

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: P934343

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934343
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

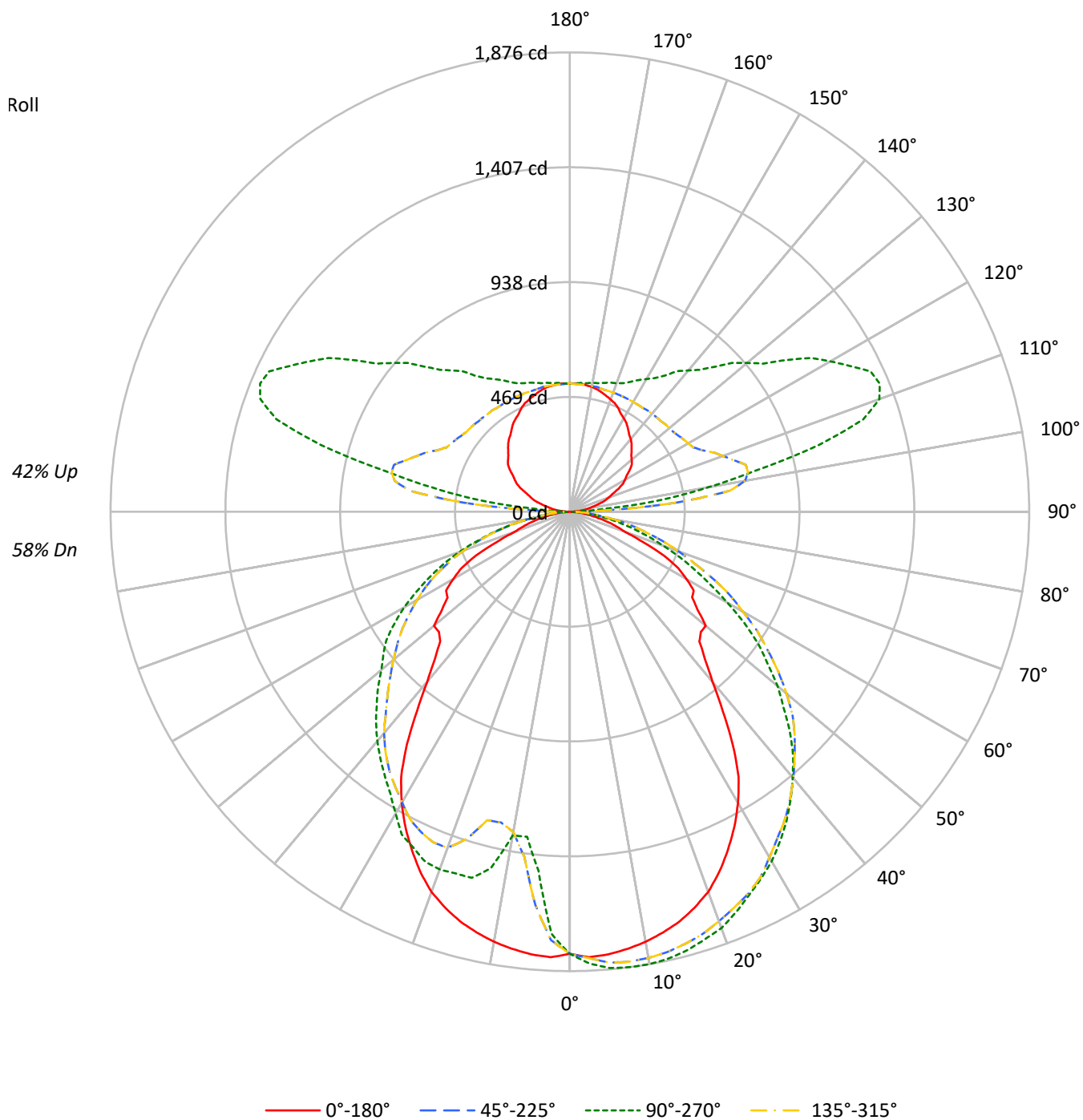
Lumens per Lamp: N/A
Luminaire Lumens: 8084.3 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 72.8
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8377	8377	8377	8377
5°	8440	8456	8440	6649
10°	8383	8330	8383	5955
15°	8292	8149	8292	6805
20°	8119	7936	8119	6819
25°	7764	7624	7764	6674
30°	7305	7365	7305	6357
35°	6512	7037	6512	6009
40°	5427	6652	5427	5745
45°	4849	6201	4849	5442
50°	5151	5663	5151	5139
55°	4846	5083	4846	4962
60°	4996	4317	4996	4545
65°	4529	3568	4529	3989
70°	3137	2844	3137	3344
75°	2751	2102	2751	2518
80°	2216	1389	2216	1513
85°	1272	736	1272	626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 7431 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	2.0
10°-20°	462.7	5.7
20°-30°	715.3	8.8
30°-40°	853.9	10.6
40°-50°	859.0	10.6
50°-60°	747.4	9.2
60°-70°	529.9	6.6
70°-80°	280.4	3.5
80°-90°	71.8	0.9
90°-100°	255.7	3.2
100°-110°	672.3	8.3
110°-120°	697.1	8.6
120°-130°	559.2	6.9
130°-140°	438.7	5.4
140°-150°	336.8	4.2
150°-160°	242.5	3.0
160°-170°	148.4	1.8
170°-180°	50.1	0.6
0°-30°	1341.1	16.6
0°-40°	2195.0	27.2
0°-60°	3801.4	47.0
0°-90°	4683.5	57.9
90°-120°	1625.1	20.1
90°-150°	2959.8	36.6
90°-180°	3401.0	42.1
0°-180°	8084.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1806	1806	1806	1806	1806	
5°	1814	1870	1814	1471	1814	172
15°	1732	1853	1732	1548	1732	487
25°	1525	1729	1525	1513	1525	700
35°	1160	1542	1160	1317	1160	718
45°	748	1271	748	1115	748	599
55°	610	938	610	916	610	560
65°	424	565	424	632	424	405
75°	161	268	161	321	161	169
85°	27	68	27	58	27	37
90°	4	13	4	13	4	4
95°	34	155	34	155	34	38
105°	121	1053	121	1053	121	128
115°	215	1356	215	1356	215	212
125°	299	1080	299	1080	299	266
135°	357	838	357	838	357	276
145°	414	680	414	680	414	259
155°	468	585	468	585	468	215
165°	504	545	504	545	504	142
175°	525	528	525	528	525	50
180°	525	525	525	525	525	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5
2.5°	1820.9	1820.9	1831.2	1834.6	1834.6	1829.5	1824.3	1829.5	1844.8	1850.0	1848.2
5°	1814.1	1827.7	1846.5	1850.0	1853.4	1851.7	1848.2	1851.7	1868.7	1872.2	1873.9
7.5°	1800.4	1826.0	1850.0	1855.1	1860.2	1855.1	1853.4	1856.8	1873.9	1877.3	1877.3
10°	1783.3	1819.2	1846.5	1850.0	1855.1	1850.0	1850.0	1856.8	1873.9	1877.3	1879.0
12.5°	1759.4	1809.0	1834.6	1838.0	1844.8	1843.1	1841.4	1848.2	1865.3	1868.7	1868.7
15°	1732.1	1790.2	1814.1	1817.5	1829.5	1826.0	1826.0	1832.9	1851.7	1856.8	1855.1
17.5°	1694.5	1766.3	1793.6	1798.7	1807.2	1805.5	1807.2	1814.1	1831.2	1834.6	1836.3
