

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: P934344

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934344
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-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

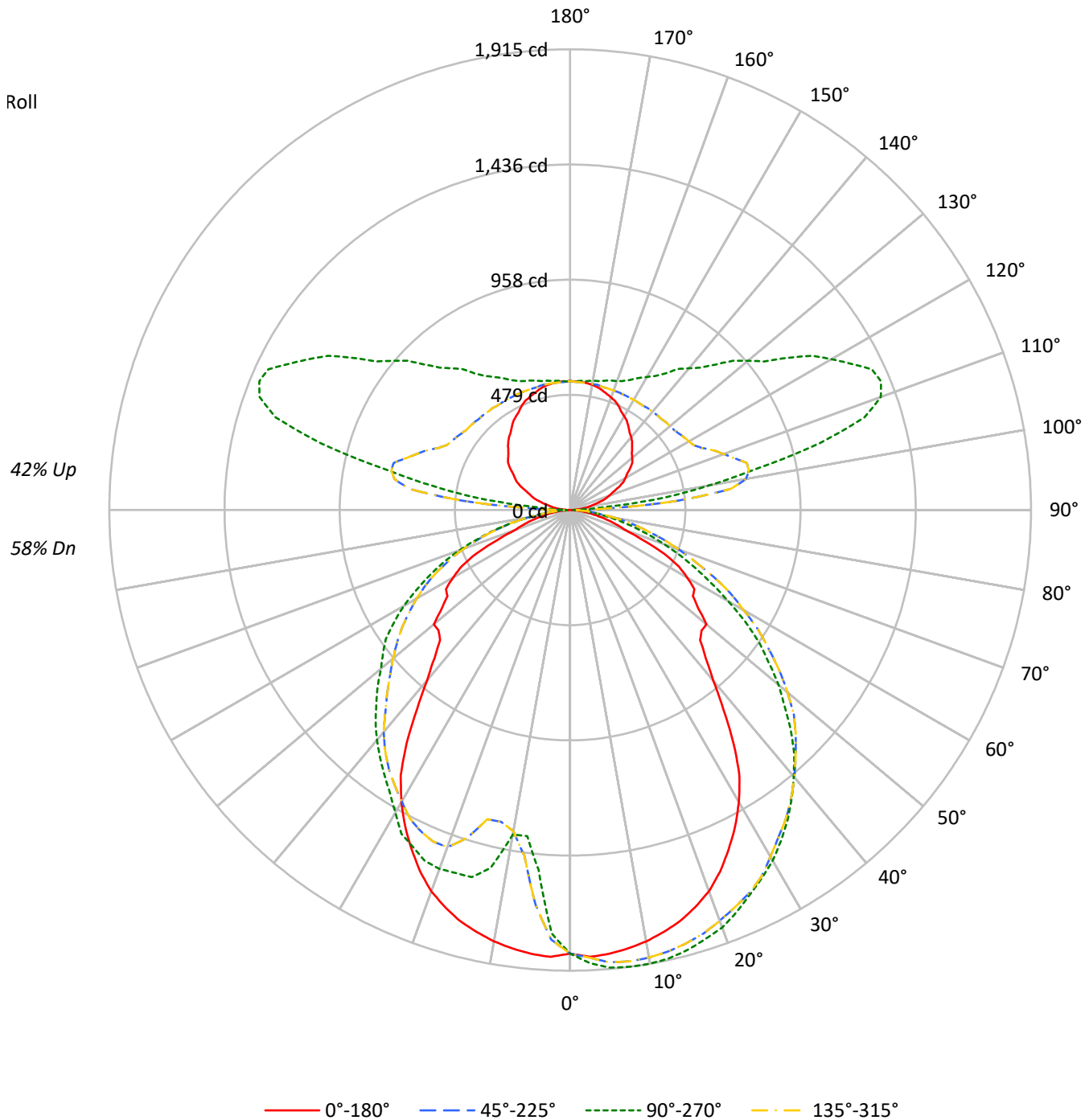
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8253.9 lumens
Efficiency: N/A
Efficacy: 113.4 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									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																								
RCR																																																						
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58																																				
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49																																				
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41																																				
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35																																				
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30																																				
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26																																				
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23																																				
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20																																				
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18																																				
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16																																				
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8553	8553	8553	8553
5°	8616	8634	8616	6789
10°	8559	8504	8559	6080
15°	8466	8320	8466	6947
20°	8289	8102	8289	6962
25°	7927	7783	7927	6815
30°	7458	7519	7458	6490
35°	6648	7185	6648	6135
40°	5541	6791	5541	5866
45°	4950	6331	4950	5556
50°	5259	5781	5259	5246
55°	4948	5190	4948	5066
60°	5101	4408	5101	4641
65°	4624	3643	4624	4073
70°	3203	2903	3203	3414
75°	2807	2146	2807	2570
80°	2263	1419	2263	1545
85°	1300	752	1300	639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7587 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	2.0
10°-20°	472.4	5.7
20°-30°	730.3	8.8
30°-40°	871.8	10.6
40°-50°	877.0	10.6
50°-60°	763.1	9.2
60°-70°	541.0	6.6
70°-80°	286.2	3.5
80°-90°	73.3	0.9
90°-100°	261.1	3.2
100°-110°	686.4	8.3
110°-120°	711.7	8.6
120°-130°	570.9	6.9
130°-140°	447.9	5.4
140°-150°	343.8	4.2
150°-160°	247.6	3.0
160°-170°	151.5	1.8
170°-180°	51.2	0.6
0°-30°	1369.2	16.6
0°-40°	2241.0	27.2
0°-60°	3881.0	47.0
0°-90°	4781.7	57.9
90°-120°	1659.2	20.1
90°-150°	3021.9	36.6
90°-180°	3472.0	42.1
0°-180°	8253.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1843	1843	1843	1843	1843	
5°	1852	1910	1852	1502	1852	176
15°	1768	1892	1768	1580	1768	498
25°	1557	1765	1557	1545	1557	715
35°	1184	1575	1184	1345	1184	733
45°	764	1298	764	1139	764	612
55°	623	958	623	935	623	572
65°	432	577	432	645	432	413
75°	164	274	164	328	164	172
85°	28	70	28	59	28	38
90°	4	14	4	14	4	4
95°	34	158	34	158	34	38
105°	124	1075	124	1075	124	131
115°	220	1384	220	1384	220	217
125°	306	1102	306	1102	306	271
135°	364	855	364	855	364	282
145°	422	694	422	694	422	265
155°	477	597	477	597	477	219
165°	515	556	515	556	515	145
175°	536	539	536	539	536	51
180°	536	536	536	536	536	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1859.1	1859.1	1869.6	1873.0	1873.0	1867.8	1862.6	1867.8	1883.5	1888.7	1887.0
5°	1852.1	1866.1	1885.3	1888.7	1892.2	1890.5	1887.0	1890.5	1907.9	1911.4	1913.2
7.5°	1838.2	1864.3	1888.7	1894.0	1899.2	1894.0	1892.2	1895.7	1913.2	1916.6	1916.6
10°	1820.7	1857.3	1885.3	1888.7	1894.0	1888.7	1888.7	1895.7	1913.2	1916.6	1918.4
