

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: P934019

Luminaire Tested: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

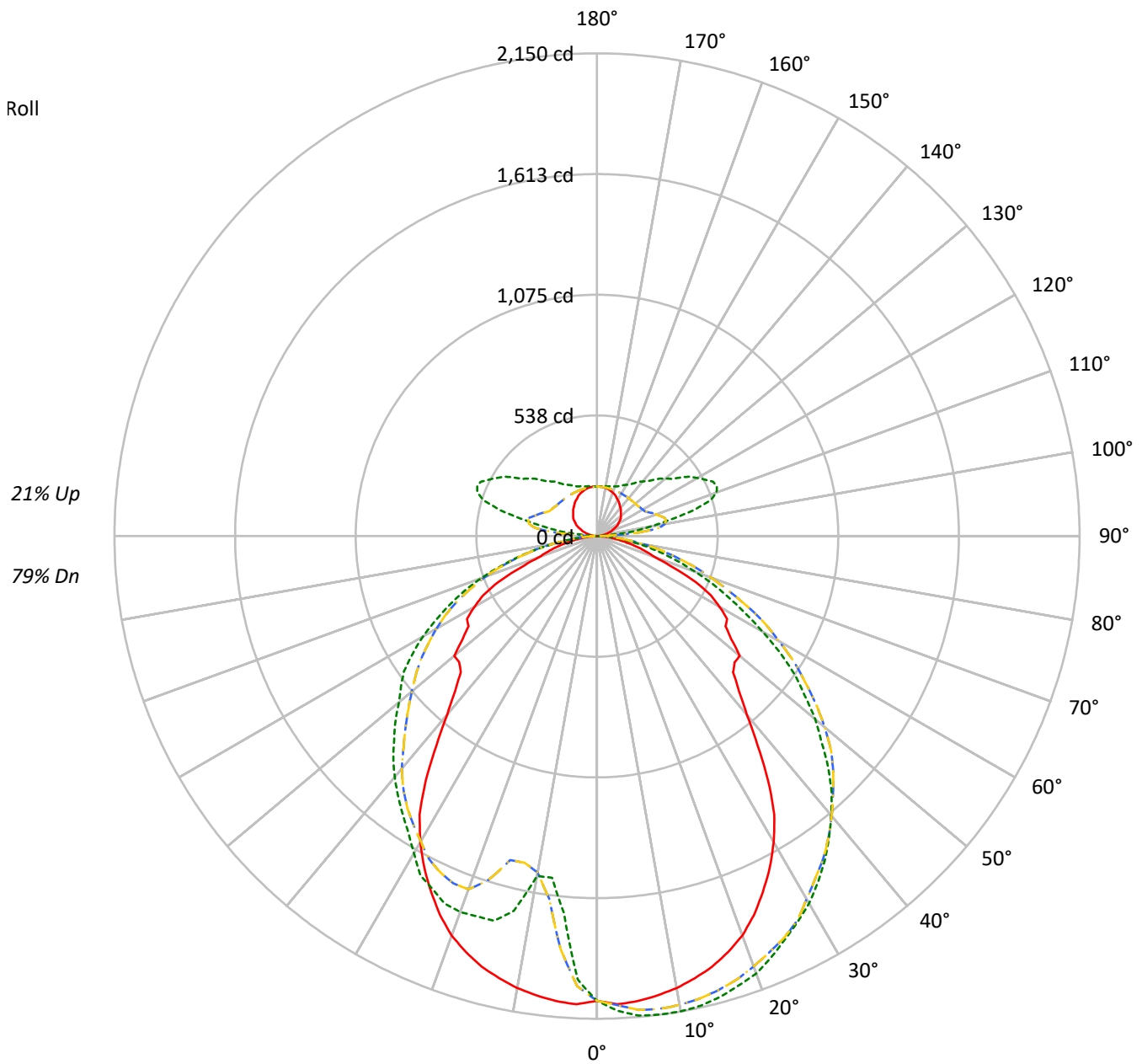
Test Method: LM-79-2019  
Report Number: P934019  
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6800.4 lumens  
Efficiency: N/A  
Efficacy: 116.8 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	83	83	83	79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	73	72	70	67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	65	62	59	56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	57	54	50	47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	51	47	43	41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	42	37	33	31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	38	33	30	27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	32	27	24	22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	30	25	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12802	12802	12802	12802
5°	12893	12923	12893	10161
10°	12803	12730	12803	9101
15°	12658	12454	12658	10400
20°	12389	12127	12389	10421
25°	11842	11651	11842	10200
30°	11138	11255	11138	9716
35°	9924	10754	9924	9183
40°	8264	10166	8264	8780
45°	7380	9476	7380	8317
50°	7833	8654	7833	7852
55°	7364	7767	7364	7584
60°	7581	6597	7581	6946
65°	6863	5453	6863	6096
70°	4741	4346	4741	5109
75°	4143	3213	4143	3847
80°	3313	2125	3313	2313
85°	1866	1125	1866	957

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11318 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.8	2.7
10°-20°	530.4	7.8
20°-30°	819.9	12.1
30°-40°	978.8	14.4
40°-50°	984.5	14.5
50°-60°	856.7	12.6
60°-70°	607.4	8.9
70°-80°	321.3	4.7
80°-90°	80.9	1.2
90°-100°	107.8	1.6
100°-110°	283.4	4.2
110°-120°	293.9	4.3
120°-130°	235.7	3.5
130°-140°	185.0	2.7
140°-150°	142.0	2.1
150°-160°	102.2	1.5
160°-170°	62.6	0.9
170°-180°	21.1	0.3
0°-30°	1537.1	22.6
0°-40°	2515.9	37.0
0°-60°	4357.1	64.1
0°-90°	5366.7	78.9
90°-120°	685.1	10.1
90°-150°	1247.8	18.3
90°-180°	1434.0	21.1
0°-180°	6800.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2070	2070	2070	2070	2070	
5°	2079	2144	2079	1686	2079	197
15°	1985	2124	1985	1774	1985	559
25°	1748	1981	1748	1735	1748	803
35°	1330	1768	1330	1510	1330	822
45°	858	1457	858	1278	858	687
55°	699	1075	699	1050	699	642
65°	486	648	486	724	486	464
75°	184	307	184	368	184	194
85°	31	78	31	67	31	42
90°	2	6	2	6	2	3
95°	14	65	14	65	14	16
105°	51	444	51	444	51	54
115°	91	572	91	572	91	90
125°	126	455	126	455	126	112
135°	150	353	150	353	150	116
145°	174	286	174	286	174	109
155°	197	247	197	247	197	91
165°	213	230	213	230	213	60
175°	221	223	221	223	221	21
180°	221	221	221	221	221	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2087.2	2087.2	2098.9	2102.8	2102.8	2096.9	2091.0	2096.9	2114.5	2120.4	2118.5
5°	2079.2	2095.0	2116.5	2120.4	2124.3	2122.3	2118.5	2122.3	2141.9	2145.8	2147.8
7.5°	2063.6	2093.0	2120.4	2126.3	2132.1	2126.3	2124.3	2128.3	2147.8	2151.8	2151.8
10°	2044.1	2085.2	2116.5	2120.4	2126.3	2120.4	2120.4	2128.3	2147.8	2151.8	2153.6
12.5°	2016.6	2073.4	2102.8	2106.7	2114.5	2112.5	2110.6	2118.5	2138.0	2141.9	2141.9
15°	1985.3	2051.9	2079.2	2083.2	2096.9	2093.0	2093.0	2100.8	2122.3	2128.3	2126.3
17.5°	1942.2	2024.4	2055.8	2061.7	2071.4	2069.5	2071.4	2079.2	2098.9	2102.8	2104.7
20°	1893.3	1987.3	2024.4	2030.3	2040.1	2040.1	2040.1	2049.9	2069.5	2077.4	2077.4
22.5°	1826.7	1948.1	1987.3	1991.2	2003.0	2003.0	2006.8	2020.6	2038.1	2040.1	2040.1
25°	1748.4	1905.1	1938.4	1950.0	1961.8	1967.7	1973.5	1981.4	1987.3	1985.3	1987.3
