

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: P934863

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

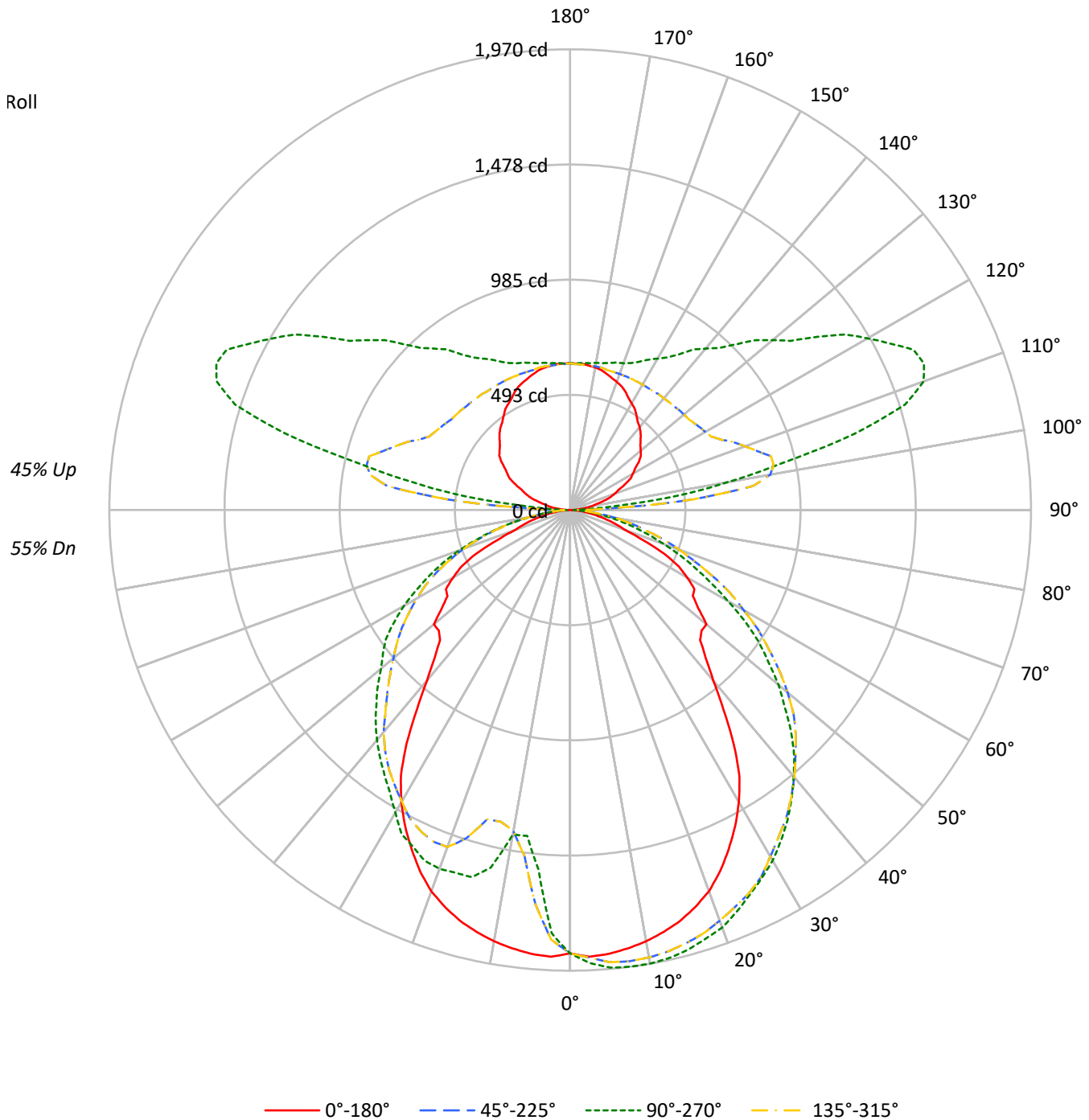
Test Method: LM-79-2019  
Report Number: P934863  
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8983.7 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: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.8  
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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11729	11729	11729	11729
5°	11812	11839	11812	9310
10°	11729	11662	11729	8338
15°	11597	11410	11597	9527
20°	11350	11111	11350	9547
25°	10849	10674	10849	9345
30°	10204	10311	10204	8901
35°	9092	9853	9092	8413
40°	7571	9313	7571	8044
45°	6761	8682	6761	7620
50°	7176	7928	7176	7194
55°	6746	7116	6746	6948
60°	6946	6043	6946	6363
65°	6288	4996	6288	5585
70°	4343	3982	4343	4681
75°	3794	2943	3794	3525
80°	3033	1947	3033	2119
85°	1711	1031	1711	876

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10368 cd/sqm



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CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.1	1.9
10°-20°	485.9	5.4
20°-30°	751.2	8.4
30°-40°	896.7	10.0
40°-50°	902.0	10.0
50°-60°	784.8	8.7
60°-70°	556.5	6.2
70°-80°	294.4	3.3
80°-90°	75.7	0.8
90°-100°	305.7	3.4
100°-110°	803.7	8.9
110°-120°	833.3	9.3
120°-130°	668.4	7.4
130°-140°	524.5	5.8
140°-150°	402.6	4.5
150°-160°	289.9	3.2
160°-170°	177.4	2.0
170°-180°	59.9	0.7
0°-30°	1408.2	15.7
0°-40°	2305.0	25.7
0°-60°	3991.8	44.4
0°-90°	4918.3	54.7
90°-120°	1942.7	21.6
90°-150°	3538.2	39.4
90°-180°	4065.0	45.2
0°-180°	8983.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1896	1896	1896	1896	1896	
5°	1905	1964	1905	1544	1905	181
15°	1819	1946	1819	1625	1819	512
25°	1602	1815	1602	1589	1602	735
35°	1218	1620	1218	1383	1218	754
45°	786	1335	786	1171	786	629
55°	640	985	640	962	640	588
65°	445	594	445	664	445	425
75°	169	282	169	337	169	177
85°	29	72	29	61	29	39
90°	4	16	4	16	4	5
95°	40	185	40	185	40	45
105°	145	1258	145	1258	145	154
115°	257	1620	257	1620	257	254
125°	358	1290	358	1290	358	318
135°	426	1001	426	1001	426	330
145°	495	812	495	812	495	310
155°	559	700	559	700	559	257
165°	603	652	603	652	603	170
175°	627	631	627	631	627	60
180°	627	627	627	627	627	



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CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1912.2	1912.2	1922.9	1926.5	1926.5	1921.1	1915.7	1921.1	1937.2	1942.7	1940.8
5°	1904.9	1919.3	1939.0	1942.7	1946.2	1944.4	1940.8	1944.4	1962.3	1965.9	1967.7
7.5°	1890.6	1917.5	1942.7	1948.0	1953.3	1948.0	1946.2	1949.8	1967.7	1971.4	1971.4
10°	1872.7	1910.3	1939.0	1942.7	1948.0	1942.7	1942.7	1949.8	1967.7	1971.4	1973.1
12.5°	1847.5	1899.6	1926.5	1930.1	1937.2	1935.4	1933.6	1940.8	1958.8	1962.3	1962.3
15°	1818.8	1879.8	1904.9	1908.5	1921.1	1917.5	1917.5	1924.6	1944.4	1949.8	1948.0
17.5°	1779.4	1854.7	1883.5	1888.8	1897.8	1896.0	1897.8	1904.9	1922.9	1926.5	1928.3
20°	1734.6	1820.6	1854.7	1860.1	1869.1	1869.1	1869.1	1878.0	1896.0	1903.2	1903.2
22.5°	1673.6	1784.8	1820.6	1824.3	1835.0	1835.0	1838.6	1851.1	1867.3	1869.1	1869.1
25°	1601.8	1745.3	1775.8	1786.5	1797.3	1802.7	1808.1	1815.3	1820.6	1818.8	1820.6
27.5°	1526.5	1695.1	1734.6	1741.7	1756.1	1761.4	1768.6	1770.4	1772.2	1777.6	1774.0
30°	1442.2	1625.1	1684.3	1691.5	1714.8	1718.4	1711.2	1714.8	1723.8	1727.4	1730.9
32.5°	1347.1	1521.1	1632.3	1648.5	1669.9	1659.2	1657.4	1662.8	1677.2	1677.2	1680.7
35°	1218.0	1440.4	1583.9	1598.2	1614.4	1601.8	1609.0	1610.7	1619.7	1625.1	1623.3
