

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: P934616

Luminaire Tested: SQ4-FA-075U-050D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934616
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

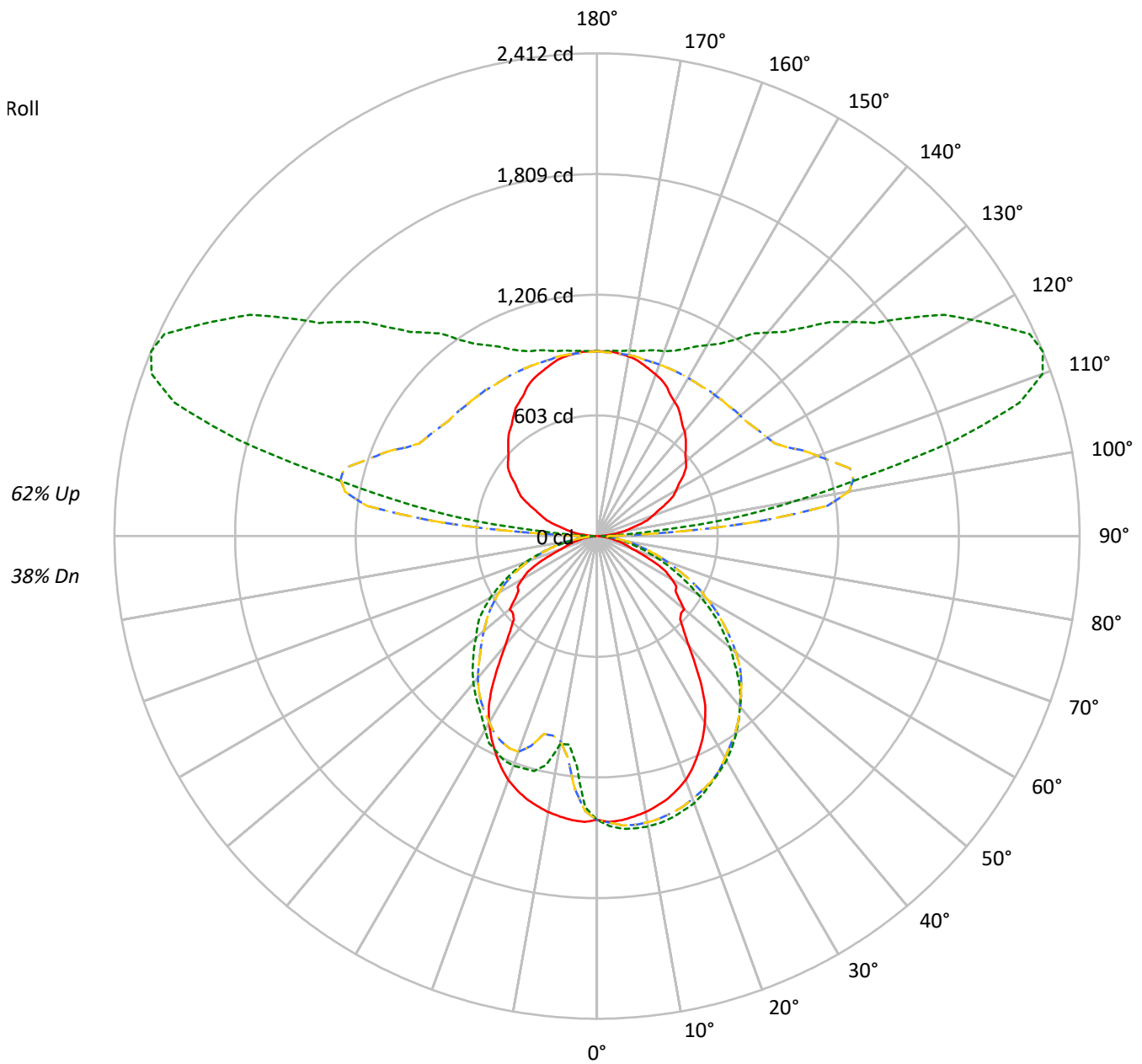
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9668.0 lumens
Efficiency: N/A
Efficacy: 140.5 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): 68.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6627	6640	6627	5221
10°	6583	6541	6583	4676
15°	6511	6399	6511	5343
20°	6375	6231	6375	5355
25°	6096	5986	6096	5241
30°	5736	5783	5736	4992
35°	5113	5526	5113	4718
40°	4261	5223	4261	4511
45°	3807	4869	3807	4274
50°	4045	4447	4045	4035
55°	3805	3991	3805	3896
60°	3923	3390	3923	3569
65°	3556	2802	3556	3132
70°	2463	2233	2463	2625
75°	2160	1651	2160	1977
80°	1739	1091	1739	1188
85°	1001	579	1001	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.3
10°-20°	363.4	3.8
20°-30°	561.7	5.8
30°-40°	670.5	6.9
40°-50°	674.5	7.0
50°-60°	586.9	6.1
60°-70°	416.1	4.3
70°-80°	220.1	2.3
80°-90°	58.4	0.6
90°-100°	450.3	4.7
100°-110°	1183.8	12.2
110°-120°	1227.5	12.7
120°-130°	984.6	10.2
130°-140°	772.6	8.0
140°-150°	593.0	6.1
150°-160°	427.0	4.4
160°-170°	261.3	2.7
170°-180°	88.3	0.9
0°-30°	1053.0	10.9
0°-40°	1723.6	17.8
0°-60°	2984.9	30.9
0°-90°	3679.5	38.1
90°-120°	2861.7	29.6
90°-150°	5211.9	53.9
90°-180°	5988.0	61.9
0°-180°	9668.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1424	1469	1424	1155	1424	135
15°	1360	1455	1360	1215	1360	383
25°	1198	1357	1198	1188	1198	550
35°	911	1211	911	1034	911	563
45°	588	998	588	876	588	471
55°	479	736	479	719	479	440
65°	333	444	333	496	333	318
75°	126	211	126	252	126	133
85°	22	54	22	46	22	29
90°	6	24	6	24	6	6
95°	60	272	60	272	60	66
105°	213	1854	213	1854	213	226
115°	379	2387	379	2387	379	374
125°	527	1901	527	1901	527	468
135°	628	1475	628	1475	628	486
145°	728	1197	728	1197	728	456
155°	823	1030	823	1030	823	378
165°	888	960	888	960	888	251
175°	924	930	924	930	924	88
180°	924	924	924	924	924	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1429.8	1429.8	1437.9	1440.6	1440.6	1436.5	1432.5	1436.5	1448.6	1452.6	1451.3
5°	1424.5	1435.2	1450.0	1452.6	1455.3	1454.0	1451.3	1454.0	1467.4	1470.1	1471.4
7.5°	1413.7	1433.9	1452.6	1456.7	1460.7	1456.7	1455.3	1458.0	1471.4	1474.1	1474.1
10°	1400.3	1428.5	1450.0	1452.6	1456.7	1452.6	1452.6	1458.0	1471.4	1474.1	1475.4
12.5°	1381.5	1420.4	1440.6	1443.2	1448.6	1447.3	1445.9	1451.3	1464.7	1467.4	1467.4
15°	1360.1	1405.7	1424.5	1427.1	1436.5	1433.9	1433.9	1439.2	1454.0	1458.0	1456.7
17.5°	1330.6	1386.9	1408.4	1412.4	1419.1	1417.8	1419.1	1424.5	1437.9	1440.6	1441.9
20°	1297.0	1361.4	1386.9	1390.9	1397.6	1397.6	1397.6	1404.3	1417.8	1423.1	1423.1
22.5°	1251.4	1334.6	1361.4	1364.1	1372.2	1372.2	1374.8	1384.2	1396.3	1397.6	1397.6
25°	1197.8	1305.1	1327.9	1335.9	1344.0	1348.0	1352.0	1357.4	1361.4	1360.1	1361.4
27.5°	1141.5	1267.5	1297.0	1302.4	1313.1	1317.2	1322.5	1323.9	1325.2	1329.2	1326.6
30°	1078.4	1215.2	1259.5	1264.9	1282.3	1285.0	1279.6	1282.3	1289.0	1291.7	1294.4
32.5°	1007.3	1137.4	1220.6	1232.7	1248.8	1240.7	1239.4	1243.4	1254.1	1254.1	1256.8
35°	910.7	1077.1	1184.4	1195.1	1207.2	1197.8	1203.2	1204.5	1211.2	1215.2	1213.9
37.5°	804.8	1024.8	1146.8	1154.9	1164.3	1152.2	1160.2	1164.3	1169.6	1166.9	1166.9
40°	710.9	942.9	1102.6	1107.9	1116.0	1106.6	1114.6	1117.3	1120.0	1117.3	1116.0
42.5°	641.1	853.1	1055.6	1062.3	1056.9	1063.7	1066.3	1071.7	1067.7	1062.3	1062.3
