

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: P935900

Luminaire Tested: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

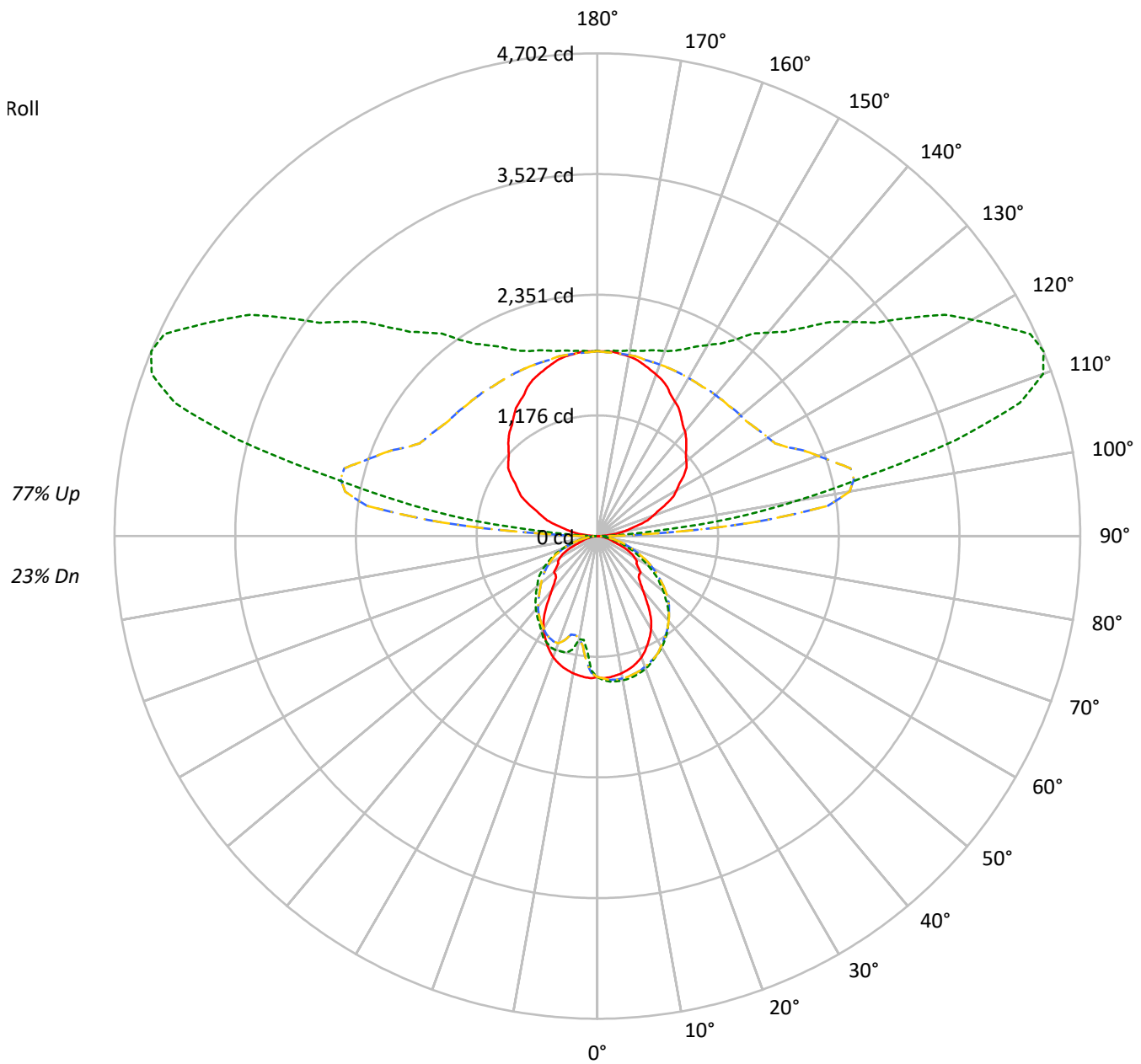
Test Method: LM-79-2019  
Report Number: P935900  
REPORT IS A COMBINATION OF REPORTS P933772 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15244.3 lumens  
Efficiency: N/A  
Efficacy: 137.1 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): 111.2  
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

TEST NUMBER: P935900  
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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				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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

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

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6422	6434	6422	5059
10°	6379	6338	6379	4531
15°	6309	6201	6309	5177
20°	6177	6038	6177	5189
25°	5907	5801	5907	5079
30°	5558	5604	5558	4837
35°	4955	5355	4955	4571
40°	4129	5061	4129	4371
45°	3689	4718	3689	4141
50°	3919	4309	3919	3910
55°	3687	3868	3687	3775
60°	3801	3285	3801	3458
65°	3446	2715	3446	3035
70°	2387	2164	2387	2544
75°	2093	1600	2093	1916
80°	1684	1058	1684	1151
85°	969	560	969	476

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5654 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	0.8
10°-20°	352.1	2.3
20°-30°	544.3	3.6
30°-40°	649.8	4.3
40°-50°	653.6	4.3
50°-60°	568.7	3.7
60°-70°	403.2	2.6
70°-80°	213.3	1.4
80°-90°	60.0	0.4
90°-100°	877.9	5.8
100°-110°	2308.1	15.1
110°-120°	2393.2	15.7
120°-130°	1919.7	12.6
130°-140°	1506.3	9.9
140°-150°	1156.1	7.6
150°-160°	832.6	5.5
160°-170°	509.4	3.3
170°-180°	172.1	1.1
0°-30°	1020.4	6.7
0°-40°	1670.1	11.0
0°-60°	2892.4	19.0
0°-90°	3568.9	23.4
90°-120°	5579.2	36.6
90°-150°	10161.3	66.7
90°-180°	11675.0	76.6
0°-180°	15244.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1374	1374	1374	1374	1374	
5°	1380	1423	1380	1119	1380	131
15°	1318	1410	1318	1178	1318	371
25°	1161	1315	1161	1152	1161	533
35°	882	1174	882	1002	882	546
45°	569	967	569	849	569	456
55°	464	714	464	697	464	426
65°	322	430	322	481	322	308
75°	122	204	122	244	122	128
85°	21	52	21	44	21	28
90°	12	46	12	46	12	11
95°	116	531	116	531	116	129
105°	416	3614	416	3614	416	441
115°	739	4654	739	4654	739	729
125°	1027	3706	1027	3706	1027	912
135°	1224	2876	1224	2876	1224	947
145°	1420	2333	1420	2333	1420	890
155°	1605	2009	1605	2009	1605	738
165°	1732	1871	1732	1871	1732	489
175°	1801	1813	1801	1813	1801	171
180°	1801	1801	1801	1801	1801	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1385.5	1385.5	1393.3	1395.9	1395.9	1392.0	1388.1	1392.0	1403.7	1407.6	1406.3
5°	1380.3	1390.7	1405.0	1407.6	1410.2	1408.9	1406.3	1408.9	1421.9	1424.5	1425.8
7.5°	1369.9	1389.4	1407.6	1411.5	1415.4	1411.5	1410.2	1412.8	1425.8	1428.4	1428.4
10°	1356.9	1384.2	1405.0	1407.6	1411.5	1407.6	1407.6	1412.8	1425.8	1428.4	1429.7
12.5°	1338.7	1376.4	1395.9	1398.5	1403.7	1402.4	1401.1	1406.3	1419.3	1421.9	1421.9
15°	1317.9	1362.1	1380.3	1382.9	1392.0	1389.4	1389.4	1394.6	1408.9	1412.8	1411.5
17.5°	1289.4	1343.9	1364.7	1368.6	1375.1	1373.8	1375.1	1380.3	1393.3	1395.9	1397.2
20°	1256.8	1319.2	1343.9	1347.8	1354.3	1354.3	1354.3	1360.8	1373.8	1379.0	1379.0
22.5°	1212.6	1293.2	1319.2	1321.8	1329.7	1329.7	1332.2	1341.3	1353.0	1354.3	1354.3
25°	1160.7	1264.6	1286.7	1294.5	1302.3	1306.2	1310.1	1315.3	1319.2	1317.9	1319.2
27.5°	1106.1	1228.2	1256.8	1262.0	1272.4	1276.4	1281.5	1282.9	1284.1	1288.0	1285.5
30°	1045.0	1177.5	1220.5	1225.7	1242.5	1245.2	1239.9	1242.5	1249.0	1251.7	1254.3
32.5°	976.1	1102.1	1182.8	1194.5	1210.1	1202.2	1201.0	1204.9	1215.2	1215.2	1217.8
