

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: P934975

Luminaire Tested: SQ4-FA-075U-125D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934975
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

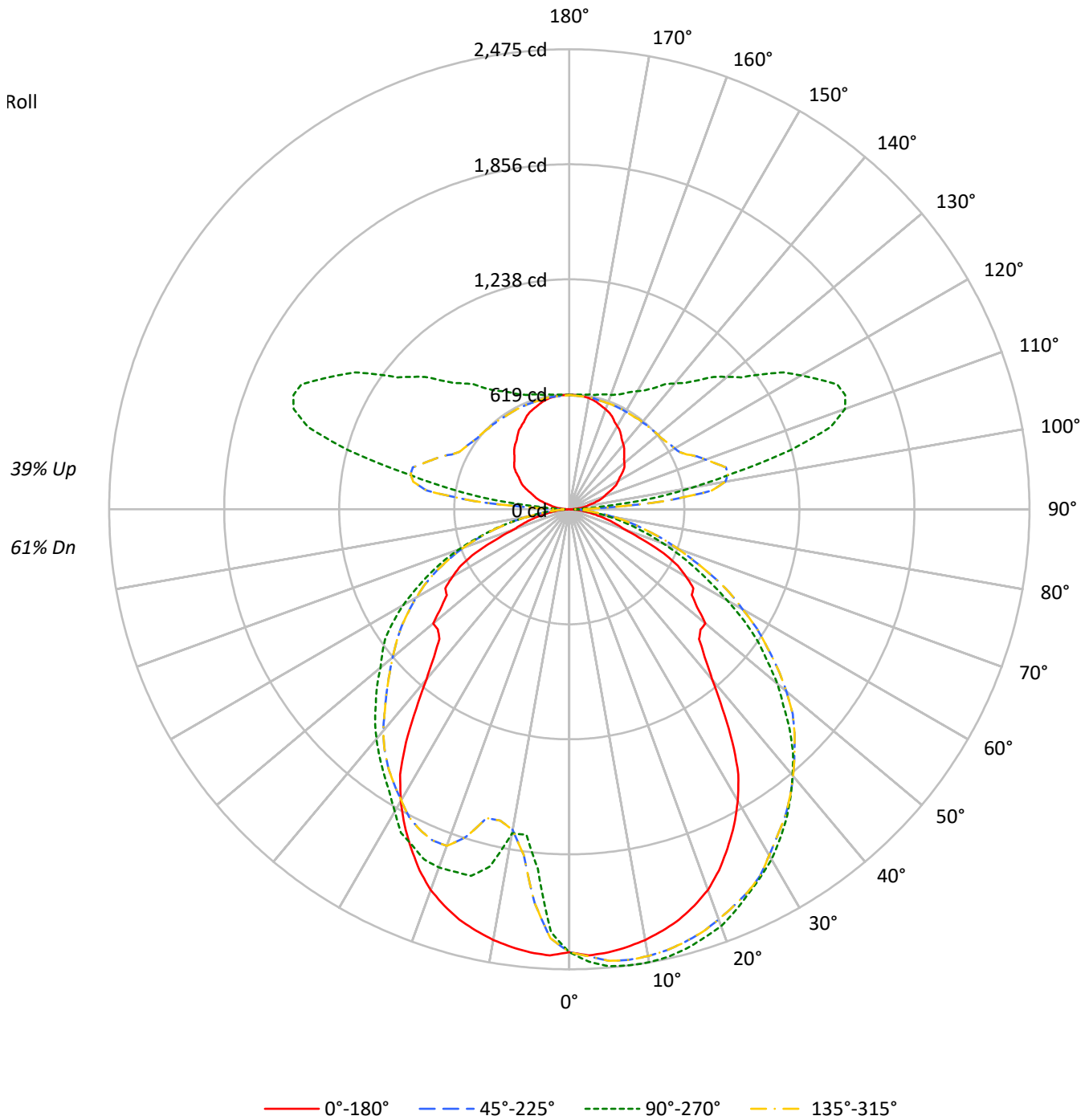
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10167.6 lumens
Efficiency: N/A
Efficacy: 109.3 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
RCR																				
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	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	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14737	14737	14737	14737
5°	14842	14876	14842	11697
10°	14737	14655	14737	10477
15°	14572	14337	14572	11972
20°	14262	13961	14262	11996
25°	13632	13412	13632	11742
30°	12821	12957	12821	11185
35°	11424	12380	11424	10571
40°	9513	11702	9513	10108
45°	8495	10909	8495	9575
50°	9018	9962	9018	9040
55°	8476	8941	8476	8730
60°	8728	7594	8728	7996
65°	7900	6278	7900	7017
70°	5457	5003	5457	5882
75°	4768	3699	4768	4429
80°	3815	2444	3815	2661
85°	2152	1294	2152	1100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13028 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	2.1
10°-20°	610.6	6.0
20°-30°	943.8	9.3
30°-40°	1126.7	11.1
40°-50°	1133.3	11.1
50°-60°	986.1	9.7
60°-70°	699.2	6.9
70°-80°	369.9	3.6
80°-90°	94.5	0.9
90°-100°	299.9	2.9
100°-110°	788.5	7.8
110°-120°	817.5	8.0
120°-130°	655.8	6.4
130°-140°	514.5	5.1
140°-150°	394.9	3.9
150°-160°	284.4	2.8
160°-170°	174.0	1.7
170°-180°	58.8	0.6
0°-30°	1769.5	17.4
0°-40°	2896.2	28.5
0°-60°	5015.7	49.3
0°-90°	6179.3	60.8
90°-120°	1905.9	18.7
90°-150°	3471.1	34.1
90°-180°	3988.0	39.2
0°-180°	10167.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2382	2382	2382	2382	2382	
5°	2394	2468	2394	1940	2394	227
15°	2285	2446	2285	2042	2285	643
25°	2013	2281	2013	1997	2013	924
35°	1530	2035	1530	1738	1530	947
45°	987	1677	987	1472	987	791
55°	805	1237	805	1208	805	739
65°	559	746	559	834	559	534
75°	212	354	212	424	212	223
85°	36	90	36	77	36	49
90°	4	16	4	16	4	5
95°	40	181	40	181	40	44
105°	142	1235	142	1235	142	151
115°	252	1590	252	1590	252	249
125°	351	1266	351	1266	351	312
135°	418	982	418	982	418	324
145°	485	797	485	797	485	304
155°	548	686	548	686	548	252
165°	592	639	592	639	592	167
175°	615	619	615	619	615	58
180°	615	615	615	615	615	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3
2.5°	2402.6	2402.6	2416.2	2420.6	2420.6	2413.9	2407.1	2413.9	2434.2	2440.9	2438.6
5°	2393.6	2411.6	2436.4	2440.9	2445.5	2443.2	2438.6	2443.2	2465.7	2470.2	2472.5
7.5°	2375.6	2409.3	2440.9	2447.7	2454.4	2447.7	2445.5	2449.9	2472.5	2477.0	2477.0
10°	2353.0	2400.4	2436.4	2440.9	2447.7	2440.9	2440.9	2449.9	2472.5	2477.0	2479.2
12.5°	2321.5	2386.9	2420.6	2425.1	2434.2	2431.9	2429.7	2438.6	2461.2	2465.7	2465.7
15°	2285.4	2362.0	2393.6	2398.1	2413.9	2409.3	2409.3	2418.4	2443.2	2449.9	2447.7
17.5°	2235.8	2330.5	2366.5	2373.3	2384.5	2382.3	2384.5	2393.6	2416.2	2420.6	2422.9
20°	2179.5	2287.7	2330.5	2337.2	2348.5	2348.5	2348.5	2359.8	2382.3	2391.3	2391.3
22.5°	2102.9	2242.6	2287.7	2292.2	2305.7	2305.7	2310.2	2325.9	2346.3	2348.5	2348.5
25°	2012.7	2193.0	2231.3	2244.9	2258.4	2265.1	2271.9	2280.9	2287.7	2285.4	2287.7
27.5°	1918.0	2129.9	2179.5	2188.5	2206.5	2213.3	2222.3	2224.5	2226.8	2233.6	2229.1
30°	1812.1	2042.0	2116.4	2125.3	2154.6	2159.2	2150.2	2154.6	2165.9	2170.4	2175.0
32.5°	1692.6	1911.2	2051.0	2071.3	2098.3	2084.8	2082.5	2089.3	2107.3	2107.3	2111.8
35°	1530.4	1809.8	1990.2	2008.2	2028.5	2012.7	2021.7	2023.9	2035.2	2042.0	2039.7
37.5°	1352.3	1721.9	1927.0	1940.5	1956.4	1936.0	1949.6	1956.4	1965.3	1960.9	1960.9
