

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: P934137

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934137
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

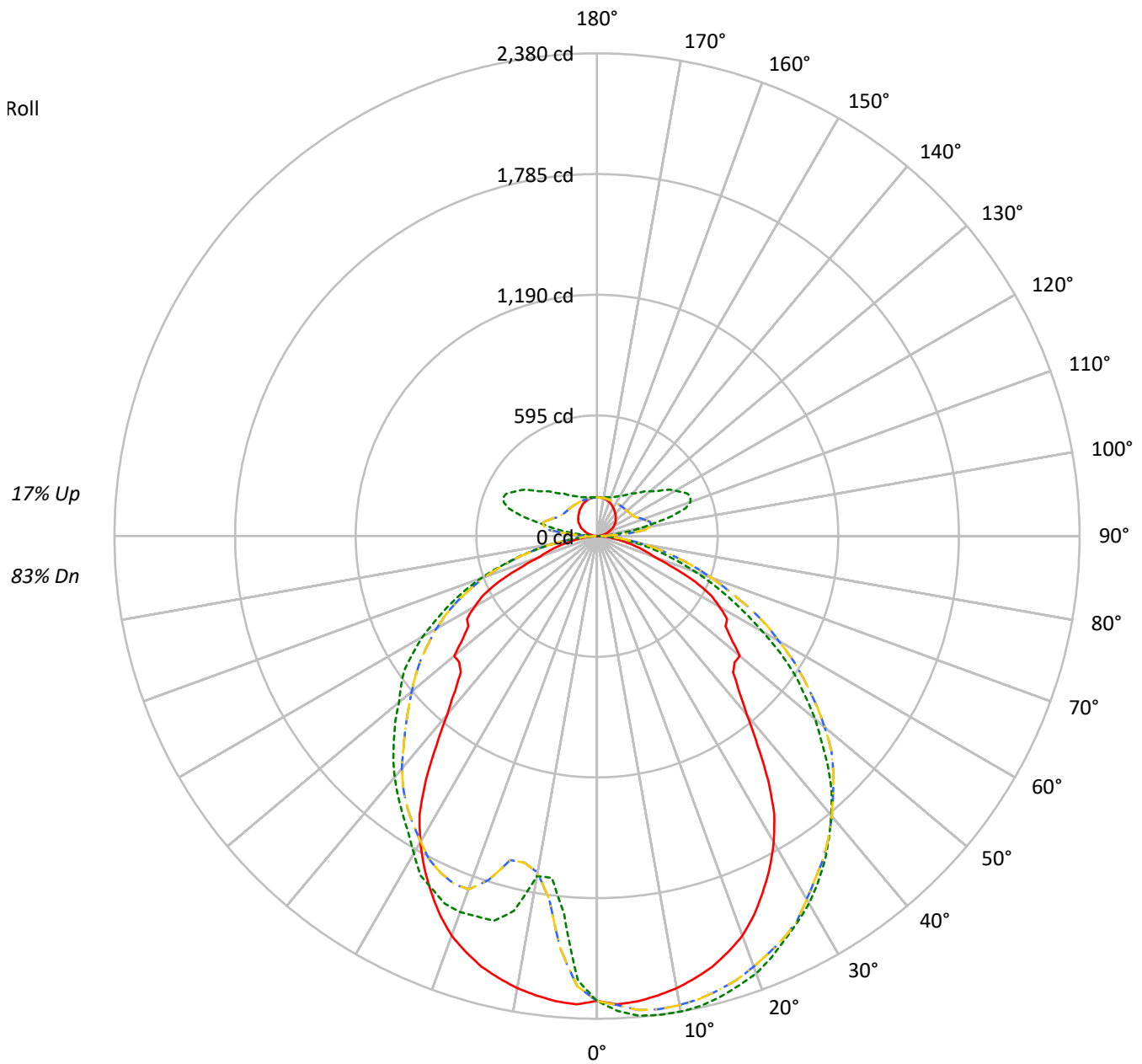
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7181.5 lumens
Efficiency: N/A
Efficacy: 96.5 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): 74.4
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



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14176	14176	14176	14176
5°	14276	14309	14276	11251
10°	14175	14096	14175	10077
15°	14016	13790	14016	11515
20°	13718	13428	13718	11539
25°	13112	12900	13112	11295
30°	12331	12462	12331	10758
35°	10988	11908	10988	10167
40°	9151	11256	9151	9722
45°	8171	10492	8171	9209
50°	8674	9582	8674	8695
55°	8153	8600	8153	8397
60°	8395	7304	8395	7691
65°	7599	6039	7599	6750
70°	5249	4812	5249	5658
75°	4586	3558	4586	4260
80°	3668	2352	3668	2560
85°	2069	1245	2069	1059

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	2.9
10°-20°	587.3	8.2
20°-30°	907.8	12.6
30°-40°	1083.8	15.1
40°-50°	1090.1	15.2
50°-60°	948.5	13.2
60°-70°	672.5	9.4
70°-80°	355.8	5.0
80°-90°	89.3	1.2
90°-100°	93.2	1.3
100°-110°	245.0	3.4
110°-120°	254.1	3.5
120°-130°	203.8	2.8
130°-140°	159.9	2.2
140°-150°	122.7	1.7
150°-160°	88.4	1.2
160°-170°	54.1	0.8
170°-180°	18.3	0.3
0°-30°	1702.0	23.7
0°-40°	2785.7	38.8
0°-60°	4824.4	67.2
0°-90°	5942.0	82.7
90°-120°	592.3	8.2
90°-150°	1078.7	15.0
90°-180°	1239.0	17.3
0°-180°	7181.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2292	2292	2292	2292	2292	
5°	2302	2374	2302	1866	2302	218
15°	2198	2352	2198	1964	2198	619
25°	1936	2194	1936	1921	1936	889
35°	1472	1958	1472	1671	1472	911
45°	950	1613	950	1416	950	761
55°	774	1190	774	1162	774	711
65°	538	718	538	802	538	514
75°	204	340	204	408	204	214
85°	35	87	35	74	35	47
90°	1	5	1	5	1	3
95°	12	56	12	56	12	14
105°	44	384	44	384	44	47
115°	78	494	78	494	78	77
125°	109	393	109	393	109	97
135°	130	305	130	305	130	101
145°	151	248	151	248	151	94
155°	170	213	170	213	170	78
165°	184	199	184	199	184	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5
2.5°	2310.9	2310.9	2324.0	2328.3	2328.3	2321.8	2315.3	2321.8	2341.3	2347.8	2345.6
5°	2302.3	2319.6	2343.5	2347.8	2352.2	2350.0	2345.6	2350.0	2371.7	2376.0	2378.1
7.5°	2285.0	2317.4	2347.8	2354.3	2360.8	2354.3	2352.2	2356.5	2378.1	2382.5	2382.5
10°	2263.3	2308.8	2343.5	2347.8	2354.3	2347.8	2347.8	2356.5	2378.1	2382.5	2384.6
12.5°	2232.9	2295.8	2328.3	2332.6	2341.3	2339.1	2337.0	2345.6	2367.3	2371.7	2371.7
15°	2198.3	2271.9	2302.3	2306.7	2321.8	2317.4	2317.4	2326.1	2350.0	2356.5	2354.3
17.5°	2150.5	2241.6	2276.3	2282.7	2293.6	2291.5	2293.6	2302.3	2324.0	2328.3	2330.5
20°	2096.4	2200.4	2241.6	2248.1	2258.9	2258.9	2258.9	2269.8	2291.5	2300.1	2300.1
22.5°	2022.7	2157.0	2200.4	2204.8	2217.7	2217.7	2222.1	2237.2	2256.8	2258.9	2258.9
25°	1935.9	2109.4	2146.2	2159.2	2172.2	2178.7	2185.2	2193.9	2200.4	2198.3	2200.4
27.5°	1844.8	2048.6	2096.4	2105.0	2122.3	2128.8	2137.5	2139.7	2141.9	2148.4	2144.0
30°	1742.9	1964.1	2035.6	2044.3	2072.5	2076.8	2068.2	2072.5	2083.3	2087.7	2092.0
32.5°	1628.1	1838.3	1972.8	1992.3	2018.3	2005.3	2003.1	2009.6	2026.9	2026.9	2031.3
35°	1472.0	1740.8	1914.3	1931.6	1951.1	1935.9	1944.6	1946.7	1957.6	1964.1	1961.9
37.5°	1300.8	1656.2	1853.5	1866.5	1881.7	1862.2	1875.2	1881.7	1890.4	1886.1	1886.1
40°	1149.0	1524.0	1782.0	1790.7	1803.7	1788.5	1801.5	1805.9	1810.2	1805.9	1803.7