35°	882.5	1043.7	1147.7	1158.1	1169.8	1160.7	1165.9	1167.2	1173.7	1177.5	1176.3
37.5°	779.9	993.0	1111.2	1119.1	1128.2	1116.5	1124.2	1128.2	1133.3	1130.7	1130.7
40°	688.9	913.7	1068.4	1073.6	1081.4	1072.3	1080.0	1082.7	1085.3	1082.7	1081.4
42.5°	621.2	826.7	1022.9	1029.4	1024.1	1030.7	1033.2	1038.5	1034.6	1029.4	1029.4
45°	569.3	803.2	973.5	981.3	973.5	983.9	987.8	987.8	976.1	973.5	972.2
47.5°	552.4	756.4	924.1	924.1	920.2	933.2	939.7	930.6	918.9	915.0	915.0
50°	551.1	704.5	856.5	851.4	869.5	885.1	878.6	869.5	860.4	846.1	846.1
52.5°	500.4	640.8	769.5	789.0	817.5	826.7	816.2	807.2	791.6	785.0	779.9
55°	464.0	574.5	690.1	729.2	759.0	770.7	751.3	742.2	718.7	714.8	712.2
57.5°	456.2	478.3	617.3	666.8	703.1	701.8	690.1	673.3	653.8	649.9	648.6
60°	418.5	345.7	539.3	597.9	635.6	631.7	621.2	605.6	587.5	584.9	582.3
62.5°	379.6	250.9	451.0	517.3	570.5	569.3	560.2	536.8	523.7	517.3	512.1
65°	322.3	210.6	321.0	430.2	506.9	509.5	490.0	473.1	458.8	451.0	449.7
67.5°	245.6	171.6	217.1	358.7	445.8	443.2	418.5	410.8	392.5	388.7	380.8
70°	182.0	114.3	150.8	291.2	386.0	379.6	360.0	351.0	334.0	324.9	319.8
72.5°	150.8	92.2	110.5	226.2	324.9	317.2	300.2	289.8	275.6	267.7	262.5
75°	122.2	97.5	84.5	167.6	263.9	258.6	243.0	232.7	220.9	210.6	211.8
77.5°	89.7	91.0	67.5	123.5	209.3	201.5	192.3	179.4	174.1	163.8	163.8
80°	67.5	71.5	50.7	84.5	150.8	150.8	142.9	133.9	124.8	119.6	119.6
82.5°	45.4	45.4	37.7	53.3	102.7	98.7	93.6	91.0	85.8	83.1	83.1
85°	20.8	26.0	23.4	32.5	55.9	58.5	58.5	55.9	54.6	52.0	53.3
87.5°	6.5	11.7	14.3	18.2	28.6	29.9	31.2	31.2	31.2	32.5	32.5
90°	12.1	21.8	31.4	33.8	53.2	79.0	91.9	81.7	61.2	45.9	45.9
92.5°	48.4	130.5	212.8	233.3	328.0	454.3	517.3	453.4	325.6	229.7	220.5
95°	116.1	266.5	416.9	454.5	807.0	1277.0	1512.1	1349.3	1023.8	779.7	751.9
97.5°	200.7	333.3	466.1	499.2	1087.1	1870.9	2262.8	2159.9	1954.2	1799.8	1747.2
100°	265.9	386.2	506.6	536.7	1189.1	2058.7	2493.6	2501.2	2516.2	2527.4	2464.7
102.5°	321.5	433.8	546.0	574.1	1235.8	2117.8	2558.9	2690.0	2952.2	3148.8	3095.1
105°	415.8	510.9	606.0	629.8	1270.4	2124.5	2551.7	2845.6	3433.3	3874.1	3845.2
107.5°	512.5	601.2	689.7	711.9	1276.9	2030.1	2406.6	2816.5	3636.4	4251.2	4258.2
110°	577.8	657.9	737.9	757.9	1267.2	1946.2	2285.8	2744.0	3660.5	4347.9	4377.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	641.9	718.1	794.4	813.5	1267.5	1873.0	2175.7	2644.7	3582.7	4286.2	4332.4
115°	738.6	808.9	879.3	896.9	1279.3	1789.1	2044.0	2495.8	3399.3	4077.1	4141.1
117.5°	834.0	898.0	961.9	977.9	1303.0	1736.5	1953.3	2361.1	3176.6	3788.2	3859.2
120°	889.6	949.8	1010.0	1025.0	1322.4	1718.8	1917.1	2289.7	3034.8	3593.6	3662.6
122.5°	944.0	1004.8	1065.4	1080.6	1350.2	1709.6	1889.3	2224.7	2895.8	3399.0	3467.1
125°	1027.4	1082.8	1138.1	1151.9	1387.6	1701.9	1859.0	2144.0	2714.0	3141.5	3204.2
127.5°	1095.2	1151.0	1206.9	1220.8	1425.1	1697.5	1833.6	2078.3	2567.8	2934.8	2987.7
130°	1131.4	1191.6	1251.8	1266.8	1452.5	1700.1	1823.9	2041.8	2477.5	2804.3	2853.2
132.5°	1168.9	1229.1	1289.3	1304.3	1474.7	1702.0	1815.5	2010.5	2400.5	2693.0	2736.8
135°	1224.4	1279.3	1334.1	1347.8	1498.8	1700.3	1801.0	1964.4	2291.0	2536.0	2573.7
137.5°	1281.3	1335.6	1389.7	1403.3	1535.1	1710.8	1798.7	1936.7	2212.8	2419.9	2450.8
140°	1328.4	1378.4	1428.3	1440.8	1557.3	1712.5	1790.1	1909.4	2148.0	2326.9	2355.7
142.5°	1364.6	1410.9	1457.1	1468.6	1575.8	1718.7	1790.1	1894.9	2104.4	2261.5	2286.4
145°	1420.3	1460.6	1500.9	1511.0	1600.0	1718.7	1778.0	1863.7	2035.1	2163.7	2182.5
147.5°	1475.9	1515.1	1554.4	1564.2	1635.5	1730.5	1778.0	1845.5	1980.2	2081.4	2097.0
150°	1512.1	1547.6	1583.1	1591.9	1653.9	1736.6	1778.0	1835.0	1948.9	2034.3	2046.9
152.5°	1549.6	1576.5	1603.4	1610.1	1666.1	1740.7	1778.0	1826.7	1923.9	1996.8	2006.3