12.5°	1796.3	1846.9	1873.0	1876.5	1883.5	1881.8	1880.0	1887.0	1904.4	1907.9	1907.9
15°	1768.4	1827.7	1852.1	1855.6	1867.8	1864.3	1864.3	1871.3	1890.5	1895.7	1894.0
17.5°	1730.0	1803.3	1831.2	1836.4	1845.1	1843.4	1845.1	1852.1	1869.6	1873.0	1874.8
20°	1686.4	1770.1	1803.3	1808.5	1817.2	1817.2	1817.2	1826.0	1843.4	1850.4	1850.4
22.5°	1627.1	1735.3	1770.1	1773.6	1784.1	1784.1	1787.6	1799.8	1815.5	1817.2	1817.2
25°	1557.4	1696.9	1726.5	1737.0	1747.5	1752.7	1757.9	1764.9	1770.1	1768.4	1770.1
27.5°	1484.1	1648.1	1686.4	1693.4	1707.4	1712.6	1719.6	1721.3	1723.1	1728.3	1724.8
30°	1402.1	1580.0	1637.6	1644.6	1667.2	1670.7	1663.8	1667.2	1676.0	1679.5	1682.9
32.5°	1309.7	1478.9	1587.0	1602.7	1623.6	1613.2	1611.4	1616.7	1630.6	1630.6	1634.1
35°	1184.1	1400.4	1539.9	1553.9	1569.6	1557.4	1564.3	1566.1	1574.8	1580.0	1578.3
37.5°	1046.4	1332.4	1491.1	1501.6	1513.8	1498.1	1508.5	1513.8	1520.7	1517.3	1517.3
40°	924.4	1226.0	1433.5	1440.5	1451.0	1438.8	1449.2	1452.7	1456.2	1452.7	1451.0
42.5°	833.7	1109.1	1372.5	1381.2	1374.2	1383.0	1386.4	1393.4	1388.2	1381.2	1381.2
45°	763.9	1077.7	1306.2	1316.7	1306.2	1320.2	1325.4	1325.4	1309.7	1306.2	1304.5
47.5°	741.2	1015.0	1239.9	1239.9	1234.7	1252.2	1260.9	1248.7	1233.0	1227.7	1227.7
50°	739.5	945.3	1149.3	1142.3	1166.7	1187.6	1178.9	1166.7	1154.5	1135.3	1135.3
52.5°	671.5	859.8	1032.5	1058.6	1096.9	1109.1	1095.2	1083.0	1062.1	1053.3	1046.4
55°	622.6	770.9	926.1	978.4	1018.5	1034.2	1008.1	995.9	964.5	959.2	955.7
57.5°	612.2	641.8	828.4	894.7	943.5	941.8	926.1	903.4	877.3	872.0	870.3
60°	561.6	463.9	723.8	802.3	852.8	847.6	833.7	812.7	788.3	784.8	781.3
62.5°	509.3	336.6	605.2	694.1	765.6	763.9	751.7	720.3	702.9	694.1	687.2
65°	432.5	282.5	430.8	577.3	680.2	683.7	657.5	634.8	615.7	605.2	603.4
67.5°	329.6	230.2	291.3	481.4	598.2	594.7	561.6	551.1	526.7	521.5	511.0
70°	244.2	153.5	202.3	390.7	518.0	509.3	483.1	470.9	448.2	436.0	429.0
72.5°	202.3	123.8	148.2	303.5	436.0	425.6	402.9	388.9	369.7	359.3	352.3
75°	163.9	130.8	113.4	225.0	354.0	347.1	326.1	312.2	296.5	282.5	284.3
77.5°	120.3	122.1	90.7	165.7	280.8	270.3	258.1	240.7	233.7	219.8	219.8
80°	90.7	95.9	68.0	113.4	202.3	202.3	191.8	179.6	167.4	160.5	160.5
82.5°	61.0	61.0	50.6	71.5	137.8	132.5	125.6	122.1	115.1	111.6	111.6
85°	27.9	34.9	31.4	43.6	75.0	78.5	78.5	75.0	73.3	69.8	71.5
87.5°	8.7	15.7	19.2	24.4	38.4	40.1	41.9	41.9	41.9	43.6	43.6
90°	3.6	6.5	9.3	10.0	15.8	23.5	27.3	24.2	18.2	13.7	13.7
92.5°	14.4	38.8	63.3	69.4	97.6	135.1	153.8	134.8	96.8	68.3	65.6
95°	34.5	79.3	124.0	135.2	240.0	379.8	449.7	401.3	304.5	231.9	223.7
97.5°	59.6	99.1	138.6	148.4	323.3	556.4	672.9	642.3	581.1	535.3	519.6
100°	79.1	114.8	150.6	159.6	353.6	612.3	741.6	743.8	748.3	751.6	732.9
102.5°	95.7	129.1	162.4	170.7	367.5	629.9	761.0	800.0	878.0	936.4	920.4
105°	123.7	151.9	180.2	187.3	377.9	631.9	758.8	846.2	1021.1	1152.1	1143.5
107.5°	152.4	178.8	205.1	211.7	379.7	603.7	715.7	837.6	1081.4	1264.3	1266.4
110°	171.8	195.6	219.5	225.4	376.9	578.8	679.8	816.0	1088.6	1293.0	1301.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	190.9	213.6	236.2	241.9	377.0	557.1	647.0	786.5	1065.5	1274.7	1288.4
115°	219.7	240.6	261.5	266.8	380.5	532.1	607.9	742.3	1010.9	1212.5	1231.5
117.5°	248.0	267.0	286.0	290.8	387.5	516.4	580.9	702.2	944.7	1126.6	1147.7
120°	264.6	282.5	300.4	304.9	393.3	511.2	570.1	680.9	902.5	1068.7	1089.2
122.5°	280.7	298.8	316.8	321.3	401.5	508.4	561.9	661.6	861.2	1010.9	1031.1
125°	305.6	322.0	338.4	342.5	412.6	506.1	552.9	637.6	807.2	934.3	953.0
127.5°	325.7	342.3	358.8	363.0	423.8	504.8	545.3	618.1	763.6	872.8	888.5
130°	336.4	354.3	372.3	376.7	431.9	505.6	542.4	607.2	736.8	833.9	848.5
132.5°	347.6	365.5	383.4	387.9	438.5	506.1	540.0	598.0	713.9	800.9	813.9
