

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: P933825

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933825
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

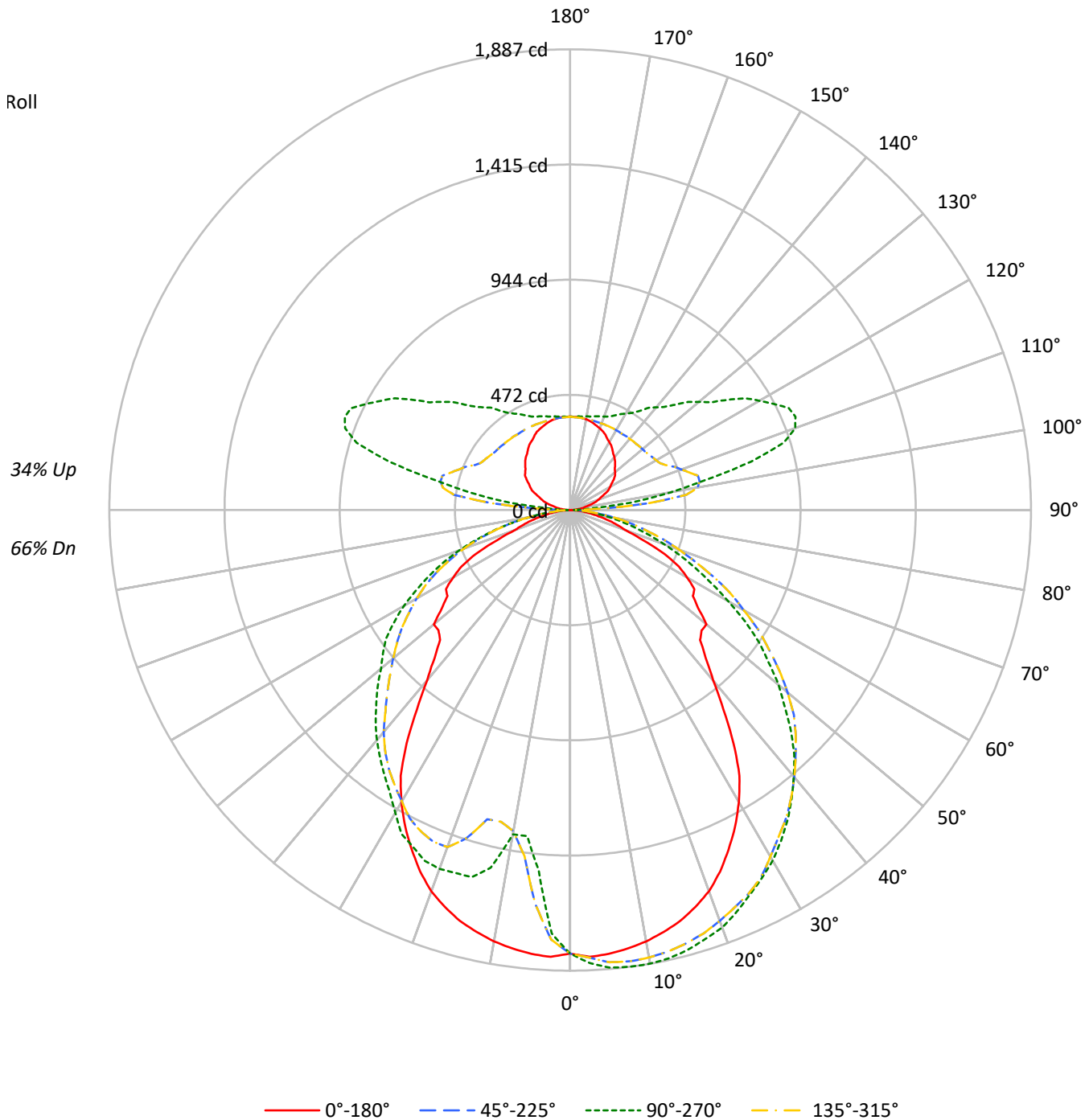
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7190.1 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5618	5618	5618	5618
5°	5662	5671	5662	4459
10°	5627	5587	5627	3994
15°	5567	5466	5567	4564
20°	5453	5322	5453	4573
25°	5217	5113	5217	4477
30°	4911	4939	4911	4264
35°	4380	4720	4380	4030
40°	3652	4461	3652	3853
45°	3265	4159	3265	3650
50°	3472	3798	3472	3446
55°	3269	3409	3269	3328
60°	3375	2895	3375	3048
65°	3065	2393	3065	2675
70°	2127	1908	2127	2243
75°	1872	1410	1872	1688
80°	1519	932	1519	1015
85°	891	494	891	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	2.3
10°-20°	465.5	6.5
20°-30°	719.6	10.0
30°-40°	859.1	11.9
40°-50°	864.1	12.0
50°-60°	751.9	10.5
60°-70°	533.1	7.4
70°-80°	282.0	3.9
80°-90°	71.7	1.0
90°-100°	186.4	2.6
100°-110°	490.0	6.8
110°-120°	508.1	7.1
120°-130°	407.6	5.7
130°-140°	319.8	4.4
140°-150°	245.5	3.4
150°-160°	176.8	2.5
160°-170°	108.2	1.5
170°-180°	36.5	0.5
0°-30°	1349.1	18.8
0°-40°	2208.2	30.7
0°-60°	3824.3	53.2
0°-90°	4711.1	65.5
90°-120°	1184.6	16.5
90°-150°	2157.4	30.0
90°-180°	2479.0	34.5
0°-180°	7190.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1816	1816	1816	1816	1816	
5°	1825	1882	1825	1480	1825	173
15°	1742	1865	1742	1557	1742	490
25°	1535	1739	1535	1523	1535	705
35°	1167	1552	1167	1325	1167	722
45°	753	1278	753	1122	753	603
55°	614	944	614	921	614	564
65°	426	569	426	636	426	407
75°	162	270	162	323	162	170
85°	28	69	28	58	28	37
90°	3	10	3	10	3	3
95°	25	113	25	113	25	27
105°	88	767	88	767	88	94
115°	157	988	157	988	157	155
125°	218	787	218	787	218	194
135°	260	610	260	610	260	201
145°	302	495	302	495	302	189
155°	341	427	341	427	341	157
165°	368	397	368	397	368	104
175°	382	385	382	385	382	36
180°	382	382	382	382	382	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1831.8	1831.8	1842.2	1845.6	1845.6	1840.5	1835.4	1840.5	1855.9	1861.1	1859.4
5°	1825.0	1838.8	1857.6	1861.1	1864.6	1862.9	1859.4	1862.9	1880.0	1883.4	1885.1
7.5°	1811.3	1837.1	1861.1	1866.3	1871.4	1866.3	1864.6	1868.0	1885.1	1888.6	1888.6
10°	1794.1	1830.1	1857.6	1861.1	1866.3	1861.1	1861.1	1868.0	1885.1	1888.6	1890.4
12.5°	1770.0	1819.9	1845.6	1849.1	1855.9	1854.2	1852.5	1859.4	1876.6	1880.0	1880.0
15°	1742.5	1800.9	1825.0	1828.4	1840.5	1837.1	1837.1	1843.9	1862.9	1868.0	1866.3
17.5°	1704.8	1776.9	1804.4	1809.6	1818.2	1816.4	1818.2	1825.0	1842.2	1845.6	1847.4
20°	1661.8	1744.2	1776.9	1782.1	1790.7	1790.7	1790.7	1799.2	1816.4	1823.3	1823.3
22.5°	1603.4	1709.9	1744.2	1747.7	1758.0	1758.0	1761.5	1773.4	1788.9	1790.7	1790.7
25°	1534.6	1672.0	1701.3	1711.6	1721.9	1727.0	1732.3	1739.1	1744.2	1742.5	1744.2
27.5°	1462.4	1624.0	1661.8	1668.6	1682.4	1687.5	1694.4	1696.1	1697.8	1703.0	1699.5
30°	1381.6	1556.9	1613.6	1620.5	1642.8	1646.3	1639.4	1642.8	1651.5	1654.9	1658.3
32.5°	1290.6	1457.2	1563.8	1579.3	1599.9	1589.6	1587.8	1593.0	1606.8	1606.8	1610.2
35°	1166.8	1379.9	1517.4	1531.2	1546.7	1534.6	1541.4	1543.2	1551.8	1556.9	1555.2
37.5°	1031.1	1312.9	1469.3	1479.6	1491.6	1476.2	1486.4	1491.6	1498.5	1495.1	1495.1
40°	910.8	1208.1	1412.6	1419.5	1429.7	1417.8	1428.0	1431.5	1434.9	1431.5	1429.7
42.5°	821.4	1092.9	1352.4	1361.1	1354.1	1362.8	1366.2	1373.1	1367.9	1361.1	1361.1
45°	752.7	1062.0	1287.2	1297.4	1287.2	1300.9	1306.0	1306.0	1290.6	1287.2	1285.4
47.5°	730.4	1000.2	1221.8	1221.8	1216.7	1233.9	1242.4	1230.5	1215.0	1209.8	1209.8
