

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: P934075

Luminaire Tested: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934075
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

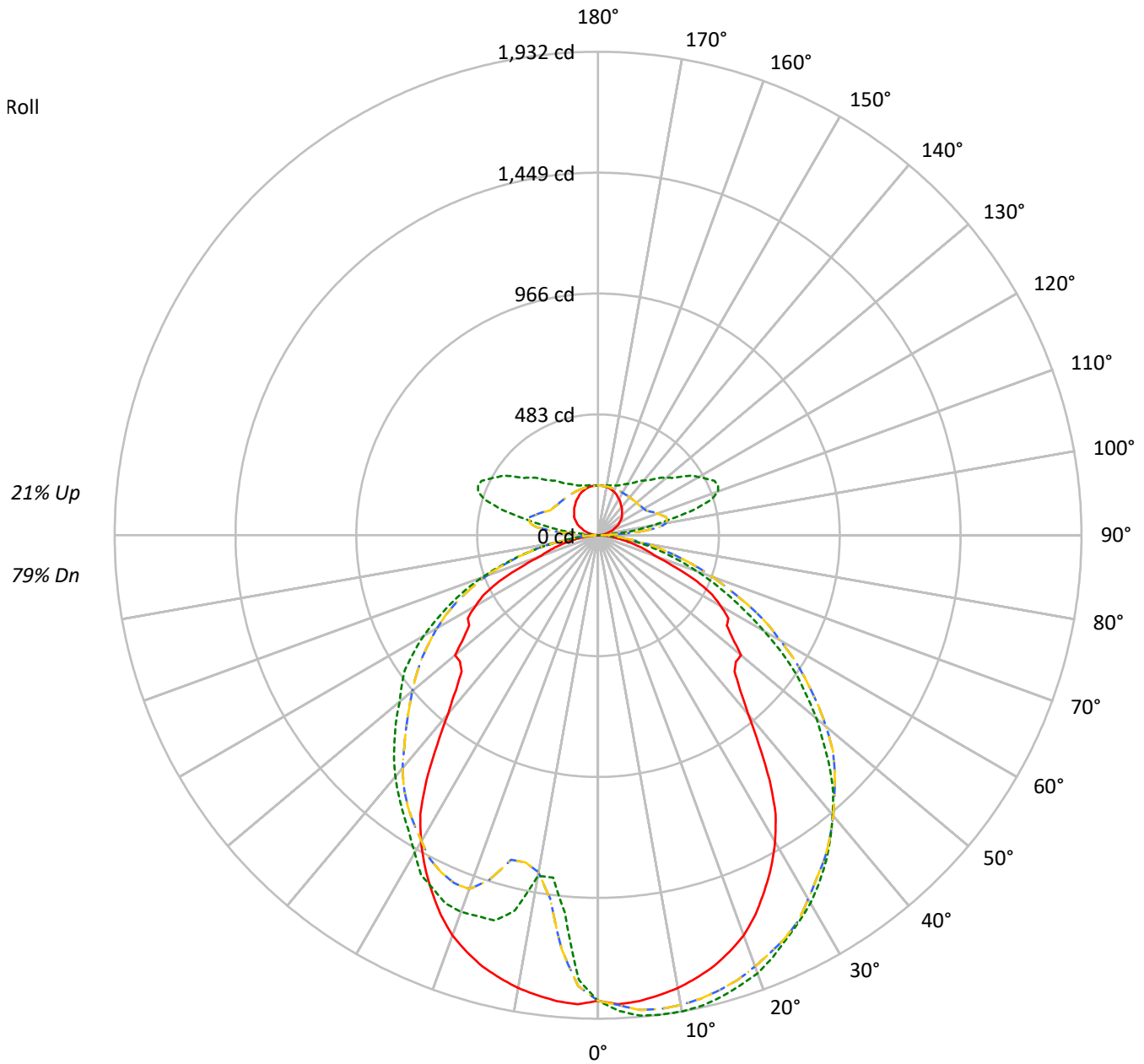
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6112.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 58.2
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



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11506	11506	11506	11506
5°	11588	11615	11588	9133
10°	11507	11442	11507	8180
15°	11377	11194	11377	9347
20°	11135	10900	11135	9366
25°	10643	10472	10643	9168
30°	10011	10116	10011	8732
35°	8920	9666	8920	8254
40°	7428	9137	7428	7892
45°	6633	8517	6633	7475
50°	7041	7778	7041	7058
55°	6619	6981	6619	6816
60°	6813	5930	6813	6242
65°	6169	4901	6169	5479
70°	4260	3906	4260	4592
75°	3722	2888	3722	3458
80°	2978	1909	2978	2078
85°	1675	1011	1675	860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10172 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.7
10°-20°	476.7	7.8
20°-30°	736.9	12.1
30°-40°	879.7	14.4
40°-50°	884.9	14.5
50°-60°	769.9	12.6
60°-70°	545.9	8.9
70°-80°	288.8	4.7
80°-90°	72.7	1.2
90°-100°	96.9	1.6
100°-110°	254.7	4.2
110°-120°	264.1	4.3
120°-130°	211.9	3.5
130°-140°	166.3	2.7
140°-150°	127.6	2.1
150°-160°	91.9	1.5
160°-170°	56.2	0.9
170°-180°	19.0	0.3
0°-30°	1381.5	22.6
0°-40°	2261.3	37.0
0°-60°	3916.1	64.1
0°-90°	4823.5	78.9
90°-120°	615.8	10.1
90°-150°	1121.5	18.3
90°-180°	1289.0	21.1
0°-180°	6112.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1860	1860	1860	1860	1860	
5°	1869	1927	1869	1515	1869	177
15°	1784	1909	1784	1594	1784	502
25°	1571	1781	1571	1559	1571	722
35°	1195	1589	1195	1357	1195	739
45°	771	1309	771	1149	771	617
55°	628	966	628	943	628	577
65°	436	582	436	651	436	417
75°	165	276	165	331	165	174
85°	28	70	28	60	28	38
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	399	46	399	46	49
115°	82	514	82	514	82	81
125°	113	409	113	409	113	101
135°	135	317	135	317	135	105
145°	157	258	157	258	157	98
155°	177	222	177	222	177	81
165°	191	206	191	206	191	54
175°	199	200	199	200	199	19
180°	199	199	199	199	199	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1875.9	1875.9	1886.5	1889.9	1889.9	1884.7	1879.4	1884.7	1900.5	1905.8	1904.0
5°	1868.8	1882.9	1902.3	1905.8	1909.3	1907.5	1904.0	1907.5	1925.1	1928.6	1930.4
7.5°	1854.8	1881.1	1905.8	1911.1	1916.3	1911.1	1909.3	1912.8	1930.4	1934.0	1934.0
10°	1837.2	1874.1	1902.3	1905.8	1911.1	1905.8	1905.8	1912.8	1930.4	1934.0	1935.7
12.5°	1812.5	1863.6	1889.9	1893.5	1900.5	1898.7	1896.9	1904.0	1921.6	1925.1	1925.1
15°	1784.3	1844.2	1868.8	1872.3	1884.7	1881.1	1881.1	1888.2	1907.5	1912.8	1911.1
17.5°	1745.6	1819.5	1847.8	1853.0	1861.8	1860.0	1861.8	1868.8	1886.5	1889.9	1891.7
20°	1701.7	1786.1	1819.5	1824.8	1833.6	1833.6	1833.6	1842.4	1860.0	1867.1	1867.1
22.5°	1641.8	1751.0	1786.1	1789.7	1800.2	1800.2	1803.7	1816.0	1831.9	1833.6	1833.6
25°	1571.4	1712.2	1742.2	1752.6	1763.2	1768.5	1773.8	1780.9	1786.1	1784.3	1786.1
27.5°	1497.5	1663.0	1701.7	1708.7	1722.8	1728.0	1735.1	1736.8	1738.6	1743.9	1740.4
30°	1414.9	1594.3	1652.4	1659.4	1682.3	1685.8	1678.8	1682.3	1691.1	1694.7	1698.1
32.5°	1321.5	1492.3	1601.3	1617.2	1638.3	1627.7	1626.0	1631.3	1645.4	1645.4	1648.8
35°	1194.9	1413.1	1553.8	1567.9	1583.7	1571.4	1578.5	1580.2	1589.0	1594.3	1592.5
37.5°	1055.8	1344.4	1504.5	1515.1	1527.4	1511.6	1522.1	1527.4	1534.5	1531.0	1531.0
