

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: P933826

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933826
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-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

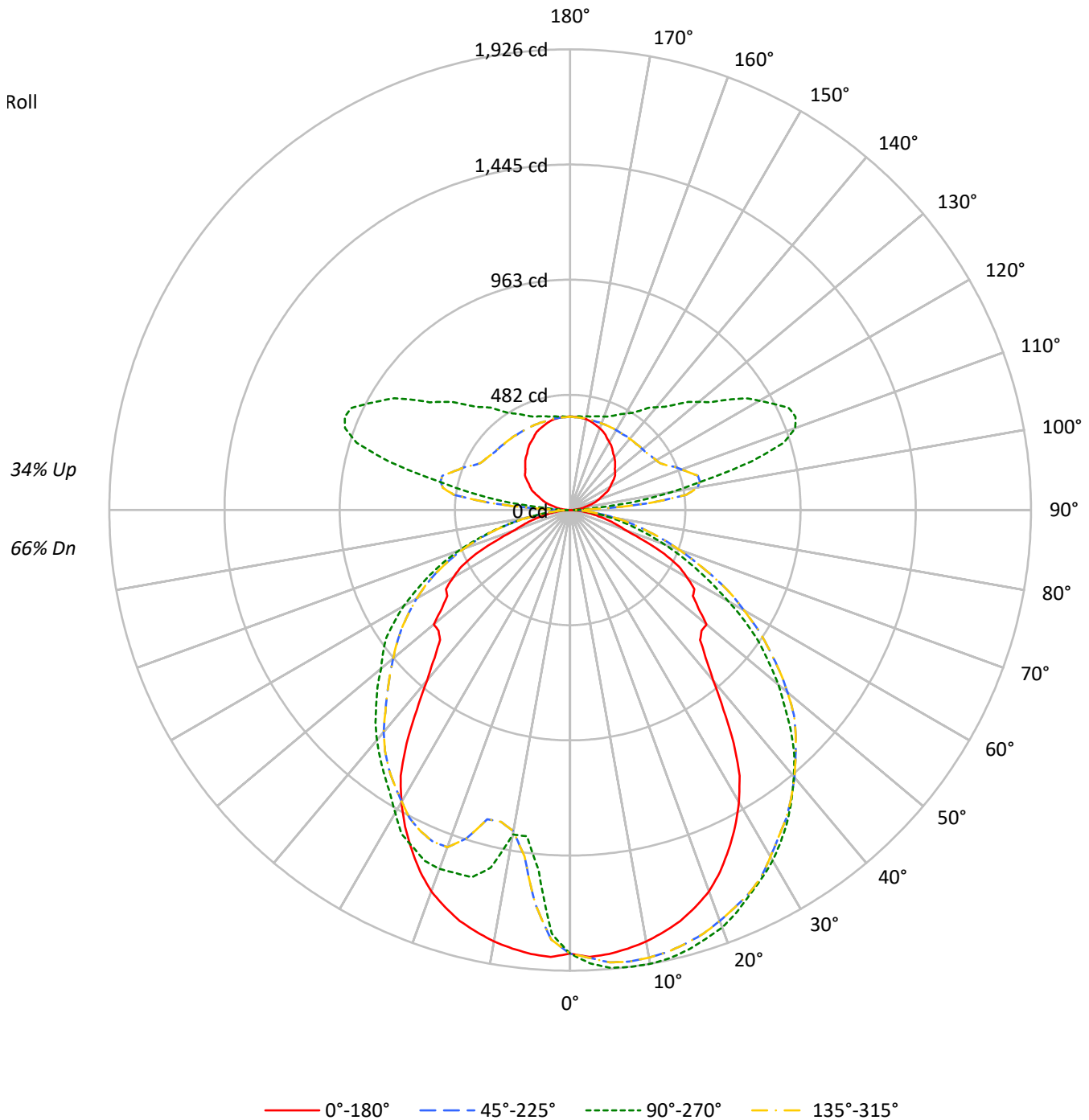
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7340.8 lumens
Efficiency: N/A
Efficacy: 111.2 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	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	66													
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55													
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46													
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39													
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34													
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29													
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26													
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23													
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20													
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18													
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5781	5790	5781	4553
10°	5745	5704	5745	4078
15°	5684	5580	5684	4659
20°	5568	5434	5568	4669
25°	5327	5220	5327	4570
30°	5014	5043	5014	4353
35°	4472	4819	4472	4114
40°	3728	4555	3728	3934
45°	3333	4246	3333	3727
50°	3544	3877	3544	3518
55°	3338	3480	3338	3398
60°	3445	2956	3445	3112
65°	3129	2444	3129	2731
70°	2172	1948	2172	2289
75°	1911	1440	1911	1723
80°	1551	952	1551	1037
85°	911	504	911	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	2.3
10°-20°	475.3	6.5
20°-30°	734.7	10.0
30°-40°	877.1	11.9
40°-50°	882.3	12.0
50°-60°	767.7	10.5
60°-70°	544.3	7.4
70°-80°	288.0	3.9
80°-90°	73.2	1.0
90°-100°	190.3	2.6
100°-110°	500.3	6.8
110°-120°	518.8	7.1
120°-130°	416.1	5.7
130°-140°	326.5	4.4
140°-150°	250.6	3.4
150°-160°	180.5	2.5
160°-170°	110.4	1.5
170°-180°	37.3	0.5
0°-30°	1377.4	18.8
0°-40°	2254.5	30.7
0°-60°	3904.4	53.2
0°-90°	4809.9	65.5
90°-120°	1209.4	16.5
90°-150°	2202.7	30.0
90°-180°	2531.0	34.5
0°-180°	7340.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1854	1854	1854	1854	1854	
5°	1863	1921	1863	1511	1863	177
15°	1779	1904	1779	1590	1779	501
25°	1567	1776	1567	1554	1567	719
35°	1191	1584	1191	1353	1191	737
45°	768	1305	768	1146	768	616
55°	626	963	626	940	626	576
65°	435	581	435	649	435	416
75°	165	276	165	330	165	173
85°	28	70	28	60	28	38
90°	3	10	3	10	3	3
95°	25	115	25	115	25	28
105°	90	783	90	783	90	96
115°	160	1009	160	1009	160	158
125°	223	803	223	803	223	198
135°	265	623	265	623	265	205
145°	308	506	308	506	308	193
155°	348	436	348	436	348	160
165°	376	406	376	406	376	106
175°	390	393	390	393	390	37
180°	390	390	390	390	390	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1870.3	1870.3	1880.8	1884.3	1884.3	1879.1	1873.8	1879.1	1894.8	1900.1	1898.3
5°	1863.3	1877.3	1896.6	1900.1	1903.7	1901.9	1898.3	1901.9	1919.4	1922.9	1924.7
7.5°	1849.2	1875.6	1900.1	1905.4	1910.6	1905.4	1903.7	1907.1	1924.7	1928.2	1928.2
10°	1831.7	1868.5	1896.6	1900.1	1905.4	1900.1	1900.1	1907.1	1924.7	1928.2	1930.0
12.5°	1807.1	1858.0	1884.3	1887.9	1894.8	1893.1	1891.4	1898.3	1915.9	1919.4	1919.4
15°	1779.0	1838.7	1863.3	1866.8	1879.1	1875.6	1875.6	1882.5	1901.9	1907.1	1905.4
17.5°	1740.5	1814.2	1842.3	1847.5	1856.3	1854.5	1856.3	1863.3	1880.8	1884.3	1886.1
20°	1696.6	1780.8	1814.2	1819.4	1828.2	1828.2	1828.2	1836.9	1854.5	1861.5	1861.5
22.5°	1637.0	1745.7	1780.8	1784.4	1794.8	1794.8	1798.4	1810.6	1826.4	1828.2	1828.2