155°	1605.2	1625.1	1645.0	1649.9	1692.6	1749.5	1778.0	1816.7	1894.1	1952.1	1958.4
157.5°	1646.3	1665.7	1685.0	1689.8	1719.2	1758.4	1778.0	1808.2	1868.3	1913.5	1917.9
160°	1674.1	1689.2	1704.2	1708.0	1731.3	1762.4	1778.0	1803.8	1855.4	1894.1	1896.6
162.5°	1702.0	1713.2	1724.5	1727.3	1744.2	1766.8	1778.0	1799.8	1843.3	1876.0	1878.4
165°	1732.1	1742.3	1752.5	1755.1	1762.7	1772.9	1778.0	1793.6	1824.8	1848.2	1850.7
167.5°	1759.9	1764.7	1769.6	1770.8	1777.2	1785.9	1790.1	1800.3	1820.8	1836.1	1837.1
170°	1778.0	1782.9	1787.7	1789.0	1789.4	1789.8	1790.1	1800.3	1820.8	1836.1	1836.1
172.5°	1787.7	1788.8	1789.8	1790.1	1790.1	1790.1	1790.1	1798.2	1814.3	1826.4	1825.4
175°	1801.0	1801.0	1801.0	1801.0	1797.4	1792.6	1790.1	1795.3	1805.4	1813.1	1813.1
177.5°	1801.0	1801.0	1801.0	1801.0	1798.2	1794.4	1792.6	1796.6	1804.7	1810.7	1809.6
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1408.9	1405.0	1408.9	1406.3	1407.6	1403.7	1392.0	1388.1	1392.0	1395.9	1395.9
5°	1425.8	1423.2	1425.8	1425.8	1424.5	1421.9	1408.9	1406.3	1408.9	1410.2	1407.6
7.5°	1431.0	1427.1	1431.0	1428.4	1428.4	1425.8	1412.8	1410.2	1411.5	1415.4	1411.5
10°	1431.0	1427.1	1431.0	1429.7	1428.4	1425.8	1412.8	1407.6	1407.6	1411.5	1407.6
12.5°	1424.5	1421.9	1424.5	1421.9	1421.9	1419.3	1406.3	1401.1	1402.4	1403.7	1398.5
15°	1414.1	1410.2	1414.1	1411.5	1412.8	1408.9	1394.6	1389.4	1389.4	1392.0	1382.9
17.5°	1398.5	1393.3	1398.5	1397.2	1395.9	1393.3	1380.3	1375.1	1373.8	1375.1	1368.6
20°	1380.3	1376.4	1380.3	1379.0	1379.0	1373.8	1360.8	1354.3	1354.3	1354.3	1347.8
22.5°	1351.8	1347.8	1351.8	1354.3	1354.3	1353.0	1341.3	1332.2	1329.7	1329.7	1321.8
25°	1319.2	1315.3	1319.2	1319.2	1317.9	1319.2	1315.3	1310.1	1306.2	1302.3	1294.5
27.5°	1288.0	1285.5	1288.0	1285.5	1288.0	1284.1	1282.9	1281.5	1276.4	1272.4	1262.0
30°	1256.8	1254.3	1256.8	1254.3	1251.7	1249.0	1242.5	1239.9	1245.2	1242.5	1225.7
32.5°	1217.8	1215.2	1217.8	1217.8	1215.2	1215.2	1204.9	1201.0	1202.2	1210.1	1194.5
35°	1177.5	1173.7	1177.5	1176.3	1177.5	1173.7	1167.2	1165.9	1160.7	1169.8	1158.1
37.5°	1130.7	1126.9	1130.7	1130.7	1130.7	1133.3	1128.2	1124.2	1116.5	1128.2	1119.1
40°	1082.7	1077.4	1082.7	1081.4	1082.7	1085.3	1082.7	1080.0	1072.3	1081.4	1073.6
42.5°	1028.1	1026.8	1028.1	1029.4	1029.4	1034.6	1038.5	1033.2	1030.7	1024.1	1029.4
45°	969.6	967.0	969.6	972.2	973.5	976.1	987.8	987.8	983.9	973.5	981.3
47.5°	907.2	900.7	907.2	915.0	915.0	918.9	930.6	939.7	933.2	920.2	924.1
50°	840.9	842.3	840.9	846.1	846.1	860.4	869.5	878.6	885.1	869.5	851.4
52.5°	776.0	774.6	776.0	779.9	785.0	791.6	807.2	816.2	826.7	817.5	789.0
55°	711.0	713.6	711.0	712.2	714.8	718.7	742.2	751.3	770.7	759.0	729.2
57.5°	645.9	642.1	645.9	648.6	649.9	653.8	673.3	690.1	701.8	703.1	666.8
60°	570.5	565.4	570.5	582.3	584.9	587.5	605.6	621.2	631.7	635.6	597.9
62.5°	504.3	495.2	504.3	512.1	517.3	523.7	536.8	560.2	569.3	570.5	517.3
65°	434.1	430.2	434.1	449.7	451.0	458.8	473.1	490.0	509.5	506.9	430.2
67.5°	370.4	370.4	370.4	380.8	388.7	392.5	410.8	418.5	443.2	445.8	358.7
70°	311.9	310.7	311.9	319.8	324.9	334.0	351.0	360.0	379.6	386.0	291.2
72.5°	256.0	254.8	256.0	262.5	267.7	275.6	289.8	300.2	317.2	324.9	226.2
75°	206.7	204.1	206.7	211.8	210.6	220.9	232.7	243.0	258.6	263.9	167.6
77.5°	158.5	158.5	158.5	163.8	163.8	174.1	179.4	192.3	201.5	209.3	123.5
80°	118.3	117.0	118.3	119.6	119.6	124.8	133.9	142.9	150.8	150.8	84.5
82.5°	83.1	80.6	83.1	83.1	83.1	85.8	91.0	93.6	98.7	102.7	53.3
85°	52.0	52.0	52.0	53.3	52.0	54.6	55.9	58.5	58.5	55.9	32.5
87.5°	33.8	32.5	33.8	32.5	32.5	31.2	31.2	31.2	29.9	28.6	18.2
90°	45.9	45.9	45.9	45.9	45.9	61.2	81.7	91.9	79.0	53.2	33.8
92.5°	184.0	147.5	184.0	220.5	229.7	325.6	453.4	517.3	454.3	328.0	233.3
