

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: P933813

Luminaire Tested: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

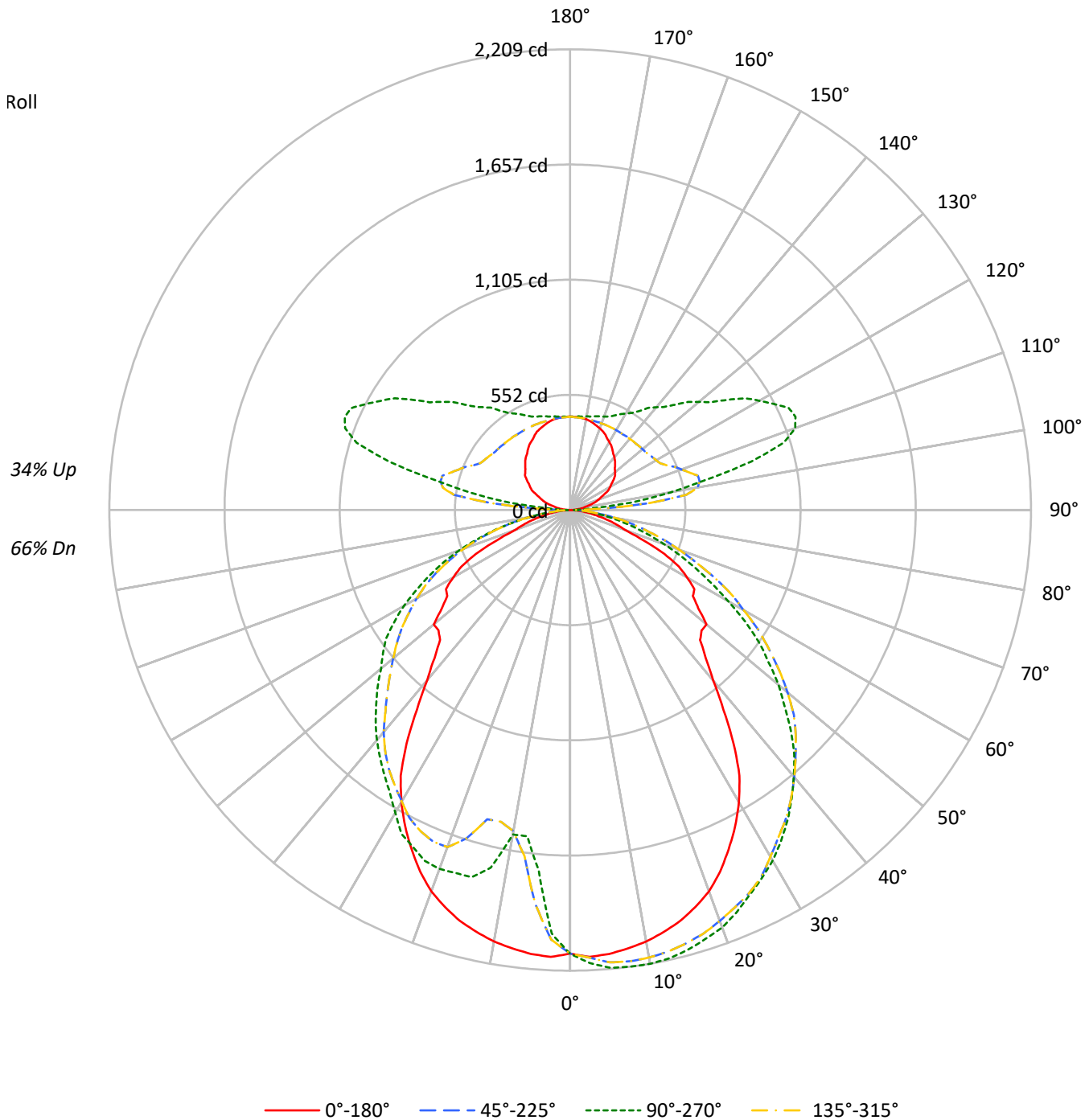
Test Method: LM-79-2019  
Report Number: P933813  
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8418.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 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°	6578	6578	6578	6578
5°	6629	6640	6629	5221
10°	6588	6541	6588	4676
15°	6518	6399	6518	5343
20°	6385	6231	6385	5355
25°	6108	5986	6108	5241
30°	5750	5783	5750	4992
35°	5128	5526	5128	4718
40°	4276	5223	4276	4511
45°	3823	4869	3823	4273
50°	4065	4446	4065	4035
55°	3828	3991	3828	3897
60°	3951	3390	3951	3569
65°	3588	2802	3588	3132
70°	2491	2233	2491	2626
75°	2192	1651	2192	1976
80°	1779	1091	1779	1188
85°	1043	578	1043	491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5856 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	2.3
10°-20°	545.0	6.5
20°-30°	842.5	10.0
30°-40°	1005.8	11.9
40°-50°	1011.7	12.0
50°-60°	880.3	10.5
60°-70°	624.2	7.4
70°-80°	330.2	3.9
80°-90°	84.0	1.0
90°-100°	218.2	2.6
100°-110°	573.7	6.8
110°-120°	594.9	7.1
120°-130°	477.2	5.7
130°-140°	374.4	4.4
140°-150°	287.4	3.4
150°-160°	207.0	2.5
160°-170°	126.6	1.5
170°-180°	42.8	0.5
0°-30°	1579.6	18.8
0°-40°	2585.4	30.7
0°-60°	4477.4	53.2
0°-90°	5515.7	65.5
90°-120°	1386.9	16.5
90°-150°	2525.9	30.0
90°-180°	2902.0	34.5
0°-180°	8418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2127	2127	2127	2127	2127	
5°	2137	2203	2137	1732	2137	203
15°	2040	2183	2040	1823	2040	574
25°	1797	2036	1797	1783	1797	825
35°	1366	1817	1366	1551	1366	845
45°	881	1497	881	1314	881	706
55°	718	1105	718	1078	718	660
65°	499	666	499	744	499	477
75°	189	316	189	378	189	199
85°	32	80	32	68	32	43
90°	3	11	3	11	3	4
95°	29	132	29	132	29	32
105°	103	898	103	898	103	110
115°	184	1157	184	1157	184	181
125°	255	921	255	921	255	227
135°	304	715	304	715	304	236
145°	353	580	353	580	353	221
155°	399	499	399	499	399	183
165°	431	465	431	465	431	122
175°	448	451	448	451	448	42
180°	448	448	448	448	448	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2144.7	2144.7	2156.8	2160.8	2160.8	2154.8	2148.8	2154.8	2172.9	2178.9	2176.9
5°	2136.7	2152.8	2174.9	2178.9	2183.0	2181.0	2176.9	2181.0	2201.1	2205.1	2207.1
7.5°	2120.6	2150.8	2178.9	2185.0	2191.0	2185.0	2183.0	2187.0	2207.1	2211.1	2211.1
10°	2100.5	2142.7	2174.9	2178.9	2185.0	2178.9	2178.9	2187.0	2207.1	2211.1	2213.2
12.5°	2072.3	2130.7	2160.8	2164.9	2172.9	2170.9	2168.9	2176.9	2197.1	2201.1	2201.1
15°	2040.1	2108.5	2136.7	2140.7	2154.8	2150.8	2150.8	2158.8	2181.0	2187.0	2185.0
17.5°	1995.9	2080.4	2112.6	2118.6	2128.7	2126.6	2128.7	2136.7	2156.8	2160.8	2162.9
20°	1945.6	2042.1	2080.4	2086.4	2096.5	2096.5	2096.5	2106.5	2126.6	2134.7	2134.7
22.5°	1877.2	2001.9	2042.1	2046.2	2058.2	2058.2	2062.3	2076.3	2094.4	2096.5	2096.5
25°	1796.7	1957.6	1991.8	2003.9	2016.0	2022.0	2028.1	2036.1	2042.1	2040.1	2042.1
27.5°	1712.2	1901.3	1945.6	1953.6	1969.7	1975.7	1983.8	1985.8	1987.8	1993.8	1989.8
30°	1617.6	1822.8	1889.2	1897.3	1923.4	1927.5	1919.4	1923.4	1933.5	1937.5	1941.5
32.5°	1511.0	1706.1	1830.9	1849.0	1873.1	1861.1	1859.0	1865.1	1881.2	1881.2	1885.2
35°	1366.1	1615.6	1776.6	1792.7	1810.8	1796.7	1804.7	1806.7	1816.8	1822.8	1820.8
37.5°	1207.2	1537.1	1720.2	1732.3	1746.4	1728.3	1740.3	1746.4	1754.4	1750.4	1750.4
40°	1066.3	1414.4	1653.8	1661.9	1673.9	1659.9	1671.9	1676.0	1680.0	1676.0	1673.9
42.5°	961.7	1279.6	1583.4	1593.5	1585.4	1595.5	1599.5	1607.6	1601.5	1593.5	1593.5