45°	587.5	828.9	1004.6	1012.7	1004.6	1015.4	1019.4	1019.4	1007.3	1004.6	1003.3
47.5°	570.1	780.6	953.7	953.7	949.6	963.1	969.8	960.4	948.3	944.3	944.3
50°	568.7	727.0	883.9	878.6	897.3	913.4	906.7	897.3	887.9	873.2	873.2
52.5°	516.4	661.3	794.1	814.2	843.7	853.1	842.3	833.0	816.9	810.1	804.8
55°	478.8	592.9	712.2	752.5	783.3	795.4	775.3	765.9	741.7	737.7	735.0
57.5°	470.8	493.6	637.1	688.1	725.6	724.3	712.2	694.8	674.7	670.7	669.3
60°	431.9	356.8	556.6	617.0	655.9	651.9	641.1	625.0	606.3	603.6	600.9
62.5°	391.7	258.9	465.4	533.8	588.8	587.5	578.1	554.0	540.5	533.8	528.5
65°	332.6	217.3	331.3	444.0	523.1	525.8	505.7	488.2	473.5	465.4	464.1
67.5°	253.5	177.1	224.0	370.2	460.1	457.4	431.9	423.9	405.1	401.1	393.0
70°	187.8	118.0	155.6	300.5	398.4	391.7	371.5	362.2	344.7	335.3	330.0
72.5°	155.6	95.2	114.0	233.4	335.3	327.3	309.8	299.1	284.4	276.3	270.9
75°	126.1	100.6	87.2	173.0	272.3	266.9	250.8	240.1	228.0	217.3	218.6
77.5°	92.6	93.9	69.7	127.4	216.0	207.9	198.5	185.1	179.7	169.0	169.0
80°	69.7	73.8	52.3	87.2	155.6	155.6	147.5	138.2	128.8	123.4	123.4
82.5°	46.9	46.9	38.9	55.0	106.0	101.9	96.6	93.9	88.5	85.8	85.8
85°	21.5	26.8	24.1	33.5	57.7	60.4	60.4	57.7	56.3	53.7	55.0
87.5°	6.7	12.1	14.8	18.8	29.5	30.9	32.2	32.2	32.2	33.5	33.5
90°	6.2	11.2	16.2	17.4	27.3	40.5	47.1	41.9	31.4	23.6	23.6
92.5°	24.8	67.0	109.2	119.7	168.3	233.0	265.4	232.6	167.0	117.8	113.1
95°	59.5	136.7	213.8	233.1	413.9	655.0	775.6	692.1	525.1	399.9	385.7
97.5°	102.9	171.0	239.1	256.1	557.6	959.6	1160.6	1107.8	1002.3	923.2	896.2
100°	136.4	198.1	259.9	275.3	609.9	1056.0	1279.0	1282.9	1290.6	1296.4	1264.2
102.5°	164.9	222.5	280.1	294.5	633.8	1086.3	1312.5	1379.7	1514.2	1615.1	1587.5
105°	213.3	262.1	310.8	323.0	651.6	1089.7	1308.8	1459.5	1760.9	1987.0	1972.2
107.5°	262.9	308.4	353.8	365.2	654.9	1041.2	1234.4	1444.6	1865.1	2180.5	2184.1
110°	296.4	337.4	378.4	388.7	649.9	998.2	1172.4	1407.4	1877.5	2230.1	2245.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	329.2	368.3	407.4	417.2	650.1	960.7	1116.0	1356.6	1837.7	2198.5	2222.2
115°	378.8	414.9	451.0	460.0	656.1	917.6	1048.4	1280.1	1743.6	2091.2	2124.1
117.5°	427.8	460.6	493.4	501.6	668.4	890.7	1001.9	1211.0	1629.3	1943.0	1979.4
120°	456.3	487.1	518.0	525.7	678.2	881.6	983.3	1174.4	1556.6	1843.2	1878.6
122.5°	484.2	515.4	546.5	554.3	692.5	876.8	969.0	1141.1	1485.3	1743.4	1778.3
125°	527.0	555.4	583.7	590.8	711.7	872.9	953.5	1099.7	1392.0	1611.3	1643.5
127.5°	561.7	590.4	619.0	626.2	731.0	870.7	940.5	1066.0	1317.0	1505.3	1532.4
130°	580.3	611.1	642.0	649.7	745.0	872.1	935.6	1047.3	1270.8	1438.4	1463.5
132.5°	599.5	630.4	661.3	669.0	756.4	872.9	931.2	1031.2	1231.3	1381.3	1403.8
135°	628.0	656.1	684.3	691.3	768.8	872.1	923.8	1007.6	1175.1	1300.7	1320.1
137.5°	657.2	685.0	712.8	719.8	787.4	877.5	922.5	993.3	1135.0	1241.2	1257.0
140°	681.4	707.0	732.6	739.0	798.7	878.4	918.2	979.4	1101.7	1193.5	1208.3
142.5°	700.0	723.7	747.4	753.3	808.3	881.6	918.2	971.9	1079.4	1160.0	1172.7
145°	728.5	749.2	769.8	775.0	820.7	881.6	912.0	956.0	1043.9	1109.8	1119.4
147.5°	757.0	777.1	797.3	802.3	838.9	887.6	912.0	946.6	1015.7	1067.6	1075.6
150°	775.6	793.8	812.0	816.5	848.3	890.8	912.0	941.2	999.6	1043.4	1049.9
152.5°	794.8	808.6	822.4	825.8	854.5	892.8	912.0	936.9	986.8	1024.2	1029.1
155°	823.3	833.5	843.7	846.3	868.2	897.4	912.0	931.8	971.5	1001.3	1004.5
157.5°	844.4	854.3	864.2	866.7	881.8	901.9	912.0	927.4	958.3	981.4	983.7
160°	858.7	866.4	874.1	876.0	888.0	904.0	912.0	925.2	951.7	971.5	972.8
162.5°	872.9	878.7	884.5	886.0	894.7	906.2	912.0	923.2	945.5	962.2	963.4
