

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: P933854

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

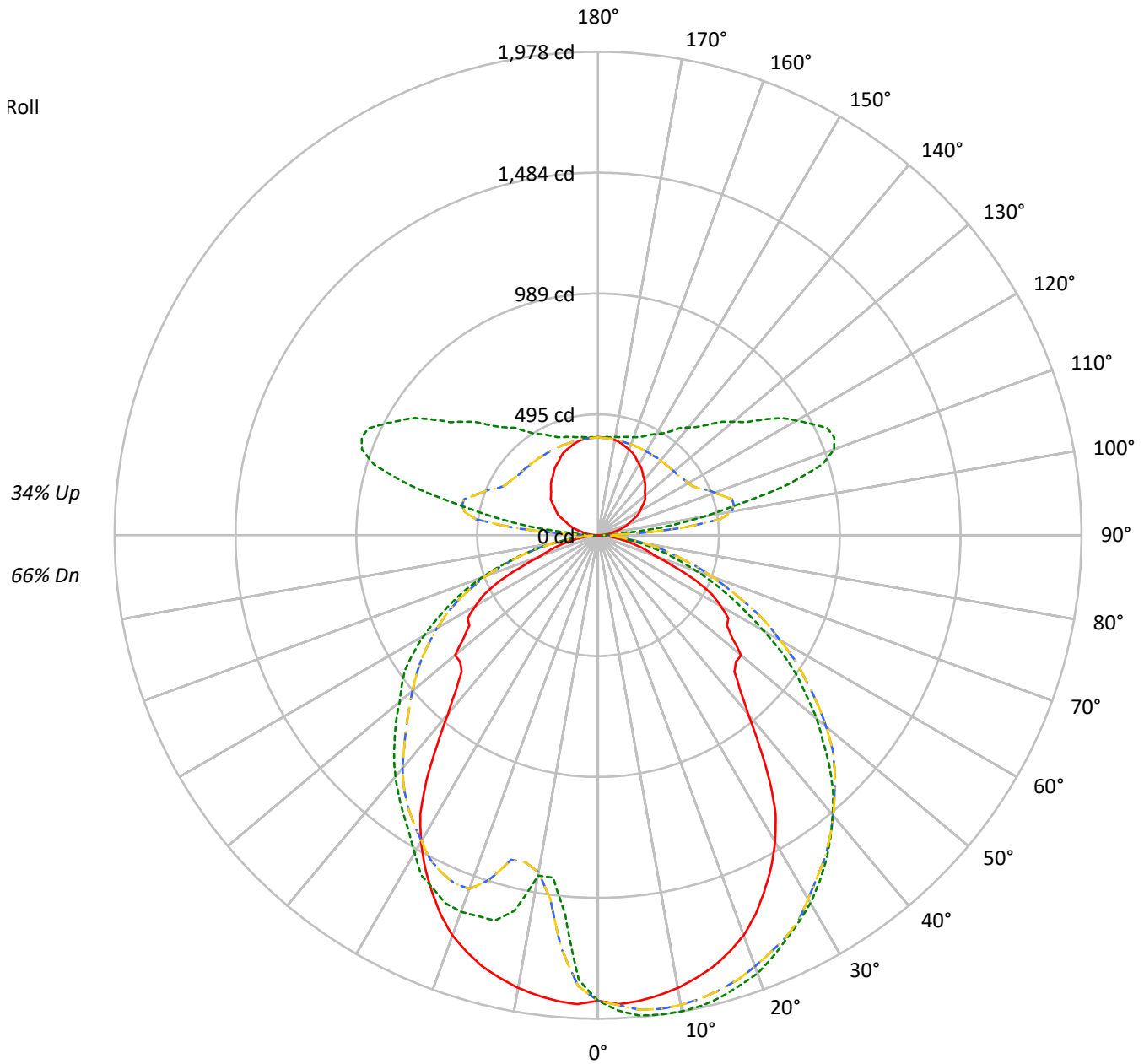
Test Method: LM-79-2019  
Report Number: P933854  
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7536.7 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 66  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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

	0°	90°	180°	270°
0°	5889	5889	5889	5889
5°	5935	5945	5935	4674
10°	5898	5856	5898	4187
15°	5836	5729	5836	4784
20°	5716	5579	5716	4794
25°	5469	5359	5469	4692
30°	5148	5177	5148	4469
35°	4592	4947	4592	4224
40°	3828	4676	3828	4039
45°	3422	4359	3422	3826
50°	3639	3981	3639	3612
55°	3427	3573	3427	3489
60°	3538	3035	3538	3195
65°	3213	2509	3213	2804
70°	2230	2000	2230	2351
75°	1962	1478	1962	1769
80°	1592	977	1592	1064
85°	933	518	933	440