25°	1566.8	1707.1	1736.9	1747.5	1758.0	1763.3	1768.6	1775.5	1780.8	1779.0	1780.8
27.5°	1493.1	1658.0	1696.6	1703.6	1717.6	1722.9	1729.9	1731.7	1733.4	1738.7	1735.2
30°	1410.6	1589.5	1647.4	1654.5	1677.3	1680.8	1673.8	1677.3	1686.1	1689.6	1693.1
32.5°	1317.6	1487.8	1596.6	1612.4	1633.4	1622.9	1621.1	1626.4	1640.5	1640.5	1644.0
35°	1191.3	1408.9	1549.3	1563.3	1579.1	1566.8	1573.8	1575.5	1584.3	1589.5	1587.8
37.5°	1052.7	1340.4	1500.1	1510.6	1522.9	1507.1	1517.6	1522.9	1529.9	1526.4	1526.4
40°	929.8	1233.4	1442.2	1449.2	1459.7	1447.5	1458.0	1461.5	1465.0	1461.5	1459.7
42.5°	838.6	1115.9	1380.8	1389.6	1382.5	1391.3	1394.8	1401.9	1396.6	1389.6	1389.6
45°	768.4	1084.3	1314.2	1324.6	1314.2	1328.2	1333.4	1333.4	1317.6	1314.2	1312.3
47.5°	745.7	1021.2	1247.4	1247.4	1242.2	1259.7	1268.5	1256.3	1240.5	1235.1	1235.1
50°	743.9	951.0	1156.2	1149.2	1173.8	1194.8	1186.1	1173.8	1161.5	1142.2	1142.2
52.5°	675.5	865.0	1038.7	1065.0	1103.6	1115.9	1101.8	1089.5	1068.5	1059.7	1052.7
55°	626.4	775.5	931.6	984.3	1024.6	1040.4	1014.1	1001.8	970.2	965.0	961.5
57.5°	615.8	645.7	833.4	900.0	949.2	947.5	931.6	908.8	882.5	877.3	875.5
60°	565.0	466.7	728.1	807.1	857.9	852.7	838.6	817.6	793.0	789.5	786.1
62.5°	512.3	338.6	608.8	698.3	770.2	768.4	756.2	724.6	707.0	698.3	691.3
65°	435.1	284.2	433.4	580.8	684.3	687.8	661.4	638.7	619.3	608.8	607.0
67.5°	331.6	231.6	293.0	484.2	601.8	598.3	565.0	554.4	529.8	524.6	514.1
70°	245.7	154.4	203.5	393.0	521.1	512.3	486.0	473.7	450.9	438.6	431.6
72.5°	203.5	124.5	149.1	305.3	438.6	428.1	405.3	391.3	371.9	361.5	354.4
75°	164.9	131.6	114.1	226.3	356.1	349.2	328.1	314.0	298.2	284.2	285.9
77.5°	121.0	122.8	91.2	166.6	282.5	272.0	259.7	242.2	235.1	221.1	221.1
80°	91.2	96.5	68.5	114.1	203.5	203.5	193.0	180.7	168.4	161.4	161.4
82.5°	61.4	61.4	50.8	71.9	138.6	133.3	126.4	122.8	115.8	112.3	112.3
85°	28.1	35.1	31.6	43.9	75.4	78.9	78.9	75.4	73.7	70.2	71.9
87.5°	8.8	15.8	19.3	24.6	38.6	40.4	42.1	42.1	42.1	43.9	43.9
90°	2.6	4.7	6.8	7.3	11.5	17.1	19.9	17.7	13.3	9.9	9.9
92.5°	10.5	28.3	46.1	50.6	71.1	98.5	112.1	98.3	70.5	49.8	47.8
95°	25.1	57.7	90.3	98.5	174.9	276.9	327.8	292.5	221.9	169.0	163.0
97.5°	43.5	72.3	101.1	108.2	235.6	405.6	490.5	468.2	423.6	390.1	378.7
100°	57.6	83.7	109.8	116.3	257.8	446.3	540.6	542.2	545.5	547.9	534.3
102.5°	69.7	94.0	118.3	124.4	267.9	459.1	554.7	583.1	639.9	682.5	670.9
105°	90.2	110.7	131.3	136.5	275.4	460.5	553.1	616.8	744.2	839.8	833.5
107.5°	111.1	130.3	149.6	154.4	276.8	440.0	521.7	610.5	788.2	921.6	923.0
110°	125.2	142.6	159.9	164.3	274.7	421.9	495.5	594.8	793.5	942.5	949.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	139.2	155.7	172.2	176.3	274.8	406.0	471.7	573.4	776.6	929.2	939.2
115°	160.1	175.4	190.6	194.5	277.3	387.8	443.1	541.0	736.9	883.8	897.7
117.5°	180.8	194.6	208.5	212.0	282.5	376.5	423.5	511.9	688.6	821.2	836.6
120°	192.8	205.9	219.0	222.2	286.6	372.5	415.5	496.3	657.9	779.0	794.0
122.5°	204.7	217.8	230.9	234.2	292.7	370.5	409.5	482.2	627.7	736.8	751.5
125°	222.7	234.8	246.8	249.8	300.9	369.0	403.0	464.7	588.3	681.0	694.6
127.5°	237.4	249.5	261.6	264.7	309.0	368.0	397.5	450.5	556.6	636.1	647.7
130°	245.2	258.3	271.4	274.6	314.9	368.5	395.4	442.6	537.1	607.9	618.5
132.5°	253.4	266.4	279.5	282.7	319.7	369.0	393.5	435.8	520.4	583.8	593.3
135°	265.4	277.3	289.2	292.1	324.9	368.6	390.4	425.8	496.6	549.7	557.9
137.5°	277.7	289.5	301.2	304.2	332.8	370.9	389.9	419.8	479.6	524.5	531.2
140°	287.9	298.8	309.7	312.4	337.6	371.2	388.1	413.9	465.6	504.4	510.7
142.5°	295.8	305.8	315.9	318.4	341.6	372.5	388.1	410.7	456.2	490.3	495.7
