

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: P936068

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

**Test Information**

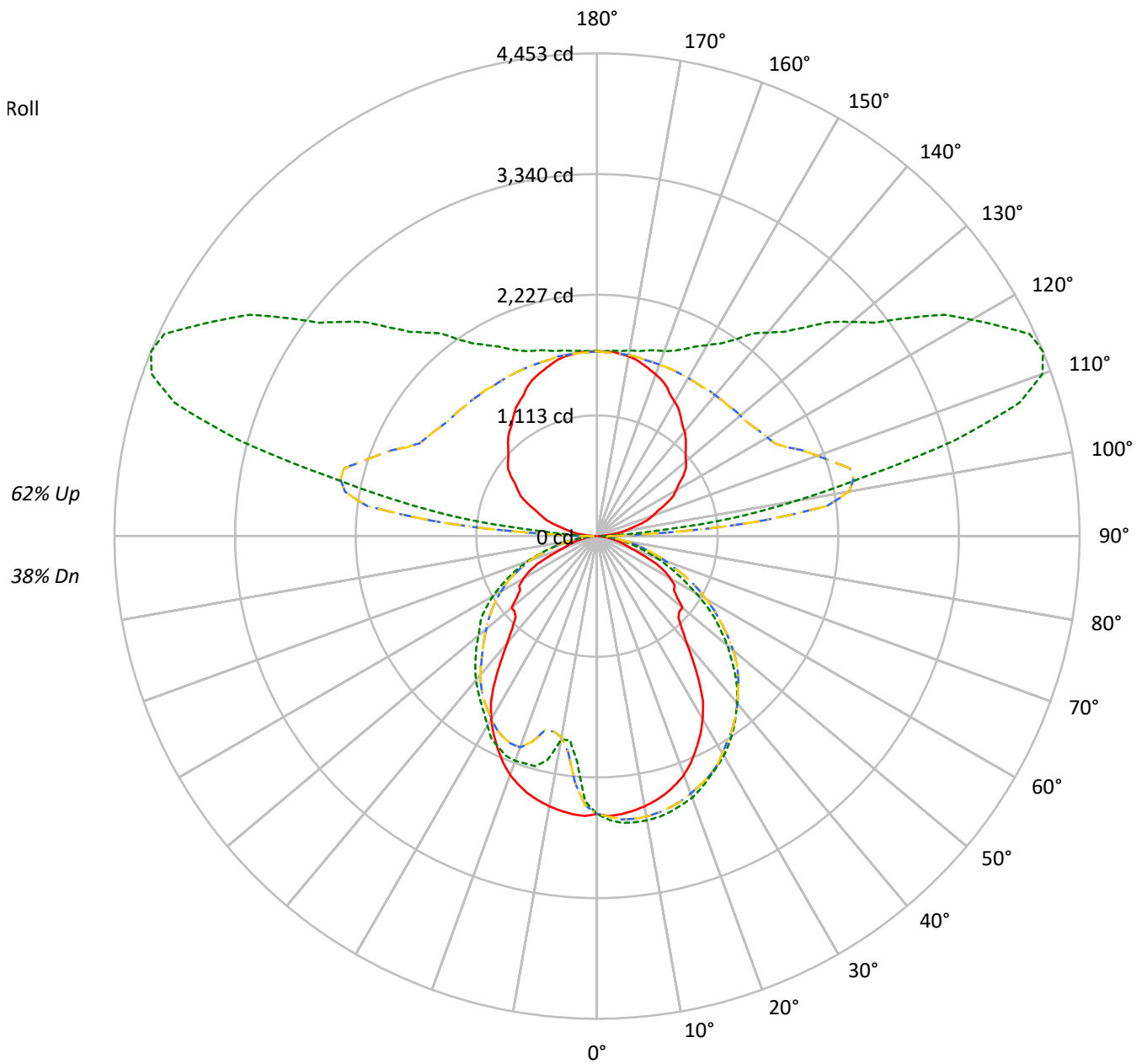
Test Method: LM-79-2019  
Report Number: P936068  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17709.7 lumens  
Efficiency: N/A  
Efficacy: 122.3 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-Indirect  
  
Input Watts (W): 144.8  
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27			27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19			19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10			10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9			9

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

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11981	12005	11981	9439
10°	11901	11825	11901	8454
15°	11772	11569	11772	9661
20°	11526	11266	11526	9681
25°	11021	10823	11021	9475
30°	10370	10455	10370	9025
35°	9245	9991	9245	8530
40°	7703	9443	7703	8156
45°	6883	8803	6883	7726
50°	7313	8039	7313	7294
55°	6881	7215	6881	7045
60°	7093	6128	7093	6453
65°	6430	5066	6430	5662
70°	4453	4037	4453	4747
75°	3905	2985	3905	3574
80°	3146	1973	3146	2149
85°	1807	1045	1807	888

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10549 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.4	1.3
10°-20°	656.9	3.7
20°-30°	1015.5	5.7
30°-40°	1212.3	6.8
40°-50°	1219.4	6.9
50°-60°	1061.0	6.0
60°-70°	752.3	4.2
70°-80°	398.0	2.2
80°-90°	105.6	0.6
90°-100°	831.4	4.7
100°-110°	2185.9	12.3
110°-120°	2266.5	12.8
120°-130°	1818.0	10.3
130°-140°	1426.5	8.1
140°-150°	1094.9	6.2
150°-160°	788.5	4.5
160°-170°	482.5	2.7
170°-180°	163.0	0.9
0°-30°	1903.8	10.8
0°-40°	3116.1	17.6
0°-60°	5396.5	30.5
0°-90°	6652.5	37.6
90°-120°	5283.8	29.8
90°-150°	9623.2	54.3
90°-180°	11057.0	62.4
0°-180°	17709.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2563	2563	2563	2563	2563	
5°	2575	2655	2575	2088	2575	244
15°	2459	2631	2459	2197	2459	692
25°	2166	2454	2166	2148	2166	994
35°	1646	2190	1646	1870	1646	1019
45°	1062	1804	1062	1584	1062	851
55°	866	1331	866	1300	866	796
65°	601	803	601	897	601	575
75°	228	381	228	456	228	240
85°	39	97	39	82	39	52
90°	12	44	12	44	12	11
95°	110	502	110	502	110	122
105°	394	3423	394	3423	394	417
115°	700	4407	700	4407	700	691
125°	973	3510	973	3510	973	864
135°	1160	2723	1160	2723	1160	897
145°	1345	2209	1345	2209	1345	843
155°	1520	1903	1520	1903	1520	699
165°	1640	1772	1640	1772	1640	463
175°	1706	1717	1706	1717	1706	162
180°	1706	1706	1706	1706	1706	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2585.1	2585.1	2599.6	2604.4	2604.4	2597.2	2589.9	2597.2	2619.0	2626.3	2623.9
5°	2575.3	2594.7	2621.4	2626.3	2631.1	2628.6	2623.9	2628.6	2653.0	2657.8	2660.2
7.5°	2556.0	2592.3	2626.3	2633.5	2640.9	2633.5	2631.1	2636.0	2660.2	2665.1	2665.1
10°	2531.6	2582.6	2621.4	2626.3	2633.5	2626.3	2626.3	2636.0	2660.2	2665.1	2667.5
12.5°	2497.7	2568.1	2604.4	2609.3	2619.0	2616.5	2614.1	2623.9	2648.1	2653.0	2653.0
15°	2459.0	2541.4	2575.3	2580.2	2597.2	2592.3	2592.3	2602.0	2628.6	2636.0	2633.5
17.5°	2405.6	2507.4	2546.2	2553.5	2565.6	2563.2	2565.6	2575.3	2599.6	2604.4	2606.9
20°	2345.0	2461.3	2507.4	2514.7	2526.9	2526.9	2526.9	2539.0	2563.2	2572.9	2572.9
22.5°	2262.5	2412.9	2461.3	2466.2	2480.7	2480.7	2485.6	2502.6	2524.4	2526.9	2526.9
25°	2165.5	2359.5	2400.7	2415.3	2429.9	2437.1	2444.4	2454.1	2461.3	2459.0	2461.3
27.5°	2063.6	2291.6	2345.0	2354.6	2374.1	2381.3	2391.1	2393.4	2395.9	2403.2	2398.3
30°	1949.6	2197.1	2277.1	2286.8	2318.3	2323.1	2313.4	2318.3	2330.4	2335.3	2340.1
32.5°	1821.2	2056.4	2206.8	2228.5	2257.6	2243.1	2240.6	2248.0	2267.3	2267.3	2272.2
35°	1646.5	1947.3	2141.3	2160.6	2182.5	2165.5	2175.2	2177.6	2189.8	2197.1	2194.6