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5242 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	2.3
10°-20°	488.0	6.5
20°-30°	754.3	10.0
30°-40°	900.5	11.9
40°-50°	905.8	12.0
50°-60°	788.2	10.5
60°-70°	558.8	7.4
70°-80°	295.6	3.9
80°-90°	75.1	1.0
90°-100°	195.4	2.6
100°-110°	513.7	6.8
110°-120°	532.6	7.1
120°-130°	427.2	5.7
130°-140°	335.2	4.4
140°-150°	257.3	3.4
150°-160°	185.3	2.5
160°-170°	113.4	1.5
170°-180°	38.3	0.5
0°-30°	1414.2	18.8
0°-40°	2314.7	30.7
0°-60°	4008.7	53.2
0°-90°	4938.3	65.5
90°-120°	1241.7	16.5
90°-150°	2261.5	30.0
90°-180°	2598.0	34.5
0°-180°	7536.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1904	1904	1904	1904	1904	
5°	1913	1972	1913	1551	1913	181
15°	1826	1954	1826	1632	1826	514
25°	1609	1823	1609	1596	1609	739
35°	1223	1627	1223	1389	1223	757
45°	789	1340	789	1176	789	632
55°	643	989	643	966	643	591
65°	447	596	447	666	447	427
75°	169	283	169	339	169	178
85°	29	72	29	61	29	39
90°	3	10	3	10	3	3
95°	26	118	26	118	26	29
105°	93	804	93	804	93	98
115°	164	1036	164	1036	164	162
125°	229	825	229	825	229	203
135°	272	640	272	640	272	211
145°	316	519	316	519	316	198
155°	357	447	357	447	357	164
165°	386	416	386	416	386	109
175°	401	404	401	404	401	38
180°	401	401	401	401	401	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1920.2	1920.2	1931.0	1934.6	1934.6	1929.2	1923.8	1929.2	1945.4	1950.8	1949.0
5°	1913.0	1927.4	1947.2	1950.8	1954.5	1952.7	1949.0	1952.7	1970.7	1974.3	1976.0
7.5°	1898.6	1925.6	1950.8	1956.3	1961.6	1956.3	1954.5	1958.0	1976.0	1979.6	1979.6
10°	1880.6	1918.4	1947.2	1950.8	1956.3	1950.8	1950.8	1958.0	1976.0	1979.6	1981.5
12.5°	1855.4	1907.6	1934.6	1938.3	1945.4	1943.6	1941.8	1949.0	1967.1	1970.7	1970.7
15°	1826.5	1887.8	1913.0	1916.6	1929.2	1925.6	1925.6	1932.8	1952.7	1958.0	1956.3
17.5°	1787.0	1862.6	1891.4	1896.8	1905.9	1904.0	1905.9	1913.0	1931.0	1934.6	1936.5
20°	1741.9	1828.3	1862.6	1868.0	1877.0	1877.0	1877.0	1886.0	1904.0	1911.2	1911.2
22.5°	1680.7	1792.3	1828.3	1832.0	1842.7	1842.7	1846.4	1858.9	1875.1	1877.0	1877.0
25°	1608.6	1752.7	1783.3	1794.1	1804.9	1810.3	1815.8	1822.9	1828.3	1826.5	1828.3
27.5°	1533.0	1702.3	1741.9	1749.1	1763.5	1768.9	1776.1	1777.9	1779.7	1785.1	1781.5
30°	1448.3	1632.0	1691.4	1698.7	1722.0	1725.7	1718.5	1722.0	1731.1	1734.7	1738.2
32.5°	1352.8	1527.5	1639.2	1655.4	1677.0	1666.3	1664.4	1669.8	1684.3	1684.3	1687.8
35°	1223.1	1446.5	1590.6	1605.0	1621.2	1608.6	1615.8	1617.6	1626.6	1632.0	1630.2
37.5°	1080.8	1376.2	1540.1	1550.9	1563.6	1547.4	1558.1	1563.6	1570.7	1567.2	1567.2
40°	954.7	1266.3	1480.7	1487.9	1498.7	1486.1	1496.9	1500.5	1504.1	1500.5	1498.7
42.5°	861.0	1145.6	1417.6	1426.7	1419.4	1428.5	1432.1	1439.3	1433.8	1426.7	1426.7
45°	788.9	1113.2	1349.2	1360.0	1349.2	1363.6	1369.0	1369.0	1352.8	1349.2	1347.4
47.5°	765.6	1048.4	1280.7	1280.7	1275.4	1293.4	1302.3	1289.8	1273.6	1268.1	1268.1
50°	763.8	976.3	1187.1	1179.8	1205.1	1226.7	1217.7	1205.1	1192.5	1172.7	1172.7
52.5°	693.5	888.1	1066.4	1093.4	1133.0	1145.6	1131.2	1118.6	1097.0	1088.0	1080.8
55°	643.1	796.2	956.5	1010.5	1052.0	1068.2	1041.2	1028.5	996.1	990.8	987.2
57.5°	632.3	662.9	855.6	924.1	974.5	972.8	956.5	933.1	906.1	900.7	898.9
60°	580.1	479.2	747.6	828.6	880.8	875.4	861.0	839.4	814.2	810.6	807.0
62.5°	526.0	347.6	625.0	717.0	790.7	788.9	776.4	743.9	725.9	717.0	709.7
65°	446.8	291.8	445.0	596.3	702.6	706.1	679.1	655.7	635.9	625.0	623.2
67.5°	340.5	237.8	300.8	497.2	617.9	614.3	580.1	569.2	544.0	538.6	527.8
70°	252.2	158.6	209.0	403.5	535.0	526.0	499.0	486.3	463.0	450.3	443.1
72.5°	209.0	127.9	153.1	313.4	450.3	439.5	416.1	401.7	381.9	371.1	363.9
75°	169.3	135.1	117.1	232.3	365.6	358.5	336.8	322.4	306.2	291.8	293.6
77.5°	124.3	126.1	93.6	171.1	290.0	279.2	266.6	248.6	241.4	227.0	227.0
80°	93.6	99.1	70.3	117.1	209.0	209.0	198.1	185.5	172.9	165.7	165.7
82.5°	63.0	63.0	52.2	73.9	142.3	136.9	129.7	126.1	118.9	115.3	115.3
85°	28.8	36.0	32.4	45.0	77.4	81.0	81.0	77.4	75.7	72.1	73.9
87.5°	9.0	16.2	19.8	25.2	39.7	41.5	43.2	43.2	43.2	45.0	45.0
90°	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.2	13.6	10.2	10.2
92.5°	10.7	29.0	47.4	51.9	73.0	101.1	115.1	100.9	72.4	51.1	49.1
95°	25.8	59.3	92.8	101.2	179.6	284.3	336.5	300.3	227.9	173.5	167.3
97.5°	44.7	74.2	103.8	111.1	241.9	416.4	503.6	480.7	434.9	400.6	388.8
100°	59.2	85.9	112.7	119.4	264.7	458.2	555.0	556.7	560.0	562.5	548.6
102.5°	71.5	96.5	121.5	127.8	275.0	471.4	569.5	598.7	657.0	700.8	688.8
105°	92.6	113.7	134.8	140.1	282.7	472.8	567.9	633.3	764.1	862.2	855.7
107.5°	114.1	133.8	153.5	158.5	284.2	451.8	535.6	626.8	809.3	946.2	947.7
110°	128.6	146.4	164.2	168.7	282.0	433.2	508.7	610.7	814.6	967.7	974.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	142.9	159.8	176.8	181.0	282.1	416.9	484.3	588.7	797.4	954.0	964.3
115°	164.4	180.0	195.7	199.7	284.7	398.1	454.9	555.5	756.5	907.4	921.6
117.5°	185.6	199.8	214.1	217.7	290.0	386.5	434.8	525.5	707.0	843.1	859.0
120°	198.0	211.4	224.8	228.1	294.3	382.5	426.6	509.5	675.4	799.8	815.2
122.5°	210.1	223.6	237.1	240.5	300.5	380.4	420.4	495.1	644.4	756.4	771.6
