

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: P933873

Luminaire Tested: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

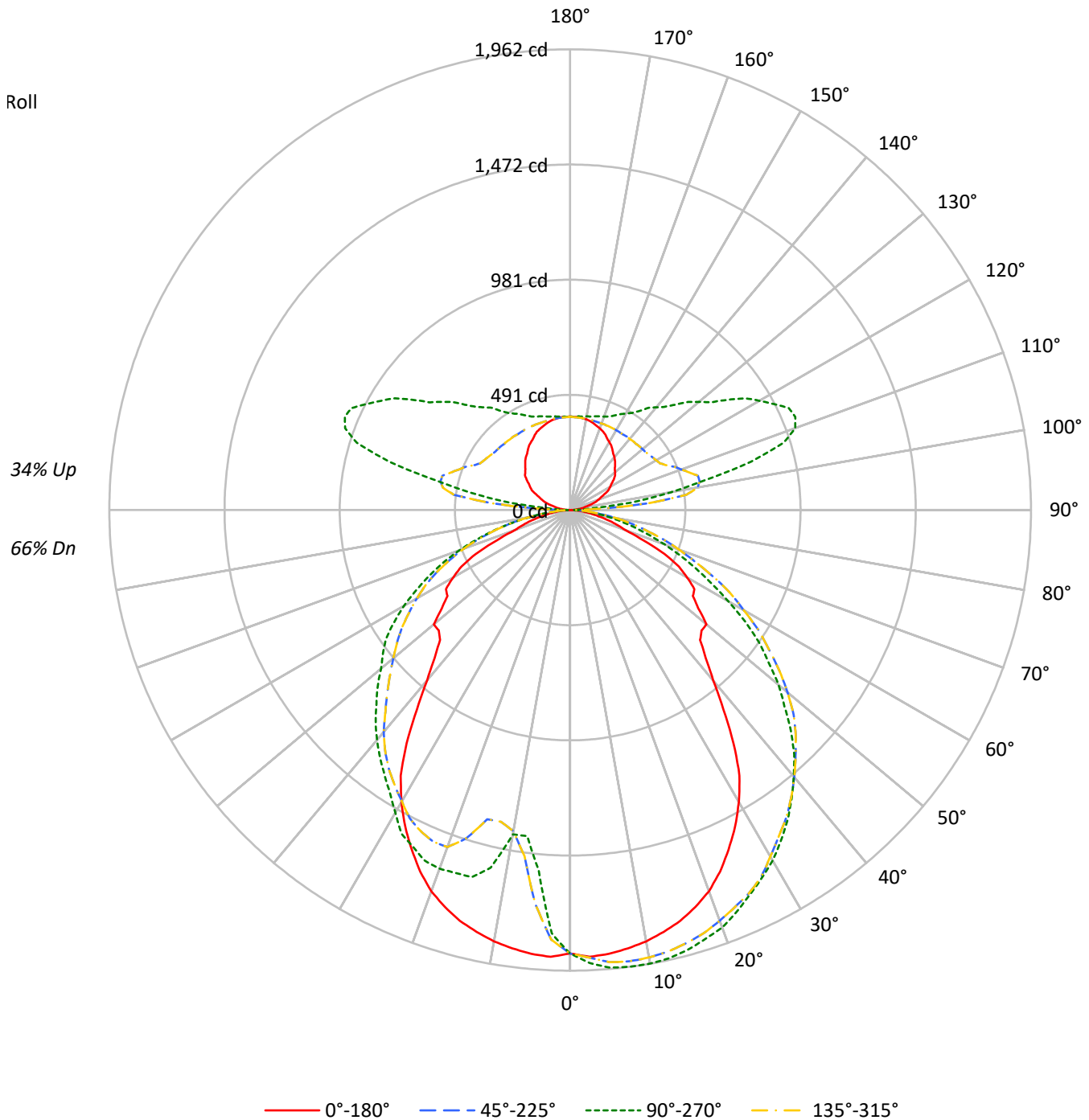
Test Method: LM-79-2019  
Report Number: P933873  
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7475.2 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55				55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46				46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39				39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34				34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29				29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26				26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23				23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20				20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18				18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16				16

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

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5887	5897	5887	4636
10°	5850	5808	5850	4152
15°	5788	5682	5788	4745
20°	5670	5534	5670	4755
25°	5424	5316	5424	4654
30°	5106	5135	5106	4433
35°	4554	4907	4554	4190
40°	3797	4638	3797	4006
45°	3395	4323	3395	3795
50°	3610	3948	3610	3583
55°	3399	3544	3399	3460
60°	3508	3010	3508	3169
65°	3186	2488	3186	2781
70°	2211	1983	2211	2332
75°	1946	1466	1946	1755
80°	1580	969	1580	1055
85°	927	514	927	436

