

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: P571965

Luminaire Tested: 22ID-45-L835-SWR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571965
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-L835-SWR
Description: 4500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED SWEEP LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4496.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

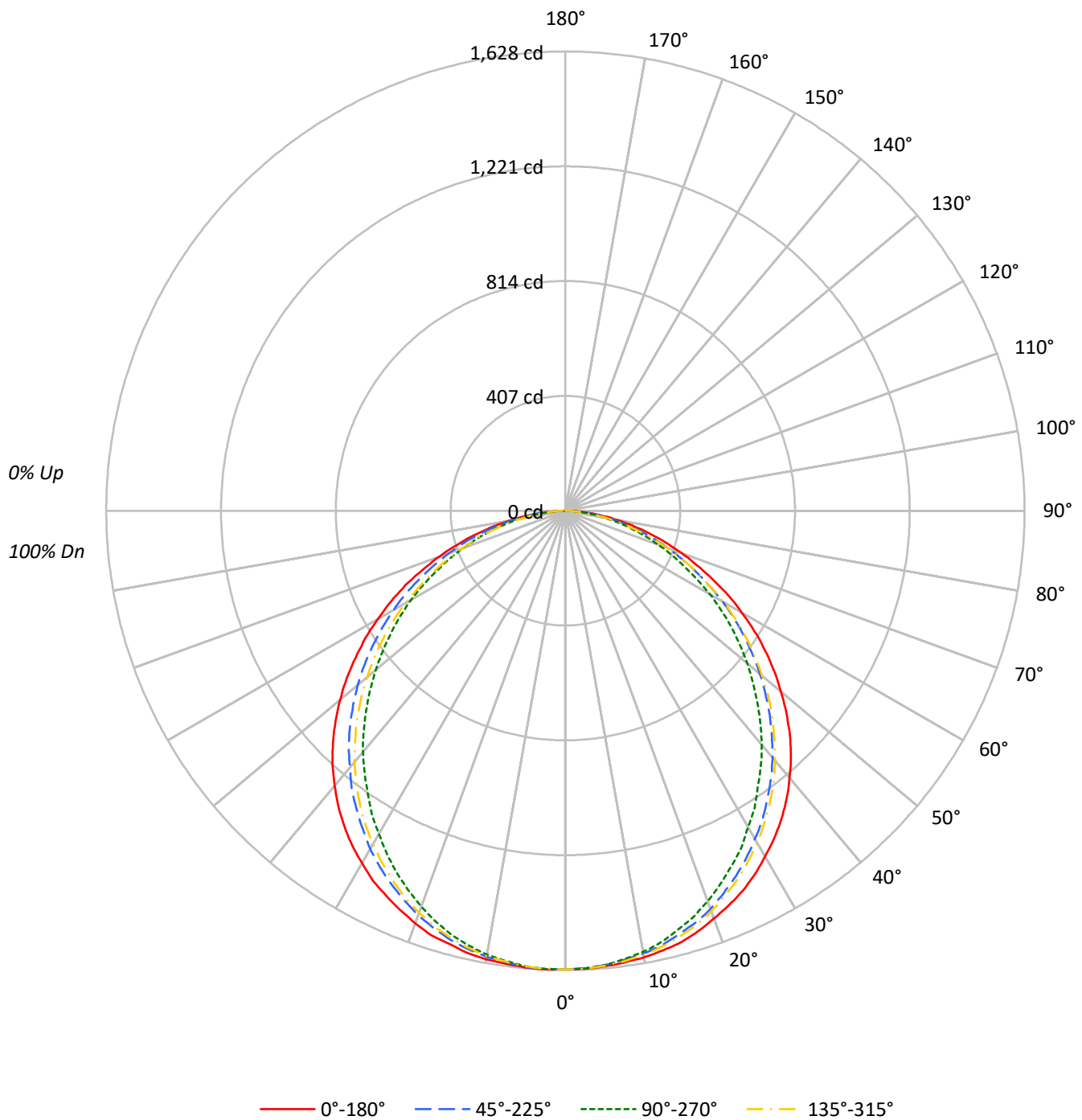
Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: 22ID-45-L835-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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4375	4375	4375	4375
5°	4379	4367	4391	4379
10°	4393	4338	4412	4369
15°	4411	4286	4430	4336
20°	4406	4220	4457	4278
25°	4416	4131	4469	4204
30°	4399	4025	4483	4108
35°	4387	3910	4490	4013
40°	4346	3805	4471	3922
45°	4283	3663	4436	3799
50°	4179	3525	4366	3674
55°	4054	3363	4264	3541
60°	3894	3185	4134	3401
65°	3668	2958	3982	3199
70°	3444	2741	3742	3022
75°	3180	2484	3483	2809
80°	2872	2180	3079	2526
85°	2343	1794	2414	2137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 4436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	3.4
10°-20°	441.8	9.8
20°-30°	666.9	14.8
30°-40°	796.3	17.7
40°-50°	812.5	18.1
50°-60°	716.5	15.9
60°-70°	529.5	11.8
70°-80°	298.6	6.6
80°-90°	80.0	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°	1262.7	28.1
0°-40°	2059.0	45.8
0°-60°	3588.0	79.8
0°-90°	4496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4496.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1621	1617	1626	1621	1621	154
15°	1583	1539	1590	1556	1583	447
25°	1487	1391	1505	1416	1487	685
35°	1335	1190	1367	1222	1335	835
45°	1126	962	1166	998	1126	867
55°	864	717	909	755	864	772
65°	576	464	625	502	576	572
75°	306	239	335	270	306	325
85°	76	58	78	69	76	89
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°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1625.7	1625.7	1625.7	1625.7	1623.5	1621.2	1621.2	1623.5	1623.5	1621.2	1623.5
5°	1621.2	1621.2	1621.2	1619.0	1616.8	1616.8	1616.8	1616.8	1614.5	1616.8	1616.8
7.5°	1614.5	1614.5	1614.5	1612.3	1610.1	1610.1	1610.1	1607.8	1605.6	1607.8	1605.6
10°	1607.8	1605.6	1605.6	1605.6	1601.1	1598.9	1598.9	1598.9	1596.7	1596.7	1594.4
12.5°	1596.7	1594.4	1594.4	1592.2	1590.0	1587.7	1585.5	1583.3	1581.0	1578.8	1578.8
15°	1583.3	1583.3	1578.8	1576.6	1572.1	1569.9	1567.6	1565.4	1560.9	1558.7	1554.2
17.5°	1563.2	1563.2	1558.7	1556.5	1552.0	1547.5	1547.5	1543.1	1538.6	1534.1	1531.9
20°	1538.6	1540.8	1538.6	1534.1	1527.4	1525.2	1523.0	1518.5	1511.8	1507.3	1502.9
22.5°	1514.0	1516.3	1511.8	1505.1	1500.6	1498.4	1493.9	1487.2	1480.5	1473.8	1467.1
25°	1487.2	1485.0	1480.5	1476.1	1469.4	1467.1	1462.7	1456.0	1444.8	1438.1	1429.2
27.5°	1453.7	1453.7	1447.0	1442.6	1431.4	1431.4	1424.7	1415.8	1406.9	1395.7	1389.0
30°	1415.8	1415.8	1411.3	1404.6	1393.5	1391.2	1384.5	1377.8	1364.4	1353.3	1344.3
32.5°	1377.8	1375.6	1371.1	1364.4	1353.3	1348.8	1342.1	1333.2	1322.0	1306.4	1299.7