42.5°	1036.2	1378.7	1706.1	1717.0	1708.3	1719.1	1723.5	1732.2	1725.6	1717.0	1717.0
45°	949.5	1339.8	1623.7	1636.8	1623.7	1641.1	1647.6	1647.6	1628.1	1623.7	1621.6
47.5°	921.3	1261.7	1541.4	1541.4	1534.9	1556.6	1567.4	1552.2	1532.6	1526.2	1526.2
50°	919.2	1175.0	1428.6	1420.0	1450.3	1476.4	1465.5	1450.3	1435.1	1411.3	1411.3
52.5°	834.7	1068.8	1283.4	1315.9	1363.6	1378.7	1361.4	1346.3	1320.2	1309.4	1300.8
55°	773.9	958.2	1151.1	1216.2	1266.1	1285.5	1253.0	1237.9	1198.9	1192.4	1188.0
57.5°	760.9	797.8	1029.7	1112.2	1172.8	1170.7	1151.1	1122.9	1090.5	1084.0	1081.8
60°	698.1	576.6	899.7	997.2	1060.1	1053.6	1036.2	1010.3	979.9	975.6	971.2
62.5°	633.0	418.4	752.2	862.8	951.7	949.5	934.3	895.3	873.7	862.8	854.1
65°	537.7	351.2	535.5	717.6	845.5	849.8	817.3	789.1	765.3	752.2	750.1
67.5°	409.7	286.1	362.1	598.3	743.6	739.2	698.1	685.0	654.7	648.2	635.2
70°	303.5	190.8	251.5	485.6	643.8	633.0	600.5	585.3	557.1	541.9	533.3
72.5°	251.5	153.9	184.2	377.2	541.9	529.0	500.8	483.4	459.6	446.6	437.9
75°	203.8	162.6	140.9	279.6	440.0	431.4	405.4	388.0	368.6	351.2	353.4
77.5°	149.6	151.8	112.7	205.9	349.0	336.0	320.8	299.2	290.5	273.2	273.2
80°	112.7	119.2	84.6	140.9	251.5	251.5	238.5	223.3	208.2	199.4	199.4
82.5°	75.8	75.8	62.9	88.9	171.3	164.8	156.0	151.8	143.1	138.7	138.7
85°	34.7	43.4	39.0	54.2	93.2	97.5	97.5	93.2	91.1	86.7	88.9
87.5°	10.8	19.5	23.8	30.3	47.7	49.9	52.0	52.0	52.0	54.2	54.2
90°	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5	24.3	23.4
95°	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6	82.8	79.9
97.5°	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5	191.1	185.5
100°	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1	268.3	261.6
102.5°	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4	334.3	328.6
105°	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5	411.3	408.2
107.5°	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1	451.3	452.1
110°	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6	461.6	464.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3	455.0	459.9
115°	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9	432.8	439.6
117.5°	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2	402.1	409.6
120°	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2	381.5	388.9
122.5°	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4	360.9	368.1
125°	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2	333.5	340.2
127.5°	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6	311.6	317.2
130°	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0	297.7	302.9
132.5°	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9	285.9	290.5
135°	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3	269.2	273.2
137.5°	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0	256.9	260.2
140°	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1	247.0	250.1
142.5°	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4	240.1	242.7
145°	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0	229.7	231.6
147.5°	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2	221.0	222.6
150°	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9	215.9	217.3
152.5°	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2	212.0	213.0
155°	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1	207.2	207.9
157.5°	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3	203.1	203.6
160°	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0	201.1	201.3