125°	228.7	241.0	253.4	256.4	308.9	378.8	413.7	477.1	604.0	699.1	713.1
127.5°	243.7	256.1	268.6	271.7	317.2	377.8	408.1	462.5	571.5	653.1	664.9
130°	251.8	265.2	278.6	281.9	323.3	378.4	405.9	454.5	551.4	624.1	635.0
132.5°	260.2	273.5	286.9	290.3	328.2	378.8	404.1	447.5	534.3	599.4	609.2
135°	272.5	284.7	296.9	299.9	333.6	378.4	400.8	437.2	509.9	564.4	572.8
137.5°	285.2	297.2	309.2	312.3	341.7	380.8	400.3	431.0	492.4	538.5	545.4
140°	295.6	306.7	317.9	320.7	346.6	381.1	398.4	424.9	478.0	517.8	524.3
142.5°	303.7	314.0	324.3	326.9	350.7	382.5	398.4	421.7	468.3	503.3	508.9
145°	316.1	325.1	334.0	336.3	356.1	382.5	395.7	414.8	452.9	481.5	485.7
147.5°	328.5	337.2	345.9	348.1	363.9	385.2	395.7	410.8	440.8	463.2	466.7
150°	336.5	344.4	352.3	354.3	368.1	386.5	395.7	408.4	433.8	452.8	455.5
152.5°	344.9	350.9	356.8	358.3	370.7	387.4	395.7	406.6	428.2	444.4	446.6
155°	357.2	361.6	366.1	367.2	376.7	389.4	395.7	404.3	421.6	434.5	435.9
157.5°	366.4	370.7	375.0	376.1	382.7	391.3	395.7	402.4	415.8	425.8	426.8
160°	372.6	375.9	379.3	380.1	385.3	392.2	395.7	401.5	412.9	421.5	422.1
162.5°	378.8	381.3	383.8	384.4	388.2	393.2	395.7	400.6	410.2	417.5	418.0
165°	385.5	387.8	390.1	390.6	392.3	394.6	395.7	399.2	406.1	411.3	411.8
167.5°	391.7	392.8	393.8	394.1	395.5	397.4	398.4	400.7	405.2	408.6	408.9
170°	395.7	396.8	397.9	398.1	398.2	398.3	398.4	400.7	405.2	408.6	408.6
172.5°	397.9	398.1	398.3	398.4	398.4	398.4	398.4	400.2	403.8	406.5	406.3
175°	400.8	400.8	400.8	400.8	400.0	399.0	398.4	399.6	401.8	403.5	403.5
177.5°	400.8	400.8	400.8	400.8	400.2	399.4	399.0	399.8	401.6	403.0	402.7
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1952.7	1947.2	1952.7	1949.0	1950.8	1945.4	1929.2	1923.8	1929.2	1934.6	1934.6
5°	1976.0	1972.5	1976.0	1976.0	1974.3	1970.7	1952.7	1949.0	1952.7	1954.5	1950.8
7.5°	1983.3	1977.8	1983.3	1979.6	1979.6	1976.0	1958.0	1954.5	1956.3	1961.6	1956.3
10°	1983.3	1977.8	1983.3	1981.5	1979.6	1976.0	1958.0	1950.8	1950.8	1956.3	1950.8
12.5°	1974.3	1970.7	1974.3	1970.7	1970.7	1967.1	1949.0	1941.8	1943.6	1945.4	1938.3
15°	1959.8	1954.5	1959.8	1956.3	1958.0	1952.7	1932.8	1925.6	1925.6	1929.2	1916.6
17.5°	1938.3	1931.0	1938.3	1936.5	1934.6	1931.0	1913.0	1905.9	1904.0	1905.9	1896.8
20°	1913.0	1907.6	1913.0	1911.2	1911.2	1904.0	1886.0	1877.0	1877.0	1877.0	1868.0
22.5°	1873.4	1868.0	1873.4	1877.0	1877.0	1875.1	1858.9	1846.4	1842.7	1842.7	1832.0
25°	1828.3	1822.9	1828.3	1828.3	1826.5	1828.3	1822.9	1815.8	1810.3	1804.9	1794.1
27.5°	1785.1	1781.5	1785.1	1781.5	1785.1	1779.7	1777.9	1776.1	1768.9	1763.5	1749.1
30°	1741.9	1738.2	1741.9	1738.2	1734.7	1731.1	1722.0	1718.5	1725.7	1722.0	1698.7
32.5°	1687.8	1684.3	1687.8	1687.8	1684.3	1684.3	1669.8	1664.4	1666.3	1677.0	1655.4
35°	1632.0	1626.6	1632.0	1630.2	1632.0	1626.6	1617.6	1615.8	1608.6	1621.2	1605.0
37.5°	1567.2	1561.8	1567.2	1567.2	1567.2	1570.7	1563.6	1558.1	1547.4	1563.6	1550.9
40°	1500.5	1493.3	1500.5	1498.7	1500.5	1504.1	1500.5	1496.9	1486.1	1498.7	1487.9
42.5°	1424.9	1423.0	1424.9	1426.7	1426.7	1433.8	1439.3	1432.1	1428.5	1419.4	1426.7
45°	1343.8	1340.2	1343.8	1347.4	1349.2	1352.8	1369.0	1369.0	1363.6	1349.2	1360.0
47.5°	1257.3	1248.3	1257.3	1268.1	1268.1	1273.6	1289.8	1302.3	1293.4	1275.4	1280.7
50°	1165.4	1167.2	1165.4	1172.7	1172.7	1192.5	1205.1	1217.7	1226.7	1205.1	1179.8
52.5°	1075.4	1073.6	1075.4	1080.8	1088.0	1097.0	1118.6	1131.2	1145.6	1133.0	1093.4
55°	985.3	989.0	985.3	987.2	990.8	996.1	1028.5	1041.2	1068.2	1052.0	1010.5
57.5°	895.2	889.9	895.2	898.9	900.7	906.1	933.1	956.5	972.8	974.5	924.1
60°	790.7	783.6	790.7	807.0	810.6	814.2	839.4	861.0	875.4	880.8	828.6
62.5°	698.9	686.3	698.9	709.7	717.0	725.9	743.9	776.4	788.9	790.7	717.0
65°	601.6	596.3	601.6	623.2	625.0	635.9	655.7	679.1	706.1	702.6	596.3
67.5°	513.4	513.4	513.4	527.8	538.6	544.0	569.2	580.1	614.3	617.9	497.2
70°	432.3	430.6	432.3	443.1	450.3	463.0	486.3	499.0	526.0	535.0	403.5
72.5°	354.9	353.0	354.9	363.9	371.1	381.9	401.7	416.1	439.5	450.3	313.4
75°	286.4	282.8	286.4	293.6	291.8	306.2	322.4	336.8	358.5	365.6	232.3
77.5°	219.8	219.8	219.8	227.0	227.0	241.4	248.6	266.6	279.2	290.0	171.1
80°	163.9	162.1	163.9	165.7	165.7	172.9	185.5	198.1	209.0	209.0	117.1
82.5°	115.3	111.6	115.3	115.3	115.3	118.9	126.1	129.7	136.9	142.3	73.9
85°	72.1	72.1	72.1	73.9	72.1	75.7	77.4	81.0	81.0	77.4	45.0
87.5°	46.8	45.0	46.8	45.0	45.0	43.2	43.2	43.2	41.5	39.7	25.2
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.4	17.5	11.8	7.5
92.5°	41.0	32.9	41.0	49.1	51.1	72.4	100.9	115.1	101.1	73.0	51.9
95°	142.7	118.1	142.7	167.3	173.5	227.9	300.3	336.5	284.3	179.6	101.2
97.5°	342.0	295.1	342.0	388.8	400.6	434.9	480.7	503.6	416.4	241.9	111.1
100°	492.8	436.9	492.8	548.6	562.5	560.0	556.7	555.0	458.2	264.7	119.4
102.5°	641.0	593.1	641.0	688.8	700.8	657.0	598.7	569.5	471.4	275.0	127.8
105°	830.0	804.3	830.0	855.7	862.2	764.1	633.3	567.9	472.8	282.7	140.1
107.5°	954.0	960.1	954.0	947.7	946.2	809.3	626.8	535.6	451.8	284.2	158.5
110°	1001.1	1027.9	1001.1	974.4	967.7	814.6	610.7	508.7	433.2	282.0	168.7





