

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: P934161

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934161
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-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

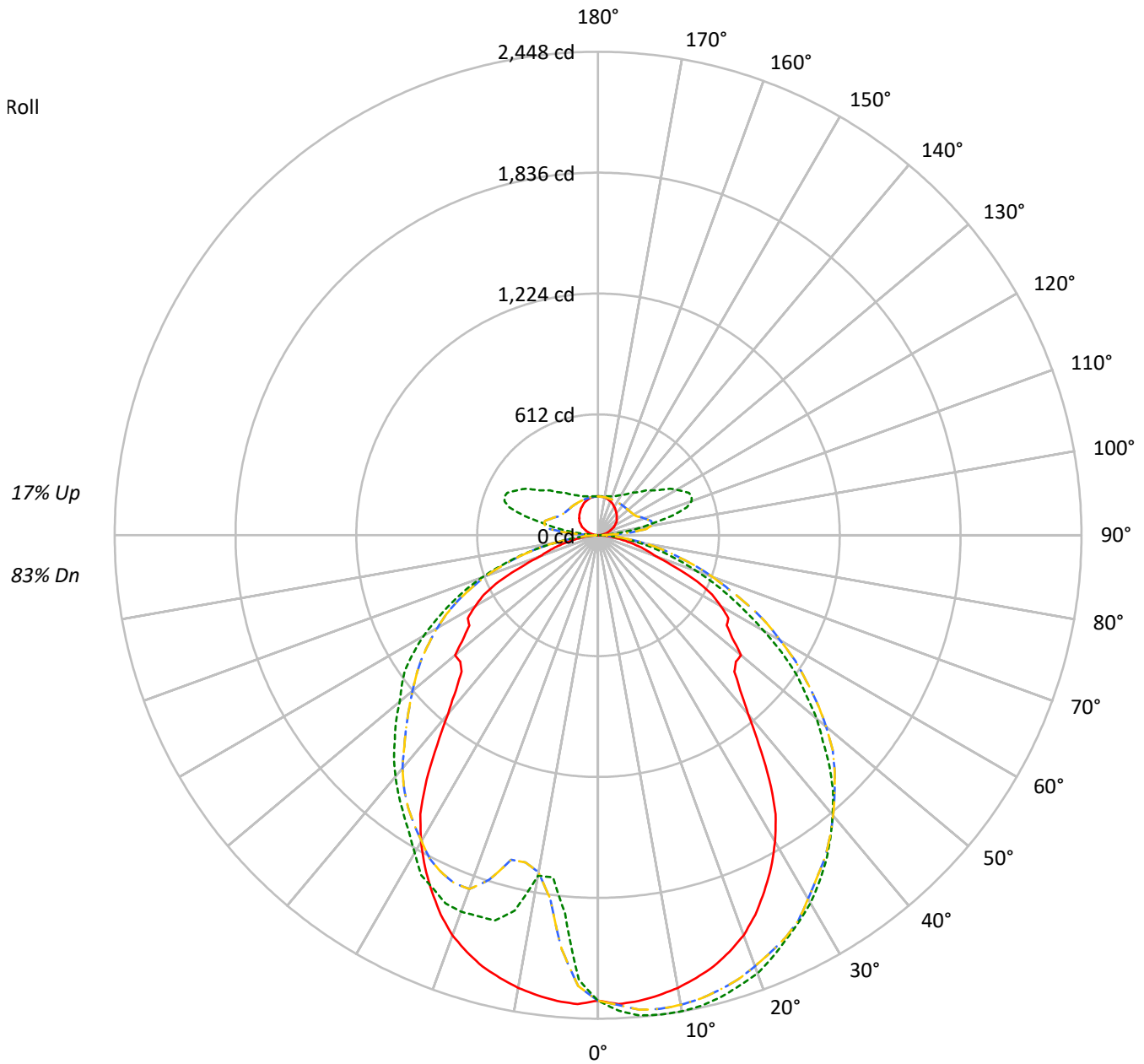
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7384.7 lumens
Efficiency: N/A
Efficacy: 99.3 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): 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°	14576	14576	14576	14576
5°	14680	14714	14680	11570
10°	14576	14494	14576	10362
15°	14413	14181	14413	11841
20°	14106	13808	14106	11865
25°	13483	13266	13483	11614
30°	12681	12815	12681	11062
35°	11299	12245	11299	10455
40°	9410	11574	9410	9997
45°	8402	10790	8402	9470
50°	8919	9853	8919	8941
55°	8383	8844	8383	8634
60°	8632	7511	8632	7909
65°	7814	6209	7814	6941
70°	5398	4949	5398	5818
75°	4716	3658	4716	4380
80°	3772	2418	3772	2632
85°	2128	1280	2128	1089

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.9
10°-20°	603.9	8.2
20°-30°	933.5	12.6
30°-40°	1114.4	15.1
40°-50°	1121.0	15.2
50°-60°	975.4	13.2
60°-70°	691.6	9.4
70°-80°	365.9	5.0
80°-90°	91.9	1.2
90°-100°	95.8	1.3
100°-110°	252.0	3.4
110°-120°	261.2	3.5
120°-130°	209.6	2.8
130°-140°	164.4	2.2
140°-150°	126.2	1.7
150°-160°	90.9	1.2
160°-170°	55.6	0.8
170°-180°	18.8	0.3
0°-30°	1750.1	23.7
0°-40°	2864.6	38.8
0°-60°	4960.9	67.2
0°-90°	6110.2	82.7
90°-120°	609.0	8.2
90°-150°	1109.2	15.0
90°-180°	1275.0	17.3
0°-180°	7384.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2356	2356	2356	2356	2356	
5°	2368	2441	2368	1919	2368	225
15°	2260	2419	2260	2020	2260	636
25°	1991	2256	1991	1975	1991	914
35°	1514	2013	1514	1719	1514	936
45°	976	1659	976	1456	976	782
55°	796	1224	796	1195	796	731
65°	553	738	553	825	553	528
75°	210	350	210	419	210	220
85°	36	89	36	76	36	48
90°	1	5	1	5	1	3
95°	13	58	13	58	13	14
105°	45	394	45	394	45	48
115°	81	508	81	508	81	80
125°	112	404	112	404	112	100
135°	134	314	134	314	134	103
145°	155	255	155	255	155	97
155°	175	219	175	219	175	81
165°	189	204	189	204	189	53
175°	197	198	197	198	197	19
180°	197	197	197	197	197	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2376.3	2376.3	2389.8	2394.2	2394.2	2387.5	2380.8	2387.5	2407.6	2414.3	2412.0
5°	2367.5	2385.3	2409.8	2414.3	2418.8	2416.5	2412.0	2416.5	2438.8	2443.3	2445.5
7.5°	2349.6	2383.0	2414.3	2420.9	2427.6	2420.9	2418.8	2423.1	2445.5	2449.9	2449.9
10°	2327.3	2374.1	2409.8	2414.3	2420.9	2414.3	2414.3	2423.1	2445.5	2449.9	2452.1
12.5°	2296.1	2360.8	2394.2	2398.6	2407.6	2405.3	2403.1	2412.0	2434.3	2438.8	2438.8
15°	2260.5	2336.2	2367.5	2371.9	2387.5	2383.0	2383.0	2392.0	2416.5	2423.1	2420.9
17.5°	2211.4	2305.0	2340.7	2347.3	2358.5	2356.3	2358.5	2367.5	2389.8	2394.2	2396.4
20°	2155.7	2262.7	2305.0	2311.7	2322.8	2322.8	2322.8	2334.0	2356.3	2365.2	2365.2
22.5°	2079.9	2218.1	2262.7	2267.2	2280.5	2280.5	2285.0	2300.5	2320.6	2322.8	2322.8
25°	1990.7	2169.1	2206.9	2220.3	2233.7	2240.4	2247.0	2256.0	2262.7	2260.5	2262.7
27.5°	1897.0	2106.6	2155.7	2164.6	2182.4	2189.1	2198.0	2200.2	2202.5	2209.2	2204.7
30°	1792.3	2019.7	2093.3	2102.1	2131.1	2135.6	2126.7	2131.1	2142.3	2146.7	2151.2
32.5°	1674.1	1890.4	2028.6	2048.6	2075.4	2062.1	2059.8	2066.5	2084.3	2084.3	2088.8
35°	1513.7	1790.1	1968.4	1986.3	2006.3	1990.7	1999.6	2001.8	2013.0	2019.7	2017.5
37.5°	1337.6	1703.1	1906.0	1919.4	1935.0	1914.9	1928.3	1935.0	1943.9	1939.5	1939.5
40°	1181.5	1567.2	1832.4	1841.4	1854.7	1839.1	1852.5	1857.0	1861.4	1857.0	1854.7
