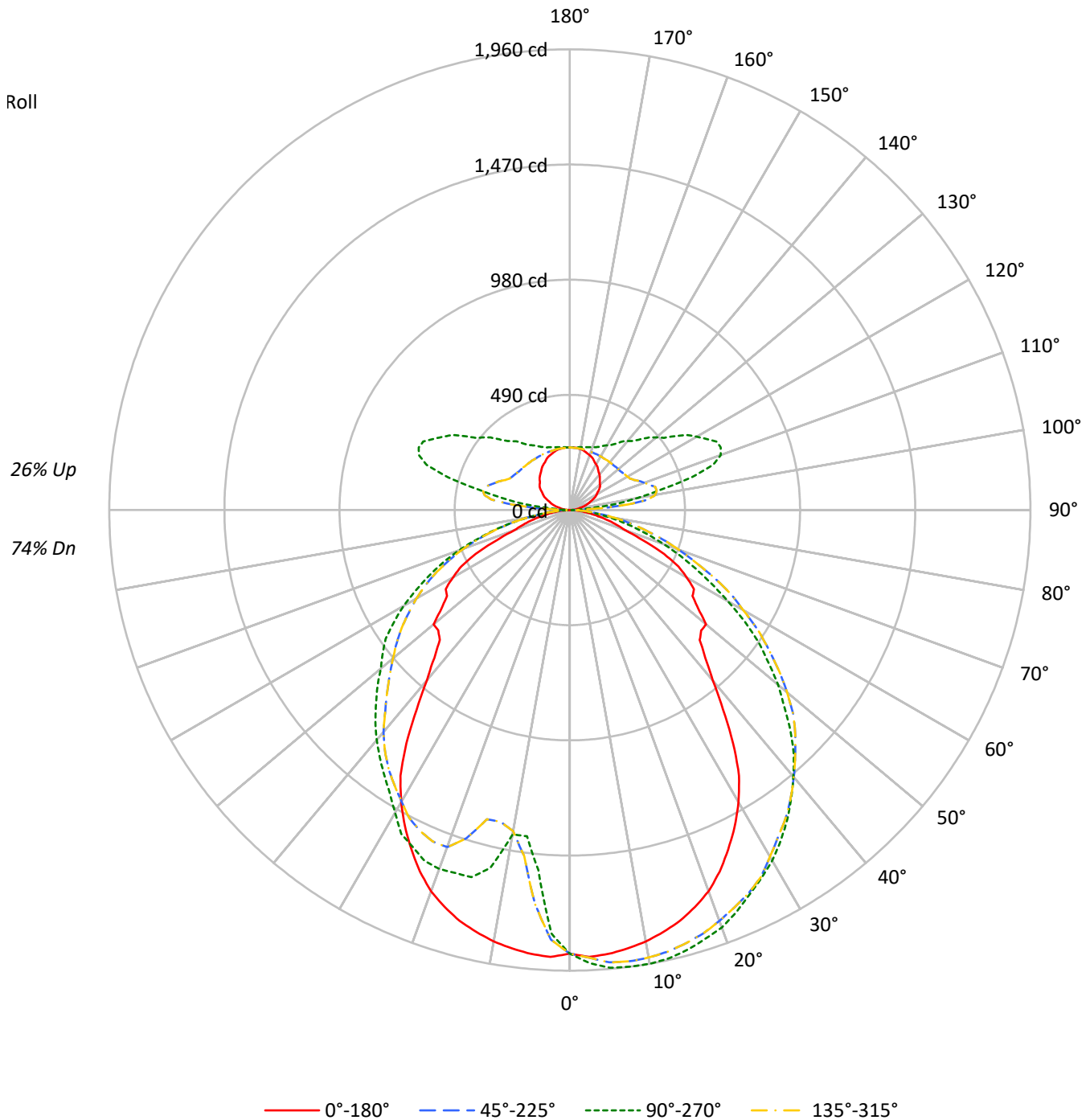
Test Method: LM-79-2019  
Report Number: P933945  
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6620.6 lumens  
Efficiency: N/A  
Efficacy: 110.3 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	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°	8754	8754	8754	8754
5°	8820	8837	8820	6949
10°	8761	8705	8761	6223
15°	8665	8517	8665	7111
20°	8484	8293	8484	7126
25°	8113	7967	8113	6975
30°	7634	7697	7634	6644
35°	6806	7355	6806	6279
40°	5671	6952	5671	6004
45°	5067	6480	5067	5687
50°	5383	5917	5383	5370
55°	5065	5312	5065	5186
60°	5221	4512	5221	4750
65°	4733	3729	4733	4169
70°	3277	2972	3277	3495
75°	2874	2197	2874	2631
80°	2315	1453	2315	1582
85°	1332	769	1332	654

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7766 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	2.6
10°-20°	483.6	7.3
20°-30°	747.6	11.3
30°-40°	892.4	13.5
40°-50°	897.7	13.6
50°-60°	781.1	11.8
60°-70°	553.8	8.4
70°-80°	293.0	4.4
80°-90°	74.0	1.1
90°-100°	129.9	2.0
100°-110°	341.4	5.2
110°-120°	354.0	5.3
120°-130°	284.0	4.3
130°-140°	222.8	3.4
140°-150°	171.0	2.6
150°-160°	123.2	1.9
160°-170°	75.4	1.1
170°-180°	25.5	0.4
0°-30°	1401.5	21.2
0°-40°	2293.9	34.6
0°-60°	3972.7	60.0
0°-90°	4893.5	73.9
90°-120°	825.3	12.5
90°-150°	1503.1	22.7
90°-180°	1727.0	26.1
0°-180°	6620.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1887	1887	1887	1887	1887	
5°	1896	1955	1896	1537	1896	180
15°	1810	1937	1810	1617	1810	509
25°	1594	1807	1594	1582	1594	732
35°	1212	1612	1212	1376	1212	750
45°	782	1328	782	1166	782	626
55°	637	980	637	957	637	586
65°	443	591	443	660	443	423
75°	168	280	168	336	168	176
85°	29	71	29	61	29	39
90°	2	7	2	7	2	3
95°	17	78	17	78	17	19
105°	62	535	62	535	62	65
115°	109	688	109	688	109	108
125°	152	548	152	548	152	135
135°	181	425	181	425	181	140
145°	210	345	210	345	210	132
155°	237	297	237	297	237	109
165°	256	277	256	277	256	72
175°	266	268	266	268	266	25
180°	266	266	266	266	266	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1903.0	1903.0	1913.7	1917.3	1917.3	1911.9	1906.5	1911.9	1928.0	1933.3	1931.5
5°	1895.8	1910.1	1929.8	1933.3	1936.9	1935.1	1931.5	1935.1	1953.0	1956.5	1958.3
7.5°	1881.6	1908.3	1933.3	1938.7	1944.0	1938.7	1936.9	1940.5	1958.3	1961.9	1961.9
10°	1863.7	1901.2	1929.8	1933.3	1938.7	1933.3	1933.3	1940.5	1958.3	1961.9	1963.7
12.5°	1838.7	1890.5	1917.3	1920.8	1928.0	1926.2	1924.4	1931.5	1949.4	1953.0	1953.0
15°	1810.1	1870.8	1895.8	1899.4	1911.9	1908.3	1908.3	1915.5	1935.1	1940.5	1938.7
17.5°	1770.9	1845.8	1874.4	1879.8	1888.7	1886.9	1888.7	1895.8	1913.7	1917.3	1919.0
20°	1726.2	1811.9	1845.8	1851.2	1860.1	1860.1	1860.1	1869.1	1886.9	1894.1	1894.1
22.5°	1665.5	1776.2	1811.9	1815.5	1826.2	1826.2	1829.8	1842.3	1858.3	1860.1	1860.1
25°	1594.1	1736.9	1767.3	1778.0	1788.7	1794.1	1799.4	1806.6	1811.9	1810.1	1811.9
27.5°	1519.1	1687.0	1726.2	1733.4	1747.7	1753.0	1760.2	1761.9	1763.7	1769.1	1765.5
30°	1435.2	1617.3	1676.3	1683.4	1706.6	1710.2	1703.0	1706.6	1715.5	1719.1	1722.7
32.5°	1340.6	1513.8	1624.5	1640.5	1662.0	1651.3	1649.5	1654.8	1669.1	1669.1	1672.7
35°	1212.1	1433.5	1576.3	1590.6	1606.6	1594.1	1601.3	1603.1	1612.0	1617.3	1615.6
37.5°	1071.1	1363.8	1526.3	1537.0	1549.5	1533.4	1544.1	1549.5	1556.6	1553.1	1553.1
40°	946.2	1254.9	1467.4	1474.5	1485.2	1472.7	1483.4	1487.0	1490.6	1487.0	1485.2
42.5°	853.3	1135.3	1404.9	1413.8	1406.7	1415.6	1419.2	1426.3	1421.0	1413.8	1413.8
45°	781.9	1103.2	1337.1	1347.8	1337.1	1351.3	1356.7	1356.7	1340.6	1337.1	1335.3