95°	641.3	530.6	641.3	751.9	779.7	1023.8	1349.3	1512.1	1277.0	807.0	454.5
97.5°	1536.5	1326.0	1536.5	1747.2	1799.8	1954.2	2159.9	2262.8	1870.9	1087.1	499.2
100°	2213.9	1963.0	2213.9	2464.7	2527.4	2516.2	2501.2	2493.6	2058.7	1189.1	536.7
102.5°	2880.2	2665.3	2880.2	3095.1	3148.8	2952.2	2690.0	2558.9	2117.8	1235.8	574.1
105°	3729.7	3614.2	3729.7	3845.2	3874.1	3433.3	2845.6	2551.7	2124.5	1270.4	629.8
107.5°	4286.1	4314.0	4286.1	4258.2	4251.2	3636.4	2816.5	2406.6	2030.1	1276.9	711.9
110°	4498.3	4618.6	4498.3	4377.9	4347.9	3660.5	2744.0	2285.8	1946.2	1267.2	757.9





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4517.2	4702.0	4517.2	4332.4	4286.2	3582.7	2644.7	2175.7	1873.0	1267.5	813.5
115°	4397.4	4653.6	4397.4	4141.1	4077.1	3399.3	2495.8	2044.0	1789.1	1279.3	896.9
117.5°	4143.4	4427.7	4143.4	3859.2	3788.2	3176.6	2361.1	1953.3	1736.5	1303.0	977.9
120°	3938.8	4214.9	3938.8	3662.6	3593.6	3034.8	2289.7	1917.1	1718.8	1322.4	1025.0
122.5°	3739.5	4011.9	3739.5	3467.1	3399.0	2895.8	2224.7	1889.3	1709.6	1350.2	1080.6
125°	3455.2	3706.0	3455.2	3204.2	3141.5	2714.0	2144.0	1859.0	1701.9	1387.6	1151.9
127.5°	3199.4	3411.1	3199.4	2987.7	2934.8	2567.8	2078.3	1833.6	1697.5	1425.1	1220.8
130°	3048.8	3244.3	3048.8	2853.2	2804.3	2477.5	2041.8	1823.9	1700.1	1452.5	1266.8
132.5°	2911.9	3087.1	2911.9	2736.8	2693.0	2400.5	2010.5	1815.5	1702.0	1474.7	1304.3
135°	2724.6	2875.6	2724.6	2573.7	2536.0	2291.0	1964.4	1801.0	1700.3	1498.8	1347.8
137.5°	2574.3	2697.9	2574.3	2450.8	2419.9	2212.8	1936.7	1798.7	1710.8	1535.1	1403.3
140°	2471.2	2586.7	2471.2	2355.7	2326.9	2148.0	1909.4	1790.1	1712.5	1557.3	1440.8
142.5°	2385.8	2485.2	2385.8	2286.4	2261.5	2104.4	1894.9	1790.1	1718.7	1575.8	1468.6
145°	2257.7	2332.9	2257.7	2182.5	2163.7	2035.1	1863.7	1778.0	1718.7	1600.0	1511.0
147.5°	2159.3	2221.6	2159.3	2097.0	2081.4	1980.2	1845.5	1778.0	1730.5	1635.5	1564.2
150°	2097.5	2148.0	2097.5	2046.9	2034.3	1948.9	1835.0	1778.0	1736.6	1653.9	1591.9
152.5°	2044.5	2082.7	2044.5	2006.3	1996.8	1923.9	1826.7	1778.0	1740.7	1666.1	1610.1
155°	1983.7	2008.9	1983.7	1958.4	1952.1	1894.1	1816.7	1778.0	1749.5	1692.6	1649.9
157.5°	1935.6	1953.3	1935.6	1917.9	1913.5	1868.3	1808.2	1778.0	1758.4	1719.2	1689.8
160°	1906.9	1917.1	1906.9	1896.6	1894.1	1855.4	1803.8	1778.0	1762.4	1731.3	1708.0
162.5°	1888.0	1897.7	1888.0	1878.4	1876.0	1843.3	1799.8	1778.0	1766.8	1744.2	1727.3
165°	1861.0	1871.1	1861.0	1850.7	1848.2	1824.8	1793.6	1778.0	1772.9	1762.7	1755.1
167.5°	1841.5	1845.8	1841.5	1837.1	1836.1	1820.8	1800.3	1790.1	1785.9	1777.2	1770.8
170°	1836.1	1836.1	1836.1	1836.1	1836.1	1820.8	1800.3	1790.1	1789.8	1789.4	1789.0
172.5°	1821.7	1817.9	1821.7	1825.4	1826.4	1814.3	1798.2	1790.1	1790.1	1790.1	1790.1
175°	1813.1	1813.1	1813.1	1813.1	1813.1	1805.4	1795.3	1790.1	1792.6	1797.4	1801.0
177.5°	1805.2	1801.0	1805.2	1809.6	1810.7	1804.7	1796.6	1792.6	1794.4	1798.2	1801.0
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1393.3	1385.5	1385.5	1372.5	1367.4	1363.4	1356.9	1337.4	1332.2	1327.0	1334.8
5°	1405.0	1390.7	1380.3	1356.9	1337.4	1329.7	1305.0	1258.1	1226.9	1203.5	1190.5
7.5°	1407.6	1389.4	1369.9	1333.5	1286.7	1265.9	1190.5	1104.8	1081.4	1060.6	1047.6
10°	1405.0	1384.2	1356.9	1302.3	1191.9	1155.4	1080.0	1024.1	1009.9	1006.0	1009.9
12.5°	1395.9	1376.4	1338.7	1247.8	1093.0	1068.4	1024.1	991.7	989.1	995.6	1030.7
15°	1380.3	1362.1	1317.9	1174.9	1038.5	1020.3	989.1	977.4	991.7	1037.2	1142.5
17.5°	1364.7	1343.9	1289.4	1103.5	996.9	983.9	961.8	985.2	1065.8	1126.9	1161.9
20°	1343.9	1319.2	1256.8	1051.5	967.0	955.3	944.9	1050.2	1111.2	1133.3	1152.8
22.5°	1319.2	1293.2	1212.6	1015.1	935.8	926.8	933.2	1086.5	1111.2	1126.9	1143.7
25°	1286.7	1264.6	1160.7	986.5	911.2	900.7	925.4	1082.7	1097.0	1100.9	1134.7
