

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: P934040

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

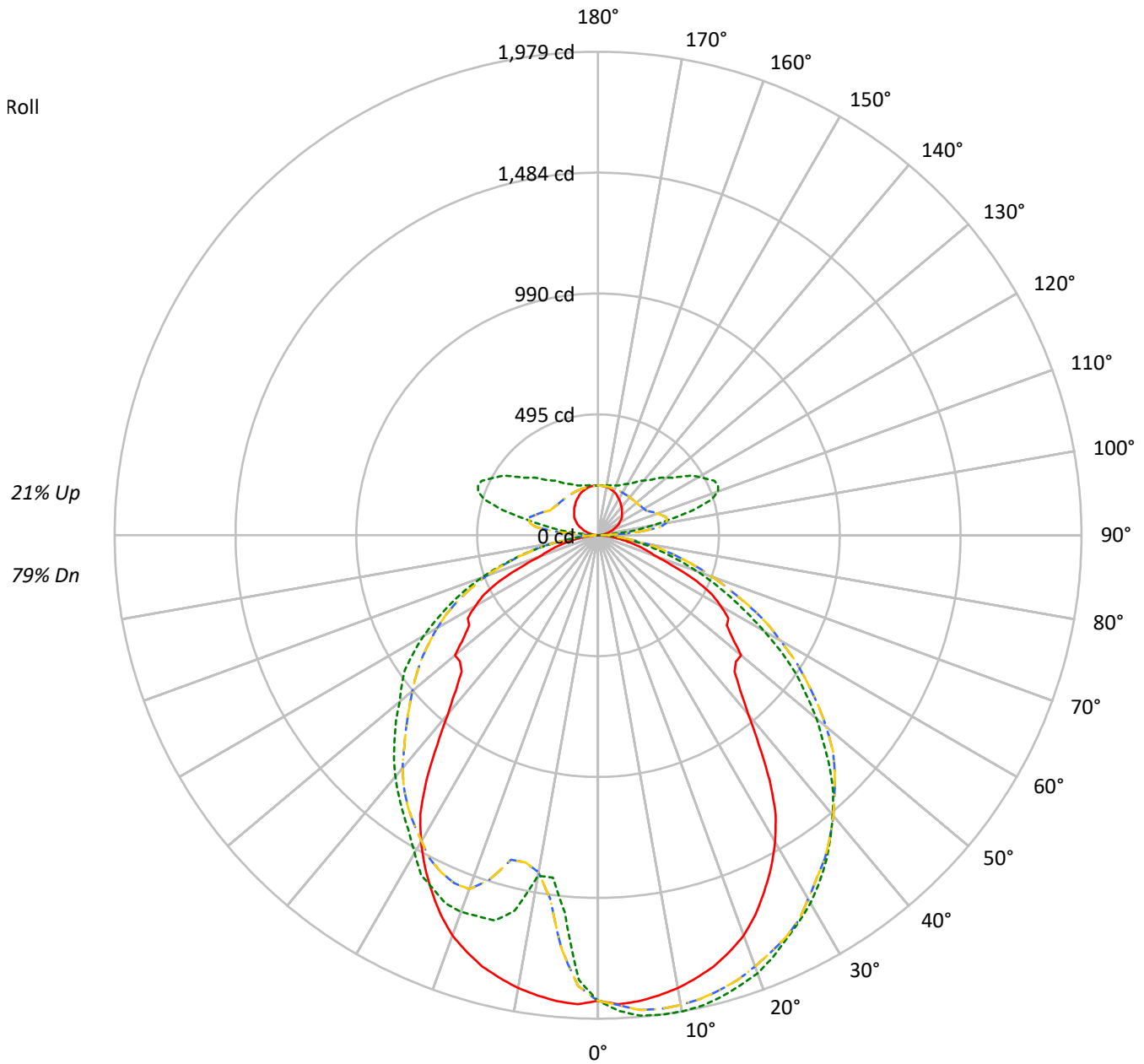
Test Method: LM-79-2019  
Report Number: P934040  
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6261.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 58.2  
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

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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
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79		
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67		
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56		
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47		
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41		
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

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

	0°	90°	180°	270°
0°	11786	11786	11786	11786
5°	11870	11898	11870	9355
10°	11787	11721	11787	8379
15°	11654	11466	11654	9575
20°	11406	11166	11406	9594
25°	10903	10727	10903	9391
30°	10254	10362	10254	8945
35°	9137	9902	9137	8454
40°	7609	9360	7609	8084
45°	6795	8725	6795	7657
50°	7212	7967	7212	7229
55°	6780	7151	6780	6982
60°	6979	6074	6979	6395
65°	6319	5020	6319	5612
70°	4364	4001	4364	4704
75°	3814	2958	3814	3542
80°	3050	1956	3050	2130
85°	1717	1036	1717	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10420 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.0	2.7
10°-20°	488.3	7.8
20°-30°	754.9	12.1
30°-40°	901.2	14.4
40°-50°	906.4	14.5
50°-60°	788.7	12.6
60°-70°	559.2	8.9
70°-80°	295.9	4.7
80°-90°	74.4	1.2
90°-100°	99.2	1.6
100°-110°	260.9	4.2
110°-120°	270.6	4.3
120°-130°	217.0	3.5
130°-140°	170.3	2.7
140°-150°	130.7	2.1
150°-160°	94.1	1.5
160°-170°	57.6	0.9
170°-180°	19.5	0.3
0°-30°	1415.2	22.6
0°-40°	2316.3	37.0
0°-60°	4011.5	64.1
0°-90°	4941.0	78.9
90°-120°	630.8	10.1
90°-150°	1148.8	18.3
90°-180°	1320.0	21.1
0°-180°	6261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1905	1905	1905	1905	1905	
5°	1914	1974	1914	1552	1914	182
15°	1828	1956	1828	1633	1828	514
25°	1610	1824	1610	1597	1610	739
35°	1224	1628	1224	1390	1224	757
45°	790	1341	790	1177	790	632
55°	644	990	644	966	644	591
65°	447	597	447	667	447	427
75°	170	283	170	339	170	178
85°	29	72	29	61	29	39
90°	1	5	1	5	1	2
95°	13	60	13	60	13	15
105°	47	409	47	409	47	50
115°	84	526	84	526	84	82
125°	116	419	116	419	116	103
135°	138	325	138	325	138	107
145°	161	264	161	264	161	101
155°	182	227	182	227	182	83
165°	196	212	196	212	196	55
175°	204	205	204	205	204	19
180°	204	204	204	204	204	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1921.6	1921.6	1932.4	1936.0	1936.0	1930.6	1925.2	1930.6	1946.8	1952.3	1950.4
5°	1914.3	1928.8	1948.6	1952.3	1955.8	1954.0	1950.4	1954.0	1972.0	1975.6	1977.5
7.5°	1900.0	1927.0	1952.3	1957.6	1963.0	1957.6	1955.8	1959.4	1977.5	1981.1	1981.1
10°	1881.9	1919.8	1948.6	1952.3	1957.6	1952.3	1952.3	1959.4	1977.5	1981.1	1982.8
12.5°	1856.7	1909.0	1936.0	1939.6	1946.8	1945.0	1943.2	1950.4	1968.5	1972.0	1972.0
15°	1827.8	1889.1	1914.3	1918.0	1930.6	1927.0	1927.0	1934.2	1954.0	1959.4	1957.6
17.5°	1788.2	1863.8	1892.8	1898.1	1907.1	1905.3	1907.1	1914.3	1932.4	1936.0	1937.8
20°	1743.1	1829.6	1863.8	1869.3	1878.3	1878.3	1878.3	1887.3	1905.3	1912.6	1912.6
22.5°	1681.8	1793.6	1829.6	1833.3	1844.1	1844.1	1847.7	1860.3	1876.5	1878.3	1878.3
25°	1609.7	1754.0	1784.6	1795.4	1806.2	1811.6	1817.0	1824.3	1829.6	1827.8	1829.6
