

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: P571961

Luminaire Tested: 22ID-45-L830-SWR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571961
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-L830-SWR
Description: 4500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED SWEEP LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4426.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

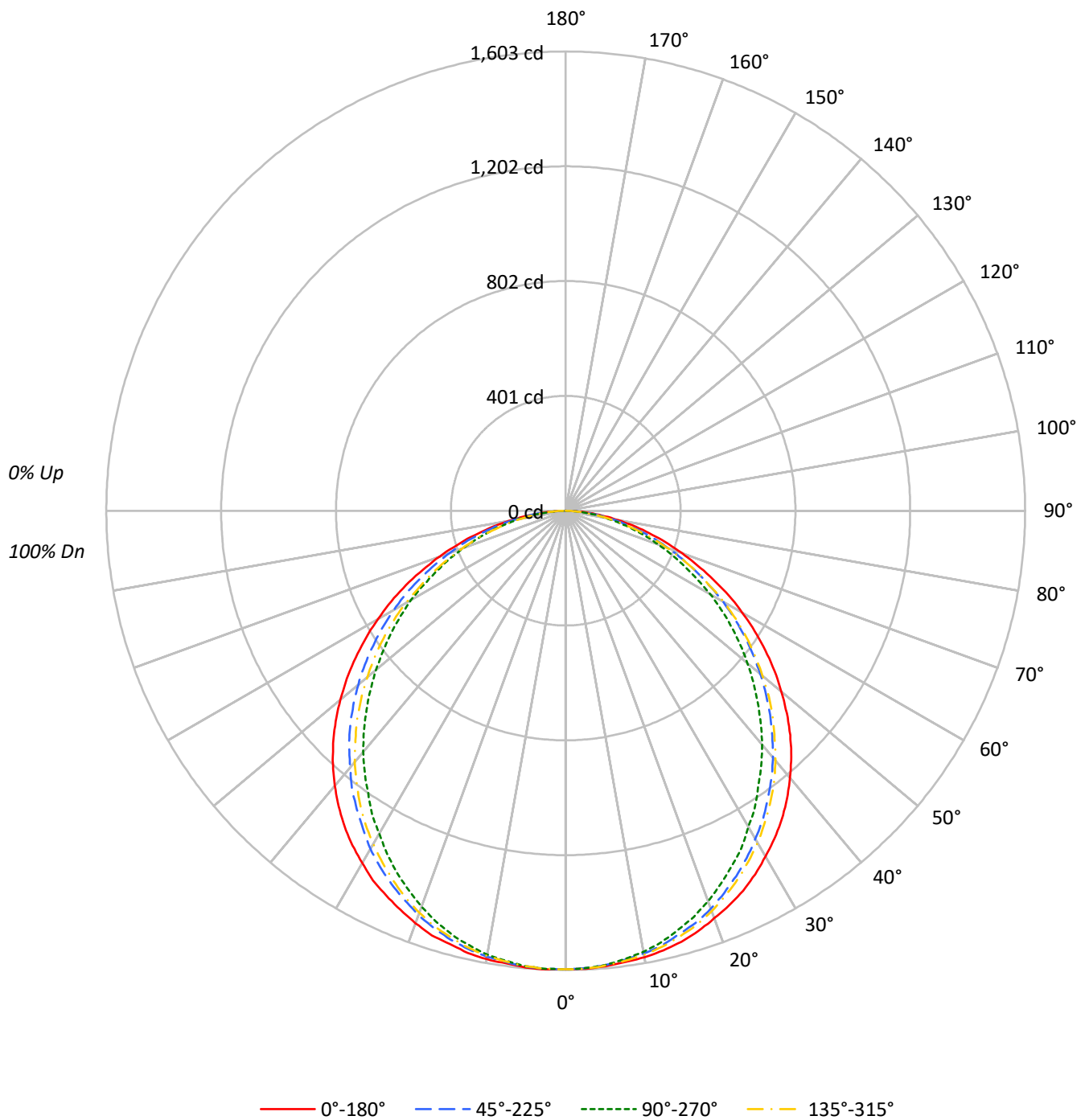
Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	4307	4307	4307	4307
5°	4311	4299	4323	4311
10°	4325	4271	4343	4301
15°	4342	4220	4361	4269
20°	4337	4155	4388	4212
25°	4347	4067	4399	4138
30°	4331	3962	4413	4044
35°	4319	3849	4420	3950
40°	4278	3745	4402	3861
45°	4217	3606	4367	3740
50°	4114	3470	4298	3617
55°	3992	3311	4198	3486
60°	3834	3136	4070	3348
65°	3612	2912	3919	3149
70°	3390	2698	3684	2975
75°	3132	2445	3428	2766
80°	2828	2146	3033	2487
85°	2306	1766	2374	2103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 4367 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.4
10°-20°	434.9	9.8
20°-30°	656.5	14.8
30°-40°	783.9	17.7
40°-50°	799.8	18.1
50°-60°	705.4	15.9
60°-70°	521.3	11.8
70°-80°	293.9	6.6
80°-90°	78.7	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°	1243.0	28.1
0°-40°	2026.9	45.8
0°-60°	3532.1	79.8
0°-90°	4426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4426.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1600	1600	1600	1600	1600	
5°	1596	1592	1600	1596	1596	152
15°	1559	1515	1565	1532	1559	440
25°	1464	1370	1482	1394	1464	674
35°	1315	1172	1345	1202	1315	822
45°	1108	948	1148	983	1108	853
55°	851	706	895	743	851	760
65°	567	457	616	495	567	563
75°	301	235	330	266	301	320
85°	75	57	77	68	75	88
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°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1600.4	1600.4	1600.4	1598.2	1596.0	1596.0	1598.2	1598.2	1596.0	1598.2
5°	1596.0	1596.0	1596.0	1593.8	1591.6	1591.6	1591.6	1591.6	1589.4	1591.6	1591.6
7.5°	1589.4	1589.4	1589.4	1587.2	1585.0	1585.0	1585.0	1582.8	1580.6	1582.8	1580.6
10°	1582.8	1580.6	1580.6	1580.6	1576.2	1574.0	1574.0	1574.0	1571.8	1571.8	1569.6
12.5°	1571.8	1569.6	1569.6	1567.4	1565.2	1563.0	1560.8	1558.6	1556.4	1554.2	1554.2
15°	1558.6	1558.6	1554.2	1552.0	1547.6	1545.4	1543.2	1541.0	1536.6	1534.4	1530.0
17.5°	1538.8	1538.8	1534.4	1532.2	1527.8	1523.4	1523.4	1519.0	1514.6	1510.3	1508.1