47.5°	758.7	1039.0	1269.2	1269.2	1263.9	1281.7	1290.6	1278.1	1262.1	1256.7	1256.7
50°	756.9	967.6	1176.4	1169.2	1194.2	1215.7	1206.7	1194.2	1181.7	1162.1	1162.1
52.5°	687.3	880.1	1056.9	1083.6	1122.8	1135.3	1121.0	1108.5	1087.1	1078.2	1071.1
55°	637.3	789.1	948.0	1001.5	1042.6	1058.6	1031.9	1019.4	987.2	981.9	978.3
57.5°	626.6	657.0	848.0	915.8	965.8	964.0	948.0	924.8	898.0	892.6	890.8
60°	574.8	474.9	740.9	821.2	873.0	867.6	853.3	831.9	806.9	803.4	799.8
62.5°	521.3	344.6	619.5	710.5	783.7	781.9	769.4	737.3	719.5	710.5	703.4
65°	442.7	289.2	441.0	590.9	696.2	699.8	673.0	649.8	630.2	619.5	617.7
67.5°	337.4	235.7	298.1	492.7	612.3	608.8	574.8	564.1	539.1	533.8	523.1
70°	249.9	157.1	207.1	399.9	530.2	521.3	494.5	482.0	458.8	446.3	439.2
72.5°	207.1	126.8	151.7	310.6	446.3	435.6	412.4	398.1	378.5	367.8	360.6
75°	167.8	133.9	116.0	230.3	362.4	355.3	333.8	319.6	303.5	289.2	291.0
77.5°	123.2	125.0	92.8	169.6	287.4	276.7	264.2	246.4	239.2	224.9	224.9
80°	92.8	98.2	69.6	116.0	207.1	207.1	196.4	183.9	171.4	164.2	164.2
82.5°	62.5	62.5	51.8	73.2	141.0	135.7	128.5	125.0	117.8	114.3	114.3
85°	28.6	35.7	32.1	44.6	76.8	80.3	80.3	76.8	75.0	71.4	73.2
87.5°	8.9	16.1	19.6	25.0	39.3	41.1	42.8	42.8	42.8	44.6	44.6
90°	1.8	3.2	4.6	5.0	7.9	11.7	13.6	12.1	9.0	6.8	6.8
92.5°	7.1	19.3	31.5	34.5	48.6	67.2	76.5	67.0	48.2	34.0	32.7
95°	17.1	39.4	61.7	67.2	119.3	188.9	223.7	199.6	151.5	115.3	111.2
97.5°	29.7	49.4	68.9	73.8	160.8	276.7	334.7	319.6	289.1	266.3	258.5
100°	39.4	57.1	74.9	79.4	175.8	304.5	368.8	370.0	372.2	373.9	364.6
102.5°	47.6	64.2	80.8	84.9	182.8	313.3	378.6	397.9	436.7	465.8	457.8
105°	61.5	75.6	89.7	93.2	188.0	314.3	377.5	421.0	507.9	573.1	568.8
107.5°	75.8	88.9	102.0	105.3	188.9	300.3	356.0	416.6	537.9	628.9	629.9
110°	85.5	97.3	109.2	112.1	187.5	287.9	338.1	405.9	541.5	643.1	647.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.0	106.2	117.5	120.3	187.5	277.1	321.9	391.2	529.9	634.0	640.9
115°	109.3	119.6	130.1	132.6	189.2	264.7	302.3	369.2	502.9	603.1	612.6
117.5°	123.4	132.8	142.3	144.7	192.8	256.9	288.9	349.3	469.9	560.4	570.9
120°	131.6	140.5	149.4	151.7	195.7	254.3	283.6	338.7	448.9	531.6	541.7
122.5°	139.6	148.6	157.6	159.9	199.8	252.9	279.5	329.1	428.4	502.8	512.9
125°	152.0	160.2	168.3	170.4	205.3	251.8	275.0	317.1	401.5	464.7	474.0
127.5°	162.0	170.2	178.5	180.6	210.8	251.1	271.3	307.5	379.9	434.2	442.0
130°	167.4	176.3	185.1	187.4	214.9	251.5	269.8	302.1	366.5	414.8	422.0
132.5°	172.9	181.8	190.7	192.9	218.2	251.8	268.6	297.4	355.1	398.4	404.9
135°	181.1	189.2	197.4	199.4	221.7	251.5	266.4	290.6	338.9	375.2	380.7
137.5°	189.5	197.5	205.6	207.6	227.1	253.1	266.1	286.5	327.3	357.9	362.5
140°	196.5	203.9	211.3	213.2	230.4	253.3	264.8	282.5	317.8	344.2	348.5
142.5°	201.9	208.7	215.6	217.3	233.2	254.3	264.8	280.4	311.3	334.6	338.2
145°	210.1	216.1	222.0	223.5	236.7	254.3	263.1	275.7	301.1	320.1	322.9
147.5°	218.3	224.1	229.9	231.4	241.9	256.0	263.1	273.1	293.0	307.9	310.2
150°	223.7	229.0	234.1	235.5	244.7	256.9	263.1	271.4	288.3	300.9	302.8
152.5°	229.2	233.2	237.2	238.2	246.5	257.5	263.1	270.2	284.6	295.4	296.8
155°	237.4	240.4	243.3	244.0	250.4	258.9	263.1	268.8	280.2	288.8	289.7
157.5°	243.5	246.4	249.2	249.9	254.3	260.1	263.1	267.5	276.4	283.0	283.7
160°	247.6	249.8	252.1	252.6	256.1	260.7	263.1	266.9	274.5	280.2	280.6
162.5°	251.7	253.4	255.0	255.5	258.0	261.4	263.1	266.3	272.7	277.5	277.9
165°	256.3	257.8	259.3	259.7	260.8	262.3	263.1	265.4	269.9	273.4	273.8