40°	1194.5	1584.5	1852.6	1861.7	1875.2	1859.4	1873.0	1877.5	1881.9	1877.5	1875.2
42.5°	1077.3	1433.4	1773.8	1785.1	1776.0	1787.3	1791.8	1800.9	1794.0	1785.1	1785.1
45°	987.2	1392.9	1688.1	1701.7	1688.1	1706.2	1713.0	1713.0	1692.6	1688.1	1685.9
47.5°	957.9	1311.8	1602.5	1602.5	1595.7	1618.3	1629.6	1613.8	1593.4	1586.7	1586.7
50°	955.7	1221.6	1485.3	1476.3	1507.8	1534.9	1523.6	1507.8	1492.0	1467.2	1467.2
52.5°	867.8	1111.2	1334.3	1368.1	1417.7	1433.4	1415.4	1399.7	1372.6	1361.3	1352.3
55°	804.6	996.2	1196.8	1264.4	1316.3	1336.5	1302.7	1287.0	1246.4	1239.6	1235.1
57.5°	791.1	829.4	1070.6	1156.3	1219.3	1217.1	1196.8	1167.5	1133.7	1127.0	1124.7
60°	725.8	599.5	935.3	1036.7	1102.1	1095.3	1077.3	1050.3	1018.7	1014.3	1009.7
62.5°	658.1	435.0	782.1	897.1	989.4	987.2	971.4	930.8	908.3	897.1	888.0
65°	559.0	365.1	556.7	746.0	879.0	883.5	849.7	820.4	795.6	782.1	779.8
67.5°	426.0	297.5	376.4	622.0	773.1	768.6	725.8	712.2	680.7	673.9	660.4
70°	315.5	198.4	261.4	504.8	669.4	658.1	624.4	608.5	579.2	563.4	554.5
72.5°	261.4	160.0	191.5	392.1	563.4	549.9	520.6	502.6	477.8	464.3	455.3
75°	211.9	169.1	146.5	290.7	457.5	448.5	421.4	403.4	383.2	365.1	367.4
77.5°	155.5	157.8	117.2	214.1	362.8	349.3	333.5	311.1	302.0	284.0	284.0
80°	117.2	124.0	87.9	146.5	261.4	261.4	247.9	232.1	216.4	207.3	207.3
82.5°	78.9	78.9	65.4	92.4	178.0	171.3	162.2	157.8	148.7	144.2	144.2
85°	36.1	45.1	40.6	56.4	96.9	101.4	101.4	96.9	94.7	90.1	92.4
87.5°	11.3	20.2	24.8	31.5	49.6	51.9	54.1	54.1	54.1	56.4	56.4
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.3	27.9	21.0	15.7	15.7
92.5°	16.5	44.6	72.6	79.7	112.0	155.1	176.7	154.9	111.2	78.4	75.3
95°	39.6	91.0	142.3	155.2	275.6	436.3	516.5	461.0	349.7	266.3	256.9
97.5°	68.6	113.8	159.1	170.5	371.4	639.1	773.0	737.8	667.6	614.9	596.8
100°	90.8	132.0	173.1	183.4	406.2	703.3	851.9	854.4	859.6	863.4	842.0
102.5°	109.8	148.2	186.6	196.2	422.2	723.5	874.1	918.9	1008.5	1075.6	1057.3
105°	142.1	174.6	207.1	215.2	434.0	725.8	871.7	972.0	1172.8	1323.4	1313.5
107.5°	175.1	205.4	235.7	243.2	436.2	693.4	822.1	962.1	1242.2	1452.2	1454.6
110°	197.4	224.8	252.0	258.9	432.8	664.8	780.8	937.4	1250.5	1485.3	1495.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	219.2	245.3	271.4	277.9	433.0	639.8	743.3	903.5	1223.8	1464.1	1479.9
115°	252.3	276.3	300.3	306.4	437.0	611.1	698.2	852.6	1161.2	1392.7	1414.6
117.5°	284.9	306.7	328.6	334.1	445.2	593.2	667.2	806.6	1085.1	1294.1	1318.3
120°	303.9	324.5	345.0	350.1	451.7	587.1	654.9	782.2	1036.7	1227.6	1251.2
122.5°	322.5	343.2	364.0	369.1	461.2	584.0	645.4	760.0	989.1	1161.1	1184.3
125°	350.9	369.9	388.8	393.5	474.0	581.4	635.1	732.4	927.2	1073.1	1094.5
127.5°	374.1	393.2	412.2	417.0	486.8	579.9	626.4	710.0	877.2	1002.6	1020.7
130°	386.5	407.1	427.6	432.7	496.2	580.8	623.1	697.5	846.4	958.0	974.7
132.5°	399.2	419.8	440.4	445.5	503.8	581.4	620.2	686.8	820.1	920.0	934.9
135°	418.2	437.0	455.7	460.4	512.0	580.8	615.2	671.0	782.6	866.2	879.1
137.5°	437.7	456.2	474.7	479.3	524.4	584.4	614.4	661.6	755.9	826.6	837.2
140°	453.8	470.8	488.0	492.2	532.0	585.0	611.5	652.2	733.8	794.8	804.7
142.5°	466.2	482.0	497.8	501.7	538.3	587.1	611.5	647.3	718.8	772.6	781.1
145°	485.2	499.0	512.6	516.1	546.6	587.1	607.4	636.7	695.2	739.1	745.5
147.5°	504.1	517.5	530.9	534.3	558.6	591.1	607.4	630.4	676.5	711.0	716.3
150°	516.5	528.6	540.8	543.8	565.0	593.3	607.4	626.8	665.7	694.9	699.3
152.5°	529.3	538.6	547.7	550.0	569.1	594.6	607.4	624.0	657.2	682.2	685.4
155°	548.3	555.1	561.9	563.6	578.2	597.6	607.4	620.6	647.1	666.9	669.0