165°	888.4	893.6	898.9	900.2	904.1	909.4	912.0	920.0	936.0	948.0	949.3
167.5°	902.7	905.2	907.7	908.3	911.6	916.0	918.2	923.4	933.9	941.8	942.3
170°	912.0	914.5	917.0	917.6	917.8	918.1	918.2	923.4	933.9	941.8	941.8
172.5°	917.0	917.5	918.1	918.2	918.2	918.2	918.2	922.3	930.6	936.8	936.3
175°	923.8	923.8	923.8	923.8	921.9	919.4	918.2	920.8	926.1	930.0	930.0
177.5°	923.8	923.8	923.8	923.8	922.3	920.4	919.4	921.5	925.6	928.7	928.2
180°	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1454.0	1450.0	1454.0	1451.3	1452.6	1448.6	1436.5	1432.5	1436.5	1440.6	1440.6
5°	1471.4	1468.7	1471.4	1471.4	1470.1	1467.4	1454.0	1451.3	1454.0	1455.3	1452.6
7.5°	1476.8	1472.8	1476.8	1474.1	1474.1	1471.4	1458.0	1455.3	1456.7	1460.7	1456.7
10°	1476.8	1472.8	1476.8	1475.4	1474.1	1471.4	1458.0	1452.6	1452.6	1456.7	1452.6
12.5°	1470.1	1467.4	1470.1	1467.4	1467.4	1464.7	1451.3	1445.9	1447.3	1448.6	1443.2
15°	1459.3	1455.3	1459.3	1456.7	1458.0	1454.0	1439.2	1433.9	1433.9	1436.5	1427.1
17.5°	1443.2	1437.9	1443.2	1441.9	1440.6	1437.9	1424.5	1419.1	1417.8	1419.1	1412.4
20°	1424.5	1420.4	1424.5	1423.1	1423.1	1417.8	1404.3	1397.6	1397.6	1397.6	1390.9
22.5°	1395.0	1390.9	1395.0	1397.6	1397.6	1396.3	1384.2	1374.8	1372.2	1372.2	1364.1
25°	1361.4	1357.4	1361.4	1361.4	1360.1	1361.4	1357.4	1352.0	1348.0	1344.0	1335.9
27.5°	1329.2	1326.6	1329.2	1326.6	1329.2	1325.2	1323.9	1322.5	1317.2	1313.1	1302.4
30°	1297.0	1294.4	1297.0	1294.4	1291.7	1289.0	1282.3	1279.6	1285.0	1282.3	1264.9
32.5°	1256.8	1254.1	1256.8	1256.8	1254.1	1254.1	1243.4	1239.4	1240.7	1248.8	1232.7
35°	1215.2	1211.2	1215.2	1213.9	1215.2	1211.2	1204.5	1203.2	1197.8	1207.2	1195.1
37.5°	1166.9	1162.9	1166.9	1166.9	1166.9	1169.6	1164.3	1160.2	1152.2	1164.3	1154.9
40°	1117.3	1111.9	1117.3	1116.0	1117.3	1120.0	1117.3	1114.6	1106.6	1116.0	1107.9
42.5°	1061.0	1059.6	1061.0	1062.3	1062.3	1067.7	1071.7	1066.3	1063.7	1056.9	1062.3
45°	1000.6	997.9	1000.6	1003.3	1004.6	1007.3	1019.4	1019.4	1015.4	1004.6	1012.7
47.5°	936.2	929.5	936.2	944.3	944.3	948.3	960.4	969.8	963.1	949.6	953.7
50°	867.8	869.2	867.8	873.2	873.2	887.9	897.3	906.7	913.4	897.3	878.6
52.5°	800.8	799.4	800.8	804.8	810.1	816.9	833.0	842.3	853.1	843.7	814.2
55°	733.7	736.4	733.7	735.0	737.7	741.7	765.9	775.3	795.4	783.3	752.5
57.5°	666.6	662.6	666.6	669.3	670.7	674.7	694.8	712.2	724.3	725.6	688.1
60°	588.8	583.5	588.8	600.9	603.6	606.3	625.0	641.1	651.9	655.9	617.0
62.5°	520.4	511.0	520.4	528.5	533.8	540.5	554.0	578.1	587.5	588.8	533.8
65°	448.0	444.0	448.0	464.1	465.4	473.5	488.2	505.7	525.8	523.1	444.0
67.5°	382.3	382.3	382.3	393.0	401.1	405.1	423.9	431.9	457.4	460.1	370.2
70°	321.9	320.6	321.9	330.0	335.3	344.7	362.2	371.5	391.7	398.4	300.5
72.5°	264.2	262.9	264.2	270.9	276.3	284.4	299.1	309.8	327.3	335.3	233.4
75°	213.3	210.6	213.3	218.6	217.3	228.0	240.1	250.8	266.9	272.3	173.0
77.5°	163.6	163.6	163.6	169.0	169.0	179.7	185.1	198.5	207.9	216.0	127.4
80°	122.1	120.7	122.1	123.4	123.4	128.8	138.2	147.5	155.6	155.6	87.2
82.5°	85.8	83.2	85.8	85.8	85.8	88.5	93.9	96.6	101.9	106.0	55.0
85°	53.7	53.7	53.7	55.0	53.7	56.3	57.7	60.4	60.4	57.7	33.5
87.5°	34.9	33.5	34.9	33.5	33.5	32.2	32.2	32.2	30.9	29.5	18.8
90°	23.6	23.6	23.6	23.6	23.6	31.4	41.9	47.1	40.5	27.3	17.4
92.5°	94.4	75.6	94.4	113.1	117.8	167.0	232.6	265.4	233.0	168.3	119.7
95°	329.0	272.2	329.0	385.7	399.9	525.1	692.1	775.6	655.0	413.9	233.1
97.5°	788.1	680.1	788.1	896.2	923.2	1002.3	1107.8	1160.6	959.6	557.6	256.1
100°	1135.6	1006.9	1135.6	1264.2	1296.4	1290.6	1282.9	1279.0	1056.0	609.9	275.3