42.5°	1065.6	1417.8	1754.4	1765.6	1756.6	1767.8	1772.2	1781.2	1774.4	1765.6	1765.6
45°	976.4	1377.7	1669.7	1683.1	1669.7	1687.6	1694.2	1694.2	1674.1	1669.7	1667.5
47.5°	947.4	1297.4	1585.0	1585.0	1578.3	1600.6	1611.8	1596.1	1576.0	1569.3	1569.3
50°	945.2	1208.3	1469.0	1460.2	1491.4	1518.1	1507.0	1491.4	1475.7	1451.2	1451.2
52.5°	858.3	1099.0	1319.7	1353.1	1402.2	1417.8	1399.9	1384.4	1357.6	1346.4	1337.6
55°	795.8	985.3	1183.7	1250.6	1301.9	1321.9	1288.5	1272.9	1232.8	1226.1	1221.6
57.5°	782.5	820.3	1058.9	1143.6	1206.0	1203.8	1183.7	1154.7	1121.3	1114.7	1112.4
60°	717.8	592.9	925.1	1025.4	1090.1	1083.4	1065.6	1038.9	1007.6	1003.2	998.7
62.5°	650.9	430.3	773.5	887.3	978.6	976.4	960.8	920.6	898.4	887.3	878.3
65°	552.9	361.2	550.6	737.9	869.4	873.8	840.4	811.5	787.0	773.5	771.3
67.5°	421.3	294.2	372.3	615.2	764.6	760.2	717.8	704.4	673.2	666.5	653.2
70°	312.1	196.2	258.6	499.3	662.1	650.9	617.5	601.9	572.9	557.3	548.4
72.5°	258.6	158.3	189.4	387.9	557.3	543.9	514.9	497.1	472.6	459.3	450.3
75°	209.6	167.2	144.9	287.6	452.5	443.6	416.8	399.0	379.0	361.2	363.4
77.5°	153.8	156.1	115.9	211.8	358.9	345.5	329.9	307.7	298.7	280.9	280.9
80°	115.9	122.6	87.0	144.9	258.6	258.6	245.2	229.6	214.0	205.1	205.1
82.5°	78.0	78.0	64.6	91.4	176.1	169.4	160.5	156.1	147.1	142.6	142.6
85°	35.7	44.6	40.1	55.8	95.8	100.3	100.3	95.8	93.6	89.1	91.4
87.5°	11.2	20.0	24.5	31.2	49.0	51.3	53.5	53.5	53.5	55.8	55.8
90°	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7	5.0	5.0
92.5°	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5	25.0	24.1
95°	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7	85.1	82.1
97.5°	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3	196.5	190.8
100°	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6	275.9	269.0
102.5°	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2	343.8	337.9
105°	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8	422.9	419.7
107.5°	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0	464.1	464.9
110°	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6	474.6	477.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1	467.9	472.9
115°	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1	445.0	452.1
117.5°	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8	413.5	421.2
120°	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3	392.3	399.9
122.5°	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1	371.1	378.5
125°	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3	343.0	349.8
127.5°	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4	320.4	326.2
130°	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4	306.1	311.4
132.5°	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1	294.0	298.7
135°	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1	276.8	281.0
137.5°	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6	264.2	267.5
140°	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5	254.0	257.2
142.5°	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8	246.9	249.6
145°	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1	236.2	238.2
147.5°	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1	227.2	228.9
150°	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7	222.0	223.4
152.5°	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0	218.0	219.0
155°	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8	213.1	213.8
157.5°	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9	208.9	209.4
160°	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5	206.8	207.0