20°	1514.6	1516.8	1514.6	1510.3	1503.7	1501.5	1499.3	1494.9	1488.3	1483.9	1479.5
22.5°	1490.5	1492.7	1488.3	1481.7	1477.3	1475.1	1470.7	1464.1	1457.5	1450.9	1444.3
25°	1464.1	1461.9	1457.5	1453.1	1446.5	1444.3	1439.9	1433.3	1422.3	1415.7	1406.9
27.5°	1431.1	1431.1	1424.5	1420.1	1409.1	1409.1	1402.5	1393.7	1384.9	1374.0	1367.4
30°	1393.7	1393.7	1389.3	1382.7	1371.8	1369.6	1363.0	1356.4	1343.2	1332.2	1323.4
32.5°	1356.4	1354.2	1349.8	1343.2	1332.2	1327.8	1321.2	1312.4	1301.4	1286.0	1279.4
35°	1314.6	1312.4	1305.8	1297.0	1288.2	1283.8	1277.2	1266.2	1255.2	1239.9	1228.9
37.5°	1268.4	1266.2	1259.6	1250.8	1239.9	1235.5	1228.9	1217.9	1202.5	1191.5	1178.3
40°	1217.9	1215.7	1211.3	1202.5	1191.5	1187.1	1178.3	1167.3	1149.7	1136.5	1125.5
42.5°	1165.1	1162.9	1156.3	1145.3	1136.5	1132.1	1123.3	1112.4	1097.0	1081.6	1066.2
45°	1108.0	1105.8	1099.2	1086.0	1079.4	1072.8	1064.0	1053.0	1039.8	1026.6	1009.0
47.5°	1046.4	1044.2	1039.8	1028.8	1015.6	1013.4	1004.6	993.6	978.3	960.7	947.5
50°	982.7	982.7	976.1	967.3	958.5	951.9	943.1	932.1	912.3	901.3	885.9
52.5°	918.9	916.7	912.3	901.3	894.7	888.1	877.1	870.5	850.8	842.0	824.4
55°	850.8	848.6	839.8	833.2	828.8	822.2	813.4	800.2	789.2	776.0	760.6
57.5°	782.6	780.4	773.8	769.4	760.6	754.0	745.2	736.4	721.1	712.3	696.9
60°	712.3	712.3	707.9	701.3	692.5	685.9	679.3	670.5	657.3	644.1	633.1
62.5°	641.9	641.9	635.3	628.7	624.3	617.7	613.3	602.3	591.4	582.6	565.0
65°	567.2	567.2	558.4	556.2	551.8	547.4	540.8	529.8	523.2	507.8	501.2
67.5°	496.8	499.0	492.4	492.4	485.8	481.4	474.8	466.0	459.5	446.3	439.7
70°	430.9	433.1	428.7	426.5	419.9	415.5	411.1	404.5	395.7	391.3	380.3
72.5°	364.9	367.1	362.7	362.7	356.1	353.9	349.5	345.1	336.3	331.9	321.0
75°	301.2	299.0	299.0	301.2	294.6	292.4	290.2	281.4	277.0	272.6	263.8
77.5°	239.6	239.6	241.8	239.6	235.2	233.0	228.6	222.0	219.8	217.6	208.8
80°	182.5	184.7	184.7	182.5	178.1	175.9	173.7	167.1	164.9	164.9	158.3
82.5°	127.5	127.5	125.3	127.5	123.1	120.9	123.1	116.5	114.3	114.3	109.9
85°	74.7	72.5	72.5	74.7	72.5	72.5	72.5	68.1	68.1	68.1	63.8
87.5°	28.6	28.6	30.8	30.8	28.6	28.6	28.6	28.6	26.4	26.4	24.2
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°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1596.0	1596.0	1596.0	1596.0	1598.2	1596.0	1598.2	1598.2	1600.4	1598.2	1600.4
5°	1591.6	1591.6	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1591.6	1591.6
7.5°	1580.6	1580.6	1578.4	1578.4	1578.4	1578.4	1576.2	1576.2	1578.4	1578.4	1578.4