35°	1335.4	1333.2	1326.5	1317.5	1308.6	1304.1	1297.4	1286.3	1275.1	1259.5	1248.3
37.5°	1288.5	1286.3	1279.6	1270.6	1259.5	1255.0	1248.3	1237.1	1221.5	1210.3	1196.9
40°	1237.1	1234.9	1230.4	1221.5	1210.3	1205.9	1196.9	1185.8	1167.9	1154.5	1143.3
42.5°	1183.5	1181.3	1174.6	1163.4	1154.5	1150.0	1141.1	1129.9	1114.3	1098.7	1083.1
45°	1125.5	1123.2	1116.5	1103.1	1096.5	1089.8	1080.8	1069.7	1056.3	1042.9	1025.0
47.5°	1063.0	1060.7	1056.3	1045.1	1031.7	1029.5	1020.5	1009.4	993.7	975.9	962.5
50°	998.2	998.2	991.5	982.6	973.6	966.9	958.0	946.8	926.7	915.6	899.9
52.5°	933.4	931.2	926.7	915.6	908.9	902.2	891.0	884.3	864.2	855.3	837.4
55°	864.2	862.0	853.0	846.3	841.9	835.2	826.2	812.8	801.7	788.3	772.7
57.5°	795.0	792.7	786.1	781.6	772.7	766.0	757.0	748.1	732.5	723.5	707.9
60°	723.5	723.5	719.1	712.4	703.4	696.7	690.0	681.1	667.7	654.3	643.1
62.5°	652.1	652.1	645.4	638.7	634.2	627.5	623.0	611.9	600.7	591.8	573.9
65°	576.1	576.1	567.2	565.0	560.5	556.0	549.3	538.2	531.5	515.8	509.1
67.5°	504.7	506.9	500.2	500.2	493.5	489.0	482.3	473.4	466.7	453.3	446.6
70°	437.7	439.9	435.5	433.2	426.5	422.1	417.6	410.9	402.0	397.5	386.3
72.5°	370.7	372.9	368.5	368.5	361.8	359.5	355.1	350.6	341.7	337.2	326.0
75°	305.9	303.7	303.7	305.9	299.2	297.0	294.8	285.8	281.4	276.9	268.0
77.5°	243.4	243.4	245.6	243.4	238.9	236.7	232.2	225.5	223.3	221.1	212.1
80°	185.3	187.6	187.6	185.3	180.9	178.6	176.4	169.7	167.5	167.5	160.8
82.5°	129.5	129.5	127.3	129.5	125.1	122.8	125.1	118.4	116.1	116.1	111.7
85°	75.9	73.7	73.7	75.9	73.7	73.7	73.7	69.2	69.2	69.2	64.8
87.5°	29.0	29.0	31.3	31.3	29.0	29.0	29.0	29.0	26.8	26.8	24.6
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°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1621.2	1621.2	1621.2	1621.2	1623.5	1621.2	1623.5	1623.5	1625.7	1623.5	1625.7
5°	1616.8	1616.8	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1616.8	1616.8
7.5°	1605.6	1605.6	1603.4	1603.4	1603.4	1603.4	1601.1	1601.1	1603.4	1603.4	1603.4
10°	1592.2	1590.0	1587.7	1587.7	1587.7	1587.7	1585.5	1587.7	1587.7	1587.7	1587.7
12.5°	1572.1	1572.1	1569.9	1567.6	1567.6	1567.6	1565.4	1567.6	1567.6	1567.6	1567.6
15°	1552.0	1549.8	1547.5	1543.1	1543.1	1540.8	1538.6	1540.8	1538.6	1538.6	1540.8
17.5°	1523.0	1523.0	1518.5	1516.3	1514.0	1511.8	1509.6	1509.6	1509.6	1509.6	1514.0
20°	1493.9	1491.7	1487.2	1478.3	1480.5	1478.3	1473.8	1476.1	1476.1	1473.8	1473.8
22.5°	1462.7	1453.7	1449.3	1440.3	1442.6	1438.1	1435.9	1438.1	1435.9	1433.6	1438.1
25°	1420.2	1415.8	1404.6	1404.6	1400.2	1397.9	1397.9	1395.7	1393.5	1391.2	1395.7
27.5°	1382.3	1373.4	1366.7	1357.7	1353.3	1353.3	1351.0	1348.8	1344.3	1348.8	1348.8
30°	1335.4	1326.5	1315.3	1310.8	1306.4	1306.4	1301.9	1299.7	1295.2	1295.2	1301.9
32.5°	1290.7	1277.3	1266.2	1259.5	1257.2	1255.0	1252.8	1243.8	1246.1	1248.3	1250.5
35°	1237.1	1226.0	1217.0	1210.3	1203.6	1201.4	1199.2	1192.5	1192.5	1190.2	1196.9
37.5°	1185.8	1172.4	1165.7	1154.5	1150.0	1145.6	1143.3	1138.9	1136.6	1138.9	1141.1