27.5°	1534.0	1703.5	1743.1	1750.3	1764.8	1770.2	1777.3	1779.2	1781.0	1786.3	1782.8
30°	1449.3	1633.2	1692.7	1699.8	1723.3	1726.9	1719.7	1723.3	1732.3	1736.0	1739.5
32.5°	1353.7	1528.6	1640.3	1656.6	1678.2	1667.4	1665.6	1671.0	1685.5	1685.5	1689.0
35°	1224.0	1447.5	1591.7	1606.1	1622.3	1609.7	1617.0	1618.7	1627.7	1633.2	1631.3
37.5°	1081.6	1377.2	1541.2	1552.0	1564.7	1548.5	1559.2	1564.7	1571.9	1568.3	1568.3
40°	955.4	1267.2	1481.7	1489.0	1499.8	1487.2	1498.0	1501.5	1505.2	1501.5	1499.8
42.5°	861.6	1146.4	1418.7	1427.7	1420.5	1429.5	1433.0	1440.3	1434.9	1427.7	1427.7
45°	789.6	1114.0	1350.2	1361.0	1350.2	1364.5	1370.0	1370.0	1353.7	1350.2	1348.4
47.5°	766.1	1049.1	1281.7	1281.7	1276.2	1294.2	1303.2	1290.7	1274.4	1269.0	1269.0
50°	764.3	977.0	1187.9	1180.7	1205.9	1227.6	1218.5	1205.9	1193.4	1173.5	1173.5
52.5°	694.0	888.7	1067.1	1094.2	1133.9	1146.4	1132.0	1119.4	1097.7	1088.7	1081.6
55°	643.6	796.8	957.2	1011.2	1052.7	1068.9	1041.9	1029.3	996.9	991.4	987.9
57.5°	632.7	663.4	856.2	924.7	975.2	973.4	957.2	933.7	906.7	901.3	899.5
60°	580.4	479.5	748.1	829.2	881.4	876.1	861.6	840.0	814.8	811.2	807.6
62.5°	526.3	347.9	625.5	717.4	791.4	789.6	776.9	744.4	726.4	717.4	710.2
65°	447.1	292.0	445.3	596.6	703.1	706.6	679.6	656.1	636.3	625.5	623.7
67.5°	340.7	238.0	301.0	497.5	618.3	614.7	580.4	569.6	544.4	539.0	528.1
70°	252.3	158.6	209.1	403.8	535.4	526.3	499.3	486.7	463.3	450.6	443.4
72.5°	209.1	128.0	153.2	313.6	450.6	439.8	416.4	402.0	382.1	371.3	364.1
75°	169.5	135.2	117.2	232.5	365.9	358.8	337.1	322.6	306.5	292.0	293.8
77.5°	124.3	126.2	93.7	171.3	290.2	279.4	266.8	248.8	241.5	227.1	227.1
80°	93.7	99.2	70.3	117.2	209.1	209.1	198.3	185.7	173.0	165.8	165.8
82.5°	63.1	63.1	52.3	73.9	142.4	137.0	129.8	126.2	119.0	115.3	115.3
85°	28.8	36.0	32.5	45.0	77.5	81.1	81.1	77.5	75.7	72.1	73.9
87.5°	9.0	16.2	19.8	25.2	39.7	41.5	43.3	43.3	43.3	45.0	45.0
90°	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9	5.2	5.2
92.5°	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7	25.9	24.9
95°	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7	88.1	85.1
97.5°	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0	203.5	197.6
100°	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4	285.7	278.6
102.5°	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7	356.0	349.9
105°	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1	438.0	434.7
107.5°	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2	480.7	481.5
110°	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9	491.6	494.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1	484.6	489.7
115°	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3	460.9	468.2
117.5°	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1	428.3	436.3
120°	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1	406.3	414.2
122.5°	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4	384.3	392.1
125°	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9	355.2	362.3
127.5°	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4	331.8	337.8
130°	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1	317.0	322.6
132.5°	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4	304.5	309.4
135°	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1	286.7	291.0
137.5°	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2	273.6	277.1
140°	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9	263.1	266.3
142.5°	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0	255.7	258.5
145°	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0	244.6	246.7