45°	881.2	1243.4	1507.0	1519.0	1507.0	1523.1	1529.1	1529.1	1511.0	1507.0	1504.9
47.5°	855.1	1171.0	1430.5	1430.5	1424.5	1444.6	1454.6	1440.6	1422.5	1416.4	1416.4
50°	853.1	1090.5	1325.9	1317.8	1346.0	1370.1	1360.1	1346.0	1331.9	1309.8	1309.8
52.5°	774.6	991.9	1191.1	1221.3	1265.5	1279.6	1263.5	1249.4	1225.3	1215.2	1207.2
55°	718.3	889.3	1068.3	1128.7	1175.0	1193.1	1162.9	1148.8	1112.6	1106.6	1102.6
57.5°	706.2	740.4	955.7	1032.1	1088.5	1086.5	1068.3	1042.2	1012.0	1006.0	1004.0
60°	647.9	535.2	835.0	925.5	983.8	977.8	961.7	937.6	909.4	905.4	901.4
62.5°	587.5	388.3	698.1	800.8	883.2	881.2	867.2	830.9	810.8	800.8	792.7
65°	499.0	325.9	497.0	666.0	784.7	788.7	758.5	732.4	710.2	698.1	696.1
67.5°	380.3	265.6	336.0	555.3	690.1	686.1	647.9	635.8	607.6	601.6	589.5
70°	281.7	177.1	233.4	450.7	597.6	587.5	557.3	543.2	517.1	503.0	494.9
72.5°	233.4	142.8	171.0	350.1	503.0	490.9	464.8	448.7	426.5	414.5	406.4
75°	189.1	150.9	130.8	259.5	408.4	400.4	376.2	360.1	342.0	325.9	327.9
77.5°	138.8	140.8	104.6	191.1	323.9	311.9	297.8	277.7	269.6	253.5	253.5
80°	104.6	110.7	78.5	130.8	233.4	233.4	221.3	207.2	193.1	185.1	185.1
82.5°	70.4	70.4	58.3	82.5	158.9	152.9	144.9	140.8	132.8	128.8	128.8
85°	32.2	40.2	36.2	50.3	86.5	90.5	90.5	86.5	84.5	80.5	82.5
87.5°	10.1	18.1	22.1	28.2	44.3	46.3	48.3	48.3	48.3	50.3	50.3
90°	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.2	11.4	11.4
92.5°	12.0	32.4	52.9	58.0	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.8	66.2	103.6	113.0	200.6	317.5	375.9	335.4	254.5	193.8	186.9
97.5°	49.9	82.9	115.9	124.1	270.2	465.1	562.5	536.9	485.8	447.4	434.3
100°	66.1	96.0	125.9	133.4	295.6	511.8	619.9	621.8	625.5	628.3	612.7
102.5°	79.9	107.8	135.7	142.7	307.2	526.5	636.1	668.7	733.8	782.7	769.3
105°	103.4	127.0	150.6	156.5	315.8	528.1	634.3	707.3	853.4	963.0	955.8
107.5°	127.4	149.4	171.5	177.0	317.4	504.6	598.2	700.1	903.9	1056.8	1058.5
110°	143.6	163.5	183.4	188.4	315.0	483.8	568.2	682.1	909.9	1080.8	1088.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.6	178.5	197.5	202.2	315.1	465.6	540.9	657.5	890.6	1065.5	1077.0
115°	183.6	201.1	218.6	223.0	318.0	444.7	508.1	620.4	845.0	1013.5	1029.4
117.5°	207.3	223.2	239.1	243.1	323.9	431.7	485.6	587.0	789.7	941.7	959.4
120°	221.1	236.1	251.1	254.8	328.7	427.2	476.5	569.1	754.4	893.3	910.5
122.5°	234.7	249.8	264.8	268.6	335.6	424.9	469.6	553.0	719.8	844.9	861.8
125°	255.4	269.2	283.0	286.4	345.0	423.1	462.1	532.9	674.6	780.9	796.5
127.5°	272.2	286.1	300.0	303.5	354.3	422.0	455.8	516.6	638.3	729.5	742.7
130°	281.2	296.2	311.2	314.9	361.1	422.6	453.4	507.6	615.9	697.1	709.3
132.5°	290.6	305.5	320.5	324.2	366.6	423.1	451.3	499.8	596.8	669.5	680.4
135°	304.4	318.0	331.6	335.0	372.6	422.7	447.7	488.3	569.5	630.4	639.8
137.5°	318.5	332.0	345.4	348.8	381.6	425.3	447.1	481.4	550.0	601.5	609.2
140°	330.2	342.6	355.1	358.2	387.1	425.7	445.0	474.6	533.9	578.4	585.6
142.5°	339.2	350.7	362.2	365.1	391.7	427.2	445.0	471.0	523.1	562.2	568.4
145°	353.1	363.1	373.1	375.6	397.7	427.2	442.0	463.3	505.9	537.8	542.5
147.5°	366.9	376.6	386.4	388.8	406.5	430.2	442.0	458.8	492.3	517.4	521.3
150°	375.9	384.7	393.5	395.7	411.1	431.7	442.0	456.2	484.5	505.7	508.8
152.5°	385.2	391.9	398.5	400.2	414.1	432.7	442.0	454.1	478.3	496.4	498.8
155°	399.0	403.9	408.9	410.1	420.7	434.9	442.0	451.6	470.9	485.3	486.9
157.5°	409.2	414.0	418.9	420.1	427.4	437.1	442.0	449.5	464.4	475.6	476.7
160°	416.2	419.9	423.7	424.6	430.4	438.1	442.0	448.4	461.2	470.8	471.4