102.5°	1477.3	1367.1	1477.3	1587.5	1615.1	1514.2	1379.7	1312.5	1086.3	633.8	294.5
105°	1912.9	1853.7	1912.9	1972.2	1987.0	1760.9	1459.5	1308.8	1089.7	651.6	323.0
107.5°	2198.4	2212.7	2198.4	2184.1	2180.5	1865.1	1444.6	1234.4	1041.2	654.9	365.2
110°	2307.3	2369.0	2307.3	2245.5	2230.1	1877.5	1407.4	1172.4	998.2	649.9	388.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2316.9	2411.7	2316.9	2222.2	2198.5	1837.7	1356.6	1116.0	960.7	650.1	417.2
115°	2255.5	2386.9	2255.5	2124.1	2091.2	1743.6	1280.1	1048.4	917.6	656.1	460.0
117.5°	2125.2	2271.0	2125.2	1979.4	1943.0	1629.3	1211.0	1001.9	890.7	668.4	501.6
120°	2020.3	2161.9	2020.3	1878.6	1843.2	1556.6	1174.4	983.3	881.6	678.2	525.7
122.5°	1918.0	2057.7	1918.0	1778.3	1743.4	1485.3	1141.1	969.0	876.8	692.5	554.3
125°	1772.2	1900.9	1772.2	1643.5	1611.3	1392.0	1099.7	953.5	872.9	711.7	590.8
127.5°	1641.0	1749.6	1641.0	1532.4	1505.3	1317.0	1066.0	940.5	870.7	731.0	626.2
130°	1563.7	1664.0	1563.7	1463.5	1438.4	1270.8	1047.3	935.6	872.1	745.0	649.7
132.5°	1493.6	1583.4	1493.6	1403.8	1381.3	1231.3	1031.2	931.2	872.9	756.4	669.0
135°	1397.5	1474.9	1397.5	1320.1	1300.7	1175.1	1007.6	923.8	872.1	768.8	691.3
137.5°	1320.4	1383.8	1320.4	1257.0	1241.2	1135.0	993.3	922.5	877.5	787.4	719.8
140°	1267.6	1326.8	1267.6	1208.3	1193.5	1101.7	979.4	918.2	878.4	798.7	739.0
142.5°	1223.7	1274.7	1223.7	1172.7	1160.0	1079.4	971.9	918.2	881.6	808.3	753.3
145°	1158.0	1196.6	1158.0	1119.4	1109.8	1043.9	956.0	912.0	881.6	820.7	775.0
147.5°	1107.5	1139.5	1107.5	1075.6	1067.6	1015.7	946.6	912.0	887.6	838.9	802.3
150°	1075.8	1101.7	1075.8	1049.9	1043.4	999.6	941.2	912.0	890.8	848.3	816.5
152.5°	1048.6	1068.2	1048.6	1029.1	1024.2	986.8	936.9	912.0	892.8	854.5	825.8
155°	1017.5	1030.4	1017.5	1004.5	1001.3	971.5	931.8	912.0	897.4	868.2	846.3
157.5°	992.8	1001.9	992.8	983.7	981.4	958.3	927.4	912.0	901.9	881.8	866.7
160°	978.1	983.3	978.1	972.8	971.5	951.7	925.2	912.0	904.0	888.0	876.0
162.5°	968.4	973.4	968.4	963.4	962.2	945.5	923.2	912.0	906.2	894.7	886.0
165°	954.5	959.7	954.5	949.3	948.0	936.0	920.0	912.0	909.4	904.1	900.2
167.5°	944.5	946.7	944.5	942.3	941.8	933.9	923.4	918.2	916.0	911.6	908.3
170°	941.8	941.8	941.8	941.8	941.8	933.9	923.4	918.2	918.1	917.8	917.6
172.5°	934.4	932.5	934.4	936.3	936.8	930.6	922.3	918.2	918.2	918.2	918.2
175°	930.0	930.0	930.0	930.0	930.0	926.1	920.8	918.2	919.4	921.9	923.8
177.5°	926.0	923.8	926.0	928.2	928.7	925.6	921.5	919.4	920.4	922.3	923.8
180°	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8



TEST NUMBER: P934616

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1437.9	1429.8	1429.8	1416.4	1411.1	1407.0	1400.3	1380.2	1374.8	1369.5	1377.5
5°	1450.0	1435.2	1424.5	1400.3	1380.2	1372.2	1346.7	1298.4	1266.2	1242.0	1228.6
7.5°	1452.6	1433.9	1413.7	1376.2	1327.9	1306.4	1228.6	1140.1	1116.0	1094.5	1081.1
10°	1450.0	1428.5	1400.3	1344.0	1230.0	1192.4	1114.6	1056.9	1042.2	1038.2	1042.2
12.5°	1440.6	1420.4	1381.5	1287.7	1128.0	1102.6	1056.9	1023.4	1020.7	1027.4	1063.7
15°	1424.5	1405.7	1360.1	1212.5	1071.7	1052.9	1020.7	1008.7	1023.4	1070.4	1179.0
17.5°	1408.4	1386.9	1330.6	1138.8	1028.8	1015.4	992.6	1016.7	1099.9	1162.9	1199.1
20°	1386.9	1361.4	1297.0	1085.1	997.9	985.9	975.1	1083.8	1146.8	1169.6	1189.7
22.5°	1361.4	1334.6	1251.4	1047.6	965.7	956.4	963.1	1121.3	1146.8	1162.9	1180.3
25°	1327.9	1305.1	1197.8	1018.1	940.3	929.5	955.0	1117.3	1132.1	1136.1	1171.0
27.5°	1297.0	1267.5	1141.5	991.2	909.4	905.4	961.7	1099.9	1110.6	1114.6	1152.2
30°	1259.5	1215.2	1078.4	963.1	877.2	875.9	963.1	1078.4	1075.7	1086.5	1124.0