157.5°	562.4	569.0	575.6	577.3	587.3	600.7	607.4	617.7	638.2	653.7	655.2
160°	571.9	577.0	582.2	583.4	591.4	602.1	607.4	616.2	633.8	647.0	647.9
162.5°	581.4	585.3	589.1	590.1	595.8	603.6	607.4	614.9	629.7	640.9	641.7
165°	591.7	595.2	598.7	599.6	602.2	605.6	607.4	612.7	623.4	631.4	632.3
167.5°	601.2	602.9	604.5	604.9	607.1	610.1	611.5	614.9	622.0	627.2	627.5
170°	607.4	609.1	610.7	611.1	611.2	611.4	611.5	614.9	622.0	627.2	627.2
172.5°	610.7	611.0	611.4	611.5	611.5	611.5	611.5	614.2	619.7	623.9	623.6
175°	615.2	615.2	615.2	615.2	614.0	612.3	611.5	613.3	616.7	619.4	619.4
177.5°	615.2	615.2	615.2	615.2	614.2	613.0	612.4	613.8	616.5	618.6	618.2
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3
2.5°	2443.2	2436.4	2443.2	2438.6	2440.9	2434.2	2413.9	2407.1	2413.9	2420.6	2420.6
5°	2472.5	2467.9	2472.5	2472.5	2470.2	2465.7	2443.2	2438.6	2443.2	2445.5	2440.9
7.5°	2481.5	2474.8	2481.5	2477.0	2477.0	2472.5	2449.9	2445.5	2447.7	2454.4	2447.7
10°	2481.5	2474.8	2481.5	2479.2	2477.0	2472.5	2449.9	2440.9	2440.9	2447.7	2440.9
12.5°	2470.2	2465.7	2470.2	2465.7	2465.7	2461.2	2438.6	2429.7	2431.9	2434.2	2425.1
15°	2452.2	2445.5	2452.2	2447.7	2449.9	2443.2	2418.4	2409.3	2409.3	2413.9	2398.1
17.5°	2425.1	2416.2	2425.1	2422.9	2420.6	2416.2	2393.6	2384.5	2382.3	2384.5	2373.3
20°	2393.6	2386.9	2393.6	2391.3	2391.3	2382.3	2359.8	2348.5	2348.5	2348.5	2337.2
22.5°	2344.0	2337.2	2344.0	2348.5	2348.5	2346.3	2325.9	2310.2	2305.7	2305.7	2292.2
25°	2287.7	2280.9	2287.7	2287.7	2285.4	2287.7	2280.9	2271.9	2265.1	2258.4	2244.9
27.5°	2233.6	2229.1	2233.6	2229.1	2233.6	2226.8	2224.5	2222.3	2213.3	2206.5	2188.5
30°	2179.5	2175.0	2179.5	2175.0	2170.4	2165.9	2154.6	2150.2	2159.2	2154.6	2125.3
32.5°	2111.8	2107.3	2111.8	2111.8	2107.3	2107.3	2089.3	2082.5	2084.8	2098.3	2071.3
35°	2042.0	2035.2	2042.0	2039.7	2042.0	2035.2	2023.9	2021.7	2012.7	2028.5	2008.2
37.5°	1960.9	1954.0	1960.9	1960.9	1960.9	1965.3	1956.4	1949.6	1936.0	1956.4	1940.5
40°	1877.5	1868.4	1877.5	1875.2	1877.5	1881.9	1877.5	1873.0	1859.4	1875.2	1861.7
42.5°	1782.8	1780.5	1782.8	1785.1	1785.1	1794.0	1800.9	1791.8	1787.3	1776.0	1785.1
45°	1681.3	1676.9	1681.3	1685.9	1688.1	1692.6	1713.0	1713.0	1706.2	1688.1	1701.7
47.5°	1573.2	1561.9	1573.2	1586.7	1586.7	1593.4	1613.8	1629.6	1618.3	1595.7	1602.5
50°	1458.3	1460.5	1458.3	1467.2	1467.2	1492.0	1507.8	1523.6	1534.9	1507.8	1476.3
52.5°	1345.6	1343.3	1345.6	1352.3	1361.3	1372.6	1399.7	1415.4	1433.4	1417.7	1368.1
55°	1232.8	1237.3	1232.8	1235.1	1239.6	1246.4	1287.0	1302.7	1336.5	1316.3	1264.4
57.5°	1120.1	1113.4	1120.1	1124.7	1127.0	1133.7	1167.5	1196.8	1217.1	1219.3	1156.3
60°	989.4	980.4	989.4	1009.7	1014.3	1018.7	1050.3	1077.3	1095.3	1102.1	1036.7
62.5°	874.5	858.7	874.5	888.0	897.1	908.3	930.8	971.4	987.2	989.4	897.1
65°	752.8	746.0	752.8	779.8	782.1	795.6	820.4	849.7	883.5	879.0	746.0
67.5°	642.4	642.4	642.4	660.4	673.9	680.7	712.2	725.8	768.6	773.1	622.0
70°	540.9	538.7	540.9	554.5	563.4	579.2	608.5	624.4	658.1	669.4	504.8
72.5°	444.0	441.8	444.0	455.3	464.3	477.8	502.6	520.6	549.9	563.4	392.1
75°	358.4	353.9	358.4	367.4	365.1	383.2	403.4	421.4	448.5	457.5	290.7
77.5°	275.0	275.0	275.0	284.0	284.0	302.0	311.1	333.5	349.3	362.8	214.1
80°	205.1	202.8	205.1	207.3	207.3	216.4	232.1	247.9	261.4	261.4	146.5
82.5°	144.2	139.8	144.2	144.2	144.2	148.7	157.8	162.2	171.3	178.0	92.4
85°	90.1	90.1	90.1	92.4	90.1	94.7	96.9	101.4	101.4	96.9	56.4
87.5°	58.6	56.4	58.6	56.4	56.4	54.1	54.1	54.1	51.9	49.6	31.5
90°	15.7	15.7	15.7	15.7	15.7	21.0	27.9	31.3	26.9	18.1	11.5
92.5°	62.8	50.3	62.8	75.3	78.4	111.2	154.9	176.7	155.1	112.0	79.7
95°	219.1	181.2	219.1	256.9	266.3	349.7	461.0	516.5	436.3	275.6	155.2