162.5°	423.1	425.9	428.7	429.4	433.6	439.2	442.0	447.4	458.2	466.3	466.9
165°	430.6	433.1	435.7	436.3	438.2	440.7	442.0	445.9	453.6	459.4	460.0
167.5°	437.5	438.7	439.9	440.2	441.8	443.9	445.0	447.5	452.6	456.4	456.7
170°	442.0	443.2	444.4	444.7	444.8	444.9	445.0	447.5	452.6	456.4	456.4
172.5°	444.4	444.7	444.9	445.0	445.0	445.0	445.0	447.0	451.0	454.0	453.8
175°	447.7	447.7	447.7	447.7	446.8	445.6	445.0	446.3	448.8	450.7	450.7
177.5°	447.7	447.7	447.7	447.7	447.0	446.1	445.6	446.6	448.6	450.1	449.8
180°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2181.0	2174.9	2181.0	2176.9	2178.9	2172.9	2154.8	2148.8	2154.8	2160.8	2160.8
5°	2207.1	2203.1	2207.1	2207.1	2205.1	2201.1	2181.0	2176.9	2181.0	2183.0	2178.9
7.5°	2215.2	2209.1	2215.2	2211.1	2211.1	2207.1	2187.0	2183.0	2185.0	2191.0	2185.0
10°	2215.2	2209.1	2215.2	2213.2	2211.1	2207.1	2187.0	2178.9	2178.9	2185.0	2178.9
12.5°	2205.1	2201.1	2205.1	2201.1	2201.1	2197.1	2176.9	2168.9	2170.9	2172.9	2164.9
15°	2189.0	2183.0	2189.0	2185.0	2187.0	2181.0	2158.8	2150.8	2150.8	2154.8	2140.7
17.5°	2164.9	2156.8	2164.9	2162.9	2160.8	2156.8	2136.7	2128.7	2126.6	2128.7	2118.6
20°	2136.7	2130.7	2136.7	2134.7	2134.7	2126.6	2106.5	2096.5	2096.5	2096.5	2086.4
22.5°	2092.4	2086.4	2092.4	2096.5	2096.5	2094.4	2076.3	2062.3	2058.2	2058.2	2046.2
25°	2042.1	2036.1	2042.1	2042.1	2040.1	2042.1	2036.1	2028.1	2022.0	2016.0	2003.9
27.5°	1993.8	1989.8	1993.8	1989.8	1993.8	1987.8	1985.8	1983.8	1975.7	1969.7	1953.6
30°	1945.6	1941.5	1945.6	1941.5	1937.5	1933.5	1923.4	1919.4	1927.5	1923.4	1897.3
32.5°	1885.2	1881.2	1885.2	1885.2	1881.2	1881.2	1865.1	1859.0	1861.1	1873.1	1849.0
35°	1822.8	1816.8	1822.8	1820.8	1822.8	1816.8	1806.7	1804.7	1796.7	1810.8	1792.7
37.5°	1750.4	1744.4	1750.4	1750.4	1750.4	1754.4	1746.4	1740.3	1728.3	1746.4	1732.3
40°	1676.0	1667.9	1676.0	1673.9	1676.0	1680.0	1676.0	1671.9	1659.9	1673.9	1661.9
42.5°	1591.5	1589.4	1591.5	1593.5	1593.5	1601.5	1607.6	1599.5	1595.5	1585.4	1593.5
45°	1500.9	1496.9	1500.9	1504.9	1507.0	1511.0	1529.1	1529.1	1523.1	1507.0	1519.0
47.5°	1404.3	1394.3	1404.3	1416.4	1416.4	1422.5	1440.6	1454.6	1444.6	1424.5	1430.5
50°	1301.7	1303.7	1301.7	1309.8	1309.8	1331.9	1346.0	1360.1	1370.1	1346.0	1317.8
52.5°	1201.1	1199.1	1201.1	1207.2	1215.2	1225.3	1249.4	1263.5	1279.6	1265.5	1221.3
55°	1100.5	1104.6	1100.5	1102.6	1106.6	1112.6	1148.8	1162.9	1193.1	1175.0	1128.7
57.5°	999.9	993.9	999.9	1004.0	1006.0	1012.0	1042.2	1068.3	1086.5	1088.5	1032.1
60°	883.2	875.2	883.2	901.4	905.4	909.4	937.6	961.7	977.8	983.8	925.5
62.5°	780.6	766.6	780.6	792.7	800.8	810.8	830.9	867.2	881.2	883.2	800.8
65°	672.0	666.0	672.0	696.1	698.1	710.2	732.4	758.5	788.7	784.7	666.0
67.5°	573.4	573.4	573.4	589.5	601.6	607.6	635.8	647.9	686.1	690.1	555.3
70°	482.9	480.9	482.9	494.9	503.0	517.1	543.2	557.3	587.5	597.6	450.7
72.5°	396.4	394.3	396.4	406.4	414.5	426.5	448.7	464.8	490.9	503.0	350.1
75°	319.9	315.9	319.9	327.9	325.9	342.0	360.1	376.2	400.4	408.4	259.5
77.5°	245.5	245.5	245.5	253.5	253.5	269.6	277.7	297.8	311.9	323.9	191.1
80°	183.1	181.1	183.1	185.1	185.1	193.1	207.2	221.3	233.4	233.4	130.8
82.5°	128.8	124.7	128.8	128.8	128.8	132.8	140.8	144.9	152.9	158.9	82.5
85°	80.5	80.5	80.5	82.5	80.5	84.5	86.5	90.5	90.5	86.5	50.3
87.5°	52.3	50.3	52.3	50.3	50.3	48.3	48.3	48.3	46.3	44.3	28.2
90°	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.8	19.6	13.2	8.4
92.5°	45.8	36.7	45.8	54.8	57.1	80.9	112.7	128.6	112.9	81.5	58.0
95°	159.4	131.9	159.4	186.9	193.8	254.5	335.4	375.9	317.5	200.6	113.0
97.5°	382.0	329.6	382.0	434.3	447.4	485.8	536.9	562.5	465.1	270.2	124.1