20°	1651.8	1733.8	1766.3	1771.4	1779.9	1779.9	1779.9	1788.5	1805.5	1812.4	1812.4
22.5°	1593.7	1699.6	1733.8	1737.2	1747.5	1747.5	1750.9	1762.8	1778.2	1779.9	1779.9
25°	1525.4	1662.0	1691.1	1701.3	1711.6	1716.7	1721.8	1728.7	1733.8	1732.1	1733.8
27.5°	1453.6	1614.2	1651.8	1658.6	1672.3	1677.4	1684.3	1686.0	1687.7	1692.8	1689.4
30°	1373.4	1547.6	1604.0	1610.8	1633.0	1636.4	1629.6	1633.0	1641.5	1645.0	1648.4
32.5°	1282.8	1448.5	1554.4	1569.8	1590.3	1580.1	1578.3	1583.5	1597.1	1597.1	1600.6
35°	1159.8	1371.6	1508.3	1522.0	1537.3	1525.4	1532.2	1533.9	1542.5	1547.6	1545.9
37.5°	1024.9	1305.0	1460.5	1470.7	1482.7	1467.3	1477.6	1482.7	1489.5	1486.1	1486.1
40°	905.4	1200.8	1404.1	1410.9	1421.2	1409.2	1419.5	1422.9	1426.3	1422.9	1421.2
42.5°	816.5	1086.4	1344.3	1352.9	1346.0	1354.6	1358.0	1364.8	1359.7	1352.9	1352.9
45°	748.2	1055.6	1279.4	1289.6	1279.4	1293.1	1298.2	1298.2	1282.8	1279.4	1277.7
47.5°	726.0	994.2	1214.5	1214.5	1209.4	1226.4	1235.0	1223.0	1207.7	1202.5	1202.5
50°	724.3	925.9	1125.7	1118.8	1142.7	1163.2	1154.7	1142.7	1130.8	1112.0	1112.0
52.5°	657.7	842.2	1011.3	1036.8	1074.4	1086.4	1072.7	1060.7	1040.2	1031.7	1024.9
55°	609.8	755.0	907.1	958.3	997.6	1013.0	987.4	975.4	944.7	939.5	936.1
57.5°	599.6	628.6	811.4	876.3	924.2	922.5	907.1	884.9	859.3	854.1	852.4
60°	550.1	454.4	708.9	785.8	835.3	830.2	816.5	796.0	772.1	768.7	765.3
62.5°	498.8	329.7	592.8	679.9	749.9	748.2	736.3	705.5	688.4	679.9	673.1
65°	423.6	276.7	421.9	565.4	666.2	669.6	644.0	621.8	603.0	592.8	591.1
67.5°	322.9	225.5	285.3	471.5	585.9	582.5	550.1	539.8	515.9	510.8	500.5
70°	239.2	150.3	198.2	382.6	507.4	498.8	473.2	461.2	439.0	427.1	420.2
72.5°	198.2	121.3	145.2	297.2	427.1	416.8	394.6	380.9	362.2	351.9	345.1
75°	160.6	128.1	111.0	220.4	346.8	339.9	319.4	305.8	290.4	276.7	278.4
77.5°	117.9	119.6	88.8	162.3	275.0	264.8	252.8	235.7	228.9	215.2	215.2
80°	88.8	94.0	66.6	111.0	198.2	198.2	187.9	176.0	164.0	157.2	157.2
82.5°	59.8	59.8	49.5	70.0	135.0	129.8	123.0	119.6	112.7	109.3	109.3
85°	27.3	34.2	30.7	42.7	73.5	76.9	76.9	73.5	71.7	68.3	70.0
87.5°	8.5	15.4	18.8	23.9	37.6	39.3	41.0	41.0	41.0	42.7	42.7
90°	3.5	6.3	9.1	9.8	15.5	23.0	26.7	23.7	17.9	13.4	13.4
92.5°	14.1	38.0	62.0	68.0	95.6	132.3	150.7	132.0	94.8	66.9	64.2
95°	33.8	77.6	121.5	132.4	235.1	372.0	440.5	393.1	298.3	227.1	219.1
97.5°	58.4	97.0	135.7	145.4	316.6	544.9	659.1	629.2	569.2	524.3	508.9
100°	77.5	112.5	147.5	156.3	346.3	599.7	726.4	728.6	732.9	736.2	717.9
102.5°	93.7	126.4	159.0	167.2	359.9	616.9	745.4	783.6	859.9	917.2	901.5
105°	121.1	148.8	176.5	183.5	370.1	618.9	743.3	828.8	1000.1	1128.5	1120.0
107.5°	149.3	175.1	200.9	207.4	371.9	591.3	701.0	820.4	1059.2	1238.3	1240.4
110°	168.3	191.6	215.0	220.8	369.2	566.9	665.8	799.3	1066.2	1266.4	1275.2