TEST NUMBER: P933854

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1005.3	1046.4	1005.3	964.3	954.0	797.4	588.7	484.3	416.9	282.1	181.0
115°	978.7	1035.7	978.7	921.6	907.4	756.5	555.5	454.9	398.1	284.7	199.7
117.5°	922.2	985.4	922.2	859.0	843.1	707.0	525.5	434.8	386.5	290.0	217.7
120°	876.6	938.0	876.6	815.2	799.8	675.4	509.5	426.6	382.5	294.3	228.1
122.5°	832.3	892.9	832.3	771.6	756.4	644.4	495.1	420.4	380.4	300.5	240.5
125°	768.9	824.8	768.9	713.1	699.1	604.0	477.1	413.7	378.8	308.9	256.4
127.5°	712.0	759.1	712.0	664.9	653.1	571.5	462.5	408.1	377.8	317.2	271.7
130°	678.6	722.1	678.6	635.0	624.1	551.4	454.5	405.9	378.4	323.3	281.9
132.5°	648.1	687.1	648.1	609.2	599.4	534.3	447.5	404.1	378.8	328.2	290.3
135°	606.4	640.0	606.4	572.8	564.4	509.9	437.2	400.8	378.4	333.6	299.9
137.5°	572.9	600.5	572.9	545.4	538.5	492.4	431.0	400.3	380.8	341.7	312.3
140°	550.0	575.7	550.0	524.3	517.8	478.0	424.9	398.4	381.1	346.6	320.7
142.5°	531.0	553.1	531.0	508.9	503.3	468.3	421.7	398.4	382.5	350.7	326.9
145°	502.4	519.2	502.4	485.7	481.5	452.9	414.8	395.7	382.5	356.1	336.3
147.5°	480.6	494.5	480.6	466.7	463.2	440.8	410.8	395.7	385.2	363.9	348.1
150°	466.8	478.0	466.8	455.5	452.8	433.8	408.4	395.7	386.5	368.1	354.3
152.5°	455.0	463.5	455.0	446.6	444.4	428.2	406.6	395.7	387.4	370.7	358.3
155°	441.5	447.1	441.5	435.9	434.5	421.6	404.3	395.7	389.4	376.7	367.2
157.5°	430.8	434.8	430.8	426.8	425.8	415.8	402.4	395.7	391.3	382.7	376.1
160°	424.4	426.6	424.4	422.1	421.5	412.9	401.5	395.7	392.2	385.3	380.1
162.5°	420.2	422.3	420.2	418.0	417.5	410.2	400.6	395.7	393.2	388.2	384.4
165°	414.2	416.4	414.2	411.8	411.3	406.1	399.2	395.7	394.6	392.3	390.6
167.5°	409.8	410.8	409.8	408.9	408.6	405.2	400.7	398.4	397.4	395.5	394.1
170°	408.6	408.6	408.6	408.6	408.6	405.2	400.7	398.4	398.3	398.2	398.1
172.5°	405.4	404.6	405.4	406.3	406.5	403.8	400.2	398.4	398.4	398.4	398.4
175°	403.5	403.5	403.5	403.5	403.5	401.8	399.6	398.4	399.0	400.0	400.8
177.5°	401.8	400.8	401.8	402.7	403.0	401.6	399.8	399.0	399.4	400.2	400.8
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



