

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: P934024

Luminaire Tested: SQ4-FA-025U-100D-927-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

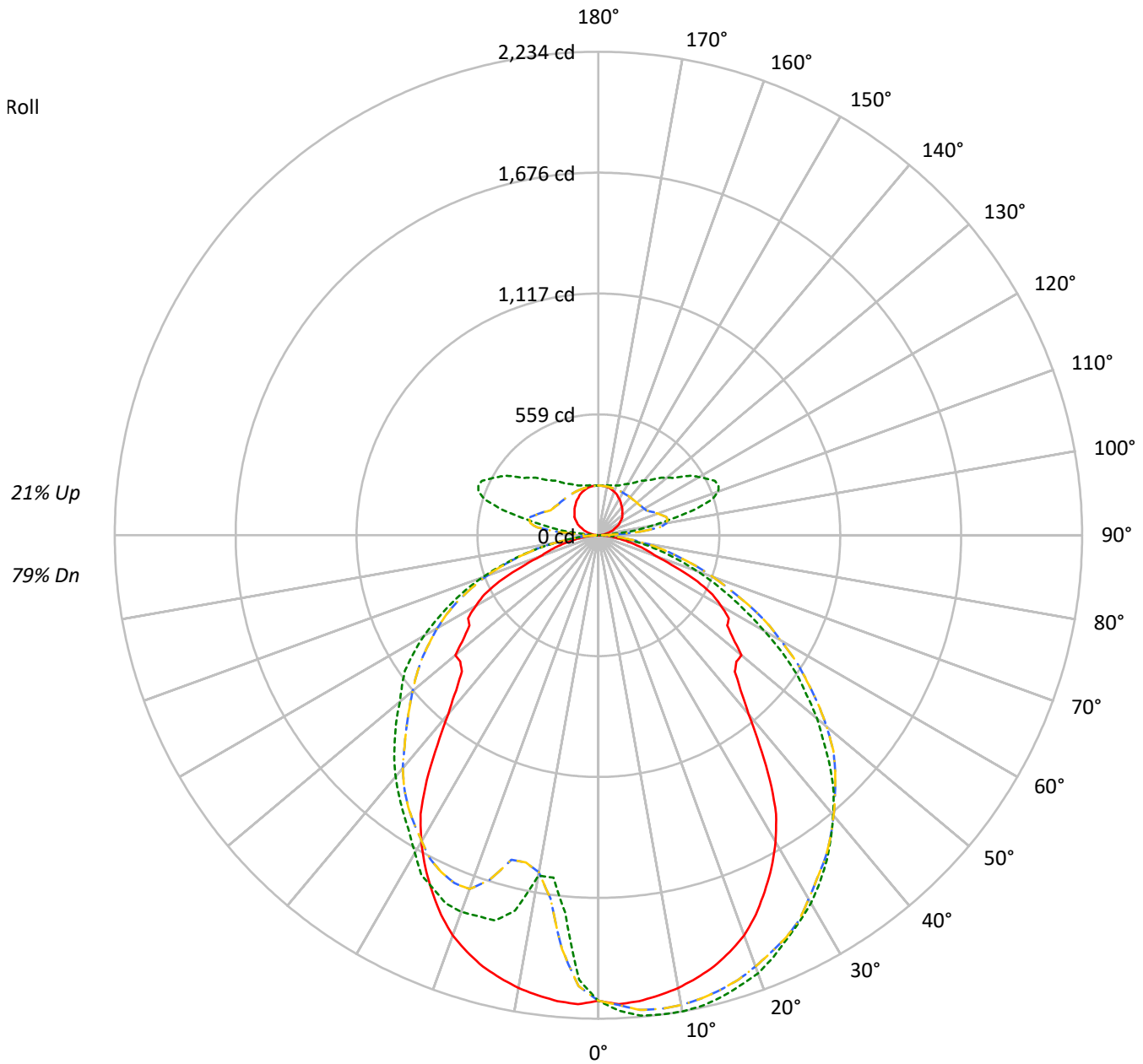
Test Method: LM-79-2019  
Report Number: P934024  
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-927-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7067.1 lumens  
Efficiency: N/A  
Efficacy: 91.1 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-Direct  
  
Input Watts (W): 77.6  
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				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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

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

	0°	90°	180°	270°
0°	9978	9978	9978	9978
5°	10053	10073	10053	7920
10°	9986	9922	9986	7093
15°	9877	9707	9877	8106
20°	9671	9453	9671	8123
25°	9248	9081	9248	7950
30°	8701	8773	8701	7573
35°	7757	8383	7757	7157
40°	6464	7924	6464	6843
45°	5775	7386	5775	6482
50°	6136	6745	6136	6120
55°	5773	6054	5773	5911
60°	5951	5142	5951	5414
65°	5395	4251	5395	4751
70°	3735	3387	3735	3982
75°	3276	2504	3276	2998
80°	2640	1655	2640	1803
85°	1518	877	1518	744

