

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: P934066

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

**Test Information**

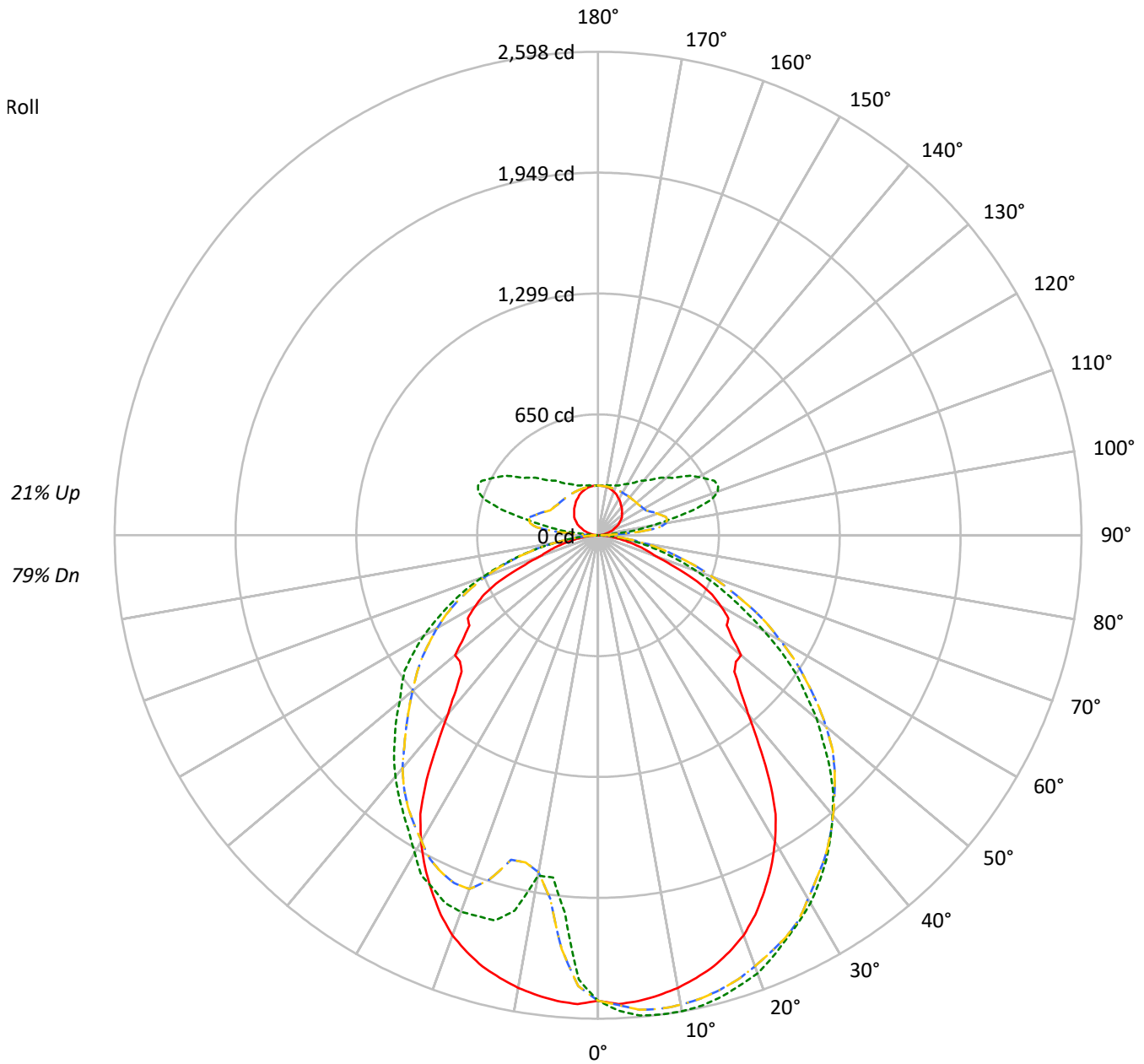
Test Method: LM-79-2019  
Report Number: P934066  
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8217.2 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 77.6  
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

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

	0°	90°	180°	270°
0°	11602	11602	11602	11602
5°	11689	11712	11689	9209
10°	11611	11537	11611	8248
15°	11485	11287	11485	9425
20°	11245	10991	11245	9445
25°	10753	10559	10753	9244
30°	10117	10200	10117	8805
35°	9020	9747	9020	8322
40°	7516	9213	7516	7957
45°	6715	8588	6715	7538
50°	7134	7842	7134	7116
55°	6712	7039	6712	6873
60°	6919	5979	6919	6295
65°	6273	4942	6273	5524
70°	4344	3939	4344	4631
75°	3809	2912	3809	3487
80°	3069	1925	3069	2096
85°	1765	1019	1765	866