37.5°	1455.0	1852.6	2073.3	2087.9	2104.9	2083.1	2097.6	2104.9	2114.6	2109.8	2109.8
40°	1285.2	1704.8	1993.3	2003.1	2017.6	2000.6	2015.2	2020.0	2024.9	2020.0	2017.6
42.5°	1159.1	1542.3	1908.4	1920.6	1910.9	1923.0	1927.9	1937.5	1930.3	1920.6	1920.6
45°	1062.1	1498.6	1816.3	1830.9	1816.3	1835.8	1843.0	1843.0	1821.2	1816.3	1813.9
47.5°	1030.7	1411.3	1724.2	1724.2	1716.9	1741.1	1753.3	1736.3	1714.4	1707.2	1707.2
50°	1028.2	1314.3	1598.1	1588.3	1622.3	1651.4	1639.3	1622.3	1605.3	1578.6	1578.6
52.5°	933.7	1195.5	1435.6	1472.0	1525.3	1542.3	1522.9	1505.9	1476.8	1464.7	1455.0
55°	865.8	1071.9	1287.7	1360.4	1416.2	1438.0	1401.6	1384.7	1341.0	1333.8	1328.9
57.5°	851.2	892.4	1151.9	1244.0	1311.9	1309.5	1287.7	1256.1	1219.8	1212.5	1210.1
60°	780.9	645.0	1006.3	1115.5	1185.8	1178.5	1159.1	1130.0	1096.1	1091.2	1086.4
62.5°	708.1	468.0	841.4	965.1	1064.5	1062.1	1045.2	1001.5	977.3	965.1	955.4
65°	601.4	392.9	599.0	802.7	945.8	950.5	914.2	882.7	856.0	841.4	839.0
67.5°	458.3	320.1	405.0	669.3	831.8	826.9	780.9	766.3	732.3	725.1	710.5
70°	339.5	213.4	281.3	543.2	720.2	708.1	671.8	654.8	623.2	606.2	596.5
72.5°	281.3	172.2	206.1	422.0	606.2	591.7	560.2	540.8	514.1	499.5	489.9
75°	228.0	181.9	157.7	312.8	492.3	482.6	453.4	434.1	412.2	392.9	395.3
77.5°	167.3	169.8	126.1	230.3	390.4	375.9	358.9	334.7	325.0	305.6	305.6
80°	126.1	133.3	94.6	157.7	281.3	281.3	266.8	249.8	232.8	223.1	223.1
82.5°	84.9	84.9	70.3	99.4	191.6	184.3	174.6	169.8	160.0	155.2	155.2
85°	38.8	48.5	43.7	60.7	104.3	109.1	109.1	104.3	101.9	97.0	99.4
87.5°	12.1	21.8	26.7	34.0	53.3	55.8	58.2	58.2	58.2	60.7	60.7
90°	11.5	20.6	29.7	32.0	50.4	74.8	87.0	77.4	58.0	43.5	43.5
92.5°	45.8	123.6	201.5	221.0	310.6	430.2	490.0	429.4	308.3	217.5	208.9
95°	109.9	252.4	394.8	430.4	764.3	1209.4	1432.1	1277.9	969.6	738.4	712.1
97.5°	190.1	315.7	441.4	472.8	1029.6	1771.9	2143.0	2045.5	1850.7	1704.5	1654.7
100°	251.8	365.8	479.8	508.3	1126.1	1949.7	2361.6	2368.8	2383.0	2393.6	2334.2
102.5°	304.5	410.9	517.1	543.7	1170.3	2005.7	2423.4	2547.6	2795.8	2982.0	2931.2
105°	393.8	483.8	573.9	596.4	1203.1	2012.0	2416.6	2694.9	3251.5	3668.9	3641.6
107.5°	485.4	569.3	653.2	674.2	1209.2	1922.6	2279.2	2667.4	3443.8	4026.1	4032.7
110°	547.2	623.0	698.8	717.7	1200.1	1843.2	2164.8	2598.7	3466.7	4117.7	4146.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	607.9	680.1	752.3	770.4	1200.4	1773.8	2060.5	2504.7	3393.0	4059.2	4103.0
115°	699.5	766.1	832.7	849.4	1211.5	1694.3	1935.8	2363.6	3219.4	3861.2	3921.9
117.5°	789.9	850.4	911.0	926.1	1234.0	1644.6	1849.9	2236.1	3008.4	3587.6	3654.9
120°	842.5	899.5	956.5	970.7	1252.4	1627.8	1815.6	2168.4	2874.1	3403.4	3468.7
122.5°	894.0	951.6	1009.0	1023.4	1278.7	1619.1	1789.2	2106.9	2742.4	3219.0	3283.5
125°	973.0	1025.4	1077.8	1091.0	1314.1	1611.7	1760.6	2030.5	2570.3	2975.2	3034.5
127.5°	1037.2	1090.0	1143.0	1156.2	1349.7	1607.6	1736.6	1968.3	2431.8	2779.4	2829.5
130°	1071.5	1128.5	1185.5	1199.7	1375.6	1610.1	1727.4	1933.7	2346.4	2655.8	2702.2
132.5°	1107.0	1164.0	1221.0	1235.2	1396.6	1611.8	1719.4	1904.0	2273.4	2550.5	2591.9
135°	1159.6	1211.5	1263.5	1276.4	1419.5	1610.3	1705.6	1860.4	2169.7	2401.7	2437.4
137.5°	1213.5	1264.9	1316.2	1329.0	1453.8	1620.2	1703.4	1834.2	2095.6	2291.8	2321.0
140°	1258.1	1305.4	1352.7	1364.5	1474.8	1621.8	1695.3	1808.3	2034.3	2203.7	2231.0
142.5°	1292.4	1336.2	1379.9	1390.9	1492.4	1627.7	1695.3	1794.6	1993.0	2141.8	2165.3
145°	1345.1	1383.2	1421.4	1431.0	1515.3	1627.7	1683.9	1765.0	1927.3	2049.1	2066.9
147.5°	1397.7	1434.9	1472.1	1481.3	1548.9	1638.9	1683.9	1747.8	1875.4	1971.2	1986.0
150°	1432.1	1465.7	1499.2	1507.6	1566.3	1644.7	1683.9	1737.8	1845.7	1926.6	1938.5
152.5°	1467.6	1493.0	1518.5	1524.8	1577.9	1648.5	1683.9	1729.9	1822.0	1891.1	1900.1
155°	1520.3	1539.1	1557.9	1562.6	1603.0	1656.9	1683.9	1720.5	1793.8	1848.8	1854.8