TEST NUMBER: P933854

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1931.0	1920.2	1920.2	1902.2	1895.0	1889.6	1880.6	1853.6	1846.4	1839.1	1850.0
5°	1947.2	1927.4	1913.0	1880.6	1853.6	1842.7	1808.5	1743.7	1700.5	1668.1	1650.1
7.5°	1950.8	1925.6	1898.6	1848.2	1783.3	1754.5	1650.1	1531.2	1498.7	1469.9	1451.8
10°	1947.2	1918.4	1880.6	1804.9	1651.9	1601.4	1496.9	1419.4	1399.6	1394.3	1399.6
12.5°	1934.6	1907.6	1855.4	1729.3	1515.0	1480.7	1419.4	1374.4	1370.8	1379.9	1428.5
15°	1913.0	1887.8	1826.5	1628.4	1439.3	1414.1	1370.8	1354.6	1374.4	1437.4	1583.4
17.5°	1891.4	1862.6	1787.0	1529.4	1381.6	1363.6	1332.9	1365.4	1477.1	1561.8	1610.4
20°	1862.6	1828.3	1741.9	1457.3	1340.2	1324.0	1309.6	1455.5	1540.1	1570.7	1597.8
22.5°	1828.3	1792.3	1680.7	1406.8	1296.9	1284.3	1293.4	1505.9	1540.1	1561.8	1585.1
25°	1783.3	1752.7	1608.6	1367.2	1262.7	1248.3	1282.5	1500.5	1520.3	1525.7	1572.5
27.5°	1741.9	1702.3	1533.0	1331.1	1221.3	1215.9	1291.6	1477.1	1491.5	1496.9	1547.4
30°	1691.4	1632.0	1448.3	1293.4	1178.1	1176.3	1293.4	1448.3	1444.7	1459.1	1509.5
32.5°	1639.2	1527.5	1352.8	1246.5	1136.6	1134.8	1280.7	1405.0	1401.4	1421.2	1459.1
35°	1590.6	1446.5	1223.1	1192.5	1084.4	1086.2	1250.1	1354.6	1356.4	1374.4	1397.9
37.5°	1540.1	1376.2	1080.8	1133.0	1034.0	1034.0	1208.7	1307.8	1304.2	1309.6	1342.0
40°	1480.7	1266.3	954.7	1055.6	987.2	981.7	1158.3	1257.3	1244.8	1243.0	1287.9
42.5°	1417.6	1145.6	861.0	952.9	933.1	925.8	1097.0	1196.0	1172.7	1178.1	1235.7
45°	1349.2	1113.2	788.9	805.2	877.2	871.9	1030.3	1125.9	1109.6	1124.1	1183.5
47.5°	1280.7	1048.4	765.6	668.3	817.8	816.0	956.5	1057.4	1048.4	1062.8	1125.9
50°	1187.1	976.3	763.8	572.8	751.2	758.3	868.3	990.8	990.8	1003.4	1070.0
52.5°	1066.4	888.1	693.5	518.7	673.7	695.3	790.7	933.1	936.7	949.3	1008.7
55°	956.5	796.2	643.1	477.4	581.9	628.7	715.1	873.6	880.8	893.4	947.5
57.5°	855.6	662.9	632.3	428.7	497.2	542.2	648.5	816.0	819.6	830.4	882.7
60°	747.6	479.2	580.1	376.5	423.3	457.5	587.2	747.6	760.1	767.4	812.4
62.5°	625.0	347.6	526.0	340.5	387.3	394.5	536.8	682.7	698.9	704.3	731.4
65°	445.0	291.8	446.8	309.9	349.4	351.2	482.8	616.1	630.5	639.4	659.3
67.5°	300.8	237.8	340.5	281.0	320.6	322.4	430.6	538.6	558.4	565.7	578.2
70°	209.0	158.6	252.2	250.4	288.2	291.8	374.7	468.3	486.3	491.8	499.0
72.5°	153.1	127.9	209.0	225.2	254.0	257.6	317.0	389.1	407.1	412.5	416.1
75°	117.1	135.1	169.3	196.3	216.1	217.9	259.4	317.0	329.7	333.2	335.0
77.5°	93.6	126.1	124.3	158.6	176.6	172.9	203.6	245.0	255.8	255.8	255.8
80°	70.3	99.1	93.6	113.5	129.7	126.1	145.9	174.8	178.3	181.9	180.1
82.5°	52.2	63.0	63.0	72.1	86.5	82.9	97.2	113.5	113.5	113.5	117.1
85°	32.4	36.0	28.8	37.9	48.6	46.8	54.1	61.2	63.0	63.0	59.4
87.5°	19.8	16.2	9.0	14.4	21.6	21.6	25.2	27.0	25.2	25.2	25.2
90°	7.0	4.8	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.2	13.6
92.5°	47.4	29.0	10.7	29.0	47.4	51.9	73.0	101.1	115.1	100.9	72.4
95°	92.8	59.3	25.8	59.3	92.8	101.2	179.6	284.3	336.5	300.3	227.9
97.5°	103.8	74.2	44.7	74.2	103.8	111.1	241.9	416.4	503.6	480.7	434.9
100°	112.7	85.9	59.2	85.9	112.7	119.4	264.7	458.2	555.0	556.7	560.0
102.5°	121.5	96.5	71.5	96.5	121.5	127.8	275.0	471.4	569.5	598.7	657.0
105°	134.8	113.7	92.6	113.7	134.8	140.1	282.7	472.8	567.9	633.3	764.1
107.5°	153.5	133.8	114.1	133.8	153.5	158.5	284.2	451.8	535.6	626.8	809.3
110°	164.2	146.4	128.6	146.4	164.2	168.7	282.0	433.2	508.7	610.7	814.6