145°	307.9	316.6	325.4	327.5	346.8	372.5	385.4	404.0	441.2	469.0	473.1
147.5°	319.9	328.4	337.0	339.0	354.5	375.1	385.4	400.1	429.3	451.2	454.6
150°	327.8	335.5	343.1	345.1	358.5	376.5	385.4	397.8	422.5	441.0	443.7
152.5°	335.9	341.8	347.5	349.0	361.1	377.3	385.4	396.0	417.1	432.9	435.0
155°	347.9	352.2	356.6	357.6	366.9	379.2	385.4	393.8	410.6	423.2	424.6
157.5°	356.8	361.0	365.3	366.3	372.7	381.2	385.4	392.0	405.0	414.7	415.7
160°	362.9	366.2	369.5	370.3	375.3	382.0	385.4	391.0	402.2	410.6	411.1
162.5°	369.0	371.4	373.8	374.5	378.1	383.0	385.4	390.1	399.6	406.6	407.2
165°	375.5	377.7	379.9	380.5	382.1	384.3	385.4	388.8	395.6	400.6	401.1
167.5°	381.5	382.6	383.6	383.9	385.3	387.1	388.1	390.2	394.7	398.0	398.3
170°	385.4	386.5	387.5	387.8	387.9	388.0	388.1	390.2	394.7	398.0	398.0
172.5°	387.5	387.8	388.0	388.1	388.1	388.1	388.1	389.8	393.3	395.9	395.7
175°	390.4	390.4	390.4	390.4	389.6	388.6	388.1	389.2	391.4	393.0	393.0
177.5°	390.4	390.4	390.4	390.4	389.8	389.0	388.6	389.5	391.2	392.5	392.2
180°	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1901.9	1896.6	1901.9	1898.3	1900.1	1894.8	1879.1	1873.8	1879.1	1884.3	1884.3
5°	1924.7	1921.2	1924.7	1924.7	1922.9	1919.4	1901.9	1898.3	1901.9	1903.7	1900.1
7.5°	1931.7	1926.4	1931.7	1928.2	1928.2	1924.7	1907.1	1903.7	1905.4	1910.6	1905.4
10°	1931.7	1926.4	1931.7	1930.0	1928.2	1924.7	1907.1	1900.1	1900.1	1905.4	1900.1
12.5°	1922.9	1919.4	1922.9	1919.4	1919.4	1915.9	1898.3	1891.4	1893.1	1894.8	1887.9
15°	1908.9	1903.7	1908.9	1905.4	1907.1	1901.9	1882.5	1875.6	1875.6	1879.1	1866.8
17.5°	1887.9	1880.8	1887.9	1886.1	1884.3	1880.8	1863.3	1856.3	1854.5	1856.3	1847.5
20°	1863.3	1858.0	1863.3	1861.5	1861.5	1854.5	1836.9	1828.2	1828.2	1828.2	1819.4
22.5°	1824.6	1819.4	1824.6	1828.2	1828.2	1826.4	1810.6	1798.4	1794.8	1794.8	1784.4
25°	1780.8	1775.5	1780.8	1780.8	1779.0	1780.8	1775.5	1768.6	1763.3	1758.0	1747.5
27.5°	1738.7	1735.2	1738.7	1735.2	1738.7	1733.4	1731.7	1729.9	1722.9	1717.6	1703.6
30°	1696.6	1693.1	1696.6	1693.1	1689.6	1686.1	1677.3	1673.8	1680.8	1677.3	1654.5
32.5°	1644.0	1640.5	1644.0	1644.0	1640.5	1640.5	1626.4	1621.1	1622.9	1633.4	1612.4
35°	1589.5	1584.3	1589.5	1587.8	1589.5	1584.3	1575.5	1573.8	1566.8	1579.1	1563.3
37.5°	1526.4	1521.2	1526.4	1526.4	1526.4	1529.9	1522.9	1517.6	1507.1	1522.9	1510.6
40°	1461.5	1454.5	1461.5	1459.7	1461.5	1465.0	1461.5	1458.0	1447.5	1459.7	1449.2
42.5°	1387.8	1386.0	1387.8	1389.6	1389.6	1396.6	1401.9	1394.8	1391.3	1382.5	1389.6
45°	1308.8	1305.3	1308.8	1312.3	1314.2	1317.6	1333.4	1333.4	1328.2	1314.2	1324.6
47.5°	1224.6	1215.9	1224.6	1235.1	1235.1	1240.5	1256.3	1268.5	1259.7	1242.2	1247.4
50°	1135.1	1136.9	1135.1	1142.2	1142.2	1161.5	1173.8	1186.1	1194.8	1173.8	1149.2
52.5°	1047.4	1045.7	1047.4	1052.7	1059.7	1068.5	1089.5	1101.8	1115.9	1103.6	1065.0
55°	959.7	963.2	959.7	961.5	965.0	970.2	1001.8	1014.1	1040.4	1024.6	984.3
57.5°	871.9	866.7	871.9	875.5	877.3	882.5	908.8	931.6	947.5	949.2	900.0
60°	770.2	763.2	770.2	786.1	789.5	793.0	817.6	838.6	852.7	857.9	807.1
62.5°	680.7	668.5	680.7	691.3	698.3	707.0	724.6	756.2	768.4	770.2	698.3
65°	586.0	580.8	586.0	607.0	608.8	619.3	638.7	661.4	687.8	684.3	580.8
67.5°	500.0	500.0	500.0	514.1	524.6	529.8	554.4	565.0	598.3	601.8	484.2
70°	421.1	419.4	421.1	431.6	438.6	450.9	473.7	486.0	512.3	521.1	393.0
72.5°	345.7	343.8	345.7	354.4	361.5	371.9	391.3	405.3	428.1	438.6	305.3
75°	279.0	275.5	279.0	285.9	284.2	298.2	314.0	328.1	349.2	356.1	226.3
77.5°	214.1	214.1	214.1	221.1	221.1	235.1	242.2	259.7	272.0	282.5	166.6
80°	159.7	157.9	159.7	161.4	161.4	168.4	180.7	193.0	203.5	203.5	114.1
