

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: P934312

Luminaire Tested: SQ4-FA-050U-075D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

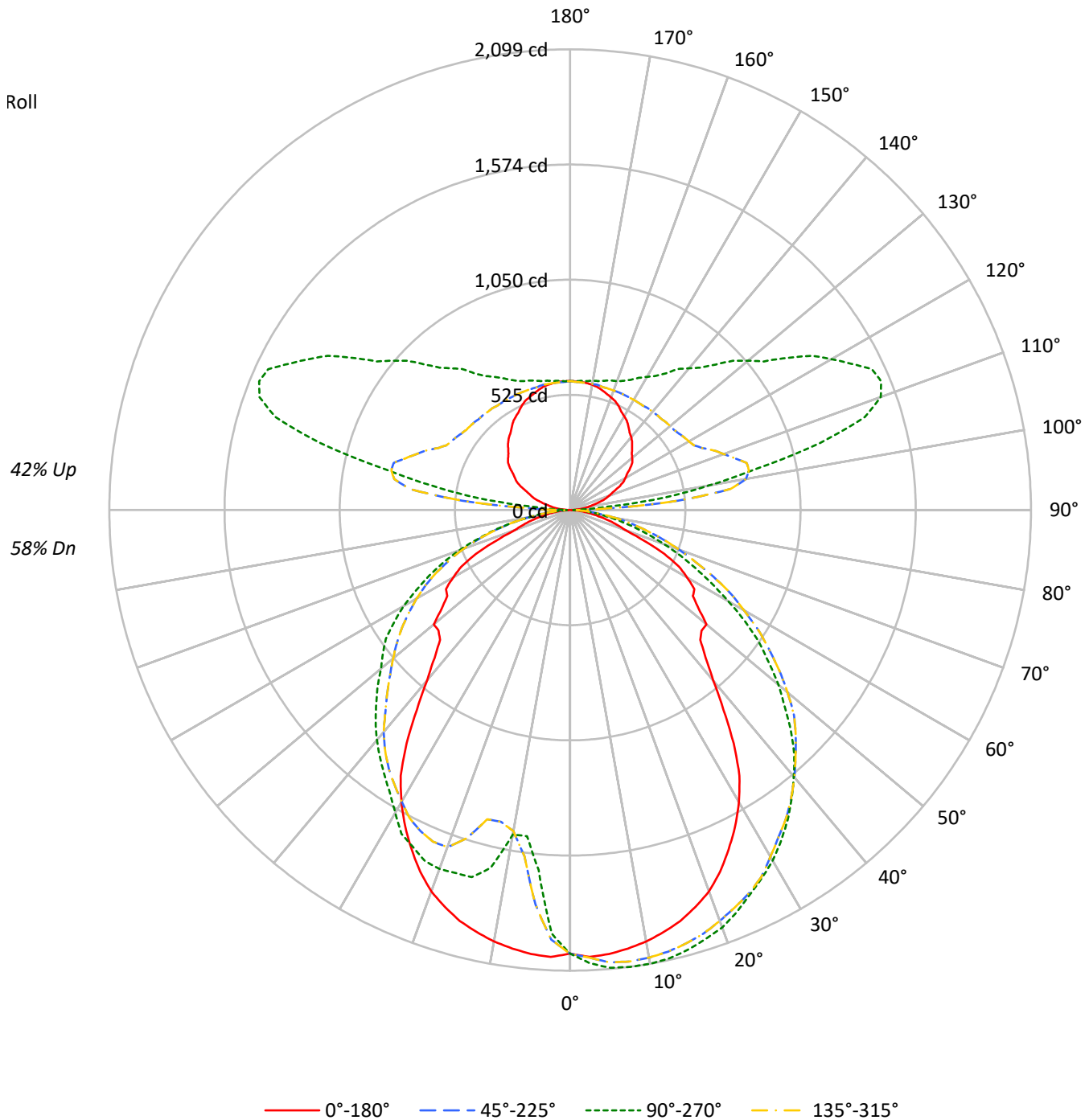
Test Method: LM-79-2019  
Report Number: P934312  
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9048.6 lumens  
Efficiency: N/A  
Efficacy: 124.3 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: General Diffuse  
  
Input Watts (W): 72.8  
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				
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

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

	0°	90°	180°	270°
0°	9376	9376	9376	9376
5°	9446	9465	9446	7442
10°	9383	9323	9383	6665
15°	9281	9121	9281	7617
20°	9087	8882	9087	7632
25°	8689	8533	8689	7470
30°	8176	8243	8176	7116
35°	7289	7876	7289	6725
40°	6074	7445	6074	6430
45°	5427	6940	5427	6091
50°	5766	6338	5766	5752
55°	5425	5689	5425	5554
60°	5592	4832	5592	5087
65°	5070	3994	5070	4465
70°	3511	3183	3511	3743
75°	3078	2353	3078	2818
80°	2480	1556	2480	1694
85°	1425	824	1425	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8317 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.4	2.0
10°-20°	517.9	5.7
20°-30°	800.6	8.8
30°-40°	955.8	10.6
40°-50°	961.4	10.6
50°-60°	836.6	9.2
60°-70°	593.2	6.6
70°-80°	313.8	3.5
80°-90°	80.4	0.9
90°-100°	286.2	3.2
100°-110°	752.5	8.3
110°-120°	780.3	8.6
120°-130°	625.9	6.9
130°-140°	491.1	5.4
140°-150°	376.9	4.2
150°-160°	271.4	3.0
160°-170°	166.1	1.8
170°-180°	56.1	0.6
0°-30°	1501.0	16.6
0°-40°	2456.8	27.2
0°-60°	4254.7	47.0
0°-90°	5242.1	57.9
90°-120°	1819.0	20.1
90°-150°	3312.8	36.6
90°-180°	3806.0	42.1
0°-180°	9048.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2021	2021	2021	2021	2021	
5°	2030	2094	2030	1646	2030	193
15°	1939	2074	1939	1732	1939	545
25°	1707	1935	1707	1694	1707	784
35°	1298	1726	1298	1474	1298	803
45°	838	1422	838	1248	838	671
55°	683	1050	683	1025	683	627
65°	474	633	474	707	474	453
75°	180	300	180	360	180	189
85°	31	76	31	65	31	41
90°	4	15	4	15	4	5
95°	38	173	38	173	38	42
105°	136	1178	136	1178	136	144
115°	241	1517	241	1517	241	238
125°	335	1208	335	1208	335	297
135°	399	938	399	938	399	309
145°	463	761	463	761	463	290
155°	523	655	523	655	523	240
165°	565	610	565	610	565	159
175°	587	591	587	591	587	56
180°	587	587	587	587	587	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	2038.1	2038.1	2049.6	2053.4	2053.4	2047.7	2041.9	2047.7	2064.9	2070.6	2068.7
5°	2030.4	2045.7	2066.8	2070.6	2074.4	2072.5	2068.7	2072.5	2091.6	2095.5	2097.4
7.5°	2015.2	2043.8	2070.6	2076.3	2082.1	2076.3	2074.4	2078.2	2097.4	2101.2	2101.2
10°	1996.0	2036.2	2066.8	2070.6	2076.3	2070.6	2070.6	2078.2	2097.4	2101.2	2103.1
12.5°	1969.3	2024.7	2053.4	2057.2	2064.9	2063.0	2061.0	2068.7	2087.8	2091.6	2091.6
15°	1938.7	2003.7	2030.4	2034.3	2047.7	2043.8	2043.8	2051.5	2072.5	2078.2	2076.3
17.5°	1896.6	1976.9	2007.5	2013.2	2022.8	2020.9	2022.8	2030.4	2049.6	2053.4	2055.3
20°	1848.8	1940.6	1976.9	1982.6	1992.2	1992.2	1992.2	2001.8	2020.9	2028.5	2028.5
22.5°	1783.8	1902.3	1940.6	1944.4	1955.9	1955.9	1959.7	1973.1	1990.3	1992.2	1992.2
25°	1707.3	1860.3	1892.8	1904.3	1915.7	1921.5	1927.2	1934.8	1940.6	1938.7	1940.6
27.5°	1627.0	1806.7	1848.8	1856.5	1871.8	1877.5	1885.1	1887.0	1889.0	1894.7	1890.9
30°	1537.2	1732.2	1795.3	1802.9	1827.8	1831.6	1824.0	1827.8	1837.3	1841.2	1845.0
32.5°	1435.8	1621.3	1739.8	1757.0	1780.0	1768.5	1766.6	1772.3	1787.6	1787.6	1791.4
35°	1298.2	1535.2	1688.2	1703.5	1720.7	1707.3	1715.0	1716.9	1726.4	1732.2	1730.3