100°	550.4	488.0	550.4	612.7	628.3	625.5	621.8	619.9	511.8	295.6	133.4
102.5°	715.9	662.5	715.9	769.3	782.7	733.8	668.7	636.1	526.5	307.2	142.7
105°	927.1	898.4	927.1	955.8	963.0	853.4	707.3	634.3	528.1	315.8	156.5
107.5°	1065.5	1072.4	1065.5	1058.5	1056.8	903.9	700.1	598.2	504.6	317.4	177.0
110°	1118.2	1148.1	1118.2	1088.3	1080.8	909.9	682.1	568.2	483.8	315.0	188.4





TEST NUMBER: P933813

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1122.9	1168.8	1122.9	1077.0	1065.5	890.6	657.5	540.9	465.6	315.1	202.2
115°	1093.1	1156.8	1093.1	1029.4	1013.5	845.0	620.4	508.1	444.7	318.0	223.0
117.5°	1030.0	1100.6	1030.0	959.4	941.7	789.7	587.0	485.6	431.7	323.9	243.1
120°	979.1	1047.7	979.1	910.5	893.3	754.4	569.1	476.5	427.2	328.7	254.8
122.5°	929.6	997.3	929.6	861.8	844.9	719.8	553.0	469.6	424.9	335.6	268.6
125°	858.8	921.2	858.8	796.5	780.9	674.6	532.9	462.1	423.1	345.0	286.4
127.5°	795.3	847.9	795.3	742.7	729.5	638.3	516.6	455.8	422.0	354.3	303.5
130°	757.9	806.5	757.9	709.3	697.1	615.9	507.6	453.4	422.6	361.1	314.9
132.5°	723.9	767.4	723.9	680.4	669.5	596.8	499.8	451.3	423.1	366.6	324.2
135°	677.3	714.8	677.3	639.8	630.4	569.5	488.3	447.7	422.7	372.6	335.0
137.5°	639.9	670.7	639.9	609.2	601.5	550.0	481.4	447.1	425.3	381.6	348.8
140°	614.3	643.0	614.3	585.6	578.4	533.9	474.6	445.0	425.7	387.1	358.2
142.5°	593.1	617.8	593.1	568.4	562.2	523.1	471.0	445.0	427.2	391.7	365.1
145°	561.2	579.9	561.2	542.5	537.8	505.9	463.3	442.0	427.2	397.7	375.6
147.5°	536.8	552.3	536.8	521.3	517.4	492.3	458.8	442.0	430.2	406.5	388.8
150°	521.4	533.9	521.4	508.8	505.7	484.5	456.2	442.0	431.7	411.1	395.7
152.5°	508.2	517.7	508.2	498.8	496.4	478.3	454.1	442.0	432.7	414.1	400.2
155°	493.1	499.4	493.1	486.9	485.3	470.9	451.6	442.0	434.9	420.7	410.1
157.5°	481.2	485.6	481.2	476.7	475.6	464.4	449.5	442.0	437.1	427.4	420.1
160°	474.0	476.5	474.0	471.4	470.8	461.2	448.4	442.0	438.1	430.4	424.6
162.5°	469.3	471.7	469.3	466.9	466.3	458.2	447.4	442.0	439.2	433.6	429.4
165°	462.6	465.1	462.6	460.0	459.4	453.6	445.9	442.0	440.7	438.2	436.3
167.5°	457.7	458.8	457.7	456.7	456.4	452.6	447.5	445.0	443.9	441.8	440.2
170°	456.4	456.4	456.4	456.4	456.4	452.6	447.5	445.0	444.9	444.8	444.7
172.5°	452.8	451.9	452.8	453.8	454.0	451.0	447.0	445.0	445.0	445.0	445.0
175°	450.7	450.7	450.7	450.7	450.7	448.8	446.3	445.0	445.6	446.8	447.7
177.5°	448.8	447.7	448.8	449.8	450.1	448.6	446.6	445.6	446.1	447.0	447.7
180°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7



TEST NUMBER: P933813

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2156.8	2144.7	2144.7	2124.6	2116.6	2110.5	2100.5	2070.3	2062.3	2054.2	2066.3
5°	2174.9	2152.8	2136.7	2100.5	2070.3	2058.2	2020.0	1947.6	1899.3	1863.1	1843.0
7.5°	2178.9	2150.8	2120.6	2064.3	1991.8	1959.6	1843.0	1710.2	1673.9	1641.8	1621.6
10°	2174.9	2142.7	2100.5	2016.0	1845.0	1788.6	1671.9	1585.4	1563.3	1557.3	1563.3
12.5°	2160.8	2130.7	2072.3	1931.5	1692.1	1653.8	1585.4	1535.1	1531.1	1541.2	1595.5
15°	2136.7	2108.5	2040.1	1818.8	1607.6	1579.4	1531.1	1513.0	1535.1	1605.5	1768.5
17.5°	2112.6	2080.4	1995.9	1708.2	1543.2	1523.1	1488.8	1525.1	1649.8	1744.4	1798.7
20°	2080.4	2042.1	1945.6	1627.7	1496.9	1478.8	1462.7	1625.7	1720.2	1754.4	1784.6
22.5°	2042.1	2001.9	1877.2	1571.3	1448.6	1434.5	1444.6	1682.0	1720.2	1744.4	1770.5
25°	1991.8	1957.6	1796.7	1527.1	1410.4	1394.3	1432.5	1676.0	1698.1	1704.1	1756.4
27.5°	1945.6	1901.3	1712.2	1486.8	1364.1	1358.1	1442.6	1649.8	1665.9	1671.9	1728.3