40°	1129.9	1118.8	1107.6	1096.5	1092.0	1089.8	1083.1	1083.1	1078.6	1083.1	1083.1
42.5°	1071.9	1060.7	1047.3	1038.4	1033.9	1029.5	1025.0	1022.8	1022.8	1022.8	1025.0
45°	1013.8	1000.4	987.0	978.1	973.6	971.4	964.7	962.5	958.0	962.5	964.7
47.5°	951.3	940.1	926.7	920.0	913.3	911.1	904.4	899.9	897.7	902.2	902.2
50°	888.8	877.6	866.4	857.5	850.8	848.6	841.9	841.9	837.4	841.9	841.9
52.5°	826.2	815.1	803.9	792.7	788.3	786.1	779.4	779.4	779.4	779.4	779.4
55°	763.7	748.1	741.4	730.2	725.8	723.5	721.3	714.6	716.8	716.8	716.8
57.5°	699.0	687.8	674.4	669.9	663.2	661.0	661.0	652.1	649.8	654.3	654.3
60°	634.2	625.3	611.9	605.2	600.7	600.7	594.0	585.1	582.8	591.8	591.8
62.5°	567.2	553.8	547.1	540.4	535.9	533.7	531.5	524.8	527.0	524.8	524.8
65°	504.7	491.3	486.8	480.1	475.6	473.4	471.2	466.7	462.3	464.5	464.5
67.5°	442.2	431.0	424.3	419.8	415.4	415.4	410.9	406.4	408.7	406.4	406.4
70°	381.9	372.9	364.0	361.8	357.3	357.3	355.1	352.8	350.6	348.4	348.4
72.5°	323.8	314.9	308.2	303.7	301.5	301.5	299.2	292.5	294.8	292.5	292.5
75°	263.5	256.8	254.6	250.1	247.9	247.9	245.6	241.2	243.4	238.9	234.5
77.5°	209.9	203.2	201.0	198.7	201.0	198.7	192.0	194.3	192.0	187.6	187.6
80°	160.8	154.1	154.1	149.6	147.4	147.4	145.2	145.2	142.9	140.7	140.7
82.5°	109.4	107.2	105.0	102.7	100.5	105.0	100.5	98.3	98.3	98.3	96.0
85°	62.5	62.5	60.3	60.3	58.1	60.3	58.1	55.8	58.1	58.1	53.6
87.5°	24.6	26.8	22.3	22.3	22.3	22.3	20.1	22.3	22.3	22.3	20.1
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°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1625.7	1623.5	1623.5	1623.5	1623.5	1621.2	1623.5	1623.5	1625.7	1623.5	1623.5
5°	1616.8	1614.5	1616.8	1614.5	1614.5	1616.8	1616.8	1619.0	1619.0	1621.2	1621.2
7.5°	1603.4	1603.4	1603.4	1603.4	1603.4	1605.6	1605.6	1607.8	1610.1	1610.1	1612.3
10°	1587.7	1587.7	1590.0	1587.7	1590.0	1592.2	1594.4	1596.7	1598.9	1601.1	1601.1
12.5°	1567.6	1567.6	1567.6	1572.1	1572.1	1574.3	1576.6	1581.0	1583.3	1587.7	1587.7
15°	1540.8	1540.8	1545.3	1545.3	1547.5	1552.0	1556.5	1558.7	1563.2	1567.6	1569.9
17.5°	1511.8	1511.8	1516.3	1516.3	1518.5	1525.2	1529.7	1531.9	1540.8	1545.3	1549.8
20°	1478.3	1478.3	1485.0	1482.8	1487.2	1493.9	1498.4	1505.1	1511.8	1518.5	1523.0
22.5°	1438.1	1440.3	1447.0	1447.0	1449.3	1458.2	1464.9	1471.6	1478.3	1487.2	1493.9
25°	1395.7	1397.9	1404.6	1406.9	1409.1	1418.0	1426.9	1431.4	1442.6	1453.7	1458.2
27.5°	1348.8	1353.3	1357.7	1360.0	1364.4	1375.6	1384.5	1393.5	1402.4	1413.6	1422.5
30°	1301.9	1306.4	1310.8	1313.1	1317.5	1328.7	1337.6	1348.8	1360.0	1371.1	1380.1
32.5°	1248.3	1255.0	1259.5	1263.9	1266.2	1279.6	1290.7	1301.9	1313.1	1326.5	1337.6
35°	1196.9	1203.6	1208.1	1210.3	1214.8	1228.2	1237.1	1248.3	1263.9	1277.3	1288.5
37.5°	1141.1	1145.6	1154.5	1154.5	1159.0	1174.6	1185.8	1196.9	1212.6	1226.0	1239.4
40°	1085.3	1087.5	1096.5	1098.7	1103.1	1118.8	1129.9	1145.6	1156.7	1172.4	1185.8
42.5°	1025.0	1031.7	1040.6	1045.1	1049.6	1058.5	1067.4	1085.3	1096.5	1114.3	1127.7
45°	964.7	971.4	975.9	978.1	989.3	998.2	1007.1	1025.0	1038.4	1054.0	1069.7