37.5°	1147.1	1460.7	1634.7	1646.1	1659.5	1642.3	1653.8	1659.5	1667.2	1663.3	1663.3
40°	1013.4	1344.0	1571.6	1579.2	1590.7	1577.3	1588.8	1592.6	1596.4	1592.6	1590.7
42.5°	913.9	1215.9	1504.6	1514.2	1506.6	1516.1	1519.9	1527.6	1521.9	1514.2	1514.2
45°	837.5	1181.5	1432.0	1443.5	1432.0	1447.3	1453.0	1453.0	1435.8	1432.0	1430.1
47.5°	812.6	1112.8	1359.3	1359.3	1353.6	1372.7	1382.3	1368.9	1351.7	1346.0	1346.0
50°	810.7	1036.3	1259.9	1252.3	1279.0	1302.0	1292.4	1279.0	1265.6	1244.6	1244.6
52.5°	736.1	942.6	1131.9	1160.5	1202.6	1215.9	1200.6	1187.3	1164.3	1154.8	1147.1
55°	682.6	845.1	1015.3	1072.6	1116.6	1133.8	1105.1	1091.8	1057.3	1051.6	1047.8
57.5°	671.1	703.6	908.2	980.9	1034.4	1032.5	1015.3	990.4	961.7	956.0	954.1
60°	615.7	508.6	793.5	879.5	935.0	929.2	913.9	891.0	864.2	860.4	856.6
62.5°	558.3	369.0	663.5	761.0	839.4	837.5	824.1	789.7	770.5	761.0	753.3
65°	474.2	309.7	472.3	632.9	745.7	749.5	720.8	696.0	674.9	663.5	661.6
67.5°	361.4	252.4	319.3	527.7	655.8	652.0	615.7	604.2	577.4	571.7	560.2
70°	267.7	168.3	221.8	428.3	567.9	558.3	529.6	516.2	491.4	478.0	470.4
72.5°	221.8	135.8	162.5	332.7	478.0	466.5	441.7	426.4	405.3	393.9	386.2
75°	179.7	143.4	124.3	246.6	388.1	380.5	357.5	342.2	325.0	309.7	311.7
77.5°	131.9	133.8	99.4	181.6	307.8	296.4	283.0	263.9	256.2	240.9	240.9
80°	99.4	105.2	74.6	124.3	221.8	221.8	210.3	196.9	183.6	175.9	175.9
82.5°	66.9	66.9	55.4	78.4	151.0	145.3	137.7	133.8	126.2	122.4	122.4
85°	30.6	38.2	34.4	47.8	82.2	86.0	86.0	82.2	80.3	76.5	78.4
87.5°	9.6	17.2	21.0	26.8	42.1	44.0	45.9	45.9	45.9	47.8	47.8
90°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0	15.0	15.0
92.5°	15.8	42.5	69.4	76.1	107.0	148.1	168.6	147.8	106.1	74.9	71.9
95°	37.9	86.9	135.9	148.2	263.1	416.3	493.0	440.0	333.8	254.2	245.2
97.5°	65.4	108.6	151.9	162.7	354.4	609.9	737.7	704.2	637.1	586.8	569.6
100°	86.7	125.9	165.1	174.9	387.7	671.2	813.0	815.5	820.3	824.0	803.5
102.5°	104.9	141.5	178.0	187.2	402.9	690.5	834.3	877.0	962.5	1026.6	1009.1
105°	135.6	166.5	197.6	205.3	414.2	692.7	831.9	927.7	1119.4	1263.1	1253.6
107.5°	167.1	196.0	224.9	232.1	416.2	661.8	784.6	918.2	1185.5	1386.0	1388.3
110°	188.3	214.4	240.6	247.1	413.2	634.5	745.2	894.6	1193.4	1417.5	1427.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.3	234.1	259.0	265.2	413.3	610.7	709.4	862.2	1168.0	1397.4	1412.5
115°	240.8	263.8	286.7	292.4	417.1	583.4	666.4	813.7	1108.3	1329.2	1350.1
117.5°	271.9	292.7	313.6	318.8	424.8	566.1	636.8	769.8	1035.6	1235.1	1258.2
120°	290.1	309.6	329.3	334.2	431.2	560.4	625.0	746.4	989.4	1171.6	1194.0
122.5°	307.7	327.5	347.3	352.3	440.1	557.3	616.0	725.3	944.1	1108.2	1130.4
125°	335.0	353.0	371.0	375.5	452.4	554.9	606.1	699.0	884.9	1024.3	1044.7
127.5°	357.1	375.2	393.4	398.0	464.6	553.4	597.8	677.6	837.2	956.9	974.1
130°	368.8	388.4	408.1	413.0	473.5	554.3	594.6	665.7	807.7	914.2	930.2
132.5°	381.1	400.7	420.4	425.2	480.8	554.9	592.0	655.5	782.7	878.0	892.2
135°	399.2	417.1	434.9	439.4	488.6	554.3	587.2	640.4	746.9	826.7	839.1
137.5°	417.8	435.5	453.1	457.5	500.5	557.7	586.4	631.4	721.5	789.0	799.0
140°	433.1	449.4	465.7	469.8	507.7	558.3	583.6	622.5	700.3	758.6	768.0
142.5°	444.9	459.9	475.0	478.8	513.8	560.3	583.6	617.8	686.1	737.4	745.5
145°	463.1	476.2	489.4	492.6	521.7	560.4	579.7	607.6	663.6	705.4	711.6
147.5°	481.2	494.0	506.8	509.9	533.2	564.2	579.7	601.7	645.6	678.6	683.6
150°	493.0	504.6	516.1	519.0	539.3	566.2	579.7	598.3	635.5	663.3	667.4
152.5°	505.2	514.0	522.7	524.9	543.2	567.6	579.7	595.6	627.2	651.0	654.2
155°	523.3	529.8	536.3	537.9	551.9	570.4	579.7	592.3	617.5	636.4	638.5