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10292 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.7	2.7
10°-20°	640.9	7.8
20°-30°	990.7	12.1
30°-40°	1182.7	14.4
40°-50°	1189.7	14.5
50°-60°	1035.1	12.6
60°-70°	733.9	8.9
70°-80°	388.3	4.7
80°-90°	97.7	1.2
90°-100°	130.2	1.6
100°-110°	342.5	4.2
110°-120°	355.1	4.3
120°-130°	284.8	3.5
130°-140°	223.5	2.7
140°-150°	171.5	2.1
150°-160°	123.5	1.5
160°-170°	75.6	0.9
170°-180°	25.5	0.3
0°-30°	1857.4	22.6
0°-40°	3040.1	37.0
0°-60°	5264.9	64.1
0°-90°	6484.9	78.9
90°-120°	827.8	10.1
90°-150°	1507.7	18.3
90°-180°	1732.0	21.1
0°-180°	8217.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2501	2501	2501	2501	2501	
5°	2512	2591	2512	2037	2512	238
15°	2399	2567	2399	2144	2399	675
25°	2113	2394	2113	2096	2113	970
35°	1606	2136	1606	1824	1606	994
45°	1036	1760	1036	1545	1036	830
55°	845	1299	845	1268	845	776
65°	587	783	587	875	587	561
75°	222	372	222	445	222	234
85°	38	95	38	80	38	51
90°	2	7	2	7	2	3
95°	17	79	17	79	17	19
105°	62	536	62	536	62	65
115°	110	690	110	690	110	108
125°	152	550	152	550	152	135
135°	182	427	182	427	182	141
145°	211	346	211	346	211	132
155°	238	298	238	298	238	109
165°	257	278	257	278	257	73
175°	267	269	267	269	267	25
180°	267	267	267	267	267	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2522.0	2522.0	2536.2	2540.9	2540.9	2533.8	2526.7	2533.8	2555.1	2562.2	2559.9
5°	2512.5	2531.4	2557.5	2562.2	2566.9	2564.5	2559.9	2564.5	2588.3	2593.0	2595.3
7.5°	2493.6	2529.1	2562.2	2569.3	2576.4	2569.3	2566.9	2571.7	2595.3	2600.1	2600.1
10°	2469.9	2519.6	2557.5	2562.2	2569.3	2562.2	2562.2	2571.7	2595.3	2600.1	2602.4
12.5°	2436.8	2505.4	2540.9	2545.6	2555.1	2552.7	2550.4	2559.9	2583.5	2588.3	2588.3
15°	2399.0	2479.4	2512.5	2517.3	2533.8	2529.1	2529.1	2538.6	2564.5	2571.7	2569.3
17.5°	2346.9	2446.3	2484.1	2491.2	2503.0	2500.7	2503.0	2512.5	2536.2	2540.9	2543.3
20°	2287.8	2401.3	2446.3	2453.3	2465.2	2465.2	2465.2	2477.1	2500.7	2510.2	2510.2
22.5°	2207.3	2354.0	2401.3	2406.1	2420.2	2420.2	2425.0	2441.5	2462.8	2465.2	2465.2
25°	2112.7	2301.9	2342.1	2356.4	2370.6	2377.7	2384.8	2394.2	2401.3	2399.0	2401.3
27.5°	2013.3	2235.7	2287.8	2297.2	2316.2	2323.2	2332.7	2335.1	2337.5	2344.6	2339.8
30°	1902.1	2143.5	2221.5	2231.0	2261.7	2266.5	2257.0	2261.7	2273.6	2278.3	2283.0
32.5°	1776.7	2006.2	2153.0	2174.2	2202.6	2188.4	2186.0	2193.2	2212.0	2212.0	2216.8
35°	1606.4	1899.8	2089.0	2107.9	2129.2	2112.7	2122.2	2124.5	2136.4	2143.5	2141.0
37.5°	1419.5	1807.5	2022.8	2037.0	2053.6	2032.3	2046.4	2053.6	2063.0	2058.3	2058.3
40°	1253.9	1663.2	1944.7	1954.2	1968.3	1951.8	1966.0	1970.8	1975.5	1970.8	1968.3
42.5°	1130.9	1504.7	1861.9	1873.7	1864.3	1876.1	1880.9	1890.3	1883.2	1873.7	1873.7
45°	1036.2	1462.0	1772.0	1786.2	1772.0	1791.0	1798.1	1798.1	1776.7	1772.0	1769.7
47.5°	1005.5	1376.9	1682.1	1682.1	1675.0	1698.7	1710.5	1693.9	1672.6	1665.5	1665.5
50°	1003.1	1282.3	1559.1	1549.6	1582.7	1611.1	1599.3	1582.7	1566.2	1540.1	1540.1
52.5°	910.9	1166.3	1400.5	1436.1	1488.1	1504.7	1485.8	1469.2	1440.8	1429.0	1419.5
55°	844.6	1045.7	1256.3	1327.2	1381.6	1403.0	1367.4	1350.9	1308.3	1301.2	1296.5
57.5°	830.4	870.6	1123.8	1213.7	1279.9	1277.5	1256.3	1225.5	1190.0	1182.9	1180.6
60°	761.8	629.3	981.8	1088.3	1156.9	1149.8	1130.9	1102.5	1069.4	1064.6	1059.9
62.5°	690.8	456.6	820.9	941.6	1038.6	1036.2	1019.7	977.1	953.4	941.6	932.1
65°	586.7	383.3	584.4	783.1	922.7	927.4	891.9	861.2	835.1	820.9	818.6
67.5°	447.1	312.3	395.1	653.0	811.5	806.8	761.8	747.6	714.5	707.4	693.2
70°	331.2	208.2	274.4	529.9	702.6	690.8	655.4	638.8	608.0	591.4	582.0
72.5°	274.4	168.0	201.1	411.7	591.4	577.3	546.5	527.6	501.6	487.3	477.9
75°	222.4	177.5	153.8	305.2	480.2	470.8	442.4	423.5	402.2	383.3	385.6
77.5°	163.2	165.6	123.0	224.7	380.9	366.7	350.2	326.5	317.0	298.1	298.1
80°	123.0	130.1	92.3	153.8	274.4	274.4	260.3	243.7	227.1	217.7	217.7
82.5°	82.8	82.8	68.6	97.0	186.9	179.8	170.4	165.6	156.1	151.4	151.4
85°	37.9	47.3	42.6	59.2	101.7	106.5	106.5	101.7	99.4	94.6	97.0
87.5°	11.8	21.3	26.1	33.1	52.0	54.4	56.8	56.8	56.8	59.2	59.2
90°	1.8	3.2	4.7	5.0	7.9	11.7	13.6	12.1	9.0	6.8	6.8
92.5°	7.2	19.3	31.6	34.6	48.7	67.4	76.7	67.2	48.3	34.1	32.8
95°	17.2	39.5	61.9	67.4	119.7	189.4	224.4	200.2	151.9	115.7	111.6
97.5°	29.8	49.5	69.1	74.0	161.2	277.5	335.7	320.5	290.0	267.1	259.3
100°	39.5	57.3	75.1	79.6	176.4	305.4	369.9	371.1	373.3	375.0	365.7
102.5°	47.7	64.4	81.0	85.1	183.4	314.3	379.7	399.1	438.0	467.2	459.2
105°	61.7	75.8	90.0	93.5	188.6	315.2	378.6	422.2	509.4	574.8	570.5
107.5°	76.0	89.2	102.3	105.6	189.4	301.2	357.1	417.8	539.5	630.7	631.8
110°	85.8	97.6	109.5	112.5	188.0	288.7	339.1	407.1	543.1	645.1	649.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.3	106.5	117.8	120.7	188.1	277.9	322.8	392.4	531.5	635.9	642.8
115°	109.6	120.0	130.4	133.0	189.8	265.5	303.2	370.3	504.4	605.0	614.5
117.5°	123.7	133.2	142.7	145.1	193.4	257.7	289.8	350.3	471.3	562.1	572.6
120°	132.0	140.9	149.9	152.1	196.3	255.1	284.4	339.7	450.3	533.2	543.4
122.5°	140.0	149.1	158.1	160.4	200.4	253.6	280.3	330.1	429.7	504.3	514.4