162.5°	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7	199.2	199.4
165°	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7	196.2	196.4
167.5°	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3	194.9	195.0
170°	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3	194.9	194.9
172.5°	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6	193.9	193.8
175°	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7	192.5	192.5
177.5°	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6	192.3	192.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5
2.5°	2350.0	2343.5	2350.0	2345.6	2347.8	2341.3	2321.8	2315.3	2321.8	2328.3	2328.3
5°	2378.1	2373.8	2378.1	2378.1	2376.0	2371.7	2350.0	2345.6	2350.0	2352.2	2347.8
7.5°	2386.9	2380.4	2386.9	2382.5	2382.5	2378.1	2356.5	2352.2	2354.3	2360.8	2354.3
10°	2386.9	2380.4	2386.9	2384.6	2382.5	2378.1	2356.5	2347.8	2347.8	2354.3	2347.8
12.5°	2376.0	2371.7	2376.0	2371.7	2371.7	2367.3	2345.6	2337.0	2339.1	2341.3	2332.6
15°	2358.7	2352.2	2358.7	2354.3	2356.5	2350.0	2326.1	2317.4	2317.4	2321.8	2306.7
17.5°	2332.6	2324.0	2332.6	2330.5	2328.3	2324.0	2302.3	2293.6	2291.5	2293.6	2282.7
20°	2302.3	2295.8	2302.3	2300.1	2300.1	2291.5	2269.8	2258.9	2258.9	2258.9	2248.1
22.5°	2254.6	2248.1	2254.6	2258.9	2258.9	2256.8	2237.2	2222.1	2217.7	2217.7	2204.8
25°	2200.4	2193.9	2200.4	2200.4	2198.3	2200.4	2193.9	2185.2	2178.7	2172.2	2159.2
27.5°	2148.4	2144.0	2148.4	2144.0	2148.4	2141.9	2139.7	2137.5	2128.8	2122.3	2105.0
30°	2096.4	2092.0	2096.4	2092.0	2087.7	2083.3	2072.5	2068.2	2076.8	2072.5	2044.3
32.5°	2031.3	2026.9	2031.3	2031.3	2026.9	2026.9	2009.6	2003.1	2005.3	2018.3	1992.3
35°	1964.1	1957.6	1964.1	1961.9	1964.1	1957.6	1946.7	1944.6	1935.9	1951.1	1931.6
37.5°	1886.1	1879.5	1886.1	1886.1	1886.1	1890.4	1881.7	1875.2	1862.2	1881.7	1866.5
40°	1805.9	1797.2	1805.9	1803.7	1805.9	1810.2	1805.9	1801.5	1788.5	1803.7	1790.7
42.5°	1714.8	1712.6	1714.8	1717.0	1717.0	1725.6	1732.2	1723.5	1719.1	1708.3	1717.0
45°	1617.2	1612.9	1617.2	1621.6	1623.7	1628.1	1647.6	1647.6	1641.1	1623.7	1636.8
47.5°	1513.2	1502.3	1513.2	1526.2	1526.2	1532.6	1552.2	1567.4	1556.6	1534.9	1541.4
50°	1402.6	1404.8	1402.6	1411.3	1411.3	1435.1	1450.3	1465.5	1476.4	1450.3	1420.0
52.5°	1294.3	1292.0	1294.3	1300.8	1309.4	1320.2	1346.3	1361.4	1378.7	1363.6	1315.9
55°	1185.8	1190.1	1185.8	1188.0	1192.4	1198.9	1237.9	1253.0	1285.5	1266.1	1216.2
57.5°	1077.4	1070.9	1077.4	1081.8	1084.0	1090.5	1122.9	1151.1	1170.7	1172.8	1112.2
60°	951.7	943.0	951.7	971.2	975.6	979.9	1010.3	1036.2	1053.6	1060.1	997.2
62.5°	841.1	825.9	841.1	854.1	862.8	873.7	895.3	934.3	949.5	951.7	862.8
65°	724.0	717.6	724.0	750.1	752.2	765.3	789.1	817.3	849.8	845.5	717.6
67.5°	617.9	617.9	617.9	635.2	648.2	654.7	685.0	698.1	739.2	743.6	598.3
70°	520.2	518.1	520.2	533.3	541.9	557.1	585.3	600.5	633.0	643.8	485.6
72.5°	427.1	424.9	427.1	437.9	446.6	459.6	483.4	500.8	529.0	541.9	377.2
75°	344.7	340.4	344.7	353.4	351.2	368.6	388.0	405.4	431.4	440.0	279.6
77.5°	264.5	264.5	264.5	273.2	273.2	290.5	299.2	320.8	336.0	349.0	205.9
80°	197.3	195.1	197.3	199.4	199.4	208.2	223.3	238.5	251.5	251.5	140.9
82.5°	138.7	134.4	138.7	138.7	138.7	143.1	151.8	156.0	164.8	171.3	88.9
85°	86.7	86.7	86.7	88.9	86.7	91.1	93.2	97.5	97.5	93.2	54.2
87.5°	56.4	54.2	56.4	54.2	54.2	52.0	52.0	52.0	49.9	47.7	30.3
90°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4	5.6	3.6
92.5°	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3	34.8	24.8