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	2.3
10°-20°	484.0	6.5
20°-30°	748.2	10.0
30°-40°	893.2	11.9
40°-50°	898.4	12.0
50°-60°	781.7	10.5
60°-70°	554.3	7.4
70°-80°	293.2	3.9
80°-90°	74.5	1.0
90°-100°	193.8	2.6
100°-110°	509.5	6.8
110°-120°	528.3	7.1
120°-130°	423.7	5.7
130°-140°	332.5	4.4
140°-150°	255.2	3.4
150°-160°	183.8	2.5
160°-170°	112.5	1.5
170°-180°	38.0	0.5
0°-30°	1402.6	18.8
0°-40°	2295.8	30.7
0°-60°	3975.9	53.2
0°-90°	4898.0	65.5
90°-120°	1231.6	16.5
90°-150°	2243.0	30.0
90°-180°	2577.0	34.5
0°-180°	7475.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1888	1888	1888	1888	1888	
5°	1897	1956	1897	1538	1897	180
15°	1812	1938	1812	1619	1812	510
25°	1596	1808	1596	1583	1596	733
35°	1213	1613	1213	1378	1213	751
45°	782	1329	782	1167	782	627
55°	638	981	638	958	638	586
65°	443	591	443	661	443	423
75°	168	280	168	336	168	177
85°	29	72	29	61	29	39
90°	3	10	3	10	3	3
95°	26	117	26	117	26	28
105°	92	798	92	798	92	97
115°	163	1027	163	1027	163	161
125°	227	818	227	818	227	201
135°	270	635	270	635	270	209
145°	314	515	314	515	314	196
155°	354	444	354	444	354	163
165°	382	413	382	413	382	108
175°	398	400	398	400	398	38
180°	398	398	398	398	398	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4
2.5°	1904.5	1904.5	1915.2	1918.8	1918.8	1913.5	1908.1	1913.5	1929.5	1934.9	1933.1
5°	1897.4	1911.7	1931.3	1934.9	1938.5	1936.7	1933.1	1936.7	1954.6	1958.1	1959.9
7.5°	1883.1	1909.9	1934.9	1940.3	1945.6	1940.3	1938.5	1942.1	1959.9	1963.5	1963.5
10°	1865.2	1902.7	1931.3	1934.9	1940.3	1934.9	1934.9	1942.1	1959.9	1963.5	1965.3
12.5°	1840.2	1892.1	1918.8	1922.4	1929.5	1927.8	1926.0	1933.1	1951.0	1954.6	1954.6
15°	1811.6	1872.3	1897.4	1900.9	1913.5	1909.9	1909.9	1917.0	1936.7	1942.1	1940.3
17.5°	1772.4	1847.4	1876.0	1881.3	1890.3	1888.4	1890.3	1897.4	1915.2	1918.8	1920.7
20°	1727.7	1813.4	1847.4	1852.7	1861.7	1861.7	1861.7	1870.6	1888.4	1895.6	1895.6
22.5°	1667.0	1777.7	1813.4	1817.0	1827.7	1827.7	1831.3	1843.8	1859.8	1861.7	1861.7
25°	1595.5	1738.3	1768.7	1779.5	1790.2	1795.5	1801.0	1808.1	1813.4	1811.6	1813.4
27.5°	1520.4	1688.4	1727.7	1734.8	1749.1	1754.4	1761.6	1763.4	1765.2	1770.5	1766.9
30°	1436.4	1618.6	1677.6	1684.8	1708.0	1711.6	1704.4	1708.0	1716.9	1720.5	1724.1
32.5°	1341.8	1515.0	1625.8	1641.9	1663.3	1652.7	1650.8	1656.2	1670.5	1670.5	1674.1
35°	1213.1	1434.7	1577.6	1591.9	1608.0	1595.5	1602.6	1604.3	1613.3	1618.6	1616.9
37.5°	1072.0	1364.9	1527.5	1538.3	1550.8	1534.7	1545.4	1550.8	1557.9	1554.4	1554.4
40°	946.9	1256.0	1468.6	1475.8	1486.4	1474.0	1484.6	1488.3	1491.8	1488.3	1486.4
42.5°	854.0	1136.3	1406.1	1415.0	1407.8	1416.8	1420.4	1427.5	1422.1	1415.0	1415.0
45°	782.5	1104.1	1338.2	1348.9	1338.2	1352.5	1357.8	1357.8	1341.8	1338.2	1336.4
47.5°	759.3	1039.8	1270.3	1270.3	1265.0	1282.8	1291.7	1279.3	1263.2	1257.8	1257.8
50°	757.6	968.4	1177.4	1170.2	1195.2	1216.6	1207.8	1195.2	1182.7	1163.1	1163.1
52.5°	687.8	880.8	1057.7	1084.5	1123.8	1136.3	1122.0	1109.5	1088.1	1079.1	1072.0
55°	637.9	789.7	948.7	1002.3	1043.4	1059.5	1032.7	1020.1	988.0	982.7	979.1
57.5°	627.1	657.5	848.7	916.5	966.6	964.8	948.7	925.5	898.7	893.3	891.6
60°	575.3	475.3	741.5	821.8	873.6	868.3	854.0	832.6	807.5	804.0	800.4
62.5°	521.7	344.8	619.9	711.1	784.3	782.5	770.1	737.8	720.0	711.1	703.9
65°	443.1	289.4	441.3	591.4	696.8	700.4	673.5	650.4	630.7	619.9	618.1
67.5°	337.7	235.9	298.4	493.1	612.8	609.3	575.3	564.6	539.5	534.2	523.5
70°	250.1	157.3	207.3	400.2	530.7	521.7	494.9	482.4	459.2	446.7	439.5
72.5°	207.3	126.8	151.8	310.9	446.7	435.9	412.7	398.4	378.7	368.1	360.9
75°	167.9	134.0	116.2	230.4	362.7	355.6	334.1	319.8	303.7	289.4	291.2
77.5°	123.3	125.0	92.9	169.7	287.6	277.0	264.4	246.6	239.4	225.1	225.1
80°	92.9	98.3	69.7	116.2	207.3	207.3	196.5	184.0	171.5	164.4	164.4
82.5°	62.5	62.5	51.8	73.3	141.1	135.8	128.7	125.0	117.9	114.4	114.4
85°	28.6	35.7	32.1	44.7	76.8	80.4	80.4	76.8	75.0	71.5	73.3
87.5°	9.0	16.1	19.6	25.0	39.3	41.1	42.9	42.9	42.9	44.7	44.7
90°	2.7	4.8	6.9	7.5	11.7	17.4	20.2	18.0	13.5	10.1	10.1
92.5°	10.7	28.8	47.0	51.5	72.4	100.3	114.2	100.1	71.8	50.7	48.7
95°	25.6	58.8	92.0	100.3	178.1	281.9	333.8	297.8	226.0	172.1	166.0
97.5°	44.3	73.6	102.9	110.2	239.9	413.0	499.5	476.8	431.4	397.3	385.7
100°	58.7	85.2	111.8	118.5	262.5	454.5	550.5	552.2	555.4	557.9	544.1
102.5°	71.0	95.7	120.5	126.7	272.8	467.5	564.9	593.8	651.6	695.0	683.1
105°	91.8	112.8	133.7	139.0	280.4	469.0	563.3	628.1	757.8	855.1	848.8
107.5°	113.1	132.7	152.3	157.2	281.9	448.1	531.2	621.7	802.7	938.4	939.9
110°	127.5	145.2	162.9	167.3	279.7	429.6	504.6	605.7	808.0	959.8	966.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	141.7	158.5	175.4	179.6	279.8	413.5	480.3	583.9	790.9	946.2	956.4
115°	163.0	178.6	194.1	198.0	282.4	394.9	451.2	550.9	750.4	900.0	914.1
117.5°	184.1	198.2	212.3	215.9	287.6	383.3	431.2	521.3	701.3	836.2	851.9
120°	196.3	209.7	223.0	226.3	291.9	379.4	423.1	505.4	669.9	793.3	808.5
122.5°	208.4	221.8	235.1	238.5	298.0	377.3	417.0	491.1	639.2	750.3	765.3