32.5°	1220.6	1137.4	1007.3	928.2	846.4	845.0	953.7	1046.2	1043.5	1058.3	1086.5
35°	1184.4	1077.1	910.7	887.9	807.5	808.8	930.9	1008.7	1010.0	1023.4	1040.9
37.5°	1146.8	1024.8	804.8	843.7	769.9	769.9	900.0	973.8	971.1	975.1	999.3
40°	1102.6	942.9	710.9	786.0	735.0	731.0	862.5	936.2	926.8	925.5	959.0
42.5°	1055.6	853.1	641.1	709.6	694.8	689.4	816.9	890.6	873.2	877.2	920.1
45°	1004.6	828.9	587.5	599.6	653.2	649.2	767.2	838.3	826.2	837.0	881.2
47.5°	953.7	780.6	570.1	497.6	609.0	607.6	712.2	787.3	780.6	791.4	838.3
50°	883.9	727.0	568.7	426.5	559.3	564.7	646.5	737.7	737.7	747.1	796.7
52.5°	794.1	661.3	516.4	386.3	501.6	517.7	588.8	694.8	697.5	706.9	751.1
55°	712.2	592.9	478.8	355.4	433.2	468.1	532.5	650.5	655.9	665.3	705.5
57.5°	637.1	493.6	470.8	319.2	370.2	403.7	482.9	607.6	610.3	618.3	657.2
60°	556.6	356.8	431.9	280.3	315.2	340.7	437.3	556.6	566.0	571.4	604.9
62.5°	465.4	258.9	391.7	253.5	288.4	293.7	399.7	508.4	520.4	524.5	544.6
65°	331.3	217.3	332.6	230.7	260.2	261.6	359.5	458.7	469.5	476.2	490.9
67.5°	224.0	177.1	253.5	209.2	238.8	240.1	320.6	401.1	415.8	421.2	430.6
70°	155.6	118.0	187.8	186.4	214.6	217.3	279.0	348.7	362.2	366.2	371.5
72.5°	114.0	95.2	155.6	167.7	189.1	191.8	236.1	289.7	303.1	307.2	309.8
75°	87.2	100.6	126.1	146.2	161.0	162.3	193.1	236.1	245.5	248.1	249.5
77.5°	69.7	93.9	92.6	118.0	131.4	128.8	151.6	182.4	190.5	190.5	190.5
80°	52.3	73.8	69.7	84.5	96.6	93.9	108.6	130.1	132.8	135.5	134.1
82.5°	38.9	46.9	46.9	53.7	64.4	61.7	72.4	84.5	84.5	84.5	87.2
85°	24.1	26.8	21.5	28.2	36.2	34.9	40.2	45.6	46.9	46.9	44.3
87.5°	14.8	12.1	6.7	10.7	16.1	16.1	18.8	20.1	18.8	18.8	18.8
90°	16.2	11.2	6.2	11.2	16.2	17.4	27.3	40.5	47.1	41.9	31.4
92.5°	109.2	67.0	24.8	67.0	109.2	119.7	168.3	233.0	265.4	232.6	167.0
95°	213.8	136.7	59.5	136.7	213.8	233.1	413.9	655.0	775.6	692.1	525.1
97.5°	239.1	171.0	102.9	171.0	239.1	256.1	557.6	959.6	1160.6	1107.8	1002.3
100°	259.9	198.1	136.4	198.1	259.9	275.3	609.9	1056.0	1279.0	1282.9	1290.6
102.5°	280.1	222.5	164.9	222.5	280.1	294.5	633.8	1086.3	1312.5	1379.7	1514.2
105°	310.8	262.1	213.3	262.1	310.8	323.0	651.6	1089.7	1308.8	1459.5	1760.9
107.5°	353.8	308.4	262.9	308.4	353.8	365.2	654.9	1041.2	1234.4	1444.6	1865.1
110°	378.4	337.4	296.4	337.4	378.4	388.7	649.9	998.2	1172.4	1407.4	1877.5



TEST NUMBER: P934616

CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	407.4	368.3	329.2	368.3	407.4	417.2	650.1	960.7	1116.0	1356.6	1837.7
115°	451.0	414.9	378.8	414.9	451.0	460.0	656.1	917.6	1048.4	1280.1	1743.6
117.5°	493.4	460.6	427.8	460.6	493.4	501.6	668.4	890.7	1001.9	1211.0	1629.3
120°	518.0	487.1	456.3	487.1	518.0	525.7	678.2	881.6	983.3	1174.4	1556.6
122.5°	546.5	515.4	484.2	515.4	546.5	554.3	692.5	876.8	969.0	1141.1	1485.3
125°	583.7	555.4	527.0	555.4	583.7	590.8	711.7	872.9	953.5	1099.7	1392.0
127.5°	619.0	590.4	561.7	590.4	619.0	626.2	731.0	870.7	940.5	1066.0	1317.0
130°	642.0	611.1	580.3	611.1	642.0	649.7	745.0	872.1	935.6	1047.3	1270.8
132.5°	661.3	630.4	599.5	630.4	661.3	669.0	756.4	872.9	931.2	1031.2	1231.3
135°	684.3	656.1	628.0	656.1	684.3	691.3	768.8	872.1	923.8	1007.6	1175.1
137.5°	712.8	685.0	657.2	685.0	712.8	719.8	787.4	877.5	922.5	993.3	1135.0
140°	732.6	707.0	681.4	707.0	732.6	739.0	798.7	878.4	918.2	979.4	1101.7
142.5°	747.4	723.7	700.0	723.7	747.4	753.3	808.3	881.6	918.2	971.9	1079.4
145°	769.8	749.2	728.5	749.2	769.8	775.0	820.7	881.6	912.0	956.0	1043.9
147.5°	797.3	777.1	757.0	777.1	797.3	802.3	838.9	887.6	912.0	946.6	1015.7