162.5°	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2	204.8	205.1
165°	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2	201.7	202.0
167.5°	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8	200.4	200.5
170°	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8	200.4	200.4
172.5°	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1	199.4	199.3
175°	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1	198.0	198.0
177.5°	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0	197.7	197.6
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2416.5	2409.8	2416.5	2412.0	2414.3	2407.6	2387.5	2380.8	2387.5	2394.2	2394.2
5°	2445.5	2441.0	2445.5	2445.5	2443.3	2438.8	2416.5	2412.0	2416.5	2418.8	2414.3
7.5°	2454.4	2447.7	2454.4	2449.9	2449.9	2445.5	2423.1	2418.8	2420.9	2427.6	2420.9
10°	2454.4	2447.7	2454.4	2452.1	2449.9	2445.5	2423.1	2414.3	2414.3	2420.9	2414.3
12.5°	2443.3	2438.8	2443.3	2438.8	2438.8	2434.3	2412.0	2403.1	2405.3	2407.6	2398.6
15°	2425.4	2418.8	2425.4	2420.9	2423.1	2416.5	2392.0	2383.0	2383.0	2387.5	2371.9
17.5°	2398.6	2389.8	2398.6	2396.4	2394.2	2389.8	2367.5	2358.5	2356.3	2358.5	2347.3
20°	2367.5	2360.8	2367.5	2365.2	2365.2	2356.3	2334.0	2322.8	2322.8	2322.8	2311.7
22.5°	2318.4	2311.7	2318.4	2322.8	2322.8	2320.6	2300.5	2285.0	2280.5	2280.5	2267.2
25°	2262.7	2256.0	2262.7	2262.7	2260.5	2262.7	2256.0	2247.0	2240.4	2233.7	2220.3
27.5°	2209.2	2204.7	2209.2	2204.7	2209.2	2202.5	2200.2	2198.0	2189.1	2182.4	2164.6
30°	2155.7	2151.2	2155.7	2151.2	2146.7	2142.3	2131.1	2126.7	2135.6	2131.1	2102.1
32.5°	2088.8	2084.3	2088.8	2088.8	2084.3	2084.3	2066.5	2059.8	2062.1	2075.4	2048.6
35°	2019.7	2013.0	2019.7	2017.5	2019.7	2013.0	2001.8	1999.6	1990.7	2006.3	1986.3
37.5°	1939.5	1932.7	1939.5	1939.5	1939.5	1943.9	1935.0	1928.3	1914.9	1935.0	1919.4
40°	1857.0	1848.0	1857.0	1854.7	1857.0	1861.4	1857.0	1852.5	1839.1	1854.7	1841.4
42.5°	1763.4	1761.1	1763.4	1765.6	1765.6	1774.4	1781.2	1772.2	1767.8	1756.6	1765.6
45°	1663.0	1658.6	1663.0	1667.5	1669.7	1674.1	1694.2	1694.2	1687.6	1669.7	1683.1
47.5°	1556.0	1544.8	1556.0	1569.3	1569.3	1576.0	1596.1	1611.8	1600.6	1578.3	1585.0
50°	1442.3	1444.5	1442.3	1451.2	1451.2	1475.7	1491.4	1507.0	1518.1	1491.4	1460.2
52.5°	1330.9	1328.6	1330.9	1337.6	1346.4	1357.6	1384.4	1399.9	1417.8	1402.2	1353.1
55°	1219.3	1223.8	1219.3	1221.6	1226.1	1232.8	1272.9	1288.5	1321.9	1301.9	1250.6
57.5°	1107.9	1101.2	1107.9	1112.4	1114.7	1121.3	1154.7	1183.7	1203.8	1206.0	1143.6
60°	978.6	969.7	978.6	998.7	1003.2	1007.6	1038.9	1065.6	1083.4	1090.1	1025.4
62.5°	865.0	849.3	865.0	878.3	887.3	898.4	920.6	960.8	976.4	978.6	887.3
65°	744.5	737.9	744.5	771.3	773.5	787.0	811.5	840.4	873.8	869.4	737.9
67.5°	635.4	635.4	635.4	653.2	666.5	673.2	704.4	717.8	760.2	764.6	615.2
70°	535.0	532.8	535.0	548.4	557.3	572.9	601.9	617.5	650.9	662.1	499.3
72.5°	439.2	437.0	439.2	450.3	459.3	472.6	497.1	514.9	543.9	557.3	387.9
75°	354.5	350.0	354.5	363.4	361.2	379.0	399.0	416.8	443.6	452.5	287.6
77.5°	272.0	272.0	272.0	280.9	280.9	298.7	307.7	329.9	345.5	358.9	211.8
80°	202.9	200.6	202.9	205.1	205.1	214.0	229.6	245.2	258.6	258.6	144.9
82.5°	142.6	138.2	142.6	142.6	142.6	147.1	156.1	160.5	169.4	176.1	91.4
85°	89.1	89.1	89.1	91.4	89.1	93.6	95.8	100.3	100.3	95.8	55.8
87.5°	58.0	55.8	58.0	55.8	55.8	53.5	53.5	53.5	51.3	49.0	31.2
90°	5.0	5.0	5.0	5.0	5.0	6.7	8.9	10.0	8.6	5.8	3.7
92.5°	20.0	16.1	20.0	24.1	25.0	35.5	49.4	56.5	49.6	35.8	25.5
95°	70.0	58.0	70.0	82.1	85.1	111.7	147.3	165.0	139.4	88.1	49.6