125°	226.8	239.0	251.3	254.3	306.4	375.7	410.3	473.2	599.0	693.4	707.3
127.5°	241.7	254.1	266.4	269.5	314.6	374.7	404.8	458.7	566.8	647.8	659.5
130°	249.7	263.0	276.3	279.6	320.7	375.3	402.6	450.7	546.9	619.0	629.9
132.5°	258.1	271.3	284.6	287.9	325.5	375.7	400.8	443.8	530.0	594.5	604.2
135°	270.3	282.4	294.5	297.5	330.9	375.4	397.6	433.6	505.7	559.8	568.1
137.5°	282.8	294.8	306.7	309.7	338.9	377.7	397.0	427.5	488.4	534.1	541.0
140°	293.2	304.2	315.3	318.1	343.7	378.0	395.2	421.4	474.1	513.6	520.0
142.5°	301.2	311.4	321.6	324.2	347.8	379.4	395.2	418.2	464.5	499.2	504.7
145°	313.6	322.4	331.3	333.5	353.2	379.4	392.5	411.4	449.2	477.6	481.7
147.5°	325.8	334.4	343.1	345.3	361.0	382.0	392.5	407.4	437.2	459.5	462.9
150°	333.8	341.6	349.4	351.4	365.1	383.3	392.5	405.1	430.2	449.1	451.8
152.5°	342.1	348.0	353.9	355.4	367.7	384.2	392.5	403.2	424.7	440.8	442.9
155°	354.3	358.7	363.1	364.2	373.6	386.2	392.5	401.0	418.2	430.9	432.4
157.5°	363.4	367.6	372.0	373.0	379.5	388.1	392.5	399.2	412.4	422.3	423.3
160°	369.6	372.9	376.2	377.0	382.2	389.0	392.5	398.2	409.5	418.1	418.6
162.5°	375.7	378.2	380.7	381.3	385.0	390.0	392.5	397.3	406.9	414.1	414.6
165°	382.4	384.6	386.9	387.4	389.1	391.3	392.5	396.0	402.8	407.9	408.5
167.5°	388.5	389.6	390.6	390.9	392.3	394.2	395.2	397.4	401.9	405.3	405.5
170°	392.5	393.6	394.6	394.9	395.0	395.1	395.2	397.4	401.9	405.3	405.3
172.5°	394.6	394.9	395.1	395.2	395.2	395.2	395.2	396.9	400.5	403.2	403.0
175°	397.6	397.6	397.6	397.6	396.8	395.7	395.2	396.3	398.5	400.2	400.2
177.5°	397.6	397.6	397.6	397.6	396.9	396.1	395.7	396.6	398.4	399.7	399.4
180°	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4
2.5°	1936.7	1931.3	1936.7	1933.1	1934.9	1929.5	1913.5	1908.1	1913.5	1918.8	1918.8
5°	1959.9	1956.4	1959.9	1959.9	1958.1	1954.6	1936.7	1933.1	1936.7	1938.5	1934.9
7.5°	1967.1	1961.7	1967.1	1963.5	1963.5	1959.9	1942.1	1938.5	1940.3	1945.6	1940.3
10°	1967.1	1961.7	1967.1	1965.3	1963.5	1959.9	1942.1	1934.9	1934.9	1940.3	1934.9
12.5°	1958.1	1954.6	1958.1	1954.6	1954.6	1951.0	1933.1	1926.0	1927.8	1929.5	1922.4
15°	1943.8	1938.5	1943.8	1940.3	1942.1	1936.7	1917.0	1909.9	1909.9	1913.5	1900.9
17.5°	1922.4	1915.2	1922.4	1920.7	1918.8	1915.2	1897.4	1890.3	1888.4	1890.3	1881.3
20°	1897.4	1892.1	1897.4	1895.6	1895.6	1888.4	1870.6	1861.7	1861.7	1861.7	1852.7
22.5°	1858.1	1852.7	1858.1	1861.7	1861.7	1859.8	1843.8	1831.3	1827.7	1827.7	1817.0
25°	1813.4	1808.1	1813.4	1813.4	1811.6	1813.4	1808.1	1801.0	1795.5	1790.2	1779.5
27.5°	1770.5	1766.9	1770.5	1766.9	1770.5	1765.2	1763.4	1761.6	1754.4	1749.1	1734.8
30°	1727.7	1724.1	1727.7	1724.1	1720.5	1716.9	1708.0	1704.4	1711.6	1708.0	1684.8
32.5°	1674.1	1670.5	1674.1	1674.1	1670.5	1670.5	1656.2	1650.8	1652.7	1663.3	1641.9
35°	1618.6	1613.3	1618.6	1616.9	1618.6	1613.3	1604.3	1602.6	1595.5	1608.0	1591.9
37.5°	1554.4	1549.0	1554.4	1554.4	1554.4	1557.9	1550.8	1545.4	1534.7	1550.8	1538.3
40°	1488.3	1481.1	1488.3	1486.4	1488.3	1491.8	1488.3	1484.6	1474.0	1486.4	1475.8
42.5°	1413.3	1411.4	1413.3	1415.0	1415.0	1422.1	1427.5	1420.4	1416.8	1407.8	1415.0
45°	1332.8	1329.2	1332.8	1336.4	1338.2	1341.8	1357.8	1357.8	1352.5	1338.2	1348.9
47.5°	1247.0	1238.1	1247.0	1257.8	1257.8	1263.2	1279.3	1291.7	1282.8	1265.0	1270.3
50°	1155.9	1157.7	1155.9	1163.1	1163.1	1182.7	1195.2	1207.8	1216.6	1195.2	1170.2
52.5°	1066.6	1064.8	1066.6	1072.0	1079.1	1088.1	1109.5	1122.0	1136.3	1123.8	1084.5
55°	977.2	980.9	977.2	979.1	982.7	988.0	1020.1	1032.7	1059.5	1043.4	1002.3
57.5°	887.9	882.6	887.9	891.6	893.3	898.7	925.5	948.7	964.8	966.6	916.5
60°	784.3	777.2	784.3	800.4	804.0	807.5	832.6	854.0	868.3	873.6	821.8
62.5°	693.2	680.7	693.2	703.9	711.1	720.0	737.8	770.1	782.5	784.3	711.1
65°	596.7	591.4	596.7	618.1	619.9	630.7	650.4	673.5	700.4	696.8	591.4
67.5°	509.2	509.2	509.2	523.5	534.2	539.5	564.6	575.3	609.3	612.8	493.1
70°	428.8	427.0	428.8	439.5	446.7	459.2	482.4	494.9	521.7	530.7	400.2
72.5°	352.0	350.1	352.0	360.9	368.1	378.7	398.4	412.7	435.9	446.7	310.9
75°	284.1	280.5	284.1	291.2	289.4	303.7	319.8	334.1	355.6	362.7	230.4
77.5°	218.0	218.0	218.0	225.1	225.1	239.4	246.6	264.4	277.0	287.6	169.7
80°	162.6	160.8	162.6	164.4	164.4	171.5	184.0	196.5	207.3	207.3	116.2
82.5°	114.4	110.7	114.4	114.4	114.4	117.9	125.0	128.7	135.8	141.1	73.3
85°	71.5	71.5	71.5	73.3	71.5	75.0	76.8	80.4	80.4	76.8	44.7
87.5°	46.4	44.7	46.4	44.7	44.7	42.9	42.9	42.9	41.1	39.3	25.0
90°	10.1	10.1	10.1	10.1	10.1	13.5	18.0	20.2	17.4	11.7	7.5
92.5°	40.7	32.6	40.7	48.7	50.7	71.8	100.1	114.2	100.3	72.4	51.5
95°	141.5	117.1	141.5	166.0	172.1	226.0	297.8	333.8	281.9	178.1	100.3
97.5°	339.2	292.7	339.2	385.7	397.3	431.4	476.8	499.5	413.0	239.9	110.2
100°	488.8	433.3	488.8	544.1	557.9	555.4	552.2	550.5	454.5	262.5	118.5
102.5°	635.7	588.3	635.7	683.1	695.0	651.6	593.8	564.9	467.5	272.8	126.7
105°	823.3	797.8	823.3	848.8	855.1	757.8	628.1	563.3	469.0	280.4	139.0
107.5°	946.2	952.3	946.2	939.9	938.4	802.7	621.7	531.2	448.1	281.9	157.2
110°	993.0	1019.5	993.0	966.4	959.8	808.0	605.7	504.6	429.6	279.7	167.3