150°	812.0	793.8	775.6	793.8	812.0	816.5	848.3	890.8	912.0	941.2	999.6
152.5°	822.4	808.6	794.8	808.6	822.4	825.8	854.5	892.8	912.0	936.9	986.8
155°	843.7	833.5	823.3	833.5	843.7	846.3	868.2	897.4	912.0	931.8	971.5
157.5°	864.2	854.3	844.4	854.3	864.2	866.7	881.8	901.9	912.0	927.4	958.3
160°	874.1	866.4	858.7	866.4	874.1	876.0	888.0	904.0	912.0	925.2	951.7
162.5°	884.5	878.7	872.9	878.7	884.5	886.0	894.7	906.2	912.0	923.2	945.5
165°	898.9	893.6	888.4	893.6	898.9	900.2	904.1	909.4	912.0	920.0	936.0
167.5°	907.7	905.2	902.7	905.2	907.7	908.3	911.6	916.0	918.2	923.4	933.9
170°	917.0	914.5	912.0	914.5	917.0	917.6	917.8	918.1	918.2	923.4	933.9
172.5°	918.1	917.5	917.0	917.5	918.1	918.2	918.2	918.2	918.2	922.3	930.6
175°	923.8	923.8	923.8	923.8	923.8	923.8	921.9	919.4	918.2	920.8	926.1
177.5°	923.8	923.8	923.8	923.8	923.8	923.8	922.3	920.4	919.4	921.5	925.6
180°	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8



TEST NUMBER: P934616
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1368.1	1364.1	1369.5	1354.7	1369.5	1364.1	1368.1	1377.5	1369.5	1374.8	1380.2
5°	1200.5	1193.8	1172.3	1154.9	1172.3	1193.8	1200.5	1228.6	1242.0	1266.2	1298.4
7.5°	1073.0	1067.7	1062.3	1051.6	1062.3	1067.7	1073.0	1081.1	1094.5	1116.0	1140.1
10°	1044.9	1046.2	1054.3	1052.9	1054.3	1046.2	1044.9	1042.2	1038.2	1042.2	1056.9
12.5°	1117.3	1129.4	1173.6	1171.0	1173.6	1129.4	1117.3	1063.7	1027.4	1020.7	1023.4
15°	1200.5	1204.5	1213.9	1215.2	1213.9	1204.5	1200.5	1179.0	1070.4	1023.4	1008.7
17.5°	1208.5	1209.9	1216.6	1216.6	1216.6	1209.9	1208.5	1199.1	1162.9	1099.9	1016.7
20°	1201.8	1204.5	1217.9	1220.6	1217.9	1204.5	1201.8	1189.7	1169.6	1146.8	1083.8
22.5°	1199.1	1204.5	1215.2	1213.9	1215.2	1204.5	1199.1	1180.3	1162.9	1146.8	1121.3
25°	1185.7	1185.7	1187.1	1188.4	1187.1	1185.7	1185.7	1171.0	1136.1	1132.1	1117.3
27.5°	1157.5	1160.2	1168.3	1166.9	1168.3	1160.2	1157.5	1152.2	1114.6	1110.6	1099.9
30°	1132.1	1129.4	1122.7	1117.3	1122.7	1129.4	1132.1	1124.0	1086.5	1075.7	1078.4
32.5°	1089.1	1082.4	1075.7	1071.7	1075.7	1082.4	1089.1	1086.5	1058.3	1043.5	1046.2
35°	1038.2	1039.5	1038.2	1034.1	1038.2	1039.5	1038.2	1040.9	1023.4	1010.0	1008.7
37.5°	1002.0	1004.6	1003.3	997.9	1003.3	1004.6	1002.0	999.3	975.1	971.1	973.8
40°	964.4	965.7	964.4	960.4	964.4	965.7	964.4	959.0	925.5	926.8	936.2
42.5°	928.2	926.8	922.8	920.1	922.8	926.8	928.2	920.1	877.2	873.2	890.6
45°	886.6	887.9	879.9	875.9	879.9	887.9	886.6	881.2	837.0	826.2	838.3
47.5°	845.0	845.0	838.3	834.3	838.3	845.0	845.0	838.3	791.4	780.6	787.3
50°	800.8	799.4	790.0	788.7	790.0	799.4	800.8	796.7	747.1	737.7	737.7
52.5°	749.8	749.8	751.1	753.8	751.1	749.8	749.8	751.1	706.9	697.5	694.8
55°	705.5	706.9	716.3	718.9	716.3	706.9	705.5	705.5	665.3	655.9	650.5
57.5°	659.9	659.9	666.6	666.6	666.6	659.9	659.9	657.2	618.3	610.3	607.6
60°	607.6	610.3	615.7	614.3	615.7	610.3	607.6	604.9	571.4	566.0	556.6
62.5°	552.6	555.3	556.6	554.0	556.6	555.3	552.6	544.6	524.5	520.4	508.4
65°	494.9	497.6	499.0	496.3	499.0	497.6	494.9	490.9	476.2	469.5	458.7
67.5°	435.9	434.6	433.2	438.6	433.2	434.6	435.9	430.6	421.2	415.8	401.1
70°	375.6	375.6	374.2	376.9	374.2	375.6	375.6	371.5	366.2	362.2	348.7
72.5°	311.2	309.8	315.2	311.2	315.2	309.8	311.2	309.8	307.2	303.1	289.7
75°	248.1	250.8	248.1	252.2	248.1	250.8	248.1	249.5	248.1	245.5	236.1
77.5°	189.1	191.8	189.1	189.1	189.1	191.8	189.1	190.5	190.5	190.5	182.4
80°	134.1	132.8	132.8	131.4	132.8	132.8	134.1	134.1	135.5	132.8	130.1
82.5°	85.8	84.5	84.5	87.2	84.5	84.5	85.8	87.2	84.5	84.5	84.5
85°	46.9	48.3	45.6	45.6	45.6	48.3	46.9	44.3	46.9	46.9	45.6