50°	728.7	931.4	1132.5	1125.6	1149.7	1170.2	1161.7	1149.7	1137.6	1118.7	1118.7
52.5°	661.6	847.2	1017.4	1043.1	1080.9	1092.9	1079.2	1067.1	1046.6	1037.9	1031.1
55°	613.5	759.6	912.5	964.1	1003.6	1019.1	993.3	981.2	950.3	945.2	941.8
57.5°	603.2	632.4	816.3	881.5	929.7	928.0	912.5	890.2	864.4	859.3	857.5
60°	553.4	457.1	713.2	790.5	840.3	835.2	821.4	800.8	776.7	773.3	769.9
62.5°	501.8	331.7	596.3	684.0	754.4	752.7	740.7	709.7	692.5	684.0	677.1
65°	426.2	278.4	424.5	568.8	670.2	673.7	647.9	625.6	606.6	596.3	594.6
67.5°	324.8	226.9	287.0	474.3	589.4	586.0	553.4	543.1	519.0	513.8	503.5
70°	240.6	151.3	199.4	385.0	510.4	501.8	476.0	464.0	441.7	429.6	422.7
72.5°	199.4	122.0	146.1	299.0	429.6	419.3	397.0	383.2	364.3	354.0	347.1
75°	161.5	128.9	111.7	221.6	348.8	342.0	321.3	307.6	292.1	278.4	280.1
77.5°	118.6	120.3	89.3	163.2	276.7	266.4	254.4	237.2	230.3	216.5	216.5
80°	89.3	94.6	67.0	111.7	199.4	199.4	189.0	177.0	164.9	158.1	158.1
82.5°	60.1	60.1	49.8	70.5	135.7	130.6	123.8	120.3	113.4	110.0	110.0
85°	27.5	34.3	30.9	43.0	73.9	77.3	77.3	73.9	72.2	68.8	70.5
87.5°	8.6	15.5	18.9	24.1	37.8	39.5	41.3	41.3	41.3	43.0	43.0
90°	2.6	4.6	6.7	7.2	11.3	16.7	19.5	17.3	13.0	9.7	9.7
92.5°	10.2	27.7	45.2	49.5	69.6	96.4	109.8	96.3	69.1	48.8	46.8
95°	24.6	56.5	88.5	96.5	171.3	271.2	321.1	286.5	217.4	165.5	159.6
97.5°	42.6	70.8	99.0	106.0	230.8	397.3	480.4	458.6	414.9	382.1	370.9
100°	56.5	82.0	107.5	113.9	252.5	437.1	529.5	531.1	534.3	536.6	523.3
102.5°	68.2	92.1	115.9	121.9	262.4	449.7	543.3	571.2	626.8	668.5	657.1
105°	88.3	108.5	128.6	133.7	269.7	451.1	541.8	604.1	728.9	822.5	816.4
107.5°	108.8	127.6	146.5	151.2	271.1	431.0	510.9	598.0	772.0	902.6	904.1
110°	122.7	139.6	156.6	160.9	269.1	413.2	485.3	582.6	777.2	923.1	929.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	136.3	152.5	168.7	172.7	269.1	397.7	462.0	561.6	760.7	910.1	919.9
115°	156.8	171.8	186.7	190.5	271.6	379.8	434.0	529.9	721.7	865.7	879.2
117.5°	177.1	190.6	204.2	207.6	276.7	368.7	414.8	501.4	674.5	804.3	819.5
120°	188.8	201.7	214.5	217.6	280.8	364.9	407.0	486.1	644.4	763.0	777.7
122.5°	200.5	213.4	226.2	229.4	286.6	362.9	401.1	472.3	614.8	721.7	736.1
125°	218.1	229.9	241.7	244.6	294.7	361.4	394.7	455.2	576.2	667.0	680.3
127.5°	232.5	244.4	256.2	259.2	302.6	360.4	389.3	441.2	545.2	623.1	634.4
130°	240.2	253.0	265.8	269.0	308.4	361.0	387.3	433.6	526.1	595.4	605.8
132.5°	248.2	260.9	273.7	276.9	313.1	361.4	385.5	426.9	509.7	571.8	581.1
135°	260.0	271.6	283.2	286.1	318.2	361.0	382.4	417.1	486.4	538.4	546.5
137.5°	272.0	283.6	295.0	297.9	325.9	363.3	381.9	411.2	469.8	513.8	520.3
140°	282.0	292.6	303.3	305.9	330.6	363.6	380.1	405.4	456.0	494.0	500.2
142.5°	289.7	299.5	309.4	311.8	334.6	364.9	380.1	402.3	446.8	480.2	485.5
145°	301.6	310.1	318.7	320.8	339.7	364.9	377.5	395.7	432.1	459.4	463.4
147.5°	313.4	321.7	330.0	332.1	347.2	367.4	377.5	391.9	420.5	441.9	445.3
150°	321.1	328.6	336.1	338.0	351.1	368.7	377.5	389.7	413.8	431.9	434.6
152.5°	329.0	334.7	340.4	341.8	353.7	369.6	377.5	387.9	408.5	424.0	426.0
155°	340.8	345.0	349.3	350.3	359.3	371.5	377.5	385.7	402.2	414.5	415.9
157.5°	349.5	353.6	357.8	358.8	365.1	373.3	377.5	383.9	396.7	406.2	407.2
160°	355.5	358.6	361.9	362.7	367.6	374.2	377.5	383.0	393.9	402.1	402.6
162.5°	361.4	363.8	366.2	366.8	370.3	375.1	377.5	382.1	391.4	398.3	398.8
165°	367.8	369.9	372.1	372.7	374.3	376.4	377.5	380.9	387.4	392.4	392.9
167.5°	373.7	374.7	375.7	376.0	377.4	379.1	380.1	382.2	386.6	389.8	390.1
170°	377.5	378.5	379.6	379.8	379.9	380.0	380.1	382.2	386.6	389.8	389.8
172.5°	379.6	379.8	380.0	380.1	380.1	380.1	380.1	381.8	385.2	387.8	387.6