95°	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6	85.7	48.3
97.5°	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6	115.4	53.0
100°	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6	126.2	57.0
102.5°	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8	131.2	61.0
105°	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5	134.9	66.9
107.5°	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5	135.6	75.6
110°	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6	134.5	80.5



TEST NUMBER: P934137

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8	134.5	86.4
115°	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9	135.8	95.2
117.5°	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3	138.3	103.8
120°	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5	140.4	108.8
122.5°	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5	143.3	114.7
125°	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7	147.3	122.3
127.5°	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2	151.3	129.6
130°	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5	154.2	134.4
132.5°	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7	156.6	138.5
135°	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6	159.1	143.1
137.5°	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7	163.0	149.0
140°	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8	165.4	153.0
142.5°	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4	167.2	155.9
145°	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4	169.9	160.4
147.5°	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7	173.6	166.0
150°	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4	175.6	169.0
152.5°	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8	176.9	170.9
155°	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8	179.7	175.2
157.5°	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7	182.5	179.4
160°	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1	183.8	181.3
162.5°	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6	185.2	183.4
165°	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2	187.1	186.3
167.5°	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6	188.7	188.0
170°	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0	190.0	189.9
172.5°	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3	190.8	191.2
177.5°	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5	190.9	191.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934137

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5
2.5°	2324.0	2310.9	2310.9	2289.3	2280.6	2274.1	2263.3	2230.7	2222.1	2213.4	2226.4
5°	2343.5	2319.6	2302.3	2263.3	2230.7	2217.7	2176.6	2098.5	2046.5	2007.5	1985.8
7.5°	2347.8	2317.4	2285.0	2224.2	2146.2	2111.5	1985.8	1842.7	1803.7	1769.0	1747.3
10°	2343.5	2308.8	2263.3	2172.2	1988.0	1927.3	1801.5	1708.3	1684.4	1677.9	1684.4
12.5°	2328.3	2295.8	2232.9	2081.2	1823.2	1782.0	1708.3	1654.1	1649.7	1660.6	1719.1
15°	2302.3	2271.9	2198.3	1959.8	1732.2	1701.8	1649.7	1630.3	1654.1	1730.0	1905.6
17.5°	2276.3	2241.6	2150.5	1840.6	1662.7	1641.1	1604.2	1643.3	1777.7	1879.5	1938.1
20°	2241.6	2200.4	2096.4	1753.8	1612.9	1593.4	1576.0	1751.6	1853.5	1890.4	1922.9
22.5°	2200.4	2157.0	2022.7	1693.1	1560.8	1545.7	1556.6	1812.4	1853.5	1879.5	1907.7
25°	2146.2	2109.4	1935.9	1645.4	1519.7	1502.3	1543.5	1805.9	1829.7	1836.2	1892.6
27.5°	2096.4	2048.6	1844.8	1602.1	1469.8	1463.3	1554.3	1777.7	1795.0	1801.5	1862.2