37.5°	1076.2	1370.4	1533.6	1544.4	1557.0	1540.9	1551.5	1557.0	1564.1	1560.6	1560.6
40°	950.7	1261.0	1474.4	1481.7	1492.4	1479.8	1490.6	1494.1	1497.8	1494.1	1492.4
42.5°	857.4	1140.8	1411.7	1420.7	1413.5	1422.5	1426.0	1433.2	1427.8	1420.7	1420.7
45°	785.7	1108.6	1343.5	1354.3	1343.5	1357.8	1363.3	1363.3	1347.1	1343.5	1341.7
47.5°	762.3	1043.9	1275.4	1275.4	1269.9	1287.9	1296.8	1284.3	1268.1	1262.8	1262.8
50°	760.5	972.2	1182.0	1174.9	1200.0	1221.5	1212.6	1200.0	1187.5	1167.7	1167.7
52.5°	690.5	884.3	1061.8	1088.8	1128.3	1140.8	1126.5	1113.9	1092.3	1083.4	1076.2
55°	640.4	792.8	952.5	1006.3	1047.5	1063.7	1036.8	1024.2	992.0	986.5	983.0
57.5°	629.6	660.1	852.0	920.2	970.4	968.6	952.5	929.1	902.3	896.8	895.1
60°	577.6	477.1	744.4	825.1	877.1	871.8	857.4	835.9	810.8	807.2	803.6
62.5°	523.7	346.2	622.4	713.9	787.5	785.7	773.1	740.8	722.9	713.9	706.7
65°	444.9	290.6	443.1	593.7	699.6	703.1	676.2	652.9	633.2	622.4	620.7
67.5°	339.0	236.8	299.5	495.0	615.2	611.7	577.6	566.8	541.7	536.3	525.5
70°	251.1	157.9	208.1	401.8	532.8	523.7	496.8	484.4	461.0	448.4	441.3
72.5°	208.1	127.4	152.4	312.1	448.4	437.6	414.4	400.0	380.3	369.5	362.3
75°	168.6	134.5	116.6	231.4	364.1	357.0	335.5	321.1	304.9	290.6	292.4
77.5°	123.7	125.5	93.2	170.4	288.7	278.1	265.5	247.6	240.3	226.0	226.0
80°	93.2	98.7	70.0	116.6	208.1	208.1	197.3	184.7	172.2	165.0	165.0
82.5°	62.8	62.8	52.0	73.5	141.7	136.3	129.2	125.5	118.4	114.8	114.8
85°	28.7	35.8	32.3	44.8	77.1	80.7	80.7	77.1	75.3	71.8	73.5
87.5°	9.0	16.1	19.7	25.1	39.5	41.3	43.1	43.1	43.1	44.8	44.8
90°	4.2	7.5	11.0	11.8	18.5	27.4	32.0	28.4	21.4	16.0	16.0
92.5°	16.8	45.4	74.0	81.2	114.1	158.1	180.1	157.9	113.3	79.9	76.8
95°	40.4	92.8	145.1	158.2	281.0	444.7	526.5	469.9	356.5	271.5	261.9
97.5°	69.9	116.0	162.2	173.8	378.5	651.4	787.9	752.1	680.5	626.7	608.4
100°	92.6	134.5	176.4	186.9	414.0	716.9	868.3	870.9	876.2	880.1	858.3
102.5°	112.0	151.1	190.2	200.0	430.3	737.4	891.0	936.7	1028.0	1096.4	1077.7
105°	144.8	178.0	211.1	219.3	442.4	739.8	888.5	990.8	1195.4	1349.0	1338.9
107.5°	178.5	209.4	240.2	247.9	444.6	706.8	838.0	980.7	1266.2	1480.3	1482.7
110°	201.2	229.1	256.9	263.9	441.2	677.7	795.9	955.5	1274.6	1514.0	1524.5



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CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	223.5	250.0	276.6	283.2	441.4	652.2	757.6	920.9	1247.5	1492.4	1508.5
115°	257.2	281.7	306.1	312.3	445.4	622.9	711.7	869.0	1183.7	1419.7	1441.9
117.5°	290.4	312.6	334.9	340.5	453.8	604.6	680.1	822.2	1106.1	1319.1	1343.8
120°	309.7	330.7	351.7	356.9	460.5	598.5	667.6	797.3	1056.7	1251.3	1275.4
122.5°	328.8	349.8	371.0	376.3	470.1	595.3	657.9	774.6	1008.3	1183.5	1207.2
125°	357.7	377.0	396.3	401.1	483.2	592.6	647.4	746.6	945.1	1093.9	1115.7
127.5°	381.3	400.8	420.2	425.1	496.2	591.1	638.5	723.7	894.1	1021.9	1040.4
130°	393.9	414.9	435.8	441.1	505.8	592.1	635.2	711.0	862.7	976.5	993.5
132.5°	407.0	428.0	448.9	454.1	513.5	592.6	632.2	700.1	835.9	937.7	953.0
135°	426.3	445.4	464.5	469.3	521.9	592.1	627.1	683.9	797.7	883.0	896.1
137.5°	446.2	465.0	483.9	488.6	534.5	595.7	626.3	674.3	770.5	842.6	853.4
140°	462.5	479.9	497.4	501.7	542.3	596.3	623.3	664.8	747.9	810.2	820.3
142.5°	475.2	491.3	507.4	511.4	548.7	598.4	623.3	659.8	732.7	787.5	796.2
145°	494.6	508.6	522.5	526.1	557.1	598.5	619.1	649.0	708.7	753.4	759.9
147.5°	513.9	527.5	541.2	544.6	569.4	602.6	619.1	642.6	689.6	724.8	730.2
150°	526.5	538.8	551.2	554.3	576.0	604.7	619.1	639.0	678.6	708.4	712.8
152.5°	539.6	549.0	558.3	560.7	580.1	606.1	619.1	636.1	669.9	695.3	698.7