40°	932.7	1237.1	1446.5	1453.6	1464.1	1451.8	1462.4	1465.8	1469.4	1465.8	1464.1
42.5°	841.1	1119.1	1384.9	1393.7	1386.7	1395.5	1399.0	1406.1	1400.7	1393.7	1393.7
45°	770.8	1087.5	1318.1	1328.6	1318.1	1332.1	1337.4	1337.4	1321.5	1318.1	1316.3
47.5°	747.9	1024.1	1251.2	1251.2	1245.9	1263.4	1272.2	1260.0	1244.1	1238.8	1238.8
50°	746.1	953.8	1159.6	1152.6	1177.2	1198.4	1189.6	1177.2	1165.0	1145.6	1145.6
52.5°	677.5	867.6	1041.7	1068.2	1106.9	1119.1	1105.1	1092.8	1071.6	1062.8	1055.8
55°	628.3	777.8	934.4	987.2	1027.7	1043.5	1017.1	1004.8	973.2	967.8	964.4
57.5°	617.7	647.6	835.9	902.7	952.0	950.2	934.4	911.5	885.2	879.8	878.1
60°	566.6	468.1	730.3	809.5	860.5	855.2	841.1	820.1	795.4	791.9	788.4
62.5°	513.8	339.7	610.6	700.4	772.6	770.8	758.4	726.7	709.2	700.4	693.4
65°	436.5	285.0	434.7	582.4	686.3	689.8	663.4	640.5	621.2	610.6	608.9
67.5°	332.6	232.3	293.8	485.6	603.6	600.1	566.6	556.1	531.5	526.1	515.6
70°	246.3	154.9	204.2	394.2	522.7	513.8	487.4	475.2	452.3	439.9	432.9
72.5°	204.2	124.9	149.5	306.2	439.9	429.3	406.5	392.4	373.0	362.5	355.5
75°	165.4	132.0	114.4	227.0	357.2	350.2	329.1	315.0	299.2	285.0	286.8
77.5°	121.4	123.2	91.5	167.2	283.3	272.8	260.5	242.9	235.8	221.7	221.7
80°	91.5	96.8	68.6	114.4	204.2	204.2	193.6	181.2	168.9	161.9	161.9
82.5°	61.6	61.6	51.1	72.1	139.1	133.7	126.7	123.2	116.2	112.6	112.6
85°	28.1	35.2	31.7	44.0	75.7	79.2	79.2	75.7	73.9	70.4	72.1
87.5°	8.8	15.8	19.4	24.6	38.7	40.5	42.3	42.3	42.3	44.0	44.0
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.1	9.0	6.7	5.1	5.1
92.5°	5.3	14.4	23.4	25.8	36.2	50.2	57.1	50.0	35.9	25.3	24.3
95°	12.8	29.4	46.0	50.2	89.1	140.9	166.9	148.9	113.0	86.0	83.0
97.5°	22.1	36.8	51.4	55.1	120.0	206.5	249.7	238.3	215.7	198.6	192.9
100°	29.4	42.6	55.9	59.2	131.2	227.2	275.2	276.0	277.7	278.9	272.0
102.5°	35.5	48.0	60.3	63.4	136.4	233.7	282.4	296.9	325.8	347.6	341.6
105°	45.9	56.4	66.9	69.5	140.2	234.4	281.6	314.0	378.9	427.6	424.4
107.5°	56.6	66.3	76.1	78.6	140.9	224.0	265.6	310.9	401.4	469.2	470.0
110°	63.8	72.6	81.4	83.6	139.9	214.8	252.3	302.9	404.0	479.9	483.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.9	79.3	87.6	89.8	139.9	206.7	240.1	291.9	395.4	473.0	478.1
115°	81.5	89.3	97.1	99.0	141.2	197.4	225.6	275.5	375.2	449.9	457.1
117.5°	92.1	99.1	106.1	107.9	143.8	191.6	215.6	260.6	350.6	418.1	425.9
120°	98.2	104.9	111.4	113.1	146.0	189.8	211.6	252.7	335.0	396.7	404.3
122.5°	104.2	110.9	117.6	119.3	149.0	188.7	208.5	245.5	319.6	375.2	382.7
125°	113.4	119.5	125.7	127.2	153.2	187.9	205.2	236.7	299.6	346.8	353.7
127.5°	120.9	127.0	133.2	134.7	157.3	187.4	202.4	229.4	283.4	323.9	329.8
130°	124.9	131.5	138.1	139.8	160.3	187.6	201.3	225.4	273.4	309.5	314.9
132.5°	129.0	135.7	142.3	143.9	162.8	187.9	200.4	221.9	265.0	297.2	302.0
135°	135.2	141.2	147.2	148.7	165.4	187.7	198.8	216.8	252.9	279.9	284.1
137.5°	141.5	147.4	153.4	154.9	169.4	188.9	198.6	213.8	244.3	267.1	270.5
140°	146.6	152.1	157.6	159.0	171.9	189.1	197.6	210.7	237.1	256.8	260.0
142.5°	150.6	155.7	160.8	162.1	173.9	189.7	197.6	209.1	232.3	249.6	252.4
145°	156.7	161.2	165.6	166.8	176.6	189.7	196.2	205.7	224.6	238.8	240.8
147.5°	162.9	167.2	171.6	172.6	180.5	191.0	196.2	203.7	218.5	229.7	231.4
150°	166.9	170.8	174.8	175.7	182.6	191.7	196.2	202.6	215.1	224.5	225.9
152.5°	171.0	174.0	177.0	177.7	183.9	192.2	196.2	201.6	212.3	220.4	221.5
155°	177.2	179.4	181.6	182.1	186.8	193.1	196.2	200.5	209.0	215.4	216.1
157.5°	181.7	183.8	185.9	186.5	189.8	194.1	196.2	199.5	206.2	211.2	211.7