30°	2035.6	1964.1	1742.9	1556.6	1417.8	1415.6	1556.6	1742.9	1738.7	1756.0	1816.6
32.5°	1972.8	1838.3	1628.1	1500.2	1368.0	1365.8	1541.4	1690.9	1686.6	1710.5	1756.0
35°	1914.3	1740.8	1472.0	1435.1	1305.0	1307.2	1504.5	1630.3	1632.4	1654.1	1682.3
37.5°	1853.5	1656.2	1300.8	1363.6	1244.4	1244.4	1454.7	1573.9	1569.5	1576.0	1615.1
40°	1782.0	1524.0	1149.0	1270.3	1188.0	1181.5	1393.9	1513.2	1498.0	1495.8	1550.1
42.5°	1706.1	1378.7	1036.2	1146.8	1122.9	1114.3	1320.2	1439.5	1411.3	1417.8	1487.1
45°	1623.7	1339.8	949.5	969.0	1055.8	1049.2	1240.0	1354.9	1335.4	1352.8	1424.3
47.5°	1541.4	1261.7	921.3	804.2	984.2	982.1	1151.1	1272.6	1261.7	1279.1	1354.9
50°	1428.6	1175.0	919.2	689.4	904.0	912.6	1044.9	1192.4	1192.4	1207.5	1287.7
52.5°	1283.4	1068.8	834.7	624.4	810.8	836.8	951.7	1122.9	1127.3	1142.5	1214.0
55°	1151.1	958.2	773.9	574.5	700.2	756.6	860.6	1051.4	1060.1	1075.3	1140.3
57.5°	1029.7	797.8	760.9	516.0	598.3	652.6	780.4	982.1	986.3	999.4	1062.3
60°	899.7	576.6	698.1	453.1	509.5	550.7	706.7	899.7	914.9	923.5	977.7
62.5°	752.2	418.4	633.0	409.7	466.1	474.7	646.1	821.6	841.1	847.6	880.2
65°	535.5	351.2	537.7	372.9	420.6	422.7	581.0	741.4	758.7	769.6	793.5
67.5°	362.1	286.1	409.7	338.1	385.9	388.0	518.1	648.2	672.0	680.7	695.9
70°	251.5	190.8	303.5	301.3	346.9	351.2	450.9	563.6	585.3	591.8	600.5
72.5°	184.2	153.9	251.5	271.0	305.7	310.0	381.5	468.2	489.9	496.4	500.8
75°	140.9	162.6	203.8	236.3	260.2	262.3	312.2	381.5	396.7	401.1	403.2
77.5°	112.7	151.8	149.6	190.8	212.4	208.2	245.0	294.8	307.8	307.8	307.8
80°	84.6	119.2	112.7	136.6	156.0	151.8	175.6	210.3	214.6	218.9	216.8
82.5°	62.9	75.8	75.8	86.7	104.0	99.8	117.1	136.6	136.6	136.6	140.9
85°	39.0	43.4	34.7	45.5	58.5	56.4	65.0	73.7	75.8	75.8	71.6
87.5°	23.8	19.5	10.8	17.3	26.1	26.1	30.3	32.5	30.3	30.3	30.3
90°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5
95°	44.2	28.3	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6
97.5°	49.5	35.4	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5
100°	53.8	41.0	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1
102.5°	58.0	46.1	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4
105°	64.3	54.2	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5
107.5°	73.2	63.8	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1
110°	78.3	69.9	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6



TEST NUMBER: P934137

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.3	76.3	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3
115°	93.4	85.9	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9
117.5°	102.1	95.3	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2
120°	107.2	100.9	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2
122.5°	113.1	106.7	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4
125°	120.9	115.0	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2
127.5°	128.1	122.1	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6
130°	132.8	126.5	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0
132.5°	136.8	130.5	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9
135°	141.6	135.8	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3
137.5°	147.5	141.8	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0
140°	151.6	146.3	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1
142.5°	154.7	149.7	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4
145°	159.3	155.0	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0
