

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: P934838

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934838
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-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

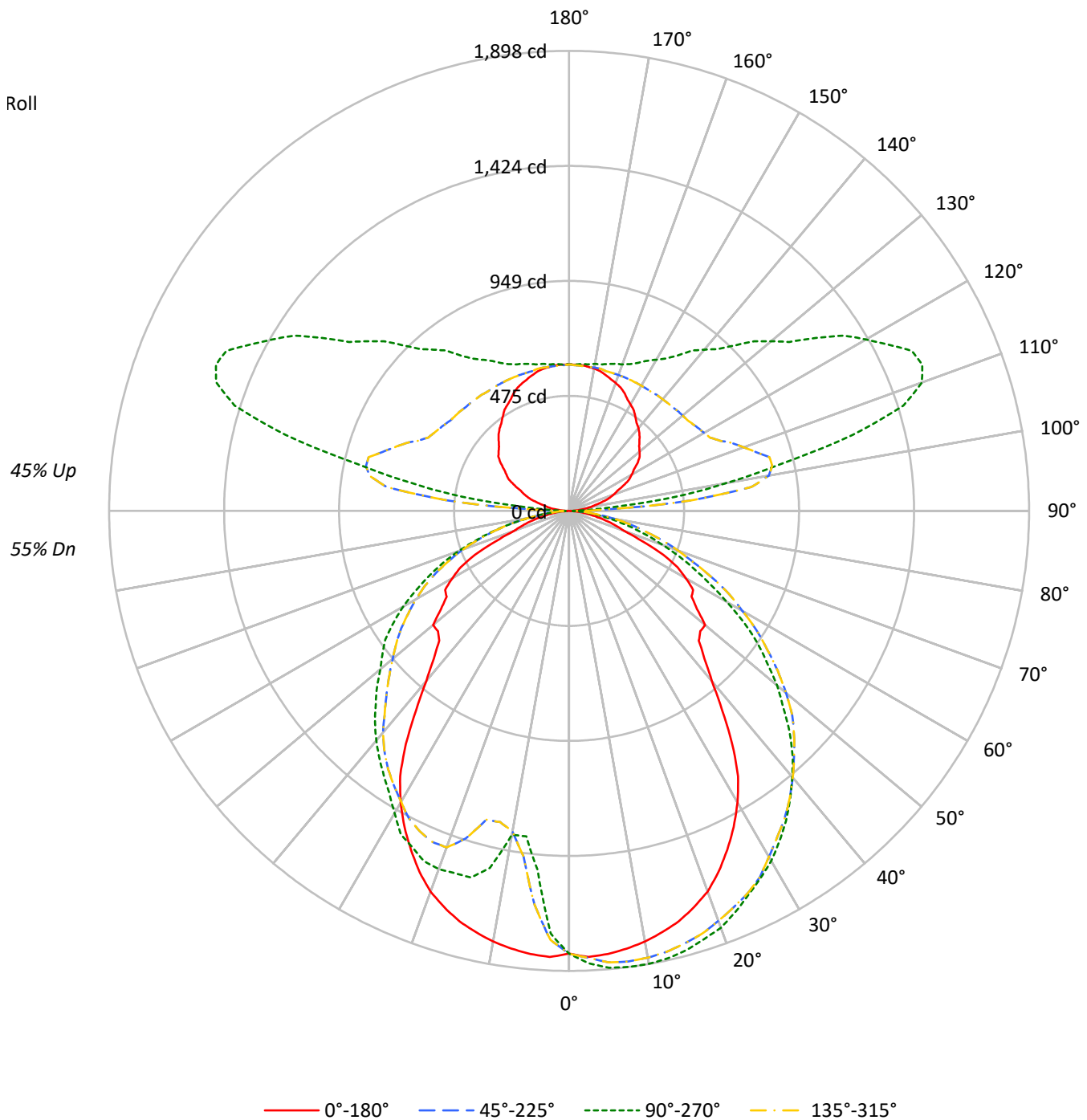
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8654.9 lumens
Efficiency: N/A
Efficacy: 112.7 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°	11300	11300	11300	11300
5°	11380	11406	11380	8969
10°	11300	11236	11300	8033
15°	11173	10993	11173	9179
20°	10935	10704	10935	9198
25°	10452	10284	10452	9003
30°	9830	9934	9830	8575
35°	8759	9492	8759	8105
40°	7294	8973	7294	7749
45°	6513	8364	6513	7341
50°	6914	7638	6914	6931
55°	6500	6856	6500	6694
60°	6691	5823	6691	6131
65°	6057	4813	6057	5381
70°	4184	3836	4184	4509
75°	3657	2835	3657	3396
80°	2923	1875	2923	2041
85°	1646	994	1646	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.9
10°-20°	468.1	5.4
20°-30°	723.7	8.4
30°-40°	863.9	10.0
40°-50°	869.0	10.0
50°-60°	756.1	8.7
60°-70°	536.1	6.2
70°-80°	283.6	3.3
80°-90°	72.9	0.8
90°-100°	294.5	3.4
100°-110°	774.3	8.9
110°-120°	802.8	9.3
120°-130°	644.0	7.4
130°-140°	505.3	5.8
140°-150°	387.8	4.5
150°-160°	279.3	3.2
160°-170°	170.9	2.0
170°-180°	57.7	0.7
0°-30°	1356.7	15.7
0°-40°	2220.6	25.7
0°-60°	3845.7	44.4
0°-90°	4738.3	54.7
90°-120°	1871.6	21.6
90°-150°	3408.7	39.4
90°-180°	3917.0	45.3
0°-180°	8654.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1827	1827	1827	1827	1827	
5°	1835	1892	1835	1488	1835	174
15°	1752	1875	1752	1566	1752	493
25°	1543	1749	1543	1531	1543	709
35°	1173	1560	1173	1332	1173	726
45°	757	1286	757	1128	757	606
55°	617	949	617	926	617	567
65°	429	572	429	639	429	410
75°	162	271	162	325	162	171
85°	28	69	28	59	28	37
90°	4	15	4	15	4	4
95°	39	178	39	178	39	43
105°	140	1212	140	1212	140	148
115°	248	1561	248	1561	248	245
125°	345	1243	345	1243	345	306
135°	411	965	411	965	411	318
145°	476	783	476	783	476	298
155°	538	674	538	674	538	247
165°	581	628	581	628	581	164
175°	604	608	604	608	604	57
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1842.2	1842.2	1852.5	1855.9	1855.9	1850.8	1845.6	1850.8	1866.3	1871.6	1869.8
5°	1835.2	1849.1	1868.1	1871.6	1875.0	1873.2	1869.8	1873.2	1890.5	1894.0	1895.7
7.5°	1821.4	1847.3	1871.6	1876.7	1881.8	1876.7	1875.0	1878.4	1895.7	1899.2	1899.2
10°	1804.2	1840.4	1868.1	1871.6	1876.7	1871.6	1871.6	1878.4	1895.7	1899.2	1900.9
12.5°	1779.9	1830.1	1855.9	1859.4	1866.3	1864.6	1862.8	1869.8	1887.1	1890.5	1890.5
15°	1752.3	1811.0	1835.2	1838.7	1850.8	1847.3	1847.3	1854.2	1873.2	1878.4	1876.7
17.5°	1714.2	1786.8	1814.5	1819.7	1828.3	1826.6	1828.3	1835.2	1852.5	1855.9	1857.7
20°	1671.1	1754.0	1786.8	1792.0	1800.7	1800.7	1800.7	1809.3	1826.6	1833.5	1833.5
22.5°	1612.3	1719.5	1754.0	1757.5	1767.9	1767.9	1771.3	1783.4	1798.9	1800.7	1800.7
25°	1543.2	1681.5	1710.8	1721.1	1731.5	1736.7	1741.9	1748.9	1754.0	1752.3	1754.0
27.5°	1470.6	1633.1	1671.1	1678.0	1691.8	1697.0	1703.9	1705.6	1707.4	1712.5	1709.1
30°	1389.4	1565.6	1622.7	1629.6	1652.1	1655.5	1648.6	1652.1	1660.7	1664.2	1667.6
32.5°	1297.8	1465.5	1572.5	1588.1	1608.8	1598.4	1596.8	1601.9	1615.8	1615.8	1619.2
35°	1173.4	1387.7	1525.9	1539.8	1555.3	1543.2	1550.1	1551.8	1560.4	1565.6	1563.9
37.5°	1036.8	1320.3	1477.5	1487.9	1500.0	1484.5	1494.8	1500.0	1506.9	1503.5	1503.5
40°	915.9	1214.8	1420.5	1427.4	1437.8	1425.7	1436.1	1439.5	1443.0	1439.5	1437.8
42.5°	826.0	1099.0	1360.0	1368.7	1361.8	1370.4	1373.8	1380.8	1375.5	1368.7	1368.7