175°	382.4	382.4	382.4	382.4	381.6	380.6	380.1	381.2	383.3	385.0	385.0
177.5°	382.4	382.4	382.4	382.4	381.8	381.0	380.6	381.5	383.2	384.4	384.2
180°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1862.9	1857.6	1862.9	1859.4	1861.1	1855.9	1840.5	1835.4	1840.5	1845.6	1845.6
5°	1885.1	1881.7	1885.1	1885.1	1883.4	1880.0	1862.9	1859.4	1862.9	1864.6	1861.1
7.5°	1892.1	1886.9	1892.1	1888.6	1888.6	1885.1	1868.0	1864.6	1866.3	1871.4	1866.3
10°	1892.1	1886.9	1892.1	1890.4	1888.6	1885.1	1868.0	1861.1	1861.1	1866.3	1861.1
12.5°	1883.4	1880.0	1883.4	1880.0	1880.0	1876.6	1859.4	1852.5	1854.2	1855.9	1849.1
15°	1869.7	1864.6	1869.7	1866.3	1868.0	1862.9	1843.9	1837.1	1837.1	1840.5	1828.4
17.5°	1849.1	1842.2	1849.1	1847.4	1845.6	1842.2	1825.0	1818.2	1816.4	1818.2	1809.6
20°	1825.0	1819.9	1825.0	1823.3	1823.3	1816.4	1799.2	1790.7	1790.7	1790.7	1782.1
22.5°	1787.2	1782.1	1787.2	1790.7	1790.7	1788.9	1773.4	1761.5	1758.0	1758.0	1747.7
25°	1744.2	1739.1	1744.2	1744.2	1742.5	1744.2	1739.1	1732.3	1727.0	1721.9	1711.6
27.5°	1703.0	1699.5	1703.0	1699.5	1703.0	1697.8	1696.1	1694.4	1687.5	1682.4	1668.6
30°	1661.8	1658.3	1661.8	1658.3	1654.9	1651.5	1642.8	1639.4	1646.3	1642.8	1620.5
32.5°	1610.2	1606.8	1610.2	1610.2	1606.8	1606.8	1593.0	1587.8	1589.6	1599.9	1579.3
35°	1556.9	1551.8	1556.9	1555.2	1556.9	1551.8	1543.2	1541.4	1534.6	1546.7	1531.2
37.5°	1495.1	1489.9	1495.1	1495.1	1495.1	1498.5	1491.6	1486.4	1476.2	1491.6	1479.6
40°	1431.5	1424.6	1431.5	1429.7	1431.5	1434.9	1431.5	1428.0	1417.8	1429.7	1419.5
42.5°	1359.3	1357.6	1359.3	1361.1	1361.1	1367.9	1373.1	1366.2	1362.8	1354.1	1361.1
45°	1282.0	1278.5	1282.0	1285.4	1287.2	1290.6	1306.0	1306.0	1300.9	1287.2	1297.4
47.5°	1199.5	1190.9	1199.5	1209.8	1209.8	1215.0	1230.5	1242.4	1233.9	1216.7	1221.8
50°	1111.8	1113.5	1111.8	1118.7	1118.7	1137.6	1149.7	1161.7	1170.2	1149.7	1125.6
52.5°	1025.9	1024.2	1025.9	1031.1	1037.9	1046.6	1067.1	1079.2	1092.9	1080.9	1043.1
55°	940.0	943.5	940.0	941.8	945.2	950.3	981.2	993.3	1019.1	1003.6	964.1
57.5°	854.0	848.9	854.0	857.5	859.3	864.4	890.2	912.5	928.0	929.7	881.5
60°	754.4	747.5	754.4	769.9	773.3	776.7	800.8	821.4	835.2	840.3	790.5
62.5°	666.7	654.8	666.7	677.1	684.0	692.5	709.7	740.7	752.7	754.4	684.0
65°	574.0	568.8	574.0	594.6	596.3	606.6	625.6	647.9	673.7	670.2	568.8
67.5°	489.8	489.8	489.8	503.5	513.8	519.0	543.1	553.4	586.0	589.4	474.3
70°	412.5	410.8	412.5	422.7	429.6	441.7	464.0	476.0	501.8	510.4	385.0
72.5°	338.6	336.8	338.6	347.1	354.0	364.3	383.2	397.0	419.3	429.6	299.0
75°	273.2	269.8	273.2	280.1	278.4	292.1	307.6	321.3	342.0	348.8	221.6
77.5°	209.7	209.7	209.7	216.5	216.5	230.3	237.2	254.4	266.4	276.7	163.2
80°	156.4	154.7	156.4	158.1	158.1	164.9	177.0	189.0	199.4	199.4	111.7
82.5°	110.0	106.5	110.0	110.0	110.0	113.4	120.3	123.8	130.6	135.7	70.5
85°	68.8	68.8	68.8	70.5	68.8	72.2	73.9	77.3	77.3	73.9	43.0
87.5°	44.7	43.0	44.7	43.0	43.0	41.3	41.3	41.3	39.5	37.8	24.1
90°	9.7	9.7	9.7	9.7	9.7	13.0	17.3	19.5	16.7	11.3	7.2
92.5°	39.1	31.3	39.1	46.8	48.8	69.1	96.3	109.8	96.4	69.6	49.5
95°	136.1	112.7	136.1	159.6	165.5	217.4	286.5	321.1	271.2	171.3	96.5
97.5°	326.3	281.5	326.3	370.9	382.1	414.9	458.6	480.4	397.3	230.8	106.0
100°	470.1	416.8	470.1	523.3	536.6	534.3	531.1	529.5	437.1	252.5	113.9
102.5°	611.5	565.9	611.5	657.1	668.5	626.8	571.2	543.3	449.7	262.4	121.9
105°	791.9	767.3	791.9	816.4	822.5	728.9	604.1	541.8	451.1	269.7	133.7
107.5°	910.1	916.0	910.1	904.1	902.6	772.0	598.0	510.9	431.0	271.1	151.2
110°	955.1	980.6	955.1	929.5	923.1	777.2	582.6	485.3	413.2	269.1	160.9