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8852 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.1	2.7
10°-20°	551.2	7.8
20°-30°	852.1	12.1
30°-40°	1017.2	14.4
40°-50°	1023.2	14.5
50°-60°	890.3	12.6
60°-70°	631.2	8.9
70°-80°	333.9	4.7
80°-90°	84.0	1.2
90°-100°	112.0	1.6
100°-110°	294.5	4.2
110°-120°	305.4	4.3
120°-130°	245.0	3.5
130°-140°	192.2	2.7
140°-150°	147.5	2.1
150°-160°	106.2	1.5
160°-170°	65.0	0.9
170°-180°	22.0	0.3
0°-30°	1597.4	22.6
0°-40°	2614.6	37.0
0°-60°	4528.0	64.1
0°-90°	5577.2	78.9
90°-120°	711.9	10.1
90°-150°	1296.7	18.3
90°-180°	1490.0	21.1
0°-180°	7067.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2151	2151	2151	2151	2151	
5°	2161	2228	2161	1752	2161	205
15°	2063	2208	2063	1844	2063	581
25°	1817	2059	1817	1803	1817	834
35°	1382	1837	1382	1569	1382	855
45°	891	1514	891	1329	891	714
55°	726	1117	726	1091	726	667
65°	505	674	505	753	505	482
75°	191	320	191	382	191	201
85°	33	81	33	69	33	44
90°	2	6	2	6	2	3
95°	15	68	15	68	15	16
105°	53	461	53	461	53	56
115°	94	594	94	594	94	93
125°	131	473	131	473	131	116
135°	156	367	156	367	156	121
145°	181	298	181	298	181	114
155°	205	256	205	256	205	94
165°	221	239	221	239	221	62
175°	230	231	230	231	230	22
180°	230	230	230	230	230	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2169.0	2169.0	2181.2	2185.3	2185.3	2179.2	2173.1	2179.2	2197.5	2203.6	2201.6
5°	2160.9	2177.1	2199.5	2203.6	2207.7	2205.6	2201.6	2205.6	2226.0	2230.1	2232.1
7.5°	2144.6	2175.1	2203.6	2209.7	2215.8	2209.7	2207.7	2211.7	2232.1	2236.2	2236.2
10°	2124.2	2166.9	2199.5	2203.6	2209.7	2203.6	2203.6	2211.7	2232.1	2236.2	2238.2
12.5°	2095.7	2154.8	2185.3	2189.3	2197.5	2195.4	2193.4	2201.6	2221.9	2226.0	2226.0
15°	2063.2	2132.4	2160.9	2164.9	2179.2	2175.1	2175.1	2183.3	2205.6	2211.7	2209.7
17.5°	2018.4	2103.9	2136.4	2142.5	2152.7	2150.7	2152.7	2160.9	2181.2	2185.3	2187.3
20°	1967.6	2065.2	2103.9	2110.0	2120.2	2120.2	2120.2	2130.4	2150.7	2158.8	2158.8
22.5°	1898.4	2024.6	2065.2	2069.3	2081.5	2081.5	2085.5	2099.8	2118.1	2120.2	2120.2
25°	1817.0	1979.7	2014.3	2026.6	2038.8	2044.9	2051.0	2059.1	2065.2	2063.2	2065.2
27.5°	1731.5	1922.8	1967.6	1975.7	1992.0	1998.1	2006.2	2008.2	2010.3	2016.4	2012.3
30°	1635.9	1843.5	1910.6	1918.8	1945.2	1949.3	1941.1	1945.2	1955.3	1959.4	1963.5
32.5°	1528.1	1725.4	1851.6	1869.9	1894.3	1882.1	1880.0	1886.2	1902.4	1902.4	1906.5
35°	1381.5	1633.9	1796.6	1812.9	1831.2	1817.0	1825.1	1827.1	1837.4	1843.5	1841.4
37.5°	1220.8	1554.5	1739.7	1751.9	1766.1	1747.8	1760.0	1766.1	1774.2	1770.2	1770.2
40°	1078.4	1430.4	1672.5	1680.7	1692.8	1678.6	1690.8	1694.9	1699.0	1694.9	1692.8
42.5°	972.6	1294.1	1601.3	1611.5	1603.4	1613.5	1617.6	1625.7	1619.6	1611.5	1611.5
45°	891.2	1257.4	1524.0	1536.2	1524.0	1540.3	1546.4	1546.4	1528.1	1524.0	1522.0
47.5°	864.8	1184.2	1446.7	1446.7	1440.6	1460.9	1471.1	1456.8	1438.5	1432.4	1432.4
50°	862.7	1102.8	1340.9	1332.7	1361.2	1385.6	1375.5	1361.2	1347.0	1324.6	1324.6
52.5°	783.4	1003.1	1204.5	1235.1	1279.8	1294.1	1277.8	1263.6	1239.2	1229.0	1220.8
55°	726.4	899.4	1080.5	1141.4	1188.3	1206.6	1176.0	1161.9	1125.2	1119.1	1115.0
57.5°	714.2	748.7	966.5	1043.8	1100.8	1098.7	1080.5	1054.0	1023.5	1017.3	1015.3
60°	655.2	541.2	844.4	935.9	995.0	988.8	972.6	948.2	919.7	915.6	911.5
62.5°	594.1	392.7	706.0	809.8	893.2	891.2	877.0	840.3	820.0	809.8	801.6
65°	504.6	329.6	502.6	673.5	793.6	797.6	767.1	740.7	718.3	706.0	704.0
67.5°	384.5	268.6	339.8	561.6	697.9	693.8	655.2	643.0	614.5	608.4	596.1
70°	284.8	179.0	236.0	455.8	604.3	594.1	563.6	549.4	522.9	508.7	500.5
72.5°	236.0	144.5	172.9	354.0	508.7	496.5	470.0	453.8	431.4	419.1	411.0
75°	191.3	152.6	132.3	262.5	413.0	404.9	380.5	364.2	345.9	329.6	331.6
77.5°	140.4	142.5	105.8	193.3	327.6	315.4	301.1	280.8	272.7	256.4	256.4
80°	105.8	111.9	79.4	132.3	236.0	236.0	223.8	209.6	195.3	187.2	187.2
82.5°	71.2	71.2	59.0	83.4	160.8	154.6	146.5	142.5	134.3	130.2	130.2
85°	32.6	40.7	36.7	50.9	87.5	91.6	91.6	87.5	85.5	81.4	83.4
87.5°	10.2	18.3	22.4	28.5	44.7	46.8	48.8	48.8	48.8	50.9	50.9
90°	1.5	2.8	4.0	4.3	6.8	10.1	11.7	10.4	7.8	5.9	5.9
92.5°	6.2	16.6	27.2	29.8	41.9	58.0	66.0	57.8	41.6	29.3	28.2
95°	14.8	34.0	53.2	58.0	102.9	162.9	193.0	172.2	130.7	99.5	95.9
97.5°	25.6	42.6	59.4	63.7	138.7	238.7	288.8	275.7	249.4	229.7	223.0
100°	34.0	49.3	64.6	68.5	151.7	262.6	318.2	319.2	321.1	322.6	314.5
102.5°	41.0	55.4	69.7	73.2	157.7	270.3	326.6	343.3	376.7	401.8	394.9
105°	53.1	65.2	77.4	80.4	162.2	271.1	325.6	363.1	438.1	494.3	490.6
107.5°	65.4	76.7	88.0	90.9	162.9	259.0	307.1	359.4	464.0	542.5	543.4
110°	73.8	83.9	94.2	96.7	161.7	248.3	291.7	350.1	467.1	554.8	558.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	81.9	91.6	101.3	103.8	161.8	239.0	277.7	337.5	457.1	546.9	552.9
115°	94.2	103.2	112.2	114.4	163.2	228.3	260.8	318.5	433.8	520.3	528.5
117.5°	106.4	114.6	122.7	124.8	166.3	221.6	249.2	301.3	405.3	483.4	492.5
120°	113.5	121.2	128.9	130.8	168.8	219.4	244.6	292.1	387.2	458.5	467.3
122.5°	120.4	128.2	136.0	137.9	172.3	218.1	241.1	283.9	369.5	433.7	442.4
