

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: P933976

Luminaire Tested: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

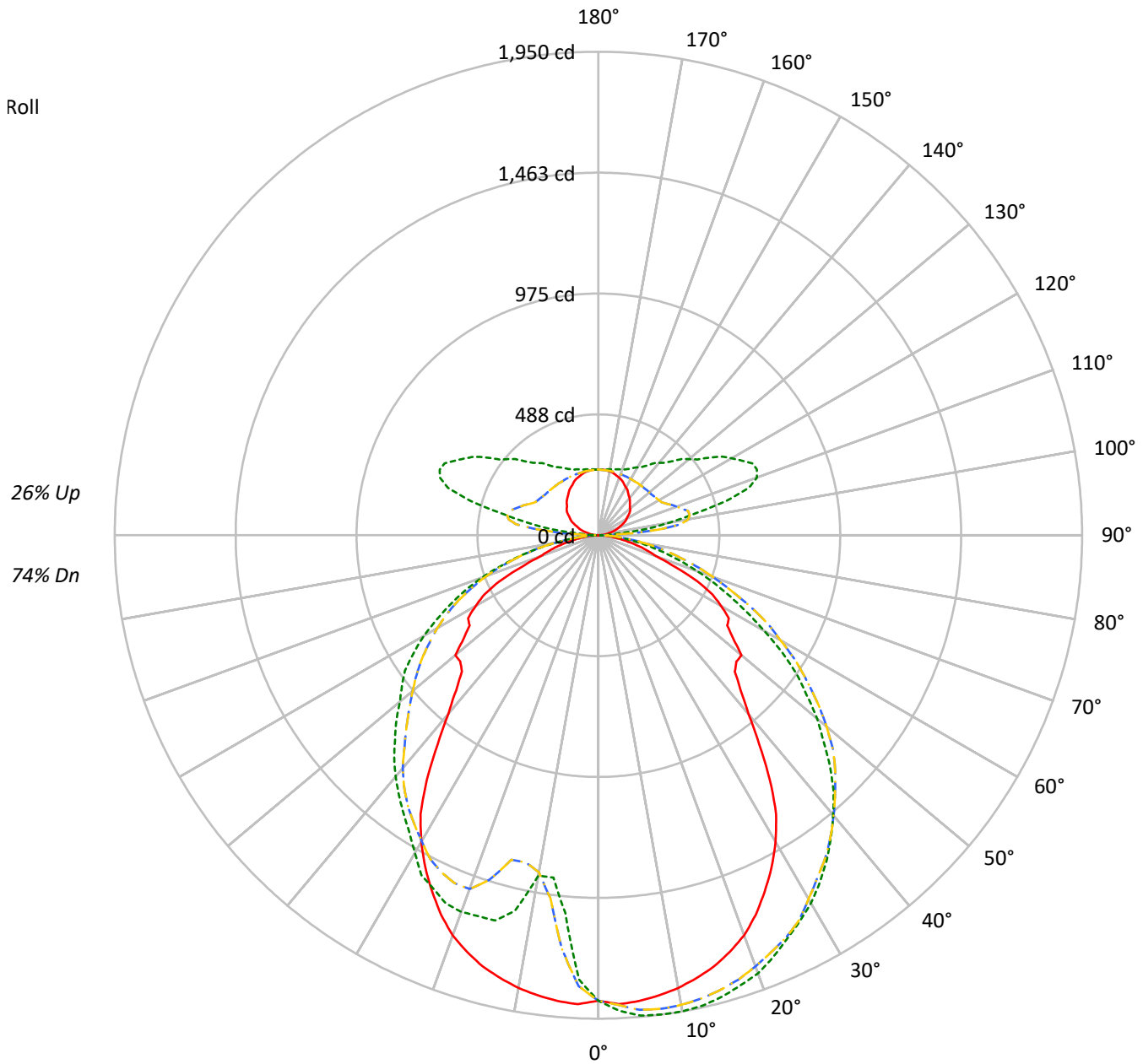
Test Method: LM-79-2019  
Report Number: P933976  
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6586.3 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 60  
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				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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74				74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62				62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52				52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44				44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38				38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33				33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29				29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26				26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23				23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21				21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				19

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

	0°	90°	180°	270°
0°	8709	8709	8709	8709
5°	8774	8791	8774	6913
10°	8716	8660	8716	6191
15°	8621	8473	8621	7075
20°	8441	8250	8441	7090
25°	8072	7926	8072	6939
30°	7594	7657	7594	6609
35°	6770	7316	6770	6247
40°	5642	6916	5642	5973
45°	5041	6447	5041	5658
50°	5355	5887	5355	5342
55°	5038	5284	5038	5159
60°	5194	4488	5194	4725
65°	4709	3710	4709	4147
70°	3260	2957	3260	3477
75°	2859	2185	2859	2617
80°	2305	1445	2305	1573
85°	1323	765	1323	651