82.5°	112.3	108.7	112.3	112.3	112.3	115.8	122.8	126.4	133.3	138.6	71.9
85°	70.2	70.2	70.2	71.9	70.2	73.7	75.4	78.9	78.9	75.4	43.9
87.5°	45.6	43.9	45.6	43.9	43.9	42.1	42.1	42.1	40.4	38.6	24.6
90°	9.9	9.9	9.9	9.9	9.9	13.3	17.7	19.9	17.1	11.5	7.3
92.5°	39.9	32.0	39.9	47.8	49.8	70.5	98.3	112.1	98.5	71.1	50.6
95°	139.0	115.0	139.0	163.0	169.0	221.9	292.5	327.8	276.9	174.9	98.5
97.5°	333.1	287.4	333.1	378.7	390.1	423.6	468.2	490.5	405.6	235.6	108.2
100°	480.0	425.6	480.0	534.3	547.9	545.5	542.2	540.6	446.3	257.8	116.3
102.5°	624.3	577.7	624.3	670.9	682.5	639.9	583.1	554.7	459.1	267.9	124.4
105°	808.5	783.4	808.5	833.5	839.8	744.2	616.8	553.1	460.5	275.4	136.5
107.5°	929.2	935.2	929.2	923.0	921.6	788.2	610.5	521.7	440.0	276.8	154.4
110°	975.1	1001.2	975.1	949.0	942.5	793.5	594.8	495.5	421.9	274.7	164.3



TEST NUMBER: P933826

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	979.2	1019.2	979.2	939.2	929.2	776.6	573.4	471.7	406.0	274.8	176.3
115°	953.2	1008.8	953.2	897.7	883.8	736.9	541.0	443.1	387.8	277.3	194.5
117.5°	898.2	959.8	898.2	836.6	821.2	688.6	511.9	423.5	376.5	282.5	212.0
120°	853.8	913.6	853.8	794.0	779.0	657.9	496.3	415.5	372.5	286.6	222.2
122.5°	810.6	869.7	810.6	751.5	736.8	627.7	482.2	409.5	370.5	292.7	234.2
125°	748.9	803.3	748.9	694.6	681.0	588.3	464.7	403.0	369.0	300.9	249.8
127.5°	693.5	739.4	693.5	647.7	636.1	556.6	450.5	397.5	368.0	309.0	264.7
130°	660.9	703.3	660.9	618.5	607.9	537.1	442.6	395.4	368.5	314.9	274.6
132.5°	631.3	669.2	631.3	593.3	583.8	520.4	435.8	393.5	369.0	319.7	282.7
135°	590.6	623.3	590.6	557.9	549.7	496.6	425.8	390.4	368.6	324.9	292.1
137.5°	558.0	584.9	558.0	531.2	524.5	479.6	419.8	389.9	370.9	332.8	304.2
140°	535.7	560.7	535.7	510.7	504.4	465.6	413.9	388.1	371.2	337.6	312.4
142.5°	517.2	538.7	517.2	495.7	490.3	456.2	410.7	388.1	372.5	341.6	318.4
145°	489.4	505.7	489.4	473.1	469.0	441.2	404.0	385.4	372.5	346.8	327.5
147.5°	468.1	481.6	468.1	454.6	451.2	429.3	400.1	385.4	375.1	354.5	339.0
150°	454.7	465.6	454.7	443.7	441.0	422.5	397.8	385.4	376.5	358.5	345.1
152.5°	443.2	451.5	443.2	435.0	432.9	417.1	396.0	385.4	377.3	361.1	349.0
155°	430.0	435.5	430.0	424.6	423.2	410.6	393.8	385.4	379.2	366.9	357.6
157.5°	419.6	423.5	419.6	415.7	414.7	405.0	392.0	385.4	381.2	372.7	366.3
160°	413.3	415.5	413.3	411.1	410.6	402.2	391.0	385.4	382.0	375.3	370.3
162.5°	409.2	411.3	409.2	407.2	406.6	399.6	390.1	385.4	383.0	378.1	374.5
165°	403.4	405.6	403.4	401.1	400.6	395.6	388.8	385.4	384.3	382.1	380.5
167.5°	399.1	400.1	399.1	398.3	398.0	394.7	390.2	388.1	387.1	385.3	383.9
170°	398.0	398.0	398.0	398.0	398.0	394.7	390.2	388.1	388.0	387.9	387.8
172.5°	394.9	394.1	394.9	395.7	395.9	393.3	389.8	388.1	388.1	388.1	388.1
175°	393.0	393.0	393.0	393.0	393.0	391.4	389.2	388.1	388.6	389.6	390.4
177.5°	391.4	390.4	391.4	392.2	392.5	391.2	389.5	388.6	389.0	389.8	390.4
180°	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4



TEST NUMBER: P933826

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1880.8	1870.3	1870.3	1852.7	1845.7	1840.4	1831.7	1805.4	1798.4	1791.3	1801.9
5°	1896.6	1877.3	1863.3	1831.7	1805.4	1794.8	1761.5	1698.4	1656.3	1624.7	1607.2
7.5°	1900.1	1875.6	1849.2	1800.1	1736.9	1708.8	1607.2	1491.4	1459.7	1431.7	1414.1
10°	1896.6	1868.5	1831.7	1758.0	1608.9	1559.7	1458.0	1382.5	1363.3	1358.0	1363.3
12.5°	1884.3	1858.0	1807.1	1684.3	1475.6	1442.2	1382.5	1338.7	1335.2	1344.0	1391.3
15°	1863.3	1838.7	1779.0	1586.1	1401.9	1377.3	1335.2	1319.4	1338.7	1400.1	1542.2
17.5°	1842.3	1814.2	1740.5	1489.6	1345.7	1328.2	1298.3	1329.9	1438.7	1521.2	1568.5