125°	152.5	160.7	168.9	170.9	205.9	252.6	275.8	318.1	402.7	466.1	475.4
127.5°	162.5	170.7	179.1	181.1	211.5	251.9	272.1	308.4	381.0	435.5	443.4
130°	167.9	176.8	185.7	187.9	215.5	252.3	270.7	303.0	367.6	416.1	423.3
132.5°	173.4	182.4	191.2	193.5	218.8	252.6	269.4	298.3	356.2	399.6	406.1
135°	181.7	189.8	198.0	200.0	222.4	252.3	267.3	291.5	339.9	376.3	381.9
137.5°	190.1	198.1	206.2	208.2	227.8	253.8	266.9	287.4	328.3	359.0	363.6
140°	197.1	204.5	211.9	213.8	231.1	254.1	265.6	283.4	318.7	345.2	349.5
142.5°	202.5	209.3	216.2	217.9	233.9	255.1	265.6	281.2	312.3	335.6	339.2
145°	210.8	216.8	222.7	224.2	237.4	255.1	263.8	276.6	302.0	321.1	323.8
147.5°	219.0	224.8	230.6	232.1	242.6	256.8	263.8	273.9	293.8	308.8	311.1
150°	224.4	229.6	234.8	236.2	245.4	257.7	263.8	272.3	289.2	301.8	303.7
152.5°	229.9	233.9	237.9	238.9	247.2	258.3	263.8	271.0	285.4	296.3	297.7
155°	238.2	241.1	244.1	244.8	251.1	259.6	263.8	269.6	281.0	289.6	290.5
157.5°	244.2	247.1	250.0	250.7	255.1	260.9	263.8	268.3	277.2	283.9	284.5
160°	248.4	250.6	252.8	253.4	256.9	261.5	263.8	267.7	275.3	281.0	281.4
162.5°	252.5	254.2	255.8	256.2	258.7	262.1	263.8	267.1	273.5	278.4	278.7
165°	257.0	258.6	260.1	260.4	261.6	263.1	263.8	266.2	270.7	274.2	274.6
167.5°	261.2	261.9	262.6	262.8	263.8	265.0	265.6	267.2	270.2	272.4	272.6
170°	263.8	264.6	265.3	265.5	265.5	265.6	265.6	267.2	270.2	272.4	272.4
172.5°	265.3	265.5	265.6	265.6	265.6	265.6	265.6	266.8	269.2	271.0	270.8
175°	267.3	267.3	267.3	267.3	266.7	266.0	265.6	266.4	267.9	269.0	269.0
177.5°	267.3	267.3	267.3	267.3	266.8	266.3	266.0	266.6	267.8	268.7	268.5
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2564.5	2557.5	2564.5	2559.9	2562.2	2555.1	2533.8	2526.7	2533.8	2540.9	2540.9
5°	2595.3	2590.6	2595.3	2595.3	2593.0	2588.3	2564.5	2559.9	2564.5	2566.9	2562.2
7.5°	2604.8	2597.7	2604.8	2600.1	2600.1	2595.3	2571.7	2566.9	2569.3	2576.4	2569.3
10°	2604.8	2597.7	2604.8	2602.4	2600.1	2595.3	2571.7	2562.2	2562.2	2569.3	2562.2
12.5°	2593.0	2588.3	2593.0	2588.3	2588.3	2583.5	2559.9	2550.4	2552.7	2555.1	2545.6
15°	2574.0	2566.9	2574.0	2569.3	2571.7	2564.5	2538.6	2529.1	2529.1	2533.8	2517.3
17.5°	2545.6	2536.2	2545.6	2543.3	2540.9	2536.2	2512.5	2503.0	2500.7	2503.0	2491.2
20°	2512.5	2505.4	2512.5	2510.2	2510.2	2500.7	2477.1	2465.2	2465.2	2465.2	2453.3
22.5°	2460.5	2453.3	2460.5	2465.2	2465.2	2462.8	2441.5	2425.0	2420.2	2420.2	2406.1
25°	2401.3	2394.2	2401.3	2401.3	2399.0	2401.3	2394.2	2384.8	2377.7	2370.6	2356.4
27.5°	2344.6	2339.8	2344.6	2339.8	2344.6	2337.5	2335.1	2332.7	2323.2	2316.2	2297.2
30°	2287.8	2283.0	2287.8	2283.0	2278.3	2273.6	2261.7	2257.0	2266.5	2261.7	2231.0
32.5°	2216.8	2212.0	2216.8	2216.8	2212.0	2212.0	2193.2	2186.0	2188.4	2202.6	2174.2
35°	2143.5	2136.4	2143.5	2141.0	2143.5	2136.4	2124.5	2122.2	2112.7	2129.2	2107.9
37.5°	2058.3	2051.2	2058.3	2058.3	2058.3	2063.0	2053.6	2046.4	2032.3	2053.6	2037.0
40°	1970.8	1961.3	1970.8	1968.3	1970.8	1975.5	1970.8	1966.0	1951.8	1968.3	1954.2
42.5°	1871.4	1869.1	1871.4	1873.7	1873.7	1883.2	1890.3	1880.9	1876.1	1864.3	1873.7
45°	1764.9	1760.2	1764.9	1769.7	1772.0	1776.7	1798.1	1798.1	1791.0	1772.0	1786.2
47.5°	1651.3	1639.5	1651.3	1665.5	1665.5	1672.6	1693.9	1710.5	1698.7	1675.0	1682.1
50°	1530.7	1533.0	1530.7	1540.1	1540.1	1566.2	1582.7	1599.3	1611.1	1582.7	1549.6
52.5°	1412.4	1410.0	1412.4	1419.5	1429.0	1440.8	1469.2	1485.8	1504.7	1488.1	1436.1
55°	1294.1	1298.8	1294.1	1296.5	1301.2	1308.3	1350.9	1367.4	1403.0	1381.6	1327.2
57.5°	1175.8	1168.7	1175.8	1180.6	1182.9	1190.0	1225.5	1256.3	1277.5	1279.9	1213.7
60°	1038.6	1029.2	1038.6	1059.9	1064.6	1069.4	1102.5	1130.9	1149.8	1156.9	1088.3
62.5°	918.0	901.4	918.0	932.1	941.6	953.4	977.1	1019.7	1036.2	1038.6	941.6
65°	790.2	783.1	790.2	818.6	820.9	835.1	861.2	891.9	927.4	922.7	783.1
67.5°	674.3	674.3	674.3	693.2	707.4	714.5	747.6	761.8	806.8	811.5	653.0
70°	567.8	565.5	567.8	582.0	591.4	608.0	638.8	655.4	690.8	702.6	529.9
72.5°	466.1	463.7	466.1	477.9	487.3	501.6	527.6	546.5	577.3	591.4	411.7
75°	376.2	371.5	376.2	385.6	383.3	402.2	423.5	442.4	470.8	480.2	305.2
77.5°	288.6	288.6	288.6	298.1	298.1	317.0	326.5	350.2	366.7	380.9	224.7
80°	215.3	212.9	215.3	217.7	217.7	227.1	243.7	260.3	274.4	274.4	153.8
82.5°	151.4	146.7	151.4	151.4	151.4	156.1	165.6	170.4	179.8	186.9	97.0
85°	94.6	94.6	94.6	97.0	94.6	99.4	101.7	106.5	106.5	101.7	59.2
87.5°	61.5	59.2	61.5	59.2	59.2	56.8	56.8	56.8	54.4	52.0	33.1
90°	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7	7.9	5.0
92.5°	27.3	21.8	27.3	32.8	34.1	48.3	67.2	76.7	67.4	48.7	34.6
95°	95.2	78.7	95.2	111.6	115.7	151.9	200.2	224.4	189.4	119.7	67.4
97.5°	227.9	196.7	227.9	259.3	267.1	290.0	320.5	335.7	277.5	161.2	74.0
100°	328.5	291.2	328.5	365.7	375.0	373.3	371.1	369.9	305.4	176.4	79.6
102.5°	427.3	395.5	427.3	459.2	467.2	438.0	399.1	379.7	314.3	183.4	85.1
105°	553.4	536.2	553.4	570.5	574.8	509.4	422.2	378.6	315.2	188.6	93.5
107.5°	635.9	640.1	635.9	631.8	630.7	539.5	417.8	357.1	301.2	189.4	105.6
110°	667.4	685.3	667.4	649.5	645.1	543.1	407.1	339.1	288.7	188.0	112.5





