

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: P571969

Luminaire Tested: 22ID-45-L840-SWR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-45-L840-SWR
Description: 4500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED SWEEP LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4637.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.2 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

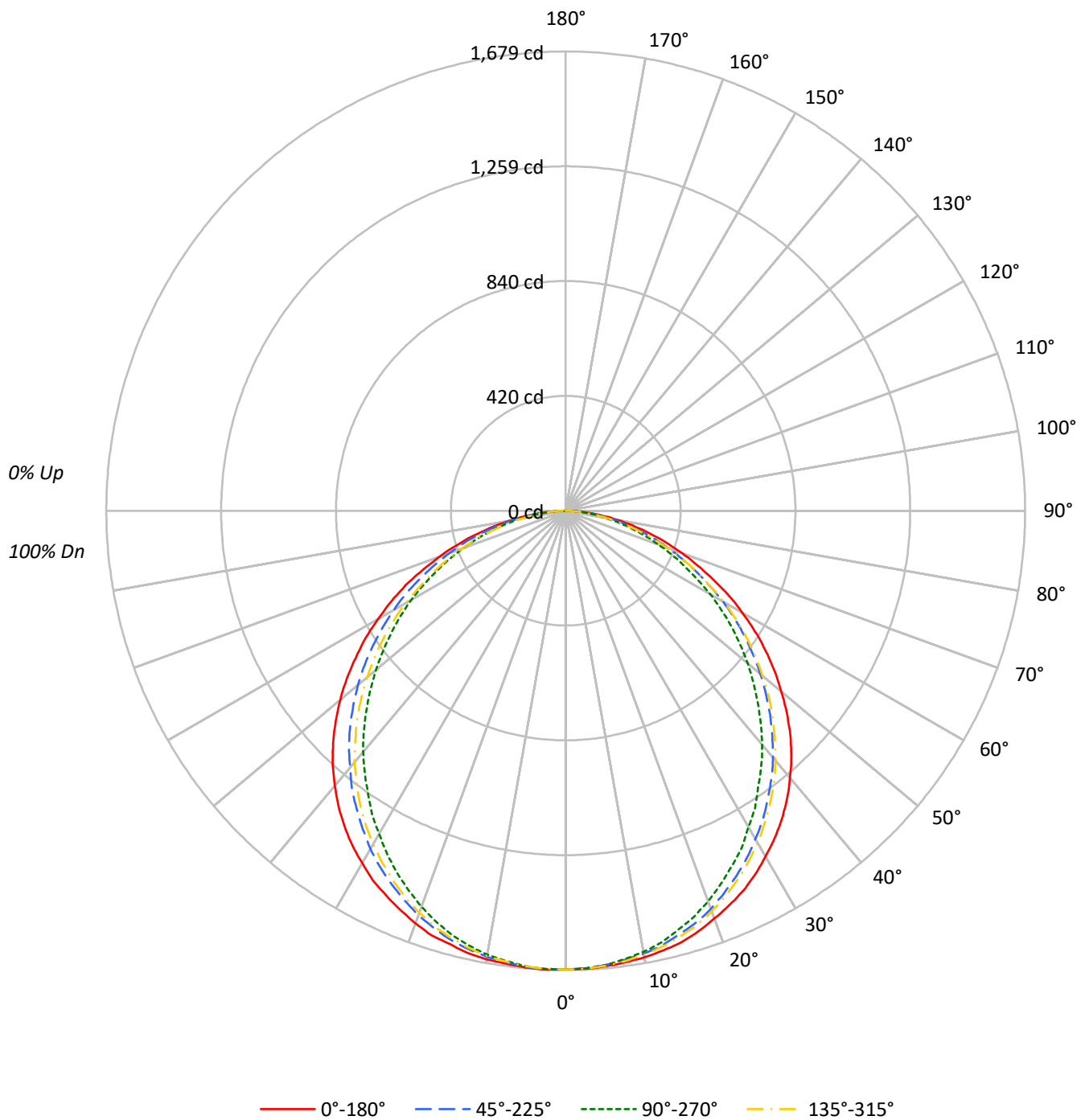
Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: 22ID-45-L840-SWR

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4512	4512	4512	4512
5°	4517	4504	4529	4517
10°	4531	4474	4550	4506
15°	4549	4421	4568	4472
20°	4544	4353	4597	4412
25°	4554	4260	4609	4336
30°	4537	4151	4623	4237
35°	4525	4033	4630	4139
40°	4482	3924	4612	4045
45°	4418	3777	4575	3918
50°	4310	3635	4503	3789
55°	4182	3468	4398	3652
60°	4016	3285	4264	3508
65°	3784	3051	4106	3300
70°	3552	2827	3860	3116
75°	3280	2562	3592	2898
80°	2963	2249	3177	2605
85°	2418	1849	2489	2205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 4575 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	3.4
10°-20°	455.7	9.8
20°-30°	687.8	14.8
30°-40°	821.2	17.7
40°-50°	838.0	18.1
50°-60°	739.0	15.9
60°-70°	546.1	11.8
70°-80°	307.9	6.6
80°-90°	82.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1302.3	28.1
0°-40°	2123.5	45.8
0°-60°	3700.5	79.8
0°-90°	4637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4637.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1677	1677	1677	1677	1677	
5°	1672	1668	1677	1672	1672	159
15°	1633	1587	1640	1605	1633	461
25°	1534	1435	1552	1460	1534	706
35°	1377	1228	1410	1260	1377	861
45°	1161	993	1202	1030	1161	894
55°	891	739	937	778	891	796
65°	594	479	645	518	594	590
75°	316	246	346	279	316	335
85°	78	60	81	71	78	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1676.7	1676.7	1676.7	1676.7	1674.4	1672.1	1672.1	1674.4	1674.4	1672.1	1674.4
5°	1672.1	1672.1	1672.1	1669.8	1667.5	1667.5	1667.5	1667.5	1665.2	1667.5	1667.5
7.5°	1665.2	1665.2	1665.2	1662.9	1660.6	1660.6	1660.6	1658.3	1656.0	1658.3	1656.0
10°	1658.3	1656.0	1656.0	1656.0	1651.3	1649.0	1649.0	1649.0	1646.7	1646.7	1644.4
12.5°	1646.7	1644.4	1644.4	1642.1	1639.8	1637.5	1635.2	1632.9	1630.6	1628.3	1628.3
15°	1632.9	1632.9	1628.3	1626.0	1621.4	1619.1	1616.8	1614.5	1609.9	1607.6	1603.0
17.5°	1612.2	1612.2	1607.6	1605.3	1600.7	1596.1	1596.1	1591.5	1586.9	1582.2	1579.9
20°	1586.9	1589.2	1586.9	1582.2	1575.3	1573.0	1570.7	1566.1	1559.2	1554.6	1550.0
22.5°	1561.5	1563.8	1559.2	1552.3	1547.7	1545.4	1540.8	1533.9	1527.0	1520.1	1513.2
25°	1533.9	1531.6	1527.0	1522.4	1515.5	1513.2	1508.5	1501.6	1490.1	1483.2	1474.0
27.5°	1499.3	1499.3	1492.4	1487.8	1476.3	1476.3	1469.4	1460.2	1451.0	1439.5	1432.5
30°	1460.2	1460.2	1455.6	1448.7	1437.2	1434.8	1427.9	1421.0	1407.2	1395.7	1386.5
32.5°	1421.0	1418.7	1414.1	1407.2	1395.7	1391.1	1384.2	1375.0	1363.5	1347.3	1340.4
35°	1377.3	1375.0	1368.1	1358.8	1349.6	1345.0	1338.1	1326.6	1315.1	1299.0	1287.4
