

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: P934971

Luminaire Tested: SQ4-FA-075U-125D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934971
REPORT IS A COMBINATION OF REPORTS P933719 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

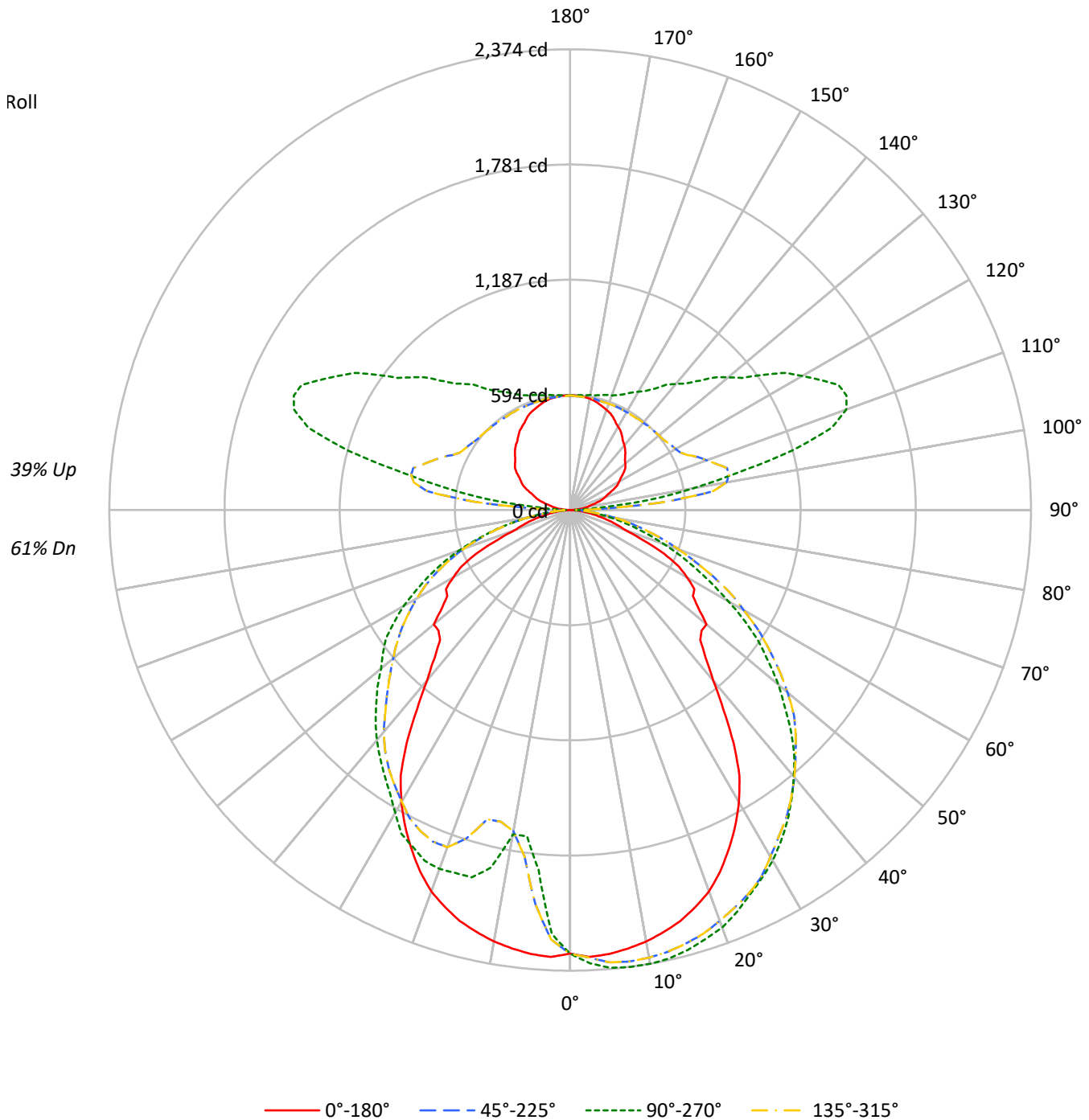
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9755.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 93
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14140	14140	14140	14140
5°	14241	14274	14241	11223
10°	14140	14060	14140	10052
15°	13981	13756	13981	11486
20°	13683	13395	13683	11510
25°	13079	12868	13079	11266
30°	12301	12431	12301	10731
35°	10961	11879	10961	10142
40°	9128	11228	9128	9697
45°	8151	10466	8151	9186
50°	8652	9558	8652	8673
55°	8133	8579	8133	8376
60°	8373	7287	8373	7672
65°	7579	6023	7579	6733
70°	5235	4800	5235	5643
75°	4575	3548	4575	4250
80°	3662	2346	3662	2554
85°	2063	1242	2063	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12500 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	2.1
10°-20°	585.8	6.0
20°-30°	905.6	9.3
30°-40°	1081.1	11.1
40°-50°	1087.4	11.1
50°-60°	946.2	9.7
60°-70°	670.8	6.9
70°-80°	354.9	3.6
80°-90°	90.6	0.9
90°-100°	287.7	2.9
100°-110°	756.5	7.8
110°-120°	784.4	8.0
120°-130°	629.2	6.4
130°-140°	493.7	5.1
140°-150°	378.9	3.9
150°-160°	272.9	2.8
160°-170°	167.0	1.7
170°-180°	56.4	0.6
0°-30°	1697.7	17.4
0°-40°	2778.8	28.5
0°-60°	4812.3	49.3
0°-90°	5928.8	60.8
90°-120°	1828.6	18.7
90°-150°	3330.4	34.1
90°-180°	3827.0	39.2
0°-180°	9755.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2286	2286	2286	2286	2286	
5°	2297	2368	2297	1862	2297	218
15°	2193	2346	2193	1959	2193	617
25°	1931	2188	1931	1916	1931	887
35°	1468	1953	1468	1667	1468	908
45°	947	1609	947	1412	947	759
55°	772	1187	772	1159	772	709
65°	536	716	536	800	536	513
75°	203	340	203	407	203	214
85°	35	86	35	74	35	47
90°	4	15	4	15	4	5
95°	38	174	38	174	38	42
105°	136	1184	136	1184	136	145
115°	242	1525	242	1525	242	239
125°	337	1215	337	1215	337	299
135°	401	942	401	942	401	311
145°	466	765	466	765	466	292
155°	526	658	526	658	526	242
165°	568	613	568	613	568	160
175°	590	594	590	594	590	56
180°	590	590	590	590	590	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2305.2	2305.2	2318.2	2322.5	2322.5	2316.0	2309.5	2316.0	2335.5	2342.0	2339.8
5°	2296.6	2313.9	2337.6	2342.0	2346.3	2344.1	2339.8	2344.1	2365.7	2370.1	2372.2
7.5°	2279.3	2311.6	2342.0	2348.5	2354.9	2348.5	2346.3	2350.6	2372.2	2376.6	2376.6
10°	2257.6	2303.0	2337.6	2342.0	2348.5	2342.0	2342.0	2350.6	2372.2	2376.6	2378.7
12.5°	2227.4	2290.1	2322.5	2326.8	2335.5	2333.3	2331.2	2339.8	2361.4	2365.7	2365.7
15°	2192.8	2266.2	2296.6	2300.9	2316.0	2311.6	2311.6	2320.3	2344.1	2350.6	2348.5
17.5°	2145.2	2236.0	2270.6	2277.1	2287.9	2285.7	2287.9	2296.6	2318.2	2322.5	2324.7
20°	2091.1	2194.9	2236.0	2242.5	2253.3	2253.3	2253.3	2264.1	2285.7	2294.4	2294.4
22.5°	2017.6	2151.6	2194.9	2199.3	2212.2	2212.2	2216.6	2231.6	2251.2	2253.3	2253.3
25°	1931.1	2104.1	2140.8	2153.9	2166.8	2173.3	2179.8	2188.4	2194.9	2192.8	2194.9
27.5°	1840.2	2043.5	2091.1	2099.8	2117.0	2123.5	2132.2	2134.3	2136.6	2143.0	2138.7
30°	1738.6	1959.2	2030.6	2039.2	2067.3	2071.6	2063.0	2067.3	2078.1	2082.5	2086.8
32.5°	1624.0	1833.8	1967.9	1987.3	2013.3	2000.3	1998.1	2004.6	2021.9	2021.9	2026.2
35°	1468.3	1736.5	1909.5	1926.8	1946.2	1931.1	1939.7	1941.9	1952.7	1959.2	1957.0
37.5°	1297.5	1652.1	1848.9	1861.9	1877.0	1857.5	1870.6	1877.0	1885.6	1881.4	1881.4
40°	1146.1	1520.2	1777.5	1786.2	1799.2	1784.0	1797.0	1801.4	1805.6	1801.4	1799.2