27.5°	1666.2	1850.2	1893.3	1901.1	1916.8	1922.6	1930.5	1932.4	1934.4	1940.2	1936.4
30°	1574.2	1773.9	1838.5	1846.3	1871.8	1875.6	1867.8	1871.8	1881.5	1885.5	1889.4
32.5°	1470.3	1660.3	1781.7	1799.3	1822.8	1811.0	1809.1	1815.0	1830.7	1830.7	1834.5
35°	1329.5	1572.2	1728.8	1744.5	1762.1	1748.4	1756.3	1758.1	1767.9	1773.9	1771.9
37.5°	1174.7	1495.8	1674.0	1685.7	1699.5	1681.9	1693.5	1699.5	1707.3	1703.4	1703.4
40°	1037.7	1376.4	1609.4	1617.3	1629.0	1615.3	1627.0	1630.9	1634.8	1630.9	1629.0
42.5°	935.8	1245.2	1540.9	1550.7	1542.9	1552.6	1556.5	1564.4	1558.5	1550.7	1550.7
45°	857.6	1210.0	1466.5	1478.2	1466.5	1482.1	1488.0	1488.0	1470.3	1466.5	1464.5
47.5°	832.1	1139.5	1392.1	1392.1	1386.2	1405.7	1415.5	1401.9	1384.2	1378.4	1378.4
50°	830.1	1061.2	1290.2	1282.4	1309.8	1333.3	1323.5	1309.8	1296.2	1274.6	1274.6
52.5°	753.7	965.3	1159.0	1188.5	1231.5	1245.2	1229.6	1215.8	1192.3	1182.5	1174.7
55°	699.0	865.4	1039.7	1098.4	1143.4	1161.0	1131.7	1117.9	1082.7	1076.8	1073.0
57.5°	687.3	720.5	930.0	1004.4	1059.2	1057.3	1039.7	1014.2	984.8	978.9	977.0
60°	630.4	520.8	812.5	900.7	957.4	951.5	935.8	912.4	885.0	881.1	877.1
62.5°	571.7	377.9	679.3	779.2	859.6	857.6	843.9	808.6	789.0	779.2	771.4
65°	485.6	317.1	483.6	648.0	763.6	767.5	738.1	712.6	691.1	679.3	677.5
67.5°	370.0	258.5	326.9	540.3	671.5	667.7	630.4	618.7	591.3	585.4	573.6
70°	274.1	172.3	227.1	438.6	581.5	571.7	542.3	528.7	503.2	489.5	481.6
72.5°	227.1	139.0	166.4	340.7	489.5	477.7	452.3	436.6	415.1	403.3	395.5
75°	184.1	146.8	127.3	252.5	397.5	389.7	366.2	350.4	332.9	317.1	319.1
77.5°	135.1	137.0	101.8	186.0	315.2	303.5	289.8	270.2	262.3	246.7	246.7
80°	101.8	107.7	76.4	127.3	227.1	227.1	215.4	201.7	187.9	180.1	180.1
82.5°	68.6	68.6	56.8	80.2	154.7	148.8	141.0	137.0	129.2	125.3	125.3
85°	31.3	39.1	35.3	48.9	84.2	88.1	88.1	84.2	82.2	78.3	80.2
87.5°	9.8	17.6	21.5	27.4	43.1	45.1	47.0	47.0	47.0	48.9	48.9
90°	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9	28.2	27.1
95°	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7	95.7	92.4
97.5°	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0	221.0	214.6
100°	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9	310.3	302.6
102.5°	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5	386.7	380.1
105°	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6	475.7	472.2
107.5°	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6	522.1	522.9
110°	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5	533.9	537.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0	526.3	531.9
115°	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4	500.6	508.5
117.5°	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1	465.2	473.8
120°	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7	441.3	449.8
122.5°	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6	417.4	425.8
125°	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4	385.8	393.5
127.5°	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4	360.4	366.9
130°	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2	344.3	350.3
132.5°	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8	330.7	336.0
135°	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4	311.4	316.1
137.5°	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8	297.2	300.9
140°	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8	285.7	289.3
142.5°	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5	277.7	280.8
145°	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9	265.7	267.9