TEST NUMBER: P934066

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	670.2	697.6	670.2	642.8	635.9	531.5	392.4	322.8	277.9	188.1	120.7
115°	652.5	690.5	652.5	614.5	605.0	504.4	370.3	303.2	265.5	189.8	133.0
117.5°	614.8	657.0	614.8	572.6	562.1	471.3	350.3	289.8	257.7	193.4	145.1
120°	584.4	625.4	584.4	543.4	533.2	450.3	339.7	284.4	255.1	196.3	152.1
122.5°	554.8	595.2	554.8	514.4	504.3	429.7	330.1	280.3	253.6	200.4	160.4
125°	512.7	549.9	512.7	475.4	466.1	402.7	318.1	275.8	252.6	205.9	170.9
127.5°	474.7	506.1	474.7	443.4	435.5	381.0	308.4	272.1	251.9	211.5	181.1
130°	452.3	481.3	452.3	423.3	416.1	367.6	303.0	270.7	252.3	215.5	187.9
132.5°	432.1	458.0	432.1	406.1	399.6	356.2	298.3	269.4	252.6	218.8	193.5
135°	404.2	426.6	404.2	381.9	376.3	339.9	291.5	267.3	252.3	222.4	200.0
137.5°	381.9	400.3	381.9	363.6	359.0	328.3	287.4	266.9	253.8	227.8	208.2
140°	366.6	383.8	366.6	349.5	345.2	318.7	283.4	265.6	254.1	231.1	213.8
142.5°	354.0	368.7	354.0	339.2	335.6	312.3	281.2	265.6	255.1	233.9	217.9
145°	335.0	346.1	335.0	323.8	321.1	302.0	276.6	263.8	255.1	237.4	224.2
147.5°	320.3	329.7	320.3	311.1	308.8	293.8	273.9	263.8	256.8	242.6	232.1
150°	311.2	318.7	311.2	303.7	301.8	289.2	272.3	263.8	257.7	245.4	236.2
152.5°	303.3	309.0	303.3	297.7	296.3	285.4	271.0	263.8	258.3	247.2	238.9
155°	294.3	298.0	294.3	290.5	289.6	281.0	269.6	263.8	259.6	251.1	244.8
157.5°	287.2	289.8	287.2	284.5	283.9	277.2	268.3	263.8	260.9	255.1	250.7
160°	282.9	284.4	282.9	281.4	281.0	275.3	267.7	263.8	261.5	256.9	253.4
162.5°	280.1	281.6	280.1	278.7	278.4	273.5	267.1	263.8	262.1	258.7	256.2
165°	276.1	277.6	276.1	274.6	274.2	270.7	266.2	263.8	263.1	261.6	260.4
167.5°	273.2	273.9	273.2	272.6	272.4	270.2	267.2	265.6	265.0	263.8	262.8
170°	272.4	272.4	272.4	272.4	272.4	270.2	267.2	265.6	265.6	265.5	265.5
172.5°	270.3	269.8	270.3	270.8	271.0	269.2	266.8	265.6	265.6	265.6	265.6
175°	269.0	269.0	269.0	269.0	269.0	267.9	266.4	265.6	266.0	266.7	267.3
177.5°	267.9	267.3	267.9	268.5	268.7	267.8	266.6	266.0	266.3	266.8	267.3
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934066