157.5°	1559.2	1577.5	1595.8	1600.4	1628.2	1665.3	1683.9	1712.4	1769.4	1812.2	1816.4
160°	1585.5	1599.7	1614.0	1617.5	1639.6	1669.1	1683.9	1708.3	1757.2	1793.8	1796.2
162.5°	1611.8	1622.5	1633.2	1635.9	1651.9	1673.2	1683.9	1704.5	1745.7	1776.7	1779.0
165°	1640.4	1650.0	1659.7	1662.1	1669.4	1679.0	1683.9	1698.7	1728.2	1750.3	1752.7
167.5°	1666.7	1671.3	1675.9	1677.1	1683.1	1691.3	1695.3	1705.0	1724.3	1738.8	1739.9
170°	1683.9	1688.5	1693.1	1694.2	1694.6	1695.1	1695.3	1705.0	1724.3	1738.8	1738.8
172.5°	1693.1	1694.1	1695.1	1695.3	1695.3	1695.3	1695.3	1703.0	1718.2	1729.7	1728.8
175°	1705.6	1705.6	1705.6	1705.6	1702.2	1697.6	1695.3	1700.2	1709.8	1717.1	1717.1
177.5°	1705.6	1705.6	1705.6	1705.6	1703.0	1699.4	1697.6	1701.5	1709.1	1714.8	1713.8
180°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2628.6	2621.4	2628.6	2623.9	2626.3	2619.0	2597.2	2589.9	2597.2	2604.4	2604.4
5°	2660.2	2655.4	2660.2	2660.2	2657.8	2653.0	2628.6	2623.9	2628.6	2631.1	2626.3
7.5°	2669.9	2662.6	2669.9	2665.1	2665.1	2660.2	2636.0	2631.1	2633.5	2640.9	2633.5
10°	2669.9	2662.6	2669.9	2667.5	2665.1	2660.2	2636.0	2626.3	2626.3	2633.5	2626.3
12.5°	2657.8	2653.0	2657.8	2653.0	2653.0	2648.1	2623.9	2614.1	2616.5	2619.0	2609.3
15°	2638.4	2631.1	2638.4	2633.5	2636.0	2628.6	2602.0	2592.3	2592.3	2597.2	2580.2
17.5°	2609.3	2599.6	2609.3	2606.9	2604.4	2599.6	2575.3	2565.6	2563.2	2565.6	2553.5
20°	2575.3	2568.1	2575.3	2572.9	2572.9	2563.2	2539.0	2526.9	2526.9	2526.9	2514.7
22.5°	2522.0	2514.7	2522.0	2526.9	2526.9	2524.4	2502.6	2485.6	2480.7	2480.7	2466.2
25°	2461.3	2454.1	2461.3	2461.3	2459.0	2461.3	2454.1	2444.4	2437.1	2429.9	2415.3
27.5°	2403.2	2398.3	2403.2	2398.3	2403.2	2395.9	2393.4	2391.1	2381.3	2374.1	2354.6
30°	2345.0	2340.1	2345.0	2340.1	2335.3	2330.4	2318.3	2313.4	2323.1	2318.3	2286.8
32.5°	2272.2	2267.3	2272.2	2272.2	2267.3	2267.3	2248.0	2240.6	2243.1	2257.6	2228.5
35°	2197.1	2189.8	2197.1	2194.6	2197.1	2189.8	2177.6	2175.2	2165.5	2182.5	2160.6
37.5°	2109.8	2102.4	2109.8	2109.8	2109.8	2114.6	2104.9	2097.6	2083.1	2104.9	2087.9
40°	2020.0	2010.3	2020.0	2017.6	2020.0	2024.9	2020.0	2015.2	2000.6	2017.6	2003.1
42.5°	1918.2	1915.8	1918.2	1920.6	1920.6	1930.3	1937.5	1927.9	1923.0	1910.9	1920.6
45°	1809.1	1804.2	1809.1	1813.9	1816.3	1821.2	1843.0	1843.0	1835.8	1816.3	1830.9
47.5°	1692.6	1680.5	1692.6	1707.2	1707.2	1714.4	1736.3	1753.3	1741.1	1716.9	1724.2
50°	1569.0	1571.4	1569.0	1578.6	1578.6	1605.3	1622.3	1639.3	1651.4	1622.3	1588.3
52.5°	1447.8	1445.3	1447.8	1455.0	1464.7	1476.8	1505.9	1522.9	1542.3	1525.3	1472.0
55°	1326.4	1331.3	1326.4	1328.9	1333.8	1341.0	1384.7	1401.6	1438.0	1416.2	1360.4
57.5°	1205.2	1198.0	1205.2	1210.1	1212.5	1219.8	1256.1	1287.7	1309.5	1311.9	1244.0
60°	1064.5	1054.9	1064.5	1086.4	1091.2	1096.1	1130.0	1159.1	1178.5	1185.8	1115.5
62.5°	940.9	923.9	940.9	955.4	965.1	977.3	1001.5	1045.2	1062.1	1064.5	965.1
65°	810.0	802.7	810.0	839.0	841.4	856.0	882.7	914.2	950.5	945.8	802.7
67.5°	691.1	691.1	691.1	710.5	725.1	732.3	766.3	780.9	826.9	831.8	669.3
70°	582.0	579.6	582.0	596.5	606.2	623.2	654.8	671.8	708.1	720.2	543.2
72.5°	477.8	475.3	477.8	489.9	499.5	514.1	540.8	560.2	591.7	606.2	422.0
75°	385.6	380.8	385.6	395.3	392.9	412.2	434.1	453.4	482.6	492.3	312.8
77.5°	295.9	295.9	295.9	305.6	305.6	325.0	334.7	358.9	375.9	390.4	230.3
80°	220.7	218.2	220.7	223.1	223.1	232.8	249.8	266.8	281.3	281.3	157.7
82.5°	155.2	150.3	155.2	155.2	155.2	160.0	169.8	174.6	184.3	191.6	99.4
85°	97.0	97.0	97.0	99.4	97.0	101.9	104.3	109.1	109.1	104.3	60.7
87.5°	63.0	60.7	63.0	60.7	60.7	58.2	58.2	58.2	55.8	53.3	34.0
90°	43.5	43.5	43.5	43.5	43.5	58.0	77.4	87.0	74.8	50.4	32.0
92.5°	174.3	139.7	174.3	208.9	217.5	308.3	429.4	490.0	430.2	310.6	221.0
95°	607.3	502.5	607.3	712.1	738.4	969.6	1277.9	1432.1	1209.4	764.3	430.4