TEST NUMBER: P933873

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	997.1	1037.9	997.1	956.4	946.2	790.9	583.9	480.3	413.5	279.8	179.6
115°	970.7	1027.2	970.7	914.1	900.0	750.4	550.9	451.2	394.9	282.4	198.0
117.5°	914.6	977.3	914.6	851.9	836.2	701.3	521.3	431.2	383.3	287.6	215.9
120°	869.4	930.4	869.4	808.5	793.3	669.9	505.4	423.1	379.4	291.9	226.3
122.5°	825.5	885.6	825.5	765.3	750.3	639.2	491.1	417.0	377.3	298.0	238.5
125°	762.6	818.0	762.6	707.3	693.4	599.0	473.2	410.3	375.7	306.4	254.3
127.5°	706.2	752.9	706.2	659.5	647.8	566.8	458.7	404.8	374.7	314.6	269.5
130°	673.0	716.2	673.0	629.9	619.0	546.9	450.7	402.6	375.3	320.7	279.6
132.5°	642.8	681.5	642.8	604.2	594.5	530.0	443.8	400.8	375.7	325.5	287.9
135°	601.4	634.7	601.4	568.1	559.8	505.7	433.6	397.6	375.4	330.9	297.5
137.5°	568.2	595.6	568.2	541.0	534.1	488.4	427.5	397.0	377.7	338.9	309.7
140°	545.5	571.0	545.5	520.0	513.6	474.1	421.4	395.2	378.0	343.7	318.1
142.5°	526.7	548.6	526.7	504.7	499.2	464.5	418.2	395.2	379.4	347.8	324.2
145°	498.3	515.0	498.3	481.7	477.6	449.2	411.4	392.5	379.4	353.2	333.5
147.5°	476.7	490.4	476.7	462.9	459.5	437.2	407.4	392.5	382.0	361.0	345.3
150°	463.0	474.1	463.0	451.8	449.1	430.2	405.1	392.5	383.3	365.1	351.4
152.5°	451.3	459.7	451.3	442.9	440.8	424.7	403.2	392.5	384.2	367.7	355.4
155°	437.9	443.5	437.9	432.4	430.9	418.2	401.0	392.5	386.2	373.6	364.2
157.5°	427.3	431.2	427.3	423.3	422.3	412.4	399.2	392.5	388.1	379.5	373.0
160°	420.9	423.1	420.9	418.6	418.1	409.5	398.2	392.5	389.0	382.2	377.0
162.5°	416.7	418.9	416.7	414.6	414.1	406.9	397.3	392.5	390.0	385.0	381.3
165°	410.8	413.0	410.8	408.5	407.9	402.8	396.0	392.5	391.3	389.1	387.4
167.5°	406.4	407.4	406.4	405.5	405.3	401.9	397.4	395.2	394.2	392.3	390.9
170°	405.3	405.3	405.3	405.3	405.3	401.9	397.4	395.2	395.1	395.0	394.9
172.5°	402.1	401.3	402.1	403.0	403.2	400.5	396.9	395.2	395.2	395.2	395.2
175°	400.2	400.2	400.2	400.2	400.2	398.5	396.3	395.2	395.7	396.8	397.6
177.5°	398.5	397.6	398.5	399.4	399.7	398.4	396.6	395.7	396.1	396.9	397.6
180°	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6