10°	1567.4	1565.2	1563.0	1563.0	1563.0	1563.0	1560.8	1563.0	1563.0	1563.0	1563.0
12.5°	1547.6	1547.6	1545.4	1543.2	1543.2	1543.2	1541.0	1543.2	1543.2	1543.2	1543.2
15°	1527.8	1525.6	1523.4	1519.0	1519.0	1516.8	1514.6	1516.8	1514.6	1514.6	1516.8
17.5°	1499.3	1499.3	1494.9	1492.7	1490.5	1488.3	1486.1	1486.1	1486.1	1486.1	1490.5
20°	1470.7	1468.5	1464.1	1455.3	1457.5	1455.3	1450.9	1453.1	1453.1	1450.9	1450.9
22.5°	1439.9	1431.1	1426.7	1417.9	1420.1	1415.7	1413.5	1415.7	1413.5	1411.3	1415.7
25°	1398.1	1393.7	1382.7	1382.7	1378.4	1376.2	1376.2	1374.0	1371.8	1369.6	1374.0
27.5°	1360.8	1352.0	1345.4	1336.6	1332.2	1332.2	1330.0	1327.8	1323.4	1327.8	1327.8
30°	1314.6	1305.8	1294.8	1290.4	1286.0	1286.0	1281.6	1279.4	1275.0	1275.0	1281.6
32.5°	1270.6	1257.4	1246.5	1239.9	1237.7	1235.5	1233.3	1224.5	1226.7	1228.9	1231.1
35°	1217.9	1206.9	1198.1	1191.5	1184.9	1182.7	1180.5	1173.9	1173.9	1171.7	1178.3
37.5°	1167.3	1154.1	1147.5	1136.5	1132.1	1127.7	1125.5	1121.1	1118.9	1121.1	1123.3
40°	1112.4	1101.4	1090.4	1079.4	1075.0	1072.8	1066.2	1066.2	1061.8	1066.2	1066.2
42.5°	1055.2	1044.2	1031.0	1022.2	1017.8	1013.4	1009.0	1006.8	1006.8	1006.8	1009.0
45°	998.0	984.9	971.7	962.9	958.5	956.3	949.7	947.5	943.1	947.5	949.7
47.5°	936.5	925.5	912.3	905.7	899.1	896.9	890.3	885.9	883.7	888.1	888.1
50°	874.9	863.9	853.0	844.2	837.6	835.4	828.8	828.8	824.4	828.8	828.8
52.5°	813.4	802.4	791.4	780.4	776.0	773.8	767.2	767.2	767.2	767.2	767.2
55°	751.8	736.4	729.8	718.9	714.5	712.3	710.1	703.5	705.7	705.7	705.7
57.5°	688.1	677.1	663.9	659.5	652.9	650.7	650.7	641.9	639.7	644.1	644.1
60°	624.3	615.5	602.3	595.7	591.4	591.4	584.8	576.0	573.8	582.6	582.6
62.5°	558.4	545.2	538.6	532.0	527.6	525.4	523.2	516.6	518.8	516.6	516.6
65°	496.8	483.6	479.2	472.6	468.2	466.0	463.8	459.5	455.1	457.3	457.3
67.5°	435.3	424.3	417.7	413.3	408.9	408.9	404.5	400.1	402.3	400.1	400.1
70°	375.9	367.1	358.3	356.1	351.7	351.7	349.5	347.3	345.1	342.9	342.9
72.5°	318.8	310.0	303.4	299.0	296.8	296.8	294.6	288.0	290.2	288.0	288.0
75°	259.4	252.8	250.6	246.2	244.0	244.0	241.8	237.4	239.6	235.2	230.8
77.5°	206.6	200.0	197.8	195.7	197.8	195.7	189.1	191.3	189.1	184.7	184.7
80°	158.3	151.7	151.7	147.3	145.1	145.1	142.9	142.9	140.7	138.5	138.5
82.5°	107.7	105.5	103.3	101.1	98.9	103.3	98.9	96.7	96.7	96.7	94.5
85°	61.6	61.6	59.4	59.4	57.2	59.4	57.2	55.0	57.2	57.2	52.8
87.5°	24.2	26.4	22.0	22.0	22.0	22.0	19.8	22.0	22.0	22.0	19.8