167.5°	260.4	261.1	261.8	262.0	263.0	264.2	264.8	266.4	269.4	271.6	271.8
170°	263.1	263.8	264.5	264.7	264.8	264.8	264.8	266.4	269.4	271.6	271.6
172.5°	264.5	264.7	264.8	264.8	264.8	264.8	264.8	266.0	268.4	270.2	270.0
175°	266.4	266.4	266.4	266.4	265.9	265.2	264.8	265.6	267.1	268.2	268.2
177.5°	266.4	266.4	266.4	266.4	266.0	265.5	265.2	265.8	267.0	267.9	267.7
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1935.1	1929.8	1935.1	1931.5	1933.3	1928.0	1911.9	1906.5	1911.9	1917.3	1917.3
5°	1958.3	1954.7	1958.3	1958.3	1956.5	1953.0	1935.1	1931.5	1935.1	1936.9	1933.3
7.5°	1965.5	1960.1	1965.5	1961.9	1961.9	1958.3	1940.5	1936.9	1938.7	1944.0	1938.7
10°	1965.5	1960.1	1965.5	1963.7	1961.9	1958.3	1940.5	1933.3	1933.3	1938.7	1933.3
12.5°	1956.5	1953.0	1956.5	1953.0	1953.0	1949.4	1931.5	1924.4	1926.2	1928.0	1920.8
15°	1942.3	1936.9	1942.3	1938.7	1940.5	1935.1	1915.5	1908.3	1908.3	1911.9	1899.4
17.5°	1920.8	1913.7	1920.8	1919.0	1917.3	1913.7	1895.8	1888.7	1886.9	1888.7	1879.8
20°	1895.8	1890.5	1895.8	1894.1	1894.1	1886.9	1869.1	1860.1	1860.1	1860.1	1851.2
22.5°	1856.6	1851.2	1856.6	1860.1	1860.1	1858.3	1842.3	1829.8	1826.2	1826.2	1815.5
25°	1811.9	1806.6	1811.9	1811.9	1810.1	1811.9	1806.6	1799.4	1794.1	1788.7	1778.0
27.5°	1769.1	1765.5	1769.1	1765.5	1769.1	1763.7	1761.9	1760.2	1753.0	1747.7	1733.4
30°	1726.2	1722.7	1726.2	1722.7	1719.1	1715.5	1706.6	1703.0	1710.2	1706.6	1683.4
32.5°	1672.7	1669.1	1672.7	1672.7	1669.1	1669.1	1654.8	1649.5	1651.3	1662.0	1640.5
35°	1617.3	1612.0	1617.3	1615.6	1617.3	1612.0	1603.1	1601.3	1594.1	1606.6	1590.6
37.5°	1553.1	1547.7	1553.1	1553.1	1553.1	1556.6	1549.5	1544.1	1533.4	1549.5	1537.0
40°	1487.0	1479.9	1487.0	1485.2	1487.0	1490.6	1487.0	1483.4	1472.7	1485.2	1474.5
42.5°	1412.0	1410.3	1412.0	1413.8	1413.8	1421.0	1426.3	1419.2	1415.6	1406.7	1413.8
45°	1331.7	1328.1	1331.7	1335.3	1337.1	1340.6	1356.7	1356.7	1351.3	1337.1	1347.8
47.5°	1246.0	1237.1	1246.0	1256.7	1256.7	1262.1	1278.1	1290.6	1281.7	1263.9	1269.2
50°	1155.0	1156.7	1155.0	1162.1	1162.1	1181.7	1194.2	1206.7	1215.7	1194.2	1169.2
52.5°	1065.7	1064.0	1065.7	1071.1	1078.2	1087.1	1108.5	1121.0	1135.3	1122.8	1083.6
55°	976.5	980.1	976.5	978.3	981.9	987.2	1019.4	1031.9	1058.6	1042.6	1001.5
57.5°	887.3	881.9	887.3	890.8	892.6	898.0	924.8	948.0	964.0	965.8	915.8
60°	783.7	776.6	783.7	799.8	803.4	806.9	831.9	853.3	867.6	873.0	821.2
62.5°	692.7	680.2	692.7	703.4	710.5	719.5	737.3	769.4	781.9	783.7	710.5
65°	596.3	590.9	596.3	617.7	619.5	630.2	649.8	673.0	699.8	696.2	590.9
67.5°	508.8	508.8	508.8	523.1	533.8	539.1	564.1	574.8	608.8	612.3	492.7
70°	428.5	426.7	428.5	439.2	446.3	458.8	482.0	494.5	521.3	530.2	399.9
72.5°	351.7	349.9	351.7	360.6	367.8	378.5	398.1	412.4	435.6	446.3	310.6
75°	283.9	280.3	283.9	291.0	289.2	303.5	319.6	333.8	355.3	362.4	230.3
77.5°	217.8	217.8	217.8	224.9	224.9	239.2	246.4	264.2	276.7	287.4	169.6
80°	162.5	160.7	162.5	164.2	164.2	171.4	183.9	196.4	207.1	207.1	116.0
82.5°	114.3	110.7	114.3	114.3	114.3	117.8	125.0	128.5	135.7	141.0	73.2
85°	71.4	71.4	71.4	73.2	71.4	75.0	76.8	80.3	80.3	76.8	44.6
87.5°	46.4	44.6	46.4	44.6	44.6	42.8	42.8	42.8	41.1	39.3	25.0
90°	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7	7.9	5.0
92.5°	27.2	21.8	27.2	32.7	34.0	48.2	67.0	76.5	67.2	48.6	34.5
95°	94.9	78.5	94.9	111.2	115.3	151.5	199.6	223.7	188.9	119.3	67.2
97.5°	227.3	196.1	227.3	258.5	266.3	289.1	319.6	334.7	276.7	160.8	73.8
100°	327.5	290.4	327.5	364.6	373.9	372.2	370.0	368.8	304.5	175.8	79.4