135°	364.2	380.5	396.7	400.8	445.7	505.6	535.6	584.2	681.3	754.1	765.4
137.5°	381.1	397.2	413.3	417.4	456.5	508.7	534.9	576.0	658.1	719.7	728.8
140°	395.0	409.9	424.8	428.5	463.1	509.3	532.4	567.9	638.8	692.0	700.5
142.5°	405.8	419.5	433.3	436.7	468.6	511.1	532.4	563.5	625.9	672.6	680.0
145°	422.4	434.4	446.4	449.4	475.9	511.2	528.8	554.3	605.3	643.5	649.1
147.5°	438.9	450.6	462.3	465.1	486.3	514.7	528.8	548.9	588.9	619.0	623.6
150°	449.7	460.3	470.8	473.4	491.9	516.5	528.8	545.7	579.6	605.0	608.8
152.5°	460.9	468.9	476.8	478.8	495.5	517.7	528.8	543.3	572.1	593.9	596.7
155°	477.4	483.3	489.2	490.7	503.4	520.3	528.8	540.3	563.2	580.5	582.4
157.5°	489.6	495.3	501.1	502.6	511.3	523.0	528.8	537.7	555.6	569.0	570.3
160°	497.8	502.4	506.8	508.0	514.9	524.2	528.8	536.5	551.7	563.2	564.0
162.5°	506.1	509.5	512.8	513.7	518.8	525.5	528.8	535.3	548.2	557.9	558.6
165°	515.1	518.2	521.1	521.9	524.2	527.2	528.8	533.4	542.7	549.6	550.4
167.5°	523.4	524.8	526.3	526.6	528.5	531.1	532.4	535.4	541.5	546.1	546.4
170°	528.8	530.2	531.7	532.0	532.1	532.3	532.4	535.4	541.5	546.1	546.1
172.5°	531.7	532.0	532.3	532.4	532.4	532.4	532.4	534.8	539.6	543.2	542.9
175°	535.6	535.6	535.6	535.6	534.6	533.1	532.4	533.9	536.9	539.2	539.2
177.5°	535.6	535.6	535.6	535.6	534.7	533.6	533.1	534.3	536.6	538.5	538.1
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1890.5	1885.3	1890.5	1887.0	1888.7	1883.5	1867.8	1862.6	1867.8	1873.0	1873.0
5°	1913.2	1909.7	1913.2	1913.2	1911.4	1907.9	1890.5	1887.0	1890.5	1892.2	1888.7
7.5°	1920.1	1914.9	1920.1	1916.6	1916.6	1913.2	1895.7	1892.2	1894.0	1899.2	1894.0
10°	1920.1	1914.9	1920.1	1918.4	1916.6	1913.2	1895.7	1888.7	1888.7	1894.0	1888.7
12.5°	1911.4	1907.9	1911.4	1907.9	1907.9	1904.4	1887.0	1880.0	1881.8	1883.5	1876.5
15°	1897.5	1892.2	1897.5	1894.0	1895.7	1890.5	1871.3	1864.3	1864.3	1867.8	1855.6
17.5°	1876.5	1869.6	1876.5	1874.8	1873.0	1869.6	1852.1	1845.1	1843.4	1845.1	1836.4
20°	1852.1	1846.9	1852.1	1850.4	1850.4	1843.4	1826.0	1817.2	1817.2	1817.2	1808.5
22.5°	1813.7	1808.5	1813.7	1817.2	1817.2	1815.5	1799.8	1787.6	1784.1	1784.1	1773.6
25°	1770.1	1764.9	1770.1	1770.1	1768.4	1770.1	1764.9	1757.9	1752.7	1747.5	1737.0
27.5°	1728.3	1724.8	1728.3	1724.8	1728.3	1723.1	1721.3	1719.6	1712.6	1707.4	1693.4
30°	1686.4	1682.9	1686.4	1682.9	1679.5	1676.0	1667.2	1663.8	1670.7	1667.2	1644.6
32.5°	1634.1	1630.6	1634.1	1634.1	1630.6	1630.6	1616.7	1611.4	1613.2	1623.6	1602.7
35°	1580.0	1574.8	1580.0	1578.3	1580.0	1574.8	1566.1	1564.3	1557.4	1569.6	1553.9
37.5°	1517.3	1512.0	1517.3	1517.3	1517.3	1520.7	1513.8	1508.5	1498.1	1513.8	1501.6
40°	1452.7	1445.7	1452.7	1451.0	1452.7	1456.2	1452.7	1449.2	1438.8	1451.0	1440.5
42.5°	1379.5	1377.7	1379.5	1381.2	1381.2	1388.2	1393.4	1386.4	1383.0	1374.2	1381.2
45°	1301.0	1297.5	1301.0	1304.5	1306.2	1309.7	1325.4	1325.4	1320.2	1306.2	1316.7
47.5°	1217.3	1208.6	1217.3	1227.7	1227.7	1233.0	1248.7	1260.9	1252.2	1234.7	1239.9
50°	1128.3	1130.1	1128.3	1135.3	1135.3	1154.5	1166.7	1178.9	1187.6	1166.7	1142.3
52.5°	1041.1	1039.5	1041.1	1046.4	1053.3	1062.1	1083.0	1095.2	1109.1	1096.9	1058.6
55°	954.0	957.5	954.0	955.7	959.2	964.5	995.9	1008.1	1034.2	1018.5	978.4
57.5°	866.8	861.6	866.8	870.3	872.0	877.3	903.4	926.1	941.8	943.5	894.7
60°	765.6	758.7	765.6	781.3	784.8	788.3	812.7	833.7	847.6	852.8	802.3
62.5°	676.7	664.5	676.7	687.2	694.1	702.9	720.3	751.7	763.9	765.6	694.1
65°	582.5	577.3	582.5	603.4	605.2	615.7	634.8	657.5	683.7	680.2	577.3
67.5°	497.1	497.1	497.1	511.0	521.5	526.7	551.1	561.6	594.7	598.2	481.4
70°	418.6	416.8	418.6	429.0	436.0	448.2	470.9	483.1	509.3	518.0	390.7
72.5°	343.6	341.8	343.6	352.3	359.3	369.7	388.9	402.9	425.6	436.0	303.5