97.5°	1455.2	1255.8	1455.2	1654.7	1704.5	1850.7	2045.5	2143.0	1771.9	1029.6	472.8
100°	2096.7	1859.1	2096.7	2334.2	2393.6	2383.0	2368.8	2361.6	1949.7	1126.1	508.3
102.5°	2727.7	2524.2	2727.7	2931.2	2982.0	2795.8	2547.6	2423.4	2005.7	1170.3	543.7
105°	3532.2	3422.8	3532.2	3641.6	3668.9	3251.5	2694.9	2416.6	2012.0	1203.1	596.4
107.5°	4059.1	4085.6	4059.1	4032.7	4026.1	3443.8	2667.4	2279.2	1922.6	1209.2	674.2
110°	4260.1	4374.1	4260.1	4146.1	4117.7	3466.7	2598.7	2164.8	1843.2	1200.1	717.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4278.0	4453.0	4278.0	4103.0	4059.2	3393.0	2504.7	2060.5	1773.8	1200.4	770.4
115°	4164.6	4407.2	4164.6	3921.9	3861.2	3219.4	2363.6	1935.8	1694.3	1211.5	849.4
117.5°	3924.1	4193.2	3924.1	3654.9	3587.6	3008.4	2236.1	1849.9	1644.6	1234.0	926.1
120°	3730.2	3991.7	3730.2	3468.7	3403.4	2874.1	2168.4	1815.6	1627.8	1252.4	970.7
122.5°	3541.5	3799.4	3541.5	3283.5	3219.0	2742.4	2106.9	1789.2	1619.1	1278.7	1023.4
125°	3272.2	3509.8	3272.2	3034.5	2975.2	2570.3	2030.5	1760.6	1611.7	1314.1	1091.0
127.5°	3030.0	3230.5	3030.0	2829.5	2779.4	2431.8	1968.3	1736.6	1607.6	1349.7	1156.2
130°	2887.3	3072.5	2887.3	2702.2	2655.8	2346.4	1933.7	1727.4	1610.1	1375.6	1199.7
132.5°	2757.8	2923.7	2757.8	2591.9	2550.5	2273.4	1904.0	1719.4	1611.8	1396.6	1235.2
135°	2580.4	2723.4	2580.4	2437.4	2401.7	2169.7	1860.4	1705.6	1610.3	1419.5	1276.4
137.5°	2438.0	2555.0	2438.0	2321.0	2291.8	2095.6	1834.2	1703.4	1620.2	1453.8	1329.0
140°	2340.4	2449.8	2340.4	2231.0	2203.7	2034.3	1808.3	1695.3	1621.8	1474.8	1364.5
142.5°	2259.5	2353.6	2259.5	2165.3	2141.8	1993.0	1794.6	1695.3	1627.7	1492.4	1390.9
145°	2138.1	2209.4	2138.1	2066.9	2049.1	1927.3	1765.0	1683.9	1627.7	1515.3	1431.0
147.5°	2045.0	2104.0	2045.0	1986.0	1971.2	1875.4	1747.8	1683.9	1638.9	1548.9	1481.3
150°	1986.4	2034.3	1986.4	1938.5	1926.6	1845.7	1737.8	1683.9	1644.7	1566.3	1507.6
152.5°	1936.2	1972.4	1936.2	1900.1	1891.1	1822.0	1729.9	1683.9	1648.5	1577.9	1524.8
155°	1878.7	1902.6	1878.7	1854.8	1848.8	1793.8	1720.5	1683.9	1656.9	1603.0	1562.6
157.5°	1833.1	1849.9	1833.1	1816.4	1812.2	1769.4	1712.4	1683.9	1665.3	1628.2	1600.4
160°	1805.9	1815.6	1805.9	1796.2	1793.8	1757.2	1708.3	1683.9	1669.1	1639.6	1617.5
162.5°	1788.0	1797.2	1788.0	1779.0	1776.7	1745.7	1704.5	1683.9	1673.2	1651.9	1635.9
165°	1762.4	1772.1	1762.4	1752.7	1750.3	1728.2	1698.7	1683.9	1679.0	1669.4	1662.1
167.5°	1744.0	1748.0	1744.0	1739.9	1738.8	1724.3	1705.0	1695.3	1691.3	1683.1	1677.1
170°	1738.8	1738.8	1738.8	1738.8	1738.8	1724.3	1705.0	1695.3	1695.1	1694.6	1694.2
172.5°	1725.3	1721.7	1725.3	1728.8	1729.7	1718.2	1703.0	1695.3	1695.3	1695.3	1695.3
175°	1717.1	1717.1	1717.1	1717.1	1717.1	1709.8	1700.2	1695.3	1697.6	1702.2	1705.6
177.5°	1709.7	1705.6	1709.7	1713.8	1714.8	1709.1	1701.5	1697.6	1699.4	1703.0	1705.6
180°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2599.6	2585.1	2585.1	2560.8	2551.1	2543.9	2531.6	2495.3	2485.6	2475.9	2490.4
5°	2621.4	2594.7	2575.3	2531.6	2495.3	2480.7	2434.6	2347.4	2289.2	2245.5	2221.3
7.5°	2626.3	2592.3	2556.0	2488.1	2400.7	2362.0	2221.3	2061.2	2017.6	1978.8	1954.5
10°	2621.4	2582.6	2531.6	2429.9	2223.7	2155.8	2015.2	1910.9	1884.2	1877.0	1884.2
12.5°	2604.4	2568.1	2497.7	2328.0	2039.4	1993.3	1910.9	1850.3	1845.4	1857.5	1923.0
15°	2575.3	2541.4	2459.0	2192.2	1937.5	1903.6	1845.4	1823.6	1850.3	1935.1	2131.5
17.5°	2546.2	2507.4	2405.6	2058.8	1860.0	1835.8	1794.5	1838.1	1988.5	2102.4	2168.0
20°	2507.4	2461.3	2345.0	1961.8	1804.2	1782.3	1763.0	1959.4	2073.3	2114.6	2151.0
22.5°	2461.3	2412.9	2262.5	1893.9	1746.0	1729.0	1741.1	2027.3	2073.3	2102.4	2134.0
25°	2400.7	2359.5	2165.5	1840.5	1699.9	1680.5	1726.6	2020.0	2046.6	2054.0	2117.0
27.5°	2345.0	2291.6	2063.6	1792.1	1644.1	1636.9	1738.8	1988.5	2007.9	2015.2	2083.1