47.5°	904.4	908.9	915.6	924.5	929.0	937.9	944.6	962.5	975.9	993.7	1007.1
50°	841.9	848.6	853.0	855.3	864.2	875.4	884.3	899.9	911.1	929.0	944.6
52.5°	779.4	788.3	788.3	797.2	801.7	806.1	819.5	835.2	846.3	862.0	877.6
55°	719.1	723.5	730.2	732.5	739.2	743.6	752.6	768.2	781.6	797.2	812.8
57.5°	652.1	656.5	661.0	669.9	674.4	683.3	692.3	703.4	714.6	730.2	741.4
60°	587.3	594.0	598.5	605.2	605.2	616.3	627.5	638.7	647.6	663.2	674.4
62.5°	529.2	529.2	529.2	538.2	535.9	544.9	553.8	567.2	576.1	596.2	609.6
65°	466.7	469.0	469.0	475.6	473.4	482.3	489.0	502.4	511.4	522.5	535.9
67.5°	406.4	406.4	408.7	415.4	413.1	419.8	431.0	437.7	444.4	457.8	469.0
70°	343.9	346.1	348.4	355.1	352.8	361.8	368.5	372.9	381.9	390.8	399.7
72.5°	290.3	290.3	297.0	297.0	294.8	301.5	308.2	312.6	317.1	328.3	339.4
75°	238.9	236.7	241.2	241.2	238.9	241.2	245.6	252.3	256.8	265.7	274.7
77.5°	187.6	185.3	189.8	189.8	189.8	187.6	194.3	196.5	198.7	203.2	212.1
80°	138.5	136.2	140.7	140.7	136.2	138.5	142.9	145.2	145.2	149.6	156.3
82.5°	96.0	93.8	96.0	96.0	96.0	96.0	98.3	96.0	98.3	98.3	105.0
85°	58.1	55.8	58.1	55.8	55.8	53.6	58.1	55.8	55.8	58.1	58.1
87.5°	20.1	20.1	22.3	22.3	20.1	22.3	20.1	20.1	20.1	22.3	20.1
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: P571965

CATALOG NUMBER: 22ID-45-L835-SWR

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1627.9	1627.9	1625.7	1627.9	1625.7
5°	1621.2	1621.2	1623.5	1623.5	1623.5	1623.5	1623.5	1625.7	1625.7	1625.7	1623.5
7.5°	1614.5	1614.5	1614.5	1614.5	1616.8	1619.0	1619.0	1619.0	1621.2	1619.0	1619.0
10°	1603.4	1607.8	1607.8	1610.1	1610.1	1612.3	1614.5	1614.5	1614.5	1614.5	1614.5
12.5°	1592.2	1594.4	1596.7	1598.9	1601.1	1601.1	1605.6	1605.6	1605.6	1605.6	1603.4
15°	1574.3	1578.8	1581.0	1583.3	1587.7	1587.7	1592.2	1590.0	1594.4	1592.2	1590.0
17.5°	1554.2	1558.7	1563.2	1563.2	1569.9	1572.1	1576.6	1578.8	1578.8	1576.6	1572.1
20°	1529.7	1536.4	1538.6	1543.1	1547.5	1552.0	1554.2	1556.5	1558.7	1556.5	1554.2
22.5°	1500.6	1509.6	1511.8	1516.3	1523.0	1527.4	1529.7	1531.9	1534.1	1534.1	1529.7
25°	1469.4	1480.5	1480.5	1487.2	1493.9	1500.6	1505.1	1505.1	1509.6	1505.1	1505.1
27.5°	1431.4	1444.8	1451.5	1453.7	1462.7	1469.4	1473.8	1478.3	1478.3	1473.8	1473.8
30°	1393.5	1406.9	1413.6	1415.8	1426.9	1433.6	1438.1	1442.6	1442.6	1442.6	1438.1
32.5°	1351.0	1366.7	1373.4	1375.6	1389.0	1395.7	1402.4	1406.9	1406.9	1404.6	1397.9
35°	1306.4	1317.5	1328.7	1333.2	1344.3	1351.0	1362.2	1366.7	1364.4	1364.4	1357.7
37.5°	1255.0	1272.9	1279.6	1284.0	1297.4	1306.4	1317.5	1322.0	1322.0	1319.8	1315.3
40°	1201.4	1221.5	1228.2	1234.9	1248.3	1259.5	1266.2	1272.9	1272.9	1272.9	1268.4
42.5°	1147.8	1163.4	1172.4	1179.1	1194.7	1201.4	1212.6	1221.5	1221.5	1219.3	1212.6
45°	1087.5	1105.4	1114.3	1121.0	1136.6	1150.0	1156.7	1165.7	1163.4	1163.4	1154.5
47.5°	1027.2	1045.1	1054.0	1060.7	1076.4	1092.0	1096.5	1105.4	1105.4	1105.4	1096.5
50°	964.7	982.6	989.3	996.0	1013.8	1022.8	1033.9	1042.9	1042.9	1045.1	1036.2
52.5°	899.9	913.3	924.5	929.0	946.8	958.0	966.9	978.1	978.1	973.6	973.6