TEST NUMBER: P933825

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	959.1	998.3	959.1	919.9	910.1	760.7	561.6	462.0	397.7	269.1	172.7
115°	933.6	988.1	933.6	879.2	865.7	721.7	529.9	434.0	379.8	271.6	190.5
117.5°	879.8	940.1	879.8	819.5	804.3	674.5	501.4	414.8	368.7	276.7	207.6
120°	836.3	894.9	836.3	777.7	763.0	644.4	486.1	407.0	364.9	280.8	217.6
122.5°	794.0	851.8	794.0	736.1	721.7	614.8	472.3	401.1	362.9	286.6	229.4
125°	733.5	786.8	733.5	680.3	667.0	576.2	455.2	394.7	361.4	294.7	244.6
127.5°	679.3	724.2	679.3	634.4	623.1	545.2	441.2	389.3	360.4	302.6	259.2
130°	647.3	688.9	647.3	605.8	595.4	526.1	433.6	387.3	361.0	308.4	269.0
132.5°	618.3	655.5	618.3	581.1	571.8	509.7	426.9	385.5	361.4	313.1	276.9
135°	578.5	610.5	578.5	546.5	538.4	486.4	417.1	382.4	361.0	318.2	286.1
137.5°	546.6	572.9	546.6	520.3	513.8	469.8	411.2	381.9	363.3	325.9	297.9
140°	524.7	549.2	524.7	500.2	494.0	456.0	405.4	380.1	363.6	330.6	305.9
142.5°	506.6	527.7	506.6	485.5	480.2	446.8	402.3	380.1	364.9	334.6	311.8
145°	479.3	495.3	479.3	463.4	459.4	432.1	395.7	377.5	364.9	339.7	320.8
147.5°	458.5	471.7	458.5	445.3	441.9	420.5	391.9	377.5	367.4	347.2	332.1
150°	445.3	456.0	445.3	434.6	431.9	413.8	389.7	377.5	368.7	351.1	338.0
152.5°	434.1	442.2	434.1	426.0	424.0	408.5	387.9	377.5	369.6	353.7	341.8
155°	421.2	426.6	421.2	415.9	414.5	402.2	385.7	377.5	371.5	359.3	350.3
157.5°	411.0	414.8	411.0	407.2	406.2	396.7	383.9	377.5	373.3	365.1	358.8
160°	404.9	407.0	404.9	402.6	402.1	393.9	383.0	377.5	374.2	367.6	362.7
162.5°	400.8	402.9	400.8	398.8	398.3	391.4	382.1	377.5	375.1	370.3	366.8
165°	395.1	397.3	395.1	392.9	392.4	387.4	380.9	377.5	376.4	374.3	372.7
167.5°	390.9	391.9	390.9	390.1	389.8	386.6	382.2	380.1	379.1	377.4	376.0
170°	389.8	389.8	389.8	389.8	389.8	386.6	382.2	380.1	380.0	379.9	379.8
172.5°	386.7	386.0	386.7	387.6	387.8	385.2	381.8	380.1	380.1	380.1	380.1
175°	385.0	385.0	385.0	385.0	385.0	383.3	381.2	380.1	380.6	381.6	382.4
177.5°	383.3	382.4	383.3	384.2	384.4	383.2	381.5	380.6	381.0	381.8	382.4
180°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4