TEST NUMBER: P933873

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4
2.5°	1915.2	1904.5	1904.5	1886.6	1879.5	1874.1	1865.2	1838.4	1831.3	1824.1	1834.9
5°	1931.3	1911.7	1897.4	1865.2	1838.4	1827.7	1793.8	1729.5	1686.6	1654.4	1636.6
7.5°	1934.9	1909.9	1883.1	1833.1	1768.7	1740.1	1636.6	1518.7	1486.4	1457.9	1440.0
10°	1931.3	1902.7	1865.2	1790.2	1638.4	1588.3	1484.6	1407.8	1388.2	1382.9	1388.2
12.5°	1918.8	1892.1	1840.2	1715.2	1502.6	1468.6	1407.8	1363.2	1359.6	1368.6	1416.8
15°	1897.4	1872.3	1811.6	1615.1	1427.5	1402.5	1359.6	1343.5	1363.2	1425.7	1570.4
17.5°	1876.0	1847.4	1772.4	1516.9	1370.4	1352.5	1322.1	1354.3	1465.0	1549.0	1597.2
20°	1847.4	1813.4	1727.7	1445.4	1329.2	1313.2	1298.9	1443.6	1527.5	1557.9	1584.7
22.5°	1813.4	1777.7	1667.0	1395.3	1286.4	1273.8	1282.8	1493.6	1527.5	1549.0	1572.2
25°	1768.7	1738.3	1595.5	1356.1	1252.4	1238.1	1272.1	1488.3	1507.9	1513.2	1559.7
27.5°	1727.7	1688.4	1520.4	1320.3	1211.3	1206.0	1281.0	1465.0	1479.3	1484.6	1534.7
30°	1677.6	1618.6	1436.4	1282.8	1168.4	1166.7	1282.8	1436.4	1432.9	1447.2	1497.2
32.5°	1625.8	1515.0	1341.8	1236.4	1127.3	1125.5	1270.3	1393.5	1390.0	1409.6	1447.2
35°	1577.6	1434.7	1213.1	1182.7	1075.5	1077.3	1239.9	1343.5	1345.3	1363.2	1386.4
37.5°	1527.5	1364.9	1072.0	1123.8	1025.6	1025.6	1198.8	1297.1	1293.5	1298.9	1331.0
40°	1468.6	1256.0	946.9	1047.0	979.1	973.7	1148.8	1247.0	1234.6	1232.8	1277.4
42.5°	1406.1	1136.3	854.0	945.1	925.5	918.3	1088.1	1186.3	1163.1	1168.4	1225.6
45°	1338.2	1104.1	782.5	798.6	870.1	864.7	1021.9	1116.7	1100.6	1114.9	1173.8
47.5°	1270.3	1039.8	759.3	662.8	811.1	809.3	948.7	1048.7	1039.8	1054.1	1116.7
50°	1177.4	968.4	757.6	568.1	745.0	752.1	861.2	982.7	982.7	995.2	1061.2
52.5°	1057.7	880.8	687.8	514.5	668.2	689.6	784.3	925.5	929.0	941.5	1000.5
55°	948.7	789.7	637.9	473.5	577.1	623.6	709.2	866.5	873.6	886.1	939.8
57.5°	848.7	657.5	627.1	425.2	493.1	537.8	643.2	809.3	812.9	823.6	875.5
60°	741.5	475.3	575.3	373.4	419.8	453.8	582.4	741.5	753.9	761.1	805.8
62.5°	619.9	344.8	521.7	337.7	384.1	391.3	532.4	677.1	693.2	698.6	725.4
65°	441.3	289.4	443.1	307.3	346.6	348.4	478.8	611.0	625.3	634.2	653.9
67.5°	298.4	235.9	337.7	278.7	318.0	319.8	427.0	534.2	553.8	561.0	573.5
70°	207.3	157.3	250.1	248.4	285.8	289.4	371.6	464.5	482.4	487.8	494.9
72.5°	151.8	126.8	207.3	223.3	251.9	255.5	314.4	385.9	403.8	409.1	412.7
75°	116.2	134.0	167.9	194.7	214.4	216.1	257.3	314.4	327.0	330.5	332.3
77.5°	92.9	125.0	123.3	157.3	175.1	171.5	201.9	243.0	253.7	253.7	253.7
80°	69.7	98.3	92.9	112.6	128.7	125.0	144.7	173.3	176.9	180.4	178.7
82.5°	51.8	62.5	62.5	71.5	85.8	82.2	96.4	112.6	112.6	112.6	116.2
85°	32.1	35.7	28.6	37.6	48.2	46.4	53.6	60.7	62.5	62.5	59.0
87.5°	19.6	16.1	9.0	14.3	21.4	21.4	25.0	26.8	25.0	25.0	25.0
90°	6.9	4.8	2.7	4.8	6.9	7.5	11.7	17.4	20.2	18.0	13.5
92.5°	47.0	28.8	10.7	28.8	47.0	51.5	72.4	100.3	114.2	100.1	71.8
95°	92.0	58.8	25.6	58.8	92.0	100.3	178.1	281.9	333.8	297.8	226.0
97.5°	102.9	73.6	44.3	73.6	102.9	110.2	239.9	413.0	499.5	476.8	431.4
100°	111.8	85.2	58.7	85.2	111.8	118.5	262.5	454.5	550.5	552.2	555.4
102.5°	120.5	95.7	71.0	95.7	120.5	126.7	272.8	467.5	564.9	593.8	651.6
105°	133.7	112.8	91.8	112.8	133.7	139.0	280.4	469.0	563.3	628.1	757.8
107.5°	152.3	132.7	113.1	132.7	152.3	157.2	281.9	448.1	531.2	621.7	802.7
110°	162.9	145.2	127.5	145.2	162.9	167.3	279.7	429.6	504.6	605.7	808.0