102.5°	426.0	394.3	426.0	457.8	465.8	436.7	397.9	378.6	313.3	182.8	84.9
105°	551.7	534.6	551.7	568.8	573.1	507.9	421.0	377.5	314.3	188.0	93.2
107.5°	634.0	638.1	634.0	629.9	628.9	537.9	416.6	356.0	300.3	188.9	105.3
110°	665.4	683.2	665.4	647.6	643.1	541.5	405.9	338.1	287.9	187.5	112.1





TEST NUMBER: P933945

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	668.2	695.5	668.2	640.9	634.0	529.9	391.2	321.9	277.1	187.5	120.3
115°	650.5	688.4	650.5	612.6	603.1	502.9	369.2	302.3	264.7	189.2	132.6
117.5°	613.0	655.0	613.0	570.9	560.4	469.9	349.3	288.9	256.9	192.8	144.7
120°	582.6	623.5	582.6	541.7	531.6	448.9	338.7	283.6	254.3	195.7	151.7
122.5°	553.2	593.4	553.2	512.9	502.8	428.4	329.1	279.5	252.9	199.8	159.9
125°	511.1	548.2	511.1	474.0	464.7	401.5	317.1	275.0	251.8	205.3	170.4
127.5°	473.3	504.6	473.3	442.0	434.2	379.9	307.5	271.3	251.1	210.8	180.6
130°	451.0	479.9	451.0	422.0	414.8	366.5	302.1	269.8	251.5	214.9	187.4
132.5°	430.8	456.7	430.8	404.9	398.4	355.1	297.4	268.6	251.8	218.2	192.9
135°	403.0	425.3	403.0	380.7	375.2	338.9	290.6	266.4	251.5	221.7	199.4
137.5°	380.8	399.1	380.8	362.5	357.9	327.3	286.5	266.1	253.1	227.1	207.6
140°	365.5	382.7	365.5	348.5	344.2	317.8	282.5	264.8	253.3	230.4	213.2
142.5°	352.9	367.6	352.9	338.2	334.6	311.3	280.4	264.8	254.3	233.2	217.3
145°	334.0	345.1	334.0	322.9	320.1	301.1	275.7	263.1	254.3	236.7	223.5
147.5°	319.4	328.7	319.4	310.2	307.9	293.0	273.1	263.1	256.0	241.9	231.4
150°	310.3	317.8	310.3	302.8	300.9	288.3	271.4	263.1	256.9	244.7	235.5
152.5°	302.4	308.0	302.4	296.8	295.4	284.6	270.2	263.1	257.5	246.5	238.2
155°	293.4	297.2	293.4	289.7	288.8	280.2	268.8	263.1	258.9	250.4	244.0
157.5°	286.4	288.9	286.4	283.7	283.0	276.4	267.5	263.1	260.1	254.3	249.9
160°	282.1	283.6	282.1	280.6	280.2	274.5	266.9	263.1	260.7	256.1	252.6
162.5°	279.3	280.7	279.3	277.9	277.5	272.7	266.3	263.1	261.4	258.0	255.5
165°	275.3	276.8	275.3	273.8	273.4	269.9	265.4	263.1	262.3	260.8	259.7
167.5°	272.4	273.1	272.4	271.8	271.6	269.4	266.4	264.8	264.2	263.0	262.0
170°	271.6	271.6	271.6	271.6	271.6	269.4	266.4	264.8	264.8	264.8	264.7
172.5°	269.5	268.9	269.5	270.0	270.2	268.4	266.0	264.8	264.8	264.8	264.8
175°	268.2	268.2	268.2	268.2	268.2	267.1	265.6	264.8	265.2	265.9	266.4
177.5°	267.1	266.4	267.1	267.7	267.9	267.0	265.8	265.2	265.5	266.0	266.4
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



TEST NUMBER: P933945

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1913.7	1903.0	1903.0	1885.1	1878.0	1872.6	1863.7	1836.9	1829.8	1822.6	1833.4
5°	1929.8	1910.1	1895.8	1863.7	1836.9	1826.2	1792.3	1728.0	1685.2	1653.0	1635.2
7.5°	1933.3	1908.3	1881.6	1831.6	1767.3	1738.7	1635.2	1517.4	1485.2	1456.7	1438.8
10°	1929.8	1901.2	1863.7	1788.7	1637.0	1587.0	1483.4	1406.7	1387.0	1381.7	1387.0
12.5°	1917.3	1890.5	1838.7	1713.7	1501.3	1467.4	1406.7	1362.0	1358.5	1367.4	1415.6
15°	1895.8	1870.8	1810.1	1613.8	1426.3	1401.3	1358.5	1342.4	1362.0	1424.5	1569.1
17.5°	1874.4	1845.8	1770.9	1515.6	1369.2	1351.3	1321.0	1353.1	1463.8	1547.7	1595.9
20°	1845.8	1811.9	1726.2	1444.2	1328.1	1312.1	1297.8	1442.4	1526.3	1556.6	1583.4
22.5°	1811.9	1776.2	1665.5	1394.2	1285.3	1272.8	1281.7	1492.4	1526.3	1547.7	1570.9
25°	1767.3	1736.9	1594.1	1354.9	1251.4	1237.1	1271.0	1487.0	1506.7	1512.0	1558.4
27.5°	1726.2	1687.0	1519.1	1319.2	1210.3	1204.9	1279.9	1463.8	1478.1	1483.4	1533.4
30°	1676.3	1617.3	1435.2	1281.7	1167.5	1165.7	1281.7	1435.2	1431.7	1446.0	1495.9