147.5°	165.0	160.8	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2
150°	168.1	164.2	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9
152.5°	170.2	167.3	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2
155°	174.7	172.5	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1
157.5°	178.9	176.8	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3
160°	180.9	179.4	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0
162.5°	183.0	181.8	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7
165°	186.0	184.9	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7
167.5°	187.8	187.3	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3
170°	189.8	189.3	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3
172.5°	190.0	189.9	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6
175°	191.2	191.2	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7
177.5°	191.2	191.2	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934137

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5
2.5°	2211.3	2204.8	2213.4	2189.6	2213.4	2204.8	2211.3	2226.4	2213.4	2222.1	2230.7
5°	1940.2	1929.4	1894.7	1866.5	1894.7	1929.4	1940.2	1985.8	2007.5	2046.5	2098.5
7.5°	1734.3	1725.6	1717.0	1699.6	1717.0	1725.6	1734.3	1747.3	1769.0	1803.7	1842.7
10°	1688.8	1690.9	1704.0	1701.8	1704.0	1690.9	1688.8	1684.4	1677.9	1684.4	1708.3
12.5°	1805.9	1825.4	1896.9	1892.6	1896.9	1825.4	1805.9	1719.1	1660.6	1649.7	1654.1
15°	1940.2	1946.7	1961.9	1964.1	1961.9	1946.7	1940.2	1905.6	1730.0	1654.1	1630.3
17.5°	1953.2	1955.4	1966.3	1966.3	1966.3	1955.4	1953.2	1938.1	1879.5	1777.7	1643.3
20°	1942.5	1946.7	1968.4	1972.8	1968.4	1946.7	1942.5	1922.9	1890.4	1853.5	1751.6
22.5°	1938.1	1946.7	1964.1	1961.9	1964.1	1946.7	1938.1	1907.7	1879.5	1853.5	1812.4
25°	1916.4	1916.4	1918.5	1920.8	1918.5	1916.4	1916.4	1892.6	1836.2	1829.7	1805.9
27.5°	1870.9	1875.2	1888.2	1886.1	1888.2	1875.2	1870.9	1862.2	1801.5	1795.0	1777.7
30°	1829.7	1825.4	1814.5	1805.9	1814.5	1825.4	1829.7	1816.6	1756.0	1738.7	1742.9
32.5°	1760.4	1749.5	1738.7	1732.2	1738.7	1749.5	1760.4	1756.0	1710.5	1686.6	1690.9
35°	1677.9	1680.1	1677.9	1671.4	1677.9	1680.1	1677.9	1682.3	1654.1	1632.4	1630.3
37.5°	1619.4	1623.7	1621.6	1612.9	1621.6	1623.7	1619.4	1615.1	1576.0	1569.5	1573.9
40°	1558.7	1560.8	1558.7	1552.2	1558.7	1560.8	1558.7	1550.1	1495.8	1498.0	1513.2
42.5°	1500.2	1498.0	1491.5	1487.1	1491.5	1498.0	1500.2	1487.1	1417.8	1411.3	1439.5
45°	1433.0	1435.1	1422.1	1415.6	1422.1	1435.1	1433.0	1424.3	1352.8	1335.4	1354.9
47.5°	1365.8	1365.8	1354.9	1348.4	1354.9	1365.8	1365.8	1354.9	1279.1	1261.7	1272.6
50°	1294.3	1292.0	1276.9	1274.7	1276.9	1292.0	1294.3	1287.7	1207.5	1192.4	1192.4
52.5°	1211.8	1211.8	1214.0	1218.3	1214.0	1211.8	1211.8	1214.0	1142.5	1127.3	1122.9
55°	1140.3	1142.5	1157.7	1162.0	1157.7	1142.5	1140.3	1140.3	1075.3	1060.1	1051.4
57.5°	1066.6	1066.6	1077.4	1077.4	1077.4	1066.6	1066.6	1062.3	999.4	986.3	982.1
60°	982.1	986.3	995.1	992.9	995.1	986.3	982.1	977.7	923.5	914.9	899.7
62.5°	893.2	897.5	899.7	895.3	899.7	897.5	893.2	880.2	847.6	841.1	821.6
65°	800.0	804.2	806.5	802.1	806.5	804.2	800.0	793.5	769.6	758.7	741.4
67.5°	704.6	702.3	700.2	708.9	700.2	702.3	704.6	695.9	680.7	672.0	648.2
70°	607.0	607.0	604.8	609.2	604.8	607.0	607.0	600.5	591.8	585.3	563.6
72.5°	502.9	500.8	509.5	502.9	509.5	500.8	502.9	500.8	496.4	489.9	468.2
75°	401.1	405.4	401.1	407.6	401.1	405.4	401.1	403.2	401.1	396.7	381.5
77.5°	305.7	310.0	305.7	305.7	305.7	310.0	305.7	307.8	307.8	307.8	294.8