75°	277.3	273.8	277.3	284.3	282.5	296.5	312.2	326.1	347.1	354.0	225.0
77.5°	212.8	212.8	212.8	219.8	219.8	233.7	240.7	258.1	270.3	280.8	165.7
80°	158.7	157.0	158.7	160.5	160.5	167.4	179.6	191.8	202.3	202.3	113.4
82.5°	111.6	108.1	111.6	111.6	111.6	115.1	122.1	125.6	132.5	137.8	71.5
85°	69.8	69.8	69.8	71.5	69.8	73.3	75.0	78.5	78.5	75.0	43.6
87.5°	45.3	43.6	45.3	43.6	43.6	41.9	41.9	41.9	40.1	38.4	24.4
90°	13.7	13.7	13.7	13.7	13.7	18.2	24.2	27.3	23.5	15.8	10.0
92.5°	54.7	43.9	54.7	65.6	68.3	96.8	134.8	153.8	135.1	97.6	69.4
95°	190.7	157.8	190.7	223.7	231.9	304.5	401.3	449.7	379.8	240.0	135.2
97.5°	456.9	394.3	456.9	519.6	535.3	581.1	642.3	672.9	556.4	323.3	148.4
100°	658.4	583.7	658.4	732.9	751.6	748.3	743.8	741.6	612.3	353.6	159.6
102.5°	856.5	792.6	856.5	920.4	936.4	878.0	800.0	761.0	629.9	367.5	170.7
105°	1109.1	1074.8	1109.1	1143.5	1152.1	1021.1	846.2	758.8	631.9	377.9	187.3
107.5°	1274.7	1282.9	1274.7	1266.4	1264.3	1081.4	837.6	715.7	603.7	379.7	211.7
110°	1337.7	1373.5	1337.7	1301.9	1293.0	1088.6	816.0	679.8	578.8	376.9	225.4



TEST NUMBER: P934344

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1343.4	1398.3	1343.4	1288.4	1274.7	1065.5	786.5	647.0	557.1	377.0	241.9
115°	1307.7	1383.9	1307.7	1231.5	1212.5	1010.9	742.3	607.9	532.1	380.5	266.8
117.5°	1232.3	1316.8	1232.3	1147.7	1126.6	944.7	702.2	580.9	516.4	387.5	290.8
120°	1171.3	1253.5	1171.3	1089.2	1068.7	902.5	680.9	570.1	511.2	393.3	304.9
122.5°	1112.1	1193.1	1112.1	1031.1	1010.9	861.2	661.6	561.9	508.4	401.5	321.3
125°	1027.5	1102.2	1027.5	953.0	934.3	807.2	637.6	552.9	506.1	412.6	342.5
127.5°	951.5	1014.4	951.5	888.5	872.8	763.6	618.1	545.3	504.8	423.8	363.0
130°	906.7	964.8	906.7	848.5	833.9	736.8	607.2	542.4	505.6	431.9	376.7
132.5°	866.0	918.1	866.0	813.9	800.9	713.9	598.0	540.0	506.1	438.5	387.9
135°	810.3	855.2	810.3	765.4	754.1	681.3	584.2	535.6	505.6	445.7	400.8
137.5°	765.6	802.4	765.6	728.8	719.7	658.1	576.0	534.9	508.7	456.5	417.4
140°	734.9	769.2	734.9	700.5	692.0	638.8	567.9	532.4	509.3	463.1	428.5
142.5°	709.5	739.0	709.5	680.0	672.6	625.9	563.5	532.4	511.1	468.6	436.7
145°	671.5	693.8	671.5	649.1	643.5	605.3	554.3	528.8	511.2	475.9	449.4
147.5°	642.2	660.7	642.2	623.6	619.0	588.9	548.9	528.8	514.7	486.3	465.1
150°	623.8	638.8	623.8	608.8	605.0	579.6	545.7	528.8	516.5	491.9	473.4
152.5°	608.1	619.4	608.1	596.7	593.9	572.1	543.3	528.8	517.7	495.5	478.8
155°	589.9	597.4	589.9	582.4	580.5	563.2	540.3	528.8	520.3	503.4	490.7
157.5°	575.6	580.9	575.6	570.3	569.0	555.6	537.7	528.8	523.0	511.3	502.6
160°	567.1	570.1	567.1	564.0	563.2	551.7	536.5	528.8	524.2	514.9	508.0
162.5°	561.5	564.4	561.5	558.6	557.9	548.2	535.3	528.8	525.5	518.8	513.7
165°	553.4	556.4	553.4	550.4	549.6	542.7	533.4	528.8	527.2	524.2	521.9
167.5°	547.6	548.9	547.6	546.4	546.1	541.5	535.4	532.4	531.1	528.5	526.6
170°	546.1	546.1	546.1	546.1	546.1	541.5	535.4	532.4	532.3	532.1	532.0
172.5°	541.8	540.7	541.8	542.9	543.2	539.6	534.8	532.4	532.4	532.4	532.4
175°	539.2	539.2	539.2	539.2	539.2	536.9	533.9	532.4	533.1	534.6	535.6
177.5°	536.9	535.6	536.9	538.1	538.5	536.6	534.3	533.1	533.6	534.7	535.6
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



TEST NUMBER: P934344

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1869.6	1859.1	1859.1	1841.6	1834.7	1829.4	1820.7	1794.6	1787.6	1780.6	1791.1
5°	1885.3	1866.1	1852.1	1820.7	1794.6	1784.1	1751.0	1688.2	1646.3	1614.9	1597.5
7.5°	1888.7	1864.3	1838.2	1789.3	1726.5	1698.6	1597.5	1482.4	1451.0	1423.1	1405.6
10°	1885.3	1857.3	1820.7	1747.5	1599.2	1550.4	1449.2	1374.2	1355.1	1349.8	1355.1
12.5°	1873.0	1846.9	1796.3	1674.2	1466.7	1433.5	1374.2	1330.6	1327.1	1335.9	1383.0