37.5°	1328.9	1326.6	1319.7	1310.5	1299.0	1294.4	1287.4	1275.9	1259.8	1248.3	1234.5
40°	1275.9	1273.6	1269.0	1259.8	1248.3	1243.7	1234.5	1223.0	1204.5	1190.7	1179.2
42.5°	1220.7	1218.4	1211.4	1199.9	1190.7	1186.1	1176.9	1165.4	1149.3	1133.1	1117.0
45°	1160.8	1158.5	1151.6	1137.7	1130.8	1123.9	1114.7	1103.2	1089.4	1075.6	1057.1
47.5°	1096.3	1094.0	1089.4	1077.9	1064.0	1061.7	1052.5	1041.0	1024.9	1006.5	992.6
50°	1029.5	1029.5	1022.6	1013.4	1004.2	997.3	988.0	976.5	955.8	944.3	928.2
52.5°	962.7	960.4	955.8	944.3	937.4	930.5	918.9	912.0	891.3	882.1	863.7
55°	891.3	889.0	879.8	872.9	868.3	861.4	852.2	838.3	826.8	813.0	796.9
57.5°	819.9	817.6	810.7	806.1	796.9	790.0	780.8	771.5	755.4	746.2	730.1
60°	746.2	746.2	741.6	734.7	725.5	718.6	711.7	702.5	688.6	674.8	663.3
62.5°	672.5	672.5	665.6	658.7	654.1	647.2	642.6	631.1	619.5	610.3	591.9
65°	594.2	594.2	585.0	582.7	578.1	573.5	566.6	555.1	548.1	532.0	525.1
67.5°	520.5	522.8	515.9	515.9	509.0	504.4	497.5	488.3	481.4	467.5	460.6
70°	451.4	453.7	449.1	446.8	439.9	435.3	430.7	423.8	414.6	410.0	398.4
72.5°	382.3	384.6	380.0	380.0	373.1	370.8	366.2	361.6	352.4	347.8	336.3
75°	315.5	313.2	313.2	315.5	308.6	306.3	304.0	294.8	290.2	285.6	276.4
77.5°	251.0	251.0	253.3	251.0	246.4	244.1	239.5	232.6	230.3	228.0	218.8
80°	191.2	193.5	193.5	191.2	186.6	184.3	181.9	175.0	172.7	172.7	165.8
82.5°	133.6	133.6	131.3	133.6	129.0	126.7	129.0	122.1	119.8	119.8	115.2
85°	78.3	76.0	76.0	78.3	76.0	76.0	76.0	71.4	71.4	71.4	66.8
87.5°	29.9	29.9	32.2	32.2	29.9	29.9	29.9	29.9	27.6	27.6	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1672.1	1672.1	1672.1	1672.1	1674.4	1672.1	1674.4	1674.4	1676.7	1674.4	1676.7
5°	1667.5	1667.5	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1667.5	1667.5
7.5°	1656.0	1656.0	1653.6	1653.6	1653.6	1653.6	1651.3	1651.3	1653.6	1653.6	1653.6
10°	1642.1	1639.8	1637.5	1637.5	1637.5	1637.5	1635.2	1637.5	1637.5	1637.5	1637.5
12.5°	1621.4	1621.4	1619.1	1616.8	1616.8	1616.8	1614.5	1616.8	1616.8	1616.8	1616.8
15°	1600.7	1598.4	1596.1	1591.5	1591.5	1589.2	1586.9	1589.2	1586.9	1586.9	1589.2
17.5°	1570.7	1570.7	1566.1	1563.8	1561.5	1559.2	1556.9	1556.9	1556.9	1556.9	1561.5
20°	1540.8	1538.5	1533.9	1524.7	1527.0	1524.7	1520.1	1522.4	1522.4	1520.1	1520.1
22.5°	1508.5	1499.3	1494.7	1485.5	1487.8	1483.2	1480.9	1483.2	1480.9	1478.6	1483.2
25°	1464.8	1460.2	1448.7	1448.7	1444.1	1441.8	1441.8	1439.5	1437.2	1434.8	1439.5
27.5°	1425.6	1416.4	1409.5	1400.3	1395.7	1395.7	1393.4	1391.1	1386.5	1391.1	1391.1
30°	1377.3	1368.1	1356.5	1351.9	1347.3	1347.3	1342.7	1340.4	1335.8	1335.8	1342.7
32.5°	1331.2	1317.4	1305.9	1299.0	1296.7	1294.4	1292.1	1282.8	1285.1	1287.4	1289.8
35°	1275.9	1264.4	1255.2	1248.3	1241.4	1239.1	1236.8	1229.9	1229.9	1227.6	1234.5
37.5°	1223.0	1209.1	1202.2	1190.7	1186.1	1181.5	1179.2	1174.6	1172.3	1174.6	1176.9
40°	1165.4	1153.9	1142.4	1130.8	1126.2	1123.9	1117.0	1117.0	1112.4	1117.0	1117.0