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	187.0	209.2	231.4	236.9	369.2	545.6	633.8	770.3	1043.6	1248.5	1262.0
115°	215.2	235.7	256.2	261.3	372.7	521.2	595.4	727.0	990.2	1187.6	1206.2
117.5°	242.9	261.5	280.2	284.9	379.6	505.8	568.9	687.7	925.3	1103.4	1124.1
120°	259.1	276.7	294.2	298.6	385.2	500.7	558.4	666.9	883.9	1046.7	1066.8
122.5°	274.9	292.6	310.3	314.7	393.2	498.0	550.3	648.0	843.5	990.1	1009.9
125°	299.3	315.3	331.5	335.5	404.2	495.7	541.5	624.5	790.6	915.1	933.4
127.5°	319.0	335.2	351.5	355.6	415.1	494.5	534.1	605.4	748.0	854.9	870.3
130°	329.5	347.0	364.6	369.0	423.0	495.2	531.3	594.7	721.7	816.8	831.1
132.5°	340.5	358.0	375.6	379.9	429.5	495.7	528.9	585.7	699.3	784.4	797.2
135°	356.7	372.7	388.5	392.6	436.5	495.2	524.6	572.2	667.3	738.6	749.7
137.5°	373.3	389.1	404.9	408.8	447.1	498.3	523.9	564.2	644.6	704.9	713.9
140°	386.9	401.5	416.0	419.7	453.6	498.8	521.4	556.2	625.6	677.8	686.1
142.5°	397.5	410.9	424.4	427.7	459.0	500.6	521.4	551.9	613.0	658.8	666.0
145°	413.7	425.4	437.2	440.1	466.1	500.7	517.9	542.9	592.9	630.3	635.7
147.5°	429.9	441.3	452.8	455.6	476.3	504.1	517.9	537.6	576.8	606.3	610.8
150°	440.5	450.8	461.1	463.7	481.8	505.9	517.9	534.5	567.7	592.6	596.3
152.5°	451.4	459.3	467.0	469.0	485.3	507.1	517.9	532.1	560.4	581.7	584.5
155°	467.5	473.4	479.2	480.6	493.1	509.7	517.9	529.2	551.7	568.6	570.5
157.5°	479.5	485.1	490.8	492.2	500.8	512.2	517.9	526.7	544.2	557.3	558.6
160°	487.6	492.1	496.4	497.5	504.4	513.4	517.9	525.5	540.4	551.7	552.4
162.5°	495.7	499.1	502.3	503.2	508.1	514.7	517.9	524.3	537.0	546.5	547.2
165°	504.5	507.5	510.4	511.2	513.4	516.4	517.9	522.5	531.5	538.4	539.1
167.5°	512.6	514.0	515.5	515.8	517.7	520.2	521.4	524.4	530.4	534.9	535.2
170°	517.9	519.3	520.8	521.1	521.2	521.4	521.4	524.4	530.4	534.9	534.9
172.5°	520.8	521.1	521.4	521.4	521.4	521.4	521.4	523.8	528.5	532.0	531.8
175°	524.6	524.6	524.6	524.6	523.6	522.1	521.4	522.9	525.9	528.1	528.1
177.5°	524.6	524.6	524.6	524.6	523.8	522.6	522.1	523.3	525.6	527.4	527.1
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5
2.5°	1851.7	1846.5	1851.7	1848.2	1850.0	1844.8	1829.5	1824.3	1829.5	1834.6	1834.6
5°	1873.9	1870.5	1873.9	1873.9	1872.2	1868.7	1851.7	1848.2	1851.7	1853.4	1850.0
7.5°	1880.7	1875.6	1880.7	1877.3	1877.3	1873.9	1856.8	1853.4	1855.1	1860.2	1855.1
10°	1880.7	1875.6	1880.7	1879.0	1877.3	1873.9	1856.8	1850.0	1850.0	1855.1	1850.0
12.5°	1872.2	1868.7	1872.2	1868.7	1868.7	1865.3	1848.2	1841.4	1843.1	1844.8	1838.0
15°	1858.5	1853.4	1858.5	1855.1	1856.8	1851.7	1832.9	1826.0	1826.0	1829.5	1817.5
17.5°	1838.0	1831.2	1838.0	1836.3	1834.6	1831.2	1814.1	1807.2	1805.5	1807.2	1798.7
20°	1814.1	1809.0	1814.1	1812.4	1812.4	1805.5	1788.5	1779.9	1779.9	1779.9	1771.4
22.5°	1776.5	1771.4	1776.5	1779.9	1779.9	1778.2	1762.8	1750.9	1747.5	1747.5	1737.2
25°	1733.8	1728.7	1733.8	1733.8	1732.1	1733.8	1728.7	1721.8	1716.7	1711.6	1701.3
27.5°	1692.8	1689.4	1692.8	1689.4	1692.8	1687.7	1686.0	1684.3	1677.4	1672.3	1658.6
30°	1651.8	1648.4	1651.8	1648.4	1645.0	1641.5	1633.0	1629.6	1636.4	1633.0	1610.8
32.5°	1600.6	1597.1	1600.6	1600.6	1597.1	1597.1	1583.5	1578.3	1580.1	1590.3	1569.8
35°	1547.6	1542.5	1547.6	1545.9	1547.6	1542.5	1533.9	1532.2	1525.4	1537.3	1522.0
37.5°	1486.1	1481.0	1486.1	1486.1	1486.1	1489.5	1482.7	1477.6	1467.3	1482.7	1470.7
40°	1422.9	1416.1	1422.9	1421.2	1422.9	1426.3	1422.9	1419.5	1409.2	1421.2	1410.9
42.5°	1351.1	1349.4	1351.1	1352.9	1352.9	1359.7	1364.8	1358.0	1354.6	1346.0	1352.9
45°	1274.3	1270.9	1274.3	1277.7	1279.4	1282.8	1298.2	1298.2	1293.1	1279.4	1289.6
47.5°	1192.3	1183.7	1192.3	1202.5	1202.5	1207.7	1223.0	1235.0	1226.4	1209.4	1214.5
50°	1105.2	1106.9	1105.2	1112.0	1112.0	1130.8	1142.7	1154.7	1163.2	1142.7	1118.8
52.5°	1019.7	1018.1	1019.7	1024.9	1031.7	1040.2	1060.7	1072.7	1086.4	1074.4	1036.8
55°	934.4	937.8	934.4	936.1	939.5	944.7	975.4	987.4	1013.0	997.6	958.3
57.5°	849.0	843.9	849.0	852.4	854.1	859.3	884.9	907.1	922.5	924.2	876.3
60°	749.9	743.1	749.9	765.3	768.7	772.1	796.0	816.5	830.2	835.3	785.8
62.5°	662.8	650.8	662.8	673.1	679.9	688.4	705.5	736.3	748.2	749.9	679.9
65°	570.6	565.4	570.6	591.1	592.8	603.0	621.8	644.0	669.6	666.2	565.4
67.5°	486.9	486.9	486.9	500.5	510.8	515.9	539.8	550.1	582.5	585.9	471.5
70°	410.0	408.3	410.0	420.2	427.1	439.0	461.2	473.2	498.8	507.4	382.6
72.5°	336.5	334.8	336.5	345.1	351.9	362.2	380.9	394.6	416.8	427.1	297.2
75°	271.6	268.2	271.6	278.4	276.7	290.4	305.8	319.4	339.9	346.8	220.4
77.5°	208.4	208.4	208.4	215.2	215.2	228.9	235.7	252.8	264.8	275.0	162.3
80°	155.5	153.7	155.5	157.2	157.2	164.0	176.0	187.9	198.2	198.2	111.0
82.5°	109.3	105.9	109.3	109.3	109.3	112.7	119.6	123.0	129.8	135.0	70.0
85°	68.3	68.3	68.3	70.0	68.3	71.7	73.5	76.9	76.9	73.5	42.7
87.5°	44.4	42.7	44.4	42.7	42.7	41.0	41.0	41.0	39.3	37.6	23.9
90°	13.4	13.4	13.4	13.4	13.4	17.9	23.7	26.7	23.0	15.5	9.8
92.5°	53.6	43.0	53.6	64.2	66.9	94.8	132.0	150.7	132.3	95.6	68.0
95°	186.8	154.6	186.8	219.1	227.1	298.3	393.1	440.5	372.0	235.1	132.4
97.5°	447.6	386.2	447.6	508.9	524.3	569.2	629.2	659.1	544.9	316.6	145.4
100°	644.9	571.8	644.9	717.9	736.2	732.9	728.6	726.4	599.7	346.3	156.3
102.5°	838.9	776.3	838.9	901.5	917.2	859.9	783.6	745.4	616.9	359.9	167.2
105°	1086.4	1052.7	1086.4	1120.0	1128.5	1000.1	828.8	743.3	618.9	370.1	183.5
107.5°	1248.5	1256.6	1248.5	1240.4	1238.3	1059.2	820.4	701.0	591.3	371.9	207.4
110°	1310.2	1345.3	1310.2	1275.2	1266.4	1066.2	799.3	665.8	566.9	369.2	220.8