97.5°	524.9	453.0	524.9	596.8	614.9	667.6	737.8	773.0	639.1	371.4	170.5
100°	756.2	670.5	756.2	842.0	863.4	859.6	854.4	851.9	703.3	406.2	183.4
102.5°	983.9	910.5	983.9	1057.3	1075.6	1008.5	918.9	874.1	723.5	422.2	196.2
105°	1274.0	1234.6	1274.0	1313.5	1323.4	1172.8	972.0	871.7	725.8	434.0	215.2
107.5°	1464.1	1473.6	1464.1	1454.6	1452.2	1242.2	962.1	822.1	693.4	436.2	243.2
110°	1536.6	1577.7	1536.6	1495.6	1485.3	1250.5	937.4	780.8	664.8	432.8	258.9



TEST NUMBER: P934975

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1543.1	1606.2	1543.1	1479.9	1464.1	1223.8	903.5	743.3	639.8	433.0	277.9
115°	1502.1	1589.7	1502.1	1414.6	1392.7	1161.2	852.6	698.2	611.1	437.0	306.4
117.5°	1415.4	1512.4	1415.4	1318.3	1294.1	1085.1	806.6	667.2	593.2	445.2	334.1
120°	1345.5	1439.8	1345.5	1251.2	1227.6	1036.7	782.2	654.9	587.1	451.7	350.1
122.5°	1277.4	1370.5	1277.4	1184.3	1161.1	989.1	760.0	645.4	584.0	461.2	369.1
125°	1180.3	1266.0	1180.3	1094.5	1073.1	927.2	732.4	635.1	581.4	474.0	393.5
127.5°	1093.0	1165.2	1093.0	1020.7	1002.6	877.2	710.0	626.4	579.9	486.8	417.0
130°	1041.4	1108.2	1041.4	974.7	958.0	846.4	697.5	623.1	580.8	496.2	432.7
132.5°	994.7	1054.6	994.7	934.9	920.0	820.1	686.8	620.2	581.4	503.8	445.5
135°	930.7	982.3	930.7	879.1	866.2	782.6	671.0	615.2	580.8	512.0	460.4
137.5°	879.4	921.7	879.4	837.2	826.6	755.9	661.6	614.4	584.4	524.4	479.3
140°	844.2	883.6	844.2	804.7	794.8	733.8	652.2	611.5	585.0	532.0	492.2
142.5°	815.0	848.9	815.0	781.1	772.6	718.8	647.3	611.5	587.1	538.3	501.7
145°	771.2	796.9	771.2	745.5	739.1	695.2	636.7	607.4	587.1	546.6	516.1
147.5°	737.6	758.9	737.6	716.3	711.0	676.5	630.4	607.4	591.1	558.6	534.3
150°	716.5	733.8	716.5	699.3	694.9	665.7	626.8	607.4	593.3	565.0	543.8
152.5°	698.4	711.5	698.4	685.4	682.2	657.2	624.0	607.4	594.6	569.1	550.0
155°	677.6	686.2	677.6	669.0	666.9	647.1	620.6	607.4	597.6	578.2	563.6
157.5°	661.2	667.2	661.2	655.2	653.7	638.2	617.7	607.4	600.7	587.3	577.3
160°	651.3	654.9	651.3	647.9	647.0	633.8	616.2	607.4	602.1	591.4	583.4
162.5°	645.0	648.2	645.0	641.7	640.9	629.7	614.9	607.4	603.6	595.8	590.1
165°	635.7	639.2	635.7	632.3	631.4	623.4	612.7	607.4	605.6	602.2	599.6
167.5°	629.1	630.5	629.1	627.5	627.2	622.0	614.9	611.5	610.1	607.1	604.9
170°	627.2	627.2	627.2	627.2	627.2	622.0	614.9	611.5	611.4	611.2	611.1
172.5°	622.3	621.0	622.3	623.6	623.9	619.7	614.2	611.5	611.5	611.5	611.5
175°	619.4	619.4	619.4	619.4	619.4	616.7	613.3	611.5	612.3	614.0	615.2
177.5°	616.7	615.2	616.7	618.2	618.6	616.5	613.8	612.4	613.0	614.2	615.2
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



TEST NUMBER: P934975
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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3
2.5°	2416.2	2402.6	2402.6	2380.1	2371.0	2364.3	2353.0	2319.2	2310.2	2301.2	2314.7
5°	2436.4	2411.6	2393.6	2353.0	2319.2	2305.7	2262.9	2181.7	2127.6	2087.1	2064.5
7.5°	2440.9	2409.3	2375.6	2312.4	2231.3	2195.2	2064.5	1915.8	1875.2	1839.1	1816.6
10°	2436.4	2400.4	2353.0	2258.4	2066.8	2003.7	1873.0	1776.0	1751.2	1744.5	1751.2
12.5°	2420.6	2386.9	2321.5	2163.7	1895.5	1852.6	1776.0	1719.7	1715.2	1726.4	1787.3
15°	2393.6	2362.0	2285.4	2037.5	1800.9	1769.3	1715.2	1694.9	1719.7	1798.6	1981.1
17.5°	2366.5	2330.5	2235.8	1913.6	1728.7	1706.2	1667.8	1708.4	1848.2	1954.0	2015.0
20°	2330.5	2287.7	2179.5	1823.3	1676.9	1656.6	1638.5	1821.1	1927.0	1965.3	1999.2
22.5°	2287.7	2242.6	2102.9	1760.3	1622.7	1607.0	1618.3	1884.2	1927.0	1954.0	1983.3
25°	2231.3	2193.0	2012.7	1710.6	1579.9	1561.9	1604.7	1877.5	1902.3	1909.0	1967.6