42.5°	1105.5	1094.0	1080.2	1071.0	1066.3	1061.7	1057.1	1054.8	1054.8	1054.8	1057.1
45°	1045.6	1031.8	1018.0	1008.8	1004.2	1001.9	995.0	992.6	988.0	992.6	995.0
47.5°	981.1	969.6	955.8	948.9	942.0	939.7	932.8	928.2	925.9	930.5	930.5
50°	916.6	905.1	893.6	884.4	877.5	875.2	868.3	868.3	863.7	868.3	868.3
52.5°	852.2	840.6	829.1	817.6	813.0	810.7	803.8	803.8	803.8	803.8	803.8
55°	787.7	771.5	764.6	753.1	748.5	746.2	743.9	737.0	739.3	739.3	739.3
57.5°	720.9	709.4	695.5	690.9	684.0	681.7	681.7	672.5	670.2	674.8	674.8
60°	654.1	644.9	631.1	624.1	619.5	619.5	612.6	603.4	601.1	610.3	610.3
62.5°	585.0	571.2	564.3	557.4	552.8	550.4	548.1	541.2	543.5	541.2	541.2
65°	520.5	506.7	502.1	495.2	490.6	488.3	486.0	481.4	476.7	479.1	479.1
67.5°	456.0	444.5	437.6	433.0	428.4	428.4	423.8	419.2	421.5	419.2	419.2
70°	393.8	384.6	375.4	373.1	368.5	368.5	366.2	363.9	361.6	359.3	359.3
72.5°	334.0	324.7	317.8	313.2	310.9	310.9	308.6	301.7	304.0	301.7	301.7
75°	271.8	264.9	262.6	258.0	255.6	255.6	253.3	248.7	251.0	246.4	241.8
77.5°	216.5	209.6	207.3	205.0	207.3	205.0	198.1	200.4	198.1	193.5	193.5
80°	165.8	158.9	158.9	154.3	152.0	152.0	149.7	149.7	147.4	145.1	145.1
82.5°	112.9	110.6	108.2	105.9	103.6	108.2	103.6	101.3	101.3	101.3	99.0
85°	64.5	64.5	62.2	62.2	59.9	62.2	59.9	57.6	59.9	59.9	55.3
87.5°	25.3	27.6	23.0	23.0	23.0	23.0	20.7	23.0	23.0	23.0	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1676.7	1674.4	1674.4	1674.4	1674.4	1672.1	1674.4	1674.4	1676.7	1674.4	1674.4
5°	1667.5	1665.2	1667.5	1665.2	1665.2	1667.5	1667.5	1669.8	1669.8	1672.1	1672.1
7.5°	1653.6	1653.6	1653.6	1653.6	1653.6	1656.0	1656.0	1658.3	1660.6	1660.6	1662.9
10°	1637.5	1637.5	1639.8	1637.5	1639.8	1642.1	1644.4	1646.7	1649.0	1651.3	1651.3
12.5°	1616.8	1616.8	1616.8	1621.4	1621.4	1623.7	1626.0	1630.6	1632.9	1637.5	1637.5
15°	1589.2	1589.2	1593.8	1593.8	1596.1	1600.7	1605.3	1607.6	1612.2	1616.8	1619.1
17.5°	1559.2	1559.2	1563.8	1563.8	1566.1	1573.0	1577.6	1579.9	1589.2	1593.8	1598.4
20°	1524.7	1524.7	1531.6	1529.3	1533.9	1540.8	1545.4	1552.3	1559.2	1566.1	1570.7
22.5°	1483.2	1485.5	1492.4	1492.4	1494.7	1503.9	1510.9	1517.8	1524.7	1533.9	1540.8
25°	1439.5	1441.8	1448.7	1451.0	1453.3	1462.5	1471.7	1476.3	1487.8	1499.3	1503.9
27.5°	1391.1	1395.7	1400.3	1402.6	1407.2	1418.7	1427.9	1437.2	1446.4	1457.9	1467.1
30°	1342.7	1347.3	1351.9	1354.2	1358.8	1370.4	1379.6	1391.1	1402.6	1414.1	1423.3
32.5°	1287.4	1294.4	1299.0	1303.6	1305.9	1319.7	1331.2	1342.7	1354.2	1368.1	1379.6
35°	1234.5	1241.4	1246.0	1248.3	1252.9	1266.7	1275.9	1287.4	1303.6	1317.4	1328.9
37.5°	1176.9	1181.5	1190.7	1190.7	1195.3	1211.4	1223.0	1234.5	1250.6	1264.4	1278.2
40°	1119.3	1121.6	1130.8	1133.1	1137.7	1153.9	1165.4	1181.5	1193.0	1209.1	1223.0
42.5°	1057.1	1064.0	1073.3	1077.9	1082.5	1091.7	1100.9	1119.3	1130.8	1149.3	1163.1
45°	995.0	1001.9	1006.5	1008.8	1020.3	1029.5	1038.7	1057.1	1071.0	1087.1	1103.2
47.5°	932.8	937.4	944.3	953.5	958.1	967.3	974.2	992.6	1006.5	1024.9	1038.7