TEST NUMBER: P933825

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1842.2	1831.8	1831.8	1814.7	1807.8	1802.6	1794.1	1768.3	1761.5	1754.5	1764.9
5°	1857.6	1838.8	1825.0	1794.1	1768.3	1758.0	1725.3	1663.5	1622.2	1591.3	1574.2
7.5°	1861.1	1837.1	1811.3	1763.2	1701.3	1673.7	1574.2	1460.7	1429.7	1402.3	1385.1
10°	1857.6	1830.1	1794.1	1721.9	1575.9	1527.7	1428.0	1354.1	1335.3	1330.1	1335.3
12.5°	1845.6	1819.9	1770.0	1649.7	1445.3	1412.6	1354.1	1311.2	1307.8	1316.4	1362.8
15°	1825.0	1800.9	1742.5	1553.5	1373.1	1349.0	1307.8	1292.3	1311.2	1371.3	1510.5
17.5°	1804.4	1776.9	1704.8	1459.0	1318.1	1300.9	1271.6	1302.6	1409.1	1489.9	1536.3
20°	1776.9	1744.2	1661.8	1390.3	1278.5	1263.1	1249.3	1388.6	1469.3	1498.5	1524.3
22.5°	1744.2	1709.9	1603.4	1342.1	1237.3	1225.2	1233.9	1436.6	1469.3	1489.9	1512.2
25°	1701.3	1672.0	1534.6	1304.3	1204.7	1190.9	1223.5	1431.5	1450.4	1455.5	1500.2
27.5°	1661.8	1624.0	1462.4	1269.9	1165.1	1160.0	1232.2	1409.1	1422.9	1428.0	1476.2
30°	1613.6	1556.9	1381.6	1233.9	1123.9	1122.2	1233.9	1381.6	1378.2	1392.0	1440.1
32.5°	1563.8	1457.2	1290.6	1189.2	1084.3	1082.6	1221.8	1340.4	1337.0	1355.8	1392.0
35°	1517.4	1379.9	1166.8	1137.6	1034.5	1036.2	1192.6	1292.3	1294.0	1311.2	1333.6
37.5°	1469.3	1312.9	1031.1	1080.9	986.4	986.4	1153.1	1247.6	1244.2	1249.3	1280.3
40°	1412.6	1208.1	910.8	1007.0	941.8	936.6	1105.0	1199.5	1187.5	1185.8	1228.7
42.5°	1352.4	1092.9	821.4	909.0	890.2	883.3	1046.6	1141.0	1118.7	1123.9	1178.9
45°	1287.2	1062.0	752.7	768.1	836.9	831.7	982.9	1074.1	1058.6	1072.4	1129.1
47.5°	1221.8	1000.2	730.4	637.5	780.2	778.5	912.5	1008.7	1000.2	1013.9	1074.1
50°	1132.5	931.4	728.7	546.5	716.6	723.4	828.3	945.2	945.2	957.2	1020.8
52.5°	1017.4	847.2	661.6	494.9	642.7	663.3	754.4	890.2	893.6	905.6	962.3
55°	912.5	759.6	613.5	455.4	555.1	599.8	682.2	833.5	840.3	852.3	903.9
57.5°	816.3	632.4	603.2	409.0	474.3	517.3	618.6	778.5	781.9	792.2	842.1
60°	713.2	457.1	553.4	359.2	403.8	436.5	560.2	713.2	725.2	732.1	775.0
62.5°	596.3	331.7	501.8	324.8	369.5	376.3	512.1	651.3	666.7	671.9	697.7
65°	424.5	278.4	426.2	295.6	333.4	335.1	460.5	587.7	601.5	610.0	629.0
67.5°	287.0	226.9	324.8	268.1	305.9	307.6	410.8	513.8	532.7	539.6	551.6
70°	199.4	151.3	240.6	238.9	274.9	278.4	357.5	446.8	464.0	469.2	476.0
72.5°	146.1	122.0	199.4	214.8	242.3	245.7	302.4	371.2	388.4	393.5	397.0
75°	111.7	128.9	161.5	187.3	206.2	207.9	247.4	302.4	314.5	317.9	319.6
77.5°	89.3	120.3	118.6	151.3	168.4	164.9	194.2	233.7	244.0	244.0	244.0
80°	67.0	94.6	89.3	108.3	123.8	120.3	139.2	166.7	170.1	173.6	171.9
82.5°	49.8	60.1	60.1	68.8	82.5	79.1	92.8	108.3	108.3	108.3	111.7
85°	30.9	34.3	27.5	36.1	46.4	44.7	51.6	58.4	60.1	60.1	56.7
87.5°	18.9	15.5	8.6	13.8	20.6	20.6	24.1	25.8	24.1	24.1	24.1
90°	6.7	4.6	2.6	4.6	6.7	7.2	11.3	16.7	19.5	17.3	13.0
92.5°	45.2	27.7	10.2	27.7	45.2	49.5	69.6	96.4	109.8	96.3	69.1
95°	88.5	56.5	24.6	56.5	88.5	96.5	171.3	271.2	321.1	286.5	217.4
97.5°	99.0	70.8	42.6	70.8	99.0	106.0	230.8	397.3	480.4	458.6	414.9
100°	107.5	82.0	56.5	82.0	107.5	113.9	252.5	437.1	529.5	531.1	534.3
102.5°	115.9	92.1	68.2	92.1	115.9	121.9	262.4	449.7	543.3	571.2	626.8
105°	128.6	108.5	88.3	108.5	128.6	133.7	269.7	451.1	541.8	604.1	728.9
107.5°	146.5	127.6	108.8	127.6	146.5	151.2	271.1	431.0	510.9	598.0	772.0
110°	156.6	139.6	122.7	139.6	156.6	160.9	269.1	413.2	485.3	582.6	777.2