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7725 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.4	2.6
10°-20°	481.1	7.3
20°-30°	743.7	11.3
30°-40°	887.8	13.5
40°-50°	893.0	13.6
50°-60°	777.1	11.8
60°-70°	551.0	8.4
70°-80°	291.5	4.4
80°-90°	73.6	1.1
90°-100°	129.2	2.0
100°-110°	339.7	5.2
110°-120°	352.2	5.3
120°-130°	282.5	4.3
130°-140°	221.7	3.4
140°-150°	170.1	2.6
150°-160°	122.5	1.9
160°-170°	75.0	1.1
170°-180°	25.3	0.4
0°-30°	1394.2	21.2
0°-40°	2282.0	34.6
0°-60°	3952.1	60.0
0°-90°	4868.2	73.9
90°-120°	821.0	12.5
90°-150°	1495.3	22.7
90°-180°	1718.0	26.1
0°-180°	6586.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1877	1877	1877	1877	1877	
5°	1886	1945	1886	1529	1886	179
15°	1801	1927	1801	1609	1801	507
25°	1586	1797	1586	1573	1586	728
35°	1206	1604	1206	1369	1206	746
45°	778	1321	778	1160	778	623
55°	634	975	634	952	634	583
65°	440	588	440	657	440	421
75°	167	279	167	334	167	175
85°	28	71	28	60	28	38
90°	2	7	2	7	2	3
95°	17	78	17	78	17	19
105°	61	532	61	532	61	65
115°	109	685	109	685	109	107
125°	151	545	151	545	151	134
135°	180	423	180	423	180	139
145°	209	343	209	343	209	131
155°	236	296	236	296	236	109
165°	255	275	255	275	255	72
175°	265	267	265	267	265	25
180°	265	265	265	265	265	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1
2.5°	1893.1	1893.1	1903.8	1907.3	1907.3	1902.0	1896.7	1902.0	1918.0	1923.3	1921.5
5°	1886.0	1900.2	1919.8	1923.3	1926.9	1925.1	1921.5	1925.1	1942.9	1946.4	1948.2
7.5°	1871.8	1898.5	1923.3	1928.6	1934.0	1928.6	1926.9	1930.4	1948.2	1951.7	1951.7
10°	1854.1	1891.4	1919.8	1923.3	1928.6	1923.3	1923.3	1930.4	1948.2	1951.7	1953.5
12.5°	1829.2	1880.7	1907.3	1910.9	1918.0	1916.2	1914.4	1921.5	1939.3	1942.9	1942.9
15°	1800.8	1861.2	1886.0	1889.6	1902.0	1898.5	1898.5	1905.6	1925.1	1930.4	1928.6
17.5°	1761.7	1836.3	1864.7	1870.0	1878.9	1877.1	1878.9	1886.0	1903.8	1907.3	1909.1
20°	1717.3	1802.6	1836.3	1841.6	1850.5	1850.5	1850.5	1859.4	1877.1	1884.2	1884.2
22.5°	1656.9	1767.0	1802.6	1806.1	1816.8	1816.8	1820.3	1832.7	1848.7	1850.5	1850.5
25°	1585.9	1728.0	1758.2	1768.8	1779.5	1784.8	1790.1	1797.2	1802.6	1800.8	1802.6
27.5°	1511.3	1678.2	1717.3	1724.4	1738.6	1743.9	1751.0	1752.8	1754.6	1759.9	1756.4
30°	1427.8	1609.0	1667.6	1674.7	1697.8	1701.3	1694.2	1697.8	1706.6	1710.2	1713.8
32.5°	1333.7	1506.0	1616.1	1632.1	1653.4	1642.7	1640.9	1646.3	1660.5	1660.5	1664.0
35°	1205.8	1426.0	1568.1	1582.3	1598.3	1585.9	1593.0	1594.8	1603.6	1609.0	1607.2
37.5°	1065.5	1356.8	1518.4	1529.0	1541.5	1525.5	1536.2	1541.5	1548.6	1545.0	1545.0
40°	941.3	1248.4	1459.8	1466.9	1477.5	1465.1	1475.8	1479.3	1482.9	1479.3	1477.5
42.5°	848.9	1129.4	1397.6	1406.5	1399.4	1408.3	1411.8	1418.9	1413.6	1406.5	1406.5
45°	777.9	1097.5	1330.1	1340.8	1330.1	1344.3	1349.7	1349.7	1333.7	1330.1	1328.4
47.5°	754.8	1033.6	1262.6	1262.6	1257.3	1275.1	1284.0	1271.5	1255.5	1250.2	1250.2
50°	753.0	962.6	1170.3	1163.2	1188.1	1209.4	1200.5	1188.1	1175.6	1156.1	1156.1
52.5°	683.8	875.6	1051.4	1077.9	1117.0	1129.4	1115.2	1102.8	1081.5	1072.6	1065.5
55°	634.0	785.0	943.1	996.3	1037.2	1053.2	1026.5	1014.1	982.1	976.8	973.2
57.5°	623.4	653.6	843.6	911.1	960.8	959.0	943.1	920.0	893.3	888.0	886.2
60°	571.9	472.4	737.0	817.0	868.5	863.1	848.9	827.6	802.8	799.2	795.6
62.5°	518.6	342.8	616.3	706.8	779.7	777.9	765.5	733.5	715.7	706.8	699.7
65°	440.4	287.7	438.7	587.9	692.6	696.2	669.6	646.5	626.9	616.3	614.5
67.5°	335.7	234.4	296.6	490.2	609.2	605.6	571.9	561.2	536.4	531.0	520.4
70°	248.6	156.3	206.0	397.8	527.5	518.6	492.0	479.5	456.4	444.0	436.9
72.5°	206.0	126.1	151.0	309.0	444.0	433.3	410.3	396.0	376.5	365.9	358.8
75°	166.9	133.2	115.4	229.1	360.5	353.4	332.1	317.9	301.9	287.7	289.5
77.5°	122.5	124.3	92.4	168.7	285.9	275.3	262.8	245.1	238.0	223.8	223.8
80°	92.4	97.7	69.3	115.4	206.0	206.0	195.4	182.9	170.5	163.4	163.4
82.5°	62.2	62.2	51.5	72.8	140.3	135.0	127.9	124.3	117.2	113.7	113.7
85°	28.4	35.5	32.0	44.4	76.4	79.9	79.9	76.4	74.6	71.0	72.8
87.5°	8.9	16.0	19.5	24.9	39.1	40.8	42.6	42.6	42.6	44.4	44.4
90°	1.8	3.2	4.6	5.0	7.8	11.6	13.5	12.0	9.0	6.7	6.7
92.5°	7.1	19.2	31.3	34.4	48.3	66.9	76.1	66.7	48.0	33.8	32.5
95°	17.0	39.2	61.4	66.9	118.7	187.9	222.5	198.6	150.7	114.7	110.6
97.5°	29.6	49.1	68.6	73.4	159.9	275.3	333.0	317.9	287.6	264.9	257.2
100°	39.2	56.8	74.5	78.9	174.9	302.9	366.9	368.1	370.3	372.0	362.7
102.5°	47.3	63.8	80.4	84.4	181.9	311.7	376.6	395.9	434.4	463.4	455.5
105°	61.2	75.2	89.2	92.7	187.0	312.7	375.5	418.8	505.3	570.1	565.8
107.5°	75.4	88.4	101.5	104.8	187.9	298.7	354.1	414.4	535.1	625.6	626.7
110°	85.1	96.8	108.6	111.5	186.5	286.4	336.4	403.8	538.7	639.8	644.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	94.5	105.7	116.9	119.7	186.6	275.6	320.2	389.2	527.2	630.7	637.6
115°	108.7	119.0	129.4	132.0	188.3	263.3	300.8	367.3	500.3	600.0	609.4
117.5°	122.7	132.1	141.5	143.9	191.8	255.6	287.4	347.5	467.4	557.5	568.0
120°	130.9	139.8	148.7	150.9	194.6	253.0	282.1	336.9	446.6	528.8	538.9
122.5°	138.9	147.9	156.8	159.0	198.7	251.6	278.0	327.4	426.2	500.2	510.2