30°	2277.1	2197.1	1949.6	1741.1	1586.0	1583.5	1741.1	1949.6	1944.9	1964.2	2032.1
32.5°	2206.8	2056.4	1821.2	1678.1	1530.2	1527.8	1724.2	1891.5	1886.6	1913.3	1964.2
35°	2141.3	1947.3	1646.5	1605.3	1459.9	1462.3	1683.0	1823.6	1826.0	1850.3	1881.8
37.5°	2073.3	1852.6	1455.0	1525.3	1392.0	1392.0	1627.2	1760.5	1755.7	1763.0	1806.6
40°	1993.3	1704.8	1285.2	1421.1	1328.9	1321.6	1559.3	1692.6	1675.6	1673.2	1733.9
42.5°	1908.4	1542.3	1159.1	1282.8	1256.1	1246.4	1476.8	1610.2	1578.6	1586.0	1663.5
45°	1816.3	1498.6	1062.1	1084.0	1181.0	1173.7	1387.1	1515.6	1493.8	1513.2	1593.2
47.5°	1724.2	1411.3	1030.7	899.7	1101.0	1098.5	1287.7	1423.4	1411.3	1430.8	1515.6
50°	1598.1	1314.3	1028.2	771.1	1011.2	1020.9	1168.9	1333.8	1333.8	1350.8	1440.4
52.5°	1435.6	1195.5	933.7	698.4	907.0	936.0	1064.5	1256.1	1261.0	1278.0	1358.0
55°	1287.7	1071.9	865.8	642.7	783.3	846.3	962.8	1176.1	1185.8	1202.8	1275.5
57.5°	1151.9	892.4	851.2	577.1	669.3	729.9	873.0	1098.5	1103.3	1117.9	1188.2
60°	1006.3	645.0	780.9	506.8	569.9	616.0	790.5	1006.3	1023.3	1033.0	1093.7
62.5°	841.4	468.0	708.1	458.3	521.3	531.1	722.7	919.1	940.9	948.2	984.5
65°	599.0	392.9	601.4	417.1	470.4	472.9	649.9	829.3	848.8	860.9	887.5
67.5°	405.0	320.1	458.3	378.3	431.7	434.1	579.6	725.1	751.8	761.4	778.4
70°	281.3	213.4	339.5	337.1	388.0	392.9	504.4	630.5	654.8	662.0	671.8
72.5°	206.1	172.2	281.3	303.1	341.9	346.8	426.8	523.8	548.0	555.3	560.2
75°	157.7	181.9	228.0	264.3	291.0	293.4	349.2	426.8	443.8	448.7	451.0
77.5°	126.1	169.8	167.3	213.4	237.7	232.8	274.0	329.8	344.3	344.3	344.3
80°	94.6	133.3	126.1	152.8	174.6	169.8	196.4	235.2	240.1	244.9	242.5
82.5°	70.3	84.9	84.9	97.0	116.4	111.6	131.0	152.8	152.8	152.8	157.7
85°	43.7	48.5	38.8	50.9	65.4	63.0	72.8	82.4	84.9	84.9	80.0
87.5°	26.7	21.8	12.1	19.4	29.1	29.1	34.0	36.3	34.0	34.0	34.0
90°	29.7	20.6	11.5	20.6	29.7	32.0	50.4	74.8	87.0	77.4	58.0
92.5°	201.5	123.6	45.8	123.6	201.5	221.0	310.6	430.2	490.0	429.4	308.3
95°	394.8	252.4	109.9	252.4	394.8	430.4	764.3	1209.4	1432.1	1277.9	969.6
97.5°	441.4	315.7	190.1	315.7	441.4	472.8	1029.6	1771.9	2143.0	2045.5	1850.7
100°	479.8	365.8	251.8	365.8	479.8	508.3	1126.1	1949.7	2361.6	2368.8	2383.0
102.5°	517.1	410.9	304.5	410.9	517.1	543.7	1170.3	2005.7	2423.4	2547.6	2795.8
105°	573.9	483.8	393.8	483.8	573.9	596.4	1203.1	2012.0	2416.6	2694.9	3251.5
107.5°	653.2	569.3	485.4	569.3	653.2	674.2	1209.2	1922.6	2279.2	2667.4	3443.8
110°	698.8	623.0	547.2	623.0	698.8	717.7	1200.1	1843.2	2164.8	2598.7	3466.7



TEST NUMBER: P936068

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	752.3	680.1	607.9	680.1	752.3	770.4	1200.4	1773.8	2060.5	2504.7	3393.0
115°	832.7	766.1	699.5	766.1	832.7	849.4	1211.5	1694.3	1935.8	2363.6	3219.4
117.5°	911.0	850.4	789.9	850.4	911.0	926.1	1234.0	1644.6	1849.9	2236.1	3008.4
120°	956.5	899.5	842.5	899.5	956.5	970.7	1252.4	1627.8	1815.6	2168.4	2874.1
122.5°	1009.0	951.6	894.0	951.6	1009.0	1023.4	1278.7	1619.1	1789.2	2106.9	2742.4
125°	1077.8	1025.4	973.0	1025.4	1077.8	1091.0	1314.1	1611.7	1760.6	2030.5	2570.3
127.5°	1143.0	1090.0	1037.2	1090.0	1143.0	1156.2	1349.7	1607.6	1736.6	1968.3	2431.8
130°	1185.5	1128.5	1071.5	1128.5	1185.5	1199.7	1375.6	1610.1	1727.4	1933.7	2346.4
132.5°	1221.0	1164.0	1107.0	1164.0	1221.0	1235.2	1396.6	1611.8	1719.4	1904.0	2273.4
135°	1263.5	1211.5	1159.6	1211.5	1263.5	1276.4	1419.5	1610.3	1705.6	1860.4	2169.7
137.5°	1316.2	1264.9	1213.5	1264.9	1316.2	1329.0	1453.8	1620.2	1703.4	1834.2	2095.6
140°	1352.7	1305.4	1258.1	1305.4	1352.7	1364.5	1474.8	1621.8	1695.3	1808.3	2034.3
142.5°	1379.9	1336.2	1292.4	1336.2	1379.9	1390.9	1492.4	1627.7	1695.3	1794.6	1993.0
145°	1421.4	1383.2	1345.1	1383.2	1421.4	1431.0	1515.3	1627.7	1683.9	1765.0	1927.3
147.5°	1472.1	1434.9	1397.7	1434.9	1472.1	1481.3	1548.9	1638.9	1683.9	1747.8	1875.4