80°	216.8	214.6	214.6	212.4	214.6	214.6	216.8	216.8	218.9	214.6	210.3
82.5°	138.7	136.6	136.6	140.9	136.6	136.6	138.7	140.9	136.6	136.6	136.6
85°	75.8	78.1	73.7	73.7	73.7	78.1	75.8	71.6	75.8	75.8	73.7
87.5°	28.2	26.1	26.1	26.1	26.1	26.1	28.2	30.3	30.3	30.3	32.5
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4
92.5°	24.3	23.4	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3
95°	82.8	79.9	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6
97.5°	191.1	185.5	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6
100°	268.3	261.6	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6
102.5°	334.3	328.6	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8
105°	411.3	408.2	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5
107.5°	451.3	452.1	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5
110°	461.6	464.7	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	455.0	459.9	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8
115°	432.8	439.6	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9
117.5°	402.1	409.6	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3
120°	381.5	388.9	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5
122.5°	360.9	368.1	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5
125°	333.5	340.2	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7
127.5°	311.6	317.2	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2
130°	297.7	302.9	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5
132.5°	285.9	290.5	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7
135°	269.2	273.2	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6
137.5°	256.9	260.2	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7
140°	247.0	250.1	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8
142.5°	240.1	242.7	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4
145°	229.7	231.6	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4
147.5°	221.0	222.6	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7
150°	215.9	217.3	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4
152.5°	212.0	213.0	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8
155°	207.2	207.9	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8
157.5°	203.1	203.6	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7
160°	201.1	201.3	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1
162.5°	199.2	199.4	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6
165°	196.2	196.4	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2
167.5°	194.9	195.0	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6
170°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0
172.5°	193.9	193.8	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3
177.5°	192.3	192.2	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2291.5	2291.5	2291.5	2291.5	2291.5
2.5°	2263.3	2274.1	2280.6	2289.3	2310.9
5°	2176.6	2217.7	2230.7	2263.3	2302.3
7.5°	1985.8	2111.5	2146.2	2224.2	2285.0
10°	1801.5	1927.3	1988.0	2172.2	2263.3
12.5°	1708.3	1782.0	1823.2	2081.2	2232.9
15°	1649.7	1701.8	1732.2	1959.8	2198.3
17.5°	1604.2	1641.1	1662.7	1840.6	2150.5
20°	1576.0	1593.4	1612.9	1753.8	2096.4
22.5°	1556.6	1545.7	1560.8	1693.1	2022.7
25°	1543.5	1502.3	1519.7	1645.4	1935.9
27.5°	1554.3	1463.3	1469.8	1602.1	1844.8
30°	1556.6	1415.6	1417.8	1556.6	1742.9
32.5°	1541.4	1365.8	1368.0	1500.2	1628.1
35°	1504.5	1307.2	1305.0	1435.1	1472.0
37.5°	1454.7	1244.4	1244.4	1363.6	1300.8