45°	756.9	1068.0	1294.4	1304.7	1294.4	1308.1	1313.4	1313.4	1297.8	1294.4	1292.6
47.5°	734.4	1005.7	1228.7	1228.7	1223.5	1240.7	1249.4	1237.3	1221.7	1216.6	1216.6
50°	732.7	936.7	1138.8	1131.9	1156.1	1176.8	1168.2	1156.1	1144.0	1125.0	1125.0
52.5°	665.3	852.0	1023.0	1049.0	1087.0	1099.0	1085.2	1073.1	1052.4	1043.7	1036.8
55°	617.0	763.8	917.6	969.4	1009.2	1024.7	998.8	986.7	955.7	950.4	947.0
57.5°	606.6	636.0	820.8	886.5	934.9	933.2	917.6	895.1	869.2	864.0	862.4
60°	556.4	459.6	717.2	794.9	845.0	839.9	826.0	805.3	781.1	777.7	774.2
62.5°	504.6	333.6	599.6	687.8	758.7	756.9	744.8	713.7	696.4	687.8	680.9
65°	428.6	279.9	426.9	572.0	674.0	677.4	651.5	629.0	610.0	599.6	598.0
67.5°	326.6	228.1	288.6	476.9	592.7	589.3	556.4	546.1	521.9	516.7	506.3
70°	241.9	152.1	200.5	387.1	513.3	504.6	478.7	466.6	444.1	432.0	425.1
72.5°	200.5	122.7	146.9	300.7	432.0	421.6	399.2	385.4	366.3	356.0	349.1
75°	162.5	129.6	112.3	222.9	350.8	343.9	323.2	309.3	293.8	279.9	281.7
77.5°	119.2	121.0	89.8	164.2	278.2	267.9	255.8	238.5	231.5	217.7	217.7
80°	89.8	95.1	67.4	112.3	200.5	200.5	190.1	178.0	165.9	159.0	159.0
82.5°	60.5	60.5	50.1	70.8	136.6	131.3	124.4	121.0	114.1	110.6	110.6
85°	27.6	34.5	31.1	43.2	74.3	77.8	77.8	74.3	72.6	69.2	70.8
87.5°	8.6	15.5	19.0	24.2	38.0	39.8	41.5	41.5	41.5	43.2	43.2
90°	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6	15.4	15.4
92.5°	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2	77.0	73.9
95°	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4	261.5	252.3
97.5°	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6	603.8	586.1
100°	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1	847.9	826.9
102.5°	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4	1056.3	1038.2
105°	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7	1299.6	1289.9
107.5°	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9	1426.1	1428.5
110°	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0	1458.6	1468.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8	1437.8	1453.3
115°	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4	1367.7	1389.2
117.5°	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6	1270.8	1294.6
120°	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0	1205.5	1228.7
122.5°	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4	1140.2	1163.0
125°	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5	1053.9	1074.9
127.5°	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4	984.5	1002.3
130°	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1	940.8	957.1
132.5°	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3	903.4	918.1
135°	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5	850.7	863.3
137.5°	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3	811.8	822.2
140°	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6	780.6	790.2
142.5°	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9	758.7	767.0
145°	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7	725.8	732.1
147.5°	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3	698.2	703.5
150°	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8	682.5	686.7
152.5°	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4	669.9	673.1
155°	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5	654.9	657.0
157.5°	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7	641.9	643.4
160°	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4	635.4	636.2
162.5°	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4	629.3	630.1