147.5°	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9	235.3	237.1
150°	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3	230.0	231.4
152.5°	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5	225.8	226.9
155°	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1	220.7	221.4
157.5°	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2	216.3	216.9
160°	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8	214.1	214.4
162.5°	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4	212.1	212.4
165°	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3	208.9	209.2
167.5°	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9	207.6	207.7
170°	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9	207.6	207.6
172.5°	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1	206.5	206.4
175°	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1	205.0	205.0
177.5°	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0	204.8	204.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1954.0	1948.6	1954.0	1950.4	1952.3	1946.8	1930.6	1925.2	1930.6	1936.0	1936.0
5°	1977.5	1973.8	1977.5	1977.5	1975.6	1972.0	1954.0	1950.4	1954.0	1955.8	1952.3
7.5°	1984.6	1979.3	1984.6	1981.1	1981.1	1977.5	1959.4	1955.8	1957.6	1963.0	1957.6
10°	1984.6	1979.3	1984.6	1982.8	1981.1	1977.5	1959.4	1952.3	1952.3	1957.6	1952.3
12.5°	1975.6	1972.0	1975.6	1972.0	1972.0	1968.5	1950.4	1943.2	1945.0	1946.8	1939.6
15°	1961.3	1955.8	1961.3	1957.6	1959.4	1954.0	1934.2	1927.0	1927.0	1930.6	1918.0
17.5°	1939.6	1932.4	1939.6	1937.8	1936.0	1932.4	1914.3	1907.1	1905.3	1907.1	1898.1
20°	1914.3	1909.0	1914.3	1912.6	1912.6	1905.3	1887.3	1878.3	1878.3	1878.3	1869.3
22.5°	1874.7	1869.3	1874.7	1878.3	1878.3	1876.5	1860.3	1847.7	1844.1	1844.1	1833.3
25°	1829.6	1824.3	1829.6	1829.6	1827.8	1829.6	1824.3	1817.0	1811.6	1806.2	1795.4
27.5°	1786.3	1782.8	1786.3	1782.8	1786.3	1781.0	1779.2	1777.3	1770.2	1764.8	1750.3
30°	1743.1	1739.5	1743.1	1739.5	1736.0	1732.3	1723.3	1719.7	1726.9	1723.3	1699.8
32.5°	1689.0	1685.5	1689.0	1689.0	1685.5	1685.5	1671.0	1665.6	1667.4	1678.2	1656.6
35°	1633.2	1627.7	1633.2	1631.3	1633.2	1627.7	1618.7	1617.0	1609.7	1622.3	1606.1
37.5°	1568.3	1562.8	1568.3	1568.3	1568.3	1571.9	1564.7	1559.2	1548.5	1564.7	1552.0
40°	1501.5	1494.4	1501.5	1499.8	1501.5	1505.2	1501.5	1498.0	1487.2	1499.8	1489.0
42.5°	1425.9	1424.0	1425.9	1427.7	1427.7	1434.9	1440.3	1433.0	1429.5	1420.5	1427.7
45°	1344.7	1341.2	1344.7	1348.4	1350.2	1353.7	1370.0	1370.0	1364.5	1350.2	1361.0
47.5°	1258.2	1249.2	1258.2	1269.0	1269.0	1274.4	1290.7	1303.2	1294.2	1276.2	1281.7
50°	1166.2	1168.1	1166.2	1173.5	1173.5	1193.4	1205.9	1218.5	1227.6	1205.9	1180.7
52.5°	1076.2	1074.4	1076.2	1081.6	1088.7	1097.7	1119.4	1132.0	1146.4	1133.9	1094.2
55°	986.0	989.6	986.0	987.9	991.4	996.9	1029.3	1041.9	1068.9	1052.7	1011.2
57.5°	895.9	890.4	895.9	899.5	901.3	906.7	933.7	957.2	973.4	975.2	924.7
60°	791.4	784.1	791.4	807.6	811.2	814.8	840.0	861.6	876.1	881.4	829.2
62.5°	699.4	686.8	699.4	710.2	717.4	726.4	744.4	776.9	789.6	791.4	717.4
65°	602.1	596.6	602.1	623.7	625.5	636.3	656.1	679.6	706.6	703.1	596.6
67.5°	513.8	513.8	513.8	528.1	539.0	544.4	569.6	580.4	614.7	618.3	497.5
70°	432.6	430.8	432.6	443.4	450.6	463.3	486.7	499.3	526.3	535.4	403.8
72.5°	355.1	353.3	355.1	364.1	371.3	382.1	402.0	416.4	439.8	450.6	313.6
75°	286.6	283.0	286.6	293.8	292.0	306.5	322.6	337.1	358.8	365.9	232.5
77.5°	220.0	220.0	220.0	227.1	227.1	241.5	248.8	266.8	279.4	290.2	171.3
80°	164.0	162.3	164.0	165.8	165.8	173.0	185.7	198.3	209.1	209.1	117.2