40°	1393.9	1181.5	1188.0	1270.3	1149.0
42.5°	1320.2	1114.3	1122.9	1146.8	1036.2
45°	1240.0	1049.2	1055.8	969.0	949.5
47.5°	1151.1	982.1	984.2	804.2	921.3
50°	1044.9	912.6	904.0	689.4	919.2
52.5°	951.7	836.8	810.8	624.4	834.7
55°	860.6	756.6	700.2	574.5	773.9
57.5°	780.4	652.6	598.3	516.0	760.9
60°	706.7	550.7	509.5	453.1	698.1
62.5°	646.1	474.7	466.1	409.7	633.0
65°	581.0	422.7	420.6	372.9	537.7
67.5°	518.1	388.0	385.9	338.1	409.7
70°	450.9	351.2	346.9	301.3	303.5
72.5°	381.5	310.0	305.7	271.0	251.5
75°	312.2	262.3	260.2	236.3	203.8
77.5°	245.0	208.2	212.4	190.8	149.6
80°	175.6	151.8	156.0	136.6	112.7
82.5°	117.1	99.8	104.0	86.7	75.8
85°	65.0	56.4	58.5	45.5	34.7
87.5°	30.3	26.1	26.1	17.3	10.8
90°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.8	22.5	13.8	5.1
95°	85.7	48.3	44.2	28.3	12.3
97.5°	115.4	53.0	49.5	35.4	21.3
100°	126.2	57.0	53.8	41.0	28.3
102.5°	131.2	61.0	58.0	46.1	34.2
105°	134.9	66.9	64.3	54.2	44.2
107.5°	135.6	75.6	73.2	63.8	54.4
110°	134.5	80.5	78.3	69.9	61.3



TEST NUMBER: P934137

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.5	86.4	84.3	76.3	68.2
115°	135.8	95.2	93.4	85.9	78.4
117.5°	138.3	103.8	102.1	95.3	88.6
120°	140.4	108.8	107.2	100.9	94.5
122.5°	143.3	114.7	113.1	106.7	100.2
125°	147.3	122.3	120.9	115.0	109.1
127.5°	151.3	129.6	128.1	122.1	116.2
130°	154.2	134.4	132.8	126.5	120.1
132.5°	156.6	138.5	136.8	130.5	124.1
135°	159.1	143.1	141.6	135.8	130.0
137.5°	163.0	149.0	147.5	141.8	136.1
140°	165.4	153.0	151.6	146.3	141.0
142.5°	167.2	155.9	154.7	149.7	144.9
145°	169.9	160.4	159.3	155.0	150.8
147.5°	173.6	166.0	165.0	160.8	156.6
150°	175.6	169.0	168.1	164.2	160.5
152.5°	176.9	170.9	170.2	167.3	164.5
155°	179.7	175.2	174.7	172.5	170.4
157.5°	182.5	179.4	178.9	176.8	174.8
160°	183.8	181.3	180.9	179.4	177.7
162.5°	185.2	183.4	183.0	181.8	180.6
165°	187.1	186.3	186.0	184.9	183.9
167.5°	188.7	188.0	187.8	187.3	186.8
170°	190.0	189.9	189.8	189.3	188.8
172.5°	190.0	190.0	190.0	189.9	189.8
175°	190.8	191.2	191.2	191.2	191.2
177.5°	190.9	191.2	191.2	191.2	191.2
180°	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934137
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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	16.63	17.88	17.24	18.51	19.22	19.45	20.71	20.06	21.33	22.05
	3H	17.13	18.26	17.76	18.90	19.65	20.82	21.96	21.45	22.59	23.34
	4H	17.34	18.41	17.99	19.06	19.82	21.28	22.35	21.93	23.00	23.76
	6H	17.48	18.47	18.14	19.12	19.90	21.59	22.57	22.25	23.23	24.01
	8H	17.49	18.43	18.17	19.11	19.89	21.67	22.61	22.35	23.29	24.07
	12H	17.48	18.37	18.16	19.05	19.85	21.72	22.62	22.40	23.29	24.10
4H	2H	17.70	18.77	18.35	19.42	20.18	19.91	20.97	20.56	21.62	22.38
	3H	18.77	19.66	19.43	20.34	21.12	21.45	22.34	22.11	23.02	23.80
	4H	19.06	19.87	19.74	20.56	21.37	21.99	22.80	22.67	23.49	24.30
	6H	19.21	19.91	19.91	20.62	21.44	22.38	23.08	23.08	23.79	24.61
	8H	19.22	19.88	19.93	20.59	21.42	22.49	23.15	23.20	23.86	24.69
	12H	19.21	19.80	19.93	20.53	21.37	22.57	23.15	23.29	23.89	24.73
8H	4H	19.54	20.20	20.25	20.91	21.74	22.15	22.80	22.85	23.51	24.35
	6H	19.82	20.36	20.56	21.12	21.96	22.60	23.14	23.33	23.90	24.73
	8H	19.87	20.35	20.62	21.11	21.96	22.75	23.24	23.50	24.00	24.85
	12H	19.87	20.30	20.62	21.04	21.96	22.87	23.29	23.62	24.04	24.95
12H	4H	19.57	20.16	20.29	20.89	21.73	22.13	22.72	22.86	23.46	24.29
	6H	19.88	20.37	20.63	21.13	21.98	22.60	23.08	23.35	23.84	24.69
	8H	19.97	20.40	20.72	21.14	22.06	22.78	23.20	23.53	23.95	24.86