147.5°	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1	255.6	257.5
150°	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3	249.8	251.3
152.5°	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2	245.2	246.4
155°	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6	239.7	240.5
157.5°	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4	234.9	235.5
160°	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8	232.6	232.9
162.5°	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4	230.4	230.7
165°	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1	226.9	227.2
167.5°	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6	225.5	225.6
170°	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6	225.5	225.5
172.5°	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8	224.3	224.2
175°	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7	222.7	222.7
177.5°	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6	222.4	222.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2122.3	2116.5	2122.3	2118.5	2120.4	2114.5	2096.9	2091.0	2096.9	2102.8	2102.8
5°	2147.8	2143.9	2147.8	2147.8	2145.8	2141.9	2122.3	2118.5	2122.3	2124.3	2120.4
7.5°	2155.6	2149.8	2155.6	2151.8	2151.8	2147.8	2128.3	2124.3	2126.3	2132.1	2126.3
10°	2155.6	2149.8	2155.6	2153.6	2151.8	2147.8	2128.3	2120.4	2120.4	2126.3	2120.4
12.5°	2145.8	2141.9	2145.8	2141.9	2141.9	2138.0	2118.5	2110.6	2112.5	2114.5	2106.7
15°	2130.2	2124.3	2130.2	2126.3	2128.3	2122.3	2100.8	2093.0	2093.0	2096.9	2083.2
17.5°	2106.7	2098.9	2106.7	2104.7	2102.8	2098.9	2079.2	2071.4	2069.5	2071.4	2061.7
20°	2079.2	2073.4	2079.2	2077.4	2077.4	2069.5	2049.9	2040.1	2040.1	2040.1	2030.3
22.5°	2036.2	2030.3	2036.2	2040.1	2040.1	2038.1	2020.6	2006.8	2003.0	2003.0	1991.2
25°	1987.3	1981.4	1987.3	1987.3	1985.3	1987.3	1981.4	1973.5	1967.7	1961.8	1950.0
27.5°	1940.2	1936.4	1940.2	1936.4	1940.2	1934.4	1932.4	1930.5	1922.6	1916.8	1901.1
30°	1893.3	1889.4	1893.3	1889.4	1885.5	1881.5	1871.8	1867.8	1875.6	1871.8	1846.3
32.5°	1834.5	1830.7	1834.5	1834.5	1830.7	1830.7	1815.0	1809.1	1811.0	1822.8	1799.3
35°	1773.9	1767.9	1773.9	1771.9	1773.9	1767.9	1758.1	1756.3	1748.4	1762.1	1744.5
37.5°	1703.4	1697.5	1703.4	1703.4	1703.4	1707.3	1699.5	1693.5	1681.9	1699.5	1685.7
40°	1630.9	1623.1	1630.9	1629.0	1630.9	1634.8	1630.9	1627.0	1615.3	1629.0	1617.3
42.5°	1548.7	1546.7	1548.7	1550.7	1550.7	1558.5	1564.4	1556.5	1552.6	1542.9	1550.7
45°	1460.6	1456.7	1460.6	1464.5	1466.5	1470.3	1488.0	1488.0	1482.1	1466.5	1478.2
47.5°	1366.6	1356.8	1366.6	1378.4	1378.4	1384.2	1401.9	1415.5	1405.7	1386.2	1392.1
50°	1266.7	1268.7	1266.7	1274.6	1274.6	1296.2	1309.8	1323.5	1333.3	1309.8	1282.4
52.5°	1168.9	1166.9	1168.9	1174.7	1182.5	1192.3	1215.8	1229.6	1245.2	1231.5	1188.5
55°	1071.0	1074.8	1071.0	1073.0	1076.8	1082.7	1117.9	1131.7	1161.0	1143.4	1098.4
57.5°	973.1	967.2	973.1	977.0	978.9	984.8	1014.2	1039.7	1057.3	1059.2	1004.4
60°	859.6	851.7	859.6	877.1	881.1	885.0	912.4	935.8	951.5	957.4	900.7
62.5°	759.7	745.9	759.7	771.4	779.2	789.0	808.6	843.9	857.6	859.6	779.2
65°	654.0	648.0	654.0	677.5	679.3	691.1	712.6	738.1	767.5	763.6	648.0
67.5°	558.0	558.0	558.0	573.6	585.4	591.3	618.7	630.4	667.7	671.5	540.3
70°	469.9	467.9	469.9	481.6	489.5	503.2	528.7	542.3	571.7	581.5	438.6
72.5°	385.7	383.7	385.7	395.5	403.3	415.1	436.6	452.3	477.7	489.5	340.7
75°	311.3	307.4	311.3	319.1	317.1	332.9	350.4	366.2	389.7	397.5	252.5
77.5°	238.9	238.9	238.9	246.7	246.7	262.3	270.2	289.8	303.5	315.2	186.0
80°	178.1	176.3	178.1	180.1	180.1	187.9	201.7	215.4	227.1	227.1	127.3