20°	1814.2	1780.8	1696.6	1419.4	1305.3	1289.6	1275.5	1417.7	1500.1	1529.9	1556.2
22.5°	1780.8	1745.7	1637.0	1370.2	1263.2	1250.9	1259.7	1466.8	1500.1	1521.2	1543.9
25°	1736.9	1707.1	1566.8	1331.7	1229.9	1215.9	1249.2	1461.5	1480.8	1486.0	1531.6
27.5°	1696.6	1658.0	1493.1	1296.5	1189.5	1184.3	1258.0	1438.7	1452.7	1458.0	1507.1
30°	1647.4	1589.5	1410.6	1259.7	1147.4	1145.7	1259.7	1410.6	1407.1	1421.2	1470.2
32.5°	1596.6	1487.8	1317.6	1214.1	1107.0	1105.3	1247.4	1368.5	1365.0	1384.3	1421.2
35°	1549.3	1408.9	1191.3	1161.5	1056.2	1058.0	1217.6	1319.4	1321.1	1338.7	1361.5
37.5°	1500.1	1340.4	1052.7	1103.6	1007.1	1007.1	1177.2	1273.8	1270.3	1275.5	1307.1
40°	1442.2	1233.4	929.8	1028.1	961.5	956.2	1128.2	1224.6	1212.4	1210.6	1254.4
42.5°	1380.8	1115.9	838.6	928.1	908.8	901.8	1068.5	1165.0	1142.2	1147.4	1203.6
45°	1314.2	1084.3	768.4	784.2	854.4	849.2	1003.5	1096.6	1080.8	1094.8	1152.7
47.5°	1247.4	1021.2	745.7	650.9	796.5	794.8	931.6	1029.9	1021.2	1035.2	1096.6
50°	1156.2	951.0	743.9	557.9	731.6	738.6	845.7	965.0	965.0	977.3	1042.2
52.5°	1038.7	865.0	675.5	505.3	656.2	677.2	770.2	908.8	912.3	924.6	982.5
55°	931.6	775.5	626.4	465.0	566.7	612.3	696.5	850.9	857.9	870.2	922.9
57.5°	833.4	645.7	615.8	417.5	484.2	528.1	631.6	794.8	798.3	808.8	859.7
60°	728.1	466.7	565.0	366.7	412.3	445.6	572.0	728.1	740.4	747.4	791.3
62.5°	608.8	338.6	512.3	331.6	377.2	384.2	522.9	664.9	680.7	686.0	712.4
65°	433.4	284.2	435.1	301.8	340.4	342.1	470.2	600.0	614.1	622.8	642.2
67.5°	293.0	231.6	331.6	273.7	312.3	314.0	419.4	524.6	543.9	551.0	563.2
70°	203.5	154.4	245.7	243.9	280.7	284.2	364.9	456.2	473.7	479.0	486.0
72.5°	149.1	124.5	203.5	219.3	247.4	250.9	308.8	379.0	396.5	401.7	405.3
75°	114.1	131.6	164.9	191.2	210.5	212.3	252.6	308.8	321.1	324.6	326.3
77.5°	91.2	122.8	121.0	154.4	172.0	168.4	198.3	238.6	249.1	249.1	249.1
80°	68.5	96.5	91.2	110.6	126.4	122.8	142.1	170.2	173.7	177.2	175.5
82.5°	50.8	61.4	61.4	70.2	84.2	80.8	94.7	110.6	110.6	110.6	114.1
85°	31.6	35.1	28.1	36.9	47.4	45.6	52.7	59.6	61.4	61.4	57.9
87.5°	19.3	15.8	8.8	14.0	21.0	21.0	24.6	26.3	24.6	24.6	24.6
90°	6.8	4.7	2.6	4.7	6.8	7.3	11.5	17.1	19.9	17.7	13.3
92.5°	46.1	28.3	10.5	28.3	46.1	50.6	71.1	98.5	112.1	98.3	70.5
95°	90.3	57.7	25.1	57.7	90.3	98.5	174.9	276.9	327.8	292.5	221.9
97.5°	101.1	72.3	43.5	72.3	101.1	108.2	235.6	405.6	490.5	468.2	423.6
100°	109.8	83.7	57.6	83.7	109.8	116.3	257.8	446.3	540.6	542.2	545.5
102.5°	118.3	94.0	69.7	94.0	118.3	124.4	267.9	459.1	554.7	583.1	639.9
105°	131.3	110.7	90.2	110.7	131.3	136.5	275.4	460.5	553.1	616.8	744.2
107.5°	149.6	130.3	111.1	130.3	149.6	154.4	276.8	440.0	521.7	610.5	788.2
110°	159.9	142.6	125.2	142.6	159.9	164.3	274.7	421.9	495.5	594.8	793.5



TEST NUMBER: P933826

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	172.2	155.7	139.2	155.7	172.2	176.3	274.8	406.0	471.7	573.4	776.6
115°	190.6	175.4	160.1	175.4	190.6	194.5	277.3	387.8	443.1	541.0	736.9
117.5°	208.5	194.6	180.8	194.6	208.5	212.0	282.5	376.5	423.5	511.9	688.6
120°	219.0	205.9	192.8	205.9	219.0	222.2	286.6	372.5	415.5	496.3	657.9
122.5°	230.9	217.8	204.7	217.8	230.9	234.2	292.7	370.5	409.5	482.2	627.7
125°	246.8	234.8	222.7	234.8	246.8	249.8	300.9	369.0	403.0	464.7	588.3
127.5°	261.6	249.5	237.4	249.5	261.6	264.7	309.0	368.0	397.5	450.5	556.6
130°	271.4	258.3	245.2	258.3	271.4	274.6	314.9	368.5	395.4	442.6	537.1
132.5°	279.5	266.4	253.4	266.4	279.5	282.7	319.7	369.0	393.5	435.8	520.4
135°	289.2	277.3	265.4	277.3	289.2	292.1	324.9	368.6	390.4	425.8	496.6
137.5°	301.2	289.5	277.7	289.5	301.2	304.2	332.8	370.9	389.9	419.8	479.6