155°	558.9	565.8	572.8	574.5	589.4	609.2	619.1	632.6	659.6	679.8	681.9
157.5°	573.2	580.0	586.7	588.4	598.7	612.3	619.1	629.6	650.5	666.3	667.8
160°	582.9	588.2	593.4	594.7	602.8	613.7	619.1	628.1	646.0	659.5	660.4
162.5°	592.6	596.6	600.5	601.5	607.4	615.2	619.1	626.7	641.8	653.3	654.1
165°	603.1	606.7	610.3	611.2	613.8	617.3	619.1	624.6	635.4	643.6	644.5
167.5°	612.8	614.5	616.1	616.6	618.9	621.8	623.3	626.8	634.0	639.3	639.7
170°	619.1	620.8	622.5	622.9	623.0	623.2	623.3	626.8	634.0	639.3	639.3
172.5°	622.5	622.8	623.2	623.3	623.3	623.3	623.3	626.1	631.7	636.0	635.6
175°	627.1	627.1	627.1	627.1	625.8	624.1	623.3	625.1	628.6	631.3	631.3
177.5°	627.1	627.1	627.1	627.1	626.1	624.8	624.2	625.6	628.5	630.5	630.2
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1944.4	1939.0	1944.4	1940.8	1942.7	1937.2	1921.1	1915.7	1921.1	1926.5	1926.5
5°	1967.7	1964.1	1967.7	1967.7	1965.9	1962.3	1944.4	1940.8	1944.4	1946.2	1942.7
7.5°	1974.9	1969.5	1974.9	1971.4	1971.4	1967.7	1949.8	1946.2	1948.0	1953.3	1948.0
10°	1974.9	1969.5	1974.9	1973.1	1971.4	1967.7	1949.8	1942.7	1942.7	1948.0	1942.7
12.5°	1965.9	1962.3	1965.9	1962.3	1962.3	1958.8	1940.8	1933.6	1935.4	1937.2	1930.1
15°	1951.6	1946.2	1951.6	1948.0	1949.8	1944.4	1924.6	1917.5	1917.5	1921.1	1908.5
17.5°	1930.1	1922.9	1930.1	1928.3	1926.5	1922.9	1904.9	1897.8	1896.0	1897.8	1888.8
20°	1904.9	1899.6	1904.9	1903.2	1903.2	1896.0	1878.0	1869.1	1869.1	1869.1	1860.1
22.5°	1865.4	1860.1	1865.4	1869.1	1869.1	1867.3	1851.1	1838.6	1835.0	1835.0	1824.3
25°	1820.6	1815.3	1820.6	1820.6	1818.8	1820.6	1815.3	1808.1	1802.7	1797.3	1786.5
27.5°	1777.6	1774.0	1777.6	1774.0	1777.6	1772.2	1770.4	1768.6	1761.4	1756.1	1741.7
30°	1734.6	1730.9	1734.6	1730.9	1727.4	1723.8	1714.8	1711.2	1718.4	1714.8	1691.5
32.5°	1680.7	1677.2	1680.7	1680.7	1677.2	1677.2	1662.8	1657.4	1659.2	1669.9	1648.5
35°	1625.1	1619.7	1625.1	1623.3	1625.1	1619.7	1610.7	1609.0	1601.8	1614.4	1598.2
37.5°	1560.6	1555.2	1560.6	1560.6	1560.6	1564.1	1557.0	1551.5	1540.9	1557.0	1544.4
40°	1494.1	1487.0	1494.1	1492.4	1494.1	1497.8	1494.1	1490.6	1479.8	1492.4	1481.7
42.5°	1418.8	1417.0	1418.8	1420.7	1420.7	1427.8	1433.2	1426.0	1422.5	1413.5	1420.7
45°	1338.1	1334.6	1338.1	1341.7	1343.5	1347.1	1363.3	1363.3	1357.8	1343.5	1354.3
47.5°	1252.0	1243.1	1252.0	1262.8	1262.8	1268.1	1284.3	1296.8	1287.9	1269.9	1275.4
50°	1160.5	1162.3	1160.5	1167.7	1167.7	1187.5	1200.0	1212.6	1221.5	1200.0	1174.9
52.5°	1070.9	1069.1	1070.9	1076.2	1083.4	1092.3	1113.9	1126.5	1140.8	1128.3	1088.8
55°	981.2	984.7	981.2	983.0	986.5	992.0	1024.2	1036.8	1063.7	1047.5	1006.3
57.5°	891.5	886.1	891.5	895.1	896.8	902.3	929.1	952.5	968.6	970.4	920.2
60°	787.5	780.2	787.5	803.6	807.2	810.8	835.9	857.4	871.8	877.1	825.1
62.5°	696.0	683.4	696.0	706.7	713.9	722.9	740.8	773.1	785.7	787.5	713.9
65°	599.1	593.7	599.1	620.7	622.4	633.2	652.9	676.2	703.1	699.6	593.7
67.5°	511.2	511.2	511.2	525.5	536.3	541.7	566.8	577.6	611.7	615.2	495.0
70°	430.5	428.7	430.5	441.3	448.4	461.0	484.4	496.8	523.7	532.8	401.8
72.5°	353.4	351.6	353.4	362.3	369.5	380.3	400.0	414.4	437.6	448.4	312.1
75°	285.2	281.6	285.2	292.4	290.6	304.9	321.1	335.5	357.0	364.1	231.4
77.5°	218.9	218.9	218.9	226.0	226.0	240.3	247.6	265.5	278.1	288.7	170.4
80°	163.2	161.5	163.2	165.0	165.0	172.2	184.7	197.3	208.1	208.1	116.6
82.5°	114.8	111.2	114.8	114.8	114.8	118.4	125.5	129.2	136.3	141.7	73.5
85°	71.8	71.8	71.8	73.5	71.8	75.3	77.1	80.7	80.7	77.1	44.8
87.5°	46.6	44.8	46.6	44.8	44.8	43.1	43.1	43.1	41.3	39.5	25.1
90°	16.0	16.0	16.0	16.0	16.0	21.4	28.4	32.0	27.4	18.5	11.8