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2536.2	2522.0	2522.0	2498.4	2488.9	2481.8	2469.9	2434.4	2425.0	2415.6	2429.7
5°	2557.5	2531.4	2512.5	2469.9	2434.4	2420.2	2375.3	2290.1	2233.4	2190.7	2167.1
7.5°	2562.2	2529.1	2493.6	2427.4	2342.1	2304.4	2167.1	2011.0	1968.3	1930.6	1906.8
10°	2557.5	2519.6	2469.9	2370.6	2169.4	2103.3	1966.0	1864.3	1838.3	1831.2	1838.3
12.5°	2540.9	2505.4	2436.8	2271.2	1989.7	1944.7	1864.3	1805.1	1800.4	1812.2	1876.1
15°	2512.5	2479.4	2399.0	2138.7	1890.3	1857.1	1800.4	1779.1	1805.1	1887.9	2079.5
17.5°	2484.1	2446.3	2346.9	2008.6	1814.6	1791.0	1750.7	1793.3	1940.0	2051.2	2115.1
20°	2446.3	2401.3	2287.8	1914.0	1760.2	1738.9	1720.0	1911.6	2022.8	2063.0	2098.5
22.5°	2401.3	2354.0	2207.3	1847.7	1703.4	1686.9	1698.7	1977.8	2022.8	2051.2	2082.0
25°	2342.1	2301.9	2112.7	1795.6	1658.5	1639.5	1684.4	1970.8	1996.7	2003.9	2065.4
27.5°	2287.8	2235.7	2013.3	1748.4	1604.0	1597.0	1696.3	1940.0	1958.9	1966.0	2032.3
30°	2221.5	2143.5	1902.1	1698.7	1547.3	1544.9	1698.7	1902.1	1897.4	1916.3	1982.6
32.5°	2153.0	2006.2	1776.7	1637.2	1492.8	1490.5	1682.1	1845.3	1840.6	1866.6	1916.3
35°	2089.0	1899.8	1606.4	1566.2	1424.3	1426.6	1641.9	1779.1	1781.5	1805.1	1835.9
37.5°	2022.8	1807.5	1419.5	1488.1	1358.0	1358.0	1587.5	1717.6	1712.9	1720.0	1762.5
40°	1944.7	1663.2	1253.9	1386.4	1296.5	1289.3	1521.2	1651.3	1634.8	1632.4	1691.6
42.5°	1861.9	1504.7	1130.9	1251.6	1225.5	1216.0	1440.8	1570.9	1540.1	1547.3	1622.9
45°	1772.0	1462.0	1036.2	1057.5	1152.2	1145.1	1353.3	1478.6	1457.4	1476.3	1554.4
47.5°	1682.1	1376.9	1005.5	877.8	1074.1	1071.7	1256.3	1388.7	1376.9	1395.9	1478.6
50°	1559.1	1282.3	1003.1	752.3	986.5	996.0	1140.4	1301.2	1301.2	1317.8	1405.3
52.5°	1400.5	1166.3	910.9	681.3	884.8	913.2	1038.6	1225.5	1230.2	1246.8	1324.9
55°	1256.3	1045.7	844.6	627.0	764.1	825.7	939.3	1147.4	1156.9	1173.5	1244.4
57.5°	1123.8	870.6	830.4	563.1	653.0	712.1	851.7	1071.7	1076.4	1090.7	1159.2
60°	981.8	629.3	761.8	494.5	556.0	600.9	771.2	981.8	998.4	1007.9	1067.0
62.5°	820.9	456.6	690.8	447.1	508.6	518.1	705.1	896.7	918.0	925.0	960.5
65°	584.4	383.3	586.7	406.9	458.9	461.4	634.1	809.1	828.1	839.9	865.9
67.5°	395.1	312.3	447.1	369.0	421.2	423.5	565.5	707.4	733.4	742.8	759.4
70°	274.4	208.2	331.2	328.8	378.5	383.3	492.1	615.1	638.8	645.9	655.4
72.5°	201.1	168.0	274.4	295.7	333.6	338.3	416.4	511.0	534.7	541.8	546.5
75°	153.8	177.5	222.4	257.8	283.9	286.2	340.7	416.4	433.0	437.7	440.0
77.5°	123.0	165.6	163.2	208.2	231.9	227.1	267.3	321.8	335.9	335.9	335.9
80°	92.3	130.1	123.0	149.1	170.4	165.6	191.6	229.5	234.2	239.0	236.5
82.5°	68.6	82.8	82.8	94.6	113.5	108.9	127.8	149.1	149.1	149.1	153.8
85°	42.6	47.3	37.9	49.7	63.8	61.5	71.0	80.4	82.8	82.8	78.1
87.5°	26.1	21.3	11.8	18.9	28.4	28.4	33.1	35.5	33.1	33.1	33.1
90°	4.7	3.2	1.8	3.2	4.7	5.0	7.9	11.7	13.6	12.1	9.0
92.5°	31.6	19.3	7.2	19.3	31.6	34.6	48.7	67.4	76.7	67.2	48.3
95°	61.9	39.5	17.2	39.5	61.9	67.4	119.7	189.4	224.4	200.2	151.9
97.5°	69.1	49.5	29.8	49.5	69.1	74.0	161.2	277.5	335.7	320.5	290.0
100°	75.1	57.3	39.5	57.3	75.1	79.6	176.4	305.4	369.9	371.1	373.3
102.5°	81.0	64.4	47.7	64.4	81.0	85.1	183.4	314.3	379.7	399.1	438.0
105°	90.0	75.8	61.7	75.8	90.0	93.5	188.6	315.2	378.6	422.2	509.4
107.5°	102.3	89.2	76.0	89.2	102.3	105.6	189.4	301.2	357.1	417.8	539.5
110°	109.5	97.6	85.8	97.6	109.5	112.5	188.0	288.7	339.1	407.1	543.1