140°	309.7	298.8	287.9	298.8	309.7	312.4	337.6	371.2	388.1	413.9	465.6
142.5°	315.9	305.8	295.8	305.8	315.9	318.4	341.6	372.5	388.1	410.7	456.2
145°	325.4	316.6	307.9	316.6	325.4	327.5	346.8	372.5	385.4	404.0	441.2
147.5°	337.0	328.4	319.9	328.4	337.0	339.0	354.5	375.1	385.4	400.1	429.3
150°	343.1	335.5	327.8	335.5	343.1	345.1	358.5	376.5	385.4	397.8	422.5
152.5°	347.5	341.8	335.9	341.8	347.5	349.0	361.1	377.3	385.4	396.0	417.1
155°	356.6	352.2	347.9	352.2	356.6	357.6	366.9	379.2	385.4	393.8	410.6
157.5°	365.3	361.0	356.8	361.0	365.3	366.3	372.7	381.2	385.4	392.0	405.0
160°	369.5	366.2	362.9	366.2	369.5	370.3	375.3	382.0	385.4	391.0	402.2
162.5°	373.8	371.4	369.0	371.4	373.8	374.5	378.1	383.0	385.4	390.1	399.6
165°	379.9	377.7	375.5	377.7	379.9	380.5	382.1	384.3	385.4	388.8	395.6
167.5°	383.6	382.6	381.5	382.6	383.6	383.9	385.3	387.1	388.1	390.2	394.7
170°	387.5	386.5	385.4	386.5	387.5	387.8	387.9	388.0	388.1	390.2	394.7
172.5°	388.0	387.8	387.5	387.8	388.0	388.1	388.1	388.1	388.1	389.8	393.3
175°	390.4	390.4	390.4	390.4	390.4	390.4	389.6	388.6	388.1	389.2	391.4
177.5°	390.4	390.4	390.4	390.4	390.4	390.4	389.8	389.0	388.6	389.5	391.2
180°	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4



TEST NUMBER: P933826

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1789.6	1784.4	1791.3	1772.1	1791.3	1784.4	1789.6	1801.9	1791.3	1798.4	1805.4
5°	1570.3	1561.5	1533.5	1510.6	1533.5	1561.5	1570.3	1607.2	1624.7	1656.3	1698.4
7.5°	1403.6	1396.6	1389.6	1375.5	1389.6	1396.6	1403.6	1414.1	1431.7	1459.7	1491.4
10°	1366.7	1368.5	1379.0	1377.3	1379.0	1368.5	1366.7	1363.3	1358.0	1363.3	1382.5
12.5°	1461.5	1477.3	1535.2	1531.6	1535.2	1477.3	1461.5	1391.3	1344.0	1335.2	1338.7
15°	1570.3	1575.5	1587.8	1589.5	1587.8	1575.5	1570.3	1542.2	1400.1	1338.7	1319.4
17.5°	1580.8	1582.6	1591.3	1591.3	1591.3	1582.6	1580.8	1568.5	1521.2	1438.7	1329.9
20°	1572.0	1575.5	1593.1	1596.6	1593.1	1575.5	1572.0	1556.2	1529.9	1500.1	1417.7
22.5°	1568.5	1575.5	1589.5	1587.8	1589.5	1575.5	1568.5	1543.9	1521.2	1500.1	1466.8
25°	1551.0	1551.0	1552.7	1554.5	1552.7	1551.0	1551.0	1531.6	1486.0	1480.8	1461.5
27.5°	1514.1	1517.6	1528.2	1526.4	1528.2	1517.6	1514.1	1507.1	1458.0	1452.7	1438.7
30°	1480.8	1477.3	1468.5	1461.5	1468.5	1477.3	1480.8	1470.2	1421.2	1407.1	1410.6
32.5°	1424.6	1415.8	1407.1	1401.9	1407.1	1415.8	1424.6	1421.2	1384.3	1365.0	1368.5
35°	1358.0	1359.8	1358.0	1352.7	1358.0	1359.8	1358.0	1361.5	1338.7	1321.1	1319.4
37.5°	1310.6	1314.2	1312.3	1305.3	1312.3	1314.2	1310.6	1307.1	1275.5	1270.3	1273.8
40°	1261.5	1263.2	1261.5	1256.3	1261.5	1263.2	1261.5	1254.4	1210.6	1212.4	1224.6
42.5°	1214.1	1212.4	1207.1	1203.6	1207.1	1212.4	1214.1	1203.6	1147.4	1142.2	1165.0
45°	1159.7	1161.5	1150.9	1145.7	1150.9	1161.5	1159.7	1152.7	1094.8	1080.8	1096.6
47.5°	1105.3	1105.3	1096.6	1091.3	1096.6	1105.3	1105.3	1096.6	1035.2	1021.2	1029.9
50°	1047.4	1045.7	1033.4	1031.6	1033.4	1045.7	1047.4	1042.2	977.3	965.0	965.0
52.5°	980.8	980.8	982.5	986.0	982.5	980.8	980.8	982.5	924.6	912.3	908.8
55°	922.9	924.6	936.9	940.4	936.9	924.6	922.9	922.9	870.2	857.9	850.9
57.5°	863.2	863.2	871.9	871.9	871.9	863.2	863.2	859.7	808.8	798.3	794.8
60°	794.8	798.3	805.3	803.6	805.3	798.3	794.8	791.3	747.4	740.4	728.1
62.5°	722.8	726.4	728.1	724.6	728.1	726.4	722.8	712.4	686.0	680.7	664.9
65°	647.4	650.9	652.6	649.1	652.6	650.9	647.4	642.2	622.8	614.1	600.0
67.5°	570.2	568.5	566.7	573.7	566.7	568.5	570.2	563.2	551.0	543.9	524.6
70°	491.2	491.2	489.5	493.0	489.5	491.2	491.2	486.0	479.0	473.7	456.2
72.5°	407.1	405.3	412.3	407.1	412.3	405.3	407.1	405.3	401.7	396.5	379.0