92.5°	64.0	51.3	64.0	76.8	79.9	113.3	157.9	180.1	158.1	114.1	81.2
95°	223.3	184.7	223.3	261.9	271.5	356.5	469.9	526.5	444.7	281.0	158.2
97.5°	535.0	461.7	535.0	608.4	626.7	680.5	752.1	787.9	651.4	378.5	173.8
100°	770.8	683.5	770.8	858.3	880.1	876.2	870.9	868.3	716.9	414.0	186.9
102.5°	1002.9	928.1	1002.9	1077.7	1096.4	1028.0	936.7	891.0	737.4	430.3	200.0
105°	1298.6	1258.4	1298.6	1338.9	1349.0	1195.4	990.8	888.5	739.8	442.4	219.3
107.5°	1492.4	1502.1	1492.4	1482.7	1480.3	1266.2	980.7	838.0	706.8	444.6	247.9
110°	1566.3	1608.2	1566.3	1524.5	1514.0	1274.6	955.5	795.9	677.7	441.2	263.9





TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1572.9	1637.3	1572.9	1508.5	1492.4	1247.5	920.9	757.6	652.2	441.4	283.2
115°	1531.2	1620.4	1531.2	1441.9	1419.7	1183.7	869.0	711.7	622.9	445.4	312.3
117.5°	1442.7	1541.7	1442.7	1343.8	1319.1	1106.1	822.2	680.1	604.6	453.8	340.5
120°	1371.5	1467.6	1371.5	1275.4	1251.3	1056.7	797.3	667.6	598.5	460.5	356.9
122.5°	1302.1	1396.9	1302.1	1207.2	1183.5	1008.3	774.6	657.9	595.3	470.1	376.3
125°	1203.1	1290.5	1203.1	1115.7	1093.9	945.1	746.6	647.4	592.6	483.2	401.1
127.5°	1114.1	1187.8	1114.1	1040.4	1021.9	894.1	723.7	638.5	591.1	496.2	425.1
130°	1061.6	1129.6	1061.6	993.5	976.5	862.7	711.0	635.2	592.1	505.8	441.1
132.5°	1014.0	1075.0	1014.0	953.0	937.7	835.9	700.1	632.2	592.6	513.5	454.1
135°	948.7	1001.3	948.7	896.1	883.0	797.7	683.9	627.1	592.1	521.9	469.3
137.5°	896.4	939.5	896.4	853.4	842.6	770.5	674.3	626.3	595.7	534.5	488.6
140°	860.5	900.7	860.5	820.3	810.2	747.9	664.8	623.3	596.3	542.3	501.7
142.5°	830.8	865.3	830.8	796.2	787.5	732.7	659.8	623.3	598.4	548.7	511.4
145°	786.1	812.3	786.1	759.9	753.4	708.7	649.0	619.1	598.5	557.1	526.1
147.5°	751.8	773.6	751.8	730.2	724.8	689.6	642.6	619.1	602.6	569.4	544.6
150°	730.4	747.9	730.4	712.8	708.4	678.6	639.0	619.1	604.7	576.0	554.3
152.5°	711.9	725.2	711.9	698.7	695.3	669.9	636.1	619.1	606.1	580.1	560.7
155°	690.7	699.5	690.7	681.9	679.8	659.6	632.6	619.1	609.2	589.4	574.5
157.5°	674.0	680.1	674.0	667.8	666.3	650.5	629.6	619.1	612.3	598.7	588.4
160°	663.9	667.6	663.9	660.4	659.5	646.0	628.1	619.1	613.7	602.8	594.7
162.5°	657.4	660.8	657.4	654.1	653.3	641.8	626.7	619.1	615.2	607.4	601.5
165°	648.0	651.5	648.0	644.5	643.6	635.4	624.6	619.1	617.3	613.8	611.2
167.5°	641.2	642.7	641.2	639.7	639.3	634.0	626.8	623.3	621.8	618.9	616.6
170°	639.3	639.3	639.3	639.3	639.3	634.0	626.8	623.3	623.2	623.0	622.9
172.5°	634.3	633.0	634.3	635.6	636.0	631.7	626.1	623.3	623.3	623.3	623.3
175°	631.3	631.3	631.3	631.3	631.3	628.6	625.1	623.3	624.1	625.8	627.1
177.5°	628.6	627.1	628.6	630.2	630.5	628.5	625.6	624.2	624.8	626.1	627.1
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1922.9	1912.2	1912.2	1894.1	1887.0	1881.6	1872.7	1845.7	1838.6	1831.4	1842.2
5°	1939.0	1919.3	1904.9	1872.7	1845.7	1835.0	1800.9	1736.4	1693.3	1661.0	1643.0
7.5°	1942.7	1917.5	1890.6	1840.4	1775.8	1747.1	1643.0	1524.7	1492.4	1463.6	1445.7
10°	1939.0	1910.3	1872.7	1797.3	1644.9	1594.6	1490.6	1413.5	1393.8	1388.3	1393.8
12.5°	1926.5	1899.6	1847.5	1722.0	1508.5	1474.4	1413.5	1368.6	1365.1	1374.0	1422.5
15°	1904.9	1879.8	1818.8	1621.5	1433.2	1408.1	1365.1	1348.9	1368.6	1431.4	1576.7
17.5°	1883.5	1854.7	1779.4	1522.8	1375.8	1357.8	1327.3	1359.6	1470.9	1555.2	1603.6
20°	1854.7	1820.6	1734.6	1451.2	1334.6	1318.4	1304.1	1449.3	1533.6	1564.1	1591.0
22.5°	1820.6	1784.8	1673.6	1400.9	1291.5	1278.9	1287.9	1499.6	1533.6	1555.2	1578.5
25°	1775.8	1745.3	1601.8	1361.5	1257.4	1243.1	1277.2	1494.1	1513.9	1519.3	1565.9