125°	131.1	138.2	145.2	147.0	177.1	217.2	237.2	273.6	346.3	400.9	408.9
127.5°	139.8	146.8	154.0	155.8	181.9	216.6	234.0	265.3	327.7	374.5	381.3
130°	144.4	152.1	159.7	161.6	185.3	217.0	232.8	260.6	316.2	357.8	364.1
132.5°	149.1	156.8	164.5	166.4	188.2	217.2	231.7	256.6	306.3	343.7	349.3
135°	156.2	163.2	170.2	172.0	191.3	217.0	229.8	250.7	292.4	323.6	328.4
137.5°	163.5	170.4	177.3	179.1	195.9	218.3	229.5	247.2	282.4	308.8	312.7
140°	169.5	175.9	182.3	183.9	198.7	218.5	228.5	243.7	274.1	296.9	300.6
142.5°	174.2	180.0	186.0	187.4	201.1	219.4	228.5	241.9	268.6	288.6	291.8
145°	181.3	186.4	191.5	192.8	204.2	219.4	226.9	237.9	259.7	276.1	278.5
147.5°	188.3	193.3	198.4	199.6	208.7	220.8	226.9	235.5	252.7	265.6	267.6
150°	193.0	197.5	202.0	203.1	211.1	221.6	226.9	234.2	248.7	259.6	261.2
152.5°	197.7	201.1	204.6	205.4	212.6	222.1	226.9	233.1	245.5	254.8	256.0
155°	204.8	207.4	209.9	210.5	216.0	223.3	226.9	231.8	241.7	249.1	249.9
157.5°	210.1	212.5	215.0	215.6	219.4	224.4	226.9	230.8	238.4	244.2	244.7
160°	213.6	215.5	217.4	217.9	220.9	224.9	226.9	230.2	236.8	241.7	242.0
162.5°	217.1	218.6	220.0	220.4	222.5	225.5	226.9	229.7	235.2	239.4	239.7
165°	221.1	222.4	223.7	224.0	225.0	226.3	226.9	228.9	232.8	235.9	236.2
167.5°	224.6	225.2	225.8	226.0	226.8	227.9	228.5	229.8	232.4	234.3	234.5
170°	226.9	227.5	228.2	228.3	228.4	228.5	228.5	229.8	232.4	234.3	234.3
172.5°	228.2	228.3	228.5	228.5	228.5	228.5	228.5	229.5	231.5	233.1	232.9
175°	229.8	229.8	229.8	229.8	229.4	228.8	228.5	229.1	230.4	231.4	231.4
177.5°	229.8	229.8	229.8	229.8	229.5	229.0	228.8	229.3	230.3	231.1	230.9
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2205.6	2199.5	2205.6	2201.6	2203.6	2197.5	2179.2	2173.1	2179.2	2185.3	2185.3
5°	2232.1	2228.0	2232.1	2232.1	2230.1	2226.0	2205.6	2201.6	2205.6	2207.7	2203.6
7.5°	2240.2	2234.1	2240.2	2236.2	2236.2	2232.1	2211.7	2207.7	2209.7	2215.8	2209.7
10°	2240.2	2234.1	2240.2	2238.2	2236.2	2232.1	2211.7	2203.6	2203.6	2209.7	2203.6
12.5°	2230.1	2226.0	2230.1	2226.0	2226.0	2221.9	2201.6	2193.4	2195.4	2197.5	2189.3
15°	2213.8	2207.7	2213.8	2209.7	2211.7	2205.6	2183.3	2175.1	2175.1	2179.2	2164.9
17.5°	2189.3	2181.2	2189.3	2187.3	2185.3	2181.2	2160.9	2152.7	2150.7	2152.7	2142.5
20°	2160.9	2154.8	2160.9	2158.8	2158.8	2150.7	2130.4	2120.2	2120.2	2120.2	2110.0
22.5°	2116.1	2110.0	2116.1	2120.2	2120.2	2118.1	2099.8	2085.5	2081.5	2081.5	2069.3
25°	2065.2	2059.1	2065.2	2065.2	2063.2	2065.2	2059.1	2051.0	2044.9	2038.8	2026.6
27.5°	2016.4	2012.3	2016.4	2012.3	2016.4	2010.3	2008.2	2006.2	1998.1	1992.0	1975.7
30°	1967.6	1963.5	1967.6	1963.5	1959.4	1955.3	1945.2	1941.1	1949.3	1945.2	1918.8
32.5°	1906.5	1902.4	1906.5	1906.5	1902.4	1902.4	1886.2	1880.0	1882.1	1894.3	1869.9
35°	1843.5	1837.4	1843.5	1841.4	1843.5	1837.4	1827.1	1825.1	1817.0	1831.2	1812.9
37.5°	1770.2	1764.1	1770.2	1770.2	1770.2	1774.2	1766.1	1760.0	1747.8	1766.1	1751.9
40°	1694.9	1686.8	1694.9	1692.8	1694.9	1699.0	1694.9	1690.8	1678.6	1692.8	1680.7
42.5°	1609.5	1607.5	1609.5	1611.5	1611.5	1619.6	1625.7	1617.6	1613.5	1603.4	1611.5
45°	1517.9	1513.8	1517.9	1522.0	1524.0	1528.1	1546.4	1546.4	1540.3	1524.0	1536.2
47.5°	1420.2	1410.0	1420.2	1432.4	1432.4	1438.5	1456.8	1471.1	1460.9	1440.6	1446.7
50°	1316.5	1318.5	1316.5	1324.6	1324.6	1347.0	1361.2	1375.5	1385.6	1361.2	1332.7
52.5°	1214.8	1212.7	1214.8	1220.8	1229.0	1239.2	1263.6	1277.8	1294.1	1279.8	1235.1
55°	1113.0	1117.0	1113.0	1115.0	1119.1	1125.2	1161.9	1176.0	1206.6	1188.3	1141.4
57.5°	1011.2	1005.2	1011.2	1015.3	1017.3	1023.5	1054.0	1080.5	1098.7	1100.8	1043.8
60°	893.2	885.1	893.2	911.5	915.6	919.7	948.2	972.6	988.8	995.0	935.9
62.5°	789.5	775.2	789.5	801.6	809.8	820.0	840.3	877.0	891.2	893.2	809.8
65°	679.6	673.5	679.6	704.0	706.0	718.3	740.7	767.1	797.6	793.6	673.5
67.5°	579.9	579.9	579.9	596.1	608.4	614.5	643.0	655.2	693.8	697.9	561.6
70°	488.3	486.3	488.3	500.5	508.7	522.9	549.4	563.6	594.1	604.3	455.8
72.5°	400.9	398.8	400.9	411.0	419.1	431.4	453.8	470.0	496.5	508.7	354.0
75°	323.6	319.5	323.6	331.6	329.6	345.9	364.2	380.5	404.9	413.0	262.5
77.5°	248.2	248.2	248.2	256.4	256.4	272.7	280.8	301.1	315.4	327.6	193.3
80°	185.2	183.1	185.2	187.2	187.2	195.3	209.6	223.8	236.0	236.0	132.3
82.5°	130.2	126.1	130.2	130.2	130.2	134.3	142.5	146.5	154.6	160.8	83.4
85°	81.4	81.4	81.4	83.4	81.4	85.5	87.5	91.6	91.6	87.5	50.9
87.5°	52.9	50.9	52.9	50.9	50.9	48.8	48.8	48.8	46.8	44.7	28.5
90°	5.9	5.9	5.9	5.9	5.9	7.8	10.4	11.7	10.1	6.8	4.3
92.5°	23.5	18.8	23.5	28.2	29.3	41.6	57.8	66.0	58.0	41.9	29.8
95°	81.9	67.7	81.9	95.9	99.5	130.7	172.2	193.0	162.9	102.9	58.0
97.5°	196.0	169.2	196.0	223.0	229.7	249.4	275.7	288.8	238.7	138.7	63.7
100°	282.5	250.5	282.5	314.5	322.6	321.1	319.2	318.2	262.6	151.7	68.5
102.5°	367.5	340.1	367.5	394.9	401.8	376.7	343.3	326.6	270.3	157.7	73.2
105°	475.9	461.2	475.9	490.6	494.3	438.1	363.1	325.6	271.1	162.2	80.4
107.5°	546.9	550.5	546.9	543.4	542.5	464.0	359.4	307.1	259.0	162.9	90.9
110°	574.0	589.4	574.0	558.6	554.8	467.1	350.1	291.7	248.3	161.7	96.7