157.5°	536.7	543.0	549.3	550.9	560.5	573.3	579.7	589.5	609.1	623.8	625.2
160°	545.8	550.8	555.6	556.9	564.5	574.7	579.7	588.1	604.9	617.5	618.3
162.5°	554.9	558.6	562.2	563.2	568.7	576.1	579.7	586.8	601.0	611.6	612.4
165°	564.7	568.1	571.3	572.2	574.7	578.0	579.7	584.8	594.9	602.6	603.4
167.5°	573.8	575.3	576.9	577.3	579.4	582.2	583.6	587.0	593.7	598.6	599.0
170°	579.7	581.2	582.9	583.3	583.4	583.5	583.6	587.0	593.7	598.6	598.6
172.5°	582.9	583.3	583.5	583.6	583.6	583.6	583.6	586.3	591.6	595.5	595.2
175°	587.2	587.2	587.2	587.2	586.0	584.4	583.6	585.3	588.6	591.1	591.1
177.5°	587.2	587.2	587.2	587.2	586.2	585.0	584.4	585.7	588.3	590.3	589.9
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	2072.5	2066.8	2072.5	2068.7	2070.6	2064.9	2047.7	2041.9	2047.7	2053.4	2053.4
5°	2097.4	2093.5	2097.4	2097.4	2095.5	2091.6	2072.5	2068.7	2072.5	2074.4	2070.6
7.5°	2105.0	2099.3	2105.0	2101.2	2101.2	2097.4	2078.2	2074.4	2076.3	2082.1	2076.3
10°	2105.0	2099.3	2105.0	2103.1	2101.2	2097.4	2078.2	2070.6	2070.6	2076.3	2070.6
12.5°	2095.5	2091.6	2095.5	2091.6	2091.6	2087.8	2068.7	2061.0	2063.0	2064.9	2057.2
15°	2080.2	2074.4	2080.2	2076.3	2078.2	2072.5	2051.5	2043.8	2043.8	2047.7	2034.3
17.5°	2057.2	2049.6	2057.2	2055.3	2053.4	2049.6	2030.4	2022.8	2020.9	2022.8	2013.2
20°	2030.4	2024.7	2030.4	2028.5	2028.5	2020.9	2001.8	1992.2	1992.2	1992.2	1982.6
22.5°	1988.4	1982.6	1988.4	1992.2	1992.2	1990.3	1973.1	1959.7	1955.9	1955.9	1944.4
25°	1940.6	1934.8	1940.6	1940.6	1938.7	1940.6	1934.8	1927.2	1921.5	1915.7	1904.3
27.5°	1894.7	1890.9	1894.7	1890.9	1894.7	1889.0	1887.0	1885.1	1877.5	1871.8	1856.5
30°	1848.8	1845.0	1848.8	1845.0	1841.2	1837.3	1827.8	1824.0	1831.6	1827.8	1802.9
32.5°	1791.4	1787.6	1791.4	1791.4	1787.6	1787.6	1772.3	1766.6	1768.5	1780.0	1757.0
35°	1732.2	1726.4	1732.2	1730.3	1732.2	1726.4	1716.9	1715.0	1707.3	1720.7	1703.5
37.5°	1663.3	1657.6	1663.3	1663.3	1663.3	1667.2	1659.5	1653.8	1642.3	1659.5	1646.1
40°	1592.6	1585.0	1592.6	1590.7	1592.6	1596.4	1592.6	1588.8	1577.3	1590.7	1579.2
42.5°	1512.3	1510.4	1512.3	1514.2	1514.2	1521.9	1527.6	1519.9	1516.1	1506.6	1514.2
45°	1426.3	1422.4	1426.3	1430.1	1432.0	1435.8	1453.0	1453.0	1447.3	1432.0	1443.5
47.5°	1334.5	1324.9	1334.5	1346.0	1346.0	1351.7	1368.9	1382.3	1372.7	1353.6	1359.3
50°	1237.0	1238.9	1237.0	1244.6	1244.6	1265.6	1279.0	1292.4	1302.0	1279.0	1252.3
52.5°	1141.4	1139.6	1141.4	1147.1	1154.8	1164.3	1187.3	1200.6	1215.9	1202.6	1160.5
55°	1045.9	1049.7	1045.9	1047.8	1051.6	1057.3	1091.8	1105.1	1133.8	1116.6	1072.6
57.5°	950.3	944.5	950.3	954.1	956.0	961.7	990.4	1015.3	1032.5	1034.4	980.9
60°	839.4	831.7	839.4	856.6	860.4	864.2	891.0	913.9	929.2	935.0	879.5
62.5°	741.9	728.5	741.9	753.3	761.0	770.5	789.7	824.1	837.5	839.4	761.0
65°	638.6	632.9	638.6	661.6	663.5	674.9	696.0	720.8	749.5	745.7	632.9
67.5°	544.9	544.9	544.9	560.2	571.7	577.4	604.2	615.7	652.0	655.8	527.7
70°	458.9	457.0	458.9	470.4	478.0	491.4	516.2	529.6	558.3	567.9	428.3
72.5°	376.7	374.8	376.7	386.2	393.9	405.3	426.4	441.7	466.5	478.0	332.7
75°	304.0	300.2	304.0	311.7	309.7	325.0	342.2	357.5	380.5	388.1	246.6
77.5°	233.3	233.3	233.3	240.9	240.9	256.2	263.9	283.0	296.4	307.8	181.6
80°	174.0	172.1	174.0	175.9	175.9	183.6	196.9	210.3	221.8	221.8	124.3
82.5°	122.4	118.5	122.4	122.4	122.4	126.2	133.8	137.7	145.3	151.0	78.4
85°	76.5	76.5	76.5	78.4	76.5	80.3	82.2	86.0	86.0	82.2	47.8
87.5°	49.7	47.8	49.7	47.8	47.8	45.9	45.9	45.9	44.0	42.1	26.8
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7	17.3	11.0
92.5°	59.9	48.1	59.9	71.9	74.9	106.1	147.8	168.6	148.1	107.0	76.1