50°	868.3	875.2	879.8	882.1	891.3	902.8	912.0	928.2	939.7	958.1	974.2
52.5°	803.8	813.0	813.0	822.2	826.8	831.4	845.2	861.4	872.9	889.0	905.1
55°	741.6	746.2	753.1	755.4	762.3	766.9	776.2	792.3	806.1	822.2	838.3
57.5°	672.5	677.1	681.7	690.9	695.5	704.8	714.0	725.5	737.0	753.1	764.6
60°	605.7	612.6	617.2	624.1	624.1	635.7	647.2	658.7	667.9	684.0	695.5
62.5°	545.8	545.8	545.8	555.1	552.8	562.0	571.2	585.0	594.2	614.9	628.8
65°	481.4	483.7	483.7	490.6	488.3	497.5	504.4	518.2	527.4	538.9	552.8
67.5°	419.2	419.2	421.5	428.4	426.1	433.0	444.5	451.4	458.3	472.1	483.7
70°	354.7	357.0	359.3	366.2	363.9	373.1	380.0	384.6	393.8	403.0	412.3
72.5°	299.4	299.4	306.3	306.3	304.0	310.9	317.8	322.4	327.0	338.6	350.1
75°	246.4	244.1	248.7	248.7	246.4	248.7	253.3	260.3	264.9	274.1	283.3
77.5°	193.5	191.2	195.8	195.8	195.8	193.5	200.4	202.7	205.0	209.6	218.8
80°	142.8	140.5	145.1	145.1	140.5	142.8	147.4	149.7	149.7	154.3	161.2
82.5°	99.0	96.7	99.0	99.0	99.0	99.0	101.3	99.0	101.3	101.3	108.2
85°	59.9	57.6	59.9	57.6	57.6	55.3	59.9	57.6	57.6	59.9	59.9
87.5°	20.7	20.7	23.0	23.0	20.7	23.0	20.7	20.7	20.7	23.0	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571969

CATALOG NUMBER: 22ID-45-L840-SWR

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1679.0	1679.0	1676.7	1679.0	1676.7
5°	1672.1	1672.1	1674.4	1674.4	1674.4	1674.4	1674.4	1676.7	1676.7	1676.7	1674.4
7.5°	1665.2	1665.2	1665.2	1665.2	1667.5	1669.8	1669.8	1669.8	1672.1	1669.8	1669.8
10°	1653.6	1658.3	1658.3	1660.6	1660.6	1662.9	1665.2	1665.2	1665.2	1665.2	1665.2
12.5°	1642.1	1644.4	1646.7	1649.0	1651.3	1651.3	1656.0	1656.0	1656.0	1656.0	1653.6
15°	1623.7	1628.3	1630.6	1632.9	1637.5	1637.5	1642.1	1639.8	1644.4	1642.1	1639.8
17.5°	1603.0	1607.6	1612.2	1612.2	1619.1	1621.4	1626.0	1628.3	1628.3	1626.0	1621.4
20°	1577.6	1584.6	1586.9	1591.5	1596.1	1600.7	1603.0	1605.3	1607.6	1605.3	1603.0
22.5°	1547.7	1556.9	1559.2	1563.8	1570.7	1575.3	1577.6	1579.9	1582.2	1582.2	1577.6
25°	1515.5	1527.0	1527.0	1533.9	1540.8	1547.7	1552.3	1552.3	1556.9	1552.3	1552.3
27.5°	1476.3	1490.1	1497.0	1499.3	1508.5	1515.5	1520.1	1524.7	1524.7	1520.1	1520.1
30°	1437.2	1451.0	1457.9	1460.2	1471.7	1478.6	1483.2	1487.8	1487.8	1487.8	1483.2
32.5°	1393.4	1409.5	1416.4	1418.7	1432.5	1439.5	1446.4	1451.0	1451.0	1448.7	1441.8
35°	1347.3	1358.8	1370.4	1375.0	1386.5	1393.4	1404.9	1409.5	1407.2	1407.2	1400.3
37.5°	1294.4	1312.8	1319.7	1324.3	1338.1	1347.3	1358.8	1363.5	1363.5	1361.1	1356.5
40°	1239.1	1259.8	1266.7	1273.6	1287.4	1299.0	1305.9	1312.8	1312.8	1312.8	1308.2
42.5°	1183.8	1199.9	1209.1	1216.1	1232.2	1239.1	1250.6	1259.8	1259.8	1257.5	1250.6
45°	1121.6	1140.0	1149.3	1156.2	1172.3	1186.1	1193.0	1202.2	1199.9	1199.9	1190.7
47.5°	1059.4	1077.9	1087.1	1094.0	1110.1	1126.2	1130.8	1140.0	1140.0	1140.0	1130.8
50°	995.0	1013.4	1020.3	1027.2	1045.6	1054.8	1066.3	1075.6	1075.6	1077.9	1068.7
52.5°	928.2	942.0	953.5	958.1	976.5	988.0	997.3	1008.8	1008.8	1004.2	1004.2
55°	856.8	872.9	884.4	889.0	902.8	921.3	928.2	937.4	937.4	937.4	932.8