TEST NUMBER: P934066

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	117.8	106.5	95.3	106.5	117.8	120.7	188.1	277.9	322.8	392.4	531.5
115°	130.4	120.0	109.6	120.0	130.4	133.0	189.8	265.5	303.2	370.3	504.4
117.5°	142.7	133.2	123.7	133.2	142.7	145.1	193.4	257.7	289.8	350.3	471.3
120°	149.9	140.9	132.0	140.9	149.9	152.1	196.3	255.1	284.4	339.7	450.3
122.5°	158.1	149.1	140.0	149.1	158.1	160.4	200.4	253.6	280.3	330.1	429.7
125°	168.9	160.7	152.5	160.7	168.9	170.9	205.9	252.6	275.8	318.1	402.7
127.5°	179.1	170.7	162.5	170.7	179.1	181.1	211.5	251.9	272.1	308.4	381.0
130°	185.7	176.8	167.9	176.8	185.7	187.9	215.5	252.3	270.7	303.0	367.6
132.5°	191.2	182.4	173.4	182.4	191.2	193.5	218.8	252.6	269.4	298.3	356.2
135°	198.0	189.8	181.7	189.8	198.0	200.0	222.4	252.3	267.3	291.5	339.9
137.5°	206.2	198.1	190.1	198.1	206.2	208.2	227.8	253.8	266.9	287.4	328.3
140°	211.9	204.5	197.1	204.5	211.9	213.8	231.1	254.1	265.6	283.4	318.7
142.5°	216.2	209.3	202.5	209.3	216.2	217.9	233.9	255.1	265.6	281.2	312.3
145°	222.7	216.8	210.8	216.8	222.7	224.2	237.4	255.1	263.8	276.6	302.0
147.5°	230.6	224.8	219.0	224.8	230.6	232.1	242.6	256.8	263.8	273.9	293.8
150°	234.8	229.6	224.4	229.6	234.8	236.2	245.4	257.7	263.8	272.3	289.2
152.5°	237.9	233.9	229.9	233.9	237.9	238.9	247.2	258.3	263.8	271.0	285.4
155°	244.1	241.1	238.2	241.1	244.1	244.8	251.1	259.6	263.8	269.6	281.0
157.5°	250.0	247.1	244.2	247.1	250.0	250.7	255.1	260.9	263.8	268.3	277.2
160°	252.8	250.6	248.4	250.6	252.8	253.4	256.9	261.5	263.8	267.7	275.3
162.5°	255.8	254.2	252.5	254.2	255.8	256.2	258.7	262.1	263.8	267.1	273.5
165°	260.1	258.6	257.0	258.6	260.1	260.4	261.6	263.1	263.8	266.2	270.7
167.5°	262.6	261.9	261.2	261.9	262.6	262.8	263.8	265.0	265.6	267.2	270.2
170°	265.3	264.6	263.8	264.6	265.3	265.5	265.5	265.6	265.6	267.2	270.2
172.5°	265.6	265.5	265.3	265.5	265.6	265.6	265.6	265.6	265.6	266.8	269.2
175°	267.3	267.3	267.3	267.3	267.3	267.3	266.7	266.0	265.6	266.4	267.9
177.5°	267.3	267.3	267.3	267.3	267.3	267.3	266.8	266.3	266.0	266.6	267.8
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934066

