

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: P933869

Luminaire Tested: SQ4-FA-025U-050D-935-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933869
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-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

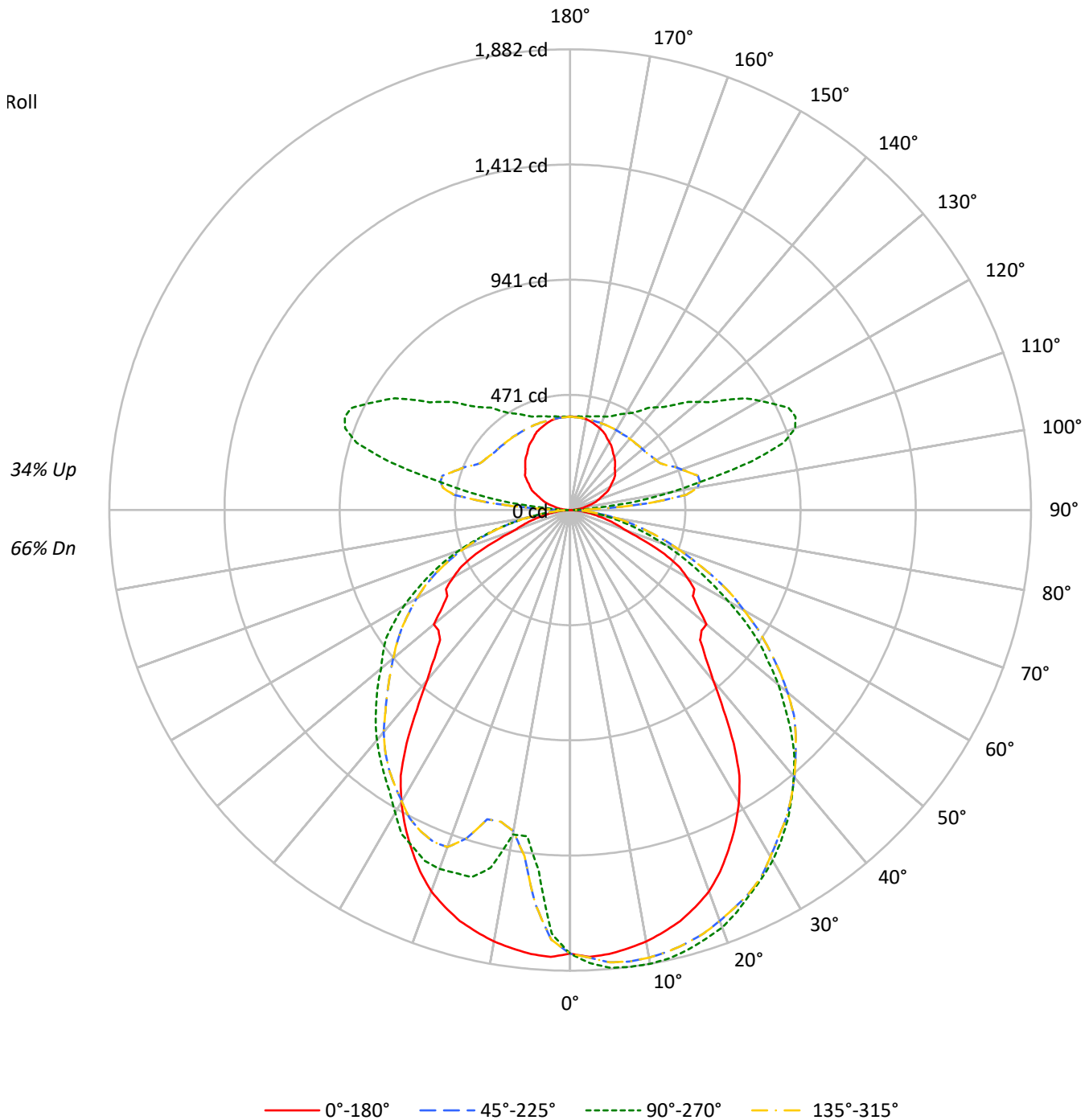
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7172.1 lumens
Efficiency: N/A
Efficacy: 108.7 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				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	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°	5604	5604	5604	5604
5°	5648	5657	5648	4448
10°	5613	5573	5613	3984
15°	5554	5452	5554	4552
20°	5440	5309	5440	4562
25°	5204	5100	5204	4465
30°	4899	4927	4899	4253
35°	4369	4708	4369	4020
40°	3643	4450	3643	3844
45°	3257	4148	3257	3641
50°	3463	3788	3463	3437
55°	3261	3400	3261	3320
60°	3366	2888	3366	3041
65°	3057	2387	3057	2668
70°	2122	1903	2122	2237
75°	1867	1406	1867	1684
80°	1515	930	1515	1012
85°	888	493	888	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4989 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	2.3
10°-20°	464.4	6.5
20°-30°	717.8	10.0
30°-40°	857.0	11.9
40°-50°	862.0	12.0
50°-60°	750.0	10.5
60°-70°	531.8	7.4
70°-80°	281.3	3.9
80°-90°	71.5	1.0
90°-100°	185.9	2.6
100°-110°	488.8	6.8
110°-120°	506.9	7.1
120°-130°	406.6	5.7
130°-140°	319.0	4.4
140°-150°	244.9	3.4
150°-160°	176.3	2.5
160°-170°	107.9	1.5
170°-180°	36.5	0.5
0°-30°	1345.8	18.8
0°-40°	2202.7	30.7
0°-60°	3814.7	53.2
0°-90°	4699.4	65.5
90°-120°	1181.6	16.5
90°-150°	2152.0	30.0
90°-180°	2473.0	34.5
0°-180°	7172.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1812	1812	1812	1812	1812	
5°	1820	1877	1820	1476	1820	173
15°	1738	1860	1738	1553	1738	489
25°	1531	1735	1531	1519	1531	703
35°	1164	1548	1164	1322	1164	720
45°	751	1275	751	1119	751	601
55°	612	941	612	919	612	562
65°	425	567	425	634	425	406
75°	161	269	161	322	161	169
85°	27	69	27	58	27	37
90°	3	10	3	10	3	3
95°	24	112	24	112	24	27
105°	88	765	88	765	88	93
115°	156	986	156	986	156	154
125°	218	785	218	785	218	193
135°	259	609	259	609	259	201
145°	301	494	301	494	301	188
155°	340	426	340	426	340	156
165°	367	396	367	396	367	104
175°	381	384	381	384	381	36
180°	381	381	381	381	381	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1827.3	1827.3	1837.6	1841.0	1841.0	1835.9	1830.8	1835.9	1851.3	1856.4	1854.7
5°	1820.5	1834.2	1853.0	1856.4	1859.9	1858.2	1854.7	1858.2	1875.3	1878.7	1880.4
7.5°	1806.8	1832.5	1856.4	1861.6	1866.7	1861.6	1859.9	1863.3	1880.4	1883.9	1883.9
10°	1789.6	1825.6	1853.0	1856.4	1861.6	1856.4	1856.4	1863.3	1880.4	1883.9	1885.6
12.5°	1765.6	1815.4	1841.0	1844.5	1851.3	1849.6	1847.9	1854.7	1871.9	1875.3	1875.3
15°	1738.2	1796.4	1820.5	1823.9	1835.9	1832.5	1832.5	1839.3	1858.2	1863.3	1861.6
17.5°	1700.5	1772.5	1799.9	1805.0	1813.7	1811.9	1813.7	1820.5	1837.6	1841.0	1842.8
20°	1657.7	1739.9	1772.5	1777.6	1786.2	1786.2	1786.2	1794.7	1811.9	1818.8	1818.8
22.5°	1599.4	1705.6	1739.9	1743.4	1753.6	1753.6	1757.1	1769.0	1784.4	1786.2	1786.2
25°	1530.8	1667.9	1697.0	1707.3	1717.6	1722.7	1727.9	1734.8	1739.9	1738.2	1739.9
27.5°	1458.8	1619.9	1657.7	1664.5	1678.2	1683.3	1690.2	1691.9	1693.6	1698.7	1695.3
30°	1378.2	1553.0	1609.6	1616.5	1638.7	1642.2	1635.3	1638.7	1647.3	1650.8	1654.2
32.5°	1287.4	1453.6	1559.9	1575.3	1595.9	1585.7	1583.9	1589.1	1602.8	1602.8	1606.2
35°	1163.9	1376.5	1513.7	1527.4	1542.8	1530.8	1537.6	1539.3	1547.9	1553.0	1551.3
37.5°	1028.5	1309.6	1465.6	1475.9	1487.9	1472.5	1482.7	1487.9	1494.7	1491.3	1491.3