TEST NUMBER: P934024

CATALOG NUMBER: SQ4-FA-025U-100D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	576.4	600.0	576.4	552.9	546.9	457.1	337.5	277.7	239.0	161.8	103.8
115°	561.2	593.8	561.2	528.5	520.3	433.8	318.5	260.8	228.3	163.2	114.4
117.5°	528.8	565.0	528.8	492.5	483.4	405.3	301.3	249.2	221.6	166.3	124.8
120°	502.6	537.8	502.6	467.3	458.5	387.2	292.1	244.6	219.4	168.8	130.8
122.5°	477.2	511.9	477.2	442.4	433.7	369.5	283.9	241.1	218.1	172.3	137.9
125°	440.9	472.9	440.9	408.9	400.9	346.3	273.6	237.2	217.2	177.1	147.0
127.5°	408.3	435.3	408.3	381.3	374.5	327.7	265.3	234.0	216.6	181.9	155.8
130°	389.0	414.0	389.0	364.1	357.8	316.2	260.6	232.8	217.0	185.3	161.6
132.5°	371.6	393.9	371.6	349.3	343.7	306.3	256.6	231.7	217.2	188.2	166.4
135°	347.7	366.9	347.7	328.4	323.6	292.4	250.7	229.8	217.0	191.3	172.0
137.5°	328.5	344.3	328.5	312.7	308.8	282.4	247.2	229.5	218.3	195.9	179.1
140°	315.3	330.1	315.3	300.6	296.9	274.1	243.7	228.5	218.5	198.7	183.9
142.5°	304.5	317.1	304.5	291.8	288.6	268.6	241.9	228.5	219.4	201.1	187.4
145°	288.1	297.7	288.1	278.5	276.1	259.7	237.9	226.9	219.4	204.2	192.8
147.5°	275.5	283.5	275.5	267.6	265.6	252.7	235.5	226.9	220.8	208.7	199.6
150°	267.7	274.1	267.7	261.2	259.6	248.7	234.2	226.9	221.6	211.1	203.1
152.5°	260.9	265.7	260.9	256.0	254.8	245.5	233.1	226.9	222.1	212.6	205.4
155°	253.1	256.3	253.1	249.9	249.1	241.7	231.8	226.9	223.3	216.0	210.5
157.5°	247.0	249.2	247.0	244.7	244.2	238.4	230.8	226.9	224.4	219.4	215.6
160°	243.3	244.6	243.3	242.0	241.7	236.8	230.2	226.9	224.9	220.9	217.9
162.5°	240.9	242.2	240.9	239.7	239.4	235.2	229.7	226.9	225.5	222.5	220.4
165°	237.5	238.8	237.5	236.2	235.9	232.8	228.9	226.9	226.3	225.0	224.0
167.5°	235.0	235.5	235.0	234.5	234.3	232.4	229.8	228.5	227.9	226.8	226.0
170°	234.3	234.3	234.3	234.3	234.3	232.4	229.8	228.5	228.5	228.4	228.3
172.5°	232.5	232.0	232.5	232.9	233.1	231.5	229.5	228.5	228.5	228.5	228.5
175°	231.4	231.4	231.4	231.4	231.4	230.4	229.1	228.5	228.8	229.4	229.8
177.5°	230.4	229.8	230.4	230.9	231.1	230.3	229.3	228.8	229.0	229.5	229.8
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P934024