32.5°	1624.5	1513.8	1340.6	1235.3	1126.4	1124.6	1269.2	1392.4	1388.8	1408.5	1446.0
35°	1576.3	1433.5	1212.1	1181.7	1074.6	1076.4	1238.9	1342.4	1344.2	1362.0	1385.3
37.5°	1526.3	1363.8	1071.1	1122.8	1024.7	1024.7	1197.8	1296.0	1292.4	1297.8	1329.9
40°	1467.4	1254.9	946.2	1046.2	978.3	973.0	1147.8	1246.0	1233.5	1231.7	1276.4
42.5°	1404.9	1135.3	853.3	944.4	924.8	917.6	1087.1	1185.3	1162.1	1167.5	1224.6
45°	1337.1	1103.2	781.9	798.0	869.4	864.1	1021.2	1115.7	1099.6	1113.9	1172.8
47.5°	1269.2	1039.0	758.7	662.3	810.5	808.7	948.0	1047.9	1039.0	1053.3	1115.7
50°	1176.4	967.6	756.9	567.7	744.4	751.6	860.5	981.9	981.9	994.4	1060.4
52.5°	1056.9	880.1	687.3	514.1	667.7	689.1	783.7	924.8	928.3	940.8	999.7
55°	948.0	789.1	637.3	473.1	576.6	623.0	708.7	865.8	873.0	885.5	939.0
57.5°	848.0	657.0	626.6	424.9	492.7	537.4	642.7	808.7	812.3	823.0	874.8
60°	740.9	474.9	574.8	373.1	419.5	453.5	582.0	740.9	753.4	760.5	805.1
62.5°	619.5	344.6	521.3	337.4	383.8	391.0	532.0	676.6	692.7	698.0	724.8
65°	441.0	289.2	442.7	307.1	346.3	348.1	478.4	610.6	624.8	633.8	653.4
67.5°	298.1	235.7	337.4	278.5	317.8	319.6	426.7	533.8	553.4	560.6	573.1
70°	207.1	157.1	249.9	248.1	285.6	289.2	371.3	464.2	482.0	487.4	494.5
72.5°	151.7	126.8	207.1	223.2	251.7	255.3	314.2	385.6	403.5	408.8	412.4
75°	116.0	133.9	167.8	194.6	214.2	216.0	257.1	314.2	326.7	330.3	332.1
77.5°	92.8	125.0	123.2	157.1	175.0	171.4	201.7	242.8	253.5	253.5	253.5
80°	69.6	98.2	92.8	112.5	128.5	125.0	144.6	173.2	176.7	180.3	178.5
82.5°	51.8	62.5	62.5	71.4	85.7	82.1	96.4	112.5	112.5	112.5	116.0
85°	32.1	35.7	28.6	37.5	48.2	46.4	53.6	60.7	62.5	62.5	58.9
87.5°	19.6	16.1	8.9	14.3	21.4	21.4	25.0	26.8	25.0	25.0	25.0
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.9	11.7	13.6	12.1	9.0
92.5°	31.5	19.3	7.1	19.3	31.5	34.5	48.6	67.2	76.5	67.0	48.2
95°	61.7	39.4	17.1	39.4	61.7	67.2	119.3	188.9	223.7	199.6	151.5
97.5°	68.9	49.4	29.7	49.4	68.9	73.8	160.8	276.7	334.7	319.6	289.1
100°	74.9	57.1	39.4	57.1	74.9	79.4	175.8	304.5	368.8	370.0	372.2
102.5°	80.8	64.2	47.6	64.2	80.8	84.9	182.8	313.3	378.6	397.9	436.7
105°	89.7	75.6	61.5	75.6	89.7	93.2	188.0	314.3	377.5	421.0	507.9
107.5°	102.0	88.9	75.8	88.9	102.0	105.3	188.9	300.3	356.0	416.6	537.9
110°	109.2	97.3	85.5	97.3	109.2	112.1	187.5	287.9	338.1	405.9	541.5



TEST NUMBER: P933945

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	117.5	106.2	95.0	106.2	117.5	120.3	187.5	277.1	321.9	391.2	529.9
115°	130.1	119.6	109.3	119.6	130.1	132.6	189.2	264.7	302.3	369.2	502.9
117.5°	142.3	132.8	123.4	132.8	142.3	144.7	192.8	256.9	288.9	349.3	469.9
120°	149.4	140.5	131.6	140.5	149.4	151.7	195.7	254.3	283.6	338.7	448.9
122.5°	157.6	148.6	139.6	148.6	157.6	159.9	199.8	252.9	279.5	329.1	428.4
125°	168.3	160.2	152.0	160.2	168.3	170.4	205.3	251.8	275.0	317.1	401.5
127.5°	178.5	170.2	162.0	170.2	178.5	180.6	210.8	251.1	271.3	307.5	379.9
130°	185.1	176.3	167.4	176.3	185.1	187.4	214.9	251.5	269.8	302.1	366.5
132.5°	190.7	181.8	172.9	181.8	190.7	192.9	218.2	251.8	268.6	297.4	355.1
135°	197.4	189.2	181.1	189.2	197.4	199.4	221.7	251.5	266.4	290.6	338.9
137.5°	205.6	197.5	189.5	197.5	205.6	207.6	227.1	253.1	266.1	286.5	327.3
140°	211.3	203.9	196.5	203.9	211.3	213.2	230.4	253.3	264.8	282.5	317.8
142.5°	215.6	208.7	201.9	208.7	215.6	217.3	233.2	254.3	264.8	280.4	311.3
145°	222.0	216.1	210.1	216.1	222.0	223.5	236.7	254.3	263.1	275.7	301.1
147.5°	229.9	224.1	218.3	224.1	229.9	231.4	241.9	256.0	263.1	273.1	293.0