30°	1889.2	1822.8	1617.6	1444.6	1315.8	1313.8	1444.6	1617.6	1613.6	1629.7	1686.0
32.5°	1830.9	1706.1	1511.0	1392.3	1269.5	1267.5	1430.5	1569.3	1565.3	1587.4	1629.7
35°	1776.6	1615.6	1366.1	1331.9	1211.2	1213.2	1396.3	1513.0	1515.0	1535.1	1561.3
37.5°	1720.2	1537.1	1207.2	1265.5	1154.9	1154.9	1350.0	1460.7	1456.7	1462.7	1498.9
40°	1653.8	1414.4	1066.3	1179.0	1102.6	1096.5	1293.7	1404.3	1390.3	1388.3	1438.5
42.5°	1583.4	1279.6	961.7	1064.3	1042.2	1034.1	1225.3	1335.9	1309.8	1315.8	1380.2
45°	1507.0	1243.4	881.2	899.3	979.8	973.8	1150.8	1257.5	1239.4	1255.5	1321.9
47.5°	1430.5	1171.0	855.1	746.4	913.4	911.4	1068.3	1181.0	1171.0	1187.1	1257.5
50°	1325.9	1090.5	853.1	639.8	839.0	847.0	969.8	1106.6	1106.6	1120.7	1195.1
52.5°	1191.1	991.9	774.6	579.4	752.5	776.6	883.2	1042.2	1046.2	1060.3	1126.7
55°	1068.3	889.3	718.3	533.2	649.9	702.2	798.7	975.8	983.8	997.9	1058.3
57.5°	955.7	740.4	706.2	478.8	555.3	605.6	724.3	911.4	915.4	927.5	985.9
60°	835.0	535.2	647.9	420.5	472.8	511.0	655.9	835.0	849.0	857.1	907.4
62.5°	698.1	388.3	587.5	380.3	432.6	440.6	599.6	762.5	780.6	786.7	816.9
65°	497.0	325.9	499.0	346.1	390.3	392.3	539.2	688.1	704.2	714.2	736.4
67.5°	336.0	265.6	380.3	313.9	358.1	360.1	480.9	601.6	623.7	631.8	645.8
70°	233.4	177.1	281.7	279.7	321.9	325.9	418.5	523.1	543.2	549.3	557.3
72.5°	171.0	142.8	233.4	251.5	283.7	287.7	354.1	434.6	454.7	460.7	464.8
75°	130.8	150.9	189.1	219.3	241.4	243.4	289.7	354.1	368.2	372.2	374.2
77.5°	104.6	140.8	138.8	177.1	197.2	193.1	227.4	273.6	285.7	285.7	285.7
80°	78.5	110.7	104.6	126.8	144.9	140.8	163.0	195.2	199.2	203.2	201.2
82.5°	58.3	70.4	70.4	80.5	96.6	92.6	108.6	126.8	126.8	126.8	130.8
85°	36.2	40.2	32.2	42.3	54.3	52.3	60.4	68.4	70.4	70.4	66.4
87.5°	22.1	18.1	10.1	16.1	24.1	24.1	28.2	30.2	28.2	28.2	28.2
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.2
92.5°	52.9	32.4	12.0	32.4	52.9	58.0	81.5	112.9	128.6	112.7	80.9
95°	103.6	66.2	28.8	66.2	103.6	113.0	200.6	317.5	375.9	335.4	254.5
97.5°	115.9	82.9	49.9	82.9	115.9	124.1	270.2	465.1	562.5	536.9	485.8
100°	125.9	96.0	66.1	96.0	125.9	133.4	295.6	511.8	619.9	621.8	625.5
102.5°	135.7	107.8	79.9	107.8	135.7	142.7	307.2	526.5	636.1	668.7	733.8
105°	150.6	127.0	103.4	127.0	150.6	156.5	315.8	528.1	634.3	707.3	853.4
107.5°	171.5	149.4	127.4	149.4	171.5	177.0	317.4	504.6	598.2	700.1	903.9
110°	183.4	163.5	143.6	163.5	183.4	188.4	315.0	483.8	568.2	682.1	909.9



TEST NUMBER: P933813

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	197.5	178.5	159.6	178.5	197.5	202.2	315.1	465.6	540.9	657.5	890.6
115°	218.6	201.1	183.6	201.1	218.6	223.0	318.0	444.7	508.1	620.4	845.0
117.5°	239.1	223.2	207.3	223.2	239.1	243.1	323.9	431.7	485.6	587.0	789.7
120°	251.1	236.1	221.1	236.1	251.1	254.8	328.7	427.2	476.5	569.1	754.4
122.5°	264.8	249.8	234.7	249.8	264.8	268.6	335.6	424.9	469.6	553.0	719.8
125°	283.0	269.2	255.4	269.2	283.0	286.4	345.0	423.1	462.1	532.9	674.6
127.5°	300.0	286.1	272.2	286.1	300.0	303.5	354.3	422.0	455.8	516.6	638.3
130°	311.2	296.2	281.2	296.2	311.2	314.9	361.1	422.6	453.4	507.6	615.9
132.5°	320.5	305.5	290.6	305.5	320.5	324.2	366.6	423.1	451.3	499.8	596.8
135°	331.6	318.0	304.4	318.0	331.6	335.0	372.6	422.7	447.7	488.3	569.5
137.5°	345.4	332.0	318.5	332.0	345.4	348.8	381.6	425.3	447.1	481.4	550.0
140°	355.1	342.6	330.2	342.6	355.1	358.2	387.1	425.7	445.0	474.6	533.9
142.5°	362.2	350.7	339.2	350.7	362.2	365.1	391.7	427.2	445.0	471.0	523.1
145°	373.1	363.1	353.1	363.1	373.1	375.6	397.7	427.2	442.0	463.3	505.9
147.5°	386.4	376.6	366.9	376.6	386.4	388.8	406.5	430.2	442.0	458.8	492.3