82.5°	125.3	121.4	125.3	125.3	125.3	129.2	137.0	141.0	148.8	154.7	80.2
85°	78.3	78.3	78.3	80.2	78.3	82.2	84.2	88.1	88.1	84.2	48.9
87.5°	50.9	48.9	50.9	48.9	48.9	47.0	47.0	47.0	45.1	43.1	27.4
90°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7	6.5	4.1
92.5°	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8	40.3	28.7
95°	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8	99.1	55.8
97.5°	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7	133.5	61.3
100°	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8	146.0	65.9
102.5°	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0	151.8	70.5
105°	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8	156.0	77.4
107.5°	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3	156.8	87.4
110°	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0	155.6	93.1





TEST NUMBER: P934019

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0	155.6	99.9
115°	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6	157.1	110.2
117.5°	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2	160.0	120.0
120°	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1	162.4	125.9
122.5°	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0	165.8	132.7
125°	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1	170.4	141.5
127.5°	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5	175.0	149.9
130°	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8	178.3	155.5
132.5°	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1	181.1	160.2
135°	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9	184.1	165.5
137.5°	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1	188.5	172.3
140°	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3	191.3	177.0
142.5°	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0	193.5	180.3
145°	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0	196.5	185.5
147.5°	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5	200.9	192.1
150°	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3	203.1	195.5
152.5°	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8	204.6	197.7
155°	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9	207.9	202.6
157.5°	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0	211.1	207.5
160°	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5	212.6	209.8
162.5°	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0	214.2	212.1
165°	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8	216.5	215.5
167.5°	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3	218.2	217.5
170°	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8	219.7	219.6
172.5°	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1	220.7	221.2
177.5°	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3	220.8	221.2
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P934019

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2098.9	2087.2	2087.2	2067.5	2059.7	2053.9	2044.1	2014.6	2006.8	1999.0	2010.8
5°	2116.5	2095.0	2079.2	2044.1	2014.6	2003.0	1965.7	1895.3	1848.3	1813.0	1793.4
7.5°	2120.4	2093.0	2063.6	2008.8	1938.4	1906.9	1793.4	1664.2	1629.0	1597.6	1578.0
10°	2116.5	2085.2	2044.1	1961.8	1795.4	1740.6	1627.0	1542.9	1521.3	1515.4	1521.3
12.5°	2102.8	2073.4	2016.6	1879.6	1646.6	1609.4	1542.9	1493.9	1490.0	1499.8	1552.6
15°	2079.2	2051.9	1985.3	1769.9	1564.4	1536.9	1490.0	1472.3	1493.9	1562.4	1721.0
17.5°	2055.8	2024.4	1942.2	1662.2	1501.7	1482.1	1448.8	1484.1	1605.5	1697.5	1750.3
20°	2024.4	1987.3	1893.3	1584.0	1456.7	1439.0	1423.4	1582.0	1674.0	1707.3	1736.6