15°	1852.1	1827.7	1768.4	1576.6	1393.4	1369.0	1327.1	1311.5	1330.6	1391.7	1532.9
17.5°	1831.2	1803.3	1730.0	1480.6	1337.6	1320.2	1290.5	1321.9	1430.0	1512.0	1559.1
20°	1803.3	1770.1	1686.4	1410.9	1297.5	1281.8	1267.9	1409.1	1491.1	1520.7	1546.9
22.5°	1770.1	1735.3	1627.1	1362.0	1255.6	1243.4	1252.2	1458.0	1491.1	1512.0	1534.7
25°	1726.5	1696.9	1557.4	1323.7	1222.5	1208.6	1241.7	1452.7	1471.9	1477.1	1522.5
27.5°	1686.4	1648.1	1484.1	1288.8	1182.4	1177.2	1250.4	1430.0	1444.0	1449.2	1498.1
30°	1637.6	1580.0	1402.1	1252.2	1140.5	1138.8	1252.2	1402.1	1398.7	1412.6	1461.4
32.5°	1587.0	1478.9	1309.7	1206.8	1100.4	1098.7	1239.9	1360.3	1356.8	1376.0	1412.6
35°	1539.9	1400.4	1184.1	1154.5	1049.8	1051.6	1210.3	1311.5	1313.2	1330.6	1353.3
37.5°	1491.1	1332.4	1046.4	1096.9	1001.1	1001.1	1170.2	1266.1	1262.6	1267.9	1299.2
40°	1433.5	1226.0	924.4	1022.0	955.7	950.5	1121.3	1217.3	1205.1	1203.3	1246.9
42.5°	1372.5	1109.1	833.7	922.6	903.4	896.5	1062.1	1158.0	1135.3	1140.5	1196.3
45°	1306.2	1077.7	763.9	779.6	849.4	844.1	997.6	1090.0	1074.3	1088.2	1145.8
47.5°	1239.9	1015.0	741.2	647.0	791.8	790.1	926.1	1023.8	1015.0	1029.0	1090.0
50°	1149.3	945.3	739.5	554.6	727.3	734.3	840.6	959.2	959.2	971.4	1036.0
52.5°	1032.5	859.8	671.5	502.3	652.3	673.2	765.6	903.4	906.9	919.1	976.7
55°	926.1	770.9	622.6	462.2	563.3	608.7	692.4	845.9	852.8	865.1	917.4
57.5°	828.4	641.8	612.2	415.1	481.4	525.0	627.9	790.1	793.6	804.0	854.6
60°	723.8	463.9	561.6	364.5	409.9	443.0	568.6	723.8	736.0	743.0	786.6
62.5°	605.2	336.6	509.3	329.6	375.0	382.0	519.7	661.0	676.7	681.9	708.1
65°	430.8	282.5	432.5	300.0	338.3	340.1	467.4	596.5	610.4	619.1	638.3
67.5°	291.3	230.2	329.6	272.1	310.4	312.2	416.8	521.5	540.7	547.6	559.8
70°	202.3	153.5	244.2	242.4	279.1	282.5	362.8	453.5	470.9	476.1	483.1
72.5°	148.2	123.8	202.3	218.0	245.9	249.4	307.0	376.7	394.2	399.4	402.9
75°	113.4	130.8	163.9	190.1	209.3	211.0	251.1	307.0	319.2	322.7	324.4
77.5°	90.7	122.1	120.3	153.5	170.9	167.4	197.1	237.2	247.7	247.7	247.7
80°	68.0	95.9	90.7	109.9	125.6	122.1	141.3	169.2	172.7	176.2	174.4
82.5°	50.6	61.0	61.0	69.8	83.7	80.2	94.2	109.9	109.9	109.9	113.4
85°	31.4	34.9	27.9	36.6	47.1	45.3	52.3	59.3	61.0	61.0	57.6
87.5°	19.2	15.7	8.7	14.0	20.9	20.9	24.4	26.2	24.4	24.4	24.4
90°	9.3	6.5	3.6	6.5	9.3	10.0	15.8	23.5	27.3	24.2	18.2
92.5°	63.3	38.8	14.4	38.8	63.3	69.4	97.6	135.1	153.8	134.8	96.8
95°	124.0	79.3	34.5	79.3	124.0	135.2	240.0	379.8	449.7	401.3	304.5
97.5°	138.6	99.1	59.6	99.1	138.6	148.4	323.3	556.4	672.9	642.3	581.1
100°	150.6	114.8	79.1	114.8	150.6	159.6	353.6	612.3	741.6	743.8	748.3
102.5°	162.4	129.1	95.7	129.1	162.4	170.7	367.5	629.9	761.0	800.0	878.0
105°	180.2	151.9	123.7	151.9	180.2	187.3	377.9	631.9	758.8	846.2	1021.1
107.5°	205.1	178.8	152.4	178.8	205.1	211.7	379.7	603.7	715.7	837.6	1081.4
110°	219.5	195.6	171.8	195.6	219.5	225.4	376.9	578.8	679.8	816.0	1088.6



TEST NUMBER: P934344

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	236.2	213.6	190.9	213.6	236.2	241.9	377.0	557.1	647.0	786.5	1065.5
115°	261.5	240.6	219.7	240.6	261.5	266.8	380.5	532.1	607.9	742.3	1010.9
117.5°	286.0	267.0	248.0	267.0	286.0	290.8	387.5	516.4	580.9	702.2	944.7
120°	300.4	282.5	264.6	282.5	300.4	304.9	393.3	511.2	570.1	680.9	902.5
122.5°	316.8	298.8	280.7	298.8	316.8	321.3	401.5	508.4	561.9	661.6	861.2
125°	338.4	322.0	305.6	322.0	338.4	342.5	412.6	506.1	552.9	637.6	807.2
127.5°	358.8	342.3	325.7	342.3	358.8	363.0	423.8	504.8	545.3	618.1	763.6
130°	372.3	354.3	336.4	354.3	372.3	376.7	431.9	505.6	542.4	607.2	736.8
132.5°	383.4	365.5	347.6	365.5	383.4	387.9	438.5	506.1	540.0	598.0	713.9