40°	908.5	1205.1	1409.0	1415.9	1426.2	1414.2	1424.5	1428.0	1431.4	1428.0	1426.2
42.5°	819.4	1090.2	1349.1	1357.7	1350.8	1359.4	1362.8	1369.7	1364.5	1357.7	1357.7
45°	750.8	1059.4	1284.0	1294.2	1284.0	1297.7	1302.8	1302.8	1287.4	1284.0	1282.2
47.5°	728.5	997.7	1218.8	1218.8	1213.7	1230.8	1239.3	1227.4	1212.0	1206.8	1206.8
50°	726.8	929.1	1129.7	1122.8	1146.8	1167.3	1158.8	1146.8	1134.8	1115.9	1115.9
52.5°	660.0	845.1	1014.8	1040.5	1078.2	1090.2	1076.5	1064.5	1044.0	1035.4	1028.5
55°	612.0	757.7	910.2	961.7	1001.1	1016.5	990.8	978.8	947.9	942.8	939.4
57.5°	601.7	630.8	814.3	879.3	927.4	925.7	910.2	888.0	862.2	857.1	855.4
60°	552.0	456.0	711.4	788.5	838.2	833.1	819.4	798.8	774.8	771.4	768.0
62.5°	500.6	330.8	594.8	682.3	752.5	750.8	738.9	707.9	690.8	682.3	675.4
65°	425.1	277.7	423.4	567.4	668.6	672.0	646.2	624.0	605.1	594.8	593.1
67.5°	324.0	226.3	286.3	473.1	588.0	584.6	552.0	541.7	517.7	512.6	502.3
70°	240.0	150.9	198.9	384.0	509.2	500.6	474.8	462.8	440.6	428.6	421.7
72.5°	198.9	121.7	145.7	298.3	428.6	418.2	396.0	382.3	363.4	353.2	346.3
75°	161.1	128.6	111.4	221.1	348.0	341.1	320.5	306.8	291.4	277.7	279.4
77.5°	118.3	120.0	89.1	162.8	276.0	265.7	253.7	236.6	229.7	216.0	216.0
80°	89.1	94.3	66.9	111.4	198.9	198.9	188.5	176.5	164.5	157.7	157.7
82.5°	60.0	60.0	49.7	70.3	135.4	130.3	123.5	120.0	113.1	109.7	109.7
85°	27.4	34.3	30.8	42.9	73.7	77.1	77.1	73.7	72.0	68.6	70.3
87.5°	8.6	15.4	18.8	24.0	37.7	39.4	41.2	41.2	41.2	42.9	42.9
90°	2.6	4.6	6.6	7.2	11.2	16.7	19.4	17.3	13.0	9.7	9.7
92.5°	10.2	27.6	45.1	49.4	69.4	96.2	109.6	96.0	68.9	48.6	46.7
95°	24.5	56.4	88.3	96.3	170.9	270.5	320.3	285.8	216.8	165.1	159.2
97.5°	42.5	70.6	98.7	105.7	230.2	396.3	479.2	457.4	413.9	381.2	370.0
100°	56.3	81.8	107.3	113.7	251.9	436.1	528.2	529.8	532.9	535.3	522.0
102.5°	68.1	91.8	115.6	121.6	261.7	448.6	542.0	569.7	625.2	666.9	655.4
105°	88.1	108.2	128.3	133.3	269.1	449.9	540.4	602.6	727.1	820.5	814.3
107.5°	108.5	127.3	146.1	150.8	270.4	429.9	509.7	596.5	770.1	900.4	901.8
110°	122.3	139.3	156.3	160.5	268.4	412.2	484.1	581.1	775.2	920.8	927.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	136.0	152.1	168.3	172.3	268.5	396.7	460.8	560.2	758.8	907.8	917.6
115°	156.4	171.3	186.2	190.0	270.9	378.9	432.9	528.6	719.9	863.5	877.0
117.5°	176.6	190.2	203.7	207.1	276.0	367.8	413.7	500.1	672.8	802.3	817.4
120°	188.4	201.2	213.9	217.1	280.1	364.0	406.0	484.9	642.7	761.1	775.7
122.5°	200.0	212.8	225.6	228.8	285.9	362.0	400.1	471.2	613.3	719.9	734.3
125°	217.6	229.4	241.1	244.0	293.9	360.5	393.7	454.0	574.8	665.3	678.6
127.5°	231.9	243.8	255.6	258.6	301.9	359.5	388.3	440.1	543.8	621.5	632.8
130°	239.6	252.4	265.1	268.3	307.7	360.1	386.3	432.5	524.7	593.9	604.3
132.5°	247.6	260.3	273.1	276.2	312.3	360.5	384.5	425.8	508.5	570.4	579.7
135°	259.3	270.9	282.5	285.4	317.5	360.1	381.4	416.0	485.2	537.1	545.1
137.5°	271.4	282.9	294.3	297.2	325.1	362.4	380.9	410.2	468.6	512.5	519.0
140°	281.3	291.9	302.5	305.2	329.8	362.7	379.1	404.4	454.9	492.8	498.9
142.5°	289.0	298.8	308.6	311.1	333.7	364.0	379.1	401.3	445.7	479.0	484.3
145°	300.8	309.4	317.9	320.0	338.8	364.0	376.6	394.7	431.0	458.2	462.2
147.5°	312.6	320.9	329.2	331.3	346.3	366.5	376.6	390.9	419.4	440.8	444.1
150°	320.3	327.8	335.3	337.1	350.3	367.8	376.6	388.7	412.8	430.9	433.5
152.5°	328.2	333.9	339.5	341.0	352.8	368.7	376.6	386.9	407.5	422.9	425.0
155°	339.9	344.1	348.4	349.4	358.4	370.5	376.6	384.8	401.2	413.5	414.8
157.5°	348.6	352.7	356.9	357.9	364.1	372.4	376.6	383.0	395.7	405.2	406.1