95°	209.1	173.0	209.1	245.2	254.2	333.8	440.0	493.0	416.3	263.1	148.2
97.5°	500.9	432.3	500.9	569.6	586.8	637.1	704.2	737.7	609.9	354.4	162.7
100°	721.8	639.9	721.8	803.5	824.0	820.3	815.5	813.0	671.2	387.7	174.9
102.5°	939.0	868.9	939.0	1009.1	1026.6	962.5	877.0	834.3	690.5	402.9	187.2
105°	1215.9	1178.3	1215.9	1253.6	1263.1	1119.4	927.7	831.9	692.7	414.2	205.3
107.5°	1397.4	1406.5	1397.4	1388.3	1386.0	1185.5	918.2	784.6	661.8	416.2	232.1
110°	1466.5	1505.8	1466.5	1427.3	1417.5	1193.4	894.6	745.2	634.5	413.2	247.1





TEST NUMBER: P934312

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1472.7	1532.9	1472.7	1412.5	1397.4	1168.0	862.2	709.4	610.7	413.3	265.2
115°	1433.6	1517.2	1433.6	1350.1	1329.2	1108.3	813.7	666.4	583.4	417.1	292.4
117.5°	1350.9	1443.6	1350.9	1258.2	1235.1	1035.6	769.8	636.8	566.1	424.8	318.8
120°	1284.1	1374.2	1284.1	1194.0	1171.6	989.4	746.4	625.0	560.4	431.2	334.2
122.5°	1219.2	1308.0	1219.2	1130.4	1108.2	944.1	725.3	616.0	557.3	440.1	352.3
125°	1126.5	1208.3	1126.5	1044.7	1024.3	884.9	699.0	606.1	554.9	452.4	375.5
127.5°	1043.1	1112.1	1043.1	974.1	956.9	837.2	677.6	597.8	553.4	464.6	398.0
130°	994.0	1057.7	994.0	930.2	914.2	807.7	665.7	594.6	554.3	473.5	413.0
132.5°	949.4	1006.5	949.4	892.2	878.0	782.7	655.5	592.0	554.9	480.8	425.2
135°	888.3	937.5	888.3	839.1	826.7	746.9	640.4	587.2	554.3	488.6	439.4
137.5°	839.4	879.6	839.4	799.0	789.0	721.5	631.4	586.4	557.7	500.5	457.5
140°	805.6	843.3	805.6	768.0	758.6	700.3	622.5	583.6	558.3	507.7	469.8
142.5°	777.8	810.2	777.8	745.5	737.4	686.1	617.8	583.6	560.3	513.8	478.8
145°	736.1	760.6	736.1	711.6	705.4	663.6	607.6	579.7	560.4	521.7	492.6
147.5°	704.0	724.4	704.0	683.6	678.6	645.6	601.7	579.7	564.2	533.2	509.9
150°	683.8	700.3	683.8	667.4	663.3	635.5	598.3	579.7	566.2	539.3	519.0
152.5°	666.6	679.0	666.6	654.2	651.0	627.2	595.6	579.7	567.6	543.2	524.9
155°	646.7	655.0	646.7	638.5	636.4	617.5	592.3	579.7	570.4	551.9	537.9
157.5°	631.1	636.8	631.1	625.2	623.8	609.1	589.5	579.7	573.3	560.5	550.9
160°	621.7	625.0	621.7	618.3	617.5	604.9	588.1	579.7	574.7	564.5	556.9
162.5°	615.6	618.7	615.6	612.4	611.6	601.0	586.8	579.7	576.1	568.7	563.2
165°	606.7	610.0	606.7	603.4	602.6	594.9	584.8	579.7	578.0	574.7	572.2
167.5°	600.4	601.8	600.4	599.0	598.6	593.7	587.0	583.6	582.2	579.4	577.3
170°	598.6	598.6	598.6	598.6	598.6	593.7	587.0	583.6	583.5	583.4	583.3
172.5°	594.0	592.7	594.0	595.2	595.5	591.6	586.3	583.6	583.6	583.6	583.6
175°	591.1	591.1	591.1	591.1	591.1	588.6	585.3	583.6	584.4	586.0	587.2
177.5°	588.6	587.2	588.6	589.9	590.3	588.3	585.7	584.4	585.0	586.2	587.2
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934312

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	2049.6	2038.1	2038.1	2019.0	2011.3	2005.6	1996.0	1967.4	1959.7	1952.1	1963.5
5°	2066.8	2045.7	2030.4	1996.0	1967.4	1955.9	1919.6	1850.7	1804.8	1770.4	1751.3
7.5°	2070.6	2043.8	2015.2	1961.6	1892.8	1862.2	1751.3	1625.1	1590.7	1560.1	1541.0
10°	2066.8	2036.2	1996.0	1915.7	1753.2	1699.7	1588.8	1506.6	1485.5	1479.8	1485.5
12.5°	2053.4	2024.7	1969.3	1835.4	1607.9	1571.6	1506.6	1458.8	1454.9	1464.5	1516.1
15°	2030.4	2003.7	1938.7	1728.4	1527.6	1500.8	1454.9	1437.7	1458.8	1525.7	1680.6
17.5°	2007.5	1976.9	1896.6	1623.2	1466.4	1447.3	1414.8	1449.2	1567.7	1657.6	1709.2
20°	1976.9	1940.6	1848.8	1546.7	1422.4	1405.2	1389.9	1544.8	1634.7	1667.2	1695.8
22.5°	1940.6	1902.3	1783.8	1493.2	1376.5	1363.2	1372.7	1598.3	1634.7	1657.6	1682.5
25°	1892.8	1860.3	1707.3	1451.1	1340.2	1324.9	1361.2	1592.6	1613.6	1619.4	1669.1