160°	184.8	186.5	188.1	188.5	191.1	194.6	196.2	199.1	204.8	209.0	209.3
162.5°	187.8	189.1	190.3	190.7	192.5	195.0	196.2	198.6	203.4	207.1	207.3
165°	191.2	192.3	193.4	193.7	194.6	195.7	196.2	197.9	201.4	204.0	204.2
167.5°	194.2	194.7	195.3	195.4	196.2	197.1	197.6	198.7	201.0	202.6	202.7
170°	196.2	196.8	197.3	197.4	197.5	197.6	197.6	198.7	201.0	202.6	202.6
172.5°	197.3	197.4	197.6	197.6	197.6	197.6	197.6	198.5	200.2	201.6	201.5
175°	198.8	198.8	198.8	198.8	198.4	197.8	197.6	198.1	199.3	200.2	200.2
177.5°	198.8	198.8	198.8	198.8	198.5	198.0	197.8	198.3	199.2	199.9	199.8
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1907.5	1902.3	1907.5	1904.0	1905.8	1900.5	1884.7	1879.4	1884.7	1889.9	1889.9
5°	1930.4	1926.9	1930.4	1930.4	1928.6	1925.1	1907.5	1904.0	1907.5	1909.3	1905.8
7.5°	1937.4	1932.2	1937.4	1934.0	1934.0	1930.4	1912.8	1909.3	1911.1	1916.3	1911.1
10°	1937.4	1932.2	1937.4	1935.7	1934.0	1930.4	1912.8	1905.8	1905.8	1911.1	1905.8
12.5°	1928.6	1925.1	1928.6	1925.1	1925.1	1921.6	1904.0	1896.9	1898.7	1900.5	1893.5
15°	1914.6	1909.3	1914.6	1911.1	1912.8	1907.5	1888.2	1881.1	1881.1	1884.7	1872.3
17.5°	1893.5	1886.5	1893.5	1891.7	1889.9	1886.5	1868.8	1861.8	1860.0	1861.8	1853.0
20°	1868.8	1863.6	1868.8	1867.1	1867.1	1860.0	1842.4	1833.6	1833.6	1833.6	1824.8
22.5°	1830.1	1824.8	1830.1	1833.6	1833.6	1831.9	1816.0	1803.7	1800.2	1800.2	1789.7
25°	1786.1	1780.9	1786.1	1786.1	1784.3	1786.1	1780.9	1773.8	1768.5	1763.2	1752.6
27.5°	1743.9	1740.4	1743.9	1740.4	1743.9	1738.6	1736.8	1735.1	1728.0	1722.8	1708.7
30°	1701.7	1698.1	1701.7	1698.1	1694.7	1691.1	1682.3	1678.8	1685.8	1682.3	1659.4
32.5°	1648.8	1645.4	1648.8	1648.8	1645.4	1645.4	1631.3	1626.0	1627.7	1638.3	1617.2
35°	1594.3	1589.0	1594.3	1592.5	1594.3	1589.0	1580.2	1578.5	1571.4	1583.7	1567.9
37.5°	1531.0	1525.7	1531.0	1531.0	1531.0	1534.5	1527.4	1522.1	1511.6	1527.4	1515.1
40°	1465.8	1458.8	1465.8	1464.1	1465.8	1469.4	1465.8	1462.4	1451.8	1464.1	1453.6
42.5°	1391.9	1390.2	1391.9	1393.7	1393.7	1400.7	1406.1	1399.0	1395.5	1386.7	1393.7
45°	1312.7	1309.3	1312.7	1316.3	1318.1	1321.5	1337.4	1337.4	1332.1	1318.1	1328.6
47.5°	1228.3	1219.5	1228.3	1238.8	1238.8	1244.1	1260.0	1272.2	1263.4	1245.9	1251.2
50°	1138.5	1140.3	1138.5	1145.6	1145.6	1165.0	1177.2	1189.6	1198.4	1177.2	1152.6
52.5°	1050.6	1048.8	1050.6	1055.8	1062.8	1071.6	1092.8	1105.1	1119.1	1106.9	1068.2
55°	962.6	966.1	962.6	964.4	967.8	973.2	1004.8	1017.1	1043.5	1027.7	987.2
57.5°	874.6	869.3	874.6	878.1	879.8	885.2	911.5	934.4	950.2	952.0	902.7
60°	772.6	765.5	772.6	788.4	791.9	795.4	820.1	841.1	855.2	860.5	809.5
62.5°	682.8	670.4	682.8	693.4	700.4	709.2	726.7	758.4	770.8	772.6	700.4
65°	587.8	582.4	587.8	608.9	610.6	621.2	640.5	663.4	689.8	686.3	582.4
67.5°	501.5	501.5	501.5	515.6	526.1	531.5	556.1	566.6	600.1	603.6	485.6
70°	422.3	420.6	422.3	432.9	439.9	452.3	475.2	487.4	513.8	522.7	394.2
72.5°	346.7	344.9	346.7	355.5	362.5	373.0	392.4	406.5	429.3	439.9	306.2
75°	279.8	276.3	279.8	286.8	285.0	299.2	315.0	329.1	350.2	357.2	227.0
77.5°	214.7	214.7	214.7	221.7	221.7	235.8	242.9	260.5	272.8	283.3	167.2
80°	160.1	158.4	160.1	161.9	161.9	168.9	181.2	193.6	204.2	204.2	114.4
82.5°	112.6	109.1	112.6	112.6	112.6	116.2	123.2	126.7	133.7	139.1	72.1
85°	70.4	70.4	70.4	72.1	70.4	73.9	75.7	79.2	79.2	75.7	44.0
87.5°	45.7	44.0	45.7	44.0	44.0	42.3	42.3	42.3	40.5	38.7	24.6
90°	5.1	5.1	5.1	5.1	5.1	6.7	9.0	10.1	8.7	5.9	3.7
92.5°	20.2	16.3	20.2	24.3	25.3	35.9	50.0	57.1	50.2	36.2	25.8
95°	70.8	58.6	70.8	83.0	86.0	113.0	148.9	166.9	140.9	89.1	50.2