27.5°	1734.6	1695.1	1526.5	1325.6	1216.2	1210.7	1286.1	1470.9	1485.2	1490.6	1540.9
30°	1684.3	1625.1	1442.2	1287.9	1173.1	1171.3	1287.9	1442.2	1438.6	1453.0	1503.1
32.5°	1632.3	1521.1	1347.1	1241.2	1131.8	1130.1	1275.4	1399.1	1395.5	1415.2	1453.0
35°	1583.9	1440.4	1218.0	1187.5	1079.9	1081.6	1244.9	1348.9	1350.7	1368.6	1392.0
37.5°	1533.6	1370.4	1076.2	1128.3	1029.6	1029.6	1203.6	1302.3	1298.6	1304.1	1336.3
40°	1474.4	1261.0	950.7	1051.2	983.0	977.6	1153.4	1252.0	1239.4	1237.7	1282.5
42.5°	1411.7	1140.8	857.4	948.9	929.1	922.0	1092.3	1191.0	1167.7	1173.1	1230.5
45°	1343.5	1108.6	785.7	801.8	873.6	868.1	1026.0	1121.0	1104.9	1119.3	1178.5
47.5°	1275.4	1043.9	762.3	665.5	814.4	812.6	952.5	1052.9	1043.9	1058.3	1121.0
50°	1182.0	972.2	760.5	570.4	748.0	755.2	864.6	986.5	986.5	999.1	1065.5
52.5°	1061.8	884.3	690.5	516.6	670.8	692.4	787.5	929.1	932.8	945.3	1004.5
55°	952.5	792.8	640.4	475.3	579.4	626.0	712.1	870.0	877.1	889.7	943.5
57.5°	852.0	660.1	629.6	426.9	495.0	539.9	645.7	812.6	816.2	827.0	878.9
60°	744.4	477.1	577.6	374.9	421.5	455.6	584.7	744.4	757.0	764.1	808.9
62.5°	622.4	346.2	523.7	339.0	385.7	392.8	534.5	679.9	696.0	701.3	728.3
65°	443.1	290.6	444.9	308.5	347.9	349.8	480.7	613.4	627.8	636.8	656.5
67.5°	299.5	236.8	339.0	279.8	319.3	321.1	428.7	536.3	556.0	563.2	575.8
70°	208.1	157.9	251.1	249.4	287.0	290.6	373.1	466.3	484.4	489.7	496.8
72.5°	152.4	127.4	208.1	224.2	252.9	256.5	315.7	387.4	405.4	410.8	414.4
75°	116.6	134.5	168.6	195.5	215.2	217.1	258.3	315.7	328.2	331.8	333.6
77.5°	93.2	125.5	123.7	157.9	175.8	172.2	202.7	243.9	254.7	254.7	254.7
80°	70.0	98.7	93.2	113.0	129.2	125.5	145.3	174.0	177.6	181.1	179.4
82.5°	52.0	62.8	62.8	71.8	86.1	82.6	96.9	113.0	113.0	113.0	116.6
85°	32.3	35.8	28.7	37.7	48.4	46.6	53.9	61.0	62.8	62.8	59.2
87.5°	19.7	16.1	9.0	14.4	21.5	21.5	25.1	26.9	25.1	25.1	25.1
90°	11.0	7.5	4.2	7.5	11.0	11.8	18.5	27.4	32.0	28.4	21.4
92.5°	74.0	45.4	16.8	45.4	74.0	81.2	114.1	158.1	180.1	157.9	113.3
95°	145.1	92.8	40.4	92.8	145.1	158.2	281.0	444.7	526.5	469.9	356.5
97.5°	162.2	116.0	69.9	116.0	162.2	173.8	378.5	651.4	787.9	752.1	680.5
100°	176.4	134.5	92.6	134.5	176.4	186.9	414.0	716.9	868.3	870.9	876.2
102.5°	190.2	151.1	112.0	151.1	190.2	200.0	430.3	737.4	891.0	936.7	1028.0
105°	211.1	178.0	144.8	178.0	211.1	219.3	442.4	739.8	888.5	990.8	1195.4
107.5°	240.2	209.4	178.5	209.4	240.2	247.9	444.6	706.8	838.0	980.7	1266.2
110°	256.9	229.1	201.2	229.1	256.9	263.9	441.2	677.7	795.9	955.5	1274.6



TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	276.6	250.0	223.5	250.0	276.6	283.2	441.4	652.2	757.6	920.9	1247.5
115°	306.1	281.7	257.2	281.7	306.1	312.3	445.4	622.9	711.7	869.0	1183.7
117.5°	334.9	312.6	290.4	312.6	334.9	340.5	453.8	604.6	680.1	822.2	1106.1
120°	351.7	330.7	309.7	330.7	351.7	356.9	460.5	598.5	667.6	797.3	1056.7
122.5°	371.0	349.8	328.8	349.8	371.0	376.3	470.1	595.3	657.9	774.6	1008.3
125°	396.3	377.0	357.7	377.0	396.3	401.1	483.2	592.6	647.4	746.6	945.1
127.5°	420.2	400.8	381.3	400.8	420.2	425.1	496.2	591.1	638.5	723.7	894.1
130°	435.8	414.9	393.9	414.9	435.8	441.1	505.8	592.1	635.2	711.0	862.7
132.5°	448.9	428.0	407.0	428.0	448.9	454.1	513.5	592.6	632.2	700.1	835.9
135°	464.5	445.4	426.3	445.4	464.5	469.3	521.9	592.1	627.1	683.9	797.7
137.5°	483.9	465.0	446.2	465.0	483.9	488.6	534.5	595.7	626.3	674.3	770.5
140°	497.4	479.9	462.5	479.9	497.4	501.7	542.3	596.3	623.3	664.8	747.9
142.5°	507.4	491.3	475.2	491.3	507.4	511.4	548.7	598.4	623.3	659.8	732.7
145°	522.5	508.6	494.6	508.6	522.5	526.1	557.1	598.5	619.1	649.0	708.7