TEST NUMBER: P934343

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1315.8	1369.6	1315.8	1262.0	1248.5	1043.6	770.3	633.8	545.6	369.2	236.9
115°	1280.9	1355.5	1280.9	1206.2	1187.6	990.2	727.0	595.4	521.2	372.7	261.3
117.5°	1207.0	1289.7	1207.0	1124.1	1103.4	925.3	687.7	568.9	505.8	379.6	284.9
120°	1147.3	1227.7	1147.3	1066.8	1046.7	883.9	666.9	558.4	500.7	385.2	298.6
122.5°	1089.3	1168.6	1089.3	1009.9	990.1	843.5	648.0	550.3	498.0	393.2	314.7
125°	1006.4	1079.5	1006.4	933.4	915.1	790.6	624.5	541.5	495.7	404.2	335.5
127.5°	931.9	993.6	931.9	870.3	854.9	748.0	605.4	534.1	494.5	415.1	355.6
130°	888.0	945.0	888.0	831.1	816.8	721.7	594.7	531.3	495.2	423.0	369.0
132.5°	848.2	899.2	848.2	797.2	784.4	699.3	585.7	528.9	495.7	429.5	379.9
135°	793.7	837.6	793.7	749.7	738.6	667.3	572.2	524.6	495.2	436.5	392.6
137.5°	749.9	785.9	749.9	713.9	704.9	644.6	564.2	523.9	498.3	447.1	408.8
140°	719.8	753.4	719.8	686.1	677.8	625.6	556.2	521.4	498.8	453.6	419.7
142.5°	694.9	723.9	694.9	666.0	658.8	613.0	551.9	521.4	500.6	459.0	427.7
145°	657.7	679.5	657.7	635.7	630.3	592.9	542.9	517.9	500.7	466.1	440.1
147.5°	629.0	647.2	629.0	610.8	606.3	576.8	537.6	517.9	504.1	476.3	455.6
150°	611.0	625.6	611.0	596.3	592.6	567.7	534.5	517.9	505.9	481.8	463.7
152.5°	595.6	606.7	595.6	584.5	581.7	560.4	532.1	517.9	507.1	485.3	469.0
155°	577.8	585.2	577.8	570.5	568.6	551.7	529.2	517.9	509.7	493.1	480.6
157.5°	563.8	568.9	563.8	558.6	557.3	544.2	526.7	517.9	512.2	500.8	492.2
160°	555.4	558.4	555.4	552.4	551.7	540.4	525.5	517.9	513.4	504.4	497.5
162.5°	550.0	552.8	550.0	547.2	546.5	537.0	524.3	517.9	514.7	508.1	503.2
165°	542.0	545.0	542.0	539.1	538.4	531.5	522.5	517.9	516.4	513.4	511.2
167.5°	536.4	537.7	536.4	535.2	534.9	530.4	524.4	521.4	520.2	517.7	515.8
170°	534.9	534.9	534.9	534.9	534.9	530.4	524.4	521.4	521.4	521.2	521.1
172.5°	530.7	529.6	530.7	531.8	532.0	528.5	523.8	521.4	521.4	521.4	521.4
175°	528.1	528.1	528.1	528.1	528.1	525.9	522.9	521.4	522.1	523.6	524.6
177.5°	525.9	524.6	525.9	527.1	527.4	525.6	523.3	522.1	522.6	523.8	524.6
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6