27.5°	2179.5	2129.9	1918.0	1665.6	1528.1	1521.3	1616.0	1848.2	1866.2	1873.0	1936.0
30°	2116.4	2042.0	1812.1	1618.3	1474.0	1471.8	1618.3	1812.1	1807.6	1825.6	1888.7
32.5°	2051.0	1911.2	1692.6	1559.7	1422.2	1419.9	1602.5	1758.0	1753.5	1778.3	1825.6
35°	1990.2	1809.8	1530.4	1492.0	1356.8	1359.1	1564.2	1694.9	1697.1	1719.7	1749.0
37.5°	1927.0	1721.9	1352.3	1417.7	1293.7	1293.7	1512.4	1636.3	1631.8	1638.5	1679.1
40°	1852.6	1584.5	1194.5	1320.7	1235.1	1228.4	1449.2	1573.2	1557.4	1555.2	1611.5
42.5°	1773.8	1433.4	1077.3	1192.3	1167.5	1158.5	1372.6	1496.5	1467.2	1474.0	1546.1
45°	1688.1	1392.9	987.2	1007.4	1097.7	1090.8	1289.2	1408.6	1388.4	1406.4	1480.7
47.5°	1602.5	1311.8	957.9	836.1	1023.2	1021.0	1196.8	1323.0	1311.8	1329.8	1408.6
50°	1485.3	1221.6	955.7	716.7	939.9	948.8	1086.4	1239.6	1239.6	1255.4	1338.7
52.5°	1334.3	1111.2	867.8	649.1	843.0	870.0	989.4	1167.5	1172.0	1187.8	1262.1
55°	1196.8	996.2	804.6	597.3	728.0	786.6	894.7	1093.1	1102.1	1117.9	1185.5
57.5°	1070.6	829.4	791.1	536.4	622.0	678.4	811.4	1021.0	1025.5	1039.0	1104.4
60°	935.3	599.5	725.8	471.1	529.7	572.5	734.7	935.3	951.1	960.1	1016.5
62.5°	782.1	435.0	658.1	426.0	484.6	493.6	671.7	854.2	874.5	881.3	915.1
65°	556.7	365.1	559.0	387.7	437.3	439.5	604.0	770.8	788.8	800.1	825.0
67.5°	376.4	297.5	426.0	351.6	401.2	403.4	538.7	673.9	698.7	707.7	723.5
70°	261.4	198.4	315.5	313.3	360.6	365.1	468.8	586.0	608.5	615.3	624.4
72.5°	191.5	160.0	261.4	281.8	317.8	322.3	396.7	486.8	509.4	516.1	520.6
75°	146.5	169.1	211.9	245.7	270.5	272.7	324.6	396.7	412.5	417.0	419.2
77.5°	117.2	157.8	155.5	198.4	220.8	216.4	254.7	306.5	320.0	320.0	320.0
80°	87.9	124.0	117.2	142.0	162.2	157.8	182.6	218.6	223.2	227.6	225.4
82.5°	65.4	78.9	78.9	90.1	108.2	103.7	121.7	142.0	142.0	142.0	146.5
85°	40.6	45.1	36.1	47.3	60.8	58.6	67.6	76.6	78.9	78.9	74.4
87.5°	24.8	20.2	11.3	18.0	27.1	27.1	31.5	33.8	31.5	31.5	31.5
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.3	27.9	21.0
92.5°	72.6	44.6	16.5	44.6	72.6	79.7	112.0	155.1	176.7	154.9	111.2
95°	142.3	91.0	39.6	91.0	142.3	155.2	275.6	436.3	516.5	461.0	349.7
97.5°	159.1	113.8	68.6	113.8	159.1	170.5	371.4	639.1	773.0	737.8	667.6
100°	173.1	132.0	90.8	132.0	173.1	183.4	406.2	703.3	851.9	854.4	859.6
102.5°	186.6	148.2	109.8	148.2	186.6	196.2	422.2	723.5	874.1	918.9	1008.5
105°	207.1	174.6	142.1	174.6	207.1	215.2	434.0	725.8	871.7	972.0	1172.8
107.5°	235.7	205.4	175.1	205.4	235.7	243.2	436.2	693.4	822.1	962.1	1242.2
110°	252.0	224.8	197.4	224.8	252.0	258.9	432.8	664.8	780.8	937.4	1250.5



TEST NUMBER: P934975

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	271.4	245.3	219.2	245.3	271.4	277.9	433.0	639.8	743.3	903.5	1223.8
115°	300.3	276.3	252.3	276.3	300.3	306.4	437.0	611.1	698.2	852.6	1161.2
117.5°	328.6	306.7	284.9	306.7	328.6	334.1	445.2	593.2	667.2	806.6	1085.1
120°	345.0	324.5	303.9	324.5	345.0	350.1	451.7	587.1	654.9	782.2	1036.7
122.5°	364.0	343.2	322.5	343.2	364.0	369.1	461.2	584.0	645.4	760.0	989.1
125°	388.8	369.9	350.9	369.9	388.8	393.5	474.0	581.4	635.1	732.4	927.2
127.5°	412.2	393.2	374.1	393.2	412.2	417.0	486.8	579.9	626.4	710.0	877.2
130°	427.6	407.1	386.5	407.1	427.6	432.7	496.2	580.8	623.1	697.5	846.4
132.5°	440.4	419.8	399.2	419.8	440.4	445.5	503.8	581.4	620.2	686.8	820.1
135°	455.7	437.0	418.2	437.0	455.7	460.4	512.0	580.8	615.2	671.0	782.6
137.5°	474.7	456.2	437.7	456.2	474.7	479.3	524.4	584.4	614.4	661.6	755.9
140°	488.0	470.8	453.8	470.8	488.0	492.2	532.0	585.0	611.5	652.2	733.8
142.5°	497.8	482.0	466.2	482.0	497.8	501.7	538.3	587.1	611.5	647.3	718.8
145°	512.6	499.0	485.2	499.0	512.6	516.1	546.6	587.1	607.4	636.7	695.2