55°	830.7	846.3	857.5	862.0	875.4	893.2	899.9	908.9	908.9	908.9	904.4
57.5°	761.5	779.4	788.3	792.7	808.4	821.8	830.7	839.6	841.9	841.9	832.9
60°	690.0	707.9	716.8	721.3	739.2	750.3	759.3	768.2	770.4	772.7	763.7
62.5°	623.0	638.7	647.6	652.1	665.5	674.4	685.6	696.7	699.0	699.0	694.5
65°	549.3	565.0	571.7	576.1	587.3	602.9	616.3	625.3	627.5	625.3	625.3
67.5°	480.1	493.5	502.4	504.7	515.8	531.5	538.2	547.1	549.3	549.3	547.1
70°	410.9	426.5	433.2	437.7	446.6	460.0	466.7	475.6	477.9	480.1	475.6
72.5°	346.1	357.3	364.0	368.5	379.6	390.8	395.3	404.2	408.7	408.7	404.2
75°	281.4	292.5	297.0	301.5	310.4	321.6	326.0	335.0	339.4	337.2	337.2
77.5°	218.8	227.8	232.2	234.5	241.2	254.6	256.8	265.7	265.7	268.0	268.0
80°	160.8	167.5	171.9	174.2	178.6	187.6	192.0	198.7	203.2	201.0	201.0
82.5°	107.2	111.7	116.1	120.6	120.6	129.5	129.5	136.2	136.2	140.7	138.5
85°	60.3	62.5	64.8	67.0	67.0	73.7	73.7	78.2	82.6	78.2	78.2
87.5°	20.1	22.3	22.3	24.6	22.3	26.8	24.6	29.0	31.3	31.3	29.0
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: P571965

CATALOG NUMBER: 22ID-45-L835-SWR

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
5°	1623.5	1623.5	1621.2	1623.5	1623.5	1623.5	1623.5	1621.2	1621.2	1621.2	1621.2
7.5°	1619.0	1616.8	1616.8	1616.8	1614.5	1614.5	1614.5	1614.5	1612.3	1612.3	1612.3
10°	1612.3	1610.1	1610.1	1610.1	1607.8	1607.8	1605.6	1603.4	1603.4	1601.1	1598.9
12.5°	1603.4	1601.1	1598.9	1598.9	1596.7	1594.4	1592.2	1590.0	1587.7	1583.3	1583.3
15°	1587.7	1587.7	1585.5	1583.3	1578.8	1578.8	1574.3	1572.1	1567.6	1563.2	1563.2
17.5°	1572.1	1569.9	1567.6	1563.2	1558.7	1556.5	1552.0	1547.5	1543.1	1538.6	1536.4
20°	1552.0	1545.3	1547.5	1540.8	1536.4	1531.9	1525.2	1520.7	1514.0	1509.6	1505.1
22.5°	1525.2	1523.0	1520.7	1514.0	1507.3	1505.1	1493.9	1487.2	1480.5	1473.8	1469.4
25°	1496.2	1493.9	1491.7	1485.0	1476.1	1471.6	1460.4	1453.7	1442.6	1438.1	1433.6
27.5°	1462.7	1462.7	1458.2	1449.3	1442.6	1431.4	1424.7	1411.3	1402.4	1395.7	1391.2
30°	1426.9	1426.9	1422.5	1411.3	1402.4	1391.2	1384.5	1371.1	1360.0	1353.3	1344.3
32.5°	1391.2	1389.0	1384.5	1373.4	1362.2	1351.0	1337.6	1326.5	1313.1	1306.4	1297.4
35°	1348.8	1346.6	1342.1	1328.7	1319.8	1306.4	1290.7	1277.3	1263.9	1257.2	1243.8
37.5°	1304.1	1299.7	1295.2	1279.6	1268.4	1255.0	1243.8	1226.0	1212.6	1203.6	1196.9
40°	1255.0	1252.8	1246.1	1232.7	1217.0	1203.6	1188.0	1174.6	1161.2	1150.0	1141.1
42.5°	1205.9	1196.9	1192.5	1179.1	1167.9	1147.8	1136.6	1118.8	1105.4	1096.5	1083.1
45°	1150.0	1143.3	1136.6	1123.2	1107.6	1092.0	1080.8	1060.7	1047.3	1036.2	1025.0
47.5°	1087.5	1085.3	1078.6	1063.0	1049.6	1033.9	1020.5	1000.4	987.0	978.1	966.9
50°	1025.0	1022.8	1018.3	1002.7	984.8	971.4	960.2	940.1	926.7	913.3	906.6
52.5°	966.9	958.0	953.5	940.1	922.3	906.6	897.7	877.6	864.2	850.8	841.9
55°	899.9	893.2	888.8	877.6	862.0	841.9	832.9	815.1	803.9	795.0	781.6
57.5°	832.9	824.0	819.5	806.1	795.0	779.4	768.2	750.3	739.2	730.2	721.3
60°	757.0	757.0	752.6	739.2	728.0	712.4	703.4	685.6	674.4	667.7	656.5