TEST NUMBER: P934343

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5
2.5°	1831.2	1820.9	1820.9	1803.8	1797.0	1791.9	1783.3	1757.7	1750.9	1744.0	1754.3
5°	1846.5	1827.7	1814.1	1783.3	1757.7	1747.5	1715.0	1653.5	1612.5	1581.8	1564.7
7.5°	1850.0	1826.0	1800.4	1752.6	1691.1	1663.8	1564.7	1451.9	1421.2	1393.9	1376.8
10°	1846.5	1819.2	1783.3	1711.6	1566.4	1518.6	1419.5	1346.0	1327.2	1322.1	1327.2
12.5°	1834.6	1809.0	1759.4	1639.8	1436.6	1404.1	1346.0	1303.3	1299.9	1308.4	1354.6
15°	1814.1	1790.2	1732.1	1544.2	1364.8	1340.9	1299.9	1284.5	1303.3	1363.1	1501.5
17.5°	1793.6	1766.3	1694.5	1450.2	1310.1	1293.1	1264.0	1294.8	1400.7	1481.0	1527.1
20°	1766.3	1733.8	1651.8	1381.9	1270.9	1255.5	1241.8	1380.2	1460.5	1489.5	1515.1
22.5°	1733.8	1699.6	1593.7	1334.1	1229.9	1217.9	1226.4	1428.0	1460.5	1481.0	1503.2
25°	1691.1	1662.0	1525.4	1296.5	1197.4	1183.7	1216.2	1422.9	1441.7	1446.8	1491.2
27.5°	1651.8	1614.2	1453.6	1262.3	1158.1	1153.0	1224.7	1400.7	1414.4	1419.5	1467.3
30°	1604.0	1547.6	1373.4	1226.4	1117.1	1115.4	1226.4	1373.4	1369.9	1383.6	1431.4
32.5°	1554.4	1448.5	1282.8	1182.0	1077.8	1076.1	1214.5	1332.4	1328.9	1347.7	1383.6
35°	1508.3	1371.6	1159.8	1130.8	1028.3	1030.0	1185.4	1284.5	1286.2	1303.3	1325.5
37.5°	1460.5	1305.0	1024.9	1074.4	980.5	980.5	1146.2	1240.1	1236.7	1241.8	1272.6
40°	1404.1	1200.8	905.4	1001.0	936.1	931.0	1098.3	1192.3	1180.3	1178.6	1221.3
42.5°	1344.3	1086.4	816.5	903.7	884.9	878.0	1040.2	1134.2	1112.0	1117.1	1171.8
45°	1279.4	1055.6	748.2	763.6	831.9	826.8	977.1	1067.6	1052.2	1065.9	1122.2
47.5°	1214.5	994.2	726.0	633.8	775.5	773.8	907.1	1002.7	994.2	1007.9	1067.6
50°	1125.7	925.9	724.3	543.2	712.3	719.2	823.4	939.5	939.5	951.5	1014.7
52.5°	1011.3	842.2	657.7	492.0	638.9	659.4	749.9	884.9	888.3	900.3	956.6
55°	907.1	755.0	609.8	452.7	551.8	596.2	678.2	828.5	835.3	847.3	898.5
57.5°	811.4	628.6	599.6	406.6	471.5	514.2	615.0	773.8	777.3	787.5	837.0
60°	708.9	454.4	550.1	357.0	401.4	433.9	556.9	708.9	720.9	727.7	770.4
62.5°	592.8	329.7	498.8	322.9	367.3	374.1	509.1	647.4	662.8	667.9	693.6
65°	421.9	276.7	423.6	293.8	331.4	333.1	457.8	584.2	597.9	606.4	625.2
67.5°	285.3	225.5	322.9	266.5	304.1	305.8	408.3	510.8	529.6	536.4	548.4
70°	198.2	150.3	239.2	237.4	273.3	276.7	355.3	444.1	461.2	466.4	473.2
72.5°	145.2	121.3	198.2	213.5	240.9	244.3	300.7	369.0	386.1	391.2	394.6
75°	111.0	128.1	160.6	186.2	205.0	206.7	246.0	300.7	312.6	316.0	317.7
77.5°	88.8	119.6	117.9	150.3	167.4	164.0	193.0	232.3	242.6	242.6	242.6
80°	66.6	94.0	88.8	107.6	123.0	119.6	138.4	165.7	169.1	172.5	170.8
82.5°	49.5	59.8	59.8	68.3	82.0	78.6	92.2	107.6	107.6	107.6	111.0
85°	30.7	34.2	27.3	35.9	46.1	44.4	51.2	58.1	59.8	59.8	56.4
87.5°	18.8	15.4	8.5	13.7	20.5	20.5	23.9	25.6	23.9	23.9	23.9
90°	9.1	6.3	3.5	6.3	9.1	9.8	15.5	23.0	26.7	23.7	17.9
92.5°	62.0	38.0	14.1	38.0	62.0	68.0	95.6	132.3	150.7	132.0	94.8
95°	121.5	77.6	33.8	77.6	121.5	132.4	235.1	372.0	440.5	393.1	298.3
97.5°	135.7	97.0	58.4	97.0	135.7	145.4	316.6	544.9	659.1	629.2	569.2
100°	147.5	112.5	77.5	112.5	147.5	156.3	346.3	599.7	726.4	728.6	732.9
102.5°	159.0	126.4	93.7	126.4	159.0	167.2	359.9	616.9	745.4	783.6	859.9
105°	176.5	148.8	121.1	148.8	176.5	183.5	370.1	618.9	743.3	828.8	1000.1
107.5°	200.9	175.1	149.3	175.1	200.9	207.4	371.9	591.3	701.0	820.4	1059.2
110°	215.0	191.6	168.3	191.6	215.0	220.8	369.2	566.9	665.8	799.3	1066.2