57.5°	785.4	803.8	813.0	817.6	833.7	847.6	856.8	866.0	868.3	868.3	859.1
60°	711.7	730.1	739.3	743.9	762.3	773.9	783.1	792.3	794.6	796.9	787.7
62.5°	642.6	658.7	667.9	672.5	686.3	695.5	707.1	718.6	720.9	720.9	716.3
65°	566.6	582.7	589.6	594.2	605.7	621.8	635.7	644.9	647.2	644.9	644.9
67.5°	495.2	509.0	518.2	520.5	532.0	548.1	555.1	564.3	566.6	566.6	564.3
70°	423.8	439.9	446.8	451.4	460.6	474.4	481.4	490.6	492.9	495.2	490.6
72.5°	357.0	368.5	375.4	380.0	391.5	403.0	407.7	416.9	421.5	421.5	416.9
75°	290.2	301.7	306.3	310.9	320.1	331.7	336.3	345.5	350.1	347.8	347.8
77.5°	225.7	234.9	239.5	241.8	248.7	262.6	264.9	274.1	274.1	276.4	276.4
80°	165.8	172.7	177.3	179.6	184.3	193.5	198.1	205.0	209.6	207.3	207.3
82.5°	110.6	115.2	119.8	124.4	124.4	133.6	133.6	140.5	140.5	145.1	142.8
85°	62.2	64.5	66.8	69.1	69.1	76.0	76.0	80.6	85.2	80.6	80.6
87.5°	20.7	23.0	23.0	25.3	23.0	27.6	25.3	29.9	32.2	32.2	29.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571969

CATALOG NUMBER: 22ID-45-L840-SWR

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
5°	1674.4	1674.4	1672.1	1674.4	1674.4	1674.4	1674.4	1672.1	1672.1	1672.1	1672.1
7.5°	1669.8	1667.5	1667.5	1667.5	1665.2	1665.2	1665.2	1665.2	1662.9	1662.9	1662.9
10°	1662.9	1660.6	1660.6	1660.6	1658.3	1658.3	1656.0	1653.6	1653.6	1651.3	1649.0
12.5°	1653.6	1651.3	1649.0	1649.0	1646.7	1644.4	1642.1	1639.8	1637.5	1632.9	1632.9
15°	1637.5	1637.5	1635.2	1632.9	1628.3	1628.3	1623.7	1621.4	1616.8	1612.2	1612.2
17.5°	1621.4	1619.1	1616.8	1612.2	1607.6	1605.3	1600.7	1596.1	1591.5	1586.9	1584.6
20°	1600.7	1593.8	1596.1	1589.2	1584.6	1579.9	1573.0	1568.4	1561.5	1556.9	1552.3
22.5°	1573.0	1570.7	1568.4	1561.5	1554.6	1552.3	1540.8	1533.9	1527.0	1520.1	1515.5
25°	1543.1	1540.8	1538.5	1531.6	1522.4	1517.8	1506.2	1499.3	1487.8	1483.2	1478.6
27.5°	1508.5	1508.5	1503.9	1494.7	1487.8	1476.3	1469.4	1455.6	1446.4	1439.5	1434.8
30°	1471.7	1471.7	1467.1	1455.6	1446.4	1434.8	1427.9	1414.1	1402.6	1395.7	1386.5
32.5°	1434.8	1432.5	1427.9	1416.4	1404.9	1393.4	1379.6	1368.1	1354.2	1347.3	1338.1
35°	1391.1	1388.8	1384.2	1370.4	1361.1	1347.3	1331.2	1317.4	1303.6	1296.7	1282.8
37.5°	1345.0	1340.4	1335.8	1319.7	1308.2	1294.4	1282.8	1264.4	1250.6	1241.4	1234.5
40°	1294.4	1292.1	1285.1	1271.3	1255.2	1241.4	1225.3	1211.4	1197.6	1186.1	1176.9
42.5°	1243.7	1234.5	1229.9	1216.1	1204.5	1183.8	1172.3	1153.9	1140.0	1130.8	1117.0
45°	1186.1	1179.2	1172.3	1158.5	1142.4	1126.2	1114.7	1094.0	1080.2	1068.7	1057.1
47.5°	1121.6	1119.3	1112.4	1096.3	1082.5	1066.3	1052.5	1031.8	1018.0	1008.8	997.3
50°	1057.1	1054.8	1050.2	1034.1	1015.7	1001.9	990.3	969.6	955.8	942.0	935.1
52.5°	997.3	988.0	983.4	969.6	951.2	935.1	925.9	905.1	891.3	877.5	868.3
55°	928.2	921.3	916.6	905.1	889.0	868.3	859.1	840.6	829.1	819.9	806.1
57.5°	859.1	849.9	845.2	831.4	819.9	803.8	792.3	773.9	762.3	753.1	743.9
60°	780.8	780.8	776.2	762.3	750.8	734.7	725.5	707.1	695.5	688.6	677.1
62.5°	716.3	707.1	704.8	688.6	681.7	665.6	658.7	642.6	635.7	624.1	612.6