150°	234.1	229.0	223.7	229.0	234.1	235.5	244.7	256.9	263.1	271.4	288.3
152.5°	237.2	233.2	229.2	233.2	237.2	238.2	246.5	257.5	263.1	270.2	284.6
155°	243.3	240.4	237.4	240.4	243.3	244.0	250.4	258.9	263.1	268.8	280.2
157.5°	249.2	246.4	243.5	246.4	249.2	249.9	254.3	260.1	263.1	267.5	276.4
160°	252.1	249.8	247.6	249.8	252.1	252.6	256.1	260.7	263.1	266.9	274.5
162.5°	255.0	253.4	251.7	253.4	255.0	255.5	258.0	261.4	263.1	266.3	272.7
165°	259.3	257.8	256.3	257.8	259.3	259.7	260.8	262.3	263.1	265.4	269.9
167.5°	261.8	261.1	260.4	261.1	261.8	262.0	263.0	264.2	264.8	266.4	269.4
170°	264.5	263.8	263.1	263.8	264.5	264.7	264.8	264.8	264.8	266.4	269.4
172.5°	264.8	264.7	264.5	264.7	264.8	264.8	264.8	264.8	264.8	266.0	268.4
175°	266.4	266.4	266.4	266.4	266.4	266.4	265.9	265.2	264.8	265.6	267.1
177.5°	266.4	266.4	266.4	266.4	266.4	266.4	266.0	265.5	265.2	265.8	267.0
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



TEST NUMBER: P933945

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1820.9	1815.5	1822.6	1803.0	1822.6	1815.5	1820.9	1833.4	1822.6	1829.8	1836.9
5°	1597.7	1588.8	1560.2	1537.0	1560.2	1588.8	1597.7	1635.2	1653.0	1685.2	1728.0
7.5°	1428.1	1421.0	1413.8	1399.5	1413.8	1421.0	1428.1	1438.8	1456.7	1485.2	1517.4
10°	1390.6	1392.4	1403.1	1401.3	1403.1	1392.4	1390.6	1387.0	1381.7	1387.0	1406.7
12.5°	1487.0	1503.1	1562.0	1558.4	1562.0	1503.1	1487.0	1415.6	1367.4	1358.5	1362.0
15°	1597.7	1603.1	1615.6	1617.3	1615.6	1603.1	1597.7	1569.1	1424.5	1362.0	1342.4
17.5°	1608.4	1610.2	1619.1	1619.1	1619.1	1610.2	1608.4	1595.9	1547.7	1463.8	1353.1
20°	1599.5	1603.1	1620.9	1624.5	1620.9	1603.1	1599.5	1583.4	1556.6	1526.3	1442.4
22.5°	1595.9	1603.1	1617.3	1615.6	1617.3	1603.1	1595.9	1570.9	1547.7	1526.3	1492.4
25°	1578.1	1578.1	1579.8	1581.6	1579.8	1578.1	1578.1	1558.4	1512.0	1506.7	1487.0
27.5°	1540.6	1544.1	1554.9	1553.1	1554.9	1544.1	1540.6	1533.4	1483.4	1478.1	1463.8
30°	1506.7	1503.1	1494.2	1487.0	1494.2	1503.1	1506.7	1495.9	1446.0	1431.7	1435.2
32.5°	1449.5	1440.6	1431.7	1426.3	1431.7	1440.6	1449.5	1446.0	1408.5	1388.8	1392.4
35°	1381.7	1383.5	1381.7	1376.3	1381.7	1383.5	1381.7	1385.3	1362.0	1344.2	1342.4
37.5°	1333.5	1337.1	1335.3	1328.1	1335.3	1337.1	1333.5	1329.9	1297.8	1292.4	1296.0
40°	1283.5	1285.3	1283.5	1278.1	1283.5	1285.3	1283.5	1276.4	1231.7	1233.5	1246.0
42.5°	1235.3	1233.5	1228.2	1224.6	1228.2	1233.5	1235.3	1224.6	1167.5	1162.1	1185.3
45°	1180.0	1181.7	1171.0	1165.7	1171.0	1181.7	1180.0	1172.8	1113.9	1099.6	1115.7
47.5°	1124.6	1124.6	1115.7	1110.3	1115.7	1124.6	1124.6	1115.7	1053.3	1039.0	1047.9
50°	1065.7	1064.0	1051.5	1049.7	1051.5	1064.0	1065.7	1060.4	994.4	981.9	981.9
52.5°	997.9	997.9	999.7	1003.3	999.7	997.9	997.9	999.7	940.8	928.3	924.8
55°	939.0	940.8	953.3	956.9	953.3	940.8	939.0	939.0	885.5	873.0	865.8
57.5°	878.3	878.3	887.3	887.3	887.3	878.3	878.3	874.8	823.0	812.3	808.7
60°	808.7	812.3	819.4	817.6	819.4	812.3	808.7	805.1	760.5	753.4	740.9
62.5°	735.5	739.1	740.9	737.3	740.9	739.1	735.5	724.8	698.0	692.7	676.6
65°	658.8	662.3	664.1	660.5	664.1	662.3	658.8	653.4	633.8	624.8	610.6
67.5°	580.2	578.4	576.6	583.8	576.6	578.4	580.2	573.1	560.6	553.4	533.8
70°	499.9	499.9	498.1	501.7	498.1	499.9	499.9	494.5	487.4	482.0	464.2
72.5°	414.2	412.4	419.5	414.2	419.5	412.4	414.2	412.4	408.8	403.5	385.6
75°	330.3	333.8	330.3	335.6	330.3	333.8	330.3	332.1	330.3	326.7	314.2
77.5°	251.7	255.3	251.7	251.7	251.7	255.3	251.7	253.5	253.5	253.5	242.8
80°	178.5	176.7	176.7	175.0	176.7	176.7	178.5	178.5	180.3	176.7	173.2