TEST NUMBER: P934343

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	231.4	209.2	187.0	209.2	231.4	236.9	369.2	545.6	633.8	770.3	1043.6
115°	256.2	235.7	215.2	235.7	256.2	261.3	372.7	521.2	595.4	727.0	990.2
117.5°	280.2	261.5	242.9	261.5	280.2	284.9	379.6	505.8	568.9	687.7	925.3
120°	294.2	276.7	259.1	276.7	294.2	298.6	385.2	500.7	558.4	666.9	883.9
122.5°	310.3	292.6	274.9	292.6	310.3	314.7	393.2	498.0	550.3	648.0	843.5
125°	331.5	315.3	299.3	315.3	331.5	335.5	404.2	495.7	541.5	624.5	790.6
127.5°	351.5	335.2	319.0	335.2	351.5	355.6	415.1	494.5	534.1	605.4	748.0
130°	364.6	347.0	329.5	347.0	364.6	369.0	423.0	495.2	531.3	594.7	721.7
132.5°	375.6	358.0	340.5	358.0	375.6	379.9	429.5	495.7	528.9	585.7	699.3
135°	388.5	372.7	356.7	372.7	388.5	392.6	436.5	495.2	524.6	572.2	667.3
137.5°	404.9	389.1	373.3	389.1	404.9	408.8	447.1	498.3	523.9	564.2	644.6
140°	416.0	401.5	386.9	401.5	416.0	419.7	453.6	498.8	521.4	556.2	625.6
142.5°	424.4	410.9	397.5	410.9	424.4	427.7	459.0	500.6	521.4	551.9	613.0
145°	437.2	425.4	413.7	425.4	437.2	440.1	466.1	500.7	517.9	542.9	592.9
147.5°	452.8	441.3	429.9	441.3	452.8	455.6	476.3	504.1	517.9	537.6	576.8
150°	461.1	450.8	440.5	450.8	461.1	463.7	481.8	505.9	517.9	534.5	567.7
152.5°	467.0	459.3	451.4	459.3	467.0	469.0	485.3	507.1	517.9	532.1	560.4
155°	479.2	473.4	467.5	473.4	479.2	480.6	493.1	509.7	517.9	529.2	551.7
157.5°	490.8	485.1	479.5	485.1	490.8	492.2	500.8	512.2	517.9	526.7	544.2
160°	496.4	492.1	487.6	492.1	496.4	497.5	504.4	513.4	517.9	525.5	540.4
162.5°	502.3	499.1	495.7	499.1	502.3	503.2	508.1	514.7	517.9	524.3	537.0
165°	510.4	507.5	504.5	507.5	510.4	511.2	513.4	516.4	517.9	522.5	531.5
167.5°	515.5	514.0	512.6	514.0	515.5	515.8	517.7	520.2	521.4	524.4	530.4
170°	520.8	519.3	517.9	519.3	520.8	521.1	521.2	521.4	521.4	524.4	530.4
172.5°	521.4	521.1	520.8	521.1	521.4	521.4	521.4	521.4	521.4	523.8	528.5
175°	524.6	524.6	524.6	524.6	524.6	524.6	523.6	522.1	521.4	522.9	525.9
177.5°	524.6	524.6	524.6	524.6	524.6	524.6	523.8	522.6	522.1	523.3	525.6
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6