65°	635.7	635.7	633.4	624.1	614.9	594.2	585.0	571.2	564.3	555.1	545.8
67.5°	564.3	557.4	557.4	548.1	536.6	525.1	518.2	504.4	499.8	488.3	481.4
70°	492.9	486.0	486.0	474.4	467.5	456.0	451.4	439.9	430.7	426.1	419.2
72.5°	421.5	416.9	414.6	405.4	400.7	389.2	386.9	375.4	366.2	363.9	357.0
75°	350.1	345.5	338.6	340.9	331.7	322.4	320.1	313.2	308.6	301.7	294.8
77.5°	278.7	274.1	274.1	269.5	264.9	258.0	255.6	251.0	244.1	239.5	234.9
80°	211.9	207.3	207.3	205.0	198.1	193.5	193.5	186.6	186.6	181.9	179.6
82.5°	145.1	142.8	140.5	142.8	138.2	133.6	135.9	133.6	131.3	126.7	124.4
85°	85.2	82.9	80.6	85.2	80.6	82.9	80.6	78.3	78.3	76.0	73.7
87.5°	32.2	32.2	29.9	32.2	32.2	34.5	32.2	32.2	32.2	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571969

CATALOG NUMBER: 22ID-45-L840-SWR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
5°	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1669.8	1672.1
7.5°	1662.9	1660.6	1662.9	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6
10°	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1646.7	1646.7
12.5°	1632.9	1632.9	1630.6	1630.6	1630.6	1628.3	1628.3	1630.6	1630.6	1628.3	1630.6
15°	1609.9	1612.2	1607.6	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1605.3	1607.6
17.5°	1584.6	1582.2	1579.9	1579.9	1577.6	1575.3	1575.3	1577.6	1577.6	1579.9	1579.9
20°	1552.3	1552.3	1547.7	1545.4	1543.1	1540.8	1540.8	1543.1	1543.1	1543.1	1547.7
22.5°	1515.5	1513.2	1508.5	1506.2	1506.2	1501.6	1503.9	1506.2	1506.2	1506.2	1508.5
25°	1474.0	1471.7	1469.4	1467.1	1462.5	1460.2	1460.2	1464.8	1464.8	1469.4	1471.7
27.5°	1430.2	1427.9	1423.3	1418.7	1416.4	1414.1	1414.1	1418.7	1418.7	1423.3	1425.6
30°	1384.2	1381.9	1375.0	1372.7	1365.8	1363.5	1365.8	1370.4	1372.7	1375.0	1377.3
32.5°	1335.8	1331.2	1324.3	1322.0	1315.1	1317.4	1312.8	1319.7	1322.0	1324.3	1326.6
35°	1282.8	1278.2	1271.3	1264.4	1262.1	1259.8	1259.8	1264.4	1264.4	1271.3	1273.6
37.5°	1225.3	1223.0	1216.1	1211.4	1206.8	1206.8	1202.2	1209.1	1211.4	1216.1	1216.1
40°	1172.3	1170.0	1158.5	1153.9	1149.3	1151.6	1144.7	1151.6	1153.9	1158.5	1160.8
42.5°	1110.1	1107.8	1098.6	1094.0	1089.4	1091.7	1084.8	1091.7	1089.4	1096.3	1098.6
45°	1050.2	1047.9	1041.0	1031.8	1027.2	1029.5	1029.5	1029.5	1027.2	1034.1	1036.4
47.5°	990.3	985.7	978.8	969.6	965.0	967.3	967.3	967.3	965.0	974.2	974.2
50°	928.2	923.6	916.6	907.4	905.1	905.1	905.1	905.1	905.1	909.7	912.0
52.5°	863.7	861.4	854.5	845.2	840.6	840.6	840.6	836.0	840.6	842.9	845.2
55°	799.2	796.9	785.4	780.8	776.2	778.5	776.2	773.9	773.9	778.5	780.8
57.5°	734.7	732.4	725.5	723.2	711.7	714.0	711.7	711.7	714.0	714.0	716.3
60°	670.2	667.9	661.0	658.7	649.5	651.8	642.6	647.2	649.5	649.5	649.5
62.5°	601.1	601.1	589.6	585.0	580.4	582.7	575.8	575.8	575.8	580.4	580.4
65°	538.9	536.6	527.4	522.8	518.2	518.2	513.6	513.6	511.3	515.9	515.9
67.5°	474.4	474.4	465.2	460.6	456.0	458.3	451.4	451.4	453.7	453.7	453.7
70°	412.3	412.3	405.4	403.0	396.1	396.1	389.2	391.5	391.5	391.5	391.5