97.5°	167.8	144.7	167.8	190.8	196.5	213.3	235.7	247.0	204.2	118.7	54.5
100°	241.7	214.3	241.7	269.0	275.9	274.6	273.0	272.2	224.8	129.8	58.6
102.5°	314.4	291.0	314.4	337.9	343.8	322.2	293.6	279.3	231.2	134.9	62.7
105°	407.2	394.5	407.2	419.7	422.9	374.8	310.6	278.5	231.9	138.7	68.8
107.5°	467.9	470.9	467.9	464.9	464.1	397.0	307.5	262.7	221.6	139.4	77.7
110°	491.1	504.2	491.1	477.9	474.6	399.6	299.6	249.5	212.5	138.3	82.7



TEST NUMBER: P934161

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	493.1	513.3	493.1	472.9	467.9	391.1	288.7	237.5	204.5	138.3	88.8
115°	480.0	508.0	480.0	452.1	445.0	371.1	272.4	223.1	195.2	139.6	97.9
117.5°	452.3	483.3	452.3	421.2	413.5	346.8	257.8	213.3	189.5	142.2	106.7
120°	430.0	460.1	430.0	399.9	392.3	331.3	250.0	209.3	187.7	144.4	111.9
122.5°	408.2	437.9	408.2	378.5	371.1	316.1	242.9	206.2	186.6	147.4	118.0
125°	377.1	404.5	377.1	349.8	343.0	296.3	234.1	203.0	185.8	151.5	125.8
127.5°	349.3	372.4	349.3	326.2	320.4	280.4	226.9	200.2	185.3	155.5	133.2
130°	332.8	354.1	332.8	311.4	306.1	270.4	222.9	199.1	185.6	158.5	138.2
132.5°	317.9	337.0	317.9	298.7	294.0	262.1	219.5	198.2	185.8	161.0	142.4
135°	297.4	313.9	297.4	281.0	276.8	250.1	214.5	196.7	185.7	163.6	147.1
137.5°	281.1	294.5	281.1	267.5	264.2	241.6	211.5	196.4	186.8	167.6	153.2
140°	269.7	282.4	269.7	257.2	254.0	234.5	208.4	195.4	187.0	170.0	157.3
142.5°	260.4	271.3	260.4	249.6	246.9	229.8	206.8	195.4	187.6	172.0	160.3
145°	246.5	254.7	246.5	238.2	236.2	222.1	203.4	194.1	187.6	174.7	164.9
147.5°	235.7	242.5	235.7	228.9	227.2	216.1	201.5	194.1	188.9	178.6	170.7
150°	229.0	234.5	229.0	223.4	222.0	212.7	200.3	194.1	189.6	180.6	173.8
152.5°	223.2	227.4	223.2	219.0	218.0	210.0	199.4	194.1	190.1	181.9	175.7
155°	216.5	219.3	216.5	213.8	213.1	206.8	198.3	194.1	191.0	184.8	180.1
157.5°	211.3	213.3	211.3	209.4	208.9	203.9	197.4	194.1	192.0	187.7	184.4
160°	208.2	209.3	208.2	207.0	206.8	202.5	196.9	194.1	192.4	189.0	186.5
162.5°	206.1	207.2	206.1	205.1	204.8	201.2	196.5	194.1	192.9	190.4	188.6
165°	203.2	204.3	203.2	202.0	201.7	199.2	195.8	194.1	193.6	192.4	191.6
167.5°	201.0	201.5	201.0	200.5	200.4	198.8	196.6	195.4	195.0	194.0	193.3
170°	200.4	200.4	200.4	200.4	200.4	198.8	196.6	195.4	195.4	195.3	195.2
172.5°	198.8	198.5	198.8	199.3	199.4	198.1	196.3	195.4	195.4	195.4	195.4
175°	198.0	198.0	198.0	198.0	198.0	197.1	195.9	195.4	195.7	196.2	196.7
177.5°	197.1	196.7	197.1	197.6	197.7	197.0	196.1	195.7	195.9	196.3	196.7
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P934161

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2389.8	2376.3	2376.3	2354.1	2345.2	2338.5	2327.3	2293.9	2285.0	2276.0	2289.4
5°	2409.8	2385.3	2367.5	2327.3	2293.9	2280.5	2238.2	2157.9	2104.4	2064.3	2042.0
7.5°	2414.3	2383.0	2349.6	2287.2	2206.9	2171.2	2042.0	1894.8	1854.7	1819.0	1796.7
10°	2409.8	2374.1	2327.3	2233.7	2044.2	1981.8	1852.5	1756.6	1732.1	1725.4	1732.1
12.5°	2394.2	2360.8	2296.1	2140.1	1874.8	1832.4	1756.6	1700.9	1696.4	1707.6	1767.8
15°	2367.5	2336.2	2260.5	2015.3	1781.2	1749.9	1696.4	1676.4	1700.9	1778.9	1959.5
17.5°	2340.7	2305.0	2211.4	1892.7	1709.8	1687.6	1649.6	1689.8	1828.0	1932.7	1993.0
20°	2305.0	2262.7	2155.7	1803.4	1658.6	1638.5	1620.6	1801.2	1906.0	1943.9	1977.3
22.5°	2262.7	2218.1	2079.9	1741.1	1605.0	1589.5	1600.6	1863.7	1906.0	1932.7	1961.7
25°	2206.9	2169.1	1990.7	1692.0	1562.7	1544.8	1587.2	1857.0	1881.5	1888.2	1946.1
27.5°	2155.7	2106.6	1897.0	1647.4	1511.4	1504.7	1598.3	1828.0	1845.8	1852.5	1914.9