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2413.1	2406.1	2415.6	2389.5	2415.6	2406.1	2413.1	2429.7	2415.6	2425.0	2434.4
5°	2117.4	2105.6	2067.7	2037.0	2067.7	2105.6	2117.4	2167.1	2190.7	2233.4	2290.1
7.5°	1892.7	1883.2	1873.7	1854.8	1873.7	1883.2	1892.7	1906.8	1930.6	1968.3	2011.0
10°	1843.0	1845.3	1859.6	1857.1	1859.6	1845.3	1843.0	1838.3	1831.2	1838.3	1864.3
12.5°	1970.8	1992.1	2070.1	2065.4	2070.1	1992.1	1970.8	1876.1	1812.2	1800.4	1805.1
15°	2117.4	2124.5	2141.0	2143.5	2141.0	2124.5	2117.4	2079.5	1887.9	1805.1	1779.1
17.5°	2131.6	2134.0	2145.8	2145.8	2145.8	2134.0	2131.6	2115.1	2051.2	1940.0	1793.3
20°	2119.8	2124.5	2148.2	2153.0	2148.2	2124.5	2119.8	2098.5	2063.0	2022.8	1911.6
22.5°	2115.1	2124.5	2143.5	2141.0	2143.5	2124.5	2115.1	2082.0	2051.2	2022.8	1977.8
25°	2091.4	2091.4	2093.8	2096.1	2093.8	2091.4	2091.4	2065.4	2003.9	1996.7	1970.8
27.5°	2041.8	2046.4	2060.7	2058.3	2060.7	2046.4	2041.8	2032.3	1966.0	1958.9	1940.0
30°	1996.7	1992.1	1980.2	1970.8	1980.2	1992.1	1996.7	1982.6	1916.3	1897.4	1902.1
32.5°	1921.1	1909.3	1897.4	1890.3	1897.4	1909.3	1921.1	1916.3	1866.6	1840.6	1845.3
35°	1831.2	1833.5	1831.2	1824.0	1831.2	1833.5	1831.2	1835.9	1805.1	1781.5	1779.1
37.5°	1767.3	1772.0	1769.7	1760.2	1769.7	1772.0	1767.3	1762.5	1720.0	1712.9	1717.6
40°	1701.0	1703.4	1701.0	1693.9	1701.0	1703.4	1701.0	1691.6	1632.4	1634.8	1651.3
42.5°	1637.2	1634.8	1627.7	1622.9	1627.7	1634.8	1637.2	1622.9	1547.3	1540.1	1570.9
45°	1563.8	1566.2	1552.0	1544.9	1552.0	1566.2	1563.8	1554.4	1476.3	1457.4	1478.6
47.5°	1490.5	1490.5	1478.6	1471.5	1478.6	1490.5	1490.5	1478.6	1395.9	1376.9	1388.7
50°	1412.4	1410.0	1393.5	1391.1	1393.5	1410.0	1412.4	1405.3	1317.8	1301.2	1301.2
52.5°	1322.5	1322.5	1324.9	1329.6	1324.9	1322.5	1322.5	1324.9	1246.8	1230.2	1225.5
55°	1244.4	1246.8	1263.4	1268.1	1263.4	1246.8	1244.4	1244.4	1173.5	1156.9	1147.4
57.5°	1164.0	1164.0	1175.8	1175.8	1175.8	1164.0	1164.0	1159.2	1090.7	1076.4	1071.7
60°	1071.7	1076.4	1085.9	1083.6	1085.9	1076.4	1071.7	1067.0	1007.9	998.4	981.8
62.5°	974.7	979.5	981.8	977.1	981.8	979.5	974.7	960.5	925.0	918.0	896.7
65°	873.0	877.8	880.1	875.3	880.1	877.8	873.0	865.9	839.9	828.1	809.1
67.5°	768.9	766.6	764.1	773.6	764.1	766.6	768.9	759.4	742.8	733.4	707.4
70°	662.4	662.4	660.0	664.8	660.0	662.4	662.4	655.4	645.9	638.8	615.1
72.5°	548.9	546.5	556.0	548.9	556.0	546.5	548.9	546.5	541.8	534.7	511.0
75°	437.7	442.4	437.7	444.8	437.7	442.4	437.7	440.0	437.7	433.0	416.4
77.5°	333.6	338.3	333.6	333.6	333.6	338.3	333.6	335.9	335.9	335.9	321.8
80°	236.5	234.2	234.2	231.9	234.2	234.2	236.5	236.5	239.0	234.2	229.5
82.5°	151.4	149.1	149.1	153.8	149.1	149.1	151.4	153.8	149.1	149.1	149.1
85°	82.8	85.1	80.4	80.4	80.4	85.1	82.8	78.1	82.8	82.8	80.4
87.5°	30.8	28.4	28.4	28.4	28.4	28.4	30.8	33.1	33.1	33.1	35.5
90°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7
92.5°	34.1	32.8	27.3	21.8	27.3	32.8	34.1	48.3	67.2	76.7	67.4
95°	115.7	111.6	95.2	78.7	95.2	111.6	115.7	151.9	200.2	224.4	189.4
97.5°	267.1	259.3	227.9	196.7	227.9	259.3	267.1	290.0	320.5	335.7	277.5
100°	375.0	365.7	328.5	291.2	328.5	365.7	375.0	373.3	371.1	369.9	305.4
102.5°	467.2	459.2	427.3	395.5	427.3	459.2	467.2	438.0	399.1	379.7	314.3
105°	574.8	570.5	553.4	536.2	553.4	570.5	574.8	509.4	422.2	378.6	315.2
107.5°	630.7	631.8	635.9	640.1	635.9	631.8	630.7	539.5	417.8	357.1	301.2
110°	645.1	649.5	667.4	685.3	667.4	649.5	645.1	543.1	407.1	339.1	288.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	635.9	642.8	670.2	697.6	670.2	642.8	635.9	531.5	392.4	322.8	277.9
115°	605.0	614.5	652.5	690.5	652.5	614.5	605.0	504.4	370.3	303.2	265.5
117.5°	562.1	572.6	614.8	657.0	614.8	572.6	562.1	471.3	350.3	289.8	257.7
120°	533.2	543.4	584.4	625.4	584.4	543.4	533.2	450.3	339.7	284.4	255.1
122.5°	504.3	514.4	554.8	595.2	554.8	514.4	504.3	429.7	330.1	280.3	253.6
125°	466.1	475.4	512.7	549.9	512.7	475.4	466.1	402.7	318.1	275.8	252.6
127.5°	435.5	443.4	474.7	506.1	474.7	443.4	435.5	381.0	308.4	272.1	251.9
130°	416.1	423.3	452.3	481.3	452.3	423.3	416.1	367.6	303.0	270.7	252.3
132.5°	399.6	406.1	432.1	458.0	432.1	406.1	399.6	356.2	298.3	269.4	252.6
135°	376.3	381.9	404.2	426.6	404.2	381.9	376.3	339.9	291.5	267.3	252.3
137.5°	359.0	363.6	381.9	400.3	381.9	363.6	359.0	328.3	287.4	266.9	253.8
140°	345.2	349.5	366.6	383.8	366.6	349.5	345.2	318.7	283.4	265.6	254.1
142.5°	335.6	339.2	354.0	368.7	354.0	339.2	335.6	312.3	281.2	265.6	255.1
145°	321.1	323.8	335.0	346.1	335.0	323.8	321.1	302.0	276.6	263.8	255.1
147.5°	308.8	311.1	320.3	329.7	320.3	311.1	308.8	293.8	273.9	263.8	256.8
150°	301.8	303.7	311.2	318.7	311.2	303.7	301.8	289.2	272.3	263.8	257.7
152.5°	296.3	297.7	303.3	309.0	303.3	297.7	296.3	285.4	271.0	263.8	258.3
155°	289.6	290.5	294.3	298.0	294.3	290.5	289.6	281.0	269.6	263.8	259.6
157.5°	283.9	284.5	287.2	289.8	287.2	284.5	283.9	277.2	268.3	263.8	260.9
160°	281.0	281.4	282.9	284.4	282.9	281.4	281.0	275.3	267.7	263.8	261.5
162.5°	278.4	278.7	280.1	281.6	280.1	278.7	278.4	273.5	267.1	263.8	262.1
165°	274.2	274.6	276.1	277.6	276.1	274.6	274.2	270.7	266.2	263.8	263.1
167.5°	272.4	272.6	273.2	273.9	273.2	272.6	272.4	270.2	267.2	265.6	265.0
170°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	270.2	267.2	265.6	265.6
172.5°	271.0	270.8	270.3	269.8	270.3	270.8	271.0	269.2	266.8	265.6	265.6
175°	269.0	269.0	269.0	269.0	269.0	269.0	269.0	267.9	266.4	265.6	266.0
177.5°	268.7	268.5	267.9	267.3	267.9	268.5	268.7	267.8	266.6	266.0	266.3
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2469.9	2481.8	2488.9	2498.4	2522.0
5°	2375.3	2420.2	2434.4	2469.9	2512.5
7.5°	2167.1	2304.4	2342.1	2427.4	2493.6
10°	1966.0	2103.3	2169.4	2370.6	2469.9
12.5°	1864.3	1944.7	1989.7	2271.2	2436.8
15°	1800.4	1857.1	1890.3	2138.7	2399.0
17.5°	1750.7	1791.0	1814.6	2008.6	2346.9
20°	1720.0	1738.9	1760.2	1914.0	2287.8
22.5°	1698.7	1686.9	1703.4	1847.7	2207.3
25°	1684.4	1639.5	1658.5	1795.6	2112.7
27.5°	1696.3	1597.0	1604.0	1748.4	2013.3
30°	1698.7	1544.9	1547.3	1698.7	1902.1
32.5°	1682.1	1490.5	1492.8	1637.2	1776.7
35°	1641.9	1426.6	1424.3	1566.2	1606.4
37.5°	1587.5	1358.0	1358.0	1488.1	1419.5
40°	1521.2	1289.3	1296.5	1386.4	1253.9
42.5°	1440.8	1216.0	1225.5	1251.6	1130.9
45°	1353.3	1145.1	1152.2	1057.5	1036.2
47.5°	1256.3	1071.7	1074.1	877.8	1005.5
50°	1140.4	996.0	986.5	752.3	1003.1
52.5°	1038.6	913.2	884.8	681.3	910.9
55°	939.3	825.7	764.1	627.0	844.6
57.5°	851.7	712.1	653.0	563.1	830.4
60°	771.2	600.9	556.0	494.5	761.8
62.5°	705.1	518.1	508.6	447.1	690.8
65°	634.1	461.4	458.9	406.9	586.7
67.5°	565.5	423.5	421.2	369.0	447.1
70°	492.1	383.3	378.5	328.8	331.2
72.5°	416.4	338.3	333.6	295.7	274.4
75°	340.7	286.2	283.9	257.8	222.4
77.5°	267.3	227.1	231.9	208.2	163.2
80°	191.6	165.6	170.4	149.1	123.0
82.5°	127.8	108.9	113.5	94.6	82.8
85°	71.0	61.5	63.8	49.7	37.9
87.5°	33.1	28.4	28.4	18.9	11.8
90°	7.9	5.0	4.7	3.2	1.8
92.5°	48.7	34.6	31.6	19.3	7.2
95°	119.7	67.4	61.9	39.5	17.2
97.5°	161.2	74.0	69.1	49.5	29.8
100°	176.4	79.6	75.1	57.3	39.5
102.5°	183.4	85.1	81.0	64.4	47.7
105°	188.6	93.5	90.0	75.8	61.7
107.5°	189.4	105.6	102.3	89.2	76.0
110°	188.0	112.5	109.5	97.6	85.8