27.5°	1256.8	1228.2	1106.1	960.5	881.2	877.3	931.9	1065.8	1076.2	1080.0	1116.5
30°	1220.5	1177.5	1045.0	933.2	850.0	848.7	933.2	1045.0	1042.4	1052.8	1089.2
32.5°	1182.8	1102.1	976.1	899.4	820.2	818.8	924.1	1013.8	1011.2	1025.5	1052.8
35°	1147.7	1043.7	882.5	860.4	782.5	783.7	902.0	977.4	978.7	991.7	1008.6
37.5°	1111.2	993.0	779.9	817.5	746.0	746.0	872.1	943.6	941.0	944.9	968.3
40°	1068.4	913.7	688.9	761.6	712.2	708.3	835.8	907.2	898.1	896.8	929.3
42.5°	1022.9	826.7	621.2	687.6	673.3	668.0	791.6	863.0	846.1	850.0	891.6
45°	973.5	803.2	569.3	581.0	633.0	629.1	743.4	812.3	800.6	811.1	853.9
47.5°	924.1	756.4	552.4	482.2	590.1	588.8	690.1	762.9	756.4	766.9	812.3
50°	856.5	704.5	551.1	413.3	542.0	547.2	626.5	714.8	714.8	723.9	772.0
52.5°	769.5	640.8	500.4	374.3	486.1	501.7	570.5	673.3	675.9	685.0	727.8
55°	690.1	574.5	464.0	344.4	419.8	453.6	516.0	630.3	635.6	644.7	683.6
57.5°	617.3	478.3	456.2	309.3	358.7	391.2	467.9	588.8	591.4	599.1	636.8
60°	539.3	345.7	418.5	271.6	305.4	330.1	423.7	539.3	548.5	553.7	586.1
62.5°	451.0	250.9	379.6	245.6	279.5	284.6	387.3	492.6	504.3	508.2	527.7
65°	321.0	210.6	322.3	223.5	252.1	253.5	348.4	444.5	454.9	461.4	475.7
67.5°	217.1	171.6	245.6	202.7	231.4	232.7	310.7	388.7	402.9	408.1	417.3
70°	150.8	114.3	182.0	180.6	207.9	210.6	270.4	337.9	351.0	354.8	360.0
72.5°	110.5	92.2	150.8	162.5	183.2	185.9	228.8	280.7	293.7	297.7	300.2
75°	84.5	97.5	122.2	141.7	156.0	157.3	187.1	228.8	237.9	240.4	241.8
77.5°	67.5	91.0	89.7	114.3	127.3	124.8	146.9	176.7	184.6	184.6	184.6
80°	50.7	71.5	67.5	81.9	93.6	91.0	105.2	126.1	128.7	131.3	129.9
82.5°	37.7	45.4	45.4	52.0	62.4	59.8	70.2	81.9	81.9	81.9	84.5
85°	23.4	26.0	20.8	27.3	35.1	33.8	39.0	44.2	45.4	45.4	42.9
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.5	18.2	18.2	18.2
90°	31.4	21.8	12.1	21.8	31.4	33.8	53.2	79.0	91.9	81.7	61.2
92.5°	212.8	130.5	48.4	130.5	212.8	233.3	328.0	454.3	517.3	453.4	325.6
95°	416.9	266.5	116.1	266.5	416.9	454.5	807.0	1277.0	1512.1	1349.3	1023.8
97.5°	466.1	333.3	200.7	333.3	466.1	499.2	1087.1	1870.9	2262.8	2159.9	1954.2
100°	506.6	386.2	265.9	386.2	506.6	536.7	1189.1	2058.7	2493.6	2501.2	2516.2
102.5°	546.0	433.8	321.5	433.8	546.0	574.1	1235.8	2117.8	2558.9	2690.0	2952.2
105°	606.0	510.9	415.8	510.9	606.0	629.8	1270.4	2124.5	2551.7	2845.6	3433.3
107.5°	689.7	601.2	512.5	601.2	689.7	711.9	1276.9	2030.1	2406.6	2816.5	3636.4
110°	737.9	657.9	577.8	657.9	737.9	757.9	1267.2	1946.2	2285.8	2744.0	3660.5



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CATALOG NUMBER: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	794.4	718.1	641.9	718.1	794.4	813.5	1267.5	1873.0	2175.7	2644.7	3582.7
115°	879.3	808.9	738.6	808.9	879.3	896.9	1279.3	1789.1	2044.0	2495.8	3399.3
117.5°	961.9	898.0	834.0	898.0	961.9	977.9	1303.0	1736.5	1953.3	2361.1	3176.6
120°	1010.0	949.8	889.6	949.8	1010.0	1025.0	1322.4	1718.8	1917.1	2289.7	3034.8
122.5°	1065.4	1004.8	944.0	1004.8	1065.4	1080.6	1350.2	1709.6	1889.3	2224.7	2895.8
125°	1138.1	1082.8	1027.4	1082.8	1138.1	1151.9	1387.6	1701.9	1859.0	2144.0	2714.0
127.5°	1206.9	1151.0	1095.2	1151.0	1206.9	1220.8	1425.1	1697.5	1833.6	2078.3	2567.8
130°	1251.8	1191.6	1131.4	1191.6	1251.8	1266.8	1452.5	1700.1	1823.9	2041.8	2477.5
132.5°	1289.3	1229.1	1168.9	1229.1	1289.3	1304.3	1474.7	1702.0	1815.5	2010.5	2400.5
135°	1334.1	1279.3	1224.4	1279.3	1334.1	1347.8	1498.8	1700.3	1801.0	1964.4	2291.0
137.5°	1389.7	1335.6	1281.3	1335.6	1389.7	1403.3	1535.1	1710.8	1798.7	1936.7	2212.8
140°	1428.3	1378.4	1328.4	1378.4	1428.3	1440.8	1557.3	1712.5	1790.1	1909.4	2148.0
142.5°	1457.1	1410.9	1364.6	1410.9	1457.1	1468.6	1575.8	1718.7	1790.1	1894.9	2104.4