125°	151.2	159.4	167.5	169.5	204.2	250.5	273.6	315.5	399.4	462.3	471.5
127.5°	161.2	169.3	177.6	179.6	209.7	249.8	269.9	305.9	377.9	431.9	439.7
130°	166.5	175.4	184.2	186.4	213.7	250.2	268.4	300.5	364.6	412.7	419.8
132.5°	172.0	180.9	189.7	191.9	217.0	250.5	267.2	295.9	353.2	396.3	402.8
135°	180.2	188.3	196.3	198.4	220.6	250.2	265.1	289.1	337.2	373.2	378.7
137.5°	188.5	196.5	204.5	206.5	225.9	251.7	264.7	285.0	325.6	356.1	360.6
140°	195.4	202.8	210.2	212.1	229.2	252.0	263.5	281.1	316.1	342.4	346.7
142.5°	200.9	207.6	214.5	216.1	231.9	253.0	263.5	278.9	309.7	332.8	336.5
145°	209.0	215.0	220.8	222.4	235.5	253.0	261.7	274.3	299.5	318.4	321.2
147.5°	217.2	223.0	228.7	230.2	240.6	254.7	261.7	271.6	291.4	306.3	308.6
150°	222.5	227.8	232.9	234.3	243.4	255.6	261.7	270.0	286.8	299.3	301.2
152.5°	228.0	231.9	235.9	236.9	245.2	256.2	261.7	268.8	283.1	293.8	295.3
155°	236.2	239.1	242.1	242.8	249.1	257.5	261.7	267.4	278.7	287.3	288.2
157.5°	242.2	245.1	247.9	248.6	253.0	258.8	261.7	266.1	274.9	281.6	282.2
160°	246.3	248.6	250.8	251.3	254.8	259.4	261.7	265.5	273.1	278.7	279.1
162.5°	250.4	252.1	253.7	254.1	256.6	260.0	261.7	264.9	271.3	276.1	276.4
165°	254.9	256.5	258.0	258.3	259.5	261.0	261.7	264.0	268.5	272.0	272.3
167.5°	259.0	259.7	260.5	260.6	261.6	262.8	263.5	265.0	268.0	270.2	270.4
170°	261.7	262.4	263.1	263.3	263.4	263.5	263.5	265.0	268.0	270.2	270.2
172.5°	263.1	263.3	263.5	263.5	263.5	263.5	263.5	264.6	267.0	268.8	268.6
175°	265.1	265.1	265.1	265.1	264.5	263.8	263.5	264.2	265.7	266.8	266.8
177.5°	265.1	265.1	265.1	265.1	264.6	264.1	263.8	264.4	265.6	266.5	266.3
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1
2.5°	1925.1	1919.8	1925.1	1921.5	1923.3	1918.0	1902.0	1896.7	1902.0	1907.3	1907.3
5°	1948.2	1944.6	1948.2	1948.2	1946.4	1942.9	1925.1	1921.5	1925.1	1926.9	1923.3
7.5°	1955.3	1950.0	1955.3	1951.7	1951.7	1948.2	1930.4	1926.9	1928.6	1934.0	1928.6
10°	1955.3	1950.0	1955.3	1953.5	1951.7	1948.2	1930.4	1923.3	1923.3	1928.6	1923.3
12.5°	1946.4	1942.9	1946.4	1942.9	1942.9	1939.3	1921.5	1914.4	1916.2	1918.0	1910.9
15°	1932.2	1926.9	1932.2	1928.6	1930.4	1925.1	1905.6	1898.5	1898.5	1902.0	1889.6
17.5°	1910.9	1903.8	1910.9	1909.1	1907.3	1903.8	1886.0	1878.9	1877.1	1878.9	1870.0
20°	1886.0	1880.7	1886.0	1884.2	1884.2	1877.1	1859.4	1850.5	1850.5	1850.5	1841.6
22.5°	1847.0	1841.6	1847.0	1850.5	1850.5	1848.7	1832.7	1820.3	1816.8	1816.8	1806.1
25°	1802.6	1797.2	1802.6	1802.6	1800.8	1802.6	1797.2	1790.1	1784.8	1779.5	1768.8
27.5°	1759.9	1756.4	1759.9	1756.4	1759.9	1754.6	1752.8	1751.0	1743.9	1738.6	1724.4
30°	1717.3	1713.8	1717.3	1713.8	1710.2	1706.6	1697.8	1694.2	1701.3	1697.8	1674.7
32.5°	1664.0	1660.5	1664.0	1664.0	1660.5	1660.5	1646.3	1640.9	1642.7	1653.4	1632.1
35°	1609.0	1603.6	1609.0	1607.2	1609.0	1603.6	1594.8	1593.0	1585.9	1598.3	1582.3
37.5°	1545.0	1539.7	1545.0	1545.0	1545.0	1548.6	1541.5	1536.2	1525.5	1541.5	1529.0
40°	1479.3	1472.2	1479.3	1477.5	1479.3	1482.9	1479.3	1475.8	1465.1	1477.5	1466.9
42.5°	1404.7	1403.0	1404.7	1406.5	1406.5	1413.6	1418.9	1411.8	1408.3	1399.4	1406.5
45°	1324.8	1321.3	1324.8	1328.4	1330.1	1333.7	1349.7	1349.7	1344.3	1330.1	1340.8
47.5°	1239.6	1230.7	1239.6	1250.2	1250.2	1255.5	1271.5	1284.0	1275.1	1257.3	1262.6
50°	1149.0	1150.8	1149.0	1156.1	1156.1	1175.6	1188.1	1200.5	1209.4	1188.1	1163.2
52.5°	1060.2	1058.5	1060.2	1065.5	1072.6	1081.5	1102.8	1115.2	1129.4	1117.0	1077.9
55°	971.5	975.0	971.5	973.2	976.8	982.1	1014.1	1026.5	1053.2	1037.2	996.3
57.5°	882.7	877.3	882.7	886.2	888.0	893.3	920.0	943.1	959.0	960.8	911.1
60°	779.7	772.6	779.7	795.6	799.2	802.8	827.6	848.9	863.1	868.5	817.0
62.5°	689.1	676.7	689.1	699.7	706.8	715.7	733.5	765.5	777.9	779.7	706.8
65°	593.2	587.9	593.2	614.5	616.3	626.9	646.5	669.6	696.2	692.6	587.9
67.5°	506.2	506.2	506.2	520.4	531.0	536.4	561.2	571.9	605.6	609.2	490.2
70°	426.2	424.5	426.2	436.9	444.0	456.4	479.5	492.0	518.6	527.5	397.8
72.5°	349.9	348.1	349.9	358.8	365.9	376.5	396.0	410.3	433.3	444.0	309.0
75°	282.4	278.8	282.4	289.5	287.7	301.9	317.9	332.1	353.4	360.5	229.1
77.5°	216.7	216.7	216.7	223.8	223.8	238.0	245.1	262.8	275.3	285.9	168.7
80°	161.6	159.8	161.6	163.4	163.4	170.5	182.9	195.4	206.0	206.0	115.4
82.5°	113.7	110.1	113.7	113.7	113.7	117.2	124.3	127.9	135.0	140.3	72.8
85°	71.0	71.0	71.0	72.8	71.0	74.6	76.4	79.9	79.9	76.4	44.4
87.5°	46.2	44.4	46.2	44.4	44.4	42.6	42.6	42.6	40.8	39.1	24.9
90°	6.7	6.7	6.7	6.7	6.7	9.0	12.0	13.5	11.6	7.8	5.0
92.5°	27.1	21.7	27.1	32.5	33.8	48.0	66.7	76.1	66.9	48.3	34.4
95°	94.4	78.1	94.4	110.6	114.7	150.7	198.6	222.5	187.9	118.7	66.9
97.5°	226.1	195.1	226.1	257.2	264.9	287.6	317.9	333.0	275.3	159.9	73.4
100°	325.8	288.9	325.8	362.7	372.0	370.3	368.1	366.9	302.9	174.9	78.9
102.5°	423.8	392.2	423.8	455.5	463.4	434.4	395.9	376.6	311.7	181.9	84.4
105°	548.9	531.8	548.9	565.8	570.1	505.3	418.8	375.5	312.7	187.0	92.7
107.5°	630.7	634.8	630.7	626.7	625.6	535.1	414.4	354.1	298.7	187.9	104.8
110°	661.9	679.7	661.9	644.2	639.8	538.7	403.8	336.4	286.4	186.5	111.5