TEST NUMBER: P933825

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	168.7	152.5	136.3	152.5	168.7	172.7	269.1	397.7	462.0	561.6	760.7
115°	186.7	171.8	156.8	171.8	186.7	190.5	271.6	379.8	434.0	529.9	721.7
117.5°	204.2	190.6	177.1	190.6	204.2	207.6	276.7	368.7	414.8	501.4	674.5
120°	214.5	201.7	188.8	201.7	214.5	217.6	280.8	364.9	407.0	486.1	644.4
122.5°	226.2	213.4	200.5	213.4	226.2	229.4	286.6	362.9	401.1	472.3	614.8
125°	241.7	229.9	218.1	229.9	241.7	244.6	294.7	361.4	394.7	455.2	576.2
127.5°	256.2	244.4	232.5	244.4	256.2	259.2	302.6	360.4	389.3	441.2	545.2
130°	265.8	253.0	240.2	253.0	265.8	269.0	308.4	361.0	387.3	433.6	526.1
132.5°	273.7	260.9	248.2	260.9	273.7	276.9	313.1	361.4	385.5	426.9	509.7
135°	283.2	271.6	260.0	271.6	283.2	286.1	318.2	361.0	382.4	417.1	486.4
137.5°	295.0	283.6	272.0	283.6	295.0	297.9	325.9	363.3	381.9	411.2	469.8
140°	303.3	292.6	282.0	292.6	303.3	305.9	330.6	363.6	380.1	405.4	456.0
142.5°	309.4	299.5	289.7	299.5	309.4	311.8	334.6	364.9	380.1	402.3	446.8
145°	318.7	310.1	301.6	310.1	318.7	320.8	339.7	364.9	377.5	395.7	432.1
147.5°	330.0	321.7	313.4	321.7	330.0	332.1	347.2	367.4	377.5	391.9	420.5
150°	336.1	328.6	321.1	328.6	336.1	338.0	351.1	368.7	377.5	389.7	413.8
152.5°	340.4	334.7	329.0	334.7	340.4	341.8	353.7	369.6	377.5	387.9	408.5
155°	349.3	345.0	340.8	345.0	349.3	350.3	359.3	371.5	377.5	385.7	402.2
157.5°	357.8	353.6	349.5	353.6	357.8	358.8	365.1	373.3	377.5	383.9	396.7
160°	361.9	358.6	355.5	358.6	361.9	362.7	367.6	374.2	377.5	383.0	393.9
162.5°	366.2	363.8	361.4	363.8	366.2	366.8	370.3	375.1	377.5	382.1	391.4
165°	372.1	369.9	367.8	369.9	372.1	372.7	374.3	376.4	377.5	380.9	387.4
167.5°	375.7	374.7	373.7	374.7	375.7	376.0	377.4	379.1	380.1	382.2	386.6
170°	379.6	378.5	377.5	378.5	379.6	379.8	379.9	380.0	380.1	382.2	386.6
172.5°	380.0	379.8	379.6	379.8	380.0	380.1	380.1	380.1	380.1	381.8	385.2
175°	382.4	382.4	382.4	382.4	382.4	382.4	381.6	380.6	380.1	381.2	383.3
177.5°	382.4	382.4	382.4	382.4	382.4	382.4	381.8	381.0	380.6	381.5	383.2
180°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4



TEST NUMBER: P933825
 CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1752.8	1747.7	1754.5	1735.7	1754.5	1747.7	1752.8	1764.9	1754.5	1761.5	1768.3
5°	1538.0	1529.4	1502.0	1479.6	1502.0	1529.4	1538.0	1574.2	1591.3	1622.2	1663.5
7.5°	1374.8	1367.9	1361.1	1347.3	1361.1	1367.9	1374.8	1385.1	1402.3	1429.7	1460.7
10°	1338.7	1340.4	1350.7	1349.0	1350.7	1340.4	1338.7	1335.3	1330.1	1335.3	1354.1
12.5°	1431.5	1447.0	1503.7	1500.2	1503.7	1447.0	1431.5	1362.8	1316.4	1307.8	1311.2
15°	1538.0	1543.2	1555.2	1556.9	1555.2	1543.2	1538.0	1510.5	1371.3	1311.2	1292.3
17.5°	1548.4	1550.1	1558.6	1558.6	1558.6	1550.1	1548.4	1536.3	1489.9	1409.1	1302.6
20°	1539.7	1543.2	1560.4	1563.8	1560.4	1543.2	1539.7	1524.3	1498.5	1469.3	1388.6
22.5°	1536.3	1543.2	1556.9	1555.2	1556.9	1543.2	1536.3	1512.2	1489.9	1469.3	1436.6
25°	1519.2	1519.2	1520.9	1522.6	1520.9	1519.2	1519.2	1500.2	1455.5	1450.4	1431.5
27.5°	1483.0	1486.4	1496.8	1495.1	1496.8	1486.4	1483.0	1476.2	1428.0	1422.9	1409.1
30°	1450.4	1447.0	1438.4	1431.5	1438.4	1447.0	1450.4	1440.1	1392.0	1378.2	1381.6
32.5°	1395.4	1386.8	1378.2	1373.1	1378.2	1386.8	1395.4	1392.0	1355.8	1337.0	1340.4
35°	1330.1	1331.8	1330.1	1324.9	1330.1	1331.8	1330.1	1333.6	1311.2	1294.0	1292.3
37.5°	1283.7	1287.2	1285.4	1278.5	1285.4	1287.2	1283.7	1280.3	1249.3	1244.2	1247.6
40°	1235.6	1237.3	1235.6	1230.5	1235.6	1237.3	1235.6	1228.7	1185.8	1187.5	1199.5
42.5°	1189.2	1187.5	1182.3	1178.9	1182.3	1187.5	1189.2	1178.9	1123.9	1118.7	1141.0
45°	1135.9	1137.6	1127.3	1122.2	1127.3	1137.6	1135.9	1129.1	1072.4	1058.6	1074.1
47.5°	1082.6	1082.6	1074.1	1068.9	1074.1	1082.6	1082.6	1074.1	1013.9	1000.2	1008.7
50°	1025.9	1024.2	1012.1	1010.4	1012.1	1024.2	1025.9	1020.8	957.2	945.2	945.2
52.5°	960.6	960.6	962.3	965.8	962.3	960.6	960.6	962.3	905.6	893.6	890.2
55°	903.9	905.6	917.7	921.1	917.7	905.6	903.9	903.9	852.3	840.3	833.5
57.5°	845.5	845.5	854.0	854.0	854.0	845.5	845.5	842.1	792.2	781.9	778.5
60°	778.5	781.9	788.8	787.1	788.8	781.9	778.5	775.0	732.1	725.2	713.2
62.5°	708.0	711.5	713.2	709.7	713.2	711.5	708.0	697.7	671.9	666.7	651.3
65°	634.1	637.5	639.2	635.8	639.2	637.5	634.1	629.0	610.0	601.5	587.7
67.5°	558.5	556.8	555.1	561.9	555.1	556.8	558.5	551.6	539.6	532.7	513.8
70°	481.1	481.1	479.4	482.9	479.4	481.1	481.1	476.0	469.2	464.0	446.8
72.5°	398.7	397.0	403.8	398.7	403.8	397.0	398.7	397.0	393.5	388.4	371.2
75°	317.9	321.3	317.9	323.0	317.9	321.3	317.9	319.6	317.9	314.5	302.4
77.5°	242.3	245.7	242.3	242.3	242.3	245.7	242.3	244.0	244.0	244.0	233.7
80°	171.9	170.1	170.1	168.4	170.1	170.1	171.9	171.9	173.6	170.1	166.7
82.5°	110.0	108.3	108.3	111.7	108.3	108.3	110.0	111.7	108.3	108.3	108.3
85°	60.1	61.8	58.4	58.4	58.4	61.8	60.1	56.7	60.1	60.1	58.4
87.5°	22.4	20.6	20.6	20.6	20.6	20.6	22.4	24.1	24.1	24.1	25.8
90°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	13.0	17.3	19.5	16.7
92.5°	48.8	46.8	39.1	31.3	39.1	46.8	48.8	69.1	96.3	109.8	96.4
95°	165.5	159.6	136.1	112.7	136.1	159.6	165.5	217.4	286.5	321.1	271.2
97.5°	382.1	370.9	326.3	281.5	326.3	370.9	382.1	414.9	458.6	480.4	397.3
100°	536.6	523.3	470.1	416.8	470.1	523.3	536.6	534.3	531.1	529.5	437.1
102.5°	668.5	657.1	611.5	565.9	611.5	657.1	668.5	626.8	571.2	543.3	449.7
105°	822.5	816.4	791.9	767.3	791.9	816.4	822.5	728.9	604.1	541.8	451.1
107.5°	902.6	904.1	910.1	916.0	910.1	904.1	902.6	772.0	598.0	510.9	431.0
110°	923.1	929.5	955.1	980.6	955.1	929.5	923.1	777.2	582.6	485.3	413.2