75°	324.6	328.1	324.6	329.8	324.6	328.1	324.6	326.3	324.6	321.1	308.8
77.5°	247.4	250.9	247.4	247.4	247.4	250.9	247.4	249.1	249.1	249.1	238.6
80°	175.5	173.7	173.7	172.0	173.7	173.7	175.5	175.5	177.2	173.7	170.2
82.5°	112.3	110.6	110.6	114.1	110.6	110.6	112.3	114.1	110.6	110.6	110.6
85°	61.4	63.1	59.6	59.6	59.6	63.1	61.4	57.9	61.4	61.4	59.6
87.5°	22.8	21.0	21.0	21.0	21.0	21.0	22.8	24.6	24.6	24.6	26.3
90°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	13.3	17.7	19.9	17.1
92.5°	49.8	47.8	39.9	32.0	39.9	47.8	49.8	70.5	98.3	112.1	98.5
95°	169.0	163.0	139.0	115.0	139.0	163.0	169.0	221.9	292.5	327.8	276.9
97.5°	390.1	378.7	333.1	287.4	333.1	378.7	390.1	423.6	468.2	490.5	405.6
100°	547.9	534.3	480.0	425.6	480.0	534.3	547.9	545.5	542.2	540.6	446.3
102.5°	682.5	670.9	624.3	577.7	624.3	670.9	682.5	639.9	583.1	554.7	459.1
105°	839.8	833.5	808.5	783.4	808.5	833.5	839.8	744.2	616.8	553.1	460.5
107.5°	921.6	923.0	929.2	935.2	929.2	923.0	921.6	788.2	610.5	521.7	440.0
110°	942.5	949.0	975.1	1001.2	975.1	949.0	942.5	793.5	594.8	495.5	421.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	929.2	939.2	979.2	1019.2	979.2	939.2	929.2	776.6	573.4	471.7	406.0
115°	883.8	897.7	953.2	1008.8	953.2	897.7	883.8	736.9	541.0	443.1	387.8
117.5°	821.2	836.6	898.2	959.8	898.2	836.6	821.2	688.6	511.9	423.5	376.5
120°	779.0	794.0	853.8	913.6	853.8	794.0	779.0	657.9	496.3	415.5	372.5
122.5°	736.8	751.5	810.6	869.7	810.6	751.5	736.8	627.7	482.2	409.5	370.5
125°	681.0	694.6	748.9	803.3	748.9	694.6	681.0	588.3	464.7	403.0	369.0
127.5°	636.1	647.7	693.5	739.4	693.5	647.7	636.1	556.6	450.5	397.5	368.0
130°	607.9	618.5	660.9	703.3	660.9	618.5	607.9	537.1	442.6	395.4	368.5
132.5°	583.8	593.3	631.3	669.2	631.3	593.3	583.8	520.4	435.8	393.5	369.0
135°	549.7	557.9	590.6	623.3	590.6	557.9	549.7	496.6	425.8	390.4	368.6
137.5°	524.5	531.2	558.0	584.9	558.0	531.2	524.5	479.6	419.8	389.9	370.9
140°	504.4	510.7	535.7	560.7	535.7	510.7	504.4	465.6	413.9	388.1	371.2
142.5°	490.3	495.7	517.2	538.7	517.2	495.7	490.3	456.2	410.7	388.1	372.5
145°	469.0	473.1	489.4	505.7	489.4	473.1	469.0	441.2	404.0	385.4	372.5
147.5°	451.2	454.6	468.1	481.6	468.1	454.6	451.2	429.3	400.1	385.4	375.1
150°	441.0	443.7	454.7	465.6	454.7	443.7	441.0	422.5	397.8	385.4	376.5
152.5°	432.9	435.0	443.2	451.5	443.2	435.0	432.9	417.1	396.0	385.4	377.3
155°	423.2	424.6	430.0	435.5	430.0	424.6	423.2	410.6	393.8	385.4	379.2
157.5°	414.7	415.7	419.6	423.5	419.6	415.7	414.7	405.0	392.0	385.4	381.2
160°	410.6	411.1	413.3	415.5	413.3	411.1	410.6	402.2	391.0	385.4	382.0
162.5°	406.6	407.2	409.2	411.3	409.2	407.2	406.6	399.6	390.1	385.4	383.0
165°	400.6	401.1	403.4	405.6	403.4	401.1	400.6	395.6	388.8	385.4	384.3
167.5°	398.0	398.3	399.1	400.1	399.1	398.3	398.0	394.7	390.2	388.1	387.1
170°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	394.7	390.2	388.1	388.0
172.5°	395.9	395.7	394.9	394.1	394.9	395.7	395.9	393.3	389.8	388.1	388.1
175°	393.0	393.0	393.0	393.0	393.0	393.0	393.0	391.4	389.2	388.1	388.6
177.5°	392.5	392.2	391.4	390.4	391.4	392.2	392.5	391.2	389.5	388.6	389.0
180°	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1831.7	1840.4	1845.7	1852.7	1870.3
5°	1761.5	1794.8	1805.4	1831.7	1863.3
7.5°	1607.2	1708.8	1736.9	1800.1	1849.2
10°	1458.0	1559.7	1608.9	1758.0	1831.7
12.5°	1382.5	1442.2	1475.6	1684.3	1807.1
15°	1335.2	1377.3	1401.9	1586.1	1779.0
17.5°	1298.3	1328.2	1345.7	1489.6	1740.5
20°	1275.5	1289.6	1305.3	1419.4	1696.6
22.5°	1259.7	1250.9	1263.2	1370.2	1637.0
25°	1249.2	1215.9	1229.9	1331.7	1566.8
27.5°	1258.0	1184.3	1189.5	1296.5	1493.1
30°	1259.7	1145.7	1147.4	1259.7	1410.6