22.5°	1987.3	1948.1	1826.7	1529.1	1409.7	1395.9	1405.7	1636.8	1674.0	1697.5	1723.0
25°	1938.4	1905.1	1748.4	1486.1	1372.5	1356.8	1394.1	1630.9	1652.4	1658.4	1709.2
27.5°	1893.3	1850.2	1666.2	1446.9	1327.5	1321.5	1403.8	1605.5	1621.1	1627.0	1681.9
30°	1838.5	1773.9	1574.2	1405.7	1280.4	1278.5	1405.7	1574.2	1570.2	1585.9	1640.7
32.5°	1781.7	1660.3	1470.3	1354.8	1235.4	1233.5	1392.1	1527.2	1523.2	1544.7	1585.9
35°	1728.8	1572.2	1329.5	1296.2	1178.7	1180.6	1358.8	1472.3	1474.3	1493.9	1519.3
37.5°	1674.0	1495.8	1174.7	1231.5	1123.8	1123.8	1313.7	1421.4	1417.5	1423.4	1458.6
40°	1609.4	1376.4	1037.7	1147.4	1073.0	1067.0	1258.9	1366.6	1352.9	1351.0	1399.9
42.5°	1540.9	1245.2	935.8	1035.7	1014.2	1006.4	1192.3	1300.0	1274.6	1280.4	1343.1
45°	1466.5	1210.0	857.6	875.2	953.5	947.6	1119.9	1223.6	1206.1	1221.8	1286.4
47.5°	1392.1	1139.5	832.1	726.4	888.9	886.9	1039.7	1149.2	1139.5	1155.2	1223.6
50°	1290.2	1061.2	830.1	622.6	816.5	824.3	943.7	1076.8	1076.8	1090.6	1163.0
52.5°	1159.0	965.3	753.7	563.9	732.2	755.7	859.6	1014.2	1018.1	1031.8	1096.4
55°	1039.7	865.4	699.0	518.8	632.4	683.3	777.3	949.6	957.4	971.1	1029.9
57.5°	930.0	720.5	687.3	465.9	540.3	589.3	704.8	886.9	890.9	902.6	959.3
60°	812.5	520.8	630.4	409.2	460.1	497.3	638.2	812.5	826.3	834.1	883.0
62.5°	679.3	377.9	571.7	370.0	421.0	428.8	583.4	742.1	759.7	765.5	794.9
65°	483.6	317.1	485.6	336.7	379.8	381.8	524.7	669.6	685.3	695.1	716.6
67.5°	326.9	258.5	370.0	305.4	348.5	350.4	467.9	585.4	606.9	614.7	628.5
70°	227.1	172.3	274.1	272.2	313.3	317.1	407.3	509.0	528.7	534.5	542.3
72.5°	166.4	139.0	227.1	244.7	276.0	280.0	344.6	422.9	442.5	448.4	452.3
75°	127.3	146.8	184.1	213.4	234.9	236.9	282.0	344.6	358.2	362.2	364.2
77.5°	101.8	137.0	135.1	172.3	191.9	187.9	221.2	266.3	278.0	278.0	278.0
80°	76.4	107.7	101.8	123.3	141.0	137.0	158.6	189.9	193.8	197.7	195.8
82.5°	56.8	68.6	68.6	78.3	94.0	90.1	105.7	123.3	123.3	123.3	127.3
85°	35.3	39.1	31.3	41.1	52.9	50.9	58.8	66.6	68.6	68.6	64.6
87.5°	21.5	17.6	9.8	15.7	23.5	23.5	27.4	29.3	27.4	27.4	27.4
90°	3.9	2.7	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5
92.5°	26.1	16.0	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9
95°	51.2	32.7	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7
97.5°	57.2	40.9	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0
100°	62.2	47.4	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9
102.5°	67.1	53.4	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5
105°	74.4	62.7	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6
107.5°	84.7	73.8	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6
110°	90.6	80.8	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5



TEST NUMBER: P934019

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	97.5	88.2	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0
115°	108.0	99.4	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4
117.5°	118.1	110.3	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1
120°	124.0	116.7	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7
122.5°	130.8	123.4	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6
125°	139.8	133.0	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4
127.5°	148.2	141.3	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4
130°	153.6	146.3	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2
132.5°	158.3	151.0	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8
135°	163.8	157.1	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4