CATALOG NUMBER: SQ4-FA-025U-100D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2181.2	2169.0	2169.0	2148.7	2140.5	2134.4	2124.2	2093.7	2085.5	2077.5	2089.6
5°	2199.5	2177.1	2160.9	2124.2	2093.7	2081.5	2042.8	1969.6	1920.8	1884.1	1863.8
7.5°	2203.6	2175.1	2144.6	2087.6	2014.3	1981.8	1863.8	1729.5	1692.8	1660.4	1639.9
10°	2199.5	2166.9	2124.2	2038.8	1865.8	1808.9	1690.8	1603.4	1581.0	1574.9	1581.0
12.5°	2185.3	2154.8	2095.7	1953.3	1711.2	1672.5	1603.4	1552.5	1548.4	1558.6	1613.5
15°	2160.9	2132.4	2063.2	1839.4	1625.7	1597.2	1548.4	1530.1	1552.5	1623.7	1788.5
17.5°	2136.4	2103.9	2018.4	1727.5	1560.6	1540.3	1505.7	1542.3	1668.4	1764.1	1819.0
20°	2103.9	2065.2	1967.6	1646.1	1513.8	1495.5	1479.2	1644.0	1739.7	1774.2	1804.8
22.5°	2065.2	2024.6	1898.4	1589.1	1465.0	1450.8	1460.9	1701.0	1739.7	1764.1	1790.6
25°	2014.3	1979.7	1817.0	1544.3	1426.3	1410.0	1448.7	1694.9	1717.3	1723.4	1776.3
27.5°	1967.6	1922.8	1731.5	1503.7	1379.5	1373.4	1458.9	1668.4	1684.8	1690.8	1747.8
30°	1910.6	1843.5	1635.9	1460.9	1330.7	1328.6	1460.9	1635.9	1631.9	1648.1	1705.1
32.5°	1851.6	1725.4	1528.1	1408.0	1283.9	1281.9	1446.7	1587.0	1583.0	1605.4	1648.1
35°	1796.6	1633.9	1381.5	1347.0	1224.9	1226.9	1412.1	1530.1	1532.1	1552.5	1579.0
37.5°	1739.7	1554.5	1220.8	1279.8	1167.9	1167.9	1365.3	1477.2	1473.2	1479.2	1515.8
40°	1672.5	1430.4	1078.4	1192.3	1115.0	1108.9	1308.3	1420.2	1405.9	1403.9	1454.8
42.5°	1601.3	1294.1	972.6	1076.4	1054.0	1045.8	1239.2	1351.0	1324.6	1330.7	1395.8
45°	1524.0	1257.4	891.2	909.5	990.9	984.8	1163.9	1271.7	1253.4	1269.7	1336.8
47.5°	1446.7	1184.2	864.8	754.9	923.8	921.7	1080.5	1194.3	1184.2	1200.5	1271.7
50°	1340.9	1102.8	862.7	647.0	848.5	856.6	980.7	1119.1	1119.1	1133.4	1208.6
52.5°	1204.5	1003.1	783.4	586.0	761.0	785.4	893.2	1054.0	1058.1	1072.3	1139.4
55°	1080.5	899.4	726.4	539.2	657.2	710.1	807.8	986.8	995.0	1009.2	1070.2
57.5°	966.5	748.7	714.2	484.3	561.6	612.5	732.5	921.7	925.8	938.0	997.0
60°	844.4	541.2	655.2	425.3	478.2	516.8	663.3	844.4	858.6	866.8	917.7
62.5°	706.0	392.7	594.1	384.5	437.4	445.6	606.4	771.2	789.5	795.6	826.1
65°	502.6	329.6	504.6	350.0	394.7	396.8	545.3	695.8	712.2	722.3	744.7
67.5°	339.8	268.6	384.5	317.4	362.2	364.2	486.3	608.4	630.8	638.9	653.1
70°	236.0	179.0	284.8	282.8	325.6	329.6	423.2	529.0	549.4	555.5	563.6
72.5°	172.9	144.5	236.0	254.3	286.9	291.0	358.1	439.5	459.8	465.9	470.0
75°	132.3	152.6	191.3	221.8	244.2	246.2	293.0	358.1	372.4	376.5	378.5
77.5°	105.8	142.5	140.4	179.0	199.4	195.3	229.9	276.7	288.9	288.9	288.9
80°	79.4	111.9	105.8	128.2	146.5	142.5	164.8	197.4	201.4	205.5	203.4
82.5°	59.0	71.2	71.2	81.4	97.6	93.6	109.9	128.2	128.2	128.2	132.3
85°	36.7	40.7	32.6	42.7	54.9	52.9	61.1	69.1	71.2	71.2	67.1
87.5°	22.4	18.3	10.2	16.2	24.4	24.4	28.5	30.5	28.5	28.5	28.5
90°	4.0	2.8	1.5	2.8	4.0	4.3	6.8	10.1	11.7	10.4	7.8
92.5°	27.2	16.6	6.2	16.6	27.2	29.8	41.9	58.0	66.0	57.8	41.6
95°	53.2	34.0	14.8	34.0	53.2	58.0	102.9	162.9	193.0	172.2	130.7
97.5°	59.4	42.6	25.6	42.6	59.4	63.7	138.7	238.7	288.8	275.7	249.4
100°	64.6	49.3	34.0	49.3	64.6	68.5	151.7	262.6	318.2	319.2	321.1
102.5°	69.7	55.4	41.0	55.4	69.7	73.2	157.7	270.3	326.6	343.3	376.7
105°	77.4	65.2	53.1	65.2	77.4	80.4	162.2	271.1	325.6	363.1	438.1
107.5°	88.0	76.7	65.4	76.7	88.0	90.9	162.9	259.0	307.1	359.4	464.0
110°	94.2	83.9	73.8	83.9	94.2	96.7	161.7	248.3	291.7	350.1	467.1