27.5°	1848.8	1806.7	1627.0	1412.9	1296.2	1290.5	1370.8	1567.7	1583.0	1588.8	1642.3
30°	1795.3	1732.2	1537.2	1372.7	1250.4	1248.4	1372.7	1537.2	1533.3	1548.6	1602.2
32.5°	1739.8	1621.3	1435.8	1323.0	1206.4	1204.5	1359.3	1491.3	1487.4	1508.5	1548.6
35°	1688.2	1535.2	1298.2	1265.6	1150.9	1152.8	1326.8	1437.7	1439.6	1458.8	1483.6
37.5°	1634.7	1460.7	1147.1	1202.6	1097.5	1097.5	1282.9	1388.0	1384.2	1389.9	1424.3
40°	1571.6	1344.0	1013.4	1120.4	1047.8	1042.0	1229.3	1334.5	1321.1	1319.2	1367.0
42.5°	1504.6	1215.9	913.9	1011.4	990.4	982.8	1164.3	1269.5	1244.6	1250.4	1311.5
45°	1432.0	1181.5	837.5	854.7	931.1	925.4	1093.7	1194.9	1177.7	1193.0	1256.1
47.5°	1359.3	1112.8	812.6	709.4	868.0	866.1	1015.3	1122.3	1112.8	1128.1	1194.9
50°	1259.9	1036.3	810.7	608.0	797.3	805.0	921.6	1051.6	1051.6	1065.0	1135.7
52.5°	1131.9	942.6	736.1	550.7	715.1	738.0	839.4	990.4	994.2	1007.6	1070.7
55°	1015.3	845.1	682.6	506.7	617.6	667.3	759.1	927.3	935.0	948.4	1005.7
57.5°	908.2	703.6	671.1	455.1	527.7	575.5	688.3	866.1	870.0	881.4	936.9
60°	793.5	508.6	615.7	399.6	449.3	485.6	623.3	793.5	806.9	814.5	862.3
62.5°	663.5	369.0	558.3	361.4	411.1	418.7	569.8	724.6	741.9	747.6	776.3
65°	472.3	309.7	474.2	328.9	370.9	372.8	512.4	653.9	669.2	678.8	699.8
67.5°	319.3	252.4	361.4	298.3	340.3	342.2	457.0	571.7	592.7	600.4	613.8
70°	221.8	168.3	267.7	265.8	305.9	309.7	397.7	497.1	516.2	522.0	529.6
72.5°	162.5	135.8	221.8	239.0	269.6	273.4	336.5	413.0	432.1	437.8	441.7
75°	124.3	143.4	179.7	208.4	229.4	231.4	275.3	336.5	349.9	353.7	355.6
77.5°	99.4	133.8	131.9	168.3	187.4	183.6	216.1	260.0	271.5	271.5	271.5
80°	74.6	105.2	99.4	120.5	137.7	133.8	154.9	185.5	189.3	193.1	191.2
82.5°	55.4	66.9	66.9	76.5	91.8	88.0	103.2	120.5	120.5	120.5	124.3
85°	34.4	38.2	30.6	40.2	51.6	49.7	57.4	65.0	66.9	66.9	63.1
87.5°	21.0	17.2	9.6	15.3	22.9	22.9	26.8	28.7	26.8	26.8	26.8
90°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0
92.5°	69.4	42.5	15.8	42.5	69.4	76.1	107.0	148.1	168.6	147.8	106.1
95°	135.9	86.9	37.9	86.9	135.9	148.2	263.1	416.3	493.0	440.0	333.8
97.5°	151.9	108.6	65.4	108.6	151.9	162.7	354.4	609.9	737.7	704.2	637.1
100°	165.1	125.9	86.7	125.9	165.1	174.9	387.7	671.2	813.0	815.5	820.3
102.5°	178.0	141.5	104.9	141.5	178.0	187.2	402.9	690.5	834.3	877.0	962.5
105°	197.6	166.5	135.6	166.5	197.6	205.3	414.2	692.7	831.9	927.7	1119.4
107.5°	224.9	196.0	167.1	196.0	224.9	232.1	416.2	661.8	784.6	918.2	1185.5
110°	240.6	214.4	188.3	214.4	240.6	247.1	413.2	634.5	745.2	894.6	1193.4



TEST NUMBER: P934312

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	259.0	234.1	209.3	234.1	259.0	265.2	413.3	610.7	709.4	862.2	1168.0
115°	286.7	263.8	240.8	263.8	286.7	292.4	417.1	583.4	666.4	813.7	1108.3
117.5°	313.6	292.7	271.9	292.7	313.6	318.8	424.8	566.1	636.8	769.8	1035.6
120°	329.3	309.6	290.1	309.6	329.3	334.2	431.2	560.4	625.0	746.4	989.4
122.5°	347.3	327.5	307.7	327.5	347.3	352.3	440.1	557.3	616.0	725.3	944.1
125°	371.0	353.0	335.0	353.0	371.0	375.5	452.4	554.9	606.1	699.0	884.9
127.5°	393.4	375.2	357.1	375.2	393.4	398.0	464.6	553.4	597.8	677.6	837.2
130°	408.1	388.4	368.8	388.4	408.1	413.0	473.5	554.3	594.6	665.7	807.7
132.5°	420.4	400.7	381.1	400.7	420.4	425.2	480.8	554.9	592.0	655.5	782.7
135°	434.9	417.1	399.2	417.1	434.9	439.4	488.6	554.3	587.2	640.4	746.9
137.5°	453.1	435.5	417.8	435.5	453.1	457.5	500.5	557.7	586.4	631.4	721.5
140°	465.7	449.4	433.1	449.4	465.7	469.8	507.7	558.3	583.6	622.5	700.3
142.5°	475.0	459.9	444.9	459.9	475.0	478.8	513.8	560.3	583.6	617.8	686.1
145°	489.4	476.2	463.1	476.2	489.4	492.6	521.7	560.4	579.7	607.6	663.6