97.5°	169.6	146.3	169.6	192.9	198.6	215.7	238.3	249.7	206.5	120.0	55.1
100°	244.4	216.7	244.4	272.0	278.9	277.7	276.0	275.2	227.2	131.2	59.2
102.5°	317.9	294.2	317.9	341.6	347.6	325.8	296.9	282.4	233.7	136.4	63.4
105°	411.7	398.9	411.7	424.4	427.6	378.9	314.0	281.6	234.4	140.2	69.5
107.5°	473.0	476.1	473.0	470.0	469.2	401.4	310.9	265.6	224.0	140.9	78.6
110°	496.5	509.8	496.5	483.2	479.9	404.0	302.9	252.3	214.8	139.9	83.6



TEST NUMBER: P934075

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	498.5	518.9	498.5	478.1	473.0	395.4	291.9	240.1	206.7	139.9	89.8
115°	485.3	513.6	485.3	457.1	449.9	375.2	275.5	225.6	197.4	141.2	99.0
117.5°	457.3	488.7	457.3	425.9	418.1	350.6	260.6	215.6	191.6	143.8	107.9
120°	434.8	465.2	434.8	404.3	396.7	335.0	252.7	211.6	189.8	146.0	113.1
122.5°	412.7	442.8	412.7	382.7	375.2	319.6	245.5	208.5	188.7	149.0	119.3
125°	381.3	409.0	381.3	353.7	346.8	299.6	236.7	205.2	187.9	153.2	127.2
127.5°	353.2	376.5	353.2	329.8	323.9	283.4	229.4	202.4	187.4	157.3	134.7
130°	336.5	358.0	336.5	314.9	309.5	273.4	225.4	201.3	187.6	160.3	139.8
132.5°	321.4	340.7	321.4	302.0	297.2	265.0	221.9	200.4	187.9	162.8	143.9
135°	300.7	317.4	300.7	284.1	279.9	252.9	216.8	198.8	187.7	165.4	148.7
137.5°	284.2	297.7	284.2	270.5	267.1	244.3	213.8	198.6	188.9	169.4	154.9
140°	272.7	285.5	272.7	260.0	256.8	237.1	210.7	197.6	189.1	171.9	159.0
142.5°	263.3	274.3	263.3	252.4	249.6	232.3	209.1	197.6	189.7	173.9	162.1
145°	249.2	257.5	249.2	240.8	238.8	224.6	205.7	196.2	189.7	176.6	166.8
147.5°	238.3	245.2	238.3	231.4	229.7	218.5	203.7	196.2	191.0	180.5	172.6
150°	231.5	237.1	231.5	225.9	224.5	215.1	202.6	196.2	191.7	182.6	175.7
152.5°	225.6	229.9	225.6	221.5	220.4	212.3	201.6	196.2	192.2	183.9	177.7
155°	218.9	221.7	218.9	216.1	215.4	209.0	200.5	196.2	193.1	186.8	182.1
157.5°	213.7	215.6	213.7	211.7	211.2	206.2	199.5	196.2	194.1	189.8	186.5
160°	210.5	211.6	210.5	209.3	209.0	204.8	199.1	196.2	194.6	191.1	188.5
162.5°	208.4	209.5	208.4	207.3	207.1	203.4	198.6	196.2	195.0	192.5	190.7
165°	205.4	206.5	205.4	204.2	204.0	201.4	197.9	196.2	195.7	194.6	193.7
167.5°	203.3	203.7	203.3	202.7	202.6	201.0	198.7	197.6	197.1	196.2	195.4
170°	202.6	202.6	202.6	202.6	202.6	201.0	198.7	197.6	197.6	197.5	197.4
172.5°	201.0	200.7	201.0	201.5	201.6	200.2	198.5	197.6	197.6	197.6	197.6
175°	200.2	200.2	200.2	200.2	200.2	199.3	198.1	197.6	197.8	198.4	198.8
177.5°	199.3	198.8	199.3	199.8	199.9	199.2	198.3	197.8	198.0	198.5	198.8
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P934075
 CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1886.5	1875.9	1875.9	1858.2	1851.2	1846.0	1837.2	1810.7	1803.7	1796.7	1807.3
5°	1902.3	1882.9	1868.8	1837.2	1810.7	1800.2	1766.8	1703.5	1661.2	1629.5	1611.9
7.5°	1905.8	1881.1	1854.8	1805.5	1742.2	1713.9	1611.9	1495.7	1464.1	1435.9	1418.3
10°	1902.3	1874.1	1837.2	1763.2	1613.7	1564.4	1462.4	1386.7	1367.3	1362.0	1367.3
12.5°	1889.9	1863.6	1812.5	1689.3	1479.9	1446.5	1386.7	1342.7	1339.2	1348.0	1395.5
15°	1868.8	1844.2	1784.3	1590.8	1406.1	1381.4	1339.2	1323.3	1342.7	1404.3	1546.8
17.5°	1847.8	1819.5	1745.6	1494.0	1349.7	1332.1	1302.2	1333.9	1443.0	1525.7	1573.2
20°	1819.5	1786.1	1701.7	1423.6	1309.3	1293.4	1279.3	1421.9	1504.5	1534.5	1560.8
22.5°	1786.1	1751.0	1641.8	1374.4	1267.0	1254.7	1263.4	1471.1	1504.5	1525.7	1548.6
25°	1742.2	1712.2	1571.4	1335.6	1233.6	1219.5	1253.0	1465.8	1485.2	1490.5	1536.2
27.5°	1701.7	1663.0	1497.5	1300.5	1193.1	1187.8	1261.8	1443.0	1457.0	1462.4	1511.6