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°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1598.2	1598.2	1598.2	1598.2	1596.0	1598.2	1598.2	1600.4	1598.2	1598.2
5°	1591.6	1589.4	1591.6	1589.4	1589.4	1591.6	1591.6	1593.8	1593.8	1596.0	1596.0
7.5°	1578.4	1578.4	1578.4	1578.4	1578.4	1580.6	1580.6	1582.8	1585.0	1585.0	1587.2
10°	1563.0	1563.0	1565.2	1563.0	1565.2	1567.4	1569.6	1571.8	1574.0	1576.2	1576.2
12.5°	1543.2	1543.2	1543.2	1547.6	1547.6	1549.8	1552.0	1556.4	1558.6	1563.0	1563.0
15°	1516.8	1516.8	1521.2	1521.2	1523.4	1527.8	1532.2	1534.4	1538.8	1543.2	1545.4
17.5°	1488.3	1488.3	1492.7	1492.7	1494.9	1501.5	1505.9	1508.1	1516.8	1521.2	1525.6
20°	1455.3	1455.3	1461.9	1459.7	1464.1	1470.7	1475.1	1481.7	1488.3	1494.9	1499.3
22.5°	1415.7	1417.9	1424.5	1424.5	1426.7	1435.5	1442.1	1448.7	1455.3	1464.1	1470.7
25°	1374.0	1376.2	1382.7	1384.9	1387.1	1395.9	1404.7	1409.1	1420.1	1431.1	1435.5
27.5°	1327.8	1332.2	1336.6	1338.8	1343.2	1354.2	1363.0	1371.8	1380.6	1391.5	1400.3
30°	1281.6	1286.0	1290.4	1292.6	1297.0	1308.0	1316.8	1327.8	1338.8	1349.8	1358.6
32.5°	1228.9	1235.5	1239.9	1244.3	1246.5	1259.6	1270.6	1281.6	1292.6	1305.8	1316.8
35°	1178.3	1184.9	1189.3	1191.5	1195.9	1209.1	1217.9	1228.9	1244.3	1257.4	1268.4
37.5°	1123.3	1127.7	1136.5	1136.5	1140.9	1156.3	1167.3	1178.3	1193.7	1206.9	1220.1
40°	1068.4	1070.6	1079.4	1081.6	1086.0	1101.4	1112.4	1127.7	1138.7	1154.1	1167.3
42.5°	1009.0	1015.6	1024.4	1028.8	1033.2	1042.0	1050.8	1068.4	1079.4	1097.0	1110.2
45°	949.7	956.3	960.7	962.9	973.9	982.7	991.4	1009.0	1022.2	1037.6	1053.0
47.5°	890.3	894.7	901.3	910.1	914.5	923.3	929.9	947.5	960.7	978.3	991.4
50°	828.8	835.4	839.8	842.0	850.8	861.7	870.5	885.9	896.9	914.5	929.9
52.5°	767.2	776.0	776.0	784.8	789.2	793.6	806.8	822.2	833.2	848.6	863.9
55°	707.9	712.3	718.9	721.1	727.6	732.0	740.8	756.2	769.4	784.8	800.2
57.5°	641.9	646.3	650.7	659.5	663.9	672.7	681.5	692.5	703.5	718.9	729.8
60°	578.2	584.8	589.2	595.7	595.7	606.7	617.7	628.7	637.5	652.9	663.9
62.5°	521.0	521.0	521.0	529.8	527.6	536.4	545.2	558.4	567.2	587.0	600.1
65°	459.5	461.6	461.6	468.2	466.0	474.8	481.4	494.6	503.4	514.4	527.6
67.5°	400.1	400.1	402.3	408.9	406.7	413.3	424.3	430.9	437.5	450.7	461.6
70°	338.5	340.7	342.9	349.5	347.3	356.1	362.7	367.1	375.9	384.7	393.5
72.5°	285.8	285.8	292.4	292.4	290.2	296.8	303.4	307.8	312.2	323.2	334.1
75°	235.2	233.0	237.4	237.4	235.2	237.4	241.8	248.4	252.8	261.6	270.4