160°	354.6	357.8	361.0	361.8	366.7	373.3	376.6	382.0	392.9	401.1	401.6
162.5°	360.5	362.9	365.3	365.8	369.4	374.2	376.6	381.2	390.4	397.3	397.8
165°	366.9	369.0	371.2	371.7	373.3	375.5	376.6	379.9	386.5	391.4	391.9
167.5°	372.8	373.8	374.8	375.1	376.4	378.2	379.1	381.3	385.6	388.9	389.1
170°	376.6	377.6	378.6	378.9	379.0	379.1	379.1	381.3	385.6	388.9	388.9
172.5°	378.6	378.9	379.1	379.1	379.1	379.1	379.1	380.8	384.3	386.8	386.6
175°	381.4	381.4	381.4	381.4	380.7	379.7	379.1	380.2	382.4	384.0	384.0
177.5°	381.4	381.4	381.4	381.4	380.8	380.1	379.7	380.5	382.2	383.5	383.2
180°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1858.2	1853.0	1858.2	1854.7	1856.4	1851.3	1835.9	1830.8	1835.9	1841.0	1841.0
5°	1880.4	1877.0	1880.4	1880.4	1878.7	1875.3	1858.2	1854.7	1858.2	1859.9	1856.4
7.5°	1887.4	1882.2	1887.4	1883.9	1883.9	1880.4	1863.3	1859.9	1861.6	1866.7	1861.6
10°	1887.4	1882.2	1887.4	1885.6	1883.9	1880.4	1863.3	1856.4	1856.4	1861.6	1856.4
12.5°	1878.7	1875.3	1878.7	1875.3	1875.3	1871.9	1854.7	1847.9	1849.6	1851.3	1844.5
15°	1865.0	1859.9	1865.0	1861.6	1863.3	1858.2	1839.3	1832.5	1832.5	1835.9	1823.9
17.5°	1844.5	1837.6	1844.5	1842.8	1841.0	1837.6	1820.5	1813.7	1811.9	1813.7	1805.0
20°	1820.5	1815.4	1820.5	1818.8	1818.8	1811.9	1794.7	1786.2	1786.2	1786.2	1777.6
22.5°	1782.7	1777.6	1782.7	1786.2	1786.2	1784.4	1769.0	1757.1	1753.6	1753.6	1743.4
25°	1739.9	1734.8	1739.9	1739.9	1738.2	1739.9	1734.8	1727.9	1722.7	1717.6	1707.3
27.5°	1698.7	1695.3	1698.7	1695.3	1698.7	1693.6	1691.9	1690.2	1683.3	1678.2	1664.5
30°	1657.7	1654.2	1657.7	1654.2	1650.8	1647.3	1638.7	1635.3	1642.2	1638.7	1616.5
32.5°	1606.2	1602.8	1606.2	1606.2	1602.8	1602.8	1589.1	1583.9	1585.7	1595.9	1575.3
35°	1553.0	1547.9	1553.0	1551.3	1553.0	1547.9	1539.3	1537.6	1530.8	1542.8	1527.4
37.5°	1491.3	1486.2	1491.3	1491.3	1491.3	1494.7	1487.9	1482.7	1472.5	1487.9	1475.9
40°	1428.0	1421.1	1428.0	1426.2	1428.0	1431.4	1428.0	1424.5	1414.2	1426.2	1415.9
42.5°	1356.0	1354.2	1356.0	1357.7	1357.7	1364.5	1369.7	1362.8	1359.4	1350.8	1357.7
45°	1278.8	1275.4	1278.8	1282.2	1284.0	1287.4	1302.8	1302.8	1297.7	1284.0	1294.2
47.5°	1196.5	1187.9	1196.5	1206.8	1206.8	1212.0	1227.4	1239.3	1230.8	1213.7	1218.8
50°	1109.0	1110.8	1109.0	1115.9	1115.9	1134.8	1146.8	1158.8	1167.3	1146.8	1122.8
52.5°	1023.3	1021.6	1023.3	1028.5	1035.4	1044.0	1064.5	1076.5	1090.2	1078.2	1040.5
55°	937.6	941.1	937.6	939.4	942.8	947.9	978.8	990.8	1016.5	1001.1	961.7
57.5°	851.9	846.8	851.9	855.4	857.1	862.2	888.0	910.2	925.7	927.4	879.3
60°	752.5	745.7	752.5	768.0	771.4	774.8	798.8	819.4	833.1	838.2	788.5
62.5°	665.1	653.1	665.1	675.4	682.3	690.8	707.9	738.9	750.8	752.5	682.3
65°	572.5	567.4	572.5	593.1	594.8	605.1	624.0	646.2	672.0	668.6	567.4
67.5°	488.5	488.5	488.5	502.3	512.6	517.7	541.7	552.0	584.6	588.0	473.1
70°	411.4	409.7	411.4	421.7	428.6	440.6	462.8	474.8	500.6	509.2	384.0
72.5°	337.7	335.9	337.7	346.3	353.2	363.4	382.3	396.0	418.2	428.6	298.3
75°	272.6	269.1	272.6	279.4	277.7	291.4	306.8	320.5	341.1	348.0	221.1
77.5°	209.2	209.2	209.2	216.0	216.0	229.7	236.6	253.7	265.7	276.0	162.8
80°	156.0	154.3	156.0	157.7	157.7	164.5	176.5	188.5	198.9	198.9	111.4
82.5°	109.7	106.2	109.7	109.7	109.7	113.1	120.0	123.5	130.3	135.4	70.3
85°	68.6	68.6	68.6	70.3	68.6	72.0	73.7	77.1	77.1	73.7	42.9
87.5°	44.6	42.9	44.6	42.9	42.9	41.2	41.2	41.2	39.4	37.7	24.0
90°	9.7	9.7	9.7	9.7	9.7	13.0	17.3	19.4	16.7	11.2	7.2
92.5°	39.0	31.3	39.0	46.7	48.6	68.9	96.0	109.6	96.2	69.4	49.4