30°	1652.4	1594.3	1414.9	1263.4	1150.8	1149.1	1263.4	1414.9	1411.3	1425.4	1474.6
32.5°	1601.3	1492.3	1321.5	1217.7	1110.4	1108.7	1251.2	1372.6	1369.0	1388.4	1425.4
35°	1553.8	1413.1	1194.9	1165.0	1059.4	1061.1	1221.3	1323.3	1325.1	1342.7	1365.6
37.5°	1504.5	1344.4	1055.8	1106.9	1010.1	1010.1	1180.8	1277.6	1274.0	1279.3	1311.0
40°	1446.5	1237.1	932.7	1031.2	964.4	959.0	1131.5	1228.3	1215.9	1214.3	1258.2
42.5°	1384.9	1119.1	841.1	930.9	911.5	904.5	1071.6	1168.4	1145.6	1150.8	1207.1
45°	1318.1	1087.5	770.8	786.6	857.0	851.7	1006.5	1099.8	1084.0	1098.1	1156.2
47.5°	1251.2	1024.1	747.9	652.9	798.9	797.2	934.4	1032.9	1024.1	1038.2	1099.8
50°	1159.6	953.8	746.1	559.6	733.8	740.9	848.2	967.8	967.8	980.2	1045.3
52.5°	1041.7	867.6	677.5	506.8	658.1	679.2	772.6	911.5	915.1	927.3	985.4
55°	934.4	777.8	628.3	466.3	568.4	614.1	698.6	853.5	860.5	872.8	925.7
57.5°	835.9	647.6	617.7	418.8	485.6	529.7	633.5	797.2	800.7	811.3	862.2
60°	730.3	468.1	566.6	367.8	413.5	446.9	573.6	730.3	742.6	749.6	793.6
62.5°	610.6	339.7	513.8	332.6	378.4	385.4	524.4	667.0	682.8	688.0	714.5
65°	434.7	285.0	436.5	302.6	341.3	343.1	471.6	601.8	615.9	624.7	644.1
67.5°	293.8	232.3	332.6	274.5	313.2	315.0	420.6	526.1	545.5	552.5	564.9
70°	204.2	154.9	246.3	244.6	281.6	285.0	366.0	457.5	475.2	480.4	487.4
72.5°	149.5	124.9	204.2	220.0	248.1	251.7	309.7	380.1	397.7	403.0	406.5
75°	114.4	132.0	165.4	191.8	211.2	212.9	253.4	309.7	322.0	325.5	327.3
77.5°	91.5	123.2	121.4	154.9	172.4	168.9	198.8	239.3	249.9	249.9	249.9
80°	68.6	96.8	91.5	110.8	126.7	123.2	142.5	170.7	174.2	177.7	176.0
82.5°	51.1	61.6	61.6	70.4	84.4	81.0	95.0	110.8	110.8	110.8	114.4
85°	31.7	35.2	28.1	36.9	47.5	45.7	52.8	59.9	61.6	61.6	58.1
87.5°	19.4	15.8	8.8	14.1	21.1	21.1	24.6	26.4	24.6	24.6	24.6
90°	3.5	2.4	1.3	2.4	3.5	3.7	5.9	8.7	10.1	9.0	6.7
92.5°	23.4	14.4	5.3	14.4	23.4	25.8	36.2	50.2	57.1	50.0	35.9
95°	46.0	29.4	12.8	29.4	46.0	50.2	89.1	140.9	166.9	148.9	113.0
97.5°	51.4	36.8	22.1	36.8	51.4	55.1	120.0	206.5	249.7	238.3	215.7
100°	55.9	42.6	29.4	42.6	55.9	59.2	131.2	227.2	275.2	276.0	277.7
102.5°	60.3	48.0	35.5	48.0	60.3	63.4	136.4	233.7	282.4	296.9	325.8
105°	66.9	56.4	45.9	56.4	66.9	69.5	140.2	234.4	281.6	314.0	378.9
107.5°	76.1	66.3	56.6	66.3	76.1	78.6	140.9	224.0	265.6	310.9	401.4
110°	81.4	72.6	63.8	72.6	81.4	83.6	139.9	214.8	252.3	302.9	404.0



TEST NUMBER: P934075

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	87.6	79.3	70.9	79.3	87.6	89.8	139.9	206.7	240.1	291.9	395.4
115°	97.1	89.3	81.5	89.3	97.1	99.0	141.2	197.4	225.6	275.5	375.2
117.5°	106.1	99.1	92.1	99.1	106.1	107.9	143.8	191.6	215.6	260.6	350.6
120°	111.4	104.9	98.2	104.9	111.4	113.1	146.0	189.8	211.6	252.7	335.0
122.5°	117.6	110.9	104.2	110.9	117.6	119.3	149.0	188.7	208.5	245.5	319.6
125°	125.7	119.5	113.4	119.5	125.7	127.2	153.2	187.9	205.2	236.7	299.6
127.5°	133.2	127.0	120.9	127.0	133.2	134.7	157.3	187.4	202.4	229.4	283.4
130°	138.1	131.5	124.9	131.5	138.1	139.8	160.3	187.6	201.3	225.4	273.4
132.5°	142.3	135.7	129.0	135.7	142.3	143.9	162.8	187.9	200.4	221.9	265.0
135°	147.2	141.2	135.2	141.2	147.2	148.7	165.4	187.7	198.8	216.8	252.9
137.5°	153.4	147.4	141.5	147.4	153.4	154.9	169.4	188.9	198.6	213.8	244.3
140°	157.6	152.1	146.6	152.1	157.6	159.0	171.9	189.1	197.6	210.7	237.1
142.5°	160.8	155.7	150.6	155.7	160.8	162.1	173.9	189.7	197.6	209.1	232.3
145°	165.6	161.2	156.7	161.2	165.6	166.8	176.6	189.7	196.2	205.7	224.6