42.5°	1033.6	1375.3	1701.9	1712.7	1704.0	1714.8	1719.2	1727.9	1721.3	1712.7	1712.7
45°	947.2	1336.4	1619.7	1632.7	1619.7	1637.0	1643.5	1643.5	1624.0	1619.7	1617.5
47.5°	919.1	1258.6	1537.5	1537.5	1531.0	1552.7	1563.5	1548.3	1528.8	1522.4	1522.4
50°	916.9	1172.1	1425.1	1416.4	1446.7	1472.7	1461.9	1446.7	1431.5	1407.8	1407.8
52.5°	832.6	1066.1	1280.2	1312.6	1360.2	1375.3	1358.0	1342.9	1316.9	1306.1	1297.5
55°	772.0	955.8	1148.2	1213.2	1262.9	1282.3	1249.9	1234.8	1195.9	1189.4	1185.0
57.5°	759.0	795.8	1027.2	1109.4	1169.9	1167.8	1148.2	1120.1	1087.7	1081.3	1079.1
60°	696.3	575.2	897.4	994.7	1057.4	1050.9	1033.6	1007.7	977.4	973.2	968.8
62.5°	631.4	417.4	750.4	860.7	949.3	947.2	932.0	893.1	871.5	860.7	852.0
65°	536.3	350.3	534.1	715.8	843.4	847.7	815.3	787.2	763.4	750.4	748.2
67.5°	408.7	285.4	361.2	596.8	741.8	737.4	696.3	683.3	653.1	646.6	633.6
70°	302.7	190.3	250.8	484.4	642.2	631.4	599.0	583.9	555.8	540.6	532.0
72.5°	250.8	153.5	183.8	376.2	540.6	527.6	499.5	482.2	458.5	445.5	436.8
75°	203.3	162.2	140.6	278.9	439.0	430.3	404.4	387.1	367.6	350.3	352.5
77.5°	149.2	151.4	112.5	205.4	348.1	335.2	320.0	298.5	289.8	272.5	272.5
80°	112.5	118.9	84.3	140.6	250.8	250.8	237.9	222.7	207.6	198.9	198.9
82.5°	75.7	75.7	62.7	88.7	170.8	164.4	155.7	151.4	142.7	138.4	138.4
85°	34.6	43.3	38.9	54.1	93.0	97.3	97.3	93.0	90.8	86.5	88.7
87.5°	10.8	19.4	23.8	30.2	47.5	49.8	51.9	51.9	51.9	54.1	54.1
90°	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1	15.1	15.1
92.5°	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7	75.2	72.2
95°	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5	255.5	246.5
97.5°	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5	589.9	572.6
100°	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7	828.4	807.9
102.5°	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6	1032.0	1014.4
105°	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2	1269.7	1260.3
107.5°	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9	1393.4	1395.7
110°	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8	1425.1	1434.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2	1404.8	1419.9
115°	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2	1336.3	1357.2
117.5°	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1	1241.6	1264.9
120°	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6	1177.8	1200.5
122.5°	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0	1114.0	1136.3
125°	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6	1029.6	1050.2
127.5°	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6	961.9	979.3
130°	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0	919.1	935.2
132.5°	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8	882.7	897.0
135°	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9	831.1	843.5
137.5°	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2	793.1	803.3
140°	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0	762.6	772.1
142.5°	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7	741.2	749.4
145°	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0	709.1	715.3
147.5°	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1	682.2	687.3
150°	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7	666.8	670.9
152.5°	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6	654.5	657.7
155°	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9	639.9	641.9
157.5°	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3	627.2	628.6
160°	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1	620.8	621.6