82.5°	114.3	112.5	112.5	116.0	112.5	112.5	114.3	116.0	112.5	112.5	112.5
85°	62.5	64.3	60.7	60.7	60.7	64.3	62.5	58.9	62.5	62.5	60.7
87.5°	23.2	21.4	21.4	21.4	21.4	21.4	23.2	25.0	25.0	25.0	26.8
90°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7
92.5°	34.0	32.7	27.2	21.8	27.2	32.7	34.0	48.2	67.0	76.5	67.2
95°	115.3	111.2	94.9	78.5	94.9	111.2	115.3	151.5	199.6	223.7	188.9
97.5°	266.3	258.5	227.3	196.1	227.3	258.5	266.3	289.1	319.6	334.7	276.7
100°	373.9	364.6	327.5	290.4	327.5	364.6	373.9	372.2	370.0	368.8	304.5
102.5°	465.8	457.8	426.0	394.3	426.0	457.8	465.8	436.7	397.9	378.6	313.3
105°	573.1	568.8	551.7	534.6	551.7	568.8	573.1	507.9	421.0	377.5	314.3
107.5°	628.9	629.9	634.0	638.1	634.0	629.9	628.9	537.9	416.6	356.0	300.3
110°	643.1	647.6	665.4	683.2	665.4	647.6	643.1	541.5	405.9	338.1	287.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	634.0	640.9	668.2	695.5	668.2	640.9	634.0	529.9	391.2	321.9	277.1
115°	603.1	612.6	650.5	688.4	650.5	612.6	603.1	502.9	369.2	302.3	264.7
117.5°	560.4	570.9	613.0	655.0	613.0	570.9	560.4	469.9	349.3	288.9	256.9
120°	531.6	541.7	582.6	623.5	582.6	541.7	531.6	448.9	338.7	283.6	254.3
122.5°	502.8	512.9	553.2	593.4	553.2	512.9	502.8	428.4	329.1	279.5	252.9
125°	464.7	474.0	511.1	548.2	511.1	474.0	464.7	401.5	317.1	275.0	251.8
127.5°	434.2	442.0	473.3	504.6	473.3	442.0	434.2	379.9	307.5	271.3	251.1
130°	414.8	422.0	451.0	479.9	451.0	422.0	414.8	366.5	302.1	269.8	251.5
132.5°	398.4	404.9	430.8	456.7	430.8	404.9	398.4	355.1	297.4	268.6	251.8
135°	375.2	380.7	403.0	425.3	403.0	380.7	375.2	338.9	290.6	266.4	251.5
137.5°	357.9	362.5	380.8	399.1	380.8	362.5	357.9	327.3	286.5	266.1	253.1
140°	344.2	348.5	365.5	382.7	365.5	348.5	344.2	317.8	282.5	264.8	253.3
142.5°	334.6	338.2	352.9	367.6	352.9	338.2	334.6	311.3	280.4	264.8	254.3
145°	320.1	322.9	334.0	345.1	334.0	322.9	320.1	301.1	275.7	263.1	254.3
147.5°	307.9	310.2	319.4	328.7	319.4	310.2	307.9	293.0	273.1	263.1	256.0
150°	300.9	302.8	310.3	317.8	310.3	302.8	300.9	288.3	271.4	263.1	256.9
152.5°	295.4	296.8	302.4	308.0	302.4	296.8	295.4	284.6	270.2	263.1	257.5
155°	288.8	289.7	293.4	297.2	293.4	289.7	288.8	280.2	268.8	263.1	258.9
157.5°	283.0	283.7	286.4	288.9	286.4	283.7	283.0	276.4	267.5	263.1	260.1
160°	280.2	280.6	282.1	283.6	282.1	280.6	280.2	274.5	266.9	263.1	260.7
162.5°	277.5	277.9	279.3	280.7	279.3	277.9	277.5	272.7	266.3	263.1	261.4
165°	273.4	273.8	275.3	276.8	275.3	273.8	273.4	269.9	265.4	263.1	262.3
167.5°	271.6	271.8	272.4	273.1	272.4	271.8	271.6	269.4	266.4	264.8	264.2
170°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	269.4	266.4	264.8	264.8
172.5°	270.2	270.0	269.5	268.9	269.5	270.0	270.2	268.4	266.0	264.8	264.8
175°	268.2	268.2	268.2	268.2	268.2	268.2	268.2	267.1	265.6	264.8	265.2
177.5°	267.9	267.7	267.1	266.4	267.1	267.7	267.9	267.0	265.8	265.2	265.5
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1863.7	1872.6	1878.0	1885.1	1903.0
5°	1792.3	1826.2	1836.9	1863.7	1895.8
7.5°	1635.2	1738.7	1767.3	1831.6	1881.6
10°	1483.4	1587.0	1637.0	1788.7	1863.7
12.5°	1406.7	1467.4	1501.3	1713.7	1838.7
15°	1358.5	1401.3	1426.3	1613.8	1810.1
17.5°	1321.0	1351.3	1369.2	1515.6	1770.9
20°	1297.8	1312.1	1328.1	1444.2	1726.2
22.5°	1281.7	1272.8	1285.3	1394.2	1665.5
25°	1271.0	1237.1	1251.4	1354.9	1594.1
27.5°	1279.9	1204.9	1210.3	1319.2	1519.1
30°	1281.7	1165.7	1167.5	1281.7	1435.2
32.5°	1269.2	1124.6	1126.4	1235.3	1340.6
35°	1238.9	1076.4	1074.6	1181.7	1212.1