62.5°	694.5	685.6	683.3	667.7	661.0	645.4	638.7	623.0	616.3	605.2	594.0
65°	616.3	616.3	614.1	605.2	596.2	576.1	567.2	553.8	547.1	538.2	529.2
67.5°	547.1	540.4	540.4	531.5	520.3	509.1	502.4	489.0	484.6	473.4	466.7
70°	477.9	471.2	471.2	460.0	453.3	442.2	437.7	426.5	417.6	413.1	406.4
72.5°	408.7	404.2	402.0	393.0	388.6	377.4	375.2	364.0	355.1	352.8	346.1
75°	339.4	335.0	328.3	330.5	321.6	312.6	310.4	303.7	299.2	292.5	285.8
77.5°	270.2	265.7	265.7	261.3	256.8	250.1	247.9	243.4	236.7	232.2	227.8
80°	205.4	201.0	201.0	198.7	192.0	187.6	187.6	180.9	180.9	176.4	174.2
82.5°	140.7	138.5	136.2	138.5	134.0	129.5	131.8	129.5	127.3	122.8	120.6
85°	82.6	80.4	78.2	82.6	78.2	80.4	78.2	75.9	75.9	73.7	71.5
87.5°	31.3	31.3	29.0	31.3	31.3	33.5	31.3	31.3	31.3	31.3	31.3
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: P571965

CATALOG NUMBER: 22ID-45-L835-SWR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
5°	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1619.0	1621.2
7.5°	1612.3	1610.1	1612.3	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1	1610.1
10°	1598.9	1598.9	1598.9	1598.9	1598.9	1598.9	1598.9	1598.9	1598.9	1596.7	1596.7
12.5°	1583.3	1583.3	1581.0	1581.0	1581.0	1578.8	1578.8	1581.0	1581.0	1578.8	1581.0
15°	1560.9	1563.2	1558.7	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1558.7
17.5°	1536.4	1534.1	1531.9	1531.9	1529.7	1527.4	1527.4	1529.7	1529.7	1531.9	1531.9
20°	1505.1	1505.1	1500.6	1498.4	1496.2	1493.9	1493.9	1496.2	1496.2	1496.2	1500.6
22.5°	1469.4	1467.1	1462.7	1460.4	1460.4	1456.0	1458.2	1460.4	1460.4	1460.4	1462.7
25°	1429.2	1426.9	1424.7	1422.5	1418.0	1415.8	1415.8	1420.2	1420.2	1424.7	1426.9
27.5°	1386.8	1384.5	1380.1	1375.6	1373.4	1371.1	1371.1	1375.6	1375.6	1380.1	1382.3
30°	1342.1	1339.9	1333.2	1330.9	1324.2	1322.0	1324.2	1328.7	1330.9	1333.2	1335.4
32.5°	1295.2	1290.7	1284.0	1281.8	1275.1	1277.3	1272.9	1279.6	1281.8	1284.0	1286.3
35°	1243.8	1239.4	1232.7	1226.0	1223.7	1221.5	1221.5	1226.0	1226.0	1232.7	1234.9
37.5°	1188.0	1185.8	1179.1	1174.6	1170.1	1170.1	1165.7	1172.4	1174.6	1179.1	1179.1
40°	1136.6	1134.4	1123.2	1118.8	1114.3	1116.5	1109.8	1116.5	1118.8	1123.2	1125.5
42.5°	1076.4	1074.1	1065.2	1060.7	1056.3	1058.5	1051.8	1058.5	1056.3	1063.0	1065.2
45°	1018.3	1016.1	1009.4	1000.4	996.0	998.2	998.2	998.2	996.0	1002.7	1004.9
47.5°	960.2	955.8	949.1	940.1	935.7	937.9	937.9	937.9	935.7	944.6	944.6
50°	899.9	895.5	888.8	879.8	877.6	877.6	877.6	877.6	877.6	882.1	884.3
52.5°	837.4	835.2	828.5	819.5	815.1	815.1	815.1	810.6	815.1	817.3	819.5
55°	774.9	772.7	761.5	757.0	752.6	754.8	752.6	750.3	750.3	754.8	757.0
57.5°	712.4	710.1	703.4	701.2	690.0	692.3	690.0	690.0	692.3	692.3	694.5
60°	649.8	647.6	640.9	638.7	629.7	632.0	623.0	627.5	629.7	629.7	629.7
62.5°	582.8	582.8	571.7	567.2	562.7	565.0	558.3	558.3	558.3	562.7	562.7
65°	522.5	520.3	511.4	506.9	502.4	502.4	498.0	498.0	495.7	500.2	500.2
67.5°	460.0	460.0	451.1	446.6	442.2	444.4	437.7	437.7	439.9	439.9	439.9