32.5°	1247.4	1105.3	1107.0	1214.1	1317.6
35°	1217.6	1058.0	1056.2	1161.5	1191.3
37.5°	1177.2	1007.1	1007.1	1103.6	1052.7
40°	1128.2	956.2	961.5	1028.1	929.8
42.5°	1068.5	901.8	908.8	928.1	838.6
45°	1003.5	849.2	854.4	784.2	768.4
47.5°	931.6	794.8	796.5	650.9	745.7
50°	845.7	738.6	731.6	557.9	743.9
52.5°	770.2	677.2	656.2	505.3	675.5
55°	696.5	612.3	566.7	465.0	626.4
57.5°	631.6	528.1	484.2	417.5	615.8
60°	572.0	445.6	412.3	366.7	565.0
62.5°	522.9	384.2	377.2	331.6	512.3
65°	470.2	342.1	340.4	301.8	435.1
67.5°	419.4	314.0	312.3	273.7	331.6
70°	364.9	284.2	280.7	243.9	245.7
72.5°	308.8	250.9	247.4	219.3	203.5
75°	252.6	212.3	210.5	191.2	164.9
77.5°	198.3	168.4	172.0	154.4	121.0
80°	142.1	122.8	126.4	110.6	91.2
82.5°	94.7	80.8	84.2	70.2	61.4
85°	52.7	45.6	47.4	36.9	28.1
87.5°	24.6	21.0	21.0	14.0	8.8
90°	11.5	7.3	6.8	4.7	2.6
92.5°	71.1	50.6	46.1	28.3	10.5
95°	174.9	98.5	90.3	57.7	25.1
97.5°	235.6	108.2	101.1	72.3	43.5
100°	257.8	116.3	109.8	83.7	57.6
102.5°	267.9	124.4	118.3	94.0	69.7
105°	275.4	136.5	131.3	110.7	90.2
107.5°	276.8	154.4	149.6	130.3	111.1
110°	274.7	164.3	159.9	142.6	125.2



TEST NUMBER: P933826

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	274.8	176.3	172.2	155.7	139.2
115°	277.3	194.5	190.6	175.4	160.1
117.5°	282.5	212.0	208.5	194.6	180.8
120°	286.6	222.2	219.0	205.9	192.8
122.5°	292.7	234.2	230.9	217.8	204.7
125°	300.9	249.8	246.8	234.8	222.7
127.5°	309.0	264.7	261.6	249.5	237.4
130°	314.9	274.6	271.4	258.3	245.2
132.5°	319.7	282.7	279.5	266.4	253.4
135°	324.9	292.1	289.2	277.3	265.4
137.5°	332.8	304.2	301.2	289.5	277.7
140°	337.6	312.4	309.7	298.8	287.9
142.5°	341.6	318.4	315.9	305.8	295.8
145°	346.8	327.5	325.4	316.6	307.9
147.5°	354.5	339.0	337.0	328.4	319.9
150°	358.5	345.1	343.1	335.5	327.8
152.5°	361.1	349.0	347.5	341.8	335.9
155°	366.9	357.6	356.6	352.2	347.9
157.5°	372.7	366.3	365.3	361.0	356.8
160°	375.3	370.3	369.5	366.2	362.9
162.5°	378.1	374.5	373.8	371.4	369.0
165°	382.1	380.5	379.9	377.7	375.5
167.5°	385.3	383.9	383.6	382.6	381.5
170°	387.9	387.8	387.5	386.5	385.4
172.5°	388.1	388.1	388.0	387.8	387.5
175°	389.6	390.4	390.4	390.4	390.4
177.5°	389.8	390.4	390.4	390.4	390.4
180°	390.4	390.4	390.4	390.4	390.4



TEST NUMBER: P933826
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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	12.20	13.22	13.01	14.06	15.09	15.05	16.07	15.86	16.91	17.94
	3H	12.69	13.61	13.52	14.45	15.51	16.42	17.33	17.24	18.18	19.24
	4H	12.89	13.75	13.73	14.61	15.68	16.87	17.74	17.72	18.59	19.66
	6H	13.02	13.81	13.87	14.67	15.76	17.17	17.97	18.03	18.83	19.91
	8H	13.02	13.78	13.88	14.66	15.74	17.25	18.01	18.12	18.89	19.97
	12H	13.00	13.72	13.87	14.59	15.70	17.30	18.03	18.17	18.90	20.01
4H	2H	13.26	14.12	14.10	14.97	16.04	15.48	16.35	16.33	17.20	18.27
	3H	14.30	15.02	15.16	15.91	16.99	17.01	17.73	17.87	18.61	19.70
	4H	14.58	15.24	15.45	16.12	17.23	17.55	18.20	18.42	19.08	20.20
	6H	14.72	15.28	15.60	16.19	17.31	17.93	18.49	18.81	19.40	20.51
	8H	14.73	15.26	15.62	16.16	17.29	18.04	18.57	18.93	19.47	20.60
	12H	14.70	15.18	15.61	16.10	17.23	18.11	18.59	19.02	19.50	20.64
8H	4H	15.05	15.58	15.94	16.48	17.61	17.68	18.21	18.57	19.11	20.24
	6H	15.32	15.76	16.24	16.70	17.83	18.13	18.57	19.05	19.51	20.64
	8H	15.37	15.75	16.29	16.69	17.83	18.29	18.68	19.22	19.61	20.76
	12H	15.36	15.70	16.29	16.63	17.82	18.40	18.74	19.33	19.67	20.86
12H	4H	15.07	15.55	15.98	16.46	17.60	17.66	18.13	18.56	19.05	20.19
	6H	15.38	15.77	16.31	16.71	17.85	18.13	18.52	19.06	19.45	20.60
	8H	15.46	15.80	16.39	16.73	17.92	18.30	18.65	19.23	19.57	20.77