37.5°	1197.8	1024.7	1024.7	1122.8	1071.1
40°	1147.8	973.0	978.3	1046.2	946.2
42.5°	1087.1	917.6	924.8	944.4	853.3
45°	1021.2	864.1	869.4	798.0	781.9
47.5°	948.0	808.7	810.5	662.3	758.7
50°	860.5	751.6	744.4	567.7	756.9
52.5°	783.7	689.1	667.7	514.1	687.3
55°	708.7	623.0	576.6	473.1	637.3
57.5°	642.7	537.4	492.7	424.9	626.6
60°	582.0	453.5	419.5	373.1	574.8
62.5°	532.0	391.0	383.8	337.4	521.3
65°	478.4	348.1	346.3	307.1	442.7
67.5°	426.7	319.6	317.8	278.5	337.4
70°	371.3	289.2	285.6	248.1	249.9
72.5°	314.2	255.3	251.7	223.2	207.1
75°	257.1	216.0	214.2	194.6	167.8
77.5°	201.7	171.4	175.0	157.1	123.2
80°	144.6	125.0	128.5	112.5	92.8
82.5°	96.4	82.1	85.7	71.4	62.5
85°	53.6	46.4	48.2	37.5	28.6
87.5°	25.0	21.4	21.4	14.3	8.9
90°	7.9	5.0	4.6	3.2	1.8
92.5°	48.6	34.5	31.5	19.3	7.1
95°	119.3	67.2	61.7	39.4	17.1
97.5°	160.8	73.8	68.9	49.4	29.7
100°	175.8	79.4	74.9	57.1	39.4
102.5°	182.8	84.9	80.8	64.2	47.6
105°	188.0	93.2	89.7	75.6	61.5
107.5°	188.9	105.3	102.0	88.9	75.8
110°	187.5	112.1	109.2	97.3	85.5



TEST NUMBER: P933945

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	187.5	120.3	117.5	106.2	95.0
115°	189.2	132.6	130.1	119.6	109.3
117.5°	192.8	144.7	142.3	132.8	123.4
120°	195.7	151.7	149.4	140.5	131.6
122.5°	199.8	159.9	157.6	148.6	139.6
125°	205.3	170.4	168.3	160.2	152.0
127.5°	210.8	180.6	178.5	170.2	162.0
130°	214.9	187.4	185.1	176.3	167.4
132.5°	218.2	192.9	190.7	181.8	172.9
135°	221.7	199.4	197.4	189.2	181.1
137.5°	227.1	207.6	205.6	197.5	189.5
140°	230.4	213.2	211.3	203.9	196.5
142.5°	233.2	217.3	215.6	208.7	201.9
145°	236.7	223.5	222.0	216.1	210.1
147.5°	241.9	231.4	229.9	224.1	218.3
150°	244.7	235.5	234.1	229.0	223.7
152.5°	246.5	238.2	237.2	233.2	229.2
155°	250.4	244.0	243.3	240.4	237.4
157.5°	254.3	249.9	249.2	246.4	243.5
160°	256.1	252.6	252.1	249.8	247.6
162.5°	258.0	255.5	255.0	253.4	251.7
165°	260.8	259.7	259.3	257.8	256.3
167.5°	263.0	262.0	261.8	261.1	260.4
170°	264.8	264.7	264.5	263.8	263.1
172.5°	264.8	264.8	264.8	264.7	264.5
175°	265.9	266.4	266.4	266.4	266.4
177.5°	266.0	266.4	266.4	266.4	266.4
180°	266.4	266.4	266.4	266.4	266.4



TEST NUMBER: P933945

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-3500K

**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	14.31	15.44	15.03	16.18	17.06	17.15	18.27	17.87	19.02	19.90
	3H	14.81	15.82	15.54	16.57	17.49	18.52	19.53	19.25	20.28	21.19
	4H	15.01	15.97	15.76	16.73	17.65	18.97	19.93	19.73	20.69	21.62
	6H	15.14	16.02	15.91	16.79	17.74	19.27	20.16	20.04	20.93	21.87
	8H	15.15	15.99	15.93	16.78	17.72	19.36	20.20	20.13	20.99	21.93
	12H	15.13	15.93	15.91	16.72	17.69	19.41	20.21	20.19	20.99	21.96
4H	2H	15.38	16.33	16.13	17.09	18.02	17.59	18.54	18.35	19.30	20.23
	3H	16.43	17.22	17.20	18.02	18.96	19.12	19.92	19.89	20.71	21.66
	4H	16.72	17.44	17.50	18.23	19.21	19.66	20.38	20.45	21.18	22.15
	6H	16.86	17.48	17.66	18.30	19.28	20.04	20.67	20.85	21.49	22.47
	8H	16.87	17.45	17.67	18.27	19.26	20.16	20.74	20.96	21.56	22.55
	12H	16.85	17.37	17.67	18.21	19.21	20.23	20.76	21.06	21.59	22.59
8H	4H	17.19	17.78	18.00	18.59	19.58	19.81	20.39	20.61	21.21	22.20
	6H	17.46	17.95	18.30	18.81	19.80	20.26	20.74	21.09	21.60	22.59
	8H	17.51	17.94	18.36	18.80	19.80	20.41	20.84	21.26	21.70	22.71
	12H	17.51	17.88	18.35	18.73	19.80	20.52	20.90	21.37	21.75	22.82
12H	4H	17.21	17.74	18.04	18.58	19.57	19.78	20.31	20.61	21.15	22.15
	6H	17.53	17.96	18.37	18.81	19.82	20.26	20.69	21.10	21.54	22.55
	8H	17.61	17.99	18.45	18.83	19.90	20.43	20.81	21.28	21.66	22.72