147.5°	506.8	494.0	481.2	494.0	506.8	509.9	533.2	564.2	579.7	601.7	645.6
150°	516.1	504.6	493.0	504.6	516.1	519.0	539.3	566.2	579.7	598.3	635.5
152.5°	522.7	514.0	505.2	514.0	522.7	524.9	543.2	567.6	579.7	595.6	627.2
155°	536.3	529.8	523.3	529.8	536.3	537.9	551.9	570.4	579.7	592.3	617.5
157.5°	549.3	543.0	536.7	543.0	549.3	550.9	560.5	573.3	579.7	589.5	609.1
160°	555.6	550.8	545.8	550.8	555.6	556.9	564.5	574.7	579.7	588.1	604.9
162.5°	562.2	558.6	554.9	558.6	562.2	563.2	568.7	576.1	579.7	586.8	601.0
165°	571.3	568.1	564.7	568.1	571.3	572.2	574.7	578.0	579.7	584.8	594.9
167.5°	576.9	575.3	573.8	575.3	576.9	577.3	579.4	582.2	583.6	587.0	593.7
170°	582.9	581.2	579.7	581.2	582.9	583.3	583.4	583.5	583.6	587.0	593.7
172.5°	583.5	583.3	582.9	583.3	583.5	583.6	583.6	583.6	583.6	586.3	591.6
175°	587.2	587.2	587.2	587.2	587.2	587.2	586.0	584.4	583.6	585.3	588.6
177.5°	587.2	587.2	587.2	587.2	587.2	587.2	586.2	585.0	584.4	585.7	588.3
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934312  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	1950.1	1944.4	1952.1	1931.0	1952.1	1944.4	1950.1	1963.5	1952.1	1959.7	1967.4
5°	1711.1	1701.6	1671.0	1646.1	1671.0	1701.6	1711.1	1751.3	1770.4	1804.8	1850.7
7.5°	1529.5	1521.9	1514.2	1498.9	1514.2	1521.9	1529.5	1541.0	1560.1	1590.7	1625.1
10°	1489.4	1491.3	1502.7	1500.8	1502.7	1491.3	1489.4	1485.5	1479.8	1485.5	1506.6
12.5°	1592.6	1609.8	1672.9	1669.1	1672.9	1609.8	1592.6	1516.1	1464.5	1454.9	1458.8
15°	1711.1	1716.9	1730.3	1732.2	1730.3	1716.9	1711.1	1680.6	1525.7	1458.8	1437.7
17.5°	1722.6	1724.5	1734.1	1734.1	1734.1	1724.5	1722.6	1709.2	1657.6	1567.7	1449.2
20°	1713.1	1716.9	1736.0	1739.8	1736.0	1716.9	1713.1	1695.8	1667.2	1634.7	1544.8
22.5°	1709.2	1716.9	1732.2	1730.3	1732.2	1716.9	1709.2	1682.5	1657.6	1634.7	1598.3
25°	1690.1	1690.1	1692.0	1693.9	1692.0	1690.1	1690.1	1669.1	1619.4	1613.6	1592.6
27.5°	1650.0	1653.8	1665.3	1663.3	1665.3	1653.8	1650.0	1642.3	1588.8	1583.0	1567.7
30°	1613.6	1609.8	1600.2	1592.6	1600.2	1609.8	1613.6	1602.2	1548.6	1533.3	1537.2
32.5°	1552.4	1542.9	1533.3	1527.6	1533.3	1542.9	1552.4	1548.6	1508.5	1487.4	1491.3
35°	1479.8	1481.7	1479.8	1474.1	1479.8	1481.7	1479.8	1483.6	1458.8	1439.6	1437.7
37.5°	1428.2	1432.0	1430.1	1422.4	1430.1	1432.0	1428.2	1424.3	1389.9	1384.2	1388.0
40°	1374.6	1376.5	1374.6	1368.9	1374.6	1376.5	1374.6	1367.0	1319.2	1321.1	1334.5
42.5°	1323.0	1321.1	1315.4	1311.5	1315.4	1321.1	1323.0	1311.5	1250.4	1244.6	1269.5
45°	1263.7	1265.6	1254.2	1248.4	1254.2	1265.6	1263.7	1256.1	1193.0	1177.7	1194.9
47.5°	1204.5	1204.5	1194.9	1189.2	1194.9	1204.5	1204.5	1194.9	1128.1	1112.8	1122.3
50°	1141.4	1139.6	1126.2	1124.3	1126.2	1139.6	1141.4	1135.7	1065.0	1051.6	1051.6
52.5°	1068.8	1068.8	1070.7	1074.5	1070.7	1068.8	1068.8	1070.7	1007.6	994.2	990.4
55°	1005.7	1007.6	1021.0	1024.8	1021.0	1007.6	1005.7	1005.7	948.4	935.0	927.3
57.5°	940.7	940.7	950.3	950.3	950.3	940.7	940.7	936.9	881.4	870.0	866.1
60°	866.1	870.0	877.6	875.7	877.6	870.0	866.1	862.3	814.5	806.9	793.5
62.5°	787.7	791.6	793.5	789.7	793.5	791.6	787.7	776.3	747.6	741.9	724.6
65°	705.5	709.4	711.3	707.4	711.3	709.4	705.5	699.8	678.8	669.2	653.9
67.5°	621.4	619.5	617.6	625.2	617.6	619.5	621.4	613.8	600.4	592.7	571.7
70°	535.4	535.4	533.4	537.3	533.4	535.4	535.4	529.6	522.0	516.2	497.1
72.5°	443.6	441.7	449.3	443.6	449.3	441.7	443.6	441.7	437.8	432.1	413.0
75°	353.7	357.5	353.7	359.5	353.7	357.5	353.7	355.6	353.7	349.9	336.5
77.5°	269.6	273.4	269.6	269.6	269.6	273.4	269.6	271.5	271.5	271.5	260.0