150°	1499.2	1465.7	1432.1	1465.7	1499.2	1507.6	1566.3	1644.7	1683.9	1737.8	1845.7
152.5°	1518.5	1493.0	1467.6	1493.0	1518.5	1524.8	1577.9	1648.5	1683.9	1729.9	1822.0
155°	1557.9	1539.1	1520.3	1539.1	1557.9	1562.6	1603.0	1656.9	1683.9	1720.5	1793.8
157.5°	1595.8	1577.5	1559.2	1577.5	1595.8	1600.4	1628.2	1665.3	1683.9	1712.4	1769.4
160°	1614.0	1599.7	1585.5	1599.7	1614.0	1617.5	1639.6	1669.1	1683.9	1708.3	1757.2
162.5°	1633.2	1622.5	1611.8	1622.5	1633.2	1635.9	1651.9	1673.2	1683.9	1704.5	1745.7
165°	1659.7	1650.0	1640.4	1650.0	1659.7	1662.1	1669.4	1679.0	1683.9	1698.7	1728.2
167.5°	1675.9	1671.3	1666.7	1671.3	1675.9	1677.1	1683.1	1691.3	1695.3	1705.0	1724.3
170°	1693.1	1688.5	1683.9	1688.5	1693.1	1694.2	1694.6	1695.1	1695.3	1705.0	1724.3
172.5°	1695.1	1694.1	1693.1	1694.1	1695.1	1695.3	1695.3	1695.3	1695.3	1703.0	1718.2
175°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1702.2	1697.6	1695.3	1700.2	1709.8
177.5°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1703.0	1699.4	1697.6	1701.5	1709.1
180°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6



TEST NUMBER: P936068

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2473.5	2466.2	2475.9	2449.2	2475.9	2466.2	2473.5	2490.4	2475.9	2485.6	2495.3
5°	2170.3	2158.2	2119.4	2087.9	2119.4	2158.2	2170.3	2221.3	2245.5	2289.2	2347.4
7.5°	1940.0	1930.3	1920.6	1901.2	1920.6	1930.3	1940.0	1954.5	1978.8	2017.6	2061.2
10°	1889.1	1891.5	1906.1	1903.6	1906.1	1891.5	1889.1	1884.2	1877.0	1884.2	1910.9
12.5°	2020.0	2041.9	2121.9	2117.0	2121.9	2041.9	2020.0	1923.0	1857.5	1845.4	1850.3
15°	2170.3	2177.6	2194.6	2197.1	2194.6	2177.6	2170.3	2131.5	1935.1	1850.3	1823.6
17.5°	2184.9	2187.3	2199.4	2199.4	2199.4	2187.3	2184.9	2168.0	2102.4	1988.5	1838.1
20°	2172.8	2177.6	2201.9	2206.8	2201.9	2177.6	2172.8	2151.0	2114.6	2073.3	1959.4
22.5°	2168.0	2177.6	2197.1	2194.6	2197.1	2177.6	2168.0	2134.0	2102.4	2073.3	2027.3
25°	2143.6	2143.6	2146.1	2148.5	2146.1	2143.6	2143.6	2117.0	2054.0	2046.6	2020.0
27.5°	2092.8	2097.6	2112.2	2109.8	2112.2	2097.6	2092.8	2083.1	2015.2	2007.9	1988.5
30°	2046.6	2041.9	2029.7	2020.0	2029.7	2041.9	2046.6	2032.1	1964.2	1944.9	1949.6
32.5°	1969.1	1957.0	1944.9	1937.5	1944.9	1957.0	1969.1	1964.2	1913.3	1886.6	1891.5
35°	1877.0	1879.3	1877.0	1869.6	1877.0	1879.3	1877.0	1881.8	1850.3	1826.0	1823.6
37.5°	1811.4	1816.3	1813.9	1804.2	1813.9	1816.3	1811.4	1806.6	1763.0	1755.7	1760.5
40°	1743.5	1746.0	1743.5	1736.3	1743.5	1746.0	1743.5	1733.9	1673.2	1675.6	1692.6
42.5°	1678.1	1675.6	1668.4	1663.5	1668.4	1675.6	1678.1	1663.5	1586.0	1578.6	1610.2
45°	1602.9	1605.3	1590.8	1583.5	1590.8	1605.3	1602.9	1593.2	1513.2	1493.8	1515.6
47.5°	1527.8	1527.8	1515.6	1508.3	1515.6	1527.8	1527.8	1515.6	1430.8	1411.3	1423.4
50°	1447.8	1445.3	1428.3	1425.9	1428.3	1445.3	1447.8	1440.4	1350.8	1333.8	1333.8
52.5°	1355.5	1355.5	1358.0	1362.9	1358.0	1355.5	1355.5	1358.0	1278.0	1261.0	1256.1
55°	1275.5	1278.0	1295.0	1299.8	1295.0	1278.0	1275.5	1275.5	1202.8	1185.8	1176.1
57.5°	1193.1	1193.1	1205.2	1205.2	1205.2	1193.1	1193.1	1188.2	1117.9	1103.3	1098.5
60°	1098.5	1103.3	1113.1	1110.7	1113.1	1103.3	1098.5	1093.7	1033.0	1023.3	1006.3
62.5°	999.1	1004.0	1006.3	1001.5	1006.3	1004.0	999.1	984.5	948.2	940.9	919.1
65°	894.8	899.7	902.1	897.2	902.1	899.7	894.8	887.5	860.9	848.8	829.3
67.5°	788.1	785.7	783.3	793.0	783.3	785.7	788.1	778.4	761.4	751.8	725.1
70°	679.0	679.0	676.5	681.4	676.5	679.0	679.0	671.8	662.0	654.8	630.5
72.5°	562.6	560.2	569.9	562.6	569.9	560.2	562.6	560.2	555.3	548.0	523.8
75°	448.7	453.4	448.7	455.9	448.7	453.4	448.7	451.0	448.7	443.8	426.8
77.5°	341.9	346.8	341.9	341.9	341.9	346.8	341.9	344.3	344.3	344.3	329.8
80°	242.5	240.1	240.1	237.7	240.1	240.1	242.5	242.5	244.9	240.1	235.2