30°	2093.3	2019.7	1792.3	1600.6	1457.9	1455.7	1600.6	1792.3	1787.9	1805.7	1868.1
32.5°	2028.6	1890.4	1674.1	1542.6	1406.7	1404.4	1585.0	1738.8	1734.4	1758.9	1805.7
35°	1968.4	1790.1	1513.7	1475.7	1342.0	1344.2	1547.1	1676.4	1678.6	1700.9	1729.9
37.5°	1906.0	1703.1	1337.6	1402.2	1279.6	1279.6	1495.8	1618.4	1614.0	1620.6	1660.8
40°	1832.4	1567.2	1181.5	1306.3	1221.6	1215.0	1433.4	1556.0	1540.4	1538.2	1593.9
42.5°	1754.4	1417.8	1065.6	1179.3	1154.7	1145.8	1357.6	1480.2	1451.2	1457.9	1529.2
45°	1669.7	1377.7	976.4	996.4	1085.7	1078.9	1275.1	1393.2	1373.2	1391.1	1464.6
47.5°	1585.0	1297.4	947.4	827.0	1012.1	1009.9	1183.7	1308.6	1297.4	1315.3	1393.2
50°	1469.0	1208.3	945.2	708.9	929.6	938.5	1074.5	1226.1	1226.1	1241.7	1324.1
52.5°	1319.7	1099.0	858.3	642.0	833.8	860.5	978.6	1154.7	1159.2	1174.8	1248.3
55°	1183.7	985.3	795.8	590.7	720.0	778.0	885.0	1081.2	1090.1	1105.7	1172.5
57.5°	1058.9	820.3	782.5	530.6	615.2	671.0	802.5	1009.9	1014.3	1027.7	1092.3
60°	925.1	592.9	717.8	465.9	523.9	566.2	726.7	925.1	940.7	949.6	1005.4
62.5°	773.5	430.3	650.9	421.3	479.3	488.2	664.3	844.8	865.0	871.6	905.1
65°	550.6	361.2	552.9	383.5	432.5	434.7	597.4	762.4	780.2	791.3	815.9
67.5°	372.3	294.2	421.3	347.7	396.8	399.0	532.8	666.5	691.0	700.0	715.6
70°	258.6	196.2	312.1	309.9	356.7	361.2	463.7	579.6	601.9	608.6	617.5
72.5°	189.4	158.3	258.6	278.7	314.3	318.8	392.3	481.5	503.8	510.5	514.9
75°	144.9	167.2	209.6	243.0	267.5	269.7	321.0	392.3	408.0	412.5	414.6
77.5°	115.9	156.1	153.8	196.2	218.4	214.0	251.9	303.2	316.5	316.5	316.5
80°	87.0	122.6	115.9	140.4	160.5	156.1	180.6	216.2	220.7	225.1	222.9
82.5°	64.6	78.0	78.0	89.1	107.0	102.6	120.4	140.4	140.4	140.4	144.9
85°	40.1	44.6	35.7	46.8	60.2	58.0	66.8	75.8	78.0	78.0	73.6
87.5°	24.5	20.0	11.2	17.8	26.8	26.8	31.2	33.5	31.2	31.2	31.2
90°	3.4	2.4	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7
92.5°	23.2	14.2	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5
95°	45.5	29.1	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7
97.5°	50.9	36.4	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3
100°	55.3	42.2	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6
102.5°	59.6	47.4	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2
105°	66.1	55.8	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8
107.5°	75.3	65.6	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0
110°	80.5	71.8	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6



TEST NUMBER: P934161

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	86.7	78.4	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1
115°	96.0	88.4	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1
117.5°	105.0	98.0	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8
120°	110.2	103.7	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3
122.5°	116.3	109.7	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1
125°	124.3	118.2	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3
127.5°	131.7	125.6	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4
130°	136.6	130.1	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4
132.5°	140.7	134.2	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1
135°	145.6	139.6	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1
137.5°	151.7	145.8	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6
140°	155.9	150.5	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5
142.5°	159.1	154.0	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8
145°	163.8	159.4	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1