147.5°	530.9	517.5	504.1	517.5	530.9	534.3	558.6	591.1	607.4	630.4	676.5
150°	540.8	528.6	516.5	528.6	540.8	543.8	565.0	593.3	607.4	626.8	665.7
152.5°	547.7	538.6	529.3	538.6	547.7	550.0	569.1	594.6	607.4	624.0	657.2
155°	561.9	555.1	548.3	555.1	561.9	563.6	578.2	597.6	607.4	620.6	647.1
157.5°	575.6	569.0	562.4	569.0	575.6	577.3	587.3	600.7	607.4	617.7	638.2
160°	582.2	577.0	571.9	577.0	582.2	583.4	591.4	602.1	607.4	616.2	633.8
162.5°	589.1	585.3	581.4	585.3	589.1	590.1	595.8	603.6	607.4	614.9	629.7
165°	598.7	595.2	591.7	595.2	598.7	599.6	602.2	605.6	607.4	612.7	623.4
167.5°	604.5	602.9	601.2	602.9	604.5	604.9	607.1	610.1	611.5	614.9	622.0
170°	610.7	609.1	607.4	609.1	610.7	611.1	611.2	611.4	611.5	614.9	622.0
172.5°	611.4	611.0	610.7	611.0	611.4	611.5	611.5	611.5	611.5	614.2	619.7
175°	615.2	615.2	615.2	615.2	615.2	615.2	614.0	612.3	611.5	613.3	616.7
177.5°	615.2	615.2	615.2	615.2	615.2	615.2	614.2	613.0	612.4	613.8	616.5
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



TEST NUMBER: P934975
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3
2.5°	2298.9	2292.2	2301.2	2276.4	2301.2	2292.2	2298.9	2314.7	2301.2	2310.2	2319.2
5°	2017.2	2005.9	1969.9	1940.5	1969.9	2005.9	2017.2	2064.5	2087.1	2127.6	2181.7
7.5°	1803.1	1794.0	1785.1	1767.0	1785.1	1794.0	1803.1	1816.6	1839.1	1875.2	1915.8
10°	1755.8	1758.0	1771.6	1769.3	1771.6	1758.0	1755.8	1751.2	1744.5	1751.2	1776.0
12.5°	1877.5	1897.7	1972.2	1967.6	1972.2	1897.7	1877.5	1787.3	1726.4	1715.2	1719.7
15°	2017.2	2023.9	2039.7	2042.0	2039.7	2023.9	2017.2	1981.1	1798.6	1719.7	1694.9
17.5°	2030.7	2033.0	2044.3	2044.3	2044.3	2033.0	2030.7	2015.0	1954.0	1848.2	1708.4
20°	2019.5	2023.9	2046.5	2051.0	2046.5	2023.9	2019.5	1999.2	1965.3	1927.0	1821.1
22.5°	2015.0	2023.9	2042.0	2039.7	2042.0	2023.9	2015.0	1983.3	1954.0	1927.0	1884.2
25°	1992.4	1992.4	1994.6	1996.9	1994.6	1992.4	1992.4	1967.6	1909.0	1902.3	1877.5
27.5°	1945.1	1949.6	1963.1	1960.9	1963.1	1949.6	1945.1	1936.0	1873.0	1866.2	1848.2
30°	1902.3	1897.7	1886.5	1877.5	1886.5	1897.7	1902.3	1888.7	1825.6	1807.6	1812.1
32.5°	1830.2	1818.9	1807.6	1800.9	1807.6	1818.9	1830.2	1825.6	1778.3	1753.5	1758.0
35°	1744.5	1746.7	1744.5	1737.7	1744.5	1746.7	1744.5	1749.0	1719.7	1697.1	1694.9
37.5°	1683.6	1688.1	1685.9	1676.9	1685.9	1688.1	1683.6	1679.1	1638.5	1631.8	1636.3
40°	1620.5	1622.7	1620.5	1613.8	1620.5	1622.7	1620.5	1611.5	1555.2	1557.4	1573.2
42.5°	1559.7	1557.4	1550.6	1546.1	1550.6	1557.4	1559.7	1546.1	1474.0	1467.2	1496.5
45°	1489.8	1492.0	1478.5	1471.8	1478.5	1492.0	1489.8	1480.7	1406.4	1388.4	1408.6
47.5°	1419.9	1419.9	1408.6	1401.9	1408.6	1419.9	1419.9	1408.6	1329.8	1311.8	1323.0
50°	1345.6	1343.3	1327.6	1325.3	1327.6	1343.3	1345.6	1338.7	1255.4	1239.6	1239.6
52.5°	1259.9	1259.9	1262.1	1266.6	1262.1	1259.9	1259.9	1262.1	1187.8	1172.0	1167.5
55°	1185.5	1187.8	1203.6	1208.0	1203.6	1187.8	1185.5	1185.5	1117.9	1102.1	1093.1
57.5°	1108.9	1108.9	1120.1	1120.1	1120.1	1108.9	1108.9	1104.4	1039.0	1025.5	1021.0
60°	1021.0	1025.5	1034.5	1032.3	1034.5	1025.5	1021.0	1016.5	960.1	951.1	935.3
62.5°	928.6	933.1	935.3	930.8	935.3	933.1	928.6	915.1	881.3	874.5	854.2
65°	831.7	836.1	838.4	833.9	838.4	836.1	831.7	825.0	800.1	788.8	770.8
67.5°	732.5	730.2	728.0	737.0	728.0	730.2	732.5	723.5	707.7	698.7	673.9
70°	631.1	631.1	628.8	633.3	628.8	631.1	631.1	624.4	615.3	608.5	586.0
72.5°	522.9	520.6	529.7	522.9	529.7	520.6	522.9	520.6	516.1	509.4	486.8
75°	417.0	421.4	417.0	423.8	417.0	421.4	417.0	419.2	417.0	412.5	396.7
77.5°	317.8	322.3	317.8	317.8	317.8	322.3	317.8	320.0	320.0	320.0	306.5