70°	399.7	399.7	393.0	390.8	384.1	384.1	377.4	379.6	379.6	379.6	379.6
72.5°	341.7	341.7	335.0	332.7	326.0	326.0	319.3	321.6	321.6	319.3	319.3
75°	283.6	285.8	274.7	272.4	268.0	270.2	265.7	263.5	265.7	261.3	261.3
77.5°	225.5	225.5	223.3	221.1	214.4	214.4	212.1	207.7	209.9	205.4	205.4
80°	169.7	171.9	165.2	167.5	160.8	163.0	160.8	156.3	156.3	154.1	151.9
82.5°	118.4	118.4	116.1	118.4	116.1	113.9	111.7	109.4	109.4	105.0	105.0
85°	71.5	73.7	69.2	71.5	71.5	69.2	64.8	64.8	64.8	62.5	62.5
87.5°	29.0	33.5	31.3	31.3	31.3	31.3	29.0	31.3	29.0	26.8	26.8
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: P571965

CATALOG NUMBER: 22ID-45-L835-SWR

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1623.5	1625.7	1625.7	1625.7	1625.7	1623.5	1623.5	1623.5	1623.5	1623.5	1625.7
5°	1619.0	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2
7.5°	1610.1	1610.1	1612.3	1612.3	1612.3	1612.3	1614.5	1612.3	1614.5	1612.3	1614.5
10°	1596.7	1598.9	1601.1	1601.1	1603.4	1601.1	1603.4	1603.4	1605.6	1605.6	1605.6
12.5°	1581.0	1583.3	1583.3	1587.7	1587.7	1587.7	1590.0	1590.0	1592.2	1594.4	1594.4
15°	1558.7	1560.9	1563.2	1563.2	1567.6	1572.1	1572.1	1574.3	1576.6	1578.8	1578.8
17.5°	1531.9	1534.1	1536.4	1540.8	1545.3	1549.8	1552.0	1552.0	1556.5	1558.7	1558.7
20°	1500.6	1505.1	1509.6	1514.0	1516.3	1523.0	1525.2	1527.4	1531.9	1536.4	1536.4
22.5°	1467.1	1469.4	1476.1	1480.5	1485.0	1491.7	1493.9	1500.6	1505.1	1507.3	1509.6
25°	1426.9	1431.4	1438.1	1442.6	1447.0	1456.0	1462.7	1467.1	1473.8	1478.3	1478.3
27.5°	1382.3	1389.0	1395.7	1400.2	1406.9	1418.0	1424.7	1429.2	1438.1	1442.6	1444.8
30°	1337.6	1342.1	1351.0	1357.7	1364.4	1375.6	1384.5	1391.2	1400.2	1404.6	1406.9
32.5°	1288.5	1295.2	1304.1	1310.8	1319.8	1330.9	1339.9	1346.6	1360.0	1362.2	1364.4
35°	1237.1	1243.8	1250.5	1261.7	1270.6	1281.8	1293.0	1301.9	1308.6	1317.5	1319.8
37.5°	1183.5	1190.2	1199.2	1208.1	1217.0	1230.4	1241.6	1248.3	1259.5	1266.2	1270.6
40°	1127.7	1134.4	1145.6	1156.7	1163.4	1176.8	1188.0	1196.9	1212.6	1217.0	1217.0
42.5°	1067.4	1076.4	1083.1	1096.5	1103.1	1118.8	1129.9	1143.3	1152.3	1159.0	1161.2
45°	1009.4	1016.1	1029.5	1038.4	1045.1	1060.7	1071.9	1083.1	1094.2	1098.7	1103.1
47.5°	946.8	955.8	966.9	971.4	982.6	998.2	1009.4	1020.5	1033.9	1038.4	1040.6
50°	886.5	893.2	899.9	908.9	917.8	933.4	946.8	958.0	969.2	973.6	975.9
52.5°	824.0	830.7	837.4	848.6	853.0	868.7	875.4	886.5	902.2	906.6	908.9
55°	759.3	768.2	777.1	783.8	788.3	801.7	810.6	824.0	832.9	837.4	841.9
57.5°	694.5	701.2	710.1	719.1	721.3	734.7	745.9	752.6	763.7	768.2	772.7
60°	632.0	638.7	645.4	647.6	654.3	667.7	678.9	683.3	694.5	699.0	701.2
62.5°	565.0	567.2	576.1	582.8	582.8	600.7	607.4	616.3	625.3	627.5	632.0
65°	502.4	506.9	506.9	511.4	518.1	529.2	533.7	544.9	551.6	553.8	556.0
67.5°	439.9	444.4	448.9	453.3	453.3	464.5	466.7	475.6	482.3	484.6	486.8
70°	379.6	379.6	386.3	390.8	388.6	397.5	402.0	406.4	415.4	417.6	419.8
72.5°	321.6	319.3	323.8	328.3	332.7	335.0	339.4	341.7	348.4	352.8	355.1
75°	263.5	265.7	265.7	268.0	265.7	268.0	274.7	281.4	285.8	288.1	292.5