162.5°	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2	614.9	615.7
165°	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1	605.8	606.6
167.5°	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7	601.8	602.1
170°	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7	601.8	601.8
172.5°	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6	598.6	598.3
175°	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7	594.3	594.3
177.5°	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5	593.5	593.2
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2344.1	2337.6	2344.1	2339.8	2342.0	2335.5	2316.0	2309.5	2316.0	2322.5	2322.5
5°	2372.2	2367.9	2372.2	2372.2	2370.1	2365.7	2344.1	2339.8	2344.1	2346.3	2342.0
7.5°	2380.9	2374.4	2380.9	2376.6	2376.6	2372.2	2350.6	2346.3	2348.5	2354.9	2348.5
10°	2380.9	2374.4	2380.9	2378.7	2376.6	2372.2	2350.6	2342.0	2342.0	2348.5	2342.0
12.5°	2370.1	2365.7	2370.1	2365.7	2365.7	2361.4	2339.8	2331.2	2333.3	2335.5	2326.8
15°	2352.8	2346.3	2352.8	2348.5	2350.6	2344.1	2320.3	2311.6	2311.6	2316.0	2300.9
17.5°	2326.8	2318.2	2326.8	2324.7	2322.5	2318.2	2296.6	2287.9	2285.7	2287.9	2277.1
20°	2296.6	2290.1	2296.6	2294.4	2294.4	2285.7	2264.1	2253.3	2253.3	2253.3	2242.5
22.5°	2248.9	2242.5	2248.9	2253.3	2253.3	2251.2	2231.6	2216.6	2212.2	2212.2	2199.3
25°	2194.9	2188.4	2194.9	2194.9	2192.8	2194.9	2188.4	2179.8	2173.3	2166.8	2153.9
27.5°	2143.0	2138.7	2143.0	2138.7	2143.0	2136.6	2134.3	2132.2	2123.5	2117.0	2099.8
30°	2091.1	2086.8	2091.1	2086.8	2082.5	2078.1	2067.3	2063.0	2071.6	2067.3	2039.2
32.5°	2026.2	2021.9	2026.2	2026.2	2021.9	2021.9	2004.6	1998.1	2000.3	2013.3	1987.3
35°	1959.2	1952.7	1959.2	1957.0	1959.2	1952.7	1941.9	1939.7	1931.1	1946.2	1926.8
37.5°	1881.4	1874.8	1881.4	1881.4	1881.4	1885.6	1877.0	1870.6	1857.5	1877.0	1861.9
40°	1801.4	1792.7	1801.4	1799.2	1801.4	1805.6	1801.4	1797.0	1784.0	1799.2	1786.2
42.5°	1710.6	1708.3	1710.6	1712.7	1712.7	1721.3	1727.9	1719.2	1714.8	1704.0	1712.7
45°	1613.2	1608.9	1613.2	1617.5	1619.7	1624.0	1643.5	1643.5	1637.0	1619.7	1632.7
47.5°	1509.4	1498.6	1509.4	1522.4	1522.4	1528.8	1548.3	1563.5	1552.7	1531.0	1537.5
50°	1399.2	1401.3	1399.2	1407.8	1407.8	1431.5	1446.7	1461.9	1472.7	1446.7	1416.4
52.5°	1291.0	1288.8	1291.0	1297.5	1306.1	1316.9	1342.9	1358.0	1375.3	1360.2	1312.6
55°	1182.8	1187.2	1182.8	1185.0	1189.4	1195.9	1234.8	1249.9	1282.3	1262.9	1213.2
57.5°	1074.7	1068.2	1074.7	1079.1	1081.3	1087.7	1120.1	1148.2	1167.8	1169.9	1109.4
60°	949.3	940.7	949.3	968.8	973.2	977.4	1007.7	1033.6	1050.9	1057.4	994.7
62.5°	839.0	823.9	839.0	852.0	860.7	871.5	893.1	932.0	947.2	949.3	860.7
65°	722.2	715.8	722.2	748.2	750.4	763.4	787.2	815.3	847.7	843.4	715.8
67.5°	616.3	616.3	616.3	633.6	646.6	653.1	683.3	696.3	737.4	741.8	596.8
70°	519.0	516.8	519.0	532.0	540.6	555.8	583.9	599.0	631.4	642.2	484.4
72.5°	426.0	423.9	426.0	436.8	445.5	458.5	482.2	499.5	527.6	540.6	376.2
75°	343.9	339.5	343.9	352.5	350.3	367.6	387.1	404.4	430.3	439.0	278.9
77.5°	263.9	263.9	263.9	272.5	272.5	289.8	298.5	320.0	335.2	348.1	205.4
80°	196.8	194.6	196.8	198.9	198.9	207.6	222.7	237.9	250.8	250.8	140.6
82.5°	138.4	134.1	138.4	138.4	138.4	142.7	151.4	155.7	164.4	170.8	88.7
85°	86.5	86.5	86.5	88.7	86.5	90.8	93.0	97.3	97.3	93.0	54.1
87.5°	56.2	54.1	56.2	54.1	54.1	51.9	51.9	51.9	49.8	47.5	30.2
90°	15.1	15.1	15.1	15.1	15.1	20.1	26.8	30.1	25.8	17.4	11.1
92.5°	60.2	48.3	60.2	72.2	75.2	106.7	148.6	169.5	148.8	107.4	76.4
95°	210.2	173.9	210.2	246.5	255.5	335.5	442.3	495.6	418.6	264.5	148.9