TEST NUMBER: P933873

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	175.4	158.5	141.7	158.5	175.4	179.6	279.8	413.5	480.3	583.9	790.9
115°	194.1	178.6	163.0	178.6	194.1	198.0	282.4	394.9	451.2	550.9	750.4
117.5°	212.3	198.2	184.1	198.2	212.3	215.9	287.6	383.3	431.2	521.3	701.3
120°	223.0	209.7	196.3	209.7	223.0	226.3	291.9	379.4	423.1	505.4	669.9
122.5°	235.1	221.8	208.4	221.8	235.1	238.5	298.0	377.3	417.0	491.1	639.2
125°	251.3	239.0	226.8	239.0	251.3	254.3	306.4	375.7	410.3	473.2	599.0
127.5°	266.4	254.1	241.7	254.1	266.4	269.5	314.6	374.7	404.8	458.7	566.8
130°	276.3	263.0	249.7	263.0	276.3	279.6	320.7	375.3	402.6	450.7	546.9
132.5°	284.6	271.3	258.1	271.3	284.6	287.9	325.5	375.7	400.8	443.8	530.0
135°	294.5	282.4	270.3	282.4	294.5	297.5	330.9	375.4	397.6	433.6	505.7
137.5°	306.7	294.8	282.8	294.8	306.7	309.7	338.9	377.7	397.0	427.5	488.4
140°	315.3	304.2	293.2	304.2	315.3	318.1	343.7	378.0	395.2	421.4	474.1
142.5°	321.6	311.4	301.2	311.4	321.6	324.2	347.8	379.4	395.2	418.2	464.5
145°	331.3	322.4	313.6	322.4	331.3	333.5	353.2	379.4	392.5	411.4	449.2
147.5°	343.1	334.4	325.8	334.4	343.1	345.3	361.0	382.0	392.5	407.4	437.2
150°	349.4	341.6	333.8	341.6	349.4	351.4	365.1	383.3	392.5	405.1	430.2
152.5°	353.9	348.0	342.1	348.0	353.9	355.4	367.7	384.2	392.5	403.2	424.7
155°	363.1	358.7	354.3	358.7	363.1	364.2	373.6	386.2	392.5	401.0	418.2
157.5°	372.0	367.6	363.4	367.6	372.0	373.0	379.5	388.1	392.5	399.2	412.4
160°	376.2	372.9	369.6	372.9	376.2	377.0	382.2	389.0	392.5	398.2	409.5
162.5°	380.7	378.2	375.7	378.2	380.7	381.3	385.0	390.0	392.5	397.3	406.9
165°	386.9	384.6	382.4	384.6	386.9	387.4	389.1	391.3	392.5	396.0	402.8
167.5°	390.6	389.6	388.5	389.6	390.6	390.9	392.3	394.2	395.2	397.4	401.9
170°	394.6	393.6	392.5	393.6	394.6	394.9	395.0	395.1	395.2	397.4	401.9
172.5°	395.1	394.9	394.6	394.9	395.1	395.2	395.2	395.2	395.2	396.9	400.5
175°	397.6	397.6	397.6	397.6	397.6	397.6	396.8	395.7	395.2	396.3	398.5
177.5°	397.6	397.6	397.6	397.6	397.6	397.6	396.9	396.1	395.7	396.6	398.4
180°	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6