TEST NUMBER: P933976

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	664.8	691.9	664.8	637.6	630.7	527.2	389.2	320.2	275.6	186.6	119.7
115°	647.2	684.8	647.2	609.4	600.0	500.3	367.3	300.8	263.3	188.3	132.0
117.5°	609.8	651.6	609.8	568.0	557.5	467.4	347.5	287.4	255.6	191.8	143.9
120°	579.6	620.3	579.6	538.9	528.8	446.6	336.9	282.1	253.0	194.6	150.9
122.5°	550.3	590.3	550.3	510.2	500.2	426.2	327.4	278.0	251.6	198.7	159.0
125°	508.5	545.4	508.5	471.5	462.3	399.4	315.5	273.6	250.5	204.2	169.5
127.5°	470.8	502.0	470.8	439.7	431.9	377.9	305.9	269.9	249.8	209.7	179.6
130°	448.6	477.4	448.6	419.8	412.7	364.6	300.5	268.4	250.2	213.7	186.4
132.5°	428.5	454.3	428.5	402.8	396.3	353.2	295.9	267.2	250.5	217.0	191.9
135°	400.9	423.1	400.9	378.7	373.2	337.2	289.1	265.1	250.2	220.6	198.4
137.5°	378.8	397.0	378.8	360.6	356.1	325.6	285.0	264.7	251.7	225.9	206.5
140°	363.6	380.7	363.6	346.7	342.4	316.1	281.1	263.5	252.0	229.2	212.1
142.5°	351.1	365.7	351.1	336.5	332.8	309.7	278.9	263.5	253.0	231.9	216.1
145°	332.3	343.3	332.3	321.2	318.4	299.5	274.3	261.7	253.0	235.5	222.4
147.5°	317.7	327.0	317.7	308.6	306.3	291.4	271.6	261.7	254.7	240.6	230.2
150°	308.7	316.1	308.7	301.2	299.3	286.8	270.0	261.7	255.6	243.4	234.3
152.5°	300.9	306.4	300.9	295.3	293.8	283.1	268.8	261.7	256.2	245.2	236.9
155°	291.9	295.6	291.9	288.2	287.3	278.7	267.4	261.7	257.5	249.1	242.8
157.5°	284.9	287.4	284.9	282.2	281.6	274.9	266.1	261.7	258.8	253.0	248.6
160°	280.6	282.1	280.6	279.1	278.7	273.1	265.5	261.7	259.4	254.8	251.3
162.5°	277.9	279.3	277.9	276.4	276.1	271.3	264.9	261.7	260.0	256.6	254.1
165°	273.9	275.4	273.9	272.3	272.0	268.5	264.0	261.7	261.0	259.5	258.3
167.5°	271.0	271.6	271.0	270.4	270.2	268.0	265.0	263.5	262.8	261.6	260.6
170°	270.2	270.2	270.2	270.2	270.2	268.0	265.0	263.5	263.5	263.4	263.3
172.5°	268.1	267.6	268.1	268.6	268.8	267.0	264.6	263.5	263.5	263.5	263.5
175°	266.8	266.8	266.8	266.8	266.8	265.7	264.2	263.5	263.8	264.5	265.1
177.5°	265.7	265.1	265.7	266.3	266.5	265.6	264.4	263.8	264.1	264.6	265.1
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