77.5°	184.7	182.5	186.9	186.9	186.9	184.7	191.3	193.5	195.7	200.0	208.8
80°	136.3	134.1	138.5	138.5	134.1	136.3	140.7	142.9	142.9	147.3	153.9
82.5°	94.5	92.3	94.5	94.5	94.5	94.5	96.7	94.5	96.7	96.7	103.3
85°	57.2	55.0	57.2	55.0	55.0	52.8	57.2	55.0	55.0	57.2	57.2
87.5°	19.8	19.8	22.0	22.0	19.8	22.0	19.8	19.8	19.8	22.0	19.8
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: P571961

CATALOG NUMBER: 22ID-45-L830-SWR

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1602.6	1602.6	1600.4	1602.6	1600.4
5°	1596.0	1596.0	1598.2	1598.2	1598.2	1598.2	1598.2	1600.4	1600.4	1600.4	1598.2
7.5°	1589.4	1589.4	1589.4	1589.4	1591.6	1593.8	1593.8	1593.8	1596.0	1593.8	1593.8
10°	1578.4	1582.8	1582.8	1585.0	1585.0	1587.2	1589.4	1589.4	1589.4	1589.4	1589.4
12.5°	1567.4	1569.6	1571.8	1574.0	1576.2	1576.2	1580.6	1580.6	1580.6	1580.6	1578.4
15°	1549.8	1554.2	1556.4	1558.6	1563.0	1563.0	1567.4	1565.2	1569.6	1567.4	1565.2
17.5°	1530.0	1534.4	1538.8	1538.8	1545.4	1547.6	1552.0	1554.2	1554.2	1552.0	1547.6
20°	1505.9	1512.5	1514.6	1519.0	1523.4	1527.8	1530.0	1532.2	1534.4	1532.2	1530.0
22.5°	1477.3	1486.1	1488.3	1492.7	1499.3	1503.7	1505.9	1508.1	1510.3	1510.3	1505.9
25°	1446.5	1457.5	1457.5	1464.1	1470.7	1477.3	1481.7	1481.7	1486.1	1481.7	1481.7
27.5°	1409.1	1422.3	1428.9	1431.1	1439.9	1446.5	1450.9	1455.3	1455.3	1450.9	1450.9
30°	1371.8	1384.9	1391.5	1393.7	1404.7	1411.3	1415.7	1420.1	1420.1	1420.1	1415.7
32.5°	1330.0	1345.4	1352.0	1354.2	1367.4	1374.0	1380.6	1384.9	1384.9	1382.7	1376.2
35°	1286.0	1297.0	1308.0	1312.4	1323.4	1330.0	1341.0	1345.4	1343.2	1343.2	1336.6
37.5°	1235.5	1253.0	1259.6	1264.0	1277.2	1286.0	1297.0	1301.4	1301.4	1299.2	1294.8
40°	1182.7	1202.5	1209.1	1215.7	1228.9	1239.9	1246.5	1253.0	1253.0	1253.0	1248.7
42.5°	1129.9	1145.3	1154.1	1160.7	1176.1	1182.7	1193.7	1202.5	1202.5	1200.3	1193.7
45°	1070.6	1088.2	1097.0	1103.6	1118.9	1132.1	1138.7	1147.5	1145.3	1145.3	1136.5
47.5°	1011.2	1028.8	1037.6	1044.2	1059.6	1075.0	1079.4	1088.2	1088.2	1088.2	1079.4
50°	949.7	967.3	973.9	980.5	998.0	1006.8	1017.8	1026.6	1026.6	1028.8	1020.0
52.5°	885.9	899.1	910.1	914.5	932.1	943.1	951.9	962.9	962.9	958.5	958.5
55°	817.8	833.2	844.2	848.6	861.7	879.3	885.9	894.7	894.7	894.7	890.3
57.5°	749.6	767.2	776.0	780.4	795.8	809.0	817.8	826.6	828.8	828.8	820.0
60°	679.3	696.9	705.7	710.1	727.6	738.6	747.4	756.2	758.4	760.6	751.8
62.5°	613.3	628.7	637.5	641.9	655.1	663.9	674.9	685.9	688.1	688.1	683.7