95°	135.8	112.4	135.8	159.2	165.1	216.8	285.8	320.3	270.5	170.9	96.3
97.5°	325.5	280.8	325.5	370.0	381.2	413.9	457.4	479.2	396.3	230.2	105.7
100°	468.9	415.8	468.9	522.0	535.3	532.9	529.8	528.2	436.1	251.9	113.7
102.5°	609.9	564.4	609.9	655.4	666.9	625.2	569.7	542.0	448.6	261.7	121.6
105°	789.9	765.4	789.9	814.3	820.5	727.1	602.6	540.4	449.9	269.1	133.3
107.5°	907.8	913.7	907.8	901.8	900.4	770.1	596.5	509.7	429.9	270.4	150.8
110°	952.7	978.2	952.7	927.2	920.8	775.2	581.1	484.1	412.2	268.4	160.5



TEST NUMBER: P933869

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	956.7	995.8	956.7	917.6	907.8	758.8	560.2	460.8	396.7	268.5	172.3
115°	931.3	985.6	931.3	877.0	863.5	719.9	528.6	432.9	378.9	270.9	190.0
117.5°	877.6	937.7	877.6	817.4	802.3	672.8	500.1	413.7	367.8	276.0	207.1
120°	834.2	892.6	834.2	775.7	761.1	642.7	484.9	406.0	364.0	280.1	217.1
122.5°	792.0	849.7	792.0	734.3	719.9	613.3	471.2	400.1	362.0	285.9	228.8
125°	731.7	784.9	731.7	678.6	665.3	574.8	454.0	393.7	360.5	293.9	244.0
127.5°	677.6	722.4	677.6	632.8	621.5	543.8	440.1	388.3	359.5	301.9	258.6
130°	645.7	687.1	645.7	604.3	593.9	524.7	432.5	386.3	360.1	307.7	268.3
132.5°	616.8	653.8	616.8	579.7	570.4	508.5	425.8	384.5	360.5	312.3	276.2
135°	577.1	609.0	577.1	545.1	537.1	485.2	416.0	381.4	360.1	317.5	285.4
137.5°	545.2	571.4	545.2	519.0	512.5	468.6	410.2	380.9	362.4	325.1	297.2
140°	523.4	547.8	523.4	498.9	492.8	454.9	404.4	379.1	362.7	329.8	305.2
142.5°	505.3	526.4	505.3	484.3	479.0	445.7	401.3	379.1	364.0	333.7	311.1
145°	478.1	494.1	478.1	462.2	458.2	431.0	394.7	376.6	364.0	338.8	320.0
147.5°	457.4	470.6	457.4	444.1	440.8	419.4	390.9	376.6	366.5	346.3	331.3
150°	444.2	454.9	444.2	433.5	430.9	412.8	388.7	376.6	367.8	350.3	337.1
152.5°	433.0	441.1	433.0	425.0	422.9	407.5	386.9	376.6	368.7	352.8	341.0
155°	420.1	425.5	420.1	414.8	413.5	401.2	384.8	376.6	370.5	358.4	349.4
157.5°	410.0	413.7	410.0	406.1	405.2	395.7	383.0	376.6	372.4	364.1	357.9
160°	403.8	406.0	403.8	401.6	401.1	392.9	382.0	376.6	373.3	366.7	361.8
162.5°	399.8	401.9	399.8	397.8	397.3	390.4	381.2	376.6	374.2	369.4	365.8
165°	394.1	396.3	394.1	391.9	391.4	386.5	379.9	376.6	375.5	373.3	371.7
167.5°	390.0	390.9	390.0	389.1	388.9	385.6	381.3	379.1	378.2	376.4	375.1
170°	388.9	388.9	388.9	388.9	388.9	385.6	381.3	379.1	379.1	379.0	378.9
172.5°	385.8	385.0	385.8	386.6	386.8	384.3	380.8	379.1	379.1	379.1	379.1
175°	384.0	384.0	384.0	384.0	384.0	382.4	380.2	379.1	379.7	380.7	381.4
177.5°	382.4	381.4	382.4	383.2	383.5	382.2	380.5	379.7	380.1	380.8	381.4
180°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4



TEST NUMBER: P933869

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1837.6	1827.3	1827.3	1810.2	1803.3	1798.1	1789.6	1763.9	1757.1	1750.2	1760.5
5°	1853.0	1834.2	1820.5	1789.6	1763.9	1753.6	1721.0	1659.4	1618.2	1587.4	1570.2
7.5°	1856.4	1832.5	1806.8	1758.8	1697.0	1669.6	1570.2	1457.1	1426.2	1398.8	1381.6
10°	1853.0	1825.6	1789.6	1717.6	1571.9	1523.9	1424.5	1350.8	1331.9	1326.8	1331.9
12.5°	1841.0	1815.4	1765.6	1645.6	1441.7	1409.0	1350.8	1307.9	1304.5	1313.1	1359.4
15°	1820.5	1796.4	1738.2	1549.6	1369.7	1345.6	1304.5	1289.1	1307.9	1367.9	1506.8
17.5°	1799.9	1772.5	1700.5	1455.4	1314.8	1297.7	1268.5	1299.4	1405.6	1486.2	1532.5
20°	1772.5	1739.9	1657.7	1386.8	1275.4	1259.9	1246.2	1385.1	1465.6	1494.7	1520.5
22.5°	1739.9	1705.6	1599.4	1338.7	1234.2	1222.2	1230.8	1433.1	1465.6	1486.2	1508.5
25°	1697.0	1667.9	1530.8	1301.1	1201.7	1187.9	1220.5	1428.0	1446.8	1451.9	1496.5