82.5°	115.3	111.8	115.3	115.3	115.3	119.0	126.2	129.8	137.0	142.4	73.9
85°	72.1	72.1	72.1	73.9	72.1	75.7	77.5	81.1	81.1	77.5	45.0
87.5°	46.8	45.0	46.8	45.0	45.0	43.3	43.3	43.3	41.5	39.7	25.2
90°	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9	6.0	3.8
92.5°	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4	37.1	26.4
95°	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4	91.2	51.4
97.5°	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5	122.9	56.4
100°	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8	134.4	60.7
102.5°	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4	139.7	64.9
105°	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1	143.6	71.2
107.5°	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5	144.4	80.5
110°	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0	143.3	85.7





TEST NUMBER: P934040

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8	143.3	92.0
115°	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2	144.6	101.4
117.5°	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3	147.3	110.5
120°	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4	149.5	115.9
122.5°	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3	152.6	122.2
125°	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5	156.9	130.3
127.5°	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9	161.1	138.0
130°	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2	164.2	143.2
132.5°	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5	166.7	147.5
135°	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3	169.5	152.4
137.5°	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5	173.6	158.6
140°	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7	176.1	162.9
142.5°	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3	178.1	166.0
145°	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3	180.9	170.8
147.5°	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7	184.9	176.8
150°	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4	187.0	180.0
152.5°	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8	188.4	182.0
155°	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8	191.4	186.6
157.5°	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8	194.4	191.0
160°	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3	195.8	193.1
162.5°	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8	197.2	195.3
165°	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5	199.3	198.4
167.5°	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9	200.9	200.2
170°	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4	202.3	202.2
172.5°	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7	203.2	203.7
177.5°	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8	203.3	203.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P934040

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1932.4	1921.6	1921.6	1903.5	1896.3	1891.0	1881.9	1854.8	1847.7	1840.5	1851.3
5°	1948.6	1928.8	1914.3	1881.9	1854.8	1844.1	1809.8	1745.0	1701.7	1669.2	1651.2
7.5°	1952.3	1927.0	1900.0	1849.5	1784.6	1755.7	1651.2	1532.2	1499.8	1470.9	1452.9
10°	1948.6	1919.8	1881.9	1806.2	1653.0	1602.5	1498.0	1420.5	1400.7	1395.2	1400.7
12.5°	1936.0	1909.0	1856.7	1730.5	1516.0	1481.7	1420.5	1375.4	1371.8	1380.8	1429.5
15°	1914.3	1889.1	1827.8	1629.5	1440.3	1415.0	1371.8	1355.5	1375.4	1438.5	1584.5
17.5°	1892.8	1863.8	1788.2	1530.4	1382.6	1364.5	1333.9	1366.4	1478.2	1562.8	1611.5