150°	393.5	384.7	375.9	384.7	393.5	395.7	411.1	431.7	442.0	456.2	484.5
152.5°	398.5	391.9	385.2	391.9	398.5	400.2	414.1	432.7	442.0	454.1	478.3
155°	408.9	403.9	399.0	403.9	408.9	410.1	420.7	434.9	442.0	451.6	470.9
157.5°	418.9	414.0	409.2	414.0	418.9	420.1	427.4	437.1	442.0	449.5	464.4
160°	423.7	419.9	416.2	419.9	423.7	424.6	430.4	438.1	442.0	448.4	461.2
162.5°	428.7	425.9	423.1	425.9	428.7	429.4	433.6	439.2	442.0	447.4	458.2
165°	435.7	433.1	430.6	433.1	435.7	436.3	438.2	440.7	442.0	445.9	453.6
167.5°	439.9	438.7	437.5	438.7	439.9	440.2	441.8	443.9	445.0	447.5	452.6
170°	444.4	443.2	442.0	443.2	444.4	444.7	444.8	444.9	445.0	447.5	452.6
172.5°	444.9	444.7	444.4	444.7	444.9	445.0	445.0	445.0	445.0	447.0	451.0
175°	447.7	447.7	447.7	447.7	447.7	447.7	446.8	445.6	445.0	446.3	448.8
177.5°	447.7	447.7	447.7	447.7	447.7	447.7	447.0	446.1	445.6	446.6	448.6
180°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7



TEST NUMBER: P933813

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2052.2	2046.2	2054.2	2032.1	2054.2	2046.2	2052.2	2066.3	2054.2	2062.3	2070.3
5°	1800.7	1790.6	1758.5	1732.3	1758.5	1790.6	1800.7	1843.0	1863.1	1899.3	1947.6
7.5°	1609.6	1601.5	1593.5	1577.4	1593.5	1601.5	1609.6	1621.6	1641.8	1673.9	1710.2
10°	1567.3	1569.3	1581.4	1579.4	1581.4	1569.3	1567.3	1563.3	1557.3	1563.3	1585.4
12.5°	1676.0	1694.1	1760.5	1756.4	1760.5	1694.1	1676.0	1595.5	1541.2	1531.1	1535.1
15°	1800.7	1806.7	1820.8	1822.8	1820.8	1806.7	1800.7	1768.5	1605.5	1535.1	1513.0
17.5°	1812.8	1814.8	1824.8	1824.8	1824.8	1814.8	1812.8	1798.7	1744.4	1649.8	1525.1
20°	1802.7	1806.7	1826.9	1830.9	1826.9	1806.7	1802.7	1784.6	1754.4	1720.2	1625.7
22.5°	1798.7	1806.7	1822.8	1820.8	1822.8	1806.7	1798.7	1770.5	1744.4	1720.2	1682.0
25°	1778.6	1778.6	1780.6	1782.6	1780.6	1778.6	1778.6	1756.4	1704.1	1698.1	1676.0
27.5°	1736.3	1740.3	1752.4	1750.4	1752.4	1740.3	1736.3	1728.3	1671.9	1665.9	1649.8
30°	1698.1	1694.1	1684.0	1676.0	1684.0	1694.1	1698.1	1686.0	1629.7	1613.6	1617.6
32.5°	1633.7	1623.6	1613.6	1607.6	1613.6	1623.6	1633.7	1629.7	1587.4	1565.3	1569.3
35°	1557.3	1559.3	1557.3	1551.2	1557.3	1559.3	1557.3	1561.3	1535.1	1515.0	1513.0
37.5°	1502.9	1507.0	1504.9	1496.9	1504.9	1507.0	1502.9	1498.9	1462.7	1456.7	1460.7
40°	1446.6	1448.6	1446.6	1440.6	1446.6	1448.6	1446.6	1438.5	1388.3	1390.3	1404.3
42.5°	1392.3	1390.3	1384.2	1380.2	1384.2	1390.3	1392.3	1380.2	1315.8	1309.8	1335.9
45°	1329.9	1331.9	1319.8	1313.8	1319.8	1331.9	1329.9	1321.9	1255.5	1239.4	1257.5
47.5°	1267.5	1267.5	1257.5	1251.4	1257.5	1267.5	1267.5	1257.5	1187.1	1171.0	1181.0
50°	1201.1	1199.1	1185.0	1183.0	1185.0	1199.1	1201.1	1195.1	1120.7	1106.6	1106.6
52.5°	1124.7	1124.7	1126.7	1130.7	1126.7	1124.7	1124.7	1126.7	1060.3	1046.2	1042.2
55°	1058.3	1060.3	1074.4	1078.4	1074.4	1060.3	1058.3	1058.3	997.9	983.8	975.8
57.5°	989.9	989.9	999.9	999.9	999.9	989.9	989.9	985.9	927.5	915.4	911.4
60°	911.4	915.4	923.5	921.5	923.5	915.4	911.4	907.4	857.1	849.0	835.0
62.5°	828.9	833.0	835.0	830.9	835.0	833.0	828.9	816.9	786.7	780.6	762.5
65°	742.4	746.4	748.4	744.4	748.4	746.4	742.4	736.4	714.2	704.2	688.1
67.5°	653.9	651.9	649.9	657.9	649.9	651.9	653.9	645.8	631.8	623.7	601.6
70°	563.3	563.3	561.3	565.4	561.3	563.3	563.3	557.3	549.3	543.2	523.1
72.5°	466.8	464.8	472.8	466.8	472.8	464.8	466.8	464.8	460.7	454.7	434.6
75°	372.2	376.2	372.2	378.2	372.2	376.2	372.2	374.2	372.2	368.2	354.1
77.5°	283.7	287.7	283.7	283.7	283.7	287.7	283.7	285.7	285.7	285.7	273.6