87.5°	17.4	16.1	16.1	16.1	16.1	16.1	17.4	18.8	18.8	18.8	20.1
90°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	31.4	41.9	47.1	40.5
92.5°	117.8	113.1	94.4	75.6	94.4	113.1	117.8	167.0	232.6	265.4	233.0
95°	399.9	385.7	329.0	272.2	329.0	385.7	399.9	525.1	692.1	775.6	655.0
97.5°	923.2	896.2	788.1	680.1	788.1	896.2	923.2	1002.3	1107.8	1160.6	959.6
100°	1296.4	1264.2	1135.6	1006.9	1135.6	1264.2	1296.4	1290.6	1282.9	1279.0	1056.0
102.5°	1615.1	1587.5	1477.3	1367.1	1477.3	1587.5	1615.1	1514.2	1379.7	1312.5	1086.3
105°	1987.0	1972.2	1912.9	1853.7	1912.9	1972.2	1987.0	1760.9	1459.5	1308.8	1089.7
107.5°	2180.5	2184.1	2198.4	2212.7	2198.4	2184.1	2180.5	1865.1	1444.6	1234.4	1041.2
110°	2230.1	2245.5	2307.3	2369.0	2307.3	2245.5	2230.1	1877.5	1407.4	1172.4	998.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2198.5	2222.2	2316.9	2411.7	2316.9	2222.2	2198.5	1837.7	1356.6	1116.0	960.7
115°	2091.2	2124.1	2255.5	2386.9	2255.5	2124.1	2091.2	1743.6	1280.1	1048.4	917.6
117.5°	1943.0	1979.4	2125.2	2271.0	2125.2	1979.4	1943.0	1629.3	1211.0	1001.9	890.7
120°	1843.2	1878.6	2020.3	2161.9	2020.3	1878.6	1843.2	1556.6	1174.4	983.3	881.6
122.5°	1743.4	1778.3	1918.0	2057.7	1918.0	1778.3	1743.4	1485.3	1141.1	969.0	876.8
125°	1611.3	1643.5	1772.2	1900.9	1772.2	1643.5	1611.3	1392.0	1099.7	953.5	872.9
127.5°	1505.3	1532.4	1641.0	1749.6	1641.0	1532.4	1505.3	1317.0	1066.0	940.5	870.7
130°	1438.4	1463.5	1563.7	1664.0	1563.7	1463.5	1438.4	1270.8	1047.3	935.6	872.1
132.5°	1381.3	1403.8	1493.6	1583.4	1493.6	1403.8	1381.3	1231.3	1031.2	931.2	872.9
135°	1300.7	1320.1	1397.5	1474.9	1397.5	1320.1	1300.7	1175.1	1007.6	923.8	872.1
137.5°	1241.2	1257.0	1320.4	1383.8	1320.4	1257.0	1241.2	1135.0	993.3	922.5	877.5
140°	1193.5	1208.3	1267.6	1326.8	1267.6	1208.3	1193.5	1101.7	979.4	918.2	878.4
142.5°	1160.0	1172.7	1223.7	1274.7	1223.7	1172.7	1160.0	1079.4	971.9	918.2	881.6
145°	1109.8	1119.4	1158.0	1196.6	1158.0	1119.4	1109.8	1043.9	956.0	912.0	881.6
147.5°	1067.6	1075.6	1107.5	1139.5	1107.5	1075.6	1067.6	1015.7	946.6	912.0	887.6
150°	1043.4	1049.9	1075.8	1101.7	1075.8	1049.9	1043.4	999.6	941.2	912.0	890.8
152.5°	1024.2	1029.1	1048.6	1068.2	1048.6	1029.1	1024.2	986.8	936.9	912.0	892.8
155°	1001.3	1004.5	1017.5	1030.4	1017.5	1004.5	1001.3	971.5	931.8	912.0	897.4
157.5°	981.4	983.7	992.8	1001.9	992.8	983.7	981.4	958.3	927.4	912.0	901.9
160°	971.5	972.8	978.1	983.3	978.1	972.8	971.5	951.7	925.2	912.0	904.0
162.5°	962.2	963.4	968.4	973.4	968.4	963.4	962.2	945.5	923.2	912.0	906.2
165°	948.0	949.3	954.5	959.7	954.5	949.3	948.0	936.0	920.0	912.0	909.4
167.5°	941.8	942.3	944.5	946.7	944.5	942.3	941.8	933.9	923.4	918.2	916.0
170°	941.8	941.8	941.8	941.8	941.8	941.8	941.8	933.9	923.4	918.2	918.1
172.5°	936.8	936.3	934.4	932.5	934.4	936.3	936.8	930.6	922.3	918.2	918.2
175°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	926.1	920.8	918.2	919.4
177.5°	928.7	928.2	926.0	923.8	926.0	928.2	928.7	925.6	921.5	919.4	920.4
180°	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8	923.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1400.3	1407.0	1411.1	1416.4	1429.8
5°	1346.7	1372.2	1380.2	1400.3	1424.5
7.5°	1228.6	1306.4	1327.9	1376.2	1413.7
10°	1114.6	1192.4	1230.0	1344.0	1400.3
12.5°	1056.9	1102.6	1128.0	1287.7	1381.5
15°	1020.7	1052.9	1071.7	1212.5	1360.1
17.5°	992.6	1015.4	1028.8	1138.8	1330.6
20°	975.1	985.9	997.9	1085.1	1297.0
22.5°	963.1	956.4	965.7	1047.6	1251.4
25°	955.0	929.5	940.3	1018.1	1197.8
27.5°	961.7	905.4	909.4	991.2	1141.5
30°	963.1	875.9	877.2	963.1	1078.4