20°	1863.8	1829.6	1743.1	1458.3	1341.2	1324.9	1310.5	1456.5	1541.2	1571.9	1598.9
22.5°	1829.6	1793.6	1681.8	1407.8	1297.9	1285.2	1294.2	1507.0	1541.2	1562.8	1586.3
25°	1784.6	1754.0	1609.7	1368.2	1263.7	1249.2	1283.5	1501.5	1521.4	1526.8	1573.7
27.5°	1743.1	1703.5	1534.0	1332.2	1222.2	1216.7	1292.5	1478.2	1492.5	1498.0	1548.5
30°	1692.7	1633.2	1449.3	1294.2	1178.9	1177.1	1294.2	1449.3	1445.7	1460.1	1510.5
32.5°	1640.3	1528.6	1353.7	1247.4	1137.4	1135.7	1281.7	1406.0	1402.4	1422.2	1460.1
35°	1591.7	1447.5	1224.0	1193.4	1085.2	1086.9	1251.0	1355.5	1357.4	1375.4	1398.8
37.5°	1541.2	1377.2	1081.6	1133.9	1034.7	1034.7	1209.5	1308.7	1305.1	1310.5	1342.9
40°	1481.7	1267.2	955.4	1056.4	987.9	982.4	1159.1	1258.2	1245.6	1243.8	1288.9
42.5°	1418.7	1146.4	861.6	953.6	933.7	926.6	1097.7	1196.9	1173.5	1178.9	1236.6
45°	1350.2	1114.0	789.6	805.8	877.9	872.4	1031.1	1126.6	1110.4	1124.9	1184.3
47.5°	1281.7	1049.1	766.1	668.8	818.4	816.6	957.2	1058.1	1049.1	1063.5	1126.6
50°	1187.9	977.0	764.3	573.3	751.7	758.9	868.9	991.4	991.4	1004.1	1070.7
52.5°	1067.1	888.7	694.0	519.1	674.1	695.8	791.4	933.7	937.4	949.9	1009.4
55°	957.2	796.8	643.6	477.7	582.3	629.1	715.6	874.3	881.4	894.1	948.2
57.5°	856.2	663.4	632.7	429.0	497.5	542.6	648.9	816.6	820.2	831.0	883.3
60°	748.1	479.5	580.4	376.8	423.6	457.8	587.6	748.1	760.7	767.9	812.9
62.5°	625.5	347.9	526.3	340.7	387.6	394.8	537.1	683.2	699.4	704.8	731.9
65°	445.3	292.0	447.1	310.0	349.7	351.5	483.1	616.5	630.9	639.9	659.8
67.5°	301.0	238.0	340.7	281.2	320.8	322.6	430.8	539.0	558.8	566.0	578.6
70°	209.1	158.6	252.3	250.6	288.4	292.0	375.0	468.6	486.7	492.1	499.3
72.5°	153.2	128.0	209.1	225.3	254.2	257.8	317.3	389.3	407.4	412.8	416.4
75°	117.2	135.2	169.5	196.5	216.3	218.1	259.6	317.3	329.8	333.5	335.3
77.5°	93.7	126.2	124.3	158.6	176.7	173.0	203.7	245.1	256.0	256.0	256.0
80°	70.3	99.2	93.7	113.5	129.8	126.2	146.0	174.8	178.5	182.0	180.3
82.5°	52.3	63.1	63.1	72.1	86.5	83.0	97.3	113.5	113.5	113.5	117.2
85°	32.5	36.0	28.8	37.8	48.7	46.8	54.1	61.3	63.1	63.1	59.5
87.5°	19.8	16.2	9.0	14.5	21.6	21.6	25.2	27.0	25.2	25.2	25.2
90°	3.5	2.5	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9
92.5°	24.0	14.7	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7
95°	47.1	30.1	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7
97.5°	52.7	37.7	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0
100°	57.3	43.7	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4
102.5°	61.8	49.1	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7
105°	68.5	57.8	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1
107.5°	78.0	67.9	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2
110°	83.4	74.4	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9



TEST NUMBER: P934040

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	89.8	81.2	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1
115°	99.4	91.5	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3
117.5°	108.7	101.5	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1
120°	114.2	107.4	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1
122.5°	120.4	113.6	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4
125°	128.7	122.4	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9
127.5°	136.4	130.1	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4
130°	141.4	134.7	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1
132.5°	145.7	139.0	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4
135°	150.8	144.6	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1