165°	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2	620.0	620.9
167.5°	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8	615.9	616.3
170°	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8	615.9	615.9
172.5°	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6	612.7	612.3
175°	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6	608.2	608.2
177.5°	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5	607.5	607.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1873.2	1868.1	1873.2	1869.8	1871.6	1866.3	1850.8	1845.6	1850.8	1855.9	1855.9
5°	1895.7	1892.2	1895.7	1895.7	1894.0	1890.5	1873.2	1869.8	1873.2	1875.0	1871.6
7.5°	1902.6	1897.5	1902.6	1899.2	1899.2	1895.7	1878.4	1875.0	1876.7	1881.8	1876.7
10°	1902.6	1897.5	1902.6	1900.9	1899.2	1895.7	1878.4	1871.6	1871.6	1876.7	1871.6
12.5°	1894.0	1890.5	1894.0	1890.5	1890.5	1887.1	1869.8	1862.8	1864.6	1866.3	1859.4
15°	1880.2	1875.0	1880.2	1876.7	1878.4	1873.2	1854.2	1847.3	1847.3	1850.8	1838.7
17.5°	1859.4	1852.5	1859.4	1857.7	1855.9	1852.5	1835.2	1828.3	1826.6	1828.3	1819.7
20°	1835.2	1830.1	1835.2	1833.5	1833.5	1826.6	1809.3	1800.7	1800.7	1800.7	1792.0
22.5°	1797.2	1792.0	1797.2	1800.7	1800.7	1798.9	1783.4	1771.3	1767.9	1767.9	1757.5
25°	1754.0	1748.9	1754.0	1754.0	1752.3	1754.0	1748.9	1741.9	1736.7	1731.5	1721.1
27.5°	1712.5	1709.1	1712.5	1709.1	1712.5	1707.4	1705.6	1703.9	1697.0	1691.8	1678.0
30°	1671.1	1667.6	1671.1	1667.6	1664.2	1660.7	1652.1	1648.6	1655.5	1652.1	1629.6
32.5°	1619.2	1615.8	1619.2	1619.2	1615.8	1615.8	1601.9	1596.8	1598.4	1608.8	1588.1
35°	1565.6	1560.4	1565.6	1563.9	1565.6	1560.4	1551.8	1550.1	1543.2	1555.3	1539.8
37.5°	1503.5	1498.2	1503.5	1503.5	1503.5	1506.9	1500.0	1494.8	1484.5	1500.0	1487.9
40°	1439.5	1432.6	1439.5	1437.8	1439.5	1443.0	1439.5	1436.1	1425.7	1437.8	1427.4
42.5°	1366.9	1365.2	1366.9	1368.7	1368.7	1375.5	1380.8	1373.8	1370.4	1361.8	1368.7
45°	1289.1	1285.7	1289.1	1292.6	1294.4	1297.8	1313.4	1313.4	1308.1	1294.4	1304.7
47.5°	1206.2	1197.6	1206.2	1216.6	1216.6	1221.7	1237.3	1249.4	1240.7	1223.5	1228.7
50°	1118.0	1119.8	1118.0	1125.0	1125.0	1144.0	1156.1	1168.2	1176.8	1156.1	1131.9
52.5°	1031.7	1030.0	1031.7	1036.8	1043.7	1052.4	1073.1	1085.2	1099.0	1087.0	1049.0
55°	945.3	948.7	945.3	947.0	950.4	955.7	986.7	998.8	1024.7	1009.2	969.4
57.5°	858.9	853.6	858.9	862.4	864.0	869.2	895.1	917.6	933.2	934.9	886.5
60°	758.7	751.7	758.7	774.2	777.7	781.1	805.3	826.0	839.9	845.0	794.9
62.5°	670.5	658.4	670.5	680.9	687.8	696.4	713.7	744.8	756.9	758.7	687.8
65°	577.2	572.0	577.2	598.0	599.6	610.0	629.0	651.5	677.4	674.0	572.0
67.5°	492.5	492.5	492.5	506.3	516.7	521.9	546.1	556.4	589.3	592.7	476.9
70°	414.7	413.0	414.7	425.1	432.0	444.1	466.6	478.7	504.6	513.3	387.1
72.5°	340.4	338.7	340.4	349.1	356.0	366.3	385.4	399.2	421.6	432.0	300.7
75°	274.8	271.3	274.8	281.7	279.9	293.8	309.3	323.2	343.9	350.8	222.9
77.5°	210.9	210.9	210.9	217.7	217.7	231.5	238.5	255.8	267.9	278.2	164.2
80°	157.2	155.6	157.2	159.0	159.0	165.9	178.0	190.1	200.5	200.5	112.3
82.5°	110.6	107.2	110.6	110.6	110.6	114.1	121.0	124.4	131.3	136.6	70.8
85°	69.2	69.2	69.2	70.8	69.2	72.6	74.3	77.8	77.8	74.3	43.2
87.5°	44.9	43.2	44.9	43.2	43.2	41.5	41.5	41.5	39.8	38.0	24.2
90°	15.4	15.4	15.4	15.4	15.4	20.6	27.4	30.8	26.4	17.8	11.3
92.5°	61.7	49.4	61.7	73.9	77.0	109.2	152.1	173.5	152.3	110.0	78.2
95°	215.1	178.0	215.1	252.3	261.5	343.4	452.7	507.3	428.4	270.7	152.4
97.5°	515.5	444.8	515.5	586.1	603.8	655.6	724.6	759.1	627.6	364.7	167.4