65°	540.8	556.2	562.8	567.2	578.2	593.5	606.7	615.5	617.7	615.5	615.5
67.5°	472.6	485.8	494.6	496.8	507.8	523.2	529.8	538.6	540.8	540.8	538.6
70°	404.5	419.9	426.5	430.9	439.7	452.9	459.5	468.2	470.4	472.6	468.2
72.5°	340.7	351.7	358.3	362.7	373.7	384.7	389.1	397.9	402.3	402.3	397.9
75°	277.0	288.0	292.4	296.8	305.6	316.6	321.0	329.7	334.1	331.9	331.9
77.5°	215.4	224.2	228.6	230.8	237.4	250.6	252.8	261.6	261.6	263.8	263.8
80°	158.3	164.9	169.3	171.5	175.9	184.7	189.1	195.7	200.0	197.8	197.8
82.5°	105.5	109.9	114.3	118.7	118.7	127.5	127.5	134.1	134.1	138.5	136.3
85°	59.4	61.6	63.8	65.9	65.9	72.5	72.5	76.9	81.3	76.9	76.9
87.5°	19.8	22.0	22.0	24.2	22.0	26.4	24.2	28.6	30.8	30.8	28.6
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: P571961

CATALOG NUMBER: 22ID-45-L830-SWR

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
5°	1598.2	1598.2	1596.0	1598.2	1598.2	1598.2	1598.2	1596.0	1596.0	1596.0	1596.0
7.5°	1593.8	1591.6	1591.6	1591.6	1589.4	1589.4	1589.4	1589.4	1587.2	1587.2	1587.2
10°	1587.2	1585.0	1585.0	1585.0	1582.8	1582.8	1580.6	1578.4	1578.4	1576.2	1574.0
12.5°	1578.4	1576.2	1574.0	1574.0	1571.8	1569.6	1567.4	1565.2	1563.0	1558.6	1558.6
15°	1563.0	1563.0	1560.8	1558.6	1554.2	1554.2	1549.8	1547.6	1543.2	1538.8	1538.8
17.5°	1547.6	1545.4	1543.2	1538.8	1534.4	1532.2	1527.8	1523.4	1519.0	1514.6	1512.5
20°	1527.8	1521.2	1523.4	1516.8	1512.5	1508.1	1501.5	1497.1	1490.5	1486.1	1481.7
22.5°	1501.5	1499.3	1497.1	1490.5	1483.9	1481.7	1470.7	1464.1	1457.5	1450.9	1446.5
25°	1472.9	1470.7	1468.5	1461.9	1453.1	1448.7	1437.7	1431.1	1420.1	1415.7	1411.3
27.5°	1439.9	1439.9	1435.5	1426.7	1420.1	1409.1	1402.5	1389.3	1380.6	1374.0	1369.6
30°	1404.7	1404.7	1400.3	1389.3	1380.6	1369.6	1363.0	1349.8	1338.8	1332.2	1323.4
32.5°	1369.6	1367.4	1363.0	1352.0	1341.0	1330.0	1316.8	1305.8	1292.6	1286.0	1277.2
35°	1327.8	1325.6	1321.2	1308.0	1299.2	1286.0	1270.6	1257.4	1244.3	1237.7	1224.5
37.5°	1283.8	1279.4	1275.0	1259.6	1248.7	1235.5	1224.5	1206.9	1193.7	1184.9	1178.3
40°	1235.5	1233.3	1226.7	1213.5	1198.1	1184.9	1169.5	1156.3	1143.1	1132.1	1123.3
42.5°	1187.1	1178.3	1173.9	1160.7	1149.7	1129.9	1118.9	1101.4	1088.2	1079.4	1066.2
45°	1132.1	1125.5	1118.9	1105.8	1090.4	1075.0	1064.0	1044.2	1031.0	1020.0	1009.0
47.5°	1070.6	1068.4	1061.8	1046.4	1033.2	1017.8	1004.6	984.9	971.7	962.9	951.9
50°	1009.0	1006.8	1002.4	987.0	969.5	956.3	945.3	925.5	912.3	899.1	892.5