137.5°	157.1	151.0	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2
140°	161.5	155.8	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9
142.5°	164.7	159.5	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0
145°	169.6	165.1	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0
147.5°	175.7	171.3	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9
150°	179.0	174.9	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3
152.5°	181.3	178.2	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5
155°	186.0	183.7	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1
157.5°	190.5	188.3	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2
160°	192.7	191.0	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8
162.5°	194.9	193.7	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4
165°	198.1	196.9	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3
167.5°	200.0	199.5	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9
170°	202.1	201.6	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9
172.5°	202.4	202.2	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1
175°	203.7	203.7	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1
177.5°	203.7	203.7	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P934040

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1838.6	1833.3	1840.5	1820.6	1840.5	1833.3	1838.6	1851.3	1840.5	1847.7	1854.8
5°	1613.3	1604.3	1575.5	1552.0	1575.5	1604.3	1613.3	1651.2	1669.2	1701.7	1745.0
7.5°	1442.0	1434.9	1427.7	1413.2	1427.7	1434.9	1442.0	1452.9	1470.9	1499.8	1532.2
10°	1404.2	1406.0	1416.9	1415.0	1416.9	1406.0	1404.2	1400.7	1395.2	1400.7	1420.5
12.5°	1501.5	1517.8	1577.3	1573.7	1577.3	1517.8	1501.5	1429.5	1380.8	1371.8	1375.4
15°	1613.3	1618.7	1631.3	1633.2	1631.3	1618.7	1613.3	1584.5	1438.5	1375.4	1355.5
17.5°	1624.2	1626.0	1635.0	1635.0	1635.0	1626.0	1624.2	1611.5	1562.8	1478.2	1366.4
20°	1615.2	1618.7	1636.8	1640.3	1636.8	1618.7	1615.2	1598.9	1571.9	1541.2	1456.5
22.5°	1611.5	1618.7	1633.2	1631.3	1633.2	1618.7	1611.5	1586.3	1562.8	1541.2	1507.0
25°	1593.5	1593.5	1595.3	1597.1	1595.3	1593.5	1593.5	1573.7	1526.8	1521.4	1501.5
27.5°	1555.7	1559.2	1570.0	1568.3	1570.0	1559.2	1555.7	1548.5	1498.0	1492.5	1478.2
30°	1521.4	1517.8	1508.8	1501.5	1508.8	1517.8	1521.4	1510.5	1460.1	1445.7	1449.3
32.5°	1463.7	1454.7	1445.7	1440.3	1445.7	1454.7	1463.7	1460.1	1422.2	1402.4	1406.0
35°	1395.2	1397.0	1395.2	1389.8	1395.2	1397.0	1395.2	1398.8	1375.4	1357.4	1355.5
37.5°	1346.5	1350.2	1348.4	1341.2	1348.4	1350.2	1346.5	1342.9	1310.5	1305.1	1308.7
40°	1296.1	1297.9	1296.1	1290.7	1296.1	1297.9	1296.1	1288.9	1243.8	1245.6	1258.2
42.5°	1247.4	1245.6	1240.2	1236.6	1240.2	1245.6	1247.4	1236.6	1178.9	1173.5	1196.9
45°	1191.5	1193.4	1182.5	1177.1	1182.5	1193.4	1191.5	1184.3	1124.9	1110.4	1126.6
47.5°	1135.7	1135.7	1126.6	1121.2	1126.6	1135.7	1135.7	1126.6	1063.5	1049.1	1058.1
50°	1076.2	1074.4	1061.7	1059.9	1061.7	1074.4	1076.2	1070.7	1004.1	991.4	991.4
52.5°	1007.7	1007.7	1009.4	1013.1	1009.4	1007.7	1007.7	1009.4	949.9	937.4	933.7
55°	948.2	949.9	962.6	966.2	962.6	949.9	948.2	948.2	894.1	881.4	874.3
57.5°	886.9	886.9	895.9	895.9	895.9	886.9	886.9	883.3	831.0	820.2	816.6
60°	816.6	820.2	827.4	825.6	827.4	820.2	816.6	812.9	767.9	760.7	748.1
62.5°	742.6	746.3	748.1	744.4	748.1	746.3	742.6	731.9	704.8	699.4	683.2
65°	665.1	668.8	670.6	666.9	670.6	668.8	665.1	659.8	639.9	630.9	616.5
67.5°	585.8	584.1	582.3	589.4	582.3	584.1	585.8	578.6	566.0	558.8	539.0