80°	225.4	223.2	223.2	220.8	223.2	223.2	225.4	225.4	227.6	223.2	218.6
82.5°	144.2	142.0	142.0	146.5	142.0	142.0	144.2	146.5	142.0	142.0	142.0
85°	78.9	81.2	76.6	76.6	76.6	81.2	78.9	74.4	78.9	78.9	76.6
87.5°	29.3	27.1	27.1	27.1	27.1	27.1	29.3	31.5	31.5	31.5	33.8
90°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	21.0	27.9	31.3	26.9
92.5°	78.4	75.3	62.8	50.3	62.8	75.3	78.4	111.2	154.9	176.7	155.1
95°	266.3	256.9	219.1	181.2	219.1	256.9	266.3	349.7	461.0	516.5	436.3
97.5°	614.9	596.8	524.9	453.0	524.9	596.8	614.9	667.6	737.8	773.0	639.1
100°	863.4	842.0	756.2	670.5	756.2	842.0	863.4	859.6	854.4	851.9	703.3
102.5°	1075.6	1057.3	983.9	910.5	983.9	1057.3	1075.6	1008.5	918.9	874.1	723.5
105°	1323.4	1313.5	1274.0	1234.6	1274.0	1313.5	1323.4	1172.8	972.0	871.7	725.8
107.5°	1452.2	1454.6	1464.1	1473.6	1464.1	1454.6	1452.2	1242.2	962.1	822.1	693.4
110°	1485.3	1495.6	1536.6	1577.7	1536.6	1495.6	1485.3	1250.5	937.4	780.8	664.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1464.1	1479.9	1543.1	1606.2	1543.1	1479.9	1464.1	1223.8	903.5	743.3	639.8
115°	1392.7	1414.6	1502.1	1589.7	1502.1	1414.6	1392.7	1161.2	852.6	698.2	611.1
117.5°	1294.1	1318.3	1415.4	1512.4	1415.4	1318.3	1294.1	1085.1	806.6	667.2	593.2
120°	1227.6	1251.2	1345.5	1439.8	1345.5	1251.2	1227.6	1036.7	782.2	654.9	587.1
122.5°	1161.1	1184.3	1277.4	1370.5	1277.4	1184.3	1161.1	989.1	760.0	645.4	584.0
125°	1073.1	1094.5	1180.3	1266.0	1180.3	1094.5	1073.1	927.2	732.4	635.1	581.4
127.5°	1002.6	1020.7	1093.0	1165.2	1093.0	1020.7	1002.6	877.2	710.0	626.4	579.9
130°	958.0	974.7	1041.4	1108.2	1041.4	974.7	958.0	846.4	697.5	623.1	580.8
132.5°	920.0	934.9	994.7	1054.6	994.7	934.9	920.0	820.1	686.8	620.2	581.4
135°	866.2	879.1	930.7	982.3	930.7	879.1	866.2	782.6	671.0	615.2	580.8
137.5°	826.6	837.2	879.4	921.7	879.4	837.2	826.6	755.9	661.6	614.4	584.4
140°	794.8	804.7	844.2	883.6	844.2	804.7	794.8	733.8	652.2	611.5	585.0
142.5°	772.6	781.1	815.0	848.9	815.0	781.1	772.6	718.8	647.3	611.5	587.1
145°	739.1	745.5	771.2	796.9	771.2	745.5	739.1	695.2	636.7	607.4	587.1
147.5°	711.0	716.3	737.6	758.9	737.6	716.3	711.0	676.5	630.4	607.4	591.1
150°	694.9	699.3	716.5	733.8	716.5	699.3	694.9	665.7	626.8	607.4	593.3
152.5°	682.2	685.4	698.4	711.5	698.4	685.4	682.2	657.2	624.0	607.4	594.6
155°	666.9	669.0	677.6	686.2	677.6	669.0	666.9	647.1	620.6	607.4	597.6
157.5°	653.7	655.2	661.2	667.2	661.2	655.2	653.7	638.2	617.7	607.4	600.7
160°	647.0	647.9	651.3	654.9	651.3	647.9	647.0	633.8	616.2	607.4	602.1
162.5°	640.9	641.7	645.0	648.2	645.0	641.7	640.9	629.7	614.9	607.4	603.6
165°	631.4	632.3	635.7	639.2	635.7	632.3	631.4	623.4	612.7	607.4	605.6
167.5°	627.2	627.5	629.1	630.5	629.1	627.5	627.2	622.0	614.9	611.5	610.1
170°	627.2	627.2	627.2	627.2	627.2	627.2	627.2	622.0	614.9	611.5	611.4
172.5°	623.9	623.6	622.3	621.0	622.3	623.6	623.9	619.7	614.2	611.5	611.5
175°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	616.7	613.3	611.5	612.3
177.5°	618.6	618.2	616.7	615.2	616.7	618.2	618.6	616.5	613.8	612.4	613.0
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2382.3	2382.3	2382.3	2382.3	2382.3
2.5°	2353.0	2364.3	2371.0	2380.1	2402.6
5°	2262.9	2305.7	2319.2	2353.0	2393.6
7.5°	2064.5	2195.2	2231.3	2312.4	2375.6
10°	1873.0	2003.7	2066.8	2258.4	2353.0
12.5°	1776.0	1852.6	1895.5	2163.7	2321.5
15°	1715.2	1769.3	1800.9	2037.5	2285.4
17.5°	1667.8	1706.2	1728.7	1913.6	2235.8
20°	1638.5	1656.6	1676.9	1823.3	2179.5
22.5°	1618.3	1607.0	1622.7	1760.3	2102.9
25°	1604.7	1561.9	1579.9	1710.6	2012.7
27.5°	1616.0	1521.3	1528.1	1665.6	1918.0
30°	1618.3	1471.8	1474.0	1618.3	1812.1