52.5°	951.9	943.1	938.7	925.5	907.9	892.5	883.7	863.9	850.8	837.6	828.8
55°	885.9	879.3	874.9	863.9	848.6	828.8	820.0	802.4	791.4	782.6	769.4
57.5°	820.0	811.2	806.8	793.6	782.6	767.2	756.2	738.6	727.6	718.9	710.1
60°	745.2	745.2	740.8	727.6	716.7	701.3	692.5	674.9	663.9	657.3	646.3
62.5°	683.7	674.9	672.7	657.3	650.7	635.3	628.7	613.3	606.7	595.7	584.8
65°	606.7	606.7	604.5	595.7	587.0	567.2	558.4	545.2	538.6	529.8	521.0
67.5°	538.6	532.0	532.0	523.2	512.2	501.2	494.6	481.4	477.0	466.0	459.5
70°	470.4	463.8	463.8	452.9	446.3	435.3	430.9	419.9	411.1	406.7	400.1
72.5°	402.3	397.9	395.7	386.9	382.5	371.5	369.3	358.3	349.5	347.3	340.7
75°	334.1	329.7	323.2	325.4	316.6	307.8	305.6	299.0	294.6	288.0	281.4
77.5°	266.0	261.6	261.6	257.2	252.8	246.2	244.0	239.6	233.0	228.6	224.2
80°	202.2	197.8	197.8	195.7	189.1	184.7	184.7	178.1	178.1	173.7	171.5
82.5°	138.5	136.3	134.1	136.3	131.9	127.5	129.7	127.5	125.3	120.9	118.7
85°	81.3	79.1	76.9	81.3	76.9	79.1	76.9	74.7	74.7	72.5	70.3
87.5°	30.8	30.8	28.6	30.8	30.8	33.0	30.8	30.8	30.8	30.8	30.8
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: P571961

CATALOG NUMBER: 22ID-45-L830-SWR

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
5°	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1593.8	1596.0
7.5°	1587.2	1585.0	1587.2	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0
10°	1574.0	1574.0	1574.0	1574.0	1574.0	1574.0	1574.0	1574.0	1574.0	1571.8	1571.8
12.5°	1558.6	1558.6	1556.4	1556.4	1556.4	1554.2	1554.2	1556.4	1556.4	1554.2	1556.4
15°	1536.6	1538.8	1534.4	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1534.4
17.5°	1512.5	1510.3	1508.1	1508.1	1505.9	1503.7	1503.7	1505.9	1505.9	1508.1	1508.1
20°	1481.7	1481.7	1477.3	1475.1	1472.9	1470.7	1470.7	1472.9	1472.9	1472.9	1477.3
22.5°	1446.5	1444.3	1439.9	1437.7	1437.7	1433.3	1435.5	1437.7	1437.7	1437.7	1439.9
25°	1406.9	1404.7	1402.5	1400.3	1395.9	1393.7	1393.7	1398.1	1398.1	1402.5	1404.7
27.5°	1365.2	1363.0	1358.6	1354.2	1352.0	1349.8	1349.8	1354.2	1354.2	1358.6	1360.8
30°	1321.2	1319.0	1312.4	1310.2	1303.6	1301.4	1303.6	1308.0	1310.2	1312.4	1314.6
32.5°	1275.0	1270.6	1264.0	1261.8	1255.2	1257.4	1253.0	1259.6	1261.8	1264.0	1266.2
35°	1224.5	1220.1	1213.5	1206.9	1204.7	1202.5	1202.5	1206.9	1206.9	1213.5	1215.7
37.5°	1169.5	1167.3	1160.7	1156.3	1151.9	1151.9	1147.5	1154.1	1156.3	1160.7	1160.7
40°	1118.9	1116.8	1105.8	1101.4	1097.0	1099.2	1092.6	1099.2	1101.4	1105.8	1108.0