100°	742.6	658.5	742.6	826.9	847.9	844.1	839.1	836.5	690.7	398.9	180.1
102.5°	966.2	894.1	966.2	1038.2	1056.3	990.4	902.4	858.4	710.4	414.6	192.6
105°	1251.1	1212.4	1251.1	1289.9	1299.6	1151.7	954.5	856.0	712.7	426.2	211.3
107.5°	1437.8	1447.1	1437.8	1428.5	1426.1	1219.9	944.8	807.3	681.0	428.3	238.9
110°	1509.0	1549.3	1509.0	1468.7	1458.6	1228.0	920.5	766.8	652.9	425.0	254.2



TEST NUMBER: P934838

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1515.3	1577.3	1515.3	1453.3	1437.8	1201.8	887.2	729.9	628.3	425.2	272.9
115°	1475.1	1561.1	1475.1	1389.2	1367.7	1140.4	837.2	685.7	600.1	429.1	300.9
117.5°	1389.9	1485.2	1389.9	1294.6	1270.8	1065.6	792.1	655.2	582.5	437.2	328.1
120°	1321.3	1413.9	1321.3	1228.7	1205.5	1018.0	768.1	643.1	576.6	443.6	343.8
122.5°	1254.4	1345.8	1254.4	1163.0	1140.2	971.4	746.3	633.8	573.5	452.9	362.5
125°	1159.1	1243.3	1159.1	1074.9	1053.9	910.5	719.3	623.7	570.9	465.5	386.4
127.5°	1073.3	1144.3	1073.3	1002.3	984.5	861.4	697.2	615.1	569.4	478.0	409.5
130°	1022.7	1088.3	1022.7	957.1	940.8	831.1	685.0	611.9	570.4	487.3	424.9
132.5°	976.9	1035.6	976.9	918.1	903.4	805.3	674.4	609.0	570.9	494.7	437.5
135°	914.0	964.6	914.0	863.3	850.7	768.5	658.9	604.1	570.4	502.8	452.1
137.5°	863.6	905.1	863.6	822.2	811.8	742.3	649.7	603.4	573.9	514.9	470.7
140°	829.0	867.8	829.0	790.2	780.6	720.6	640.5	600.5	574.5	522.4	483.4
142.5°	800.4	833.7	800.4	767.0	758.7	705.9	635.6	600.5	576.5	528.6	492.7
145°	757.4	782.6	757.4	732.1	725.8	682.7	625.2	596.5	576.6	536.7	506.8
147.5°	724.3	745.2	724.3	703.5	698.2	664.3	619.1	596.5	580.5	548.6	524.7
150°	703.6	720.6	703.6	686.7	682.5	653.8	615.6	596.5	582.6	554.9	534.0
152.5°	685.9	698.7	685.9	673.1	669.9	645.4	612.8	596.5	583.9	558.9	540.1
155°	665.4	673.9	665.4	657.0	654.9	635.5	609.5	596.5	586.9	567.8	553.5
157.5°	649.3	655.2	649.3	643.4	641.9	626.7	606.6	596.5	589.9	576.8	566.9
160°	639.6	643.1	639.6	636.2	635.4	622.4	605.1	596.5	591.2	580.8	572.9
162.5°	633.4	636.6	633.4	630.1	629.3	618.4	603.8	596.5	592.7	585.1	579.5
165°	624.3	627.7	624.3	620.9	620.0	612.2	601.7	596.5	594.7	591.3	588.8
167.5°	617.7	619.1	617.7	616.3	615.9	610.8	603.9	600.5	599.1	596.2	594.0
170°	615.9	615.9	615.9	615.9	615.9	610.8	603.9	600.5	600.4	600.2	600.1
172.5°	611.1	609.8	611.1	612.3	612.7	608.6	603.2	600.5	600.5	600.5	600.5
175°	608.2	608.2	608.2	608.2	608.2	605.6	602.2	600.5	601.3	602.9	604.1
177.5°	605.6	604.1	605.6	607.1	607.5	605.5	602.7	601.4	602.0	603.2	604.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P934838

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1852.5	1842.2	1842.2	1824.8	1817.9	1812.8	1804.2	1778.2	1771.3	1764.4	1774.8
5°	1868.1	1849.1	1835.2	1804.2	1778.2	1767.9	1735.0	1672.8	1631.3	1600.2	1582.9
7.5°	1871.6	1847.3	1821.4	1773.0	1710.8	1683.1	1582.9	1468.9	1437.8	1410.1	1392.8
10°	1868.1	1840.4	1804.2	1731.5	1584.7	1536.3	1436.1	1361.8	1342.8	1337.5	1342.8
12.5°	1855.9	1830.1	1779.9	1659.0	1453.3	1420.5	1361.8	1318.5	1315.1	1323.7	1370.4
15°	1835.2	1811.0	1752.3	1562.2	1380.8	1356.5	1315.1	1299.5	1318.5	1379.0	1519.0
17.5°	1814.5	1786.8	1714.2	1467.1	1325.4	1308.1	1278.8	1309.9	1417.1	1498.2	1544.9
20°	1786.8	1754.0	1671.1	1398.0	1285.7	1270.1	1256.3	1396.3	1477.5	1506.9	1532.8
22.5°	1754.0	1719.5	1612.3	1349.6	1244.2	1232.1	1240.7	1444.7	1477.5	1498.2	1520.7
25°	1710.8	1681.5	1543.2	1311.6	1211.4	1197.6	1230.4	1439.5	1458.5	1463.7	1508.6
27.5°	1671.1	1633.1	1470.6	1277.1	1171.7	1166.4	1239.1	1417.1	1430.8	1436.1	1484.5
30°	1622.7	1565.6	1389.4	1240.7	1130.2	1128.4	1240.7	1389.4	1385.9	1399.8	1448.1