TEST NUMBER: P933976

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1
2.5°	1903.8	1893.1	1893.1	1875.4	1868.3	1862.9	1854.1	1827.4	1820.3	1813.2	1823.9
5°	1919.8	1900.2	1886.0	1854.1	1827.4	1816.8	1783.0	1719.1	1676.5	1644.5	1626.7
7.5°	1923.3	1898.5	1871.8	1822.1	1758.2	1729.7	1626.7	1509.5	1477.5	1449.1	1431.4
10°	1919.8	1891.4	1854.1	1779.5	1628.5	1578.8	1475.8	1399.4	1379.9	1374.5	1379.9
12.5°	1907.3	1880.7	1829.2	1704.9	1493.5	1459.8	1399.4	1355.0	1351.4	1360.3	1408.3
15°	1886.0	1861.2	1800.8	1605.4	1418.9	1394.1	1351.4	1335.5	1355.0	1417.2	1561.0
17.5°	1864.7	1836.3	1761.7	1507.7	1362.1	1344.3	1314.2	1346.1	1456.2	1539.7	1587.7
20°	1836.3	1802.6	1717.3	1436.7	1321.3	1305.3	1291.1	1434.9	1518.4	1548.6	1575.2
22.5°	1802.6	1767.0	1656.9	1387.0	1278.6	1266.2	1275.1	1484.6	1518.4	1539.7	1562.8
25°	1758.2	1728.0	1585.9	1347.9	1244.9	1230.7	1264.4	1479.3	1498.9	1504.2	1550.4
27.5°	1717.3	1678.2	1511.3	1312.4	1204.0	1198.7	1273.3	1456.2	1470.4	1475.8	1525.5
30°	1667.6	1609.0	1427.8	1275.1	1161.4	1159.6	1275.1	1427.8	1424.3	1438.5	1488.2
32.5°	1616.1	1506.0	1333.7	1228.9	1120.6	1118.8	1262.6	1385.2	1381.6	1401.2	1438.5
35°	1568.1	1426.0	1205.8	1175.6	1069.1	1070.8	1232.5	1335.5	1337.2	1355.0	1378.1
37.5°	1518.4	1356.8	1065.5	1117.0	1019.4	1019.4	1191.6	1289.3	1285.7	1291.1	1323.0
40°	1459.8	1248.4	941.3	1040.7	973.2	967.9	1141.9	1239.6	1227.1	1225.4	1269.8
42.5°	1397.6	1129.4	848.9	939.5	920.0	912.9	1081.5	1179.2	1156.1	1161.4	1218.2
45°	1330.1	1097.5	777.9	793.9	864.9	859.6	1015.9	1109.9	1093.9	1108.1	1166.7
47.5°	1262.6	1033.6	754.8	658.9	806.3	804.5	943.1	1042.5	1033.6	1047.8	1109.9
50°	1170.3	962.6	753.0	564.8	740.6	747.7	856.0	976.8	976.8	989.2	1054.9
52.5°	1051.4	875.6	683.8	511.5	664.2	685.5	779.7	920.0	923.5	936.0	994.6
55°	943.1	785.0	634.0	470.6	573.6	619.8	705.1	861.4	868.5	880.9	934.2
57.5°	843.6	653.6	623.4	422.7	490.2	534.6	639.4	804.5	808.1	818.7	870.2
60°	737.0	472.4	571.9	371.2	417.4	451.1	579.0	737.0	749.5	756.6	801.0
62.5°	616.3	342.8	518.6	335.7	381.8	388.9	529.2	673.1	689.1	694.4	721.1
65°	438.7	287.7	440.4	305.5	344.5	346.3	476.0	607.4	621.6	630.5	650.0
67.5°	296.6	234.4	335.7	277.1	316.1	317.9	424.5	531.0	550.6	557.7	570.1
70°	206.0	156.3	248.6	246.9	284.2	287.7	369.4	461.8	479.5	484.8	492.0
72.5°	151.0	126.1	206.0	222.0	250.4	254.0	312.6	383.6	401.4	406.7	410.3
75°	115.4	133.2	166.9	193.6	213.1	214.9	255.7	312.6	325.0	328.6	330.3
77.5°	92.4	124.3	122.5	156.3	174.0	170.5	200.7	241.5	252.2	252.2	252.2
80°	69.3	97.7	92.4	111.9	127.9	124.3	143.9	172.3	175.8	179.4	177.6
82.5°	51.5	62.2	62.2	71.0	85.2	81.7	95.9	111.9	111.9	111.9	115.4
85°	32.0	35.5	28.4	37.3	48.0	46.2	53.3	60.4	62.2	62.2	58.6
87.5°	19.5	16.0	8.9	14.2	21.3	21.3	24.9	26.6	24.9	24.9	24.9
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.8	11.6	13.5	12.0	9.0
92.5°	31.3	19.2	7.1	19.2	31.3	34.4	48.3	66.9	76.1	66.7	48.0
95°	61.4	39.2	17.0	39.2	61.4	66.9	118.7	187.9	222.5	198.6	150.7
97.5°	68.6	49.1	29.6	49.1	68.6	73.4	159.9	275.3	333.0	317.9	287.6
100°	74.5	56.8	39.2	56.8	74.5	78.9	174.9	302.9	366.9	368.1	370.3
102.5°	80.4	63.8	47.3	63.8	80.4	84.4	181.9	311.7	376.6	395.9	434.4
105°	89.2	75.2	61.2	75.2	89.2	92.7	187.0	312.7	375.5	418.8	505.3
107.5°	101.5	88.4	75.4	88.4	101.5	104.8	187.9	298.7	354.1	414.4	535.1
110°	108.6	96.8	85.1	96.8	108.6	111.5	186.5	286.4	336.4	403.8	538.7