145°	1500.9	1460.6	1420.3	1460.6	1500.9	1511.0	1600.0	1718.7	1778.0	1863.7	2035.1
147.5°	1554.4	1515.1	1475.9	1515.1	1554.4	1564.2	1635.5	1730.5	1778.0	1845.5	1980.2
150°	1583.1	1547.6	1512.1	1547.6	1583.1	1591.9	1653.9	1736.6	1778.0	1835.0	1948.9
152.5°	1603.4	1576.5	1549.6	1576.5	1603.4	1610.1	1666.1	1740.7	1778.0	1826.7	1923.9
155°	1645.0	1625.1	1605.2	1625.1	1645.0	1649.9	1692.6	1749.5	1778.0	1816.7	1894.1
157.5°	1685.0	1665.7	1646.3	1665.7	1685.0	1689.8	1719.2	1758.4	1778.0	1808.2	1868.3
160°	1704.2	1689.2	1674.1	1689.2	1704.2	1708.0	1731.3	1762.4	1778.0	1803.8	1855.4
162.5°	1724.5	1713.2	1702.0	1713.2	1724.5	1727.3	1744.2	1766.8	1778.0	1799.8	1843.3
165°	1752.5	1742.3	1732.1	1742.3	1752.5	1755.1	1762.7	1772.9	1778.0	1793.6	1824.8
167.5°	1769.6	1764.7	1759.9	1764.7	1769.6	1770.8	1777.2	1785.9	1790.1	1800.3	1820.8
170°	1787.7	1782.9	1778.0	1782.9	1787.7	1789.0	1789.4	1789.8	1790.1	1800.3	1820.8
172.5°	1789.8	1788.8	1787.7	1788.8	1789.8	1790.1	1790.1	1790.1	1790.1	1798.2	1814.3
175°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1797.4	1792.6	1790.1	1795.3	1805.4
177.5°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1798.2	1794.4	1792.6	1796.6	1804.7
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1325.7	1321.8	1327.0	1312.7	1327.0	1321.8	1325.7	1334.8	1327.0	1332.2	1337.4
5°	1163.3	1156.8	1136.0	1119.1	1136.0	1156.8	1163.3	1190.5	1203.5	1226.9	1258.1
7.5°	1039.7	1034.6	1029.4	1019.0	1029.4	1034.6	1039.7	1047.6	1060.6	1081.4	1104.8
10°	1012.5	1013.8	1021.6	1020.3	1021.6	1013.8	1012.5	1009.9	1006.0	1009.9	1024.1
12.5°	1082.7	1094.4	1137.2	1134.7	1137.2	1094.4	1082.7	1030.7	995.6	989.1	991.7
15°	1163.3	1167.2	1176.3	1177.5	1176.3	1167.2	1163.3	1142.5	1037.2	991.7	977.4
17.5°	1171.0	1172.4	1178.9	1178.9	1178.9	1172.4	1171.0	1161.9	1126.9	1065.8	985.2
20°	1164.5	1167.2	1180.1	1182.8	1180.1	1167.2	1164.5	1152.8	1133.3	1111.2	1050.2
22.5°	1161.9	1167.2	1177.5	1176.3	1177.5	1167.2	1161.9	1143.7	1126.9	1111.2	1086.5
25°	1148.9	1148.9	1150.3	1151.6	1150.3	1148.9	1148.9	1134.7	1100.9	1097.0	1082.7
27.5°	1121.6	1124.2	1132.1	1130.7	1132.1	1124.2	1121.6	1116.5	1080.0	1076.2	1065.8
30°	1097.0	1094.4	1087.9	1082.7	1087.9	1094.4	1097.0	1089.2	1052.8	1042.4	1045.0
32.5°	1055.3	1048.8	1042.4	1038.5	1042.4	1048.8	1055.3	1052.8	1025.5	1011.2	1013.8
35°	1006.0	1007.3	1006.0	1002.0	1006.0	1007.3	1006.0	1008.6	991.7	978.7	977.4
37.5°	970.9	973.5	972.2	967.0	972.2	973.5	970.9	968.3	944.9	941.0	943.6
40°	934.5	935.8	934.5	930.6	934.5	935.8	934.5	929.3	896.8	898.1	907.2
42.5°	899.4	898.1	894.2	891.6	894.2	898.1	899.4	891.6	850.0	846.1	863.0
45°	859.1	860.4	852.6	848.7	852.6	860.4	859.1	853.9	811.1	800.6	812.3
47.5°	818.8	818.8	812.3	808.4	812.3	818.8	818.8	812.3	766.9	756.4	762.9
50°	776.0	774.6	765.5	764.3	765.5	774.6	776.0	772.0	723.9	714.8	714.8
52.5°	726.6	726.6	727.8	730.4	727.8	726.6	726.6	727.8	685.0	675.9	673.3
55°	683.6	685.0	694.1	696.6	694.1	685.0	683.6	683.6	644.7	635.6	630.3
57.5°	639.4	639.4	645.9	645.9	645.9	639.4	639.4	636.8	599.1	591.4	588.8
60°	588.8	591.4	596.6	595.3	596.6	591.4	588.8	586.1	553.7	548.5	539.3
62.5°	535.5	538.1	539.3	536.8	539.3	538.1	535.5	527.7	508.2	504.3	492.6
65°	479.6	482.2	483.5	480.9	483.5	482.2	479.6	475.7	461.4	454.9	444.5
67.5°	422.4	421.1	419.8	425.0	419.8	421.1	422.4	417.3	408.1	402.9	388.7
70°	364.0	364.0	362.6	365.2	362.6	364.0	364.0	360.0	354.8	351.0	337.9
72.5°	301.6	300.2	305.4	301.6	305.4	300.2	301.6	300.2	297.7	293.7	280.7
75°	240.4	243.0	240.4	244.4	240.4	243.0	240.4	241.8	240.4	237.9	228.8
77.5°	183.2	185.9	183.2	183.2	183.2	185.9	183.2	184.6	184.6	184.6	176.7
80°	129.9	128.7	128.7	127.3	128.7	128.7	129.9	129.9	131.3	128.7	126.1