97.5°	503.6	434.6	503.6	572.6	589.9	640.5	707.9	741.7	613.2	356.3	163.6
100°	725.6	643.3	725.6	807.9	828.4	824.7	819.8	817.3	674.8	389.7	175.9
102.5°	944.0	873.6	944.0	1014.4	1032.0	967.6	881.6	838.7	694.1	405.0	188.2
105°	1222.4	1184.5	1222.4	1260.3	1269.7	1125.2	932.6	836.3	696.3	416.4	206.4
107.5°	1404.8	1413.9	1404.8	1395.7	1393.4	1191.9	923.1	788.8	665.3	418.5	233.4
110°	1474.3	1513.7	1474.3	1434.9	1425.1	1199.8	899.4	749.2	637.9	415.3	248.4



TEST NUMBER: P934971

CATALOG NUMBER: SQ4-FA-075U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1480.5	1541.1	1480.5	1419.9	1404.8	1174.2	866.8	713.1	613.9	415.4	266.6
115°	1441.2	1525.3	1441.2	1357.2	1336.3	1114.2	818.0	669.9	586.3	419.3	293.9
117.5°	1358.0	1451.1	1358.0	1264.9	1241.6	1041.1	773.9	640.2	569.1	427.1	320.5
120°	1291.0	1381.4	1291.0	1200.5	1177.8	994.6	750.4	628.4	563.3	433.4	335.9
122.5°	1225.6	1314.9	1225.6	1136.3	1114.0	949.0	729.1	619.2	560.4	442.5	354.2
125°	1132.5	1214.7	1132.5	1050.2	1029.6	889.6	702.7	609.4	557.8	454.8	377.5
127.5°	1048.6	1118.0	1048.6	979.3	961.9	841.6	681.2	601.0	556.4	467.1	400.1
130°	999.2	1063.3	999.2	935.2	919.1	812.0	669.2	597.8	557.3	476.1	415.2
132.5°	954.4	1011.8	954.4	897.0	882.7	786.8	658.9	595.0	557.8	483.3	427.4
135°	893.0	942.5	893.0	843.5	831.1	750.9	643.8	590.3	557.3	491.3	441.8
137.5°	843.7	884.3	843.7	803.3	793.1	725.2	634.7	589.5	560.7	503.1	459.9
140°	810.0	847.8	810.0	772.1	762.6	704.0	625.8	586.7	561.3	510.4	472.3
142.5°	782.0	814.5	782.0	749.4	741.2	689.7	621.0	586.7	563.3	516.5	481.4
145°	740.0	764.6	740.0	715.3	709.1	667.0	610.9	582.8	563.3	524.4	495.2
147.5°	707.7	728.1	707.7	687.3	682.2	649.1	604.8	582.8	567.2	536.0	512.6
150°	687.5	704.0	687.5	670.9	666.8	638.7	601.4	582.8	569.2	542.1	521.8
152.5°	670.1	682.6	670.1	657.7	654.5	630.6	598.7	582.8	570.5	546.0	527.7
155°	650.2	658.4	650.2	641.9	639.9	620.9	595.5	582.8	573.4	554.7	540.8
157.5°	634.4	640.2	634.4	628.6	627.2	612.3	592.7	582.8	576.4	563.5	553.9
160°	624.9	628.4	624.9	621.6	620.8	608.1	591.2	582.8	577.7	567.4	559.8
162.5°	618.8	622.0	618.8	615.7	614.9	604.2	589.9	582.8	579.1	571.7	566.2
165°	609.9	613.3	609.9	606.6	605.8	598.1	587.9	582.8	581.1	577.7	575.3
167.5°	603.6	604.9	603.6	602.1	601.8	596.7	590.0	586.7	585.3	582.5	580.4
170°	601.8	601.8	601.8	601.8	601.8	596.7	590.0	586.7	586.6	586.4	586.3
172.5°	597.1	595.8	597.1	598.3	598.6	594.6	589.3	586.7	586.7	586.7	586.7
175°	594.3	594.3	594.3	594.3	594.3	591.7	588.4	586.7	587.5	589.1	590.3
177.5°	591.7	590.3	591.7	593.2	593.5	591.5	588.9	587.5	588.1	589.3	590.3
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934971
 CATALOG NUMBER: SQ4-FA-075U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2318.2	2305.2	2305.2	2283.6	2274.9	2268.4	2257.6	2225.2	2216.6	2207.9	2220.8
5°	2337.6	2313.9	2296.6	2257.6	2225.2	2212.2	2171.2	2093.3	2041.4	2002.5	1980.8
7.5°	2342.0	2311.6	2279.3	2218.7	2140.8	2106.2	1980.8	1838.1	1799.2	1764.6	1742.9
10°	2337.6	2303.0	2257.6	2166.8	1983.0	1922.5	1797.0	1704.0	1680.2	1673.8	1680.2
12.5°	2322.5	2290.1	2227.4	2076.0	1818.7	1777.5	1704.0	1650.0	1645.6	1656.5	1714.8
15°	2296.6	2266.2	2192.8	1954.9	1727.9	1697.5	1645.6	1626.2	1650.0	1725.6	1900.8
17.5°	2270.6	2236.0	2145.2	1836.0	1658.6	1637.0	1600.2	1639.2	1773.3	1874.8	1933.3
20°	2236.0	2194.9	2091.1	1749.4	1608.9	1589.4	1572.1	1747.3	1848.9	1885.6	1918.1
22.5°	2194.9	2151.6	2017.6	1688.9	1556.9	1541.9	1552.7	1807.9	1848.9	1874.8	1902.9
25°	2140.8	2104.1	1931.1	1641.3	1515.9	1498.6	1539.6	1801.4	1825.2	1831.6	1887.9
27.5°	2091.1	2043.5	1840.2	1598.1	1466.1	1459.6	1550.5	1773.3	1790.6	1797.0	1857.5