135°	396.7	380.5	364.2	380.5	396.7	400.8	445.7	505.6	535.6	584.2	681.3
137.5°	413.3	397.2	381.1	397.2	413.3	417.4	456.5	508.7	534.9	576.0	658.1
140°	424.8	409.9	395.0	409.9	424.8	428.5	463.1	509.3	532.4	567.9	638.8
142.5°	433.3	419.5	405.8	419.5	433.3	436.7	468.6	511.1	532.4	563.5	625.9
145°	446.4	434.4	422.4	434.4	446.4	449.4	475.9	511.2	528.8	554.3	605.3
147.5°	462.3	450.6	438.9	450.6	462.3	465.1	486.3	514.7	528.8	548.9	588.9
150°	470.8	460.3	449.7	460.3	470.8	473.4	491.9	516.5	528.8	545.7	579.6
152.5°	476.8	468.9	460.9	468.9	476.8	478.8	495.5	517.7	528.8	543.3	572.1
155°	489.2	483.3	477.4	483.3	489.2	490.7	503.4	520.3	528.8	540.3	563.2
157.5°	501.1	495.3	489.6	495.3	501.1	502.6	511.3	523.0	528.8	537.7	555.6
160°	506.8	502.4	497.8	502.4	506.8	508.0	514.9	524.2	528.8	536.5	551.7
162.5°	512.8	509.5	506.1	509.5	512.8	513.7	518.8	525.5	528.8	535.3	548.2
165°	521.1	518.2	515.1	518.2	521.1	521.9	524.2	527.2	528.8	533.4	542.7
167.5°	526.3	524.8	523.4	524.8	526.3	526.6	528.5	531.1	532.4	535.4	541.5
170°	531.7	530.2	528.8	530.2	531.7	532.0	532.1	532.3	532.4	535.4	541.5
172.5°	532.3	532.0	531.7	532.0	532.3	532.4	532.4	532.4	532.4	534.8	539.6
175°	535.6	535.6	535.6	535.6	535.6	535.6	534.6	533.1	532.4	533.9	536.9
177.5°	535.6	535.6	535.6	535.6	535.6	535.6	534.7	533.6	533.1	534.3	536.6
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



TEST NUMBER: P934344

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1778.9	1773.6	1780.6	1761.4	1780.6	1773.6	1778.9	1791.1	1780.6	1787.6	1794.6
5°	1560.9	1552.1	1524.2	1501.6	1524.2	1552.1	1560.9	1597.5	1614.9	1646.3	1688.2
7.5°	1395.2	1388.2	1381.2	1367.3	1381.2	1388.2	1395.2	1405.6	1423.1	1451.0	1482.4
10°	1358.5	1360.3	1370.8	1369.0	1370.8	1360.3	1358.5	1355.1	1349.8	1355.1	1374.2
12.5°	1452.7	1468.4	1526.0	1522.5	1526.0	1468.4	1452.7	1383.0	1335.9	1327.1	1330.6
15°	1560.9	1566.1	1578.3	1580.0	1578.3	1566.1	1560.9	1532.9	1391.7	1330.6	1311.5
17.5°	1571.3	1573.1	1581.8	1581.8	1581.8	1573.1	1571.3	1559.1	1512.0	1430.0	1321.9
20°	1562.6	1566.1	1583.5	1587.0	1583.5	1566.1	1562.6	1546.9	1520.7	1491.1	1409.1
22.5°	1559.1	1566.1	1580.0	1578.3	1580.0	1566.1	1559.1	1534.7	1512.0	1491.1	1458.0
25°	1541.7	1541.7	1543.4	1545.2	1543.4	1541.7	1541.7	1522.5	1477.1	1471.9	1452.7
27.5°	1505.0	1508.5	1519.0	1517.3	1519.0	1508.5	1505.0	1498.1	1449.2	1444.0	1430.0
30°	1471.9	1468.4	1459.7	1452.7	1459.7	1468.4	1471.9	1461.4	1412.6	1398.7	1402.1
32.5°	1416.1	1407.4	1398.7	1393.4	1398.7	1407.4	1416.1	1412.6	1376.0	1356.8	1360.3
35°	1349.8	1351.6	1349.8	1344.6	1349.8	1351.6	1349.8	1353.3	1330.6	1313.2	1311.5
37.5°	1302.7	1306.2	1304.5	1297.5	1304.5	1306.2	1302.7	1299.2	1267.9	1262.6	1266.1
40°	1253.9	1255.6	1253.9	1248.7	1253.9	1255.6	1253.9	1246.9	1203.3	1205.1	1217.3
42.5°	1206.8	1205.1	1199.8	1196.3	1199.8	1205.1	1206.8	1196.3	1140.5	1135.3	1158.0
45°	1152.7	1154.5	1144.0	1138.8	1144.0	1154.5	1152.7	1145.8	1088.2	1074.3	1090.0
47.5°	1098.7	1098.7	1090.0	1084.7	1090.0	1098.7	1098.7	1090.0	1029.0	1015.0	1023.8
50°	1041.1	1039.5	1027.3	1025.5	1027.3	1039.5	1041.1	1036.0	971.4	959.2	959.2
52.5°	974.9	974.9	976.7	980.2	976.7	974.9	974.9	976.7	919.1	906.9	903.4
55°	917.4	919.1	931.3	934.8	931.3	919.1	917.4	917.4	865.1	852.8	845.9
57.5°	858.1	858.1	866.8	866.8	866.8	858.1	858.1	854.6	804.0	793.6	790.1
60°	790.1	793.6	800.5	798.8	800.5	793.6	790.1	786.6	743.0	736.0	723.8
62.5°	718.6	722.0	723.8	720.3	723.8	722.0	718.6	708.1	681.9	676.7	661.0
65°	643.6	647.0	648.8	645.3	648.8	647.0	643.6	638.3	619.1	610.4	596.5
67.5°	566.8	565.1	563.3	570.3	563.3	565.1	566.8	559.8	547.6	540.7	521.5
70°	488.3	488.3	486.6	490.1	486.6	488.3	488.3	483.1	476.1	470.9	453.5