27.5°	1657.7	1619.9	1458.8	1266.8	1162.2	1157.1	1229.1	1405.6	1419.3	1424.5	1472.5
30°	1609.6	1553.0	1378.2	1230.8	1121.1	1119.4	1230.8	1378.2	1374.8	1388.5	1436.5
32.5°	1559.9	1453.6	1287.4	1186.2	1081.6	1079.9	1218.8	1337.0	1333.6	1352.5	1388.5
35°	1513.7	1376.5	1163.9	1134.8	1031.9	1033.6	1189.6	1289.1	1290.8	1307.9	1330.2
37.5°	1465.6	1309.6	1028.5	1078.2	984.0	984.0	1150.2	1244.5	1241.1	1246.2	1277.1
40°	1409.0	1205.1	908.5	1004.5	939.4	934.2	1102.2	1196.5	1184.5	1182.8	1225.6
42.5°	1349.1	1090.2	819.4	906.8	888.0	881.1	1044.0	1138.2	1115.9	1121.1	1175.9
45°	1284.0	1059.4	750.8	766.2	834.8	829.7	980.5	1071.4	1056.0	1069.7	1126.3
47.5°	1218.8	997.7	728.5	635.9	778.2	776.5	910.2	1006.2	997.7	1011.4	1071.4
50°	1129.7	929.1	726.8	545.1	714.8	721.6	826.3	942.8	942.8	954.8	1018.2
52.5°	1014.8	845.1	660.0	493.6	641.1	661.7	752.5	888.0	891.4	903.4	959.9
55°	910.2	757.7	612.0	454.3	553.7	598.3	680.5	831.4	838.2	850.2	901.7
57.5°	814.3	630.8	601.7	407.9	473.1	516.0	617.1	776.5	779.9	790.2	840.0
60°	711.4	456.0	552.0	358.3	402.8	435.4	558.8	711.4	723.3	730.2	773.1
62.5°	594.8	330.8	500.6	324.0	368.6	375.4	510.9	649.6	665.1	670.3	696.0
65°	423.4	277.7	425.1	294.9	332.5	334.2	459.4	586.3	600.0	608.5	627.4
67.5°	286.3	226.3	324.0	267.4	305.1	306.8	409.7	512.6	531.4	538.3	550.2
70°	198.9	150.9	240.0	238.3	274.3	277.7	356.6	445.7	462.8	468.0	474.8
72.5°	145.7	121.7	198.9	214.3	241.7	245.1	301.7	370.3	387.4	392.5	396.0
75°	111.4	128.6	161.1	186.8	205.7	207.4	246.8	301.7	313.7	317.1	318.8
77.5°	89.1	120.0	118.3	150.9	168.0	164.5	193.7	233.1	243.4	243.4	243.4
80°	66.9	94.3	89.1	108.0	123.5	120.0	138.9	166.3	169.7	173.1	171.4
82.5°	49.7	60.0	60.0	68.6	82.3	78.9	92.5	108.0	108.0	108.0	111.4
85°	30.8	34.3	27.4	36.0	46.3	44.6	51.5	58.3	60.0	60.0	56.6
87.5°	18.8	15.4	8.6	13.7	20.5	20.5	24.0	25.7	24.0	24.0	24.0
90°	6.6	4.6	2.6	4.6	6.6	7.2	11.2	16.7	19.4	17.3	13.0
92.5°	45.1	27.6	10.2	27.6	45.1	49.4	69.4	96.2	109.6	96.0	68.9
95°	88.3	56.4	24.5	56.4	88.3	96.3	170.9	270.5	320.3	285.8	216.8
97.5°	98.7	70.6	42.5	70.6	98.7	105.7	230.2	396.3	479.2	457.4	413.9
100°	107.3	81.8	56.3	81.8	107.3	113.7	251.9	436.1	528.2	529.8	532.9
102.5°	115.6	91.8	68.1	91.8	115.6	121.6	261.7	448.6	542.0	569.7	625.2
105°	128.3	108.2	88.1	108.2	128.3	133.3	269.1	449.9	540.4	602.6	727.1
107.5°	146.1	127.3	108.5	127.3	146.1	150.8	270.4	429.9	509.7	596.5	770.1
110°	156.3	139.3	122.3	139.3	156.3	160.5	268.4	412.2	484.1	581.1	775.2



TEST NUMBER: P933869

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	168.3	152.1	136.0	152.1	168.3	172.3	268.5	396.7	460.8	560.2	758.8
115°	186.2	171.3	156.4	171.3	186.2	190.0	270.9	378.9	432.9	528.6	719.9
117.5°	203.7	190.2	176.6	190.2	203.7	207.1	276.0	367.8	413.7	500.1	672.8
120°	213.9	201.2	188.4	201.2	213.9	217.1	280.1	364.0	406.0	484.9	642.7
122.5°	225.6	212.8	200.0	212.8	225.6	228.8	285.9	362.0	400.1	471.2	613.3
125°	241.1	229.4	217.6	229.4	241.1	244.0	293.9	360.5	393.7	454.0	574.8
127.5°	255.6	243.8	231.9	243.8	255.6	258.6	301.9	359.5	388.3	440.1	543.8
130°	265.1	252.4	239.6	252.4	265.1	268.3	307.7	360.1	386.3	432.5	524.7
132.5°	273.1	260.3	247.6	260.3	273.1	276.2	312.3	360.5	384.5	425.8	508.5
135°	282.5	270.9	259.3	270.9	282.5	285.4	317.5	360.1	381.4	416.0	485.2
137.5°	294.3	282.9	271.4	282.9	294.3	297.2	325.1	362.4	380.9	410.2	468.6
140°	302.5	291.9	281.3	291.9	302.5	305.2	329.8	362.7	379.1	404.4	454.9
142.5°	308.6	298.8	289.0	298.8	308.6	311.1	333.7	364.0	379.1	401.3	445.7
145°	317.9	309.4	300.8	309.4	317.9	320.0	338.8	364.0	376.6	394.7	431.0