TEST NUMBER: P933825

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	910.1	919.9	959.1	998.3	959.1	919.9	910.1	760.7	561.6	462.0	397.7
115°	865.7	879.2	933.6	988.1	933.6	879.2	865.7	721.7	529.9	434.0	379.8
117.5°	804.3	819.5	879.8	940.1	879.8	819.5	804.3	674.5	501.4	414.8	368.7
120°	763.0	777.7	836.3	894.9	836.3	777.7	763.0	644.4	486.1	407.0	364.9
122.5°	721.7	736.1	794.0	851.8	794.0	736.1	721.7	614.8	472.3	401.1	362.9
125°	667.0	680.3	733.5	786.8	733.5	680.3	667.0	576.2	455.2	394.7	361.4
127.5°	623.1	634.4	679.3	724.2	679.3	634.4	623.1	545.2	441.2	389.3	360.4
130°	595.4	605.8	647.3	688.9	647.3	605.8	595.4	526.1	433.6	387.3	361.0
132.5°	571.8	581.1	618.3	655.5	618.3	581.1	571.8	509.7	426.9	385.5	361.4
135°	538.4	546.5	578.5	610.5	578.5	546.5	538.4	486.4	417.1	382.4	361.0
137.5°	513.8	520.3	546.6	572.9	546.6	520.3	513.8	469.8	411.2	381.9	363.3
140°	494.0	500.2	524.7	549.2	524.7	500.2	494.0	456.0	405.4	380.1	363.6
142.5°	480.2	485.5	506.6	527.7	506.6	485.5	480.2	446.8	402.3	380.1	364.9
145°	459.4	463.4	479.3	495.3	479.3	463.4	459.4	432.1	395.7	377.5	364.9
147.5°	441.9	445.3	458.5	471.7	458.5	445.3	441.9	420.5	391.9	377.5	367.4
150°	431.9	434.6	445.3	456.0	445.3	434.6	431.9	413.8	389.7	377.5	368.7
152.5°	424.0	426.0	434.1	442.2	434.1	426.0	424.0	408.5	387.9	377.5	369.6
155°	414.5	415.9	421.2	426.6	421.2	415.9	414.5	402.2	385.7	377.5	371.5
157.5°	406.2	407.2	411.0	414.8	411.0	407.2	406.2	396.7	383.9	377.5	373.3
160°	402.1	402.6	404.9	407.0	404.9	402.6	402.1	393.9	383.0	377.5	374.2
162.5°	398.3	398.8	400.8	402.9	400.8	398.8	398.3	391.4	382.1	377.5	375.1
165°	392.4	392.9	395.1	397.3	395.1	392.9	392.4	387.4	380.9	377.5	376.4
167.5°	389.8	390.1	390.9	391.9	390.9	390.1	389.8	386.6	382.2	380.1	379.1
170°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	386.6	382.2	380.1	380.0
172.5°	387.8	387.6	386.7	386.0	386.7	387.6	387.8	385.2	381.8	380.1	380.1
175°	385.0	385.0	385.0	385.0	385.0	385.0	385.0	383.3	381.2	380.1	380.6
177.5°	384.4	384.2	383.3	382.4	383.3	384.2	384.4	383.2	381.5	380.6	381.0
180°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4