147.5°	171.6	167.2	162.9	167.2	171.6	172.6	180.5	191.0	196.2	203.7	218.5
150°	174.8	170.8	166.9	170.8	174.8	175.7	182.6	191.7	196.2	202.6	215.1
152.5°	177.0	174.0	171.0	174.0	177.0	177.7	183.9	192.2	196.2	201.6	212.3
155°	181.6	179.4	177.2	179.4	181.6	182.1	186.8	193.1	196.2	200.5	209.0
157.5°	185.9	183.8	181.7	183.8	185.9	186.5	189.8	194.1	196.2	199.5	206.2
160°	188.1	186.5	184.8	186.5	188.1	188.5	191.1	194.6	196.2	199.1	204.8
162.5°	190.3	189.1	187.8	189.1	190.3	190.7	192.5	195.0	196.2	198.6	203.4
165°	193.4	192.3	191.2	192.3	193.4	193.7	194.6	195.7	196.2	197.9	201.4
167.5°	195.3	194.7	194.2	194.7	195.3	195.4	196.2	197.1	197.6	198.7	201.0
170°	197.3	196.8	196.2	196.8	197.3	197.4	197.5	197.6	197.6	198.7	201.0
172.5°	197.6	197.4	197.3	197.4	197.6	197.6	197.6	197.6	197.6	198.5	200.2
175°	198.8	198.8	198.8	198.8	198.8	198.8	198.4	197.8	197.6	198.1	199.3
177.5°	198.8	198.8	198.8	198.8	198.8	198.8	198.5	198.0	197.8	198.3	199.2
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P934075
 CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1794.9	1789.7	1796.7	1777.3	1796.7	1789.7	1794.9	1807.3	1796.7	1803.7	1810.7
5°	1575.0	1566.2	1538.0	1515.1	1538.0	1566.2	1575.0	1611.9	1629.5	1661.2	1703.5
7.5°	1407.7	1400.7	1393.7	1379.6	1393.7	1400.7	1407.7	1418.3	1435.9	1464.1	1495.7
10°	1370.8	1372.6	1383.1	1381.4	1383.1	1372.6	1370.8	1367.3	1362.0	1367.3	1386.7
12.5°	1465.8	1481.7	1539.8	1536.2	1539.8	1481.7	1465.8	1395.5	1348.0	1339.2	1342.7
15°	1575.0	1580.2	1592.5	1594.3	1592.5	1580.2	1575.0	1546.8	1404.3	1342.7	1323.3
17.5°	1585.5	1587.3	1596.1	1596.1	1596.1	1587.3	1585.5	1573.2	1525.7	1443.0	1333.9
20°	1576.7	1580.2	1597.9	1601.3	1597.9	1580.2	1576.7	1560.8	1534.5	1504.5	1421.9
22.5°	1573.2	1580.2	1594.3	1592.5	1594.3	1580.2	1573.2	1548.6	1525.7	1504.5	1471.1
25°	1555.6	1555.6	1557.4	1559.2	1557.4	1555.6	1555.6	1536.2	1490.5	1485.2	1465.8
27.5°	1518.7	1522.1	1532.7	1531.0	1532.7	1522.1	1518.7	1511.6	1462.4	1457.0	1443.0
30°	1485.2	1481.7	1472.9	1465.8	1472.9	1481.7	1485.2	1474.6	1425.4	1411.3	1414.9
32.5°	1428.9	1420.1	1411.3	1406.1	1411.3	1420.1	1428.9	1425.4	1388.4	1369.0	1372.6
35°	1362.0	1363.8	1362.0	1356.8	1362.0	1363.8	1362.0	1365.6	1342.7	1325.1	1323.3
37.5°	1314.5	1318.1	1316.3	1309.3	1316.3	1318.1	1314.5	1311.0	1279.3	1274.0	1277.6
40°	1265.2	1267.0	1265.2	1260.0	1265.2	1267.0	1265.2	1258.2	1214.3	1215.9	1228.3
42.5°	1217.7	1215.9	1210.7	1207.1	1210.7	1215.9	1217.7	1207.1	1150.8	1145.6	1168.4
45°	1163.2	1165.0	1154.4	1149.1	1154.4	1165.0	1163.2	1156.2	1098.1	1084.0	1099.8
47.5°	1108.7	1108.7	1099.8	1094.5	1099.8	1108.7	1108.7	1099.8	1038.2	1024.1	1032.9
50°	1050.6	1048.8	1036.5	1034.7	1036.5	1048.8	1050.6	1045.3	980.2	967.8	967.8
52.5°	983.7	983.7	985.4	989.0	985.4	983.7	983.7	985.4	927.3	915.1	911.5
55°	925.7	927.3	939.7	943.2	939.7	927.3	925.7	925.7	872.8	860.5	853.5
57.5°	865.8	865.8	874.6	874.6	874.6	865.8	865.8	862.2	811.3	800.7	797.2
60°	797.2	800.7	807.7	805.9	807.7	800.7	797.2	793.6	749.6	742.6	730.3
62.5°	725.0	728.5	730.3	726.7	730.3	728.5	725.0	714.5	688.0	682.8	667.0
65°	649.3	652.9	654.6	651.1	654.6	652.9	649.3	644.1	624.7	615.9	601.8
67.5°	571.9	570.2	568.4	575.4	568.4	570.2	571.9	564.9	552.5	545.5	526.1
70°	492.8	492.8	491.0	494.4	491.0	492.8	492.8	487.4	480.4	475.2	457.5
72.5°	408.2	406.5	413.5	408.2	413.5	406.5	408.2	406.5	403.0	397.7	380.1
75°	325.5	329.1	325.5	330.9	325.5	329.1	325.5	327.3	325.5	322.0	309.7
77.5°	248.1	251.7	248.1	248.1	248.1	251.7	248.1	249.9	249.9	249.9	239.3