TEST NUMBER: P934024

CATALOG NUMBER: SQ4-FA-025U-100D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	101.3	91.6	81.9	91.6	101.3	103.8	161.8	239.0	277.7	337.5	457.1
115°	112.2	103.2	94.2	103.2	112.2	114.4	163.2	228.3	260.8	318.5	433.8
117.5°	122.7	114.6	106.4	114.6	122.7	124.8	166.3	221.6	249.2	301.3	405.3
120°	128.9	121.2	113.5	121.2	128.9	130.8	168.8	219.4	244.6	292.1	387.2
122.5°	136.0	128.2	120.4	128.2	136.0	137.9	172.3	218.1	241.1	283.9	369.5
125°	145.2	138.2	131.1	138.2	145.2	147.0	177.1	217.2	237.2	273.6	346.3
127.5°	154.0	146.8	139.8	146.8	154.0	155.8	181.9	216.6	234.0	265.3	327.7
130°	159.7	152.1	144.4	152.1	159.7	161.6	185.3	217.0	232.8	260.6	316.2
132.5°	164.5	156.8	149.1	156.8	164.5	166.4	188.2	217.2	231.7	256.6	306.3
135°	170.2	163.2	156.2	163.2	170.2	172.0	191.3	217.0	229.8	250.7	292.4
137.5°	177.3	170.4	163.5	170.4	177.3	179.1	195.9	218.3	229.5	247.2	282.4
140°	182.3	175.9	169.5	175.9	182.3	183.9	198.7	218.5	228.5	243.7	274.1
142.5°	186.0	180.0	174.2	180.0	186.0	187.4	201.1	219.4	228.5	241.9	268.6
145°	191.5	186.4	181.3	186.4	191.5	192.8	204.2	219.4	226.9	237.9	259.7
147.5°	198.4	193.3	188.3	193.3	198.4	199.6	208.7	220.8	226.9	235.5	252.7
150°	202.0	197.5	193.0	197.5	202.0	203.1	211.1	221.6	226.9	234.2	248.7
152.5°	204.6	201.1	197.7	201.1	204.6	205.4	212.6	222.1	226.9	233.1	245.5
155°	209.9	207.4	204.8	207.4	209.9	210.5	216.0	223.3	226.9	231.8	241.7
157.5°	215.0	212.5	210.1	212.5	215.0	215.6	219.4	224.4	226.9	230.8	238.4
160°	217.4	215.5	213.6	215.5	217.4	217.9	220.9	224.9	226.9	230.2	236.8
162.5°	220.0	218.6	217.1	218.6	220.0	220.4	222.5	225.5	226.9	229.7	235.2
165°	223.7	222.4	221.1	222.4	223.7	224.0	225.0	226.3	226.9	228.9	232.8
167.5°	225.8	225.2	224.6	225.2	225.8	226.0	226.8	227.9	228.5	229.8	232.4
170°	228.2	227.5	226.9	227.5	228.2	228.3	228.4	228.5	228.5	229.8	232.4
172.5°	228.5	228.3	228.2	228.3	228.5	228.5	228.5	228.5	228.5	229.5	231.5
175°	229.8	229.8	229.8	229.8	229.8	229.8	229.4	228.8	228.5	229.1	230.4
177.5°	229.8	229.8	229.8	229.8	229.8	229.8	229.5	229.0	228.8	229.3	230.3
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P934024