77.5°	205.4	207.7	207.7	209.9	212.1	212.1	214.4	223.3	227.8	230.0	227.8
80°	151.9	154.1	154.1	156.3	158.5	160.8	160.8	165.2	171.9	174.2	174.2
82.5°	107.2	107.2	107.2	107.2	109.4	109.4	111.7	116.1	120.6	120.6	125.1
85°	64.8	64.8	62.5	64.8	62.5	64.8	67.0	71.5	73.7	73.7	75.9
87.5°	29.0	26.8	29.0	29.0	26.8	26.8	26.8	29.0	29.0	31.3	31.3
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: P571965

CATALOG NUMBER: 22ID-45-L835-SWR

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7
2.5°	1625.7	1625.7	1625.7	1625.7
5°	1621.2	1621.2	1621.2	1621.2
7.5°	1614.5	1614.5	1614.5	1614.5
10°	1605.6	1607.8	1607.8	1607.8
12.5°	1594.4	1594.4	1596.7	1596.7
15°	1581.0	1581.0	1581.0	1583.3
17.5°	1560.9	1563.2	1563.2	1563.2
20°	1538.6	1540.8	1540.8	1538.6
22.5°	1509.6	1511.8	1514.0	1514.0
25°	1480.5	1485.0	1487.2	1487.2
27.5°	1447.0	1451.5	1453.7	1453.7
30°	1411.3	1415.8	1415.8	1415.8
32.5°	1368.9	1375.6	1377.8	1377.8
35°	1324.2	1333.2	1335.4	1335.4
37.5°	1277.3	1281.8	1288.5	1288.5
40°	1226.0	1230.4	1237.1	1237.1
42.5°	1170.1	1179.1	1179.1	1183.5
45°	1109.8	1118.8	1121.0	1125.5
47.5°	1049.6	1058.5	1060.7	1063.0
50°	984.8	991.5	998.2	998.2
52.5°	920.0	924.5	929.0	933.4
55°	850.8	857.5	859.7	864.2
57.5°	779.4	788.3	790.5	795.0
60°	710.1	716.8	721.3	723.5
62.5°	640.9	645.4	647.6	652.1
65°	565.0	571.7	571.7	576.1
67.5°	495.7	500.2	502.4	504.7
70°	422.1	431.0	433.2	437.7
72.5°	357.3	366.2	366.2	370.7
75°	299.2	301.5	301.5	305.9
77.5°	236.7	238.9	241.2	243.4
80°	178.6	180.9	180.9	185.3
82.5°	127.3	127.3	127.3	129.5
85°	78.2	75.9	73.7	75.9
87.5°	31.3	31.3	33.5	29.0
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P571965
CATALOG NUMBER: 22ID-45-L835-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	17.04	18.67	17.41	18.98	19.30	15.92	17.55	16.29	17.87	18.18
	3H	18.79	20.26	19.17	20.59	20.95	17.54	19.01	17.92	19.34	19.70
	4H	19.45	20.84	19.85	21.18	21.56	18.13	19.52	18.53	19.87	20.24
	6H	19.94	21.23	20.35	21.59	21.98	18.57	19.85	18.98	20.22	20.61
	8H	20.10	21.33	20.53	21.72	22.11	18.70	19.93	19.12	20.31	20.71
	12H	20.20	21.37	20.63	21.76	22.18	18.78	19.96	19.21	20.34	20.77
4H	2H	17.52	18.91	17.92	19.26	19.63	16.62	18.01	17.02	18.36	18.73
	3H	19.50	20.66	19.91	21.06	21.46	18.45	19.61	18.86	20.01	20.41
	4H	20.30	21.35	20.73	21.76	22.19	19.16	20.20	19.59	20.62	21.05
	6H	20.93	21.84	21.38	22.29	22.74	19.70	20.62	20.15	21.06	21.51
	8H	21.14	22.00	21.60	22.44	22.91	19.87	20.73	20.33	21.17	21.64
	12H	21.29	22.06	21.77	22.53	23.00	19.99	20.76	20.47	21.23	21.70
8H	4H	20.53	21.39	20.99	21.83	22.30	19.50	20.36	19.96	20.80	21.27
	6H	21.27	21.99	21.77	22.48	22.95	20.16	20.87	20.65	21.36	21.83
	8H	21.56	22.20	22.07	22.71	23.19	20.39	21.03	20.90	21.54	22.02
	12H	21.78	22.35	22.29	22.84	23.40	20.57	21.13	21.07	21.62	22.19
12H	4H	20.55	21.32	21.03	21.80	22.27	19.55	20.32	20.03	20.79	21.26
	6H	21.31	21.95	21.82	22.46	22.94	20.22	20.86	20.73	21.37	21.85
	8H	21.65	22.21	22.15	22.70	23.26	20.51	21.08	21.02	21.57	22.13