80°	176.0	174.2	174.2	172.4	174.2	174.2	176.0	176.0	177.7	174.2	170.7
82.5°	112.6	110.8	110.8	114.4	110.8	110.8	112.6	114.4	110.8	110.8	110.8
85°	61.6	63.3	59.9	59.9	59.9	63.3	61.6	58.1	61.6	61.6	59.9
87.5°	22.9	21.1	21.1	21.1	21.1	21.1	22.9	24.6	24.6	24.6	26.4
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.7	9.0	10.1	8.7
92.5°	25.3	24.3	20.2	16.3	20.2	24.3	25.3	35.9	50.0	57.1	50.2
95°	86.0	83.0	70.8	58.6	70.8	83.0	86.0	113.0	148.9	166.9	140.9
97.5°	198.6	192.9	169.6	146.3	169.6	192.9	198.6	215.7	238.3	249.7	206.5
100°	278.9	272.0	244.4	216.7	244.4	272.0	278.9	277.7	276.0	275.2	227.2
102.5°	347.6	341.6	317.9	294.2	317.9	341.6	347.6	325.8	296.9	282.4	233.7
105°	427.6	424.4	411.7	398.9	411.7	424.4	427.6	378.9	314.0	281.6	234.4
107.5°	469.2	470.0	473.0	476.1	473.0	470.0	469.2	401.4	310.9	265.6	224.0
110°	479.9	483.2	496.5	509.8	496.5	483.2	479.9	404.0	302.9	252.3	214.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	473.0	478.1	498.5	518.9	498.5	478.1	473.0	395.4	291.9	240.1	206.7
115°	449.9	457.1	485.3	513.6	485.3	457.1	449.9	375.2	275.5	225.6	197.4
117.5°	418.1	425.9	457.3	488.7	457.3	425.9	418.1	350.6	260.6	215.6	191.6
120°	396.7	404.3	434.8	465.2	434.8	404.3	396.7	335.0	252.7	211.6	189.8
122.5°	375.2	382.7	412.7	442.8	412.7	382.7	375.2	319.6	245.5	208.5	188.7
125°	346.8	353.7	381.3	409.0	381.3	353.7	346.8	299.6	236.7	205.2	187.9
127.5°	323.9	329.8	353.2	376.5	353.2	329.8	323.9	283.4	229.4	202.4	187.4
130°	309.5	314.9	336.5	358.0	336.5	314.9	309.5	273.4	225.4	201.3	187.6
132.5°	297.2	302.0	321.4	340.7	321.4	302.0	297.2	265.0	221.9	200.4	187.9
135°	279.9	284.1	300.7	317.4	300.7	284.1	279.9	252.9	216.8	198.8	187.7
137.5°	267.1	270.5	284.2	297.7	284.2	270.5	267.1	244.3	213.8	198.6	188.9
140°	256.8	260.0	272.7	285.5	272.7	260.0	256.8	237.1	210.7	197.6	189.1
142.5°	249.6	252.4	263.3	274.3	263.3	252.4	249.6	232.3	209.1	197.6	189.7
145°	238.8	240.8	249.2	257.5	249.2	240.8	238.8	224.6	205.7	196.2	189.7
147.5°	229.7	231.4	238.3	245.2	238.3	231.4	229.7	218.5	203.7	196.2	191.0
150°	224.5	225.9	231.5	237.1	231.5	225.9	224.5	215.1	202.6	196.2	191.7
152.5°	220.4	221.5	225.6	229.9	225.6	221.5	220.4	212.3	201.6	196.2	192.2
155°	215.4	216.1	218.9	221.7	218.9	216.1	215.4	209.0	200.5	196.2	193.1
157.5°	211.2	211.7	213.7	215.6	213.7	211.7	211.2	206.2	199.5	196.2	194.1
160°	209.0	209.3	210.5	211.6	210.5	209.3	209.0	204.8	199.1	196.2	194.6
162.5°	207.1	207.3	208.4	209.5	208.4	207.3	207.1	203.4	198.6	196.2	195.0
165°	204.0	204.2	205.4	206.5	205.4	204.2	204.0	201.4	197.9	196.2	195.7
167.5°	202.6	202.7	203.3	203.7	203.3	202.7	202.6	201.0	198.7	197.6	197.1
170°	202.6	202.6	202.6	202.6	202.6	202.6	202.6	201.0	198.7	197.6	197.6
172.5°	201.6	201.5	201.0	200.7	201.0	201.5	201.6	200.2	198.5	197.6	197.6
175°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	199.3	198.1	197.6	197.8
177.5°	199.9	199.8	199.3	198.8	199.3	199.8	199.9	199.2	198.3	197.8	198.0
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1837.2	1846.0	1851.2	1858.2	1875.9
5°	1766.8	1800.2	1810.7	1837.2	1868.8
7.5°	1611.9	1713.9	1742.2	1805.5	1854.8
10°	1462.4	1564.4	1613.7	1763.2	1837.2
12.5°	1386.7	1446.5	1479.9	1689.3	1812.5
15°	1339.2	1381.4	1406.1	1590.8	1784.3
17.5°	1302.2	1332.1	1349.7	1494.0	1745.6
20°	1279.3	1293.4	1309.3	1423.6	1701.7
22.5°	1263.4	1254.7	1267.0	1374.4	1641.8
25°	1253.0	1219.5	1233.6	1335.6	1571.4
27.5°	1261.8	1187.8	1193.1	1300.5	1497.5
30°	1263.4	1149.1	1150.8	1263.4	1414.9
32.5°	1251.2	1108.7	1110.4	1217.7	1321.5