80°	191.2	189.3	189.3	187.4	189.3	189.3	191.2	191.2	193.1	189.3	185.5
82.5°	122.4	120.5	120.5	124.3	120.5	120.5	122.4	124.3	120.5	120.5	120.5
85°	66.9	68.8	65.0	65.0	65.0	68.8	66.9	63.1	66.9	66.9	65.0
87.5°	24.9	22.9	22.9	22.9	22.9	22.9	24.9	26.8	26.8	26.8	28.7
90°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7
92.5°	74.9	71.9	59.9	48.1	59.9	71.9	74.9	106.1	147.8	168.6	148.1
95°	254.2	245.2	209.1	173.0	209.1	245.2	254.2	333.8	440.0	493.0	416.3
97.5°	586.8	569.6	500.9	432.3	500.9	569.6	586.8	637.1	704.2	737.7	609.9
100°	824.0	803.5	721.8	639.9	721.8	803.5	824.0	820.3	815.5	813.0	671.2
102.5°	1026.6	1009.1	939.0	868.9	939.0	1009.1	1026.6	962.5	877.0	834.3	690.5
105°	1263.1	1253.6	1215.9	1178.3	1215.9	1253.6	1263.1	1119.4	927.7	831.9	692.7
107.5°	1386.0	1388.3	1397.4	1406.5	1397.4	1388.3	1386.0	1185.5	918.2	784.6	661.8
110°	1417.5	1427.3	1466.5	1505.8	1466.5	1427.3	1417.5	1193.4	894.6	745.2	634.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1397.4	1412.5	1472.7	1532.9	1472.7	1412.5	1397.4	1168.0	862.2	709.4	610.7
115°	1329.2	1350.1	1433.6	1517.2	1433.6	1350.1	1329.2	1108.3	813.7	666.4	583.4
117.5°	1235.1	1258.2	1350.9	1443.6	1350.9	1258.2	1235.1	1035.6	769.8	636.8	566.1
120°	1171.6	1194.0	1284.1	1374.2	1284.1	1194.0	1171.6	989.4	746.4	625.0	560.4
122.5°	1108.2	1130.4	1219.2	1308.0	1219.2	1130.4	1108.2	944.1	725.3	616.0	557.3
125°	1024.3	1044.7	1126.5	1208.3	1126.5	1044.7	1024.3	884.9	699.0	606.1	554.9
127.5°	956.9	974.1	1043.1	1112.1	1043.1	974.1	956.9	837.2	677.6	597.8	553.4
130°	914.2	930.2	994.0	1057.7	994.0	930.2	914.2	807.7	665.7	594.6	554.3
132.5°	878.0	892.2	949.4	1006.5	949.4	892.2	878.0	782.7	655.5	592.0	554.9
135°	826.7	839.1	888.3	937.5	888.3	839.1	826.7	746.9	640.4	587.2	554.3
137.5°	789.0	799.0	839.4	879.6	839.4	799.0	789.0	721.5	631.4	586.4	557.7
140°	758.6	768.0	805.6	843.3	805.6	768.0	758.6	700.3	622.5	583.6	558.3
142.5°	737.4	745.5	777.8	810.2	777.8	745.5	737.4	686.1	617.8	583.6	560.3
145°	705.4	711.6	736.1	760.6	736.1	711.6	705.4	663.6	607.6	579.7	560.4
147.5°	678.6	683.6	704.0	724.4	704.0	683.6	678.6	645.6	601.7	579.7	564.2
150°	663.3	667.4	683.8	700.3	683.8	667.4	663.3	635.5	598.3	579.7	566.2
152.5°	651.0	654.2	666.6	679.0	666.6	654.2	651.0	627.2	595.6	579.7	567.6
155°	636.4	638.5	646.7	655.0	646.7	638.5	636.4	617.5	592.3	579.7	570.4
157.5°	623.8	625.2	631.1	636.8	631.1	625.2	623.8	609.1	589.5	579.7	573.3
160°	617.5	618.3	621.7	625.0	621.7	618.3	617.5	604.9	588.1	579.7	574.7
162.5°	611.6	612.4	615.6	618.7	615.6	612.4	611.6	601.0	586.8	579.7	576.1
165°	602.6	603.4	606.7	610.0	606.7	603.4	602.6	594.9	584.8	579.7	578.0
167.5°	598.6	599.0	600.4	601.8	600.4	599.0	598.6	593.7	587.0	583.6	582.2
170°	598.6	598.6	598.6	598.6	598.6	598.6	598.6	593.7	587.0	583.6	583.5
172.5°	595.5	595.2	594.0	592.7	594.0	595.2	595.5	591.6	586.3	583.6	583.6
175°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	588.6	585.3	583.6	584.4
177.5°	590.3	589.9	588.6	587.2	588.6	589.9	590.3	588.3	585.7	584.4	585.0
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	1996.0	2005.6	2011.3	2019.0	2038.1
5°	1919.6	1955.9	1967.4	1996.0	2030.4
7.5°	1751.3	1862.2	1892.8	1961.6	2015.2
10°	1588.8	1699.7	1753.2	1915.7	1996.0
12.5°	1506.6	1571.6	1607.9	1835.4	1969.3
15°	1454.9	1500.8	1527.6	1728.4	1938.7
17.5°	1414.8	1447.3	1466.4	1623.2	1896.6
20°	1389.9	1405.2	1422.4	1546.7	1848.8
22.5°	1372.7	1363.2	1376.5	1493.2	1783.8
25°	1361.2	1324.9	1340.2	1451.1	1707.3
27.5°	1370.8	1290.5	1296.2	1412.9	1627.0
30°	1372.7	1248.4	1250.4	1372.7	1537.2
32.5°	1359.3	1204.5	1206.4	1323.0	1435.8