TEST NUMBER: P933873

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4	1888.4
2.5°	1822.4	1817.0	1824.1	1804.5	1824.1	1817.0	1822.4	1834.9	1824.1	1831.3	1838.4
5°	1599.0	1590.1	1561.5	1538.3	1561.5	1590.1	1599.0	1636.6	1654.4	1686.6	1729.5
7.5°	1429.3	1422.1	1415.0	1400.7	1415.0	1422.1	1429.3	1440.0	1457.9	1486.4	1518.7
10°	1391.8	1393.5	1404.3	1402.5	1404.3	1393.5	1391.8	1388.2	1382.9	1388.2	1407.8
12.5°	1488.3	1504.4	1563.3	1559.7	1563.3	1504.4	1488.3	1416.8	1368.6	1359.6	1363.2
15°	1599.0	1604.3	1616.9	1618.6	1616.9	1604.3	1599.0	1570.4	1425.7	1363.2	1343.5
17.5°	1609.8	1611.5	1620.4	1620.4	1620.4	1611.5	1609.8	1597.2	1549.0	1465.0	1354.3
20°	1600.8	1604.3	1622.3	1625.8	1622.3	1604.3	1600.8	1584.7	1557.9	1527.5	1443.6
22.5°	1597.2	1604.3	1618.6	1616.9	1618.6	1604.3	1597.2	1572.2	1549.0	1527.5	1493.6
25°	1579.4	1579.4	1581.2	1582.9	1581.2	1579.4	1579.4	1559.7	1513.2	1507.9	1488.3
27.5°	1541.8	1545.4	1556.1	1554.4	1556.1	1545.4	1541.8	1534.7	1484.6	1479.3	1465.0
30°	1507.9	1504.4	1495.4	1488.3	1495.4	1504.4	1507.9	1497.2	1447.2	1432.9	1436.4
32.5°	1450.7	1441.8	1432.9	1427.5	1432.9	1441.8	1450.7	1447.2	1409.6	1390.0	1393.5
35°	1382.9	1384.7	1382.9	1377.5	1382.9	1384.7	1382.9	1386.4	1363.2	1345.3	1343.5
37.5°	1334.6	1338.2	1336.4	1329.2	1336.4	1338.2	1334.6	1331.0	1298.9	1293.5	1297.1
40°	1284.6	1286.4	1284.6	1279.3	1284.6	1286.4	1284.6	1277.4	1232.8	1234.6	1247.0
42.5°	1236.4	1234.6	1229.2	1225.6	1229.2	1234.6	1236.4	1225.6	1168.4	1163.1	1186.3
45°	1181.0	1182.7	1172.0	1166.7	1172.0	1182.7	1181.0	1173.8	1114.9	1100.6	1116.7
47.5°	1125.5	1125.5	1116.7	1111.2	1116.7	1125.5	1125.5	1116.7	1054.1	1039.8	1048.7
50°	1066.6	1064.8	1052.3	1050.5	1052.3	1064.8	1066.6	1061.2	995.2	982.7	982.7
52.5°	998.7	998.7	1000.5	1004.1	1000.5	998.7	998.7	1000.5	941.5	929.0	925.5
55°	939.8	941.5	954.1	957.6	954.1	941.5	939.8	939.8	886.1	873.6	866.5
57.5°	879.0	879.0	887.9	887.9	887.9	879.0	879.0	875.5	823.6	812.9	809.3
60°	809.3	812.9	820.1	818.3	820.1	812.9	809.3	805.8	761.1	753.9	741.5
62.5°	736.1	739.7	741.5	737.8	741.5	739.7	736.1	725.4	698.6	693.2	677.1
65°	659.3	662.8	664.6	661.0	664.6	662.8	659.3	653.9	634.2	625.3	611.0
67.5°	580.7	578.9	577.1	584.2	577.1	578.9	580.7	573.5	561.0	553.8	534.2
70°	500.2	500.2	498.4	502.1	498.4	500.2	500.2	494.9	487.8	482.4	464.5
72.5°	414.5	412.7	419.8	414.5	419.8	412.7	414.5	412.7	409.1	403.8	385.9
75°	330.5	334.1	330.5	335.8	330.5	334.1	330.5	332.3	330.5	327.0	314.4
77.5°	251.9	255.5	251.9	251.9	251.9	255.5	251.9	253.7	253.7	253.7	243.0
80°	178.7	176.9	176.9	175.1	176.9	176.9	178.7	178.7	180.4	176.9	173.3
82.5°	114.4	112.6	112.6	116.2	112.6	112.6	114.4	116.2	112.6	112.6	112.6
85°	62.5	64.3	60.7	60.7	60.7	64.3	62.5	59.0	62.5	62.5	60.7
87.5°	23.3	21.4	21.4	21.4	21.4	21.4	23.3	25.0	25.0	25.0	26.8
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.5	18.0	20.2	17.4
92.5°	50.7	48.7	40.7	32.6	40.7	48.7	50.7	71.8	100.1	114.2	100.3
95°	172.1	166.0	141.5	117.1	141.5	166.0	172.1	226.0	297.8	333.8	281.9
97.5°	397.3	385.7	339.2	292.7	339.2	385.7	397.3	431.4	476.8	499.5	413.0
100°	557.9	544.1	488.8	433.3	488.8	544.1	557.9	555.4	552.2	550.5	454.5
102.5°	695.0	683.1	635.7	588.3	635.7	683.1	695.0	651.6	593.8	564.9	467.5
105°	855.1	848.8	823.3	797.8	823.3	848.8	855.1	757.8	628.1	563.3	469.0
107.5°	938.4	939.9	946.2	952.3	946.2	939.9	938.4	802.7	621.7	531.2	448.1
110°	959.8	966.4	993.0	1019.5	993.0	966.4	959.8	808.0	605.7	504.6	429.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	946.2	956.4	997.1	1037.9	997.1	956.4	946.2	790.9	583.9	480.3	413.5
115°	900.0	914.1	970.7	1027.2	970.7	914.1	900.0	750.4	550.9	451.2	394.9
117.5°	836.2	851.9	914.6	977.3	914.6	851.9	836.2	701.3	521.3	431.2	383.3
120°	793.3	808.5	869.4	930.4	869.4	808.5	793.3	669.9	505.4	423.1	379.4
122.5°	750.3	765.3	825.5	885.6	825.5	765.3	750.3	639.2	491.1	417.0	377.3
125°	693.4	707.3	762.6	818.0	762.6	707.3	693.4	599.0	473.2	410.3	375.7
127.5°	647.8	659.5	706.2	752.9	706.2	659.5	647.8	566.8	458.7	404.8	374.7
130°	619.0	629.9	673.0	716.2	673.0	629.9	619.0	546.9	450.7	402.6	375.3
132.5°	594.5	604.2	642.8	681.5	642.8	604.2	594.5	530.0	443.8	400.8	375.7
135°	559.8	568.1	601.4	634.7	601.4	568.1	559.8	505.7	433.6	397.6	375.4
137.5°	534.1	541.0	568.2	595.6	568.2	541.0	534.1	488.4	427.5	397.0	377.7
140°	513.6	520.0	545.5	571.0	545.5	520.0	513.6	474.1	421.4	395.2	378.0
142.5°	499.2	504.7	526.7	548.6	526.7	504.7	499.2	464.5	418.2	395.2	379.4
145°	477.6	481.7	498.3	515.0	498.3	481.7	477.6	449.2	411.4	392.5	379.4
147.5°	459.5	462.9	476.7	490.4	476.7	462.9	459.5	437.2	407.4	392.5	382.0
150°	449.1	451.8	463.0	474.1	463.0	451.8	449.1	430.2	405.1	392.5	383.3
152.5°	440.8	442.9	451.3	459.7	451.3	442.9	440.8	424.7	403.2	392.5	384.2
155°	430.9	432.4	437.9	443.5	437.9	432.4	430.9	418.2	401.0	392.5	386.2
157.5°	422.3	423.3	427.3	431.2	427.3	423.3	422.3	412.4	399.2	392.5	388.1
160°	418.1	418.6	420.9	423.1	420.9	418.6	418.1	409.5	398.2	392.5	389.0
162.5°	414.1	414.6	416.7	418.9	416.7	414.6	414.1	406.9	397.3	392.5	390.0
165°	407.9	408.5	410.8	413.0	410.8	408.5	407.9	402.8	396.0	392.5	391.3
167.5°	405.3	405.5	406.4	407.4	406.4	405.5	405.3	401.9	397.4	395.2	394.2
170°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	401.9	397.4	395.2	395.1
172.5°	403.2	403.0	402.1	401.3	402.1	403.0	403.2	400.5	396.9	395.2	395.2
175°	400.2	400.2	400.2	400.2	400.2	400.2	400.2	398.5	396.3	395.2	395.7
177.5°	399.7	399.4	398.5	397.6	398.5	399.4	399.7	398.4	396.6	395.7	396.1
180°	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6	397.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1888.4	1888.4	1888.4	1888.4	1888.4
2.5°	1865.2	1874.1	1879.5	1886.6	1904.5
5°	1793.8	1827.7	1838.4	1865.2	1897.4
7.5°	1636.6	1740.1	1768.7	1833.1	1883.1
10°	1484.6	1588.3	1638.4	1790.2	1865.2
12.5°	1407.8	1468.6	1502.6	1715.2	1840.2
15°	1359.6	1402.5	1427.5	1615.1	1811.6
17.5°	1322.1	1352.5	1370.4	1516.9	1772.4
20°	1298.9	1313.2	1329.2	1445.4	1727.7
22.5°	1282.8	1273.8	1286.4	1395.3	1667.0
25°	1272.1	1238.1	1252.4	1356.1	1595.5
27.5°	1281.0	1206.0	1211.3	1320.3	1520.4
30°	1282.8	1166.7	1168.4	1282.8	1436.4
32.5°	1270.3	1125.5	1127.3	1236.4	1341.8
35°	1239.9	1077.3	1075.5	1182.7	1213.1
37.5°	1198.8	1025.6	1025.6	1123.8	1072.0
40°	1148.8	973.7	979.1	1047.0	946.9
42.5°	1088.1	918.3	925.5	945.1	854.0
45°	1021.9	864.7	870.1	798.6	782.5
47.5°	948.7	809.3	811.1	662.8	759.3
50°	861.2	752.1	745.0	568.1	757.6
52.5°	784.3	689.6	668.2	514.5	687.8
55°	709.2	623.6	577.1	473.5	637.9
57.5°	643.2	537.8	493.1	425.2	627.1
60°	582.4	453.8	419.8	373.4	575.3
62.5°	532.4	391.3	384.1	337.7	521.7
65°	478.8	348.4	346.6	307.3	443.1
67.5°	427.0	319.8	318.0	278.7	337.7
70°	371.6	289.4	285.8	248.4	250.1
72.5°	314.4	255.5	251.9	223.3	207.3
75°	257.3	216.1	214.4	194.7	167.9
77.5°	201.9	171.5	175.1	157.3	123.3
80°	144.7	125.0	128.7	112.6	92.9
82.5°	96.4	82.2	85.8	71.5	62.5
85°	53.6	46.4	48.2	37.6	28.6
87.5°	25.0	21.4	21.4	14.3	9.0
90°	11.7	7.5	6.9	4.8	2.7
92.5°	72.4	51.5	47.0	28.8	10.7
95°	178.1	100.3	92.0	58.8	25.6
97.5°	239.9	110.2	102.9	73.6	44.3
100°	262.5	118.5	111.8	85.2	58.7
102.5°	272.8	126.7	120.5	95.7	71.0
105°	280.4	139.0	133.7	112.8	91.8
107.5°	281.9	157.2	152.3	132.7	113.1
110°	279.7	167.3	162.9	145.2	127.5