30°	2030.6	1959.2	1738.6	1552.7	1414.2	1412.1	1552.7	1738.6	1734.3	1751.6	1812.1
32.5°	1967.9	1833.8	1624.0	1496.5	1364.6	1362.3	1537.5	1686.7	1682.4	1706.2	1751.6
35°	1909.5	1736.5	1468.3	1431.5	1301.8	1304.0	1500.8	1626.2	1628.3	1650.0	1678.1
37.5°	1848.9	1652.1	1297.5	1360.2	1241.3	1241.3	1451.0	1570.0	1565.6	1572.1	1611.0
40°	1777.5	1520.2	1146.1	1267.2	1185.0	1178.6	1390.5	1509.4	1494.2	1492.1	1546.2
42.5°	1701.9	1375.3	1033.6	1144.0	1120.1	1111.5	1316.9	1435.9	1407.8	1414.2	1483.4
45°	1619.7	1336.4	947.2	966.6	1053.2	1046.6	1236.9	1351.5	1332.1	1349.4	1420.7
47.5°	1537.5	1258.6	919.1	802.2	981.8	979.6	1148.2	1269.4	1258.6	1275.9	1351.5
50°	1425.1	1172.1	916.9	687.6	901.8	910.4	1042.3	1189.4	1189.4	1204.5	1284.5
52.5°	1280.2	1066.1	832.6	622.8	808.8	834.7	949.3	1120.1	1124.5	1139.6	1210.9
55°	1148.2	955.8	772.0	573.1	698.5	754.7	858.5	1048.8	1057.4	1072.6	1137.4
57.5°	1027.2	795.8	759.0	514.7	596.8	650.9	778.5	979.6	983.9	996.9	1059.6
60°	897.4	575.2	696.3	452.0	508.2	549.3	704.9	897.4	912.6	921.2	975.3
62.5°	750.4	417.4	631.4	408.7	464.9	473.5	644.5	819.5	839.0	845.5	878.0
65°	534.1	350.3	536.3	372.0	419.5	421.7	579.5	739.5	756.8	767.7	791.5
67.5°	361.2	285.4	408.7	337.3	384.9	387.1	516.8	646.6	670.4	679.0	694.1
70°	250.8	190.3	302.7	300.6	346.0	350.3	449.8	562.2	583.9	590.4	599.0
72.5°	183.8	153.5	250.8	270.3	304.9	309.3	380.6	467.1	488.7	495.2	499.5
75°	140.6	162.2	203.3	235.7	259.5	261.6	311.4	380.6	395.8	400.1	402.2
77.5°	112.5	151.4	149.2	190.3	211.9	207.6	244.4	294.1	307.1	307.1	307.1
80°	84.3	118.9	112.5	136.2	155.7	151.4	175.2	209.8	214.1	218.4	216.2
82.5°	62.7	75.7	75.7	86.5	103.8	99.5	116.8	136.2	136.2	136.2	140.6
85°	38.9	43.3	34.6	45.4	58.4	56.2	64.8	73.5	75.7	75.7	71.4
87.5°	23.8	19.4	10.8	17.3	26.0	26.0	30.2	32.5	30.2	30.2	30.2
90°	10.3	7.1	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1
92.5°	69.7	42.8	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7
95°	136.6	87.3	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5
97.5°	152.7	109.2	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5
100°	166.1	126.6	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7
102.5°	179.0	142.2	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6
105°	198.7	167.5	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2
107.5°	226.1	197.1	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9
110°	241.8	215.6	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8



TEST NUMBER: P934971

CATALOG NUMBER: SQ4-FA-075U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	260.4	235.3	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2
115°	288.1	265.1	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2
117.5°	315.2	294.3	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1
120°	331.0	311.3	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6
122.5°	349.2	329.3	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0
125°	373.0	354.9	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6
127.5°	395.5	377.3	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6
130°	410.2	390.6	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0
132.5°	422.5	402.8	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8
135°	437.2	419.3	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9
137.5°	455.5	437.7	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2
140°	468.2	451.7	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0
142.5°	477.6	462.5	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7