147.5°	329.2	320.9	312.6	320.9	329.2	331.3	346.3	366.5	376.6	390.9	419.4
150°	335.3	327.8	320.3	327.8	335.3	337.1	350.3	367.8	376.6	388.7	412.8
152.5°	339.5	333.9	328.2	333.9	339.5	341.0	352.8	368.7	376.6	386.9	407.5
155°	348.4	344.1	339.9	344.1	348.4	349.4	358.4	370.5	376.6	384.8	401.2
157.5°	356.9	352.7	348.6	352.7	356.9	357.9	364.1	372.4	376.6	383.0	395.7
160°	361.0	357.8	354.6	357.8	361.0	361.8	366.7	373.3	376.6	382.0	392.9
162.5°	365.3	362.9	360.5	362.9	365.3	365.8	369.4	374.2	376.6	381.2	390.4
165°	371.2	369.0	366.9	369.0	371.2	371.7	373.3	375.5	376.6	379.9	386.5
167.5°	374.8	373.8	372.8	373.8	374.8	375.1	376.4	378.2	379.1	381.3	385.6
170°	378.6	377.6	376.6	377.6	378.6	378.9	379.0	379.1	379.1	381.3	385.6
172.5°	379.1	378.9	378.6	378.9	379.1	379.1	379.1	379.1	379.1	380.8	384.3
175°	381.4	381.4	381.4	381.4	381.4	381.4	380.7	379.7	379.1	380.2	382.4
177.5°	381.4	381.4	381.4	381.4	381.4	381.4	380.8	380.1	379.7	380.5	382.2
180°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4



TEST NUMBER: P933869
 CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1748.5	1743.4	1750.2	1731.3	1750.2	1743.4	1748.5	1760.5	1750.2	1757.1	1763.9
5°	1534.2	1525.6	1498.2	1475.9	1498.2	1525.6	1534.2	1570.2	1587.4	1618.2	1659.4
7.5°	1371.4	1364.5	1357.7	1343.9	1357.7	1364.5	1371.4	1381.6	1398.8	1426.2	1457.1
10°	1335.3	1337.0	1347.4	1345.6	1347.4	1337.0	1335.3	1331.9	1326.8	1331.9	1350.8
12.5°	1428.0	1443.4	1499.9	1496.5	1499.9	1443.4	1428.0	1359.4	1313.1	1304.5	1307.9
15°	1534.2	1539.3	1551.3	1553.0	1551.3	1539.3	1534.2	1506.8	1367.9	1307.9	1289.1
17.5°	1544.5	1546.2	1554.7	1554.7	1554.7	1546.2	1544.5	1532.5	1486.2	1405.6	1299.4
20°	1535.9	1539.3	1556.5	1559.9	1556.5	1539.3	1535.9	1520.5	1494.7	1465.6	1385.1
22.5°	1532.5	1539.3	1553.0	1551.3	1553.0	1539.3	1532.5	1508.5	1486.2	1465.6	1433.1
25°	1515.4	1515.4	1517.1	1518.8	1517.1	1515.4	1515.4	1496.5	1451.9	1446.8	1428.0
27.5°	1479.3	1482.7	1493.0	1491.3	1493.0	1482.7	1479.3	1472.5	1424.5	1419.3	1405.6
30°	1446.8	1443.4	1434.8	1428.0	1434.8	1443.4	1446.8	1436.5	1388.5	1374.8	1378.2
32.5°	1391.9	1383.3	1374.8	1369.7	1374.8	1383.3	1391.9	1388.5	1352.5	1333.6	1337.0
35°	1326.8	1328.5	1326.8	1321.6	1326.8	1328.5	1326.8	1330.2	1307.9	1290.8	1289.1
37.5°	1280.5	1284.0	1282.2	1275.4	1282.2	1284.0	1280.5	1277.1	1246.2	1241.1	1244.5
40°	1232.5	1234.2	1232.5	1227.4	1232.5	1234.2	1232.5	1225.6	1182.8	1184.5	1196.5
42.5°	1186.2	1184.5	1179.3	1175.9	1179.3	1184.5	1186.2	1175.9	1121.1	1115.9	1138.2
45°	1133.1	1134.8	1124.5	1119.4	1124.5	1134.8	1133.1	1126.3	1069.7	1056.0	1071.4
47.5°	1079.9	1079.9	1071.4	1066.2	1071.4	1079.9	1079.9	1071.4	1011.4	997.7	1006.2
50°	1023.3	1021.6	1009.6	1007.9	1009.6	1021.6	1023.3	1018.2	954.8	942.8	942.8
52.5°	958.2	958.2	959.9	963.4	959.9	958.2	958.2	959.9	903.4	891.4	888.0
55°	901.7	903.4	915.4	918.8	915.4	903.4	901.7	901.7	850.2	838.2	831.4
57.5°	843.4	843.4	851.9	851.9	851.9	843.4	843.4	840.0	790.2	779.9	776.5
60°	776.5	779.9	786.8	785.1	786.8	779.9	776.5	773.1	730.2	723.3	711.4
62.5°	706.2	709.7	711.4	707.9	711.4	709.7	706.2	696.0	670.3	665.1	649.6
65°	632.5	635.9	637.6	634.2	637.6	635.9	632.5	627.4	608.5	600.0	586.3
67.5°	557.1	555.4	553.7	560.5	553.7	555.4	557.1	550.2	538.3	531.4	512.6
70°	479.9	479.9	478.2	481.7	478.2	479.9	479.9	474.8	468.0	462.8	445.7
72.5°	397.7	396.0	402.8	397.7	402.8	396.0	397.7	396.0	392.5	387.4	370.3
75°	317.1	320.5	317.1	322.2	317.1	320.5	317.1	318.8	317.1	313.7	301.7
77.5°	241.7	245.1	241.7	241.7	241.7	245.1	241.7	243.4	243.4	243.4	233.1