32.5°	1572.5	1465.5	1297.8	1195.8	1090.4	1088.7	1228.7	1347.9	1344.4	1363.4	1399.8
35°	1525.9	1387.7	1173.4	1144.0	1040.3	1042.0	1199.3	1299.5	1301.2	1318.5	1341.0
37.5°	1477.5	1320.3	1036.8	1087.0	991.9	991.9	1159.5	1254.6	1251.1	1256.3	1287.4
40°	1420.5	1214.8	915.9	1012.7	947.0	941.8	1111.1	1206.2	1194.1	1192.4	1235.6
42.5°	1360.0	1099.0	826.0	914.2	895.1	888.3	1052.4	1147.4	1125.0	1130.2	1185.4
45°	1294.4	1068.0	756.9	772.4	841.6	836.4	988.5	1080.0	1064.5	1078.4	1135.4
47.5°	1228.7	1005.7	734.4	641.1	784.6	782.8	917.6	1014.3	1005.7	1019.6	1080.0
50°	1138.8	936.7	732.7	549.6	720.6	727.5	833.0	950.4	950.4	962.6	1026.5
52.5°	1023.0	852.0	665.3	497.7	646.3	667.0	758.7	895.1	898.6	910.7	967.7
55°	917.6	763.8	617.0	457.9	558.2	603.1	686.0	838.1	845.0	857.1	909.0
57.5°	820.8	636.0	606.6	411.3	476.9	520.2	622.1	782.8	786.3	796.7	846.7
60°	717.2	459.6	556.4	361.2	406.1	438.9	563.3	717.2	729.3	736.2	779.3
62.5°	599.6	333.6	504.6	326.6	371.6	378.5	514.9	655.0	670.5	675.7	701.6
65°	426.9	279.9	428.6	297.2	335.2	337.0	463.1	591.0	604.8	613.5	632.5
67.5°	288.6	228.1	326.6	269.5	307.6	309.3	413.0	516.7	535.7	542.6	554.7
70°	200.5	152.1	241.9	240.2	276.5	279.9	359.5	449.3	466.6	471.8	478.7
72.5°	146.9	122.7	200.5	216.0	243.6	247.1	304.2	373.2	390.6	395.7	399.2
75°	112.3	129.6	162.5	188.4	207.4	209.1	248.9	304.2	316.2	319.7	321.4
77.5°	89.8	121.0	119.2	152.1	169.3	165.9	195.2	235.0	245.4	245.4	245.4
80°	67.4	95.1	89.8	108.8	124.4	121.0	140.0	167.6	171.1	174.5	172.8
82.5°	50.1	60.5	60.5	69.2	82.9	79.5	93.3	108.8	108.8	108.8	112.3
85°	31.1	34.5	27.6	36.3	46.7	44.9	51.9	58.8	60.5	60.5	57.0
87.5°	19.0	15.5	8.6	13.9	20.8	20.8	24.2	25.9	24.2	24.2	24.2
90°	10.6	7.2	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6
92.5°	71.3	43.8	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2
95°	139.8	89.4	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4
97.5°	156.3	111.8	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6
100°	170.0	129.6	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1
102.5°	183.2	145.5	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4
105°	203.4	171.4	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7
107.5°	231.4	201.7	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9
110°	247.5	220.7	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0



TEST NUMBER: P934838

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	266.5	240.9	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8
115°	294.9	271.4	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4
117.5°	322.7	301.2	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6
120°	338.8	318.6	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0
122.5°	357.4	337.0	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4
125°	381.8	363.2	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5
127.5°	404.8	386.1	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4
130°	419.9	399.7	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1
132.5°	432.4	412.3	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3
135°	447.5	429.1	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5
137.5°	466.2	448.0	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3
140°	479.2	462.4	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6
142.5°	488.9	473.3	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9
145°	503.4	490.0	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7
147.5°	521.4	508.2	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3