147.5°	541.2	527.5	513.9	527.5	541.2	544.6	569.4	602.6	619.1	642.6	689.6
150°	551.2	538.8	526.5	538.8	551.2	554.3	576.0	604.7	619.1	639.0	678.6
152.5°	558.3	549.0	539.6	549.0	558.3	560.7	580.1	606.1	619.1	636.1	669.9
155°	572.8	565.8	558.9	565.8	572.8	574.5	589.4	609.2	619.1	632.6	659.6
157.5°	586.7	580.0	573.2	580.0	586.7	588.4	598.7	612.3	619.1	629.6	650.5
160°	593.4	588.2	582.9	588.2	593.4	594.7	602.8	613.7	619.1	628.1	646.0
162.5°	600.5	596.6	592.6	596.6	600.5	601.5	607.4	615.2	619.1	626.7	641.8
165°	610.3	606.7	603.1	606.7	610.3	611.2	613.8	617.3	619.1	624.6	635.4
167.5°	616.1	614.5	612.8	614.5	616.1	616.6	618.9	621.8	623.3	626.8	634.0
170°	622.5	620.8	619.1	620.8	622.5	622.9	623.0	623.2	623.3	626.8	634.0
172.5°	623.2	622.8	622.5	622.8	623.2	623.3	623.3	623.3	623.3	626.1	631.7
175°	627.1	627.1	627.1	627.1	627.1	627.1	625.8	624.1	623.3	625.1	628.6
177.5°	627.1	627.1	627.1	627.1	627.1	627.1	626.1	624.8	624.2	625.6	628.5
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1829.6	1824.3	1831.4	1811.7	1831.4	1824.3	1829.6	1842.2	1831.4	1838.6	1845.7
5°	1605.4	1596.4	1567.7	1544.4	1567.7	1596.4	1605.4	1643.0	1661.0	1693.3	1736.4
7.5°	1435.0	1427.8	1420.7	1406.3	1420.7	1427.8	1435.0	1445.7	1463.6	1492.4	1524.7
10°	1397.3	1399.1	1409.9	1408.1	1409.9	1399.1	1397.3	1393.8	1388.3	1393.8	1413.5
12.5°	1494.1	1510.4	1569.5	1565.9	1569.5	1510.4	1494.1	1422.5	1374.0	1365.1	1368.6
15°	1605.4	1610.7	1623.3	1625.1	1623.3	1610.7	1605.4	1576.7	1431.4	1368.6	1348.9
17.5°	1616.2	1618.0	1626.9	1626.9	1626.9	1618.0	1616.2	1603.6	1555.2	1470.9	1359.6
20°	1607.2	1610.7	1628.7	1632.3	1628.7	1610.7	1607.2	1591.0	1564.1	1533.6	1449.3
22.5°	1603.6	1610.7	1625.1	1623.3	1625.1	1610.7	1603.6	1578.5	1555.2	1533.6	1499.6
25°	1585.7	1585.7	1587.5	1589.3	1587.5	1585.7	1585.7	1565.9	1519.3	1513.9	1494.1
27.5°	1548.0	1551.5	1562.3	1560.6	1562.3	1551.5	1548.0	1540.9	1490.6	1485.2	1470.9
30°	1513.9	1510.4	1501.4	1494.1	1501.4	1510.4	1513.9	1503.1	1453.0	1438.6	1442.2
32.5°	1456.5	1447.5	1438.6	1433.2	1438.6	1447.5	1456.5	1453.0	1415.2	1395.5	1399.1
35°	1388.3	1390.1	1388.3	1383.0	1388.3	1390.1	1388.3	1392.0	1368.6	1350.7	1348.9
37.5°	1339.9	1343.5	1341.7	1334.6	1341.7	1343.5	1339.9	1336.3	1304.1	1298.6	1302.3
40°	1289.7	1291.5	1289.7	1284.3	1289.7	1291.5	1289.7	1282.5	1237.7	1239.4	1252.0
42.5°	1241.2	1239.4	1234.1	1230.5	1234.1	1239.4	1241.2	1230.5	1173.1	1167.7	1191.0
45°	1185.7	1187.5	1176.7	1171.3	1176.7	1187.5	1185.7	1178.5	1119.3	1104.9	1121.0
47.5°	1130.1	1130.1	1121.0	1115.7	1121.0	1130.1	1130.1	1121.0	1058.3	1043.9	1052.9
50°	1070.9	1069.1	1056.5	1054.7	1056.5	1069.1	1070.9	1065.5	999.1	986.5	986.5
52.5°	1002.7	1002.7	1004.5	1008.1	1004.5	1002.7	1002.7	1004.5	945.3	932.8	929.1
55°	943.5	945.3	957.8	961.5	957.8	945.3	943.5	943.5	889.7	877.1	870.0
57.5°	882.5	882.5	891.5	891.5	891.5	882.5	882.5	878.9	827.0	816.2	812.6
60°	812.6	816.2	823.3	821.5	823.3	816.2	812.6	808.9	764.1	757.0	744.4
62.5°	739.0	742.6	744.4	740.8	744.4	742.6	739.0	728.3	701.3	696.0	679.9
65°	661.9	665.5	667.3	663.7	667.3	665.5	661.9	656.5	636.8	627.8	613.4
67.5°	582.9	581.2	579.4	586.5	579.4	581.2	582.9	575.8	563.2	556.0	536.3
70°	502.3	502.3	500.5	504.0	500.5	502.3	502.3	496.8	489.7	484.4	466.3
72.5°	416.1	414.4	421.5	416.1	421.5	414.4	416.1	414.4	410.8	405.4	387.4
75°	331.8	335.5	331.8	337.3	331.8	335.5	331.8	333.6	331.8	328.2	315.7
77.5°	252.9	256.5	252.9	252.9	252.9	256.5	252.9	254.7	254.7	254.7	243.9
80°	179.4	177.6	177.6	175.8	177.6	177.6	179.4	179.4	181.1	177.6	174.0