82.5°	83.1	81.9	81.9	84.5	81.9	81.9	83.1	84.5	81.9	81.9	81.9
85°	45.4	46.8	44.2	44.2	44.2	46.8	45.4	42.9	45.4	45.4	44.2
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.5
90°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	61.2	81.7	91.9	79.0
92.5°	229.7	220.5	184.0	147.5	184.0	220.5	229.7	325.6	453.4	517.3	454.3
95°	779.7	751.9	641.3	530.6	641.3	751.9	779.7	1023.8	1349.3	1512.1	1277.0
97.5°	1799.8	1747.2	1536.5	1326.0	1536.5	1747.2	1799.8	1954.2	2159.9	2262.8	1870.9
100°	2527.4	2464.7	2213.9	1963.0	2213.9	2464.7	2527.4	2516.2	2501.2	2493.6	2058.7
102.5°	3148.8	3095.1	2880.2	2665.3	2880.2	3095.1	3148.8	2952.2	2690.0	2558.9	2117.8
105°	3874.1	3845.2	3729.7	3614.2	3729.7	3845.2	3874.1	3433.3	2845.6	2551.7	2124.5
107.5°	4251.2	4258.2	4286.1	4314.0	4286.1	4258.2	4251.2	3636.4	2816.5	2406.6	2030.1
110°	4347.9	4377.9	4498.3	4618.6	4498.3	4377.9	4347.9	3660.5	2744.0	2285.8	1946.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4286.2	4332.4	4517.2	4702.0	4517.2	4332.4	4286.2	3582.7	2644.7	2175.7	1873.0
115°	4077.1	4141.1	4397.4	4653.6	4397.4	4141.1	4077.1	3399.3	2495.8	2044.0	1789.1
117.5°	3788.2	3859.2	4143.4	4427.7	4143.4	3859.2	3788.2	3176.6	2361.1	1953.3	1736.5
120°	3593.6	3662.6	3938.8	4214.9	3938.8	3662.6	3593.6	3034.8	2289.7	1917.1	1718.8
122.5°	3399.0	3467.1	3739.5	4011.9	3739.5	3467.1	3399.0	2895.8	2224.7	1889.3	1709.6
125°	3141.5	3204.2	3455.2	3706.0	3455.2	3204.2	3141.5	2714.0	2144.0	1859.0	1701.9
127.5°	2934.8	2987.7	3199.4	3411.1	3199.4	2987.7	2934.8	2567.8	2078.3	1833.6	1697.5
130°	2804.3	2853.2	3048.8	3244.3	3048.8	2853.2	2804.3	2477.5	2041.8	1823.9	1700.1
132.5°	2693.0	2736.8	2911.9	3087.1	2911.9	2736.8	2693.0	2400.5	2010.5	1815.5	1702.0
135°	2536.0	2573.7	2724.6	2875.6	2724.6	2573.7	2536.0	2291.0	1964.4	1801.0	1700.3
137.5°	2419.9	2450.8	2574.3	2697.9	2574.3	2450.8	2419.9	2212.8	1936.7	1798.7	1710.8
140°	2326.9	2355.7	2471.2	2586.7	2471.2	2355.7	2326.9	2148.0	1909.4	1790.1	1712.5
142.5°	2261.5	2286.4	2385.8	2485.2	2385.8	2286.4	2261.5	2104.4	1894.9	1790.1	1718.7
145°	2163.7	2182.5	2257.7	2332.9	2257.7	2182.5	2163.7	2035.1	1863.7	1778.0	1718.7
147.5°	2081.4	2097.0	2159.3	2221.6	2159.3	2097.0	2081.4	1980.2	1845.5	1778.0	1730.5
150°	2034.3	2046.9	2097.5	2148.0	2097.5	2046.9	2034.3	1948.9	1835.0	1778.0	1736.6
152.5°	1996.8	2006.3	2044.5	2082.7	2044.5	2006.3	1996.8	1923.9	1826.7	1778.0	1740.7
155°	1952.1	1958.4	1983.7	2008.9	1983.7	1958.4	1952.1	1894.1	1816.7	1778.0	1749.5
157.5°	1913.5	1917.9	1935.6	1953.3	1935.6	1917.9	1913.5	1868.3	1808.2	1778.0	1758.4
160°	1894.1	1896.6	1906.9	1917.1	1906.9	1896.6	1894.1	1855.4	1803.8	1778.0	1762.4
162.5°	1876.0	1878.4	1888.0	1897.7	1888.0	1878.4	1876.0	1843.3	1799.8	1778.0	1766.8
165°	1848.2	1850.7	1861.0	1871.1	1861.0	1850.7	1848.2	1824.8	1793.6	1778.0	1772.9
167.5°	1836.1	1837.1	1841.5	1845.8	1841.5	1837.1	1836.1	1820.8	1800.3	1790.1	1785.9
170°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1820.8	1800.3	1790.1	1789.8
172.5°	1826.4	1825.4	1821.7	1817.9	1821.7	1825.4	1826.4	1814.3	1798.2	1790.1	1790.1
175°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1805.4	1795.3	1790.1	1792.6
177.5°	1810.7	1809.6	1805.2	1801.0	1805.2	1809.6	1810.7	1804.7	1796.6	1792.6	1794.4
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1356.9	1363.4	1367.4	1372.5	1385.5
5°	1305.0	1329.7	1337.4	1356.9	1380.3
7.5°	1190.5	1265.9	1286.7	1333.5	1369.9
10°	1080.0	1155.4	1191.9	1302.3	1356.9
12.5°	1024.1	1068.4	1093.0	1247.8	1338.7
15°	989.1	1020.3	1038.5	1174.9	1317.9
17.5°	961.8	983.9	996.9	1103.5	1289.4
20°	944.9	955.3	967.0	1051.5	1256.8
22.5°	933.2	926.8	935.8	1015.1	1212.6
25°	925.4	900.7	911.2	986.5	1160.7
27.5°	931.9	877.3	881.2	960.5	1106.1
30°	933.2	848.7	850.0	933.2	1045.0