150°	531.1	519.1	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8
152.5°	537.9	528.9	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4
155°	551.8	545.1	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5
157.5°	565.3	558.8	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7
160°	571.7	566.6	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4
162.5°	578.5	574.8	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4
165°	587.9	584.5	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2
167.5°	593.6	592.0	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8
170°	599.7	598.1	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8
172.5°	600.4	600.0	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6
175°	604.1	604.1	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6
177.5°	604.1	604.1	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P934838

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1762.6	1757.5	1764.4	1745.4	1764.4	1757.5	1762.6	1774.8	1764.4	1771.3	1778.2
5°	1546.6	1538.0	1510.4	1487.9	1510.4	1538.0	1546.6	1582.9	1600.2	1631.3	1672.8
7.5°	1382.4	1375.5	1368.7	1354.8	1368.7	1375.5	1382.4	1392.8	1410.1	1437.8	1468.9
10°	1346.2	1347.9	1358.3	1356.5	1358.3	1347.9	1346.2	1342.8	1337.5	1342.8	1361.8
12.5°	1439.5	1455.1	1512.1	1508.6	1512.1	1455.1	1439.5	1370.4	1323.7	1315.1	1318.5
15°	1546.6	1551.8	1563.9	1565.6	1563.9	1551.8	1546.6	1519.0	1379.0	1318.5	1299.5
17.5°	1557.0	1558.8	1567.4	1567.4	1567.4	1558.8	1557.0	1544.9	1498.2	1417.1	1309.9
20°	1548.4	1551.8	1569.1	1572.5	1569.1	1551.8	1548.4	1532.8	1506.9	1477.5	1396.3
22.5°	1544.9	1551.8	1565.6	1563.9	1565.6	1551.8	1544.9	1520.7	1498.2	1477.5	1444.7
25°	1527.6	1527.6	1529.4	1531.1	1529.4	1527.6	1527.6	1508.6	1463.7	1458.5	1439.5
27.5°	1491.4	1494.8	1505.1	1503.5	1505.1	1494.8	1491.4	1484.5	1436.1	1430.8	1417.1
30°	1458.5	1455.1	1446.4	1439.5	1446.4	1455.1	1458.5	1448.1	1399.8	1385.9	1389.4
32.5°	1403.2	1394.6	1385.9	1380.8	1385.9	1394.6	1403.2	1399.8	1363.4	1344.4	1347.9
35°	1337.5	1339.3	1337.5	1332.4	1337.5	1339.3	1337.5	1341.0	1318.5	1301.2	1299.5
37.5°	1290.9	1294.4	1292.6	1285.7	1292.6	1294.4	1290.9	1287.4	1256.3	1251.1	1254.6
40°	1242.5	1244.2	1242.5	1237.3	1242.5	1244.2	1242.5	1235.6	1192.4	1194.1	1206.2
42.5°	1195.8	1194.1	1188.9	1185.4	1188.9	1194.1	1195.8	1185.4	1130.2	1125.0	1147.4
45°	1142.3	1144.0	1133.6	1128.4	1133.6	1144.0	1142.3	1135.4	1078.4	1064.5	1080.0
47.5°	1088.7	1088.7	1080.0	1074.9	1080.0	1088.7	1088.7	1080.0	1019.6	1005.7	1014.3
50°	1031.7	1030.0	1017.8	1016.1	1017.8	1030.0	1031.7	1026.5	962.6	950.4	950.4
52.5°	966.0	966.0	967.7	971.2	967.7	966.0	966.0	967.7	910.7	898.6	895.1
55°	909.0	910.7	922.8	926.3	922.8	910.7	909.0	909.0	857.1	845.0	838.1
57.5°	850.2	850.2	858.9	858.9	858.9	850.2	850.2	846.7	796.7	786.3	782.8
60°	782.8	786.3	793.2	791.5	793.2	786.3	782.8	779.3	736.2	729.3	717.2
62.5°	711.9	715.4	717.2	713.7	717.2	715.4	711.9	701.6	675.7	670.5	655.0
65°	637.6	641.1	642.9	639.4	642.9	641.1	637.6	632.5	613.5	604.8	591.0
67.5°	561.6	559.9	558.2	565.1	558.2	559.9	561.6	554.7	542.6	535.7	516.7
70°	483.9	483.9	482.1	485.5	482.1	483.9	483.9	478.7	471.8	466.6	449.3
72.5°	400.9	399.2	406.1	400.9	406.1	399.2	400.9	399.2	395.7	390.6	373.2
75°	319.7	323.2	319.7	324.9	319.7	323.2	319.7	321.4	319.7	316.2	304.2
77.5°	243.6	247.1	243.6	243.6	243.6	247.1	243.6	245.4	245.4	245.4	235.0
80°	172.8	171.1	171.1	169.3	171.1	171.1	172.8	172.8	174.5	171.1	167.6