137.5°	170.6	164.0	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8
140°	175.4	169.2	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8
142.5°	178.9	173.2	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5
145°	184.3	179.3	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9
147.5°	190.9	186.0	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1
150°	194.4	190.0	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3
152.5°	196.9	193.5	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2
155°	202.0	199.6	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6
157.5°	206.9	204.5	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4
160°	209.3	207.5	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8
162.5°	211.7	210.3	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4
165°	215.2	213.9	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1
167.5°	217.3	216.7	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6
170°	219.5	218.9	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6
172.5°	219.8	219.6	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8
175°	221.2	221.2	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7
177.5°	221.2	221.2	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P934019  
 CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	1997.0	1991.2	1999.0	1977.5	1999.0	1991.2	1997.0	2010.8	1999.0	2006.8	2014.6
5°	1752.3	1742.5	1711.2	1685.7	1711.2	1742.5	1752.3	1793.4	1813.0	1848.3	1895.3
7.5°	1566.3	1558.5	1550.7	1535.0	1550.7	1558.5	1566.3	1578.0	1597.6	1629.0	1664.2
10°	1525.2	1527.2	1538.9	1536.9	1538.9	1527.2	1525.2	1521.3	1515.4	1521.3	1542.9
12.5°	1630.9	1648.6	1713.2	1709.2	1713.2	1648.6	1630.9	1552.6	1499.8	1490.0	1493.9
15°	1752.3	1758.1	1771.9	1773.9	1771.9	1758.1	1752.3	1721.0	1562.4	1493.9	1472.3
17.5°	1764.1	1766.0	1775.8	1775.8	1775.8	1766.0	1764.1	1750.3	1697.5	1605.5	1484.1
20°	1754.3	1758.1	1777.8	1781.7	1777.8	1758.1	1754.3	1736.6	1707.3	1674.0	1582.0
22.5°	1750.3	1758.1	1773.9	1771.9	1773.9	1758.1	1750.3	1723.0	1697.5	1674.0	1636.8
25°	1730.8	1730.8	1732.8	1734.7	1732.8	1730.8	1730.8	1709.2	1658.4	1652.4	1630.9
27.5°	1689.7	1693.5	1705.3	1703.4	1705.3	1693.5	1689.7	1681.9	1627.0	1621.1	1605.5
30°	1652.4	1648.6	1638.8	1630.9	1638.8	1648.6	1652.4	1640.7	1585.9	1570.2	1574.2
32.5°	1589.8	1580.0	1570.2	1564.4	1570.2	1580.0	1589.8	1585.9	1544.7	1523.2	1527.2
35°	1515.4	1517.4	1515.4	1509.6	1515.4	1517.4	1515.4	1519.3	1493.9	1474.3	1472.3
37.5°	1462.5	1466.5	1464.5	1456.7	1464.5	1466.5	1462.5	1458.6	1423.4	1417.5	1421.4
40°	1407.7	1409.7	1407.7	1401.9	1407.7	1409.7	1407.7	1399.9	1351.0	1352.9	1366.6
42.5°	1354.8	1352.9	1347.0	1343.1	1347.0	1352.9	1354.8	1343.1	1280.4	1274.6	1300.0
45°	1294.2	1296.2	1284.4	1278.5	1284.4	1296.2	1294.2	1286.4	1221.8	1206.1	1223.6
47.5°	1233.5	1233.5	1223.6	1217.8	1223.6	1233.5	1233.5	1223.6	1155.2	1139.5	1149.2
50°	1168.9	1166.9	1153.2	1151.2	1153.2	1166.9	1168.9	1163.0	1090.6	1076.8	1076.8
52.5°	1094.5	1094.5	1096.4	1100.3	1096.4	1094.5	1094.5	1096.4	1031.8	1018.1	1014.2
55°	1029.9	1031.8	1045.5	1049.5	1045.5	1031.8	1029.9	1029.9	971.1	957.4	949.6
57.5°	963.3	963.3	973.1	973.1	973.1	963.3	963.3	959.3	902.6	890.9	886.9
60°	886.9	890.9	898.7	896.7	898.7	890.9	886.9	883.0	834.1	826.3	812.5
62.5°	806.6	810.6	812.5	808.6	812.5	810.6	806.6	794.9	765.5	759.7	742.1
65°	722.4	726.4	728.4	724.4	728.4	726.4	722.4	716.6	695.1	685.3	669.6
67.5°	636.3	634.4	632.4	640.2	632.4	634.4	636.3	628.5	614.7	606.9	585.4
70°	548.2	548.2	546.3	550.1	546.3	548.2	548.2	542.3	534.5	528.7	509.0