147.5°	169.7	165.4	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1
150°	172.8	168.9	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7
152.5°	175.0	172.1	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0
155°	179.6	177.4	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8
157.5°	183.9	181.8	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9
160°	186.0	184.4	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5
162.5°	188.2	187.0	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2
165°	191.3	190.2	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2
167.5°	193.1	192.6	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8
170°	195.2	194.6	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8
172.5°	195.4	195.2	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1
175°	196.7	196.7	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1
177.5°	196.7	196.7	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P934161

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2273.8	2267.2	2276.0	2251.5	2276.0	2267.2	2273.8	2289.4	2276.0	2285.0	2293.9
5°	1995.1	1984.0	1948.3	1919.4	1948.3	1984.0	1995.1	2042.0	2064.3	2104.4	2157.9
7.5°	1783.4	1774.4	1765.6	1747.7	1765.6	1774.4	1783.4	1796.7	1819.0	1854.7	1894.8
10°	1736.6	1738.8	1752.2	1749.9	1752.2	1738.8	1736.6	1732.1	1725.4	1732.1	1756.6
12.5°	1857.0	1877.0	1950.6	1946.1	1950.6	1877.0	1857.0	1767.8	1707.6	1696.4	1700.9
15°	1995.1	2001.8	2017.5	2019.7	2017.5	2001.8	1995.1	1959.5	1778.9	1700.9	1676.4
17.5°	2008.5	2010.8	2021.9	2021.9	2021.9	2010.8	2008.5	1993.0	1932.7	1828.0	1689.8
20°	1997.4	2001.8	2024.1	2028.6	2024.1	2001.8	1997.4	1977.3	1943.9	1906.0	1801.2
22.5°	1993.0	2001.8	2019.7	2017.5	2019.7	2001.8	1993.0	1961.7	1932.7	1906.0	1863.7
25°	1970.6	1970.6	1972.8	1975.1	1972.8	1970.6	1970.6	1946.1	1888.2	1881.5	1857.0
27.5°	1923.8	1928.3	1941.7	1939.5	1941.7	1928.3	1923.8	1914.9	1852.5	1845.8	1828.0
30°	1881.5	1877.0	1865.9	1857.0	1865.9	1877.0	1881.5	1868.1	1805.7	1787.9	1792.3
32.5°	1810.2	1799.0	1787.9	1781.2	1787.9	1799.0	1810.2	1805.7	1758.9	1734.4	1738.8
35°	1725.4	1727.6	1725.4	1718.7	1725.4	1727.6	1725.4	1729.9	1700.9	1678.6	1676.4
37.5°	1665.3	1669.7	1667.5	1658.6	1667.5	1669.7	1665.3	1660.8	1620.6	1614.0	1618.4
40°	1602.8	1605.0	1602.8	1596.1	1602.8	1605.0	1602.8	1593.9	1538.2	1540.4	1556.0
42.5°	1542.6	1540.4	1533.7	1529.2	1533.7	1540.4	1542.6	1529.2	1457.9	1451.2	1480.2
45°	1473.5	1475.7	1462.4	1455.7	1462.4	1475.7	1473.5	1464.6	1391.1	1373.2	1393.2
47.5°	1404.4	1404.4	1393.2	1386.6	1393.2	1404.4	1404.4	1393.2	1315.3	1297.4	1308.6
50°	1330.9	1328.6	1313.1	1310.8	1313.1	1328.6	1330.9	1324.1	1241.7	1226.1	1226.1
52.5°	1246.1	1246.1	1248.3	1252.8	1248.3	1246.1	1246.1	1248.3	1174.8	1159.2	1154.7
55°	1172.5	1174.8	1190.4	1194.8	1190.4	1174.8	1172.5	1172.5	1105.7	1090.1	1081.2
57.5°	1096.8	1096.8	1107.9	1107.9	1107.9	1096.8	1096.8	1092.3	1027.7	1014.3	1009.9
60°	1009.9	1014.3	1023.2	1021.0	1023.2	1014.3	1009.9	1005.4	949.6	940.7	925.1
62.5°	918.4	922.9	925.1	920.6	925.1	922.9	918.4	905.1	871.6	865.0	844.8
65°	822.6	827.0	829.3	824.8	829.3	827.0	822.6	815.9	791.3	780.2	762.4
67.5°	724.5	722.2	720.0	729.0	720.0	722.2	724.5	715.6	700.0	691.0	666.5
70°	624.2	624.2	621.9	626.4	621.9	624.2	624.2	617.5	608.6	601.9	579.6
72.5°	517.1	514.9	523.9	517.1	523.9	514.9	517.1	514.9	510.5	503.8	481.5
75°	412.5	416.8	412.5	419.1	412.5	416.8	412.5	414.6	412.5	408.0	392.3
77.5°	314.3	318.8	314.3	314.3	314.3	318.8	314.3	316.5	316.5	316.5	303.2