82.5°	114.8	113.0	113.0	116.6	113.0	113.0	114.8	116.6	113.0	113.0	113.0
85°	62.8	64.5	61.0	61.0	61.0	64.5	62.8	59.2	62.8	62.8	61.0
87.5°	23.4	21.5	21.5	21.5	21.5	21.5	23.4	25.1	25.1	25.1	26.9
90°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	21.4	28.4	32.0	27.4
92.5°	79.9	76.8	64.0	51.3	64.0	76.8	79.9	113.3	157.9	180.1	158.1
95°	271.5	261.9	223.3	184.7	223.3	261.9	271.5	356.5	469.9	526.5	444.7
97.5°	626.7	608.4	535.0	461.7	535.0	608.4	626.7	680.5	752.1	787.9	651.4
100°	880.1	858.3	770.8	683.5	770.8	858.3	880.1	876.2	870.9	868.3	716.9
102.5°	1096.4	1077.7	1002.9	928.1	1002.9	1077.7	1096.4	1028.0	936.7	891.0	737.4
105°	1349.0	1338.9	1298.6	1258.4	1298.6	1338.9	1349.0	1195.4	990.8	888.5	739.8
107.5°	1480.3	1482.7	1492.4	1502.1	1492.4	1482.7	1480.3	1266.2	980.7	838.0	706.8
110°	1514.0	1524.5	1566.3	1608.2	1566.3	1524.5	1514.0	1274.6	955.5	795.9	677.7



TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1492.4	1508.5	1572.9	1637.3	1572.9	1508.5	1492.4	1247.5	920.9	757.6	652.2
115°	1419.7	1441.9	1531.2	1620.4	1531.2	1441.9	1419.7	1183.7	869.0	711.7	622.9
117.5°	1319.1	1343.8	1442.7	1541.7	1442.7	1343.8	1319.1	1106.1	822.2	680.1	604.6
120°	1251.3	1275.4	1371.5	1467.6	1371.5	1275.4	1251.3	1056.7	797.3	667.6	598.5
122.5°	1183.5	1207.2	1302.1	1396.9	1302.1	1207.2	1183.5	1008.3	774.6	657.9	595.3
125°	1093.9	1115.7	1203.1	1290.5	1203.1	1115.7	1093.9	945.1	746.6	647.4	592.6
127.5°	1021.9	1040.4	1114.1	1187.8	1114.1	1040.4	1021.9	894.1	723.7	638.5	591.1
130°	976.5	993.5	1061.6	1129.6	1061.6	993.5	976.5	862.7	711.0	635.2	592.1
132.5°	937.7	953.0	1014.0	1075.0	1014.0	953.0	937.7	835.9	700.1	632.2	592.6
135°	883.0	896.1	948.7	1001.3	948.7	896.1	883.0	797.7	683.9	627.1	592.1
137.5°	842.6	853.4	896.4	939.5	896.4	853.4	842.6	770.5	674.3	626.3	595.7
140°	810.2	820.3	860.5	900.7	860.5	820.3	810.2	747.9	664.8	623.3	596.3
142.5°	787.5	796.2	830.8	865.3	830.8	796.2	787.5	732.7	659.8	623.3	598.4
145°	753.4	759.9	786.1	812.3	786.1	759.9	753.4	708.7	649.0	619.1	598.5
147.5°	724.8	730.2	751.8	773.6	751.8	730.2	724.8	689.6	642.6	619.1	602.6
150°	708.4	712.8	730.4	747.9	730.4	712.8	708.4	678.6	639.0	619.1	604.7
152.5°	695.3	698.7	711.9	725.2	711.9	698.7	695.3	669.9	636.1	619.1	606.1
155°	679.8	681.9	690.7	699.5	690.7	681.9	679.8	659.6	632.6	619.1	609.2
157.5°	666.3	667.8	674.0	680.1	674.0	667.8	666.3	650.5	629.6	619.1	612.3
160°	659.5	660.4	663.9	667.6	663.9	660.4	659.5	646.0	628.1	619.1	613.7
162.5°	653.3	654.1	657.4	660.8	657.4	654.1	653.3	641.8	626.7	619.1	615.2
165°	643.6	644.5	648.0	651.5	648.0	644.5	643.6	635.4	624.6	619.1	617.3
167.5°	639.3	639.7	641.2	642.7	641.2	639.7	639.3	634.0	626.8	623.3	621.8
170°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	634.0	626.8	623.3	623.2
172.5°	636.0	635.6	634.3	633.0	634.3	635.6	636.0	631.7	626.1	623.3	623.3
175°	631.3	631.3	631.3	631.3	631.3	631.3	631.3	628.6	625.1	623.3	624.1
177.5°	630.5	630.2	628.6	627.1	628.6	630.2	630.5	628.5	625.6	624.2	624.8
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1872.7	1881.6	1887.0	1894.1	1912.2
5°	1800.9	1835.0	1845.7	1872.7	1904.9
7.5°	1643.0	1747.1	1775.8	1840.4	1890.6
10°	1490.6	1594.6	1644.9	1797.3	1872.7
12.5°	1413.5	1474.4	1508.5	1722.0	1847.5
15°	1365.1	1408.1	1433.2	1621.5	1818.8
17.5°	1327.3	1357.8	1375.8	1522.8	1779.4
20°	1304.1	1318.4	1334.6	1451.2	1734.6
22.5°	1287.9	1278.9	1291.5	1400.9	1673.6
25°	1277.2	1243.1	1257.4	1361.5	1601.8
27.5°	1286.1	1210.7	1216.2	1325.6	1526.5
30°	1287.9	1171.3	1173.1	1287.9	1442.2
32.5°	1275.4	1130.1	1131.8	1241.2	1347.1