32.5°	1602.5	1419.9	1422.2	1559.7	1692.6
35°	1564.2	1359.1	1356.8	1492.0	1530.4
37.5°	1512.4	1293.7	1293.7	1417.7	1352.3
40°	1449.2	1228.4	1235.1	1320.7	1194.5
42.5°	1372.6	1158.5	1167.5	1192.3	1077.3
45°	1289.2	1090.8	1097.7	1007.4	987.2
47.5°	1196.8	1021.0	1023.2	836.1	957.9
50°	1086.4	948.8	939.9	716.7	955.7
52.5°	989.4	870.0	843.0	649.1	867.8
55°	894.7	786.6	728.0	597.3	804.6
57.5°	811.4	678.4	622.0	536.4	791.1
60°	734.7	572.5	529.7	471.1	725.8
62.5°	671.7	493.6	484.6	426.0	658.1
65°	604.0	439.5	437.3	387.7	559.0
67.5°	538.7	403.4	401.2	351.6	426.0
70°	468.8	365.1	360.6	313.3	315.5
72.5°	396.7	322.3	317.8	281.8	261.4
75°	324.6	272.7	270.5	245.7	211.9
77.5°	254.7	216.4	220.8	198.4	155.5
80°	182.6	157.8	162.2	142.0	117.2
82.5°	121.7	103.7	108.2	90.1	78.9
85°	67.6	58.6	60.8	47.3	36.1
87.5°	31.5	27.1	27.1	18.0	11.3
90°	18.1	11.5	10.7	7.4	4.1
92.5°	112.0	79.7	72.6	44.6	16.5
95°	275.6	155.2	142.3	91.0	39.6
97.5°	371.4	170.5	159.1	113.8	68.6
100°	406.2	183.4	173.1	132.0	90.8
102.5°	422.2	196.2	186.6	148.2	109.8
105°	434.0	215.2	207.1	174.6	142.1
107.5°	436.2	243.2	235.7	205.4	175.1
110°	432.8	258.9	252.0	224.8	197.4



TEST NUMBER: P934975

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	433.0	277.9	271.4	245.3	219.2
115°	437.0	306.4	300.3	276.3	252.3
117.5°	445.2	334.1	328.6	306.7	284.9
120°	451.7	350.1	345.0	324.5	303.9
122.5°	461.2	369.1	364.0	343.2	322.5
125°	474.0	393.5	388.8	369.9	350.9
127.5°	486.8	417.0	412.2	393.2	374.1
130°	496.2	432.7	427.6	407.1	386.5
132.5°	503.8	445.5	440.4	419.8	399.2
135°	512.0	460.4	455.7	437.0	418.2
137.5°	524.4	479.3	474.7	456.2	437.7
140°	532.0	492.2	488.0	470.8	453.8
142.5°	538.3	501.7	497.8	482.0	466.2
145°	546.6	516.1	512.6	499.0	485.2
147.5°	558.6	534.3	530.9	517.5	504.1
150°	565.0	543.8	540.8	528.6	516.5
152.5°	569.1	550.0	547.7	538.6	529.3
155°	578.2	563.6	561.9	555.1	548.3
157.5°	587.3	577.3	575.6	569.0	562.4
160°	591.4	583.4	582.2	577.0	571.9
162.5°	595.8	590.1	589.1	585.3	581.4
165°	602.2	599.6	598.7	595.2	591.7
167.5°	607.1	604.9	604.5	602.9	601.2
170°	611.2	611.1	610.7	609.1	607.4
172.5°	611.5	611.5	611.4	611.0	610.7
175°	614.0	615.2	615.2	615.2	615.2
177.5°	614.2	615.2	615.2	615.2	615.2
180°	615.2	615.2	615.2	615.2	615.2



TEST NUMBER: P934975
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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	15.09	16.06	15.95	16.94	18.05	17.91	18.88	18.77	19.76	20.87
	3H	15.57	16.44	16.45	17.33	18.47	19.26	20.13	20.14	21.02	22.16
	4H	15.77	16.59	16.66	17.49	18.63	19.71	20.53	20.60	21.43	22.57
	6H	15.89	16.65	16.79	17.55	18.71	20.00	20.76	20.90	21.66	22.82
	8H	15.90	16.62	16.81	17.54	18.70	20.08	20.80	20.99	21.72	22.88
	12H	15.87	16.56	16.79	17.47	18.66	20.12	20.81	21.03	21.72	22.90
4H	2H	16.13	16.95	17.03	17.85	18.99	18.34	19.16	19.23	20.05	21.20
	3H	17.17	17.85	18.07	18.78	19.94	19.85	20.53	20.75	21.46	22.62
	4H	17.45	18.07	18.37	19.00	20.18	20.38	21.00	21.30	21.93	23.11
	6H	17.58	18.12	18.51	19.07	20.25	20.75	21.29	21.68	22.24	23.42
	8H	17.59	18.09	18.52	19.03	20.23	20.86	21.36	21.79	22.30	23.50
	12H	17.56	18.01	18.51	18.97	20.18	20.92	21.37	21.87	22.33	23.54
8H	4H	17.91	18.41	18.84	19.35	20.56	20.51	21.02	21.45	21.96	23.16
	6H	18.18	18.59	19.14	19.58	20.78	20.95	21.37	21.91	22.35	23.55
	8H	18.22	18.59	19.19	19.56	20.78	21.11	21.47	22.07	22.45	23.66
	12H	18.21	18.53	19.18	19.50	20.77	21.21	21.53	22.18	22.50	23.76
12H	4H	17.92	18.37	18.87	19.33	20.54	20.48	20.94	21.43	21.90	23.10
	6H	18.24	18.61	19.21	19.58	20.80	20.95	21.32	21.92	22.29	23.51
	8H	18.31	18.63	19.28	19.60	20.87	21.12	21.44	22.09	22.41	23.67