145°	491.9	478.7	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0
147.5°	509.4	496.5	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1
150°	518.9	507.2	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7
152.5°	525.5	516.7	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6
155°	539.1	532.6	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9
157.5°	552.3	546.0	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3
160°	558.6	553.6	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1
162.5°	565.2	561.6	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2
165°	574.4	571.1	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1
167.5°	580.0	578.4	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7
170°	585.9	584.4	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7
172.5°	586.6	586.3	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6
175°	590.3	590.3	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7
177.5°	590.3	590.3	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934971
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2205.7	2199.3	2207.9	2184.1	2207.9	2199.3	2205.7	2220.8	2207.9	2216.6	2225.2
5°	1935.4	1924.6	1890.0	1861.9	1890.0	1924.6	1935.4	1980.8	2002.5	2041.4	2093.3
7.5°	1730.0	1721.3	1712.7	1695.4	1712.7	1721.3	1730.0	1742.9	1764.6	1799.2	1838.1
10°	1684.6	1686.7	1699.7	1697.5	1699.7	1686.7	1684.6	1680.2	1673.8	1680.2	1704.0
12.5°	1801.4	1820.8	1892.2	1887.9	1892.2	1820.8	1801.4	1714.8	1656.5	1645.6	1650.0
15°	1935.4	1941.9	1957.0	1959.2	1957.0	1941.9	1935.4	1900.8	1725.6	1650.0	1626.2
17.5°	1948.4	1950.6	1961.4	1961.4	1961.4	1950.6	1948.4	1933.3	1874.8	1773.3	1639.2
20°	1937.6	1941.9	1963.5	1967.9	1963.5	1941.9	1937.6	1918.1	1885.6	1848.9	1747.3
22.5°	1933.3	1941.9	1959.2	1957.0	1959.2	1941.9	1933.3	1902.9	1874.8	1848.9	1807.9
25°	1911.6	1911.6	1913.8	1916.0	1913.8	1911.6	1911.6	1887.9	1831.6	1825.2	1801.4
27.5°	1866.2	1870.6	1883.5	1881.4	1883.5	1870.6	1866.2	1857.5	1797.0	1790.6	1773.3
30°	1825.2	1820.8	1810.0	1801.4	1810.0	1820.8	1825.2	1812.1	1751.6	1734.3	1738.6
32.5°	1756.0	1745.2	1734.3	1727.9	1734.3	1745.2	1756.0	1751.6	1706.2	1682.4	1686.7
35°	1673.8	1675.9	1673.8	1667.3	1673.8	1675.9	1673.8	1678.1	1650.0	1628.3	1626.2
37.5°	1615.4	1619.7	1617.5	1608.9	1617.5	1619.7	1615.4	1611.0	1572.1	1565.6	1570.0
40°	1554.8	1556.9	1554.8	1548.3	1554.8	1556.9	1554.8	1546.2	1492.1	1494.2	1509.4
42.5°	1496.5	1494.2	1487.8	1483.4	1487.8	1494.2	1496.5	1483.4	1414.2	1407.8	1435.9
45°	1429.4	1431.5	1418.6	1412.1	1418.6	1431.5	1429.4	1420.7	1349.4	1332.1	1351.5
47.5°	1362.3	1362.3	1351.5	1345.1	1351.5	1362.3	1362.3	1351.5	1275.9	1258.6	1269.4
50°	1291.0	1288.8	1273.7	1271.5	1273.7	1288.8	1291.0	1284.5	1204.5	1189.4	1189.4
52.5°	1208.8	1208.8	1210.9	1215.3	1210.9	1208.8	1208.8	1210.9	1139.6	1124.5	1120.1
55°	1137.4	1139.6	1154.8	1159.1	1154.8	1139.6	1137.4	1137.4	1072.6	1057.4	1048.8
57.5°	1064.0	1064.0	1074.7	1074.7	1074.7	1064.0	1064.0	1059.6	996.9	983.9	979.6
60°	979.6	983.9	992.6	990.4	992.6	983.9	979.6	975.3	921.2	912.6	897.4
62.5°	890.9	895.3	897.4	893.1	897.4	895.3	890.9	878.0	845.5	839.0	819.5
65°	798.0	802.2	804.5	800.1	804.5	802.2	798.0	791.5	767.7	756.8	739.5
67.5°	702.8	700.6	698.5	707.2	698.5	700.6	702.8	694.1	679.0	670.4	646.6
70°	605.5	605.5	603.3	607.6	603.3	605.5	605.5	599.0	590.4	583.9	562.2
72.5°	501.7	499.5	508.2	501.7	508.2	499.5	501.7	499.5	495.2	488.7	467.1
75°	400.1	404.4	400.1	406.6	400.1	404.4	400.1	402.2	400.1	395.8	380.6
77.5°	304.9	309.3	304.9	304.9	304.9	309.3	304.9	307.1	307.1	307.1	294.1