CATALOG NUMBER: SQ4-FA-025U-100D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2075.4	2069.3	2077.5	2055.1	2077.5	2069.3	2075.4	2089.6	2077.5	2085.5	2093.7
5°	1821.0	1810.9	1778.3	1751.9	1778.3	1810.9	1821.0	1863.8	1884.1	1920.8	1969.6
7.5°	1627.8	1619.6	1611.5	1595.2	1611.5	1619.6	1627.8	1639.9	1660.4	1692.8	1729.5
10°	1585.0	1587.0	1599.3	1597.2	1599.3	1587.0	1585.0	1581.0	1574.9	1581.0	1603.4
12.5°	1694.9	1713.2	1780.4	1776.3	1780.4	1713.2	1694.9	1613.5	1558.6	1548.4	1552.5
15°	1821.0	1827.1	1841.4	1843.5	1841.4	1827.1	1821.0	1788.5	1623.7	1552.5	1530.1
17.5°	1833.3	1835.3	1845.5	1845.5	1845.5	1835.3	1833.3	1819.0	1764.1	1668.4	1542.3
20°	1823.1	1827.1	1847.5	1851.6	1847.5	1827.1	1823.1	1804.8	1774.2	1739.7	1644.0
22.5°	1819.0	1827.1	1843.5	1841.4	1843.5	1827.1	1819.0	1790.6	1764.1	1739.7	1701.0
25°	1798.6	1798.6	1800.7	1802.7	1800.7	1798.6	1798.6	1776.3	1723.4	1717.3	1694.9
27.5°	1756.0	1760.0	1772.2	1770.2	1772.2	1760.0	1756.0	1747.8	1690.8	1684.8	1668.4
30°	1717.3	1713.2	1703.0	1694.9	1703.0	1713.2	1717.3	1705.1	1648.1	1631.9	1635.9
32.5°	1652.2	1642.0	1631.9	1625.7	1631.9	1642.0	1652.2	1648.1	1605.4	1583.0	1587.0
35°	1574.9	1576.9	1574.9	1568.7	1574.9	1576.9	1574.9	1579.0	1552.5	1532.1	1530.1
37.5°	1519.9	1524.0	1522.0	1513.8	1522.0	1524.0	1519.9	1515.8	1479.2	1473.2	1477.2
40°	1462.9	1465.0	1462.9	1456.8	1462.9	1465.0	1462.9	1454.8	1403.9	1405.9	1420.2
42.5°	1408.0	1405.9	1399.9	1395.8	1399.9	1405.9	1408.0	1395.8	1330.7	1324.6	1351.0
45°	1345.0	1347.0	1334.8	1328.6	1334.8	1347.0	1345.0	1336.8	1269.7	1253.4	1271.7
47.5°	1281.9	1281.9	1271.7	1265.6	1271.7	1281.9	1281.9	1271.7	1200.5	1184.2	1194.3
50°	1214.8	1212.7	1198.4	1196.4	1198.4	1212.7	1214.8	1208.6	1133.4	1119.1	1119.1
52.5°	1137.4	1137.4	1139.4	1143.5	1139.4	1137.4	1137.4	1139.4	1072.3	1058.1	1054.0
55°	1070.2	1072.3	1086.5	1090.6	1086.5	1072.3	1070.2	1070.2	1009.2	995.0	986.8
57.5°	1001.1	1001.1	1011.2	1011.2	1011.2	1001.1	1001.1	997.0	938.0	925.8	921.7
60°	921.7	925.8	933.9	931.9	933.9	925.8	921.7	917.7	866.8	858.6	844.4
62.5°	838.3	842.4	844.4	840.3	844.4	842.4	838.3	826.1	795.6	789.5	771.2
65°	750.8	754.9	756.9	752.8	756.9	754.9	750.8	744.7	722.3	712.2	695.8
67.5°	661.3	659.3	657.2	665.4	657.2	659.3	661.3	653.1	638.9	630.8	608.4
70°	569.7	569.7	567.6	571.7	567.6	569.7	569.7	563.6	555.5	549.4	529.0
72.5°	472.1	470.0	478.2	472.1	478.2	470.0	472.1	470.0	465.9	459.8	439.5
75°	376.5	380.5	376.5	382.5	376.5	380.5	376.5	378.5	376.5	372.4	358.1
77.5°	286.9	291.0	286.9	286.9	286.9	291.0	286.9	288.9	288.9	288.9	276.7
80°	203.4	201.4	201.4	199.4	201.4	201.4	203.4	203.4	205.5	201.4	197.4
82.5°	130.2	128.2	128.2	132.3	128.2	128.2	130.2	132.3	128.2	128.2	128.2
85°	71.2	73.2	69.1	69.1	69.1	73.2	71.2	67.1	71.2	71.2	69.1
87.5°	26.5	24.4	24.4	24.4	24.4	24.4	26.5	28.5	28.5	28.5	30.5
90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	10.4	11.7	10.1
92.5°	29.3	28.2	23.5	18.8	23.5	28.2	29.3	41.6	57.8	66.0	58.0
95°	99.5	95.9	81.9	67.7	81.9	95.9	99.5	130.7	172.2	193.0	162.9
97.5°	229.7	223.0	196.0	169.2	196.0	223.0	229.7	249.4	275.7	288.8	238.7
100°	322.6	314.5	282.5	250.5	282.5	314.5	322.6	321.1	319.2	318.2	262.6
102.5°	401.8	394.9	367.5	340.1	367.5	394.9	401.8	376.7	343.3	326.6	270.3
105°	494.3	490.6	475.9	461.2	475.9	490.6	494.3	438.1	363.1	325.6	271.1
107.5°	542.5	543.4	546.9	550.5	546.9	543.4	542.5	464.0	359.4	307.1	259.0
110°	554.8	558.6	574.0	589.4	574.0	558.6	554.8	467.1	350.1	291.7	248.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	546.9	552.9	576.4	600.0	576.4	552.9	546.9	457.1	337.5	277.7	239.0
115°	520.3	528.5	561.2	593.8	561.2	528.5	520.3	433.8	318.5	260.8	228.3
117.5°	483.4	492.5	528.8	565.0	528.8	492.5	483.4	405.3	301.3	249.2	221.6
120°	458.5	467.3	502.6	537.8	502.6	467.3	458.5	387.2	292.1	244.6	219.4
122.5°	433.7	442.4	477.2	511.9	477.2	442.4	433.7	369.5	283.9	241.1	218.1
125°	400.9	408.9	440.9	472.9	440.9	408.9	400.9	346.3	273.6	237.2	217.2
127.5°	374.5	381.3	408.3	435.3	408.3	381.3	374.5	327.7	265.3	234.0	216.6
130°	357.8	364.1	389.0	414.0	389.0	364.1	357.8	316.2	260.6	232.8	217.0
132.5°	343.7	349.3	371.6	393.9	371.6	349.3	343.7	306.3	256.6	231.7	217.2
135°	323.6	328.4	347.7	366.9	347.7	328.4	323.6	292.4	250.7	229.8	217.0
137.5°	308.8	312.7	328.5	344.3	328.5	312.7	308.8	282.4	247.2	229.5	218.3
140°	296.9	300.6	315.3	330.1	315.3	300.6	296.9	274.1	243.7	228.5	218.5
142.5°	288.6	291.8	304.5	317.1	304.5	291.8	288.6	268.6	241.9	228.5	219.4
145°	276.1	278.5	288.1	297.7	288.1	278.5	276.1	259.7	237.9	226.9	219.4
147.5°	265.6	267.6	275.5	283.5	275.5	267.6	265.6	252.7	235.5	226.9	220.8
150°	259.6	261.2	267.7	274.1	267.7	261.2	259.6	248.7	234.2	226.9	221.6
152.5°	254.8	256.0	260.9	265.7	260.9	256.0	254.8	245.5	233.1	226.9	222.1
155°	249.1	249.9	253.1	256.3	253.1	249.9	249.1	241.7	231.8	226.9	223.3
157.5°	244.2	244.7	247.0	249.2	247.0	244.7	244.2	238.4	230.8	226.9	224.4
160°	241.7	242.0	243.3	244.6	243.3	242.0	241.7	236.8	230.2	226.9	224.9
162.5°	239.4	239.7	240.9	242.2	240.9	239.7	239.4	235.2	229.7	226.9	225.5
165°	235.9	236.2	237.5	238.8	237.5	236.2	235.9	232.8	228.9	226.9	226.3
167.5°	234.3	234.5	235.0	235.5	235.0	234.5	234.3	232.4	229.8	228.5	227.9
170°	234.3	234.3	234.3	234.3	234.3	234.3	234.3	232.4	229.8	228.5	228.5
172.5°	233.1	232.9	232.5	232.0	232.5	232.9	233.1	231.5	229.5	228.5	228.5
175°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	230.4	229.1	228.5	228.8
177.5°	231.1	230.9	230.4	229.8	230.4	230.9	231.1	230.3	229.3	228.8	229.0
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2124.2	2134.4	2140.5	2148.7	2169.0
5°	2042.8	2081.5	2093.7	2124.2	2160.9
7.5°	1863.8	1981.8	2014.3	2087.6	2144.6
10°	1690.8	1808.9	1865.8	2038.8	2124.2
12.5°	1603.4	1672.5	1711.2	1953.3	2095.7
15°	1548.4	1597.2	1625.7	1839.4	2063.2
17.5°	1505.7	1540.3	1560.6	1727.5	2018.4
20°	1479.2	1495.5	1513.8	1646.1	1967.6
22.5°	1460.9	1450.8	1465.0	1589.1	1898.4
25°	1448.7	1410.0	1426.3	1544.3	1817.0
27.5°	1458.9	1373.4	1379.5	1503.7	1731.5
30°	1460.9	1328.6	1330.7	1460.9	1635.9
32.5°	1446.7	1281.9	1283.9	1408.0	1528.1
35°	1412.1	1226.9	1224.9	1347.0	1381.5
37.5°	1365.3	1167.9	1167.9	1279.8	1220.8
40°	1308.3	1108.9	1115.0	1192.3	1078.4
42.5°	1239.2	1045.8	1054.0	1076.4	972.6
45°	1163.9	984.8	990.9	909.5	891.2
47.5°	1080.5	921.7	923.8	754.9	864.8
50°	980.7	856.6	848.5	647.0	862.7
52.5°	893.2	785.4	761.0	586.0	783.4
55°	807.8	710.1	657.2	539.2	726.4
57.5°	732.5	612.5	561.6	484.3	714.2
60°	663.3	516.8	478.2	425.3	655.2
62.5°	606.4	445.6	437.4	384.5	594.1
65°	545.3	396.8	394.7	350.0	504.6
67.5°	486.3	364.2	362.2	317.4	384.5
70°	423.2	329.6	325.6	282.8	284.8
72.5°	358.1	291.0	286.9	254.3	236.0
75°	293.0	246.2	244.2	221.8	191.3
77.5°	229.9	195.3	199.4	179.0	140.4
80°	164.8	142.5	146.5	128.2	105.8
82.5°	109.9	93.6	97.6	81.4	71.2
85°	61.1	52.9	54.9	42.7	32.6
87.5°	28.5	24.4	24.4	16.2	10.2
90°	6.8	4.3	4.0	2.8	1.5
92.5°	41.9	29.8	27.2	16.6	6.2
95°	102.9	58.0	53.2	34.0	14.8
97.5°	138.7	63.7	59.4	42.6	25.6
100°	151.7	68.5	64.6	49.3	34.0
102.5°	157.7	73.2	69.7	55.4	41.0
105°	162.2	80.4	77.4	65.2	53.1
107.5°	162.9	90.9	88.0	76.7	65.4
110°	161.7	96.7	94.2	83.9	73.8