35°	1244.9	1081.6	1079.9	1187.5	1218.0
37.5°	1203.6	1029.6	1029.6	1128.3	1076.2
40°	1153.4	977.6	983.0	1051.2	950.7
42.5°	1092.3	922.0	929.1	948.9	857.4
45°	1026.0	868.1	873.6	801.8	785.7
47.5°	952.5	812.6	814.4	665.5	762.3
50°	864.6	755.2	748.0	570.4	760.5
52.5°	787.5	692.4	670.8	516.6	690.5
55°	712.1	626.0	579.4	475.3	640.4
57.5°	645.7	539.9	495.0	426.9	629.6
60°	584.7	455.6	421.5	374.9	577.6
62.5°	534.5	392.8	385.7	339.0	523.7
65°	480.7	349.8	347.9	308.5	444.9
67.5°	428.7	321.1	319.3	279.8	339.0
70°	373.1	290.6	287.0	249.4	251.1
72.5°	315.7	256.5	252.9	224.2	208.1
75°	258.3	217.1	215.2	195.5	168.6
77.5°	202.7	172.2	175.8	157.9	123.7
80°	145.3	125.5	129.2	113.0	93.2
82.5°	96.9	82.6	86.1	71.8	62.8
85°	53.9	46.6	48.4	37.7	28.7
87.5°	25.1	21.5	21.5	14.4	9.0
90°	18.5	11.8	11.0	7.5	4.2
92.5°	114.1	81.2	74.0	45.4	16.8
95°	281.0	158.2	145.1	92.8	40.4
97.5°	378.5	173.8	162.2	116.0	69.9
100°	414.0	186.9	176.4	134.5	92.6
102.5°	430.3	200.0	190.2	151.1	112.0
105°	442.4	219.3	211.1	178.0	144.8
107.5°	444.6	247.9	240.2	209.4	178.5
110°	441.2	263.9	256.9	229.1	201.2



TEST NUMBER: P934863

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	441.4	283.2	276.6	250.0	223.5
115°	445.4	312.3	306.1	281.7	257.2
117.5°	453.8	340.5	334.9	312.6	290.4
120°	460.5	356.9	351.7	330.7	309.7
122.5°	470.1	376.3	371.0	349.8	328.8
125°	483.2	401.1	396.3	377.0	357.7
127.5°	496.2	425.1	420.2	400.8	381.3
130°	505.8	441.1	435.8	414.9	393.9
132.5°	513.5	454.1	448.9	428.0	407.0
135°	521.9	469.3	464.5	445.4	426.3
137.5°	534.5	488.6	483.9	465.0	446.2
140°	542.3	501.7	497.4	479.9	462.5
142.5°	548.7	511.4	507.4	491.3	475.2
145°	557.1	526.1	522.5	508.6	494.6
147.5°	569.4	544.6	541.2	527.5	513.9
150°	576.0	554.3	551.2	538.8	526.5
152.5°	580.1	560.7	558.3	549.0	539.6
155°	589.4	574.5	572.8	565.8	558.9
157.5°	598.7	588.4	586.7	580.0	573.2
160°	602.8	594.7	593.4	588.2	582.9
162.5°	607.4	601.5	600.5	596.6	592.6
165°	613.8	611.2	610.3	606.7	603.1
167.5°	618.9	616.6	616.1	614.5	612.8
170°	623.0	622.9	622.5	620.8	619.1
172.5°	623.3	623.3	623.2	622.8	622.5
175°	625.8	627.1	627.1	627.1	627.1
177.5°	626.1	627.1	627.1	627.1	627.1
180°	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934863  
 CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-4000K

**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	13.78	14.69	14.70	15.62	16.83	16.61	17.51	17.52	18.45	19.65
	3H	14.26	15.08	15.19	16.02	17.25	17.96	18.77	18.88	19.71	20.94
	4H	14.46	15.23	15.40	16.17	17.41	18.40	19.17	19.34	20.12	21.35
	6H	14.58	15.29	15.53	16.24	17.49	18.69	19.39	19.64	20.35	21.60
	8H	14.58	15.26	15.54	16.23	17.47	18.76	19.44	19.72	20.41	21.65
	12H	14.55	15.20	15.52	16.16	17.43	18.80	19.44	19.77	20.41	21.68
4H	2H	14.82	15.59	15.77	16.54	17.77	17.02	17.79	17.97	18.74	19.97
	3H	15.85	16.49	16.81	17.47	18.72	18.53	19.17	19.49	20.15	21.40
	4H	16.13	16.71	17.10	17.69	18.96	19.06	19.64	20.03	20.62	21.89
	6H	16.26	16.76	17.24	17.76	19.03	19.43	19.93	20.41	20.93	22.20
	8H	16.26	16.73	17.25	17.72	19.01	19.53	20.00	20.52	20.99	22.28
	12H	16.23	16.66	17.23	17.66	18.96	19.59	20.02	20.59	21.02	22.31
8H	4H	16.59	17.06	17.57	18.05	19.33	19.19	19.66	20.17	20.65	21.94
	6H	16.85	17.24	17.86	18.27	19.56	19.63	20.01	20.63	21.05	22.33
	8H	16.89	17.24	17.91	18.25	19.56	19.78	20.12	20.79	21.14	22.44
	12H	16.88	17.18	17.90	18.19	19.54	19.88	20.18	20.90	21.19	22.54
12H	4H	16.59	17.02	17.60	18.02	19.32	19.16	19.58	20.16	20.59	21.88
	6H	16.91	17.25	17.93	18.27	19.58	19.62	19.97	20.64	20.99	22.29
	8H	16.98	17.28	18.00	18.29	19.64	19.79	20.09	20.81	21.10	22.45