72.5°	404.6	402.9	409.9	404.6	409.9	402.9	404.6	402.9	399.4	394.2	376.7
75°	322.7	326.1	322.7	327.9	322.7	326.1	322.7	324.4	322.7	319.2	307.0
77.5°	245.9	249.4	245.9	245.9	245.9	249.4	245.9	247.7	247.7	247.7	237.2
80°	174.4	172.7	172.7	170.9	172.7	172.7	174.4	174.4	176.2	172.7	169.2
82.5°	111.6	109.9	109.9	113.4	109.9	109.9	111.6	113.4	109.9	109.9	109.9
85°	61.0	62.8	59.3	59.3	59.3	62.8	61.0	57.6	61.0	61.0	59.3
87.5°	22.7	20.9	20.9	20.9	20.9	20.9	22.7	24.4	24.4	24.4	26.2
90°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	18.2	24.2	27.3	23.5
92.5°	68.3	65.6	54.7	43.9	54.7	65.6	68.3	96.8	134.8	153.8	135.1
95°	231.9	223.7	190.7	157.8	190.7	223.7	231.9	304.5	401.3	449.7	379.8
97.5°	535.3	519.6	456.9	394.3	456.9	519.6	535.3	581.1	642.3	672.9	556.4
100°	751.6	732.9	658.4	583.7	658.4	732.9	751.6	748.3	743.8	741.6	612.3
102.5°	936.4	920.4	856.5	792.6	856.5	920.4	936.4	878.0	800.0	761.0	629.9
105°	1152.1	1143.5	1109.1	1074.8	1109.1	1143.5	1152.1	1021.1	846.2	758.8	631.9
107.5°	1264.3	1266.4	1274.7	1282.9	1274.7	1266.4	1264.3	1081.4	837.6	715.7	603.7
110°	1293.0	1301.9	1337.7	1373.5	1337.7	1301.9	1293.0	1088.6	816.0	679.8	578.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1274.7	1288.4	1343.4	1398.3	1343.4	1288.4	1274.7	1065.5	786.5	647.0	557.1
115°	1212.5	1231.5	1307.7	1383.9	1307.7	1231.5	1212.5	1010.9	742.3	607.9	532.1
117.5°	1126.6	1147.7	1232.3	1316.8	1232.3	1147.7	1126.6	944.7	702.2	580.9	516.4
120°	1068.7	1089.2	1171.3	1253.5	1171.3	1089.2	1068.7	902.5	680.9	570.1	511.2
122.5°	1010.9	1031.1	1112.1	1193.1	1112.1	1031.1	1010.9	861.2	661.6	561.9	508.4
125°	934.3	953.0	1027.5	1102.2	1027.5	953.0	934.3	807.2	637.6	552.9	506.1
127.5°	872.8	888.5	951.5	1014.4	951.5	888.5	872.8	763.6	618.1	545.3	504.8
130°	833.9	848.5	906.7	964.8	906.7	848.5	833.9	736.8	607.2	542.4	505.6
132.5°	800.9	813.9	866.0	918.1	866.0	813.9	800.9	713.9	598.0	540.0	506.1
135°	754.1	765.4	810.3	855.2	810.3	765.4	754.1	681.3	584.2	535.6	505.6
137.5°	719.7	728.8	765.6	802.4	765.6	728.8	719.7	658.1	576.0	534.9	508.7
140°	692.0	700.5	734.9	769.2	734.9	700.5	692.0	638.8	567.9	532.4	509.3
142.5°	672.6	680.0	709.5	739.0	709.5	680.0	672.6	625.9	563.5	532.4	511.1
145°	643.5	649.1	671.5	693.8	671.5	649.1	643.5	605.3	554.3	528.8	511.2
147.5°	619.0	623.6	642.2	660.7	642.2	623.6	619.0	588.9	548.9	528.8	514.7
150°	605.0	608.8	623.8	638.8	623.8	608.8	605.0	579.6	545.7	528.8	516.5
152.5°	593.9	596.7	608.1	619.4	608.1	596.7	593.9	572.1	543.3	528.8	517.7
155°	580.5	582.4	589.9	597.4	589.9	582.4	580.5	563.2	540.3	528.8	520.3
157.5°	569.0	570.3	575.6	580.9	575.6	570.3	569.0	555.6	537.7	528.8	523.0
160°	563.2	564.0	567.1	570.1	567.1	564.0	563.2	551.7	536.5	528.8	524.2
162.5°	557.9	558.6	561.5	564.4	561.5	558.6	557.9	548.2	535.3	528.8	525.5
165°	549.6	550.4	553.4	556.4	553.4	550.4	549.6	542.7	533.4	528.8	527.2
167.5°	546.1	546.4	547.6	548.9	547.6	546.4	546.1	541.5	535.4	532.4	531.1
170°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	541.5	535.4	532.4	532.3
172.5°	543.2	542.9	541.8	540.7	541.8	542.9	543.2	539.6	534.8	532.4	532.4
175°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	536.9	533.9	532.4	533.1
177.5°	538.5	538.1	536.9	535.6	536.9	538.1	538.5	536.6	534.3	533.1	533.6
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1820.7	1829.4	1834.7	1841.6	1859.1
5°	1751.0	1784.1	1794.6	1820.7	1852.1
7.5°	1597.5	1698.6	1726.5	1789.3	1838.2
10°	1449.2	1550.4	1599.2	1747.5	1820.7
12.5°	1374.2	1433.5	1466.7	1674.2	1796.3
15°	1327.1	1369.0	1393.4	1576.6	1768.4
17.5°	1290.5	1320.2	1337.6	1480.6	1730.0
20°	1267.9	1281.8	1297.5	1410.9	1686.4
22.5°	1252.2	1243.4	1255.6	1362.0	1627.1
25°	1241.7	1208.6	1222.5	1323.7	1557.4