35°	1326.8	1152.8	1150.9	1265.6	1298.2
37.5°	1282.9	1097.5	1097.5	1202.6	1147.1
40°	1229.3	1042.0	1047.8	1120.4	1013.4
42.5°	1164.3	982.8	990.4	1011.4	913.9
45°	1093.7	925.4	931.1	854.7	837.5
47.5°	1015.3	866.1	868.0	709.4	812.6
50°	921.6	805.0	797.3	608.0	810.7
52.5°	839.4	738.0	715.1	550.7	736.1
55°	759.1	667.3	617.6	506.7	682.6
57.5°	688.3	575.5	527.7	455.1	671.1
60°	623.3	485.6	449.3	399.6	615.7
62.5°	569.8	418.7	411.1	361.4	558.3
65°	512.4	372.8	370.9	328.9	474.2
67.5°	457.0	342.2	340.3	298.3	361.4
70°	397.7	309.7	305.9	265.8	267.7
72.5°	336.5	273.4	269.6	239.0	221.8
75°	275.3	231.4	229.4	208.4	179.7
77.5°	216.1	183.6	187.4	168.3	131.9
80°	154.9	133.8	137.7	120.5	99.4
82.5°	103.2	88.0	91.8	76.5	66.9
85°	57.4	49.7	51.6	40.2	30.6
87.5°	26.8	22.9	22.9	15.3	9.6
90°	17.3	11.0	10.2	7.1	3.9
92.5°	107.0	76.1	69.4	42.5	15.8
95°	263.1	148.2	135.9	86.9	37.9
97.5°	354.4	162.7	151.9	108.6	65.4
100°	387.7	174.9	165.1	125.9	86.7
102.5°	402.9	187.2	178.0	141.5	104.9
105°	414.2	205.3	197.6	166.5	135.6
107.5°	416.2	232.1	224.9	196.0	167.1
110°	413.2	247.1	240.6	214.4	188.3



TEST NUMBER: P934312

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	413.3	265.2	259.0	234.1	209.3
115°	417.1	292.4	286.7	263.8	240.8
117.5°	424.8	318.8	313.6	292.7	271.9
120°	431.2	334.2	329.3	309.6	290.1
122.5°	440.1	352.3	347.3	327.5	307.7
125°	452.4	375.5	371.0	353.0	335.0
127.5°	464.6	398.0	393.4	375.2	357.1
130°	473.5	413.0	408.1	388.4	368.8
132.5°	480.8	425.2	420.4	400.7	381.1
135°	488.6	439.4	434.9	417.1	399.2
137.5°	500.5	457.5	453.1	435.5	417.8
140°	507.7	469.8	465.7	449.4	433.1
142.5°	513.8	478.8	475.0	459.9	444.9
145°	521.7	492.6	489.4	476.2	463.1
147.5°	533.2	509.9	506.8	494.0	481.2
150°	539.3	519.0	516.1	504.6	493.0
152.5°	543.2	524.9	522.7	514.0	505.2
155°	551.9	537.9	536.3	529.8	523.3
157.5°	560.5	550.9	549.3	543.0	536.7
160°	564.5	556.9	555.6	550.8	545.8
162.5°	568.7	563.2	562.2	558.6	554.9
165°	574.7	572.2	571.3	568.1	564.7
167.5°	579.4	577.3	576.9	575.3	573.8
170°	583.4	583.3	582.9	581.2	579.7
172.5°	583.6	583.6	583.5	583.3	582.9
175°	586.0	587.2	587.2	587.2	587.2
177.5°	586.2	587.2	587.2	587.2	587.2
180°	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934312  
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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	13.29	14.22	14.17	15.13	16.28	16.12	17.06	17.01	17.97	19.12
	3H	13.77	14.61	14.67	15.52	16.70	17.48	18.32	18.38	19.23	20.41
	4H	13.96	14.76	14.88	15.68	16.87	17.93	18.72	18.84	19.64	20.83
	6H	14.09	14.82	15.01	15.75	16.95	18.22	18.95	19.14	19.88	21.08
	8H	14.09	14.79	15.02	15.73	16.93	18.30	18.99	19.23	19.94	21.14
	12H	14.06	14.73	15.00	15.67	16.89	18.34	19.00	19.28	19.94	21.17
4H	2H	14.33	15.12	15.25	16.04	17.23	16.54	17.34	17.46	18.26	19.45
	3H	15.36	16.03	16.29	16.98	18.18	18.06	18.72	18.99	19.67	20.87
	4H	15.64	16.25	16.58	17.19	18.42	18.59	19.19	19.53	20.14	21.37
	6H	15.77	16.29	16.73	17.26	18.49	18.96	19.48	19.91	20.45	21.68
	8H	15.78	16.27	16.74	17.23	18.47	19.07	19.56	20.03	20.52	21.76
	12H	15.75	16.19	16.73	17.17	18.42	19.13	19.57	20.11	20.55	21.80
8H	4H	16.10	16.59	17.06	17.55	18.80	18.72	19.21	19.68	20.17	21.41
	6H	16.37	16.77	17.35	17.78	19.02	19.16	19.56	20.14	20.57	21.81
	8H	16.41	16.77	17.40	17.76	19.02	19.32	19.67	20.31	20.67	21.93
	12H	16.40	16.71	17.39	17.70	19.01	19.42	19.73	20.41	20.72	22.03
12H	4H	16.11	16.55	17.09	17.53	18.78	18.69	19.13	19.66	20.11	21.36
	6H	16.43	16.79	17.42	17.78	19.04	19.16	19.52	20.15	20.51	21.77
	8H	16.50	16.81	17.49	17.80	19.11	19.33	19.64	20.32	20.63	21.93