80°	171.4	169.7	169.7	168.0	169.7	169.7	171.4	171.4	173.1	169.7	166.3
82.5°	109.7	108.0	108.0	111.4	108.0	108.0	109.7	111.4	108.0	108.0	108.0
85°	60.0	61.7	58.3	58.3	58.3	61.7	60.0	56.6	60.0	60.0	58.3
87.5°	22.3	20.5	20.5	20.5	20.5	20.5	22.3	24.0	24.0	24.0	25.7
90°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	13.0	17.3	19.4	16.7
92.5°	48.6	46.7	39.0	31.3	39.0	46.7	48.6	68.9	96.0	109.6	96.2
95°	165.1	159.2	135.8	112.4	135.8	159.2	165.1	216.8	285.8	320.3	270.5
97.5°	381.2	370.0	325.5	280.8	325.5	370.0	381.2	413.9	457.4	479.2	396.3
100°	535.3	522.0	468.9	415.8	468.9	522.0	535.3	532.9	529.8	528.2	436.1
102.5°	666.9	655.4	609.9	564.4	609.9	655.4	666.9	625.2	569.7	542.0	448.6
105°	820.5	814.3	789.9	765.4	789.9	814.3	820.5	727.1	602.6	540.4	449.9
107.5°	900.4	901.8	907.8	913.7	907.8	901.8	900.4	770.1	596.5	509.7	429.9
110°	920.8	927.2	952.7	978.2	952.7	927.2	920.8	775.2	581.1	484.1	412.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	907.8	917.6	956.7	995.8	956.7	917.6	907.8	758.8	560.2	460.8	396.7
115°	863.5	877.0	931.3	985.6	931.3	877.0	863.5	719.9	528.6	432.9	378.9
117.5°	802.3	817.4	877.6	937.7	877.6	817.4	802.3	672.8	500.1	413.7	367.8
120°	761.1	775.7	834.2	892.6	834.2	775.7	761.1	642.7	484.9	406.0	364.0
122.5°	719.9	734.3	792.0	849.7	792.0	734.3	719.9	613.3	471.2	400.1	362.0
125°	665.3	678.6	731.7	784.9	731.7	678.6	665.3	574.8	454.0	393.7	360.5
127.5°	621.5	632.8	677.6	722.4	677.6	632.8	621.5	543.8	440.1	388.3	359.5
130°	593.9	604.3	645.7	687.1	645.7	604.3	593.9	524.7	432.5	386.3	360.1
132.5°	570.4	579.7	616.8	653.8	616.8	579.7	570.4	508.5	425.8	384.5	360.5
135°	537.1	545.1	577.1	609.0	577.1	545.1	537.1	485.2	416.0	381.4	360.1
137.5°	512.5	519.0	545.2	571.4	545.2	519.0	512.5	468.6	410.2	380.9	362.4
140°	492.8	498.9	523.4	547.8	523.4	498.9	492.8	454.9	404.4	379.1	362.7
142.5°	479.0	484.3	505.3	526.4	505.3	484.3	479.0	445.7	401.3	379.1	364.0
145°	458.2	462.2	478.1	494.1	478.1	462.2	458.2	431.0	394.7	376.6	364.0
147.5°	440.8	444.1	457.4	470.6	457.4	444.1	440.8	419.4	390.9	376.6	366.5
150°	430.9	433.5	444.2	454.9	444.2	433.5	430.9	412.8	388.7	376.6	367.8
152.5°	422.9	425.0	433.0	441.1	433.0	425.0	422.9	407.5	386.9	376.6	368.7
155°	413.5	414.8	420.1	425.5	420.1	414.8	413.5	401.2	384.8	376.6	370.5
157.5°	405.2	406.1	410.0	413.7	410.0	406.1	405.2	395.7	383.0	376.6	372.4
160°	401.1	401.6	403.8	406.0	403.8	401.6	401.1	392.9	382.0	376.6	373.3
162.5°	397.3	397.8	399.8	401.9	399.8	397.8	397.3	390.4	381.2	376.6	374.2
165°	391.4	391.9	394.1	396.3	394.1	391.9	391.4	386.5	379.9	376.6	375.5
167.5°	388.9	389.1	390.0	390.9	390.0	389.1	388.9	385.6	381.3	379.1	378.2
170°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	385.6	381.3	379.1	379.1
172.5°	386.8	386.6	385.8	385.0	385.8	386.6	386.8	384.3	380.8	379.1	379.1
175°	384.0	384.0	384.0	384.0	384.0	384.0	384.0	382.4	380.2	379.1	379.7
177.5°	383.5	383.2	382.4	381.4	382.4	383.2	383.5	382.2	380.5	379.7	380.1
180°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1789.6	1798.1	1803.3	1810.2	1827.3
5°	1721.0	1753.6	1763.9	1789.6	1820.5
7.5°	1570.2	1669.6	1697.0	1758.8	1806.8
10°	1424.5	1523.9	1571.9	1717.6	1789.6
12.5°	1350.8	1409.0	1441.7	1645.6	1765.6
15°	1304.5	1345.6	1369.7	1549.6	1738.2
17.5°	1268.5	1297.7	1314.8	1455.4	1700.5
20°	1246.2	1259.9	1275.4	1386.8	1657.7
22.5°	1230.8	1222.2	1234.2	1338.7	1599.4
25°	1220.5	1187.9	1201.7	1301.1	1530.8
27.5°	1229.1	1157.1	1162.2	1266.8	1458.8
30°	1230.8	1119.4	1121.1	1230.8	1378.2
32.5°	1218.8	1079.9	1081.6	1186.2	1287.4