72.5°	352.4	352.4	345.5	343.2	336.3	336.3	329.3	331.7	331.7	329.3	329.3
75°	292.5	294.8	283.3	281.0	276.4	278.7	274.1	271.8	274.1	269.5	269.5
77.5°	232.6	232.6	230.3	228.0	221.1	221.1	218.8	214.2	216.5	211.9	211.9
80°	175.0	177.3	170.4	172.7	165.8	168.1	165.8	161.2	161.2	158.9	156.6
82.5°	122.1	122.1	119.8	122.1	119.8	117.5	115.2	112.9	112.9	108.2	108.2
85°	73.7	76.0	71.4	73.7	73.7	71.4	66.8	66.8	66.8	64.5	64.5
87.5°	29.9	34.5	32.2	32.2	32.2	32.2	29.9	32.2	29.9	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571969

CATALOG NUMBER: 22ID-45-L840-SWR

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1674.4	1676.7	1676.7	1676.7	1676.7	1674.4	1674.4	1674.4	1674.4	1674.4	1676.7
5°	1669.8	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1
7.5°	1660.6	1660.6	1662.9	1662.9	1662.9	1662.9	1665.2	1662.9	1665.2	1662.9	1665.2
10°	1646.7	1649.0	1651.3	1651.3	1653.6	1651.3	1653.6	1653.6	1656.0	1656.0	1656.0
12.5°	1630.6	1632.9	1632.9	1637.5	1637.5	1637.5	1639.8	1639.8	1642.1	1644.4	1644.4
15°	1607.6	1609.9	1612.2	1612.2	1616.8	1621.4	1621.4	1623.7	1626.0	1628.3	1628.3
17.5°	1579.9	1582.2	1584.6	1589.2	1593.8	1598.4	1600.7	1600.7	1605.3	1607.6	1607.6
20°	1547.7	1552.3	1556.9	1561.5	1563.8	1570.7	1573.0	1575.3	1579.9	1584.6	1584.6
22.5°	1513.2	1515.5	1522.4	1527.0	1531.6	1538.5	1540.8	1547.7	1552.3	1554.6	1556.9
25°	1471.7	1476.3	1483.2	1487.8	1492.4	1501.6	1508.5	1513.2	1520.1	1524.7	1524.7
27.5°	1425.6	1432.5	1439.5	1444.1	1451.0	1462.5	1469.4	1474.0	1483.2	1487.8	1490.1
30°	1379.6	1384.2	1393.4	1400.3	1407.2	1418.7	1427.9	1434.8	1444.1	1448.7	1451.0
32.5°	1328.9	1335.8	1345.0	1351.9	1361.1	1372.7	1381.9	1388.8	1402.6	1404.9	1407.2
35°	1275.9	1282.8	1289.8	1301.3	1310.5	1322.0	1333.5	1342.7	1349.6	1358.8	1361.1
37.5°	1220.7	1227.6	1236.8	1246.0	1255.2	1269.0	1280.5	1287.4	1299.0	1305.9	1310.5
40°	1163.1	1170.0	1181.5	1193.0	1199.9	1213.7	1225.3	1234.5	1250.6	1255.2	1255.2
42.5°	1100.9	1110.1	1117.0	1130.8	1137.7	1153.9	1165.4	1179.2	1188.4	1195.3	1197.6
45°	1041.0	1047.9	1061.7	1071.0	1077.9	1094.0	1105.5	1117.0	1128.5	1133.1	1137.7
47.5°	976.5	985.7	997.3	1001.9	1013.4	1029.5	1041.0	1052.5	1066.3	1071.0	1073.3
50°	914.3	921.3	928.2	937.4	946.6	962.7	976.5	988.0	999.6	1004.2	1006.5
52.5°	849.9	856.8	863.7	875.2	879.8	895.9	902.8	914.3	930.5	935.1	937.4
55°	783.1	792.3	801.5	808.4	813.0	826.8	836.0	849.9	859.1	863.7	868.3
57.5°	716.3	723.2	732.4	741.6	743.9	757.7	769.2	776.2	787.7	792.3	796.9
60°	651.8	658.7	665.6	667.9	674.8	688.6	700.2	704.8	716.3	720.9	723.2
62.5°	582.7	585.0	594.2	601.1	601.1	619.5	626.5	635.7	644.9	647.2	651.8
65°	518.2	522.8	522.8	527.4	534.3	545.8	550.4	562.0	568.9	571.2	573.5
67.5°	453.7	458.3	462.9	467.5	467.5	479.1	481.4	490.6	497.5	499.8	502.1
70°	391.5	391.5	398.4	403.0	400.7	410.0	414.6	419.2	428.4	430.7	433.0
72.5°	331.7	329.3	334.0	338.6	343.2	345.5	350.1	352.4	359.3	363.9	366.2
75°	271.8	274.1	274.1	276.4	274.1	276.4	283.3	290.2	294.8	297.1	301.7