TEST NUMBER: P934343

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5	1805.5
2.5°	1742.3	1737.2	1744.0	1725.3	1744.0	1737.2	1742.3	1754.3	1744.0	1750.9	1757.7
5°	1528.8	1520.3	1492.9	1470.7	1492.9	1520.3	1528.8	1564.7	1581.8	1612.5	1653.5
7.5°	1366.5	1359.7	1352.9	1339.2	1352.9	1359.7	1366.5	1376.8	1393.9	1421.2	1451.9
10°	1330.6	1332.4	1342.6	1340.9	1342.6	1332.4	1330.6	1327.2	1322.1	1327.2	1346.0
12.5°	1422.9	1438.3	1494.6	1491.2	1494.6	1438.3	1422.9	1354.6	1308.4	1299.9	1303.3
15°	1528.8	1533.9	1545.9	1547.6	1545.9	1533.9	1528.8	1501.5	1363.1	1303.3	1284.5
17.5°	1539.1	1540.8	1549.3	1549.3	1549.3	1540.8	1539.1	1527.1	1481.0	1400.7	1294.8
20°	1530.5	1533.9	1551.0	1554.4	1551.0	1533.9	1530.5	1515.1	1489.5	1460.5	1380.2
22.5°	1527.1	1533.9	1547.6	1545.9	1547.6	1533.9	1527.1	1503.2	1481.0	1460.5	1428.0
25°	1510.0	1510.0	1511.7	1513.4	1511.7	1510.0	1510.0	1491.2	1446.8	1441.7	1422.9
27.5°	1474.1	1477.6	1487.8	1486.1	1487.8	1477.6	1474.1	1467.3	1419.5	1414.4	1400.7
30°	1441.7	1438.3	1429.7	1422.9	1429.7	1438.3	1441.7	1431.4	1383.6	1369.9	1373.4
32.5°	1387.0	1378.5	1369.9	1364.8	1369.9	1378.5	1387.0	1383.6	1347.7	1328.9	1332.4
35°	1322.1	1323.8	1322.1	1317.0	1322.1	1323.8	1322.1	1325.5	1303.3	1286.2	1284.5
37.5°	1276.0	1279.4	1277.7	1270.9	1277.7	1279.4	1276.0	1272.6	1241.8	1236.7	1240.1
40°	1228.2	1229.9	1228.2	1223.0	1228.2	1229.9	1228.2	1221.3	1178.6	1180.3	1192.3
42.5°	1182.0	1180.3	1175.2	1171.8	1175.2	1180.3	1182.0	1171.8	1117.1	1112.0	1134.2
45°	1129.1	1130.8	1120.5	1115.4	1120.5	1130.8	1129.1	1122.2	1065.9	1052.2	1067.6
47.5°	1076.1	1076.1	1067.6	1062.4	1067.6	1076.1	1076.1	1067.6	1007.9	994.2	1002.7
50°	1019.7	1018.1	1006.2	1004.5	1006.2	1018.1	1019.7	1014.7	951.5	939.5	939.5
52.5°	954.9	954.9	956.6	960.0	956.6	954.9	954.9	956.6	900.3	888.3	884.9
55°	898.5	900.3	912.2	915.6	912.2	900.3	898.5	898.5	847.3	835.3	828.5
57.5°	840.5	840.5	849.0	849.0	849.0	840.5	840.5	837.0	787.5	777.3	773.8
60°	773.8	777.3	784.1	782.4	784.1	777.3	773.8	770.4	727.7	720.9	708.9
62.5°	703.8	707.2	708.9	705.5	708.9	707.2	703.8	693.6	667.9	662.8	647.4
65°	630.3	633.8	635.5	632.1	635.5	633.8	630.3	625.2	606.4	597.9	584.2
67.5°	555.2	553.5	551.8	558.6	551.8	553.5	555.2	548.4	536.4	529.6	510.8
70°	478.3	478.3	476.6	480.0	476.6	478.3	478.3	473.2	466.4	461.2	444.1
72.5°	396.3	394.6	401.4	396.3	401.4	394.6	396.3	394.6	391.2	386.1	369.0
75°	316.0	319.4	316.0	321.2	316.0	319.4	316.0	317.7	316.0	312.6	300.7
77.5°	240.9	244.3	240.9	240.9	240.9	244.3	240.9	242.6	242.6	242.6	232.3
80°	170.8	169.1	169.1	167.4	169.1	169.1	170.8	170.8	172.5	169.1	165.7
82.5°	109.3	107.6	107.6	111.0	107.6	107.6	109.3	111.0	107.6	107.6	107.6
85°	59.8	61.5	58.1	58.1	58.1	61.5	59.8	56.4	59.8	59.8	58.1
87.5°	22.2	20.5	20.5	20.5	20.5	20.5	22.2	23.9	23.9	23.9	25.6
90°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	17.9	23.7	26.7	23.0
92.5°	66.9	64.2	53.6	43.0	53.6	64.2	66.9	94.8	132.0	150.7	132.3
95°	227.1	219.1	186.8	154.6	186.8	219.1	227.1	298.3	393.1	440.5	372.0
97.5°	524.3	508.9	447.6	386.2	447.6	508.9	524.3	569.2	629.2	659.1	544.9
100°	736.2	717.9	644.9	571.8	644.9	717.9	736.2	732.9	728.6	726.4	599.7
102.5°	917.2	901.5	838.9	776.3	838.9	901.5	917.2	859.9	783.6	745.4	616.9
105°	1128.5	1120.0	1086.4	1052.7	1086.4	1120.0	1128.5	1000.1	828.8	743.3	618.9
107.5°	1238.3	1240.4	1248.5	1256.6	1248.5	1240.4	1238.3	1059.2	820.4	701.0	591.3
110°	1266.4	1275.2	1310.2	1345.3	1310.2	1275.2	1266.4	1066.2	799.3	665.8	566.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1248.5	1262.0	1315.8	1369.6	1315.8	1262.0	1248.5	1043.6	770.3	633.8	545.6
115°	1187.6	1206.2	1280.9	1355.5	1280.9	1206.2	1187.6	990.2	727.0	595.4	521.2
117.5°	1103.4	1124.1	1207.0	1289.7	1207.0	1124.1	1103.4	925.3	687.7	568.9	505.8
120°	1046.7	1066.8	1147.3	1227.7	1147.3	1066.8	1046.7	883.9	666.9	558.4	500.7
122.5°	990.1	1009.9	1089.3	1168.6	1089.3	1009.9	990.1	843.5	648.0	550.3	498.0
125°	915.1	933.4	1006.4	1079.5	1006.4	933.4	915.1	790.6	624.5	541.5	495.7
127.5°	854.9	870.3	931.9	993.6	931.9	870.3	854.9	748.0	605.4	534.1	494.5
130°	816.8	831.1	888.0	945.0	888.0	831.1	816.8	721.7	594.7	531.3	495.2
132.5°	784.4	797.2	848.2	899.2	848.2	797.2	784.4	699.3	585.7	528.9	495.7
135°	738.6	749.7	793.7	837.6	793.7	749.7	738.6	667.3	572.2	524.6	495.2
137.5°	704.9	713.9	749.9	785.9	749.9	713.9	704.9	644.6	564.2	523.9	498.3
140°	677.8	686.1	719.8	753.4	719.8	686.1	677.8	625.6	556.2	521.4	498.8
142.5°	658.8	666.0	694.9	723.9	694.9	666.0	658.8	613.0	551.9	521.4	500.6
145°	630.3	635.7	657.7	679.5	657.7	635.7	630.3	592.9	542.9	517.9	500.7
147.5°	606.3	610.8	629.0	647.2	629.0	610.8	606.3	576.8	537.6	517.9	504.1
150°	592.6	596.3	611.0	625.6	611.0	596.3	592.6	567.7	534.5	517.9	505.9
152.5°	581.7	584.5	595.6	606.7	595.6	584.5	581.7	560.4	532.1	517.9	507.1
155°	568.6	570.5	577.8	585.2	577.8	570.5	568.6	551.7	529.2	517.9	509.7
157.5°	557.3	558.6	563.8	568.9	563.8	558.6	557.3	544.2	526.7	517.9	512.2
160°	551.7	552.4	555.4	558.4	555.4	552.4	551.7	540.4	525.5	517.9	513.4
162.5°	546.5	547.2	550.0	552.8	550.0	547.2	546.5	537.0	524.3	517.9	514.7
165°	538.4	539.1	542.0	545.0	542.0	539.1	538.4	531.5	522.5	517.9	516.4
167.5°	534.9	535.2	536.4	537.7	536.4	535.2	534.9	530.4	524.4	521.4	520.2
170°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	530.4	524.4	521.4	521.4
172.5°	532.0	531.8	530.7	529.6	530.7	531.8	532.0	528.5	523.8	521.4	521.4
175°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	525.9	522.9	521.4	522.1
177.5°	527.4	527.1	525.9	524.6	525.9	527.1	527.4	525.6	523.3	522.1	522.6
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1805.5	1805.5	1805.5	1805.5	1805.5
2.5°	1783.3	1791.9	1797.0	1803.8	1820.9
5°	1715.0	1747.5	1757.7	1783.3	1814.1
7.5°	1564.7	1663.8	1691.1	1752.6	1800.4
10°	1419.5	1518.6	1566.4	1711.6	1783.3
12.5°	1346.0	1404.1	1436.6	1639.8	1759.4
15°	1299.9	1340.9	1364.8	1544.2	1732.1
17.5°	1264.0	1293.1	1310.1	1450.2	1694.5
20°	1241.8	1255.5	1270.9	1381.9	1651.8
22.5°	1226.4	1217.9	1229.9	1334.1	1593.7
25°	1216.2	1183.7	1197.4	1296.5	1525.4
27.5°	1224.7	1153.0	1158.1	1262.3	1453.6
30°	1226.4	1115.4	1117.1	1226.4	1373.4
32.5°	1214.5	1076.1	1077.8	1182.0	1282.8
35°	1185.4	1030.0	1028.3	1130.8	1159.8
37.5°	1146.2	980.5	980.5	1074.4	1024.9
40°	1098.3	931.0	936.1	1001.0	905.4
42.5°	1040.2	878.0	884.9	903.7	816.5
45°	977.1	826.8	831.9	763.6	748.2
47.5°	907.1	773.8	775.5	633.8	726.0
50°	823.4	719.2	712.3	543.2	724.3
52.5°	749.9	659.4	638.9	492.0	657.7
55°	678.2	596.2	551.8	452.7	609.8
57.5°	615.0	514.2	471.5	406.6	599.6
60°	556.9	433.9	401.4	357.0	550.1
62.5°	509.1	374.1	367.3	322.9	498.8
65°	457.8	333.1	331.4	293.8	423.6
67.5°	408.3	305.8	304.1	266.5	322.9
70°	355.3	276.7	273.3	237.4	239.2
72.5°	300.7	244.3	240.9	213.5	198.2
75°	246.0	206.7	205.0	186.2	160.6
77.5°	193.0	164.0	167.4	150.3	117.9
80°	138.4	119.6	123.0	107.6	88.8
82.5°	92.2	78.6	82.0	68.3	59.8
85°	51.2	44.4	46.1	35.9	27.3
87.5°	23.9	20.5	20.5	13.7	8.5
90°	15.5	9.8	9.1	6.3	3.5
92.5°	95.6	68.0	62.0	38.0	14.1
95°	235.1	132.4	121.5	77.6	33.8
97.5°	316.6	145.4	135.7	97.0	58.4
100°	346.3	156.3	147.5	112.5	77.5
102.5°	359.9	167.2	159.0	126.4	93.7
105°	370.1	183.5	176.5	148.8	121.1
107.5°	371.9	207.4	200.9	175.1	149.3
110°	369.2	220.8	215.0	191.6	168.3