TEST NUMBER: P933873

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	279.8	179.6	175.4	158.5	141.7
115°	282.4	198.0	194.1	178.6	163.0
117.5°	287.6	215.9	212.3	198.2	184.1
120°	291.9	226.3	223.0	209.7	196.3
122.5°	298.0	238.5	235.1	221.8	208.4
125°	306.4	254.3	251.3	239.0	226.8
127.5°	314.6	269.5	266.4	254.1	241.7
130°	320.7	279.6	276.3	263.0	249.7
132.5°	325.5	287.9	284.6	271.3	258.1
135°	330.9	297.5	294.5	282.4	270.3
137.5°	338.9	309.7	306.7	294.8	282.8
140°	343.7	318.1	315.3	304.2	293.2
142.5°	347.8	324.2	321.6	311.4	301.2
145°	353.2	333.5	331.3	322.4	313.6
147.5°	361.0	345.3	343.1	334.4	325.8
150°	365.1	351.4	349.4	341.6	333.8
152.5°	367.7	355.4	353.9	348.0	342.1
155°	373.6	364.2	363.1	358.7	354.3
157.5°	379.5	373.0	372.0	367.6	363.4
160°	382.2	377.0	376.2	372.9	369.6
162.5°	385.0	381.3	380.7	378.2	375.7
165°	389.1	387.4	386.9	384.6	382.4
167.5°	392.3	390.9	390.6	389.6	388.5
170°	395.0	394.9	394.6	393.6	392.5
172.5°	395.2	395.2	395.1	394.9	394.6
175°	396.8	397.6	397.6	397.6	397.6
177.5°	396.9	397.6	397.6	397.6	397.6
180°	397.6	397.6	397.6	397.6	397.6



TEST NUMBER: P933873  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.27	13.29	13.08	14.12	15.15	15.12	16.14	15.93	16.97	18.00
	3H	12.75	13.67	13.58	14.51	15.57	16.48	17.40	17.31	18.24	19.30
	4H	12.95	13.82	13.79	14.67	15.74	16.94	17.80	17.78	18.65	19.72
	6H	13.08	13.88	13.93	14.74	15.82	17.24	18.03	18.09	18.89	19.98
	8H	13.09	13.85	13.95	14.72	15.81	17.32	18.08	18.18	18.95	20.04
	12H	13.06	13.79	13.93	14.66	15.77	17.37	18.09	18.23	18.96	20.07
4H	2H	13.32	14.19	14.17	15.04	16.11	15.54	16.41	16.39	17.26	18.33
	3H	14.36	15.09	15.22	15.97	17.05	17.07	17.79	17.93	18.68	19.76
	4H	14.65	15.30	15.52	16.18	17.30	17.61	18.27	18.48	19.15	20.26
	6H	14.78	15.35	15.67	16.25	17.37	17.99	18.56	18.88	19.46	20.58
	8H	14.79	15.32	15.68	16.22	17.35	18.10	18.63	18.99	19.53	20.66
	12H	14.77	15.24	15.67	16.16	17.30	18.17	18.65	19.08	19.57	20.70
8H	4H	15.12	15.65	16.01	16.55	17.67	17.75	18.28	18.64	19.18	20.31
	6H	15.39	15.82	16.30	16.76	17.89	18.20	18.63	19.11	19.58	20.70
	8H	15.43	15.82	16.36	16.75	17.90	18.35	18.74	19.28	19.68	20.82
	12H	15.42	15.76	16.35	16.69	17.89	18.46	18.80	19.39	19.73	20.93
12H	4H	15.13	15.61	16.04	16.53	17.66	17.72	18.20	18.63	19.12	20.25
	6H	15.45	15.84	16.37	16.77	17.92	18.19	18.58	19.12	19.52	20.66
	8H	15.52	15.86	16.45	16.79	17.99	18.37	18.71	19.30	19.63	20.83