TEST NUMBER: P933854

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	176.8	159.8	142.9	159.8	176.8	181.0	282.1	416.9	484.3	588.7	797.4
115°	195.7	180.0	164.4	180.0	195.7	199.7	284.7	398.1	454.9	555.5	756.5
117.5°	214.1	199.8	185.6	199.8	214.1	217.7	290.0	386.5	434.8	525.5	707.0
120°	224.8	211.4	198.0	211.4	224.8	228.1	294.3	382.5	426.6	509.5	675.4
122.5°	237.1	223.6	210.1	223.6	237.1	240.5	300.5	380.4	420.4	495.1	644.4
125°	253.4	241.0	228.7	241.0	253.4	256.4	308.9	378.8	413.7	477.1	604.0
127.5°	268.6	256.1	243.7	256.1	268.6	271.7	317.2	377.8	408.1	462.5	571.5
130°	278.6	265.2	251.8	265.2	278.6	281.9	323.3	378.4	405.9	454.5	551.4
132.5°	286.9	273.5	260.2	273.5	286.9	290.3	328.2	378.8	404.1	447.5	534.3
135°	296.9	284.7	272.5	284.7	296.9	299.9	333.6	378.4	400.8	437.2	509.9
137.5°	309.2	297.2	285.2	297.2	309.2	312.3	341.7	380.8	400.3	431.0	492.4
140°	317.9	306.7	295.6	306.7	317.9	320.7	346.6	381.1	398.4	424.9	478.0
142.5°	324.3	314.0	303.7	314.0	324.3	326.9	350.7	382.5	398.4	421.7	468.3
145°	334.0	325.1	316.1	325.1	334.0	336.3	356.1	382.5	395.7	414.8	452.9
147.5°	345.9	337.2	328.5	337.2	345.9	348.1	363.9	385.2	395.7	410.8	440.8
150°	352.3	344.4	336.5	344.4	352.3	354.3	368.1	386.5	395.7	408.4	433.8
152.5°	356.8	350.9	344.9	350.9	356.8	358.3	370.7	387.4	395.7	406.6	428.2
155°	366.1	361.6	357.2	361.6	366.1	367.2	376.7	389.4	395.7	404.3	421.6
157.5°	375.0	370.7	366.4	370.7	375.0	376.1	382.7	391.3	395.7	402.4	415.8
160°	379.3	375.9	372.6	375.9	379.3	380.1	385.3	392.2	395.7	401.5	412.9
162.5°	383.8	381.3	378.8	381.3	383.8	384.4	388.2	393.2	395.7	400.6	410.2
165°	390.1	387.8	385.5	387.8	390.1	390.6	392.3	394.6	395.7	399.2	406.1
167.5°	393.8	392.8	391.7	392.8	393.8	394.1	395.5	397.4	398.4	400.7	405.2
170°	397.9	396.8	395.7	396.8	397.9	398.1	398.2	398.3	398.4	400.7	405.2
172.5°	398.3	398.1	397.9	398.1	398.3	398.4	398.4	398.4	398.4	400.2	403.8
175°	400.8	400.8	400.8	400.8	400.8	400.8	400.0	399.0	398.4	399.6	401.8
177.5°	400.8	400.8	400.8	400.8	400.8	400.8	400.2	399.4	399.0	399.8	401.6
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