TEST NUMBER: P934024

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	161.8	103.8	101.3	91.6	81.9
115°	163.2	114.4	112.2	103.2	94.2
117.5°	166.3	124.8	122.7	114.6	106.4
120°	168.8	130.8	128.9	121.2	113.5
122.5°	172.3	137.9	136.0	128.2	120.4
125°	177.1	147.0	145.2	138.2	131.1
127.5°	181.9	155.8	154.0	146.8	139.8
130°	185.3	161.6	159.7	152.1	144.4
132.5°	188.2	166.4	164.5	156.8	149.1
135°	191.3	172.0	170.2	163.2	156.2
137.5°	195.9	179.1	177.3	170.4	163.5
140°	198.7	183.9	182.3	175.9	169.5
142.5°	201.1	187.4	186.0	180.0	174.2
145°	204.2	192.8	191.5	186.4	181.3
147.5°	208.7	199.6	198.4	193.3	188.3
150°	211.1	203.1	202.0	197.5	193.0
152.5°	212.6	205.4	204.6	201.1	197.7
155°	216.0	210.5	209.9	207.4	204.8
157.5°	219.4	215.6	215.0	212.5	210.1
160°	220.9	217.9	217.4	215.5	213.6
162.5°	222.5	220.4	220.0	218.6	217.1
165°	225.0	224.0	223.7	222.4	221.1
167.5°	226.8	226.0	225.8	225.2	224.6
170°	228.4	228.3	228.2	227.5	226.9
172.5°	228.5	228.5	228.5	228.3	228.2
175°	229.4	229.8	229.8	229.8	229.8
177.5°	229.5	229.8	229.8	229.8	229.8
180°	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P934024  
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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	15.13	16.33	15.80	17.01	17.80	17.97	19.17	18.63	19.85	20.64
	3H	15.64	16.71	16.31	17.40	18.22	19.34	20.42	20.02	21.11	21.93
	4H	15.84	16.86	16.54	17.56	18.39	19.81	20.82	20.50	21.52	22.36
	6H	15.98	16.92	16.69	17.63	18.48	20.11	21.05	20.82	21.76	22.61
	8H	15.99	16.88	16.71	17.61	18.47	20.19	21.09	20.91	21.82	22.67
	12H	15.97	16.82	16.70	17.55	18.43	20.25	21.10	20.97	21.82	22.70
4H	2H	16.21	17.22	16.91	17.92	18.76	18.42	19.44	19.12	20.14	20.97
	3H	17.27	18.11	17.98	18.85	19.70	19.96	20.81	20.67	21.54	22.40
	4H	17.56	18.32	18.28	19.06	19.95	20.50	21.27	21.23	22.01	22.89
	6H	17.70	18.37	18.45	19.13	20.02	20.89	21.56	21.64	22.32	23.21
	8H	17.71	18.34	18.46	19.10	20.00	21.01	21.63	21.76	22.39	23.29
	12H	17.70	18.26	18.47	19.04	19.95	21.08	21.64	21.85	22.42	23.33
8H	4H	18.04	18.66	18.79	19.42	20.33	20.65	21.28	21.41	22.04	22.94
	6H	18.31	18.83	19.09	19.63	20.54	21.11	21.62	21.89	22.43	23.33
	8H	18.36	18.82	19.15	19.62	20.54	21.26	21.72	22.06	22.53	23.45
	12H	18.36	18.76	19.15	19.56	20.54	21.38	21.78	22.17	22.58	23.56
12H	4H	18.06	18.62	18.83	19.40	20.31	20.63	21.19	21.41	21.98	22.89
	6H	18.38	18.84	19.17	19.64	20.56	21.11	21.57	21.90	22.37	23.29
	8H	18.46	18.87	19.25	19.66	20.64	21.28	21.69	22.08	22.48	23.46