32.5°	953.7	845.0	846.4	928.2	1007.3
35°	930.9	808.8	807.5	887.9	910.7
37.5°	900.0	769.9	769.9	843.7	804.8
40°	862.5	731.0	735.0	786.0	710.9
42.5°	816.9	689.4	694.8	709.6	641.1
45°	767.2	649.2	653.2	599.6	587.5
47.5°	712.2	607.6	609.0	497.6	570.1
50°	646.5	564.7	559.3	426.5	568.7
52.5°	588.8	517.7	501.6	386.3	516.4
55°	532.5	468.1	433.2	355.4	478.8
57.5°	482.9	403.7	370.2	319.2	470.8
60°	437.3	340.7	315.2	280.3	431.9
62.5°	399.7	293.7	288.4	253.5	391.7
65°	359.5	261.6	260.2	230.7	332.6
67.5°	320.6	240.1	238.8	209.2	253.5
70°	279.0	217.3	214.6	186.4	187.8
72.5°	236.1	191.8	189.1	167.7	155.6
75°	193.1	162.3	161.0	146.2	126.1
77.5°	151.6	128.8	131.4	118.0	92.6
80°	108.6	93.9	96.6	84.5	69.7
82.5°	72.4	61.7	64.4	53.7	46.9
85°	40.2	34.9	36.2	28.2	21.5
87.5°	18.8	16.1	16.1	10.7	6.7
90°	27.3	17.4	16.2	11.2	6.2
92.5°	168.3	119.7	109.2	67.0	24.8
95°	413.9	233.1	213.8	136.7	59.5
97.5°	557.6	256.1	239.1	171.0	102.9
100°	609.9	275.3	259.9	198.1	136.4
102.5°	633.8	294.5	280.1	222.5	164.9
105°	651.6	323.0	310.8	262.1	213.3
107.5°	654.9	365.2	353.8	308.4	262.9
110°	649.9	388.7	378.4	337.4	296.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	650.1	417.2	407.4	368.3	329.2
115°	656.1	460.0	451.0	414.9	378.8
117.5°	668.4	501.6	493.4	460.6	427.8
120°	678.2	525.7	518.0	487.1	456.3
122.5°	692.5	554.3	546.5	515.4	484.2
125°	711.7	590.8	583.7	555.4	527.0
127.5°	731.0	626.2	619.0	590.4	561.7
130°	745.0	649.7	642.0	611.1	580.3
132.5°	756.4	669.0	661.3	630.4	599.5
135°	768.8	691.3	684.3	656.1	628.0
137.5°	787.4	719.8	712.8	685.0	657.2
140°	798.7	739.0	732.6	707.0	681.4
142.5°	808.3	753.3	747.4	723.7	700.0
145°	820.7	775.0	769.8	749.2	728.5
147.5°	838.9	802.3	797.3	777.1	757.0
150°	848.3	816.5	812.0	793.8	775.6
152.5°	854.5	825.8	822.4	808.6	794.8
155°	868.2	846.3	843.7	833.5	823.3
157.5°	881.8	866.7	864.2	854.3	844.4
160°	888.0	876.0	874.1	866.4	858.7
162.5°	894.7	886.0	884.5	878.7	872.9
165°	904.1	900.2	898.9	893.6	888.4
167.5°	911.6	908.3	907.7	905.2	902.7
170°	917.8	917.6	917.0	914.5	912.0
172.5°	918.2	918.2	918.1	917.5	917.0
175°	921.9	923.8	923.8	923.8	923.8
177.5°	922.3	923.8	923.8	923.8	923.8
180°	923.8	923.8	923.8	923.8	923.8



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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	10.14	10.90	11.19	11.96	13.39	12.97	13.74	14.03	14.79	16.23
	3H	10.61	11.29	11.67	12.35	13.81	14.31	15.00	15.38	16.06	17.51
	4H	10.79	11.44	11.87	12.51	13.96	14.75	15.40	15.83	16.47	17.93
	6H	10.91	11.50	11.99	12.57	14.04	15.04	15.63	16.12	16.70	18.17
	8H	10.90	11.47	11.99	12.56	14.02	15.11	15.68	16.20	16.76	18.23
	12H	10.87	11.41	11.96	12.49	13.98	15.15	15.68	16.24	16.77	18.25
4H	2H	11.16	11.81	12.24	12.87	14.33	13.37	14.02	14.45	15.09	16.54
	3H	12.18	12.72	13.26	13.81	15.28	14.87	15.41	15.96	16.50	17.97
	4H	12.45	12.94	13.54	14.03	15.52	15.39	15.89	16.49	16.98	18.47
	6H	12.57	12.99	13.67	14.10	15.59	15.76	16.18	16.86	17.29	18.77
	8H	12.57	12.97	13.67	14.07	15.57	15.86	16.26	16.96	17.36	18.86
	12H	12.53	12.89	13.65	14.01	15.51	15.91	16.27	17.03	17.39	18.89
8H	4H	12.89	13.29	14.00	14.39	15.89	15.51	15.91	16.61	17.01	18.51
	6H	13.15	13.48	14.28	14.62	16.12	15.95	16.27	17.07	17.42	18.91
	8H	13.19	13.48	14.32	14.60	16.12	16.10	16.38	17.23	17.51	19.03
	12H	13.17	13.43	14.31	14.55	16.10	16.19	16.45	17.33	17.57	19.12
12H	4H	12.90	13.26	14.02	14.37	15.88	15.47	15.83	16.59	16.94	18.45
	6H	13.21	13.50	14.34	14.62	16.14	15.94	16.23	17.07	17.35	18.87
	8H	13.27	13.53	14.41	14.65	16.20	16.10	16.35	17.23	17.47	19.03