70°	504.8	504.8	502.9	506.5	502.9	504.8	504.8	499.3	492.1	486.7	468.6
72.5°	418.2	416.4	423.6	418.2	423.6	416.4	418.2	416.4	412.8	407.4	389.3
75°	333.5	337.1	333.5	338.9	333.5	337.1	333.5	335.3	333.5	329.8	317.3
77.5°	254.2	257.8	254.2	254.2	254.2	257.8	254.2	256.0	256.0	256.0	245.1
80°	180.3	178.5	178.5	176.7	178.5	178.5	180.3	180.3	182.0	178.5	174.8
82.5°	115.3	113.5	113.5	117.2	113.5	113.5	115.3	117.2	113.5	113.5	113.5
85°	63.1	64.9	61.3	61.3	61.3	64.9	63.1	59.5	63.1	63.1	61.3
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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9
92.5°	25.9	24.9	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4
95°	88.1	85.1	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4
97.5°	203.5	197.6	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5
100°	285.7	278.6	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8
102.5°	356.0	349.9	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4
105°	438.0	434.7	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1
107.5°	480.7	481.5	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5
110°	491.6	494.9	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	484.6	489.7	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8
115°	460.9	468.2	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2
117.5°	428.3	436.3	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3
120°	406.3	414.2	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4
122.5°	384.3	392.1	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3
125°	355.2	362.3	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5
127.5°	331.8	337.8	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9
130°	317.0	322.6	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2
132.5°	304.5	309.4	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5
135°	286.7	291.0	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3
137.5°	273.6	277.1	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5
140°	263.1	266.3	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7
142.5°	255.7	258.5	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3
145°	244.6	246.7	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3
147.5°	235.3	237.1	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7
150°	230.0	231.4	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4
152.5°	225.8	226.9	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8
155°	220.7	221.4	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8
157.5°	216.3	216.9	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8
160°	214.1	214.4	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3
162.5°	212.1	212.4	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8
165°	208.9	209.2	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5
167.5°	207.6	207.7	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9
170°	207.6	207.6	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4
172.5°	206.5	206.4	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7
177.5°	204.8	204.7	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1881.9	1891.0	1896.3	1903.5	1921.6
5°	1809.8	1844.1	1854.8	1881.9	1914.3
7.5°	1651.2	1755.7	1784.6	1849.5	1900.0
10°	1498.0	1602.5	1653.0	1806.2	1881.9
12.5°	1420.5	1481.7	1516.0	1730.5	1856.7
15°	1371.8	1415.0	1440.3	1629.5	1827.8
17.5°	1333.9	1364.5	1382.6	1530.4	1788.2
20°	1310.5	1324.9	1341.2	1458.3	1743.1
22.5°	1294.2	1285.2	1297.9	1407.8	1681.8
25°	1283.5	1249.2	1263.7	1368.2	1609.7
27.5°	1292.5	1216.7	1222.2	1332.2	1534.0