TEST NUMBER: P933976

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	116.9	105.7	94.5	105.7	116.9	119.7	186.6	275.6	320.2	389.2	527.2
115°	129.4	119.0	108.7	119.0	129.4	132.0	188.3	263.3	300.8	367.3	500.3
117.5°	141.5	132.1	122.7	132.1	141.5	143.9	191.8	255.6	287.4	347.5	467.4
120°	148.7	139.8	130.9	139.8	148.7	150.9	194.6	253.0	282.1	336.9	446.6
122.5°	156.8	147.9	138.9	147.9	156.8	159.0	198.7	251.6	278.0	327.4	426.2
125°	167.5	159.4	151.2	159.4	167.5	169.5	204.2	250.5	273.6	315.5	399.4
127.5°	177.6	169.3	161.2	169.3	177.6	179.6	209.7	249.8	269.9	305.9	377.9
130°	184.2	175.4	166.5	175.4	184.2	186.4	213.7	250.2	268.4	300.5	364.6
132.5°	189.7	180.9	172.0	180.9	189.7	191.9	217.0	250.5	267.2	295.9	353.2
135°	196.3	188.3	180.2	188.3	196.3	198.4	220.6	250.2	265.1	289.1	337.2
137.5°	204.5	196.5	188.5	196.5	204.5	206.5	225.9	251.7	264.7	285.0	325.6
140°	210.2	202.8	195.4	202.8	210.2	212.1	229.2	252.0	263.5	281.1	316.1
142.5°	214.5	207.6	200.9	207.6	214.5	216.1	231.9	253.0	263.5	278.9	309.7
145°	220.8	215.0	209.0	215.0	220.8	222.4	235.5	253.0	261.7	274.3	299.5
147.5°	228.7	223.0	217.2	223.0	228.7	230.2	240.6	254.7	261.7	271.6	291.4
150°	232.9	227.8	222.5	227.8	232.9	234.3	243.4	255.6	261.7	270.0	286.8
152.5°	235.9	231.9	228.0	231.9	235.9	236.9	245.2	256.2	261.7	268.8	283.1
155°	242.1	239.1	236.2	239.1	242.1	242.8	249.1	257.5	261.7	267.4	278.7
157.5°	247.9	245.1	242.2	245.1	247.9	248.6	253.0	258.8	261.7	266.1	274.9
160°	250.8	248.6	246.3	248.6	250.8	251.3	254.8	259.4	261.7	265.5	273.1
162.5°	253.7	252.1	250.4	252.1	253.7	254.1	256.6	260.0	261.7	264.9	271.3
165°	258.0	256.5	254.9	256.5	258.0	258.3	259.5	261.0	261.7	264.0	268.5
167.5°	260.5	259.7	259.0	259.7	260.5	260.6	261.6	262.8	263.5	265.0	268.0
170°	263.1	262.4	261.7	262.4	263.1	263.3	263.4	263.5	263.5	265.0	268.0
172.5°	263.5	263.3	263.1	263.3	263.5	263.5	263.5	263.5	263.5	264.6	267.0
175°	265.1	265.1	265.1	265.1	265.1	265.1	264.5	263.8	263.5	264.2	265.7
177.5°	265.1	265.1	265.1	265.1	265.1	265.1	264.6	264.1	263.8	264.4	265.6
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