TEST NUMBER: P934066

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	188.1	120.7	117.8	106.5	95.3
115°	189.8	133.0	130.4	120.0	109.6
117.5°	193.4	145.1	142.7	133.2	123.7
120°	196.3	152.1	149.9	140.9	132.0
122.5°	200.4	160.4	158.1	149.1	140.0
125°	205.9	170.9	168.9	160.7	152.5
127.5°	211.5	181.1	179.1	170.7	162.5
130°	215.5	187.9	185.7	176.8	167.9
132.5°	218.8	193.5	191.2	182.4	173.4
135°	222.4	200.0	198.0	189.8	181.7
137.5°	227.8	208.2	206.2	198.1	190.1
140°	231.1	213.8	211.9	204.5	197.1
142.5°	233.9	217.9	216.2	209.3	202.5
145°	237.4	224.2	222.7	216.8	210.8
147.5°	242.6	232.1	230.6	224.8	219.0
150°	245.4	236.2	234.8	229.6	224.4
152.5°	247.2	238.9	237.9	233.9	229.9
155°	251.1	244.8	244.1	241.1	238.2
157.5°	255.1	250.7	250.0	247.1	244.2
160°	256.9	253.4	252.8	250.6	248.4
162.5°	258.7	256.2	255.8	254.2	252.5
165°	261.6	260.4	260.1	258.6	257.0
167.5°	263.8	262.8	262.6	261.9	261.2
170°	265.5	265.5	265.3	264.6	263.8
172.5°	265.6	265.6	265.6	265.5	265.3
175°	266.7	267.3	267.3	267.3	267.3
177.5°	266.8	267.3	267.3	267.3	267.3
180°	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934066

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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	15.66	16.86	16.32	17.54	18.32	18.50	19.69	19.16	20.37	21.16
	3H	16.16	17.24	16.84	17.93	18.75	19.87	20.95	20.54	21.63	22.46
	4H	16.37	17.38	17.06	18.08	18.92	20.33	21.35	21.02	22.05	22.88
	6H	16.50	17.44	17.21	18.15	19.00	20.63	21.57	21.34	22.28	23.13
	8H	16.51	17.41	17.23	18.14	18.99	20.72	21.61	21.44	22.34	23.19
	12H	16.50	17.35	17.22	18.07	18.95	20.77	21.62	21.50	22.35	23.23
4H	2H	16.73	17.75	17.43	18.45	19.28	18.94	19.96	19.64	20.66	21.49
	3H	17.79	18.64	18.50	19.37	20.23	20.48	21.33	21.19	22.07	22.92
	4H	18.08	18.85	18.81	19.59	20.47	21.03	21.80	21.75	22.53	23.42
	6H	18.22	18.89	18.97	19.65	20.55	21.41	22.08	22.16	22.84	23.74
	8H	18.24	18.86	18.99	19.62	20.52	21.53	22.15	22.28	22.91	23.82
	12H	18.22	18.78	18.99	19.57	20.47	21.60	22.16	22.37	22.95	23.86
8H	4H	18.56	19.18	19.31	19.95	20.85	21.18	21.80	21.93	22.56	23.47
	6H	18.84	19.35	19.62	20.16	21.06	21.63	22.15	22.41	22.95	23.86
	8H	18.88	19.34	19.68	20.15	21.07	21.79	22.25	22.58	23.05	23.97
	12H	18.88	19.29	19.68	20.08	21.06	21.90	22.31	22.70	23.10	24.08
12H	4H	18.58	19.14	19.36	19.93	20.84	21.16	21.72	21.93	22.50	23.41
	6H	18.90	19.36	19.69	20.16	21.09	21.63	22.09	22.42	22.89	23.82
	8H	18.98	19.39	19.78	20.18	21.16	21.81	22.21	22.60	23.01	23.99