80°	201.2	199.2	199.2	197.2	199.2	199.2	201.2	201.2	203.2	199.2	195.2
82.5°	128.8	126.8	126.8	130.8	126.8	126.8	128.8	130.8	126.8	126.8	126.8
85°	70.4	72.4	68.4	68.4	68.4	72.4	70.4	66.4	70.4	70.4	68.4
87.5°	26.2	24.1	24.1	24.1	24.1	24.1	26.2	28.2	28.2	28.2	30.2
90°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.8	19.6
92.5°	57.1	54.8	45.8	36.7	45.8	54.8	57.1	80.9	112.7	128.6	112.9
95°	193.8	186.9	159.4	131.9	159.4	186.9	193.8	254.5	335.4	375.9	317.5
97.5°	447.4	434.3	382.0	329.6	382.0	434.3	447.4	485.8	536.9	562.5	465.1
100°	628.3	612.7	550.4	488.0	550.4	612.7	628.3	625.5	621.8	619.9	511.8
102.5°	782.7	769.3	715.9	662.5	715.9	769.3	782.7	733.8	668.7	636.1	526.5
105°	963.0	955.8	927.1	898.4	927.1	955.8	963.0	853.4	707.3	634.3	528.1
107.5°	1056.8	1058.5	1065.5	1072.4	1065.5	1058.5	1056.8	903.9	700.1	598.2	504.6
110°	1080.8	1088.3	1118.2	1148.1	1118.2	1088.3	1080.8	909.9	682.1	568.2	483.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1065.5	1077.0	1122.9	1168.8	1122.9	1077.0	1065.5	890.6	657.5	540.9	465.6
115°	1013.5	1029.4	1093.1	1156.8	1093.1	1029.4	1013.5	845.0	620.4	508.1	444.7
117.5°	941.7	959.4	1030.0	1100.6	1030.0	959.4	941.7	789.7	587.0	485.6	431.7
120°	893.3	910.5	979.1	1047.7	979.1	910.5	893.3	754.4	569.1	476.5	427.2
122.5°	844.9	861.8	929.6	997.3	929.6	861.8	844.9	719.8	553.0	469.6	424.9
125°	780.9	796.5	858.8	921.2	858.8	796.5	780.9	674.6	532.9	462.1	423.1
127.5°	729.5	742.7	795.3	847.9	795.3	742.7	729.5	638.3	516.6	455.8	422.0
130°	697.1	709.3	757.9	806.5	757.9	709.3	697.1	615.9	507.6	453.4	422.6
132.5°	669.5	680.4	723.9	767.4	723.9	680.4	669.5	596.8	499.8	451.3	423.1
135°	630.4	639.8	677.3	714.8	677.3	639.8	630.4	569.5	488.3	447.7	422.7
137.5°	601.5	609.2	639.9	670.7	639.9	609.2	601.5	550.0	481.4	447.1	425.3
140°	578.4	585.6	614.3	643.0	614.3	585.6	578.4	533.9	474.6	445.0	425.7
142.5°	562.2	568.4	593.1	617.8	593.1	568.4	562.2	523.1	471.0	445.0	427.2
145°	537.8	542.5	561.2	579.9	561.2	542.5	537.8	505.9	463.3	442.0	427.2
147.5°	517.4	521.3	536.8	552.3	536.8	521.3	517.4	492.3	458.8	442.0	430.2
150°	505.7	508.8	521.4	533.9	521.4	508.8	505.7	484.5	456.2	442.0	431.7
152.5°	496.4	498.8	508.2	517.7	508.2	498.8	496.4	478.3	454.1	442.0	432.7
155°	485.3	486.9	493.1	499.4	493.1	486.9	485.3	470.9	451.6	442.0	434.9
157.5°	475.6	476.7	481.2	485.6	481.2	476.7	475.6	464.4	449.5	442.0	437.1
160°	470.8	471.4	474.0	476.5	474.0	471.4	470.8	461.2	448.4	442.0	438.1
162.5°	466.3	466.9	469.3	471.7	469.3	466.9	466.3	458.2	447.4	442.0	439.2
165°	459.4	460.0	462.6	465.1	462.6	460.0	459.4	453.6	445.9	442.0	440.7
167.5°	456.4	456.7	457.7	458.8	457.7	456.7	456.4	452.6	447.5	445.0	443.9
170°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	452.6	447.5	445.0	444.9
172.5°	454.0	453.8	452.8	451.9	452.8	453.8	454.0	451.0	447.0	445.0	445.0
175°	450.7	450.7	450.7	450.7	450.7	450.7	450.7	448.8	446.3	445.0	445.6
177.5°	450.1	449.8	448.8	447.7	448.8	449.8	450.1	448.6	446.6	445.6	446.1
180°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2100.5	2110.5	2116.6	2124.6	2144.7
5°	2020.0	2058.2	2070.3	2100.5	2136.7
7.5°	1843.0	1959.6	1991.8	2064.3	2120.6
10°	1671.9	1788.6	1845.0	2016.0	2100.5
12.5°	1585.4	1653.8	1692.1	1931.5	2072.3
15°	1531.1	1579.4	1607.6	1818.8	2040.1
17.5°	1488.8	1523.1	1543.2	1708.2	1995.9
20°	1462.7	1478.8	1496.9	1627.7	1945.6
22.5°	1444.6	1434.5	1448.6	1571.3	1877.2
25°	1432.5	1394.3	1410.4	1527.1	1796.7
27.5°	1442.6	1358.1	1364.1	1486.8	1712.2
30°	1444.6	1313.8	1315.8	1444.6	1617.6
32.5°	1430.5	1267.5	1269.5	1392.3	1511.0
35°	1396.3	1213.2	1211.2	1331.9	1366.1