82.5°	110.6	108.8	108.8	112.3	108.8	108.8	110.6	112.3	108.8	108.8	108.8
85°	60.5	62.2	58.8	58.8	58.8	62.2	60.5	57.0	60.5	60.5	58.8
87.5°	22.5	20.8	20.8	20.8	20.8	20.8	22.5	24.2	24.2	24.2	25.9
90°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	20.6	27.4	30.8	26.4
92.5°	77.0	73.9	61.7	49.4	61.7	73.9	77.0	109.2	152.1	173.5	152.3
95°	261.5	252.3	215.1	178.0	215.1	252.3	261.5	343.4	452.7	507.3	428.4
97.5°	603.8	586.1	515.5	444.8	515.5	586.1	603.8	655.6	724.6	759.1	627.6
100°	847.9	826.9	742.6	658.5	742.6	826.9	847.9	844.1	839.1	836.5	690.7
102.5°	1056.3	1038.2	966.2	894.1	966.2	1038.2	1056.3	990.4	902.4	858.4	710.4
105°	1299.6	1289.9	1251.1	1212.4	1251.1	1289.9	1299.6	1151.7	954.5	856.0	712.7
107.5°	1426.1	1428.5	1437.8	1447.1	1437.8	1428.5	1426.1	1219.9	944.8	807.3	681.0
110°	1458.6	1468.7	1509.0	1549.3	1509.0	1468.7	1458.6	1228.0	920.5	766.8	652.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1437.8	1453.3	1515.3	1577.3	1515.3	1453.3	1437.8	1201.8	887.2	729.9	628.3
115°	1367.7	1389.2	1475.1	1561.1	1475.1	1389.2	1367.7	1140.4	837.2	685.7	600.1
117.5°	1270.8	1294.6	1389.9	1485.2	1389.9	1294.6	1270.8	1065.6	792.1	655.2	582.5
120°	1205.5	1228.7	1321.3	1413.9	1321.3	1228.7	1205.5	1018.0	768.1	643.1	576.6
122.5°	1140.2	1163.0	1254.4	1345.8	1254.4	1163.0	1140.2	971.4	746.3	633.8	573.5
125°	1053.9	1074.9	1159.1	1243.3	1159.1	1074.9	1053.9	910.5	719.3	623.7	570.9
127.5°	984.5	1002.3	1073.3	1144.3	1073.3	1002.3	984.5	861.4	697.2	615.1	569.4
130°	940.8	957.1	1022.7	1088.3	1022.7	957.1	940.8	831.1	685.0	611.9	570.4
132.5°	903.4	918.1	976.9	1035.6	976.9	918.1	903.4	805.3	674.4	609.0	570.9
135°	850.7	863.3	914.0	964.6	914.0	863.3	850.7	768.5	658.9	604.1	570.4
137.5°	811.8	822.2	863.6	905.1	863.6	822.2	811.8	742.3	649.7	603.4	573.9
140°	780.6	790.2	829.0	867.8	829.0	790.2	780.6	720.6	640.5	600.5	574.5
142.5°	758.7	767.0	800.4	833.7	800.4	767.0	758.7	705.9	635.6	600.5	576.5
145°	725.8	732.1	757.4	782.6	757.4	732.1	725.8	682.7	625.2	596.5	576.6
147.5°	698.2	703.5	724.3	745.2	724.3	703.5	698.2	664.3	619.1	596.5	580.5
150°	682.5	686.7	703.6	720.6	703.6	686.7	682.5	653.8	615.6	596.5	582.6
152.5°	669.9	673.1	685.9	698.7	685.9	673.1	669.9	645.4	612.8	596.5	583.9
155°	654.9	657.0	665.4	673.9	665.4	657.0	654.9	635.5	609.5	596.5	586.9
157.5°	641.9	643.4	649.3	655.2	649.3	643.4	641.9	626.7	606.6	596.5	589.9
160°	635.4	636.2	639.6	643.1	639.6	636.2	635.4	622.4	605.1	596.5	591.2
162.5°	629.3	630.1	633.4	636.6	633.4	630.1	629.3	618.4	603.8	596.5	592.7
165°	620.0	620.9	624.3	627.7	624.3	620.9	620.0	612.2	601.7	596.5	594.7
167.5°	615.9	616.3	617.7	619.1	617.7	616.3	615.9	610.8	603.9	600.5	599.1
170°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	610.8	603.9	600.5	600.4
172.5°	612.7	612.3	611.1	609.8	611.1	612.3	612.7	608.6	603.2	600.5	600.5
175°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	605.6	602.2	600.5	601.3
177.5°	607.5	607.1	605.6	604.1	605.6	607.1	607.5	605.5	602.7	601.4	602.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1804.2	1812.8	1817.9	1824.8	1842.2
5°	1735.0	1767.9	1778.2	1804.2	1835.2
7.5°	1582.9	1683.1	1710.8	1773.0	1821.4
10°	1436.1	1536.3	1584.7	1731.5	1804.2
12.5°	1361.8	1420.5	1453.3	1659.0	1779.9
15°	1315.1	1356.5	1380.8	1562.2	1752.3
17.5°	1278.8	1308.1	1325.4	1467.1	1714.2
20°	1256.3	1270.1	1285.7	1398.0	1671.1
22.5°	1240.7	1232.1	1244.2	1349.6	1612.3
25°	1230.4	1197.6	1211.4	1311.6	1543.2
27.5°	1239.1	1166.4	1171.7	1277.1	1470.6
30°	1240.7	1128.4	1130.2	1240.7	1389.4
32.5°	1228.7	1088.7	1090.4	1195.8	1297.8