80°	222.9	220.7	220.7	218.4	220.7	220.7	222.9	222.9	225.1	220.7	216.2
82.5°	142.6	140.4	140.4	144.9	140.4	140.4	142.6	144.9	140.4	140.4	140.4
85°	78.0	80.3	75.8	75.8	75.8	80.3	78.0	73.6	78.0	78.0	75.8
87.5°	29.0	26.8	26.8	26.8	26.8	26.8	29.0	31.2	31.2	31.2	33.5
90°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.7	8.9	10.0	8.6
92.5°	25.0	24.1	20.0	16.1	20.0	24.1	25.0	35.5	49.4	56.5	49.6
95°	85.1	82.1	70.0	58.0	70.0	82.1	85.1	111.7	147.3	165.0	139.4
97.5°	196.5	190.8	167.8	144.7	167.8	190.8	196.5	213.3	235.7	247.0	204.2
100°	275.9	269.0	241.7	214.3	241.7	269.0	275.9	274.6	273.0	272.2	224.8
102.5°	343.8	337.9	314.4	291.0	314.4	337.9	343.8	322.2	293.6	279.3	231.2
105°	422.9	419.7	407.2	394.5	407.2	419.7	422.9	374.8	310.6	278.5	231.9
107.5°	464.1	464.9	467.9	470.9	467.9	464.9	464.1	397.0	307.5	262.7	221.6
110°	474.6	477.9	491.1	504.2	491.1	477.9	474.6	399.6	299.6	249.5	212.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	467.9	472.9	493.1	513.3	493.1	472.9	467.9	391.1	288.7	237.5	204.5
115°	445.0	452.1	480.0	508.0	480.0	452.1	445.0	371.1	272.4	223.1	195.2
117.5°	413.5	421.2	452.3	483.3	452.3	421.2	413.5	346.8	257.8	213.3	189.5
120°	392.3	399.9	430.0	460.1	430.0	399.9	392.3	331.3	250.0	209.3	187.7
122.5°	371.1	378.5	408.2	437.9	408.2	378.5	371.1	316.1	242.9	206.2	186.6
125°	343.0	349.8	377.1	404.5	377.1	349.8	343.0	296.3	234.1	203.0	185.8
127.5°	320.4	326.2	349.3	372.4	349.3	326.2	320.4	280.4	226.9	200.2	185.3
130°	306.1	311.4	332.8	354.1	332.8	311.4	306.1	270.4	222.9	199.1	185.6
132.5°	294.0	298.7	317.9	337.0	317.9	298.7	294.0	262.1	219.5	198.2	185.8
135°	276.8	281.0	297.4	313.9	297.4	281.0	276.8	250.1	214.5	196.7	185.7
137.5°	264.2	267.5	281.1	294.5	281.1	267.5	264.2	241.6	211.5	196.4	186.8
140°	254.0	257.2	269.7	282.4	269.7	257.2	254.0	234.5	208.4	195.4	187.0
142.5°	246.9	249.6	260.4	271.3	260.4	249.6	246.9	229.8	206.8	195.4	187.6
145°	236.2	238.2	246.5	254.7	246.5	238.2	236.2	222.1	203.4	194.1	187.6
147.5°	227.2	228.9	235.7	242.5	235.7	228.9	227.2	216.1	201.5	194.1	188.9
150°	222.0	223.4	229.0	234.5	229.0	223.4	222.0	212.7	200.3	194.1	189.6
152.5°	218.0	219.0	223.2	227.4	223.2	219.0	218.0	210.0	199.4	194.1	190.1
155°	213.1	213.8	216.5	219.3	216.5	213.8	213.1	206.8	198.3	194.1	191.0
157.5°	208.9	209.4	211.3	213.3	211.3	209.4	208.9	203.9	197.4	194.1	192.0
160°	206.8	207.0	208.2	209.3	208.2	207.0	206.8	202.5	196.9	194.1	192.4
162.5°	204.8	205.1	206.1	207.2	206.1	205.1	204.8	201.2	196.5	194.1	192.9
165°	201.7	202.0	203.2	204.3	203.2	202.0	201.7	199.2	195.8	194.1	193.6
167.5°	200.4	200.5	201.0	201.5	201.0	200.5	200.4	198.8	196.6	195.4	195.0
170°	200.4	200.4	200.4	200.4	200.4	200.4	200.4	198.8	196.6	195.4	195.4
172.5°	199.4	199.3	198.8	198.5	198.8	199.3	199.4	198.1	196.3	195.4	195.4
175°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	197.1	195.9	195.4	195.7
177.5°	197.7	197.6	197.1	196.7	197.1	197.6	197.7	197.0	196.1	195.7	195.9
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2327.3	2338.5	2345.2	2354.1	2376.3
5°	2238.2	2280.5	2293.9	2327.3	2367.5
7.5°	2042.0	2171.2	2206.9	2287.2	2349.6
10°	1852.5	1981.8	2044.2	2233.7	2327.3
12.5°	1756.6	1832.4	1874.8	2140.1	2296.1
15°	1696.4	1749.9	1781.2	2015.3	2260.5
17.5°	1649.6	1687.6	1709.8	1892.7	2211.4
20°	1620.6	1638.5	1658.6	1803.4	2155.7
22.5°	1600.6	1589.5	1605.0	1741.1	2079.9
25°	1587.2	1544.8	1562.7	1692.0	1990.7
27.5°	1598.3	1504.7	1511.4	1647.4	1897.0
30°	1600.6	1455.7	1457.9	1600.6	1792.3
32.5°	1585.0	1404.4	1406.7	1542.6	1674.1