80°	216.2	214.1	214.1	211.9	214.1	214.1	216.2	216.2	218.4	214.1	209.8
82.5°	138.4	136.2	136.2	140.6	136.2	136.2	138.4	140.6	136.2	136.2	136.2
85°	75.7	77.9	73.5	73.5	73.5	77.9	75.7	71.4	75.7	75.7	73.5
87.5°	28.1	26.0	26.0	26.0	26.0	26.0	28.1	30.2	30.2	30.2	32.5
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.1	26.8	30.1	25.8
92.5°	75.2	72.2	60.2	48.3	60.2	72.2	75.2	106.7	148.6	169.5	148.8
95°	255.5	246.5	210.2	173.9	210.2	246.5	255.5	335.5	442.3	495.6	418.6
97.5°	589.9	572.6	503.6	434.6	503.6	572.6	589.9	640.5	707.9	741.7	613.2
100°	828.4	807.9	725.6	643.3	725.6	807.9	828.4	824.7	819.8	817.3	674.8
102.5°	1032.0	1014.4	944.0	873.6	944.0	1014.4	1032.0	967.6	881.6	838.7	694.1
105°	1269.7	1260.3	1222.4	1184.5	1222.4	1260.3	1269.7	1125.2	932.6	836.3	696.3
107.5°	1393.4	1395.7	1404.8	1413.9	1404.8	1395.7	1393.4	1191.9	923.1	788.8	665.3
110°	1425.1	1434.9	1474.3	1513.7	1474.3	1434.9	1425.1	1199.8	899.4	749.2	637.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1404.8	1419.9	1480.5	1541.1	1480.5	1419.9	1404.8	1174.2	866.8	713.1	613.9
115°	1336.3	1357.2	1441.2	1525.3	1441.2	1357.2	1336.3	1114.2	818.0	669.9	586.3
117.5°	1241.6	1264.9	1358.0	1451.1	1358.0	1264.9	1241.6	1041.1	773.9	640.2	569.1
120°	1177.8	1200.5	1291.0	1381.4	1291.0	1200.5	1177.8	994.6	750.4	628.4	563.3
122.5°	1114.0	1136.3	1225.6	1314.9	1225.6	1136.3	1114.0	949.0	729.1	619.2	560.4
125°	1029.6	1050.2	1132.5	1214.7	1132.5	1050.2	1029.6	889.6	702.7	609.4	557.8
127.5°	961.9	979.3	1048.6	1118.0	1048.6	979.3	961.9	841.6	681.2	601.0	556.4
130°	919.1	935.2	999.2	1063.3	999.2	935.2	919.1	812.0	669.2	597.8	557.3
132.5°	882.7	897.0	954.4	1011.8	954.4	897.0	882.7	786.8	658.9	595.0	557.8
135°	831.1	843.5	893.0	942.5	893.0	843.5	831.1	750.9	643.8	590.3	557.3
137.5°	793.1	803.3	843.7	884.3	843.7	803.3	793.1	725.2	634.7	589.5	560.7
140°	762.6	772.1	810.0	847.8	810.0	772.1	762.6	704.0	625.8	586.7	561.3
142.5°	741.2	749.4	782.0	814.5	782.0	749.4	741.2	689.7	621.0	586.7	563.3
145°	709.1	715.3	740.0	764.6	740.0	715.3	709.1	667.0	610.9	582.8	563.3
147.5°	682.2	687.3	707.7	728.1	707.7	687.3	682.2	649.1	604.8	582.8	567.2
150°	666.8	670.9	687.5	704.0	687.5	670.9	666.8	638.7	601.4	582.8	569.2
152.5°	654.5	657.7	670.1	682.6	670.1	657.7	654.5	630.6	598.7	582.8	570.5
155°	639.9	641.9	650.2	658.4	650.2	641.9	639.9	620.9	595.5	582.8	573.4
157.5°	627.2	628.6	634.4	640.2	634.4	628.6	627.2	612.3	592.7	582.8	576.4
160°	620.8	621.6	624.9	628.4	624.9	621.6	620.8	608.1	591.2	582.8	577.7
162.5°	614.9	615.7	618.8	622.0	618.8	615.7	614.9	604.2	589.9	582.8	579.1
165°	605.8	606.6	609.9	613.3	609.9	606.6	605.8	598.1	587.9	582.8	581.1
167.5°	601.8	602.1	603.6	604.9	603.6	602.1	601.8	596.7	590.0	586.7	585.3
170°	601.8	601.8	601.8	601.8	601.8	601.8	601.8	596.7	590.0	586.7	586.6
172.5°	598.6	598.3	597.1	595.8	597.1	598.3	598.6	594.6	589.3	586.7	586.7
175°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	591.7	588.4	586.7	587.5
177.5°	593.5	593.2	591.7	590.3	591.7	593.2	593.5	591.5	588.9	587.5	588.1
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2257.6	2268.4	2274.9	2283.6	2305.2
5°	2171.2	2212.2	2225.2	2257.6	2296.6
7.5°	1980.8	2106.2	2140.8	2218.7	2279.3
10°	1797.0	1922.5	1983.0	2166.8	2257.6
12.5°	1704.0	1777.5	1818.7	2076.0	2227.4
15°	1645.6	1697.5	1727.9	1954.9	2192.8
17.5°	1600.2	1637.0	1658.6	1836.0	2145.2
20°	1572.1	1589.4	1608.9	1749.4	2091.1
22.5°	1552.7	1541.9	1556.9	1688.9	2017.6
25°	1539.6	1498.6	1515.9	1641.3	1931.1
27.5°	1550.5	1459.6	1466.1	1598.1	1840.2
30°	1552.7	1412.1	1414.2	1552.7	1738.6
32.5°	1537.5	1362.3	1364.6	1496.5	1624.0