TEST NUMBER: P933976

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1	1877.1
2.5°	1811.4	1806.1	1813.2	1793.7	1813.2	1806.1	1811.4	1823.9	1813.2	1820.3	1827.4
5°	1589.4	1580.6	1552.1	1529.0	1552.1	1580.6	1589.4	1626.7	1644.5	1676.5	1719.1
7.5°	1420.7	1413.6	1406.5	1392.3	1406.5	1413.6	1420.7	1431.4	1449.1	1477.5	1509.5
10°	1383.4	1385.2	1395.8	1394.1	1395.8	1385.2	1383.4	1379.9	1374.5	1379.9	1399.4
12.5°	1479.3	1495.3	1553.9	1550.4	1553.9	1495.3	1479.3	1408.3	1360.3	1351.4	1355.0
15°	1589.4	1594.8	1607.2	1609.0	1607.2	1594.8	1589.4	1561.0	1417.2	1355.0	1335.5
17.5°	1600.1	1601.9	1610.7	1610.7	1610.7	1601.9	1600.1	1587.7	1539.7	1456.2	1346.1
20°	1591.2	1594.8	1612.5	1616.1	1612.5	1594.8	1591.2	1575.2	1548.6	1518.4	1434.9
22.5°	1587.7	1594.8	1609.0	1607.2	1609.0	1594.8	1587.7	1562.8	1539.7	1518.4	1484.6
25°	1569.9	1569.9	1571.7	1573.4	1571.7	1569.9	1569.9	1550.4	1504.2	1498.9	1479.3
27.5°	1532.6	1536.2	1546.8	1545.0	1546.8	1536.2	1532.6	1525.5	1475.8	1470.4	1456.2
30°	1498.9	1495.3	1486.4	1479.3	1486.4	1495.3	1498.9	1488.2	1438.5	1424.3	1427.8
32.5°	1442.0	1433.1	1424.3	1418.9	1424.3	1433.1	1442.0	1438.5	1401.2	1381.6	1385.2
35°	1374.5	1376.3	1374.5	1369.2	1374.5	1376.3	1374.5	1378.1	1355.0	1337.2	1335.5
37.5°	1326.6	1330.1	1328.4	1321.3	1328.4	1330.1	1326.6	1323.0	1291.1	1285.7	1289.3
40°	1276.9	1278.6	1276.9	1271.5	1276.9	1278.6	1276.9	1269.8	1225.4	1227.1	1239.6
42.5°	1228.9	1227.1	1221.8	1218.2	1221.8	1227.1	1228.9	1218.2	1161.4	1156.1	1179.2
45°	1173.8	1175.6	1165.0	1159.6	1165.0	1175.6	1173.8	1166.7	1108.1	1093.9	1109.9
47.5°	1118.8	1118.8	1109.9	1104.6	1109.9	1118.8	1118.8	1109.9	1047.8	1033.6	1042.5
50°	1060.2	1058.5	1046.1	1044.3	1046.1	1058.5	1060.2	1054.9	989.2	976.8	976.8
52.5°	992.8	992.8	994.6	998.1	994.6	992.8	992.8	994.6	936.0	923.5	920.0
55°	934.2	936.0	948.4	951.9	948.4	936.0	934.2	934.2	880.9	868.5	861.4
57.5°	873.8	873.8	882.7	882.7	882.7	873.8	873.8	870.2	818.7	808.1	804.5
60°	804.5	808.1	815.2	813.4	815.2	808.1	804.5	801.0	756.6	749.5	737.0
62.5°	731.7	735.3	737.0	733.5	737.0	735.3	731.7	721.1	694.4	689.1	673.1
65°	655.3	658.9	660.7	657.1	660.7	658.9	655.3	650.0	630.5	621.6	607.4
67.5°	577.2	575.4	573.6	580.8	573.6	575.4	577.2	570.1	557.7	550.6	531.0
70°	497.3	497.3	495.5	499.1	495.5	497.3	497.3	492.0	484.8	479.5	461.8
72.5°	412.0	410.3	417.4	412.0	417.4	410.3	412.0	410.3	406.7	401.4	383.6
75°	328.6	332.1	328.6	333.9	328.6	332.1	328.6	330.3	328.6	325.0	312.6
77.5°	250.4	254.0	250.4	250.4	250.4	254.0	250.4	252.2	252.2	252.2	241.5
80°	177.6	175.8	175.8	174.0	175.8	175.8	177.6	177.6	179.4	175.8	172.3
82.5°	113.7	111.9	111.9	115.4	111.9	111.9	113.7	115.4	111.9	111.9	111.9
85°	62.2	63.9	60.4	60.4	60.4	63.9	62.2	58.6	62.2	62.2	60.4
87.5°	23.1	21.3	21.3	21.3	21.3	21.3	23.1	24.9	24.9	24.9	26.6
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	9.0	12.0	13.5	11.6
92.5°	33.8	32.5	27.1	21.7	27.1	32.5	33.8	48.0	66.7	76.1	66.9
95°	114.7	110.6	94.4	78.1	94.4	110.6	114.7	150.7	198.6	222.5	187.9
97.5°	264.9	257.2	226.1	195.1	226.1	257.2	264.9	287.6	317.9	333.0	275.3
100°	372.0	362.7	325.8	288.9	325.8	362.7	372.0	370.3	368.1	366.9	302.9
102.5°	463.4	455.5	423.8	392.2	423.8	455.5	463.4	434.4	395.9	376.6	311.7
105°	570.1	565.8	548.9	531.8	548.9	565.8	570.1	505.3	418.8	375.5	312.7
107.5°	625.6	626.7	630.7	634.8	630.7	626.7	625.6	535.1	414.4	354.1	298.7
110°	639.8	644.2	661.9	679.7	661.9	644.2	639.8	538.7	403.8	336.4	286.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	630.7	637.6	664.8	691.9	664.8	637.6	630.7	527.2	389.2	320.2	275.6
115°	600.0	609.4	647.2	684.8	647.2	609.4	600.0	500.3	367.3	300.8	263.3
117.5°	557.5	568.0	609.8	651.6	609.8	568.0	557.5	467.4	347.5	287.4	255.6
120°	528.8	538.9	579.6	620.3	579.6	538.9	528.8	446.6	336.9	282.1	253.0
122.5°	500.2	510.2	550.3	590.3	550.3	510.2	500.2	426.2	327.4	278.0	251.6
125°	462.3	471.5	508.5	545.4	508.5	471.5	462.3	399.4	315.5	273.6	250.5
127.5°	431.9	439.7	470.8	502.0	470.8	439.7	431.9	377.9	305.9	269.9	249.8
130°	412.7	419.8	448.6	477.4	448.6	419.8	412.7	364.6	300.5	268.4	250.2
132.5°	396.3	402.8	428.5	454.3	428.5	402.8	396.3	353.2	295.9	267.2	250.5
135°	373.2	378.7	400.9	423.1	400.9	378.7	373.2	337.2	289.1	265.1	250.2
137.5°	356.1	360.6	378.8	397.0	378.8	360.6	356.1	325.6	285.0	264.7	251.7
140°	342.4	346.7	363.6	380.7	363.6	346.7	342.4	316.1	281.1	263.5	252.0
142.5°	332.8	336.5	351.1	365.7	351.1	336.5	332.8	309.7	278.9	263.5	253.0
145°	318.4	321.2	332.3	343.3	332.3	321.2	318.4	299.5	274.3	261.7	253.0
147.5°	306.3	308.6	317.7	327.0	317.7	308.6	306.3	291.4	271.6	261.7	254.7
150°	299.3	301.2	308.7	316.1	308.7	301.2	299.3	286.8	270.0	261.7	255.6
152.5°	293.8	295.3	300.9	306.4	300.9	295.3	293.8	283.1	268.8	261.7	256.2
155°	287.3	288.2	291.9	295.6	291.9	288.2	287.3	278.7	267.4	261.7	257.5
157.5°	281.6	282.2	284.9	287.4	284.9	282.2	281.6	274.9	266.1	261.7	258.8
160°	278.7	279.1	280.6	282.1	280.6	279.1	278.7	273.1	265.5	261.7	259.4
162.5°	276.1	276.4	277.9	279.3	277.9	276.4	276.1	271.3	264.9	261.7	260.0
165°	272.0	272.3	273.9	275.4	273.9	272.3	272.0	268.5	264.0	261.7	261.0
167.5°	270.2	270.4	271.0	271.6	271.0	270.4	270.2	268.0	265.0	263.5	262.8
170°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	268.0	265.0	263.5	263.5
172.5°	268.8	268.6	268.1	267.6	268.1	268.6	268.8	267.0	264.6	263.5	263.5
175°	266.8	266.8	266.8	266.8	266.8	266.8	266.8	265.7	264.2	263.5	263.8
177.5°	266.5	266.3	265.7	265.1	265.7	266.3	266.5	265.6	264.4	263.8	264.1
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1877.1	1877.1	1877.1	1877.1	1877.1
2.5°	1854.1	1862.9	1868.3	1875.4	1893.1
5°	1783.0	1816.8	1827.4	1854.1	1886.0
7.5°	1626.7	1729.7	1758.2	1822.1	1871.8
10°	1475.8	1578.8	1628.5	1779.5	1854.1
12.5°	1399.4	1459.8	1493.5	1704.9	1829.2
15°	1351.4	1394.1	1418.9	1605.4	1800.8
17.5°	1314.2	1344.3	1362.1	1507.7	1761.7
20°	1291.1	1305.3	1321.3	1436.7	1717.3
22.5°	1275.1	1266.2	1278.6	1387.0	1656.9
25°	1264.4	1230.7	1244.9	1347.9	1585.9
27.5°	1273.3	1198.7	1204.0	1312.4	1511.3
30°	1275.1	1159.6	1161.4	1275.1	1427.8
32.5°	1262.6	1118.8	1120.6	1228.9	1333.7
35°	1232.5	1070.8	1069.1	1175.6	1205.8
37.5°	1191.6	1019.4	1019.4	1117.0	1065.5
40°	1141.9	967.9	973.2	1040.7	941.3
42.5°	1081.5	912.9	920.0	939.5	848.9
45°	1015.9	859.6	864.9	793.9	777.9
47.5°	943.1	804.5	806.3	658.9	754.8
50°	856.0	747.7	740.6	564.8	753.0
52.5°	779.7	685.5	664.2	511.5	683.8
55°	705.1	619.8	573.6	470.6	634.0
57.5°	639.4	534.6	490.2	422.7	623.4
60°	579.0	451.1	417.4	371.2	571.9
62.5°	529.2	388.9	381.8	335.7	518.6
65°	476.0	346.3	344.5	305.5	440.4
67.5°	424.5	317.9	316.1	277.1	335.7
70°	369.4	287.7	284.2	246.9	248.6
72.5°	312.6	254.0	250.4	222.0	206.0
75°	255.7	214.9	213.1	193.6	166.9
77.5°	200.7	170.5	174.0	156.3	122.5
80°	143.9	124.3	127.9	111.9	92.4
82.5°	95.9	81.7	85.2	71.0	62.2
85°	53.3	46.2	48.0	37.3	28.4
87.5°	24.9	21.3	21.3	14.2	8.9
90°	7.8	5.0	4.6	3.2	1.8
92.5°	48.3	34.4	31.3	19.2	7.1
95°	118.7	66.9	61.4	39.2	17.0
97.5°	159.9	73.4	68.6	49.1	29.6
100°	174.9	78.9	74.5	56.8	39.2
102.5°	181.9	84.4	80.4	63.8	47.3
105°	187.0	92.7	89.2	75.2	61.2
107.5°	187.9	104.8	101.5	88.4	75.4
110°	186.5	111.5	108.6	96.8	85.1