37.5°	1350.0	1154.9	1154.9	1265.5	1207.2
40°	1293.7	1096.5	1102.6	1179.0	1066.3
42.5°	1225.3	1034.1	1042.2	1064.3	961.7
45°	1150.8	973.8	979.8	899.3	881.2
47.5°	1068.3	911.4	913.4	746.4	855.1
50°	969.8	847.0	839.0	639.8	853.1
52.5°	883.2	776.6	752.5	579.4	774.6
55°	798.7	702.2	649.9	533.2	718.3
57.5°	724.3	605.6	555.3	478.8	706.2
60°	655.9	511.0	472.8	420.5	647.9
62.5°	599.6	440.6	432.6	380.3	587.5
65°	539.2	392.3	390.3	346.1	499.0
67.5°	480.9	360.1	358.1	313.9	380.3
70°	418.5	325.9	321.9	279.7	281.7
72.5°	354.1	287.7	283.7	251.5	233.4
75°	289.7	243.4	241.4	219.3	189.1
77.5°	227.4	193.1	197.2	177.1	138.8
80°	163.0	140.8	144.9	126.8	104.6
82.5°	108.6	92.6	96.6	80.5	70.4
85°	60.4	52.3	54.3	42.3	32.2
87.5°	28.2	24.1	24.1	16.1	10.1
90°	13.2	8.4	7.8	5.4	3.0
92.5°	81.5	58.0	52.9	32.4	12.0
95°	200.6	113.0	103.6	66.2	28.8
97.5°	270.2	124.1	115.9	82.9	49.9
100°	295.6	133.4	125.9	96.0	66.1
102.5°	307.2	142.7	135.7	107.8	79.9
105°	315.8	156.5	150.6	127.0	103.4
107.5°	317.4	177.0	171.5	149.4	127.4
110°	315.0	188.4	183.4	163.5	143.6



TEST NUMBER: P933813

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	315.1	202.2	197.5	178.5	159.6
115°	318.0	223.0	218.6	201.1	183.6
117.5°	323.9	243.1	239.1	223.2	207.3
120°	328.7	254.8	251.1	236.1	221.1
122.5°	335.6	268.6	264.8	249.8	234.7
125°	345.0	286.4	283.0	269.2	255.4
127.5°	354.3	303.5	300.0	286.1	272.2
130°	361.1	314.9	311.2	296.2	281.2
132.5°	366.6	324.2	320.5	305.5	290.6
135°	372.6	335.0	331.6	318.0	304.4
137.5°	381.6	348.8	345.4	332.0	318.5
140°	387.1	358.2	355.1	342.6	330.2
142.5°	391.7	365.1	362.2	350.7	339.2
145°	397.7	375.6	373.1	363.1	353.1
147.5°	406.5	388.8	386.4	376.6	366.9
150°	411.1	395.7	393.5	384.7	375.9
152.5°	414.1	400.2	398.5	391.9	385.2
155°	420.7	410.1	408.9	403.9	399.0
157.5°	427.4	420.1	418.9	414.0	409.2
160°	430.4	424.6	423.7	419.9	416.2
162.5°	433.6	429.4	428.7	425.9	423.1
165°	438.2	436.3	435.7	433.1	430.6
167.5°	441.8	440.2	439.9	438.7	437.5
170°	444.8	444.7	444.4	443.2	442.0
172.5°	445.0	445.0	444.9	444.7	444.4
175°	446.8	447.7	447.7	447.7	447.7
177.5°	447.0	447.7	447.7	447.7	447.7
180°	447.7	447.7	447.7	447.7	447.7



TEST NUMBER: P933813  
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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	12.68	13.70	13.49	14.53	15.56	15.53	16.55	16.34	17.38	18.41
	3H	13.17	14.08	13.99	14.93	15.99	16.89	17.81	17.72	18.65	19.71
	4H	13.37	14.23	14.21	15.08	16.15	17.35	18.21	18.19	19.07	20.14
	6H	13.49	14.29	14.35	15.15	16.23	17.65	18.45	18.50	19.30	20.39
	8H	13.50	14.26	14.36	15.13	16.22	17.73	18.49	18.59	19.37	20.45
	12H	13.47	14.20	14.34	15.07	16.18	17.78	18.50	18.65	19.37	20.48
4H	2H	13.73	14.60	14.58	15.45	16.52	15.96	16.82	16.80	17.67	18.74
	3H	14.78	15.50	15.63	16.38	17.47	17.48	18.20	18.34	19.09	20.17
	4H	15.06	15.72	15.93	16.60	17.71	18.02	18.68	18.89	19.56	20.67
	6H	15.19	15.76	16.08	16.67	17.78	18.40	18.97	19.29	19.87	20.99
	8H	15.20	15.73	16.09	16.63	17.76	18.52	19.05	19.41	19.95	21.07
	12H	15.18	15.65	16.09	16.57	17.71	18.58	19.06	19.49	19.98	21.11
8H	4H	15.53	16.06	16.42	16.96	18.09	18.16	18.69	19.05	19.59	20.72
	6H	15.80	16.24	16.71	17.18	18.31	18.61	19.05	19.52	19.99	21.12
	8H	15.84	16.23	16.77	17.16	18.31	18.77	19.15	19.69	20.09	21.23
	12H	15.83	16.18	16.76	17.10	18.30	18.88	19.22	19.80	20.14	21.34
12H	4H	15.54	16.02	16.45	16.94	18.07	18.13	18.61	19.04	19.53	20.66
	6H	15.86	16.25	16.79	17.18	18.33	18.61	19.00	19.53	19.93	21.08
	8H	15.94	16.28	16.86	17.20	18.40	18.78	19.12	19.71	20.05	21.24