TEST NUMBER: P934343

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	369.2	236.9	231.4	209.2	187.0
115°	372.7	261.3	256.2	235.7	215.2
117.5°	379.6	284.9	280.2	261.5	242.9
120°	385.2	298.6	294.2	276.7	259.1
122.5°	393.2	314.7	310.3	292.6	274.9
125°	404.2	335.5	331.5	315.3	299.3
127.5°	415.1	355.6	351.5	335.2	319.0
130°	423.0	369.0	364.6	347.0	329.5
132.5°	429.5	379.9	375.6	358.0	340.5
135°	436.5	392.6	388.5	372.7	356.7
137.5°	447.1	408.8	404.9	389.1	373.3
140°	453.6	419.7	416.0	401.5	386.9
142.5°	459.0	427.7	424.4	410.9	397.5
145°	466.1	440.1	437.2	425.4	413.7
147.5°	476.3	455.6	452.8	441.3	429.9
150°	481.8	463.7	461.1	450.8	440.5
152.5°	485.3	469.0	467.0	459.3	451.4
155°	493.1	480.6	479.2	473.4	467.5
157.5°	500.8	492.2	490.8	485.1	479.5
160°	504.4	497.5	496.4	492.1	487.6
162.5°	508.1	503.2	502.3	499.1	495.7
165°	513.4	511.2	510.4	507.5	504.5
167.5°	517.7	515.8	515.5	514.0	512.6
170°	521.2	521.1	520.8	519.3	517.9
172.5°	521.4	521.4	521.4	521.1	520.8
175°	523.6	524.6	524.6	524.6	524.6
177.5°	523.8	524.6	524.6	524.6	524.6
180°	524.6	524.6	524.6	524.6	524.6

TEST NUMBER: P934343

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.89	13.83	13.78	14.74	15.89	15.73	16.67	16.62	17.58	18.73
	3H	13.38	14.22	14.28	15.13	16.31	17.09	17.93	17.98	18.84	20.02
	4H	13.57	14.37	14.49	15.29	16.48	17.53	18.33	18.45	19.25	20.44
	6H	13.69	14.43	14.62	15.35	16.56	17.83	18.56	18.75	19.49	20.69
	8H	13.70	14.39	14.63	15.34	16.54	17.90	18.60	18.84	19.55	20.75
	12H	13.67	14.34	14.61	15.27	16.50	17.95	18.61	18.88	19.55	20.77
4H	2H	13.94	14.73	14.86	15.65	16.84	16.15	16.94	17.07	17.87	19.05
	3H	14.97	15.63	15.90	16.59	17.79	17.67	18.33	18.59	19.28	20.48
	4H	15.25	15.86	16.19	16.80	18.03	18.20	18.80	19.14	19.75	20.98
	6H	15.38	15.90	16.33	16.87	18.10	18.57	19.09	19.52	20.06	21.29
	8H	15.39	15.87	16.34	16.84	18.08	18.68	19.17	19.64	20.13	21.37
	12H	15.36	15.80	16.33	16.78	18.03	18.74	19.18	19.72	20.16	21.41
8H	4H	15.71	16.20	16.67	17.16	18.41	18.33	18.81	19.28	19.78	21.02
	6H	15.98	16.38	16.96	17.39	18.63	18.77	19.17	19.75	20.18	21.42
	8H	16.02	16.38	17.01	17.37	18.63	18.92	19.28	19.91	20.27	21.53
	12H	16.01	16.32	17.00	17.31	18.62	19.03	19.34	20.02	20.33	21.63
12H	4H	15.72	16.16	16.70	17.14	18.39	18.30	18.74	19.27	19.72	20.96
	6H	16.04	16.39	17.03	17.39	18.65	18.77	19.12	19.76	20.12	21.38
	8H	16.11	16.42	17.10	17.41	18.72	18.93	19.25	19.93	20.24	21.54

END OF REPORT