72.5°	454.2	452.3	460.1	454.2	460.1	452.3	454.2	452.3	448.4	442.5	422.9
75°	362.2	366.2	362.2	368.1	362.2	366.2	362.2	364.2	362.2	358.2	344.6
77.5°	276.0	280.0	276.0	276.0	276.0	280.0	276.0	278.0	278.0	278.0	266.3
80°	195.8	193.8	193.8	191.9	193.8	193.8	195.8	195.8	197.7	193.8	189.9
82.5°	125.3	123.3	123.3	127.3	123.3	123.3	125.3	127.3	123.3	123.3	123.3
85°	68.6	70.4	66.6	66.6	66.6	70.4	68.6	64.6	68.6	68.6	66.6
87.5°	25.5	23.5	23.5	23.5	23.5	23.5	25.5	27.4	27.4	27.4	29.3
90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7
92.5°	28.2	27.1	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8
95°	95.7	92.4	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8
97.5°	221.0	214.6	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7
100°	310.3	302.6	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8
102.5°	386.7	380.1	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0
105°	475.7	472.2	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8
107.5°	522.1	522.9	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3
110°	533.9	537.6	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	526.3	531.9	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0
115°	500.6	508.5	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6
117.5°	465.2	473.8	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2
120°	441.3	449.8	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1
122.5°	417.4	425.8	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0
125°	385.8	393.5	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1
127.5°	360.4	366.9	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5
130°	344.3	350.3	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8
132.5°	330.7	336.0	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1
135°	311.4	316.1	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9
137.5°	297.2	300.9	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1
140°	285.7	289.3	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3
142.5°	277.7	280.8	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0
145°	265.7	267.9	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0
147.5°	255.6	257.5	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5
150°	249.8	251.3	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3
152.5°	245.2	246.4	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8
155°	239.7	240.5	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9
157.5°	234.9	235.5	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0
160°	232.6	232.9	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5
162.5°	230.4	230.7	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0
165°	226.9	227.2	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8
167.5°	225.5	225.6	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3
170°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8
172.5°	224.3	224.2	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1
177.5°	222.4	222.3	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2044.1	2053.9	2059.7	2067.5	2087.2
5°	1965.7	2003.0	2014.6	2044.1	2079.2
7.5°	1793.4	1906.9	1938.4	2008.8	2063.6
10°	1627.0	1740.6	1795.4	1961.8	2044.1
12.5°	1542.9	1609.4	1646.6	1879.6	2016.6
15°	1490.0	1536.9	1564.4	1769.9	1985.3
17.5°	1448.8	1482.1	1501.7	1662.2	1942.2
20°	1423.4	1439.0	1456.7	1584.0	1893.3
22.5°	1405.7	1395.9	1409.7	1529.1	1826.7
25°	1394.1	1356.8	1372.5	1486.1	1748.4
27.5°	1403.8	1321.5	1327.5	1446.9	1666.2
30°	1405.7	1278.5	1280.4	1405.7	1574.2
32.5°	1392.1	1233.5	1235.4	1354.8	1470.3