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CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1794.1	1802.6	1807.8	1814.7	1831.8
5°	1725.3	1758.0	1768.3	1794.1	1825.0
7.5°	1574.2	1673.7	1701.3	1763.2	1811.3
10°	1428.0	1527.7	1575.9	1721.9	1794.1
12.5°	1354.1	1412.6	1445.3	1649.7	1770.0
15°	1307.8	1349.0	1373.1	1553.5	1742.5
17.5°	1271.6	1300.9	1318.1	1459.0	1704.8
20°	1249.3	1263.1	1278.5	1390.3	1661.8
22.5°	1233.9	1225.2	1237.3	1342.1	1603.4
25°	1223.5	1190.9	1204.7	1304.3	1534.6
27.5°	1232.2	1160.0	1165.1	1269.9	1462.4
30°	1233.9	1122.2	1123.9	1233.9	1381.6
32.5°	1221.8	1082.6	1084.3	1189.2	1290.6
35°	1192.6	1036.2	1034.5	1137.6	1166.8
37.5°	1153.1	986.4	986.4	1080.9	1031.1
40°	1105.0	936.6	941.8	1007.0	910.8
42.5°	1046.6	883.3	890.2	909.0	821.4
45°	982.9	831.7	836.9	768.1	752.7
47.5°	912.5	778.5	780.2	637.5	730.4
50°	828.3	723.4	716.6	546.5	728.7
52.5°	754.4	663.3	642.7	494.9	661.6
55°	682.2	599.8	555.1	455.4	613.5
57.5°	618.6	517.3	474.3	409.0	603.2
60°	560.2	436.5	403.8	359.2	553.4
62.5°	512.1	376.3	369.5	324.8	501.8
65°	460.5	335.1	333.4	295.6	426.2
67.5°	410.8	307.6	305.9	268.1	324.8
70°	357.5	278.4	274.9	238.9	240.6
72.5°	302.4	245.7	242.3	214.8	199.4
75°	247.4	207.9	206.2	187.3	161.5
77.5°	194.2	164.9	168.4	151.3	118.6
80°	139.2	120.3	123.8	108.3	89.3
82.5°	92.8	79.1	82.5	68.8	60.1
85°	51.6	44.7	46.4	36.1	27.5
87.5°	24.1	20.6	20.6	13.8	8.6
90°	11.3	7.2	6.7	4.6	2.6
92.5°	69.6	49.5	45.2	27.7	10.2
95°	171.3	96.5	88.5	56.5	24.6
97.5°	230.8	106.0	99.0	70.8	42.6
100°	252.5	113.9	107.5	82.0	56.5
102.5°	262.4	121.9	115.9	92.1	68.2
105°	269.7	133.7	128.6	108.5	88.3
107.5°	271.1	151.2	146.5	127.6	108.8
110°	269.1	160.9	156.6	139.6	122.7



TEST NUMBER: P933825

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	269.1	172.7	168.7	152.5	136.3
115°	271.6	190.5	186.7	171.8	156.8
117.5°	276.7	207.6	204.2	190.6	177.1
120°	280.8	217.6	214.5	201.7	188.8
122.5°	286.6	229.4	226.2	213.4	200.5
125°	294.7	244.6	241.7	229.9	218.1
127.5°	302.6	259.2	256.2	244.4	232.5
130°	308.4	269.0	265.8	253.0	240.2
132.5°	313.1	276.9	273.7	260.9	248.2
135°	318.2	286.1	283.2	271.6	260.0
137.5°	325.9	297.9	295.0	283.6	272.0
140°	330.6	305.9	303.3	292.6	282.0
142.5°	334.6	311.8	309.4	299.5	289.7
145°	339.7	320.8	318.7	310.1	301.6
147.5°	347.2	332.1	330.0	321.7	313.4
150°	351.1	338.0	336.1	328.6	321.1
152.5°	353.7	341.8	340.4	334.7	329.0
155°	359.3	350.3	349.3	345.0	340.8
157.5°	365.1	358.8	357.8	353.6	349.5
160°	367.6	362.7	361.9	358.6	355.5
162.5°	370.3	366.8	366.2	363.8	361.4
165°	374.3	372.7	372.1	369.9	367.8
167.5°	377.4	376.0	375.7	374.7	373.7
170°	379.9	379.8	379.6	378.5	377.5
172.5°	380.1	380.1	380.0	379.8	379.6
175°	381.6	382.4	382.4	382.4	382.4
177.5°	381.8	382.4	382.4	382.4	382.4
180°	382.4	382.4	382.4	382.4	382.4



TEST NUMBER: P933825
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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	12.13	13.15	12.94	13.99	15.02	14.98	16.00	15.79	16.84	17.87
	3H	12.62	13.54	13.44	14.38	15.44	16.35	17.26	17.17	18.11	19.16
	4H	12.82	13.68	13.66	14.53	15.60	16.80	17.67	17.64	18.52	19.59
	6H	12.95	13.74	13.80	14.60	15.68	17.10	17.90	17.95	18.76	19.84
	8H	12.95	13.71	13.81	14.59	15.67	17.18	17.94	18.05	18.82	19.90
	12H	12.93	13.65	13.80	14.52	15.63	17.23	17.95	18.10	18.82	19.93
4H	2H	13.19	14.05	14.03	14.90	15.97	15.41	16.27	16.25	17.12	18.19
	3H	14.23	14.95	15.09	15.83	16.92	16.94	17.66	17.79	18.54	19.63
	4H	14.51	15.17	15.38	16.05	17.16	17.48	18.13	18.35	19.01	20.12
	6H	14.65	15.21	15.53	16.12	17.23	17.86	18.42	18.74	19.33	20.44
	8H	14.66	15.18	15.54	16.08	17.21	17.97	18.50	18.86	19.40	20.53
	12H	14.63	15.11	15.54	16.03	17.16	18.04	18.51	18.95	19.43	20.57
8H	4H	14.98	15.51	15.87	16.41	17.54	17.61	18.14	18.50	19.04	20.17
	6H	15.25	15.69	16.17	16.63	17.76	18.06	18.50	18.98	19.44	20.57
	8H	15.29	15.68	16.22	16.62	17.76	18.22	18.61	19.14	19.54	20.69
	12H	15.29	15.63	16.21	16.55	17.75	18.33	18.67	19.26	19.60	20.79
12H	4H	15.00	15.47	15.90	16.39	17.53	17.58	18.06	18.49	18.98	20.11
	6H	15.31	15.70	16.24	16.64	17.78	18.06	18.45	18.99	19.38	20.53
	8H	15.39	15.73	16.32	16.66	17.85	18.23	18.57	19.16	19.50	20.70