82.5°	155.2	152.8	152.8	157.7	152.8	152.8	155.2	157.7	152.8	152.8	152.8
85°	84.9	87.3	82.4	82.4	82.4	87.3	84.9	80.0	84.9	84.9	82.4
87.5°	31.6	29.1	29.1	29.1	29.1	29.1	31.6	34.0	34.0	34.0	36.3
90°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	58.0	77.4	87.0	74.8
92.5°	217.5	208.9	174.3	139.7	174.3	208.9	217.5	308.3	429.4	490.0	430.2
95°	738.4	712.1	607.3	502.5	607.3	712.1	738.4	969.6	1277.9	1432.1	1209.4
97.5°	1704.5	1654.7	1455.2	1255.8	1455.2	1654.7	1704.5	1850.7	2045.5	2143.0	1771.9
100°	2393.6	2334.2	2096.7	1859.1	2096.7	2334.2	2393.6	2383.0	2368.8	2361.6	1949.7
102.5°	2982.0	2931.2	2727.7	2524.2	2727.7	2931.2	2982.0	2795.8	2547.6	2423.4	2005.7
105°	3668.9	3641.6	3532.2	3422.8	3532.2	3641.6	3668.9	3251.5	2694.9	2416.6	2012.0
107.5°	4026.1	4032.7	4059.1	4085.6	4059.1	4032.7	4026.1	3443.8	2667.4	2279.2	1922.6
110°	4117.7	4146.1	4260.1	4374.1	4260.1	4146.1	4117.7	3466.7	2598.7	2164.8	1843.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4059.2	4103.0	4278.0	4453.0	4278.0	4103.0	4059.2	3393.0	2504.7	2060.5	1773.8
115°	3861.2	3921.9	4164.6	4407.2	4164.6	3921.9	3861.2	3219.4	2363.6	1935.8	1694.3
117.5°	3587.6	3654.9	3924.1	4193.2	3924.1	3654.9	3587.6	3008.4	2236.1	1849.9	1644.6
120°	3403.4	3468.7	3730.2	3991.7	3730.2	3468.7	3403.4	2874.1	2168.4	1815.6	1627.8
122.5°	3219.0	3283.5	3541.5	3799.4	3541.5	3283.5	3219.0	2742.4	2106.9	1789.2	1619.1
125°	2975.2	3034.5	3272.2	3509.8	3272.2	3034.5	2975.2	2570.3	2030.5	1760.6	1611.7
127.5°	2779.4	2829.5	3030.0	3230.5	3030.0	2829.5	2779.4	2431.8	1968.3	1736.6	1607.6
130°	2655.8	2702.2	2887.3	3072.5	2887.3	2702.2	2655.8	2346.4	1933.7	1727.4	1610.1
132.5°	2550.5	2591.9	2757.8	2923.7	2757.8	2591.9	2550.5	2273.4	1904.0	1719.4	1611.8
135°	2401.7	2437.4	2580.4	2723.4	2580.4	2437.4	2401.7	2169.7	1860.4	1705.6	1610.3
137.5°	2291.8	2321.0	2438.0	2555.0	2438.0	2321.0	2291.8	2095.6	1834.2	1703.4	1620.2
140°	2203.7	2231.0	2340.4	2449.8	2340.4	2231.0	2203.7	2034.3	1808.3	1695.3	1621.8
142.5°	2141.8	2165.3	2259.5	2353.6	2259.5	2165.3	2141.8	1993.0	1794.6	1695.3	1627.7
145°	2049.1	2066.9	2138.1	2209.4	2138.1	2066.9	2049.1	1927.3	1765.0	1683.9	1627.7
147.5°	1971.2	1986.0	2045.0	2104.0	2045.0	1986.0	1971.2	1875.4	1747.8	1683.9	1638.9
150°	1926.6	1938.5	1986.4	2034.3	1986.4	1938.5	1926.6	1845.7	1737.8	1683.9	1644.7
152.5°	1891.1	1900.1	1936.2	1972.4	1936.2	1900.1	1891.1	1822.0	1729.9	1683.9	1648.5
155°	1848.8	1854.8	1878.7	1902.6	1878.7	1854.8	1848.8	1793.8	1720.5	1683.9	1656.9
157.5°	1812.2	1816.4	1833.1	1849.9	1833.1	1816.4	1812.2	1769.4	1712.4	1683.9	1665.3
160°	1793.8	1796.2	1805.9	1815.6	1805.9	1796.2	1793.8	1757.2	1708.3	1683.9	1669.1
162.5°	1776.7	1779.0	1788.0	1797.2	1788.0	1779.0	1776.7	1745.7	1704.5	1683.9	1673.2
165°	1750.3	1752.7	1762.4	1772.1	1762.4	1752.7	1750.3	1728.2	1698.7	1683.9	1679.0
167.5°	1738.8	1739.9	1744.0	1748.0	1744.0	1739.9	1738.8	1724.3	1705.0	1695.3	1691.3
170°	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1724.3	1705.0	1695.3	1695.1
172.5°	1729.7	1728.8	1725.3	1721.7	1725.3	1728.8	1729.7	1718.2	1703.0	1695.3	1695.3
175°	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1717.1	1709.8	1700.2	1695.3	1697.6
177.5°	1714.8	1713.8	1709.7	1705.6	1709.7	1713.8	1714.8	1709.1	1701.5	1697.6	1699.4
180°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2531.6	2543.9	2551.1	2560.8	2585.1
5°	2434.6	2480.7	2495.3	2531.6	2575.3
7.5°	2221.3	2362.0	2400.7	2488.1	2556.0
10°	2015.2	2155.8	2223.7	2429.9	2531.6
12.5°	1910.9	1993.3	2039.4	2328.0	2497.7
15°	1845.4	1903.6	1937.5	2192.2	2459.0
17.5°	1794.5	1835.8	1860.0	2058.8	2405.6
20°	1763.0	1782.3	1804.2	1961.8	2345.0
22.5°	1741.1	1729.0	1746.0	1893.9	2262.5
25°	1726.6	1680.5	1699.9	1840.5	2165.5
27.5°	1738.8	1636.9	1644.1	1792.1	2063.6
30°	1741.1	1583.5	1586.0	1741.1	1949.6