35°	1189.6	1033.6	1031.9	1134.8	1163.9
37.5°	1150.2	984.0	984.0	1078.2	1028.5
40°	1102.2	934.2	939.4	1004.5	908.5
42.5°	1044.0	881.1	888.0	906.8	819.4
45°	980.5	829.7	834.8	766.2	750.8
47.5°	910.2	776.5	778.2	635.9	728.5
50°	826.3	721.6	714.8	545.1	726.8
52.5°	752.5	661.7	641.1	493.6	660.0
55°	680.5	598.3	553.7	454.3	612.0
57.5°	617.1	516.0	473.1	407.9	601.7
60°	558.8	435.4	402.8	358.3	552.0
62.5°	510.9	375.4	368.6	324.0	500.6
65°	459.4	334.2	332.5	294.9	425.1
67.5°	409.7	306.8	305.1	267.4	324.0
70°	356.6	277.7	274.3	238.3	240.0
72.5°	301.7	245.1	241.7	214.3	198.9
75°	246.8	207.4	205.7	186.8	161.1
77.5°	193.7	164.5	168.0	150.9	118.3
80°	138.9	120.0	123.5	108.0	89.1
82.5°	92.5	78.9	82.3	68.6	60.0
85°	51.5	44.6	46.3	36.0	27.4
87.5°	24.0	20.5	20.5	13.7	8.6
90°	11.2	7.2	6.6	4.6	2.6
92.5°	69.4	49.4	45.1	27.6	10.2
95°	170.9	96.3	88.3	56.4	24.5
97.5°	230.2	105.7	98.7	70.6	42.5
100°	251.9	113.7	107.3	81.8	56.3
102.5°	261.7	121.6	115.6	91.8	68.1
105°	269.1	133.3	128.3	108.2	88.1
107.5°	270.4	150.8	146.1	127.3	108.5
110°	268.4	160.5	156.3	139.3	122.3



TEST NUMBER: P933869

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	268.5	172.3	168.3	152.1	136.0
115°	270.9	190.0	186.2	171.3	156.4
117.5°	276.0	207.1	203.7	190.2	176.6
120°	280.1	217.1	213.9	201.2	188.4
122.5°	285.9	228.8	225.6	212.8	200.0
125°	293.9	244.0	241.1	229.4	217.6
127.5°	301.9	258.6	255.6	243.8	231.9
130°	307.7	268.3	265.1	252.4	239.6
132.5°	312.3	276.2	273.1	260.3	247.6
135°	317.5	285.4	282.5	270.9	259.3
137.5°	325.1	297.2	294.3	282.9	271.4
140°	329.8	305.2	302.5	291.9	281.3
142.5°	333.7	311.1	308.6	298.8	289.0
145°	338.8	320.0	317.9	309.4	300.8
147.5°	346.3	331.3	329.2	320.9	312.6
150°	350.3	337.1	335.3	327.8	320.3
152.5°	352.8	341.0	339.5	333.9	328.2
155°	358.4	349.4	348.4	344.1	339.9
157.5°	364.1	357.9	356.9	352.7	348.6
160°	366.7	361.8	361.0	357.8	354.6
162.5°	369.4	365.8	365.3	362.9	360.5
165°	373.3	371.7	371.2	369.0	366.9
167.5°	376.4	375.1	374.8	373.8	372.8
170°	379.0	378.9	378.6	377.6	376.6
172.5°	379.1	379.1	379.1	378.9	378.6
175°	380.7	381.4	381.4	381.4	381.4
177.5°	380.8	381.4	381.4	381.4	381.4
180°	381.4	381.4	381.4	381.4	381.4



TEST NUMBER: P933869
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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	12.12	13.14	12.93	13.98	15.01	14.97	15.99	15.78	16.83	17.86
	3H	12.61	13.53	13.44	14.37	15.43	16.34	17.25	17.16	18.10	19.16
	4H	12.81	13.67	13.65	14.52	15.59	16.79	17.66	17.63	18.51	19.58
	6H	12.94	13.73	13.79	14.59	15.68	17.09	17.89	17.95	18.75	19.83
	8H	12.94	13.70	13.80	14.58	15.66	17.17	17.93	18.04	18.81	19.89
	12H	12.92	13.64	13.79	14.51	15.62	17.22	17.94	18.09	18.82	19.92
4H	2H	13.18	14.04	14.02	14.89	15.96	15.40	16.26	16.25	17.12	18.19
	3H	14.22	14.94	15.08	15.83	16.91	16.93	17.65	17.79	18.53	19.62
	4H	14.50	15.16	15.37	16.04	17.15	17.47	18.12	18.34	19.00	20.12
	6H	14.64	15.20	15.52	16.11	17.22	17.85	18.41	18.73	19.32	20.43
	8H	14.65	15.18	15.54	16.08	17.20	17.96	18.49	18.85	19.39	20.52
	12H	14.62	15.10	15.53	16.02	17.15	18.03	18.51	18.94	19.42	20.56
8H	4H	14.97	15.50	15.86	16.40	17.53	17.60	18.13	18.49	19.03	20.16
	6H	15.24	15.68	16.16	16.62	17.75	18.05	18.49	18.97	19.43	20.56
	8H	15.29	15.67	16.21	16.61	17.75	18.21	18.60	19.14	19.53	20.68
	12H	15.28	15.62	16.21	16.54	17.74	18.32	18.66	19.25	19.59	20.78
12H	4H	14.99	15.46	15.90	16.38	17.52	17.58	18.05	18.48	18.97	20.11
	6H	15.30	15.69	16.23	16.63	17.77	18.05	18.44	18.98	19.37	20.52
	8H	15.38	15.72	16.31	16.65	17.84	18.22	18.56	19.15	19.49	20.69