77.5°	211.9	214.2	214.2	216.5	218.8	218.8	221.1	230.3	234.9	237.2	234.9
80°	156.6	158.9	158.9	161.2	163.5	165.8	165.8	170.4	177.3	179.6	179.6
82.5°	110.6	110.6	110.6	110.6	112.9	112.9	115.2	119.8	124.4	124.4	129.0
85°	66.8	66.8	64.5	66.8	64.5	66.8	69.1	73.7	76.0	76.0	78.3
87.5°	29.9	27.6	29.9	29.9	27.6	27.6	27.6	29.9	29.9	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571969

CATALOG NUMBER: 22ID-45-L840-SWR

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1676.7	1676.7	1676.7	1676.7
2.5°	1676.7	1676.7	1676.7	1676.7
5°	1672.1	1672.1	1672.1	1672.1
7.5°	1665.2	1665.2	1665.2	1665.2
10°	1656.0	1658.3	1658.3	1658.3
12.5°	1644.4	1644.4	1646.7	1646.7
15°	1630.6	1630.6	1630.6	1632.9
17.5°	1609.9	1612.2	1612.2	1612.2
20°	1586.9	1589.2	1589.2	1586.9
22.5°	1556.9	1559.2	1561.5	1561.5
25°	1527.0	1531.6	1533.9	1533.9
27.5°	1492.4	1497.0	1499.3	1499.3
30°	1455.6	1460.2	1460.2	1460.2
32.5°	1411.8	1418.7	1421.0	1421.0
35°	1365.8	1375.0	1377.3	1377.3
37.5°	1317.4	1322.0	1328.9	1328.9
40°	1264.4	1269.0	1275.9	1275.9
42.5°	1206.8	1216.1	1216.1	1220.7
45°	1144.7	1153.9	1156.2	1160.8
47.5°	1082.5	1091.7	1094.0	1096.3
50°	1015.7	1022.6	1029.5	1029.5
52.5°	948.9	953.5	958.1	962.7
55°	877.5	884.4	886.7	891.3
57.5°	803.8	813.0	815.3	819.9
60°	732.4	739.3	743.9	746.2
62.5°	661.0	665.6	667.9	672.5
65°	582.7	589.6	589.6	594.2
67.5°	511.3	515.9	518.2	520.5
70°	435.3	444.5	446.8	451.4
72.5°	368.5	377.7	377.7	382.3
75°	308.6	310.9	310.9	315.5
77.5°	244.1	246.4	248.7	251.0
80°	184.3	186.6	186.6	191.2
82.5°	131.3	131.3	131.3	133.6
85°	80.6	78.3	76.0	78.3
87.5°	32.2	32.2	34.5	29.9
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P571969
 CATALOG NUMBER: 22ID-45-L840-SWR

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	17.15	18.78	17.51	19.09	19.40	16.03	17.66	16.40	17.97	18.29
	3H	18.90	20.37	19.28	20.70	21.06	17.65	19.12	18.03	19.45	19.81
	4H	19.56	20.94	19.96	21.29	21.67	18.24	19.63	18.64	19.97	20.35
	6H	20.05	21.33	20.46	21.70	22.09	18.68	19.96	19.09	20.32	20.71
	8H	20.21	21.43	20.63	21.82	22.22	18.81	20.03	19.23	20.42	20.82
	12H	20.31	21.48	20.74	21.86	22.29	18.89	20.06	19.32	20.45	20.87
4H	2H	17.63	19.02	18.03	19.36	19.74	16.73	18.12	17.13	18.46	18.84
	3H	19.61	20.77	20.02	21.17	21.57	18.56	19.72	18.97	20.11	20.51
	4H	20.40	21.45	20.84	21.87	22.30	19.26	20.31	19.69	20.72	21.16
	6H	21.04	21.95	21.49	22.39	22.85	19.81	20.72	20.26	21.16	21.62
	8H	21.25	22.11	21.71	22.55	23.01	19.98	20.84	20.44	21.28	21.74
	12H	21.39	22.16	21.87	22.64	23.11	20.10	20.87	20.57	21.34	21.81
8H	4H	20.64	21.50	21.10	21.94	22.40	19.61	20.47	20.07	20.91	21.37
	6H	21.38	22.09	21.88	22.58	23.06	20.26	20.98	20.76	21.46	21.94
	8H	21.67	22.31	22.18	22.81	23.30	20.50	21.14	21.01	21.64	22.13
	12H	21.89	22.46	22.40	22.95	23.51	20.68	21.24	21.18	21.73	22.29
12H	4H	20.66	21.43	21.14	21.90	22.37	19.65	20.42	20.13	20.90	21.37
	6H	21.42	22.06	21.92	22.56	23.05	20.33	20.97	20.84	21.47	21.96
	8H	21.75	22.32	22.26	22.81	23.37	20.62	21.18	21.12	21.67	22.23