TEST NUMBER: P933976

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	186.6	119.7	116.9	105.7	94.5
115°	188.3	132.0	129.4	119.0	108.7
117.5°	191.8	143.9	141.5	132.1	122.7
120°	194.6	150.9	148.7	139.8	130.9
122.5°	198.7	159.0	156.8	147.9	138.9
125°	204.2	169.5	167.5	159.4	151.2
127.5°	209.7	179.6	177.6	169.3	161.2
130°	213.7	186.4	184.2	175.4	166.5
132.5°	217.0	191.9	189.7	180.9	172.0
135°	220.6	198.4	196.3	188.3	180.2
137.5°	225.9	206.5	204.5	196.5	188.5
140°	229.2	212.1	210.2	202.8	195.4
142.5°	231.9	216.1	214.5	207.6	200.9
145°	235.5	222.4	220.8	215.0	209.0
147.5°	240.6	230.2	228.7	223.0	217.2
150°	243.4	234.3	232.9	227.8	222.5
152.5°	245.2	236.9	235.9	231.9	228.0
155°	249.1	242.8	242.1	239.1	236.2
157.5°	253.0	248.6	247.9	245.1	242.2
160°	254.8	251.3	250.8	248.6	246.3
162.5°	256.6	254.1	253.7	252.1	250.4
165°	259.5	258.3	258.0	256.5	254.9
167.5°	261.6	260.6	260.5	259.7	259.0
170°	263.4	263.3	263.1	262.4	261.7
172.5°	263.5	263.5	263.5	263.3	263.1
175°	264.5	265.1	265.1	265.1	265.1
177.5°	264.6	265.1	265.1	265.1	265.1
180°	265.1	265.1	265.1	265.1	265.1



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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	14.29	15.42	15.01	16.16	17.04	17.13	18.26	17.85	19.00	19.88
	3H	14.79	15.80	15.52	16.55	17.47	18.50	19.51	19.23	20.26	21.18
	4H	14.99	15.95	15.75	16.71	17.64	18.96	19.91	19.71	20.67	21.60
	6H	15.13	16.01	15.89	16.78	17.72	19.26	20.14	20.02	20.91	21.85
	8H	15.13	15.97	15.91	16.76	17.71	19.34	20.18	20.12	20.97	21.91
	12H	15.11	15.91	15.90	16.70	17.67	19.39	20.19	20.17	20.97	21.94
4H	2H	15.36	16.31	16.12	17.07	18.00	17.57	18.53	18.33	19.29	20.21
	3H	16.41	17.21	17.18	18.00	18.95	19.10	19.90	19.87	20.70	21.64
	4H	16.70	17.42	17.48	18.22	19.19	19.64	20.37	20.43	21.16	22.14
	6H	16.84	17.46	17.64	18.28	19.26	20.03	20.65	20.83	21.47	22.45
	8H	16.85	17.43	17.66	18.25	19.24	20.14	20.73	20.95	21.54	22.53
	12H	16.83	17.36	17.66	18.19	19.19	20.21	20.74	21.04	21.58	22.57
8H	4H	17.17	17.76	17.98	18.58	19.57	19.79	20.37	20.60	21.19	22.18
	6H	17.45	17.93	18.28	18.79	19.78	20.24	20.72	21.07	21.58	22.58
	8H	17.49	17.92	18.34	18.78	19.79	20.39	20.83	21.24	21.68	22.69
	12H	17.49	17.87	18.34	18.71	19.78	20.51	20.89	21.36	21.73	22.80
12H	4H	17.19	17.72	18.02	18.56	19.55	19.77	20.29	20.59	21.13	22.13
	6H	17.51	17.94	18.36	18.80	19.81	20.24	20.67	21.08	21.53	22.53
	8H	17.59	17.97	18.44	18.81	19.88	20.41	20.79	21.26	21.64	22.71