32.5°	1724.2	1527.8	1530.2	1678.1	1821.2
35°	1683.0	1462.3	1459.9	1605.3	1646.5
37.5°	1627.2	1392.0	1392.0	1525.3	1455.0
40°	1559.3	1321.6	1328.9	1421.1	1285.2
42.5°	1476.8	1246.4	1256.1	1282.8	1159.1
45°	1387.1	1173.7	1181.0	1084.0	1062.1
47.5°	1287.7	1098.5	1101.0	899.7	1030.7
50°	1168.9	1020.9	1011.2	771.1	1028.2
52.5°	1064.5	936.0	907.0	698.4	933.7
55°	962.8	846.3	783.3	642.7	865.8
57.5°	873.0	729.9	669.3	577.1	851.2
60°	790.5	616.0	569.9	506.8	780.9
62.5°	722.7	531.1	521.3	458.3	708.1
65°	649.9	472.9	470.4	417.1	601.4
67.5°	579.6	434.1	431.7	378.3	458.3
70°	504.4	392.9	388.0	337.1	339.5
72.5°	426.8	346.8	341.9	303.1	281.3
75°	349.2	293.4	291.0	264.3	228.0
77.5°	274.0	232.8	237.7	213.4	167.3
80°	196.4	169.8	174.6	152.8	126.1
82.5°	131.0	111.6	116.4	97.0	84.9
85°	72.8	63.0	65.4	50.9	38.8
87.5°	34.0	29.1	29.1	19.4	12.1
90°	50.4	32.0	29.7	20.6	11.5
92.5°	310.6	221.0	201.5	123.6	45.8
95°	764.3	430.4	394.8	252.4	109.9
97.5°	1029.6	472.8	441.4	315.7	190.1
100°	1126.1	508.3	479.8	365.8	251.8
102.5°	1170.3	543.7	517.1	410.9	304.5
105°	1203.1	596.4	573.9	483.8	393.8
107.5°	1209.2	674.2	653.2	569.3	485.4
110°	1200.1	717.7	698.8	623.0	547.2



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CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1200.4	770.4	752.3	680.1	607.9
115°	1211.5	849.4	832.7	766.1	699.5
117.5°	1234.0	926.1	911.0	850.4	789.9
120°	1252.4	970.7	956.5	899.5	842.5
122.5°	1278.7	1023.4	1009.0	951.6	894.0
125°	1314.1	1091.0	1077.8	1025.4	973.0
127.5°	1349.7	1156.2	1143.0	1090.0	1037.2
130°	1375.6	1199.7	1185.5	1128.5	1071.5
132.5°	1396.6	1235.2	1221.0	1164.0	1107.0
135°	1419.5	1276.4	1263.5	1211.5	1159.6
137.5°	1453.8	1329.0	1316.2	1264.9	1213.5
140°	1474.8	1364.5	1352.7	1305.4	1258.1
142.5°	1492.4	1390.9	1379.9	1336.2	1292.4
145°	1515.3	1431.0	1421.4	1383.2	1345.1
147.5°	1548.9	1481.3	1472.1	1434.9	1397.7
150°	1566.3	1507.6	1499.2	1465.7	1432.1
152.5°	1577.9	1524.8	1518.5	1493.0	1467.6
155°	1603.0	1562.6	1557.9	1539.1	1520.3
157.5°	1628.2	1600.4	1595.8	1577.5	1559.2
160°	1639.6	1617.5	1614.0	1599.7	1585.5
162.5°	1651.9	1635.9	1633.2	1622.5	1611.8
165°	1669.4	1662.1	1659.7	1650.0	1640.4
167.5°	1683.1	1677.1	1675.9	1671.3	1666.7
170°	1694.6	1694.2	1693.1	1688.5	1683.9
172.5°	1695.3	1695.3	1695.1	1694.1	1693.1
175°	1702.2	1705.6	1705.6	1705.6	1705.6
177.5°	1703.0	1705.6	1705.6	1705.6	1705.6
180°	1705.6	1705.6	1705.6	1705.6	1705.6



TEST NUMBER: P936068  
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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	12.14	12.90	13.19	13.96	15.40	14.97	15.73	16.03	16.80	18.23
	3H	12.61	13.29	13.67	14.36	15.81	16.31	17.00	17.38	18.06	19.52
	4H	12.79	13.44	13.87	14.51	15.97	16.76	17.40	17.83	18.47	19.94
	6H	12.91	13.50	13.99	14.57	16.05	17.04	17.63	18.12	18.71	20.18
	8H	12.90	13.47	14.00	14.56	16.03	17.11	17.67	18.20	18.77	20.24
	12H	12.87	13.41	13.97	14.49	15.99	17.15	17.68	18.24	18.77	20.26
4H	2H	13.16	13.80	14.24	14.87	16.34	15.37	16.02	16.46	17.09	18.55
	3H	14.18	14.71	15.27	15.81	17.29	16.87	17.41	17.96	18.51	19.98
	4H	14.45	14.94	15.55	16.03	17.53	17.39	17.89	18.49	18.98	20.47
	6H	14.57	14.99	15.67	16.10	17.59	17.76	18.18	18.86	19.29	20.78
	8H	14.57	14.97	15.68	16.07	17.58	17.86	18.26	18.97	19.36	20.87
	12H	14.53	14.89	15.66	16.01	17.52	17.91	18.27	19.04	19.39	20.90
8H	4H	14.89	15.29	16.00	16.39	17.90	17.51	17.91	18.62	19.01	20.52
	6H	15.15	15.48	16.28	16.62	18.13	17.95	18.27	19.07	19.42	20.92
	8H	15.19	15.48	16.33	16.61	18.13	18.10	18.38	19.23	19.51	21.03
	12H	15.17	15.42	16.31	16.55	18.11	18.19	18.44	19.33	19.57	21.13
12H	4H	14.90	15.25	16.02	16.37	17.88	17.47	17.83	18.59	18.94	20.46
	6H	15.21	15.50	16.35	16.62	18.15	17.94	18.23	19.07	19.35	20.88
	8H	15.27	15.53	16.41	16.65	18.21	18.10	18.35	19.24	19.47	21.03