35°	1358.8	1180.6	1178.7	1296.2	1329.5
37.5°	1313.7	1123.8	1123.8	1231.5	1174.7
40°	1258.9	1067.0	1073.0	1147.4	1037.7
42.5°	1192.3	1006.4	1014.2	1035.7	935.8
45°	1119.9	947.6	953.5	875.2	857.6
47.5°	1039.7	886.9	888.9	726.4	832.1
50°	943.7	824.3	816.5	622.6	830.1
52.5°	859.6	755.7	732.2	563.9	753.7
55°	777.3	683.3	632.4	518.8	699.0
57.5°	704.8	589.3	540.3	465.9	687.3
60°	638.2	497.3	460.1	409.2	630.4
62.5°	583.4	428.8	421.0	370.0	571.7
65°	524.7	381.8	379.8	336.7	485.6
67.5°	467.9	350.4	348.5	305.4	370.0
70°	407.3	317.1	313.3	272.2	274.1
72.5°	344.6	280.0	276.0	244.7	227.1
75°	282.0	236.9	234.9	213.4	184.1
77.5°	221.2	187.9	191.9	172.3	135.1
80°	158.6	137.0	141.0	123.3	101.8
82.5°	105.7	90.1	94.0	78.3	68.6
85°	58.8	50.9	52.9	41.1	31.3
87.5°	27.4	23.5	23.5	15.7	9.8
90°	6.5	4.1	3.9	2.7	1.5
92.5°	40.3	28.7	26.1	16.0	5.9
95°	99.1	55.8	51.2	32.7	14.2
97.5°	133.5	61.3	57.2	40.9	24.6
100°	146.0	65.9	62.2	47.4	32.7
102.5°	151.8	70.5	67.1	53.4	39.5
105°	156.0	77.4	74.4	62.7	51.1
107.5°	156.8	87.4	84.7	73.8	62.9
110°	155.6	93.1	90.6	80.8	70.9



TEST NUMBER: P934019

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	155.6	99.9	97.5	88.2	78.8
115°	157.1	110.2	108.0	99.4	90.7
117.5°	160.0	120.0	118.1	110.3	102.5
120°	162.4	125.9	124.0	116.7	109.3
122.5°	165.8	132.7	130.8	123.4	115.9
125°	170.4	141.5	139.8	133.0	126.2
127.5°	175.0	149.9	148.2	141.3	134.5
130°	178.3	155.5	153.6	146.3	138.9
132.5°	181.1	160.2	158.3	151.0	143.6
135°	184.1	165.5	163.8	157.1	150.4
137.5°	188.5	172.3	170.6	164.0	157.4
140°	191.3	177.0	175.4	169.2	163.1
142.5°	193.5	180.3	178.9	173.2	167.6
145°	196.5	185.5	184.3	179.3	174.4
147.5°	200.9	192.1	190.9	186.0	181.2
150°	203.1	195.5	194.4	190.0	185.6
152.5°	204.6	197.7	196.9	193.5	190.3
155°	207.9	202.6	202.0	199.6	197.1
157.5°	211.1	207.5	206.9	204.5	202.1
160°	212.6	209.8	209.3	207.5	205.6
162.5°	214.2	212.1	211.7	210.3	209.0
165°	216.5	215.5	215.2	213.9	212.7
167.5°	218.2	217.5	217.3	216.7	216.1
170°	219.7	219.6	219.5	218.9	218.3
172.5°	219.8	219.8	219.8	219.6	219.5
175°	220.7	221.2	221.2	221.2	221.2
177.5°	220.8	221.2	221.2	221.2	221.2
180°	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P934019  
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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	15.99	17.19	16.66	17.87	18.66	18.82	20.02	19.48	20.70	21.48
	3H	16.50	17.57	17.17	18.26	19.08	20.19	21.27	20.86	21.95	22.78
	4H	16.70	17.72	17.40	18.42	19.25	20.65	21.66	21.34	22.36	23.20
	6H	16.84	17.78	17.55	18.49	19.34	20.95	21.88	21.66	22.59	23.44
	8H	16.85	17.74	17.57	18.47	19.33	21.03	21.92	21.75	22.65	23.51
	12H	16.83	17.69	17.56	18.41	19.29	21.08	21.93	21.80	22.66	23.54
4H	2H	17.07	18.08	17.76	18.78	19.62	19.27	20.28	19.97	20.98	21.82
	3H	18.12	18.97	18.84	19.71	20.56	20.80	21.65	21.51	22.39	23.24
	4H	18.41	19.18	19.14	19.92	20.81	21.34	22.11	22.07	22.85	23.74
	6H	18.56	19.22	19.30	19.99	20.88	21.73	22.39	22.47	23.16	24.05
	8H	18.57	19.19	19.32	19.96	20.86	21.84	22.46	22.59	23.22	24.13
	12H	18.56	19.11	19.33	19.90	20.81	21.91	22.47	22.68	23.26	24.17
8H	4H	18.89	19.52	19.64	20.28	21.18	21.50	22.12	22.25	22.88	23.78
	6H	19.17	19.69	19.95	20.49	21.39	21.95	22.46	22.73	23.26	24.17
	8H	19.21	19.67	20.01	20.48	21.40	22.10	22.56	22.89	23.36	24.28
	12H	19.21	19.62	20.01	20.41	21.39	22.21	22.62	23.01	23.41	24.39
12H	4H	18.92	19.48	19.69	20.26	21.17	21.48	22.04	22.25	22.82	23.73
	6H	19.23	19.69	20.03	20.50	21.42	21.94	22.40	22.74	23.21	24.13
	8H	19.31	19.72	20.11	20.51	21.49	22.12	22.53	22.92	23.32	24.30