35°	1199.3	1042.0	1040.3	1144.0	1173.4
37.5°	1159.5	991.9	991.9	1087.0	1036.8
40°	1111.1	941.8	947.0	1012.7	915.9
42.5°	1052.4	888.3	895.1	914.2	826.0
45°	988.5	836.4	841.6	772.4	756.9
47.5°	917.6	782.8	784.6	641.1	734.4
50°	833.0	727.5	720.6	549.6	732.7
52.5°	758.7	667.0	646.3	497.7	665.3
55°	686.0	603.1	558.2	457.9	617.0
57.5°	622.1	520.2	476.9	411.3	606.6
60°	563.3	438.9	406.1	361.2	556.4
62.5°	514.9	378.5	371.6	326.6	504.6
65°	463.1	337.0	335.2	297.2	428.6
67.5°	413.0	309.3	307.6	269.5	326.6
70°	359.5	279.9	276.5	240.2	241.9
72.5°	304.2	247.1	243.6	216.0	200.5
75°	248.9	209.1	207.4	188.4	162.5
77.5°	195.2	165.9	169.3	152.1	119.2
80°	140.0	121.0	124.4	108.8	89.8
82.5°	93.3	79.5	82.9	69.2	60.5
85°	51.9	44.9	46.7	36.3	27.6
87.5°	24.2	20.8	20.8	13.9	8.6
90°	17.8	11.3	10.6	7.2	4.0
92.5°	110.0	78.2	71.3	43.8	16.2
95°	270.7	152.4	139.8	89.4	38.9
97.5°	364.7	167.4	156.3	111.8	67.3
100°	398.9	180.1	170.0	129.6	89.2
102.5°	414.6	192.6	183.2	145.5	107.9
105°	426.2	211.3	203.4	171.4	139.5
107.5°	428.3	238.9	231.4	201.7	172.0
110°	425.0	254.2	247.5	220.7	193.9



TEST NUMBER: P934838

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	425.2	272.9	266.5	240.9	215.3
115°	429.1	300.9	294.9	271.4	247.7
117.5°	437.2	328.1	322.7	301.2	279.7
120°	443.6	343.8	338.8	318.6	298.4
122.5°	452.9	362.5	357.4	337.0	316.7
125°	465.5	386.4	381.8	363.2	344.6
127.5°	478.0	409.5	404.8	386.1	367.4
130°	487.3	424.9	419.9	399.7	379.5
132.5°	494.7	437.5	432.4	412.3	392.1
135°	502.8	452.1	447.5	429.1	410.7
137.5°	514.9	470.7	466.2	448.0	429.8
140°	522.4	483.4	479.2	462.4	445.6
142.5°	528.6	492.7	488.9	473.3	457.8
145°	536.7	506.8	503.4	490.0	476.5
147.5°	548.6	524.7	521.4	508.2	495.1
150°	554.9	534.0	531.1	519.1	507.3
152.5°	558.9	540.1	537.9	528.9	519.8
155°	567.8	553.5	551.8	545.1	538.5
157.5°	576.8	566.9	565.3	558.8	552.3
160°	580.8	572.9	571.7	566.6	561.6
162.5°	585.1	579.5	578.5	574.8	570.9
165°	591.3	588.8	587.9	584.5	581.0
167.5°	596.2	594.0	593.6	592.0	590.4
170°	600.2	600.1	599.7	598.1	596.5
172.5°	600.5	600.5	600.4	600.0	599.7
175°	602.9	604.1	604.1	604.1	604.1
177.5°	603.2	604.1	604.1	604.1	604.1
180°	604.1	604.1	604.1	604.1	604.1



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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	13.65	14.56	14.57	15.49	16.70	16.48	17.39	17.39	18.32	19.52
	3H	14.14	14.95	15.06	15.89	17.12	17.83	18.64	18.75	19.58	20.81
	4H	14.33	15.10	15.27	16.04	17.28	18.27	19.04	19.21	19.99	21.22
	6H	14.45	15.16	15.40	16.11	17.36	18.56	19.26	19.51	20.22	21.47
	8H	14.45	15.13	15.41	16.10	17.34	18.63	19.31	19.59	20.28	21.52
	12H	14.42	15.07	15.39	16.03	17.30	18.67	19.31	19.64	20.28	21.55
4H	2H	14.69	15.46	15.64	16.41	17.64	16.89	17.66	17.84	18.61	19.85
	3H	15.72	16.36	16.68	17.34	18.59	18.40	19.04	19.36	20.02	21.27
	4H	16.00	16.58	16.97	17.56	18.83	18.93	19.52	19.90	20.49	21.76
	6H	16.13	16.63	17.11	17.63	18.90	19.30	19.80	20.28	20.80	22.07
	8H	16.14	16.61	17.12	17.59	18.88	19.40	19.87	20.39	20.86	22.15
	12H	16.10	16.53	17.11	17.53	18.83	19.46	19.89	20.46	20.89	22.19
8H	4H	16.46	16.93	17.44	17.92	19.20	19.06	19.53	20.04	20.52	21.81
	6H	16.72	17.11	17.73	18.14	19.43	19.50	19.89	20.50	20.92	22.20
	8H	16.76	17.11	17.78	18.12	19.43	19.65	19.99	20.66	21.01	22.31
	12H	16.75	17.05	17.77	18.06	19.41	19.75	20.05	20.77	21.06	22.41
12H	4H	16.47	16.89	17.47	17.90	19.19	19.03	19.45	20.03	20.46	21.75
	6H	16.78	17.12	17.80	18.14	19.45	19.49	19.84	20.51	20.86	22.16
	8H	16.85	17.15	17.87	18.16	19.51	19.66	19.96	20.68	20.97	22.32