30°	1294.2	1177.1	1178.9	1294.2	1449.3
32.5°	1281.7	1135.7	1137.4	1247.4	1353.7
35°	1251.0	1086.9	1085.2	1193.4	1224.0
37.5°	1209.5	1034.7	1034.7	1133.9	1081.6
40°	1159.1	982.4	987.9	1056.4	955.4
42.5°	1097.7	926.6	933.7	953.6	861.6
45°	1031.1	872.4	877.9	805.8	789.6
47.5°	957.2	816.6	818.4	668.8	766.1
50°	868.9	758.9	751.7	573.3	764.3
52.5°	791.4	695.8	674.1	519.1	694.0
55°	715.6	629.1	582.3	477.7	643.6
57.5°	648.9	542.6	497.5	429.0	632.7
60°	587.6	457.8	423.6	376.8	580.4
62.5°	537.1	394.8	387.6	340.7	526.3
65°	483.1	351.5	349.7	310.0	447.1
67.5°	430.8	322.6	320.8	281.2	340.7
70°	375.0	292.0	288.4	250.6	252.3
72.5°	317.3	257.8	254.2	225.3	209.1
75°	259.6	218.1	216.3	196.5	169.5
77.5°	203.7	173.0	176.7	158.6	124.3
80°	146.0	126.2	129.8	113.5	93.7
82.5°	97.3	83.0	86.5	72.1	63.1
85°	54.1	46.8	48.7	37.8	28.8
87.5°	25.2	21.6	21.6	14.5	9.0
90°	6.0	3.8	3.5	2.5	1.4
92.5°	37.1	26.4	24.0	14.7	5.5
95°	91.2	51.4	47.1	30.1	13.1
97.5°	122.9	56.4	52.7	37.7	22.6
100°	134.4	60.7	57.3	43.7	30.1
102.5°	139.7	64.9	61.8	49.1	36.4
105°	143.6	71.2	68.5	57.8	47.0
107.5°	144.4	80.5	78.0	67.9	57.9
110°	143.3	85.7	83.4	74.4	65.3



TEST NUMBER: P934040

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	143.3	92.0	89.8	81.2	72.6
115°	144.6	101.4	99.4	91.5	83.5
117.5°	147.3	110.5	108.7	101.5	94.3
120°	149.5	115.9	114.2	107.4	100.6
122.5°	152.6	122.2	120.4	113.6	106.7
125°	156.9	130.3	128.7	122.4	116.2
127.5°	161.1	138.0	136.4	130.1	123.8
130°	164.2	143.2	141.4	134.7	127.9
132.5°	166.7	147.5	145.7	139.0	132.2
135°	169.5	152.4	150.8	144.6	138.4
137.5°	173.6	158.6	157.1	151.0	144.9
140°	176.1	162.9	161.5	155.8	150.2
142.5°	178.1	166.0	164.7	159.5	154.3
145°	180.9	170.8	169.6	165.1	160.6
147.5°	184.9	176.8	175.7	171.3	166.8
150°	187.0	180.0	179.0	174.9	170.9
152.5°	188.4	182.0	181.3	178.2	175.2
155°	191.4	186.6	186.0	183.7	181.5
157.5°	194.4	191.0	190.5	188.3	186.1
160°	195.8	193.1	192.7	191.0	189.3
162.5°	197.2	195.3	194.9	193.7	192.4
165°	199.3	198.4	198.1	196.9	195.8
167.5°	200.9	200.2	200.0	199.5	198.9
170°	202.3	202.2	202.1	201.6	201.0
172.5°	202.4	202.4	202.4	202.2	202.1
175°	203.2	203.7	203.7	203.7	203.7
177.5°	203.3	203.7	203.7	203.7	203.7
180°	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P934040  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.71	16.91	16.37	17.58	18.37	18.53	19.73	19.19	20.41	21.20
	3H	16.21	17.29	16.89	17.98	18.80	19.90	20.98	20.58	21.67	22.49
	4H	16.42	17.43	17.11	18.13	18.97	20.36	21.37	21.05	22.07	22.91
	6H	16.55	17.49	17.26	18.20	19.05	20.66	21.60	21.37	22.31	23.16
	8H	16.56	17.46	17.28	18.19	19.04	20.74	21.64	21.46	22.37	23.22
	12H	16.55	17.40	17.27	18.12	19.00	20.79	21.65	21.52	22.37	23.25
4H	2H	16.78	17.79	17.48	18.49	19.33	18.98	20.00	19.68	20.70	21.53
	3H	17.84	18.68	18.55	19.42	20.27	20.52	21.36	21.23	22.10	22.95
	4H	18.13	18.90	18.85	19.63	20.52	21.06	21.83	21.78	22.57	23.45
	6H	18.27	18.94	19.02	19.70	20.59	21.44	22.11	22.19	22.87	23.76
	8H	18.28	18.91	19.04	19.67	20.57	21.55	22.18	22.30	22.94	23.84
	12H	18.27	18.83	19.04	19.61	20.52	21.63	22.19	22.40	22.97	23.88
8H	4H	18.61	19.23	19.36	19.99	20.89	21.21	21.83	21.96	22.59	23.50
	6H	18.88	19.40	19.66	20.20	21.11	21.66	22.17	22.44	22.98	23.88
	8H	18.93	19.39	19.72	20.19	21.11	21.81	22.27	22.61	23.07	24.00
	12H	18.93	19.33	19.72	20.13	21.11	21.92	22.33	22.72	23.12	24.10
12H	4H	18.63	19.19	19.40	19.97	20.88	21.19	21.75	21.96	22.53	23.44
	6H	18.95	19.41	19.74	20.21	21.13	21.66	22.12	22.45	22.92	23.84
	8H	19.03	19.43	19.82	20.23	21.21	21.83	22.24	22.63	23.03	24.01