TEST NUMBER: P933854

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1837.4	1832.0	1839.1	1819.4	1839.1	1832.0	1837.4	1850.0	1839.1	1846.4	1853.6
5°	1612.2	1603.1	1574.4	1550.9	1574.4	1603.1	1612.2	1650.1	1668.1	1700.5	1743.7
7.5°	1441.1	1433.8	1426.7	1412.3	1426.7	1433.8	1441.1	1451.8	1469.9	1498.7	1531.2
10°	1403.2	1405.0	1415.8	1414.1	1415.8	1405.0	1403.2	1399.6	1394.3	1399.6	1419.4
12.5°	1500.5	1516.7	1576.2	1572.5	1576.2	1516.7	1500.5	1428.5	1379.9	1370.8	1374.4
15°	1612.2	1617.6	1630.2	1632.0	1630.2	1617.6	1612.2	1583.4	1437.4	1374.4	1354.6
17.5°	1623.0	1624.8	1633.8	1633.8	1633.8	1624.8	1623.0	1610.4	1561.8	1477.1	1365.4
20°	1614.0	1617.6	1635.6	1639.2	1635.6	1617.6	1614.0	1597.8	1570.7	1540.1	1455.5
22.5°	1610.4	1617.6	1632.0	1630.2	1632.0	1617.6	1610.4	1585.1	1561.8	1540.1	1505.9
25°	1592.4	1592.4	1594.2	1596.0	1594.2	1592.4	1592.4	1572.5	1525.7	1520.3	1500.5
27.5°	1554.5	1558.1	1568.9	1567.2	1568.9	1558.1	1554.5	1547.4	1496.9	1491.5	1477.1
30°	1520.3	1516.7	1507.7	1500.5	1507.7	1516.7	1520.3	1509.5	1459.1	1444.7	1448.3
32.5°	1462.7	1453.6	1444.7	1439.3	1444.7	1453.6	1462.7	1459.1	1421.2	1401.4	1405.0
35°	1394.3	1396.1	1394.3	1388.8	1394.3	1396.1	1394.3	1397.9	1374.4	1356.4	1354.6
37.5°	1345.6	1349.2	1347.4	1340.2	1347.4	1349.2	1345.6	1342.0	1309.6	1304.2	1307.8
40°	1295.2	1296.9	1295.2	1289.8	1295.2	1296.9	1295.2	1287.9	1243.0	1244.8	1257.3
42.5°	1246.5	1244.8	1239.3	1235.7	1239.3	1244.8	1246.5	1235.7	1178.1	1172.7	1196.0
45°	1190.7	1192.5	1181.6	1176.3	1181.6	1192.5	1190.7	1183.5	1124.1	1109.6	1125.9
47.5°	1134.8	1134.8	1125.9	1120.4	1125.9	1134.8	1134.8	1125.9	1062.8	1048.4	1057.4
50°	1075.4	1073.6	1060.9	1059.2	1060.9	1073.6	1075.4	1070.0	1003.4	990.8	990.8
52.5°	1007.0	1007.0	1008.7	1012.3	1008.7	1007.0	1007.0	1008.7	949.3	936.7	933.1
55°	947.5	949.3	961.9	965.5	961.9	949.3	947.5	947.5	893.4	880.8	873.6
57.5°	886.3	886.3	895.2	895.2	895.2	886.3	886.3	882.7	830.4	819.6	816.0
60°	816.0	819.6	826.8	825.0	826.8	819.6	816.0	812.4	767.4	760.1	747.6
62.5°	742.1	745.8	747.6	743.9	747.6	745.8	742.1	731.4	704.3	698.9	682.7
65°	664.7	668.3	670.1	666.5	670.1	668.3	664.7	659.3	639.4	630.5	616.1
67.5°	585.4	583.7	581.9	589.0	581.9	583.7	585.4	578.2	565.7	558.4	538.6
70°	504.3	504.3	502.5	506.2	502.5	504.3	504.3	499.0	491.8	486.3	468.3
72.5°	417.9	416.1	423.3	417.9	423.3	416.1	417.9	416.1	412.5	407.1	389.1
75°	333.2	336.8	333.2	338.6	333.2	336.8	333.2	335.0	333.2	329.7	317.0
77.5°	254.0	257.6	254.0	254.0	254.0	257.6	254.0	255.8	255.8	255.8	245.0
80°	180.1	178.3	178.3	176.6	178.3	178.3	180.1	180.1	181.9	178.3	174.8
82.5°	115.3	113.5	113.5	117.1	113.5	113.5	115.3	117.1	113.5	113.5	113.5
85°	63.0	64.8	61.2	61.2	61.2	64.8	63.0	59.4	63.0	63.0	61.2
87.5°	23.5	21.6	21.6	21.6	21.6	21.6	23.5	25.2	25.2	25.2	27.0
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.4	17.5
92.5°	51.1	49.1	41.0	32.9	41.0	49.1	51.1	72.4	100.9	115.1	101.1
95°	173.5	167.3	142.7	118.1	142.7	167.3	173.5	227.9	300.3	336.5	284.3
97.5°	400.6	388.8	342.0	295.1	342.0	388.8	400.6	434.9	480.7	503.6	416.4
100°	562.5	548.6	492.8	436.9	492.8	548.6	562.5	560.0	556.7	555.0	458.2
102.5°	700.8	688.8	641.0	593.1	641.0	688.8	700.8	657.0	598.7	569.5	471.4
105°	862.2	855.7	830.0	804.3	830.0	855.7	862.2	764.1	633.3	567.9	472.8
107.5°	946.2	947.7	954.0	960.1	954.0	947.7	946.2	809.3	626.8	535.6	451.8
110°	967.7	974.4	1001.1	1027.9	1001.1	974.4	967.7	814.6	610.7	508.7	433.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	954.0	964.3	1005.3	1046.4	1005.3	964.3	954.0	797.4	588.7	484.3	416.9
115°	907.4	921.6	978.7	1035.7	978.7	921.6	907.4	756.5	555.5	454.9	398.1
117.5°	843.1	859.0	922.2	985.4	922.2	859.0	843.1	707.0	525.5	434.8	386.5
120°	799.8	815.2	876.6	938.0	876.6	815.2	799.8	675.4	509.5	426.6	382.5
122.5°	756.4	771.6	832.3	892.9	832.3	771.6	756.4	644.4	495.1	420.4	380.4
125°	699.1	713.1	768.9	824.8	768.9	713.1	699.1	604.0	477.1	413.7	378.8
127.5°	653.1	664.9	712.0	759.1	712.0	664.9	653.1	571.5	462.5	408.1	377.8
130°	624.1	635.0	678.6	722.1	678.6	635.0	624.1	551.4	454.5	405.9	378.4
132.5°	599.4	609.2	648.1	687.1	648.1	609.2	599.4	534.3	447.5	404.1	378.8
135°	564.4	572.8	606.4	640.0	606.4	572.8	564.4	509.9	437.2	400.8	378.4
137.5°	538.5	545.4	572.9	600.5	572.9	545.4	538.5	492.4	431.0	400.3	380.8
140°	517.8	524.3	550.0	575.7	550.0	524.3	517.8	478.0	424.9	398.4	381.1
142.5°	503.3	508.9	531.0	553.1	531.0	508.9	503.3	468.3	421.7	398.4	382.5
145°	481.5	485.7	502.4	519.2	502.4	485.7	481.5	452.9	414.8	395.7	382.5
147.5°	463.2	466.7	480.6	494.5	480.6	466.7	463.2	440.8	410.8	395.7	385.2
150°	452.8	455.5	466.8	478.0	466.8	455.5	452.8	433.8	408.4	395.7	386.5
152.5°	444.4	446.6	455.0	463.5	455.0	446.6	444.4	428.2	406.6	395.7	387.4
155°	434.5	435.9	441.5	447.1	441.5	435.9	434.5	421.6	404.3	395.7	389.4
157.5°	425.8	426.8	430.8	434.8	430.8	426.8	425.8	415.8	402.4	395.7	391.3
160°	421.5	422.1	424.4	426.6	424.4	422.1	421.5	412.9	401.5	395.7	392.2
162.5°	417.5	418.0	420.2	422.3	420.2	418.0	417.5	410.2	400.6	395.7	393.2
165°	411.3	411.8	414.2	416.4	414.2	411.8	411.3	406.1	399.2	395.7	394.6
167.5°	408.6	408.9	409.8	410.8	409.8	408.9	408.6	405.2	400.7	398.4	397.4
170°	408.6	408.6	408.6	408.6	408.6	408.6	408.6	405.2	400.7	398.4	398.3
172.5°	406.5	406.3	405.4	404.6	405.4	406.3	406.5	403.8	400.2	398.4	398.4
175°	403.5	403.5	403.5	403.5	403.5	403.5	403.5	401.8	399.6	398.4	399.0
177.5°	403.0	402.7	401.8	400.8	401.8	402.7	403.0	401.6	399.8	399.0	399.4
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1880.6	1889.6	1895.0	1902.2	1920.2
5°	1808.5	1842.7	1853.6	1880.6	1913.0
7.5°	1650.1	1754.5	1783.3	1848.2	1898.6
10°	1496.9	1601.4	1651.9	1804.9	1880.6
12.5°	1419.4	1480.7	1515.0	1729.3	1855.4
15°	1370.8	1414.1	1439.3	1628.4	1826.5
17.5°	1332.9	1363.6	1381.6	1529.4	1787.0
20°	1309.6	1324.0	1340.2	1457.3	1741.9
22.5°	1293.4	1284.3	1296.9	1406.8	1680.7
25°	1282.5	1248.3	1262.7	1367.2	1608.6
27.5°	1291.6	1215.9	1221.3	1331.1	1533.0
30°	1293.4	1176.3	1178.1	1293.4	1448.3
32.5°	1280.7	1134.8	1136.6	1246.5	1352.8
35°	1250.1	1086.2	1084.4	1192.5	1223.1
37.5°	1208.7	1034.0	1034.0	1133.0	1080.8
40°	1158.3	981.7	987.2	1055.6	954.7
42.5°	1097.0	925.8	933.1	952.9	861.0
45°	1030.3	871.9	877.2	805.2	788.9
47.5°	956.5	816.0	817.8	668.3	765.6
50°	868.3	758.3	751.2	572.8	763.8
52.5°	790.7	695.3	673.7	518.7	693.5
55°	715.1	628.7	581.9	477.4	643.1
57.5°	648.5	542.2	497.2	428.7	632.3
60°	587.2	457.5	423.3	376.5	580.1
62.5°	536.8	394.5	387.3	340.5	526.0
65°	482.8	351.2	349.4	309.9	446.8
67.5°	430.6	322.4	320.6	281.0	340.5
70°	374.7	291.8	288.2	250.4	252.2
72.5°	317.0	257.6	254.0	225.2	209.0
75°	259.4	217.9	216.1	196.3	169.3
77.5°	203.6	172.9	176.6	158.6	124.3
80°	145.9	126.1	129.7	113.5	93.6
82.5°	97.2	82.9	86.5	72.1	63.0
85°	54.1	46.8	48.6	37.9	28.8
87.5°	25.2	21.6	21.6	14.4	9.0
90°	11.8	7.5	7.0	4.8	2.7
92.5°	73.0	51.9	47.4	29.0	10.7
95°	179.6	101.2	92.8	59.3	25.8
97.5°	241.9	111.1	103.8	74.2	44.7
100°	264.7	119.4	112.7	85.9	59.2
102.5°	275.0	127.8	121.5	96.5	71.5
105°	282.7	140.1	134.8	113.7	92.6
107.5°	284.2	158.5	153.5	133.8	114.1
110°	282.0	168.7	164.2	146.4	128.6