32.5°	924.1	818.8	820.2	899.4	976.1
35°	902.0	783.7	782.5	860.4	882.5
37.5°	872.1	746.0	746.0	817.5	779.9
40°	835.8	708.3	712.2	761.6	688.9
42.5°	791.6	668.0	673.3	687.6	621.2
45°	743.4	629.1	633.0	581.0	569.3
47.5°	690.1	588.8	590.1	482.2	552.4
50°	626.5	547.2	542.0	413.3	551.1
52.5°	570.5	501.7	486.1	374.3	500.4
55°	516.0	453.6	419.8	344.4	464.0
57.5°	467.9	391.2	358.7	309.3	456.2
60°	423.7	330.1	305.4	271.6	418.5
62.5°	387.3	284.6	279.5	245.6	379.6
65°	348.4	253.5	252.1	223.5	322.3
67.5°	310.7	232.7	231.4	202.7	245.6
70°	270.4	210.6	207.9	180.6	182.0
72.5°	228.8	185.9	183.2	162.5	150.8
75°	187.1	157.3	156.0	141.7	122.2
77.5°	146.9	124.8	127.3	114.3	89.7
80°	105.2	91.0	93.6	81.9	67.5
82.5°	70.2	59.8	62.4	52.0	45.4
85°	39.0	33.8	35.1	27.3	20.8
87.5°	18.2	15.6	15.6	10.4	6.5
90°	53.2	33.8	31.4	21.8	12.1
92.5°	328.0	233.3	212.8	130.5	48.4
95°	807.0	454.5	416.9	266.5	116.1
97.5°	1087.1	499.2	466.1	333.3	200.7
100°	1189.1	536.7	506.6	386.2	265.9
102.5°	1235.8	574.1	546.0	433.8	321.5
105°	1270.4	629.8	606.0	510.9	415.8
107.5°	1276.9	711.9	689.7	601.2	512.5
110°	1267.2	757.9	737.9	657.9	577.8



TEST NUMBER: P935900

CATALOG NUMBER: SQ4-FA-150U-050D-B35-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1267.5	813.5	794.4	718.1	641.9
115°	1279.3	896.9	879.3	808.9	738.6
117.5°	1303.0	977.9	961.9	898.0	834.0
120°	1322.4	1025.0	1010.0	949.8	889.6
122.5°	1350.2	1080.6	1065.4	1004.8	944.0
125°	1387.6	1151.9	1138.1	1082.8	1027.4
127.5°	1425.1	1220.8	1206.9	1151.0	1095.2
130°	1452.5	1266.8	1251.8	1191.6	1131.4
132.5°	1474.7	1304.3	1289.3	1229.1	1168.9
135°	1498.8	1347.8	1334.1	1279.3	1224.4
137.5°	1535.1	1403.3	1389.7	1335.6	1281.3
140°	1557.3	1440.8	1428.3	1378.4	1328.4
142.5°	1575.8	1468.6	1457.1	1410.9	1364.6
145°	1600.0	1511.0	1500.9	1460.6	1420.3
147.5°	1635.5	1564.2	1554.4	1515.1	1475.9
150°	1653.9	1591.9	1583.1	1547.6	1512.1
152.5°	1666.1	1610.1	1603.4	1576.5	1549.6
155°	1692.6	1649.9	1645.0	1625.1	1605.2
157.5°	1719.2	1689.8	1685.0	1665.7	1646.3
160°	1731.3	1708.0	1704.2	1689.2	1674.1
162.5°	1744.2	1727.3	1724.5	1713.2	1702.0
165°	1762.7	1755.1	1752.5	1742.3	1732.1
167.5°	1777.2	1770.8	1769.6	1764.7	1759.9
170°	1789.4	1789.0	1787.7	1782.9	1778.0
172.5°	1790.1	1790.1	1789.8	1788.8	1787.7
175°	1797.4	1801.0	1801.0	1801.0	1801.0
177.5°	1798.2	1801.0	1801.0	1801.0	1801.0
180°	1801.0	1801.0	1801.0	1801.0	1801.0



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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	8.03	8.70	9.19	9.84	11.45	10.87	11.54	12.03	12.68	14.28
	3H	8.49	9.09	9.66	10.24	11.86	12.20	12.80	13.37	13.95	15.57
	4H	8.68	9.24	9.85	10.39	12.02	12.64	13.20	13.81	14.36	15.98
	6H	8.78	9.30	9.96	10.46	12.09	12.92	13.44	14.10	14.59	16.23
	8H	8.78	9.27	9.96	10.44	12.07	12.99	13.48	14.17	14.65	16.28
	12H	8.74	9.21	9.93	10.37	12.03	13.02	13.49	14.20	14.65	16.30
4H	2H	9.04	9.61	10.22	10.76	12.38	11.25	11.82	12.44	12.97	14.60
	3H	10.05	10.52	11.24	11.70	13.34	12.74	13.22	13.93	14.39	16.03
	4H	10.32	10.75	11.50	11.92	13.57	13.27	13.70	14.45	14.86	16.52
	6H	10.43	10.80	11.62	11.99	13.64	13.62	13.99	14.81	15.18	16.82
	8H	10.43	10.78	11.62	11.96	13.62	13.72	14.07	14.91	15.25	16.91
	12H	10.39	10.70	11.60	11.89	13.56	13.77	14.09	14.98	15.28	16.94
8H	4H	10.76	11.10	11.95	12.28	13.94	13.37	13.72	14.56	14.90	16.56
	6H	11.01	11.30	12.22	12.52	14.18	13.80	14.09	15.01	15.31	16.97
	8H	11.05	11.30	12.26	12.50	14.18	13.95	14.20	15.17	15.40	17.08
	12H	11.03	11.24	12.24	12.44	14.15	14.05	14.26	15.26	15.46	17.17
12H	4H	10.75	11.07	11.96	12.26	13.92	13.33	13.64	14.53	14.83	16.50
	6H	11.07	11.32	12.28	12.52	14.20	13.80	14.05	15.01	15.25	16.93
	8H	11.13	11.35	12.34	12.54	14.25	13.95	14.17	15.17	15.37	17.08