27.5°	1250.4	1177.2	1182.4	1288.8	1484.1
30°	1252.2	1138.8	1140.5	1252.2	1402.1
32.5°	1239.9	1098.7	1100.4	1206.8	1309.7
35°	1210.3	1051.6	1049.8	1154.5	1184.1
37.5°	1170.2	1001.1	1001.1	1096.9	1046.4
40°	1121.3	950.5	955.7	1022.0	924.4
42.5°	1062.1	896.5	903.4	922.6	833.7
45°	997.6	844.1	849.4	779.6	763.9
47.5°	926.1	790.1	791.8	647.0	741.2
50°	840.6	734.3	727.3	554.6	739.5
52.5°	765.6	673.2	652.3	502.3	671.5
55°	692.4	608.7	563.3	462.2	622.6
57.5°	627.9	525.0	481.4	415.1	612.2
60°	568.6	443.0	409.9	364.5	561.6
62.5°	519.7	382.0	375.0	329.6	509.3
65°	467.4	340.1	338.3	300.0	432.5
67.5°	416.8	312.2	310.4	272.1	329.6
70°	362.8	282.5	279.1	242.4	244.2
72.5°	307.0	249.4	245.9	218.0	202.3
75°	251.1	211.0	209.3	190.1	163.9
77.5°	197.1	167.4	170.9	153.5	120.3
80°	141.3	122.1	125.6	109.9	90.7
82.5°	94.2	80.2	83.7	69.8	61.0
85°	52.3	45.3	47.1	36.6	27.9
87.5°	24.4	20.9	20.9	14.0	8.7
90°	15.8	10.0	9.3	6.5	3.6
92.5°	97.6	69.4	63.3	38.8	14.4
95°	240.0	135.2	124.0	79.3	34.5
97.5°	323.3	148.4	138.6	99.1	59.6
100°	353.6	159.6	150.6	114.8	79.1
102.5°	367.5	170.7	162.4	129.1	95.7
105°	377.9	187.3	180.2	151.9	123.7
107.5°	379.7	211.7	205.1	178.8	152.4
110°	376.9	225.4	219.5	195.6	171.8



TEST NUMBER: P934344

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	377.0	241.9	236.2	213.6	190.9
115°	380.5	266.8	261.5	240.6	219.7
117.5°	387.5	290.8	286.0	267.0	248.0
120°	393.3	304.9	300.4	282.5	264.6
122.5°	401.5	321.3	316.8	298.8	280.7
125°	412.6	342.5	338.4	322.0	305.6
127.5°	423.8	363.0	358.8	342.3	325.7
130°	431.9	376.7	372.3	354.3	336.4
132.5°	438.5	387.9	383.4	365.5	347.6
135°	445.7	400.8	396.7	380.5	364.2
137.5°	456.5	417.4	413.3	397.2	381.1
140°	463.1	428.5	424.8	409.9	395.0
142.5°	468.6	436.7	433.3	419.5	405.8
145°	475.9	449.4	446.4	434.4	422.4
147.5°	486.3	465.1	462.3	450.6	438.9
150°	491.9	473.4	470.8	460.3	449.7
152.5°	495.5	478.8	476.8	468.9	460.9
155°	503.4	490.7	489.2	483.3	477.4
157.5°	511.3	502.6	501.1	495.3	489.6
160°	514.9	508.0	506.8	502.4	497.8
162.5°	518.8	513.7	512.8	509.5	506.1
165°	524.2	521.9	521.1	518.2	515.1
167.5°	528.5	526.6	526.3	524.8	523.4
170°	532.1	532.0	531.7	530.2	528.8
172.5°	532.4	532.4	532.3	532.0	531.7
175°	534.6	535.6	535.6	535.6	535.6
177.5°	534.7	535.6	535.6	535.6	535.6
180°	535.6	535.6	535.6	535.6	535.6



TEST NUMBER: P934344
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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	12.97	13.90	13.85	14.81	15.96	15.80	16.74	16.69	17.65	18.80
	3H	13.45	14.29	14.35	15.21	16.38	17.16	18.00	18.06	18.91	20.09
	4H	13.64	14.44	14.56	15.36	16.55	17.61	18.40	18.52	19.32	20.51
	6H	13.77	14.50	14.69	15.43	16.63	17.90	18.63	18.82	19.56	20.76
	8H	13.77	14.47	14.70	15.41	16.61	17.98	18.67	18.91	19.62	20.82
	12H	13.74	14.41	14.68	15.35	16.57	18.02	18.68	18.96	19.62	20.85
4H	2H	14.01	14.80	14.93	15.73	16.91	16.22	17.02	17.14	17.94	19.13
	3H	15.04	15.71	15.97	16.66	17.86	17.74	18.40	18.67	19.35	20.55
	4H	15.32	15.93	16.26	16.87	18.10	18.27	18.87	19.21	19.82	21.05
	6H	15.45	15.97	16.41	16.94	18.17	18.64	19.16	19.60	20.13	21.36
	8H	15.46	15.95	16.42	16.91	18.15	18.75	19.24	19.71	20.20	21.44
	12H	15.43	15.87	16.41	16.85	18.10	18.81	19.25	19.79	20.23	21.48
8H	4H	15.78	16.27	16.74	17.24	18.48	18.40	18.89	19.36	19.85	21.09
	6H	16.05	16.45	17.03	17.46	18.70	18.84	19.24	19.82	20.25	21.49
	8H	16.09	16.45	17.08	17.44	18.70	19.00	19.35	19.99	20.35	21.61
	12H	16.08	16.39	17.07	17.38	18.69	19.10	19.41	20.09	20.40	21.71
12H	4H	15.79	16.23	16.77	17.22	18.46	18.37	18.81	19.34	19.79	21.04
	6H	16.11	16.47	17.10	17.46	18.72	18.84	19.20	19.83	20.19	21.45
	8H	16.18	16.49	17.18	17.48	18.79	19.01	19.32	20.00	20.31	21.61