TEST NUMBER: P933854

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	282.1	181.0	176.8	159.8	142.9
115°	284.7	199.7	195.7	180.0	164.4
117.5°	290.0	217.7	214.1	199.8	185.6
120°	294.3	228.1	224.8	211.4	198.0
122.5°	300.5	240.5	237.1	223.6	210.1
125°	308.9	256.4	253.4	241.0	228.7
127.5°	317.2	271.7	268.6	256.1	243.7
130°	323.3	281.9	278.6	265.2	251.8
132.5°	328.2	290.3	286.9	273.5	260.2
135°	333.6	299.9	296.9	284.7	272.5
137.5°	341.7	312.3	309.2	297.2	285.2
140°	346.6	320.7	317.9	306.7	295.6
142.5°	350.7	326.9	324.3	314.0	303.7
145°	356.1	336.3	334.0	325.1	316.1
147.5°	363.9	348.1	345.9	337.2	328.5
150°	368.1	354.3	352.3	344.4	336.5
152.5°	370.7	358.3	356.8	350.9	344.9
155°	376.7	367.2	366.1	361.6	357.2
157.5°	382.7	376.1	375.0	370.7	366.4
160°	385.3	380.1	379.3	375.9	372.6
162.5°	388.2	384.4	383.8	381.3	378.8
165°	392.3	390.6	390.1	387.8	385.5
167.5°	395.5	394.1	393.8	392.8	391.7
170°	398.2	398.1	397.9	396.8	395.7
172.5°	398.4	398.4	398.3	398.1	397.9
175°	400.0	400.8	400.8	400.8	400.8
177.5°	400.2	400.8	400.8	400.8	400.8
180°	400.8	400.8	400.8	400.8	400.8



TEST NUMBER: P933854  
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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	12.29	13.31	13.11	14.15	15.18	15.15	16.17	15.96	17.00	18.03
	3H	12.78	13.70	13.61	14.54	15.60	16.51	17.43	17.33	18.27	19.33
	4H	12.98	13.85	13.82	14.70	15.77	16.97	17.83	17.81	18.68	19.75
	6H	13.11	13.91	13.96	14.76	15.85	17.26	18.06	18.12	18.92	20.00
	8H	13.11	13.87	13.98	14.75	15.83	17.35	18.11	18.21	18.98	20.07
	12H	13.09	13.81	13.96	14.68	15.79	17.39	18.12	18.26	18.99	20.10
4H	2H	13.35	14.22	14.20	15.07	16.14	15.57	16.44	16.42	17.29	18.36
	3H	14.39	15.11	15.25	16.00	17.08	17.10	17.82	17.96	18.70	19.79
	4H	14.68	15.33	15.55	16.21	17.32	17.64	18.29	18.51	19.18	20.29
	6H	14.81	15.38	15.70	16.28	17.40	18.02	18.59	18.90	19.49	20.61
	8H	14.82	15.35	15.71	16.25	17.38	18.13	18.66	19.02	19.56	20.69
	12H	14.79	15.27	15.70	16.19	17.32	18.20	18.68	19.11	19.60	20.73
8H	4H	15.15	15.67	16.03	16.57	17.70	17.78	18.30	18.66	19.20	20.33
	6H	15.41	15.85	16.33	16.79	17.92	18.22	18.66	19.14	19.60	20.73
	8H	15.46	15.85	16.38	16.78	17.93	18.38	18.77	19.31	19.70	20.85
	12H	15.45	15.79	16.38	16.72	17.91	18.49	18.83	19.42	19.76	20.96
12H	4H	15.16	15.64	16.07	16.56	17.69	17.75	18.22	18.66	19.14	20.28
	6H	15.48	15.87	16.40	16.80	17.94	18.22	18.61	19.15	19.55	20.69
	8H	15.55	15.89	16.48	16.82	18.02	18.39	18.74	19.32	19.66	20.86