35°	1500.8	1304.0	1301.8	1431.5	1468.3
37.5°	1451.0	1241.3	1241.3	1360.2	1297.5
40°	1390.5	1178.6	1185.0	1267.2	1146.1
42.5°	1316.9	1111.5	1120.1	1144.0	1033.6
45°	1236.9	1046.6	1053.2	966.6	947.2
47.5°	1148.2	979.6	981.8	802.2	919.1
50°	1042.3	910.4	901.8	687.6	916.9
52.5°	949.3	834.7	808.8	622.8	832.6
55°	858.5	754.7	698.5	573.1	772.0
57.5°	778.5	650.9	596.8	514.7	759.0
60°	704.9	549.3	508.2	452.0	696.3
62.5°	644.5	473.5	464.9	408.7	631.4
65°	579.5	421.7	419.5	372.0	536.3
67.5°	516.8	387.1	384.9	337.3	408.7
70°	449.8	350.3	346.0	300.6	302.7
72.5°	380.6	309.3	304.9	270.3	250.8
75°	311.4	261.6	259.5	235.7	203.3
77.5°	244.4	207.6	211.9	190.3	149.2
80°	175.2	151.4	155.7	136.2	112.5
82.5°	116.8	99.5	103.8	86.5	75.7
85°	64.8	56.2	58.4	45.4	34.6
87.5°	30.2	26.0	26.0	17.3	10.8
90°	17.4	11.1	10.3	7.1	3.9
92.5°	107.4	76.4	69.7	42.8	15.8
95°	264.5	148.9	136.6	87.3	38.0
97.5°	356.3	163.6	152.7	109.2	65.8
100°	389.7	175.9	166.1	126.6	87.2
102.5°	405.0	188.2	179.0	142.2	105.4
105°	416.4	206.4	198.7	167.5	136.3
107.5°	418.5	233.4	226.1	197.1	168.0
110°	415.3	248.4	241.8	215.6	189.4



TEST NUMBER: P934971

CATALOG NUMBER: SQ4-FA-075U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	415.4	266.6	260.4	235.3	210.4
115°	419.3	293.9	288.1	265.1	242.1
117.5°	427.1	320.5	315.2	294.3	273.3
120°	433.4	335.9	331.0	311.3	291.6
122.5°	442.5	354.2	349.2	329.3	309.4
125°	454.8	377.5	373.0	354.9	336.7
127.5°	467.1	400.1	395.5	377.3	358.9
130°	476.1	415.2	410.2	390.6	370.8
132.5°	483.3	427.4	422.5	402.8	383.1
135°	491.3	441.8	437.2	419.3	401.3
137.5°	503.1	459.9	455.5	437.7	420.0
140°	510.4	472.3	468.2	451.7	435.4
142.5°	516.5	481.4	477.6	462.5	447.3
145°	524.4	495.2	491.9	478.7	465.5
147.5°	536.0	512.6	509.4	496.5	483.7
150°	542.1	521.8	518.9	507.2	495.6
152.5°	546.0	527.7	525.5	516.7	507.9
155°	554.7	540.8	539.1	532.6	526.1
157.5°	563.5	553.9	552.3	546.0	539.6
160°	567.4	559.8	558.6	553.6	548.7
162.5°	571.7	566.2	565.2	561.6	557.8
165°	577.7	575.3	574.4	571.1	567.7
167.5°	582.5	580.4	580.0	578.4	576.8
170°	586.4	586.3	585.9	584.4	582.8
172.5°	586.7	586.7	586.6	586.3	585.9
175°	589.1	590.3	590.3	590.3	590.3
177.5°	589.3	590.3	590.3	590.3	590.3
180°	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934971
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.95	15.91	15.80	16.79	17.90	17.77	18.74	18.63	19.62	20.73
	3H	15.43	16.30	16.30	17.19	18.32	19.12	19.99	19.99	20.88	22.01
	4H	15.63	16.45	16.51	17.34	18.49	19.57	20.39	20.46	21.28	22.43
	6H	15.75	16.51	16.65	17.41	18.57	19.86	20.61	20.76	21.52	22.67
	8H	15.76	16.47	16.66	17.40	18.55	19.94	20.65	20.84	21.58	22.73
	12H	15.73	16.41	16.64	17.33	18.51	19.98	20.66	20.89	21.58	22.76
4H	2H	15.99	16.81	16.88	17.70	18.85	18.19	19.01	19.08	19.91	21.05
	3H	17.03	17.71	17.93	18.64	19.80	19.71	20.39	20.61	21.32	22.48
	4H	17.31	17.93	18.22	18.85	20.04	20.24	20.86	21.15	21.78	22.97
	6H	17.44	17.97	18.37	18.92	20.11	20.61	21.14	21.54	22.09	23.28
	8H	17.45	17.95	18.38	18.89	20.09	20.72	21.22	21.65	22.16	23.36
	12H	17.42	17.87	18.37	18.83	20.04	20.78	21.23	21.73	22.19	23.39
8H	4H	17.77	18.27	18.70	19.21	20.41	20.37	20.87	21.30	21.81	23.01
	6H	18.03	18.45	18.99	19.43	20.63	20.81	21.22	21.77	22.21	23.41
	8H	18.08	18.44	19.04	19.42	20.64	20.96	21.33	21.93	22.30	23.52
	12H	18.07	18.39	19.04	19.36	20.62	21.06	21.39	22.03	22.35	23.62
12H	4H	17.78	18.23	18.73	19.19	20.40	20.34	20.79	21.29	21.75	22.96
	6H	18.10	18.46	19.06	19.44	20.65	20.81	21.18	21.77	22.15	23.37
	8H	18.17	18.49	19.14	19.46	20.72	20.97	21.30	21.94	22.26	23.53