35°	1221.3	1061.1	1059.4	1165.0	1194.9
37.5°	1180.8	1010.1	1010.1	1106.9	1055.8
40°	1131.5	959.0	964.4	1031.2	932.7
42.5°	1071.6	904.5	911.5	930.9	841.1
45°	1006.5	851.7	857.0	786.6	770.8
47.5°	934.4	797.2	798.9	652.9	747.9
50°	848.2	740.9	733.8	559.6	746.1
52.5°	772.6	679.2	658.1	506.8	677.5
55°	698.6	614.1	568.4	466.3	628.3
57.5°	633.5	529.7	485.6	418.8	617.7
60°	573.6	446.9	413.5	367.8	566.6
62.5°	524.4	385.4	378.4	332.6	513.8
65°	471.6	343.1	341.3	302.6	436.5
67.5°	420.6	315.0	313.2	274.5	332.6
70°	366.0	285.0	281.6	244.6	246.3
72.5°	309.7	251.7	248.1	220.0	204.2
75°	253.4	212.9	211.2	191.8	165.4
77.5°	198.8	168.9	172.4	154.9	121.4
80°	142.5	123.2	126.7	110.8	91.5
82.5°	95.0	81.0	84.4	70.4	61.6
85°	52.8	45.7	47.5	36.9	28.1
87.5°	24.6	21.1	21.1	14.1	8.8
90°	5.9	3.7	3.5	2.4	1.3
92.5°	36.2	25.8	23.4	14.4	5.3
95°	89.1	50.2	46.0	29.4	12.8
97.5°	120.0	55.1	51.4	36.8	22.1
100°	131.2	59.2	55.9	42.6	29.4
102.5°	136.4	63.4	60.3	48.0	35.5
105°	140.2	69.5	66.9	56.4	45.9
107.5°	140.9	78.6	76.1	66.3	56.6
110°	139.9	83.6	81.4	72.6	63.8



TEST NUMBER: P934075

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	139.9	89.8	87.6	79.3	70.9
115°	141.2	99.0	97.1	89.3	81.5
117.5°	143.8	107.9	106.1	99.1	92.1
120°	146.0	113.1	111.4	104.9	98.2
122.5°	149.0	119.3	117.6	110.9	104.2
125°	153.2	127.2	125.7	119.5	113.4
127.5°	157.3	134.7	133.2	127.0	120.9
130°	160.3	139.8	138.1	131.5	124.9
132.5°	162.8	143.9	142.3	135.7	129.0
135°	165.4	148.7	147.2	141.2	135.2
137.5°	169.4	154.9	153.4	147.4	141.5
140°	171.9	159.0	157.6	152.1	146.6
142.5°	173.9	162.1	160.8	155.7	150.6
145°	176.6	166.8	165.6	161.2	156.7
147.5°	180.5	172.6	171.6	167.2	162.9
150°	182.6	175.7	174.8	170.8	166.9
152.5°	183.9	177.7	177.0	174.0	171.0
155°	186.8	182.1	181.6	179.4	177.2
157.5°	189.8	186.5	185.9	183.8	181.7
160°	191.1	188.5	188.1	186.5	184.8
162.5°	192.5	190.7	190.3	189.1	187.8
165°	194.6	193.7	193.4	192.3	191.2
167.5°	196.2	195.4	195.3	194.7	194.2
170°	197.5	197.4	197.3	196.8	196.2
172.5°	197.6	197.6	197.6	197.4	197.3
175°	198.4	198.8	198.8	198.8	198.8
177.5°	198.5	198.8	198.8	198.8	198.8
180°	198.8	198.8	198.8	198.8	198.8



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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	15.62	16.82	16.29	17.50	18.29	18.45	19.65	19.11	20.33	21.11
	3H	16.13	17.20	16.80	17.89	18.71	19.82	20.89	20.49	21.58	22.40
	4H	16.33	17.35	17.03	18.05	18.88	20.28	21.29	20.97	21.99	22.83
	6H	16.47	17.41	17.18	18.12	18.97	20.58	21.51	21.28	22.22	23.07
	8H	16.48	17.37	17.20	18.10	18.96	20.66	21.55	21.38	22.28	23.14
	12H	16.46	17.32	17.19	18.04	18.92	20.71	21.56	21.43	22.29	23.16
4H	2H	16.70	17.71	17.39	18.41	19.25	18.90	19.91	19.60	20.61	21.45
	3H	17.75	18.60	18.46	19.34	20.19	20.43	21.28	21.14	22.02	22.87
	4H	18.04	18.81	18.77	19.55	20.43	20.97	21.74	21.70	22.48	23.36
	6H	18.19	18.85	18.93	19.62	20.51	21.36	22.02	22.10	22.79	23.68
	8H	18.20	18.82	18.95	19.58	20.49	21.47	22.09	22.22	22.85	23.76
	12H	18.18	18.74	18.96	19.53	20.44	21.54	22.10	22.31	22.89	23.80
8H	4H	18.52	19.15	19.27	19.91	20.81	21.13	21.75	21.88	22.51	23.41
	6H	18.80	19.31	19.58	20.12	21.02	21.57	22.09	22.35	22.89	23.80
	8H	18.84	19.30	19.64	20.11	21.03	21.73	22.19	22.52	22.99	23.91
	12H	18.84	19.25	19.64	20.04	21.02	21.84	22.25	22.64	23.04	24.02
12H	4H	18.55	19.10	19.32	19.89	20.80	21.11	21.67	21.88	22.45	23.36
	6H	18.86	19.32	19.65	20.13	21.05	21.57	22.03	22.37	22.84	23.76
	8H	18.94	19.35	19.74	20.14	21.12	21.75	22.16	22.55	22.95	23.93