35°	1547.1	1344.2	1342.0	1475.7	1513.7
37.5°	1495.8	1279.6	1279.6	1402.2	1337.6
40°	1433.4	1215.0	1221.6	1306.3	1181.5
42.5°	1357.6	1145.8	1154.7	1179.3	1065.6
45°	1275.1	1078.9	1085.7	996.4	976.4
47.5°	1183.7	1009.9	1012.1	827.0	947.4
50°	1074.5	938.5	929.6	708.9	945.2
52.5°	978.6	860.5	833.8	642.0	858.3
55°	885.0	778.0	720.0	590.7	795.8
57.5°	802.5	671.0	615.2	530.6	782.5
60°	726.7	566.2	523.9	465.9	717.8
62.5°	664.3	488.2	479.3	421.3	650.9
65°	597.4	434.7	432.5	383.5	552.9
67.5°	532.8	399.0	396.8	347.7	421.3
70°	463.7	361.2	356.7	309.9	312.1
72.5°	392.3	318.8	314.3	278.7	258.6
75°	321.0	269.7	267.5	243.0	209.6
77.5°	251.9	214.0	218.4	196.2	153.8
80°	180.6	156.1	160.5	140.4	115.9
82.5°	120.4	102.6	107.0	89.1	78.0
85°	66.8	58.0	60.2	46.8	35.7
87.5°	31.2	26.8	26.8	17.8	11.2
90°	5.8	3.7	3.4	2.4	1.3
92.5°	35.8	25.5	23.2	14.2	5.3
95°	88.1	49.6	45.5	29.1	12.6
97.5°	118.7	54.5	50.9	36.4	21.9
100°	129.8	58.6	55.3	42.2	29.1
102.5°	134.9	62.7	59.6	47.4	35.1
105°	138.7	68.8	66.1	55.8	45.4
107.5°	139.4	77.7	75.3	65.6	55.9
110°	138.3	82.7	80.5	71.8	63.1



TEST NUMBER: P934161

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	138.3	88.8	86.7	78.4	70.1
115°	139.6	97.9	96.0	88.4	80.6
117.5°	142.2	106.7	105.0	98.0	91.1
120°	144.4	111.9	110.2	103.7	97.1
122.5°	147.4	118.0	116.3	109.7	103.0
125°	151.5	125.8	124.3	118.2	112.2
127.5°	155.5	133.2	131.7	125.6	119.5
130°	158.5	138.2	136.6	130.1	123.5
132.5°	161.0	142.4	140.7	134.2	127.6
135°	163.6	147.1	145.6	139.6	133.7
137.5°	167.6	153.2	151.7	145.8	139.9
140°	170.0	157.3	155.9	150.5	145.0
142.5°	172.0	160.3	159.1	154.0	149.0
145°	174.7	164.9	163.8	159.4	155.0
147.5°	178.6	170.7	169.7	165.4	161.1
150°	180.6	173.8	172.8	168.9	165.0
152.5°	181.9	175.7	175.0	172.1	169.2
155°	184.8	180.1	179.6	177.4	175.2
157.5°	187.7	184.4	183.9	181.8	179.7
160°	189.0	186.5	186.0	184.4	182.8
162.5°	190.4	188.6	188.2	187.0	185.8
165°	192.4	191.6	191.3	190.2	189.1
167.5°	194.0	193.3	193.1	192.6	192.1
170°	195.3	195.2	195.2	194.6	194.1
172.5°	195.4	195.4	195.4	195.2	195.2
175°	196.2	196.7	196.7	196.7	196.7
177.5°	196.3	196.7	196.7	196.7	196.7
180°	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P934161

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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	16.72	17.98	17.34	18.61	19.32	19.55	20.81	20.16	21.43	22.14
	3H	17.23	18.36	17.86	19.00	19.74	20.92	22.05	21.55	22.69	23.43
	4H	17.44	18.50	18.09	19.15	19.91	21.38	22.45	22.03	23.10	23.86
	6H	17.58	18.56	18.24	19.22	20.00	21.68	22.67	22.35	23.33	24.10
	8H	17.59	18.53	18.26	19.21	19.99	21.77	22.71	22.44	23.39	24.17
	12H	17.57	18.47	18.25	19.14	19.95	21.82	22.72	22.50	23.39	24.20
4H	2H	17.80	18.87	18.45	19.52	20.28	20.00	21.07	20.65	21.72	22.48
	3H	18.86	19.75	19.53	20.44	21.22	21.54	22.43	22.21	23.12	23.90
	4H	19.16	19.96	19.84	20.65	21.46	22.09	22.89	22.77	23.58	24.40
	6H	19.30	20.00	20.00	20.72	21.54	22.47	23.17	23.17	23.89	24.71
	8H	19.32	19.97	20.02	20.69	21.52	22.59	23.24	23.29	23.96	24.79
	12H	19.30	19.89	20.03	20.63	21.47	22.66	23.25	23.39	23.99	24.83
8H	4H	19.64	20.29	20.35	21.01	21.84	22.24	22.90	22.95	23.61	24.44
	6H	19.92	20.46	20.65	21.22	22.05	22.69	23.24	23.43	23.99	24.83
	8H	19.96	20.45	20.71	21.21	22.06	22.85	23.33	23.60	24.09	24.94
	12H	19.97	20.39	20.72	21.14	22.05	22.96	23.39	23.71	24.14	25.05
12H	4H	19.67	20.25	20.39	20.99	21.83	22.23	22.81	22.95	23.55	24.39
	6H	19.98	20.47	20.73	21.23	22.08	22.69	23.18	23.44	23.94	24.79
	8H	20.07	20.49	20.82	21.24	22.15	22.87	23.30	23.62	24.05	24.96