42.5°	1059.6	1057.4	1048.6	1044.2	1039.8	1042.0	1035.4	1042.0	1039.8	1046.4	1048.6
45°	1002.4	1000.2	993.6	984.9	980.5	982.7	982.7	982.7	980.5	987.0	989.2
47.5°	945.3	940.9	934.3	925.5	921.1	923.3	923.3	923.3	921.1	929.9	929.9
50°	885.9	881.5	874.9	866.1	863.9	863.9	863.9	863.9	863.9	868.3	870.5
52.5°	824.4	822.2	815.6	806.8	802.4	802.4	802.4	798.0	802.4	804.6	806.8
55°	762.8	760.6	749.6	745.2	740.8	743.0	740.8	738.6	738.6	743.0	745.2
57.5°	701.3	699.1	692.5	690.3	679.3	681.5	679.3	679.3	681.5	681.5	683.7
60°	639.7	637.5	630.9	628.7	619.9	622.1	613.3	617.7	619.9	619.9	619.9
62.5°	573.8	573.8	562.8	558.4	554.0	556.2	549.6	549.6	549.6	554.0	554.0
65°	514.4	512.2	503.4	499.0	494.6	494.6	490.2	490.2	488.0	492.4	492.4
67.5°	452.9	452.9	444.1	439.7	435.3	437.5	430.9	430.9	433.1	433.1	433.1
70°	393.5	393.5	386.9	384.7	378.1	378.1	371.5	373.7	373.7	373.7	373.7
72.5°	336.3	336.3	329.7	327.6	321.0	321.0	314.4	316.6	316.6	314.4	314.4
75°	279.2	281.4	270.4	268.2	263.8	266.0	261.6	259.4	261.6	257.2	257.2
77.5°	222.0	222.0	219.8	217.6	211.0	211.0	208.8	204.4	206.6	202.2	202.2
80°	167.1	169.3	162.7	164.9	158.3	160.5	158.3	153.9	153.9	151.7	149.5
82.5°	116.5	116.5	114.3	116.5	114.3	112.1	109.9	107.7	107.7	103.3	103.3
85°	70.3	72.5	68.1	70.3	70.3	68.1	63.8	63.8	63.8	61.6	61.6
87.5°	28.6	33.0	30.8	30.8	30.8	30.8	28.6	30.8	28.6	26.4	26.4
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: P571961

CATALOG NUMBER: 22ID-45-L830-SWR

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1598.2	1600.4	1600.4	1600.4	1600.4	1598.2	1598.2	1598.2	1598.2	1598.2	1600.4
5°	1593.8	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0	1596.0
7.5°	1585.0	1585.0	1587.2	1587.2	1587.2	1587.2	1589.4	1587.2	1589.4	1587.2	1589.4
10°	1571.8	1574.0	1576.2	1576.2	1578.4	1576.2	1578.4	1578.4	1580.6	1580.6	1580.6
12.5°	1556.4	1558.6	1558.6	1563.0	1563.0	1563.0	1565.2	1565.2	1567.4	1569.6	1569.6
15°	1534.4	1536.6	1538.8	1538.8	1543.2	1547.6	1547.6	1549.8	1552.0	1554.2	1554.2
17.5°	1508.1	1510.3	1512.5	1516.8	1521.2	1525.6	1527.8	1527.8	1532.2	1534.4	1534.4
20°	1477.3	1481.7	1486.1	1490.5	1492.7	1499.3	1501.5	1503.7	1508.1	1512.5	1512.5
22.5°	1444.3	1446.5	1453.1	1457.5	1461.9	1468.5	1470.7	1477.3	1481.7	1483.9	1486.1
25°	1404.7	1409.1	1415.7	1420.1	1424.5	1433.3	1439.9	1444.3	1450.9	1455.3	1455.3
27.5°	1360.8	1367.4	1374.0	1378.4	1384.9	1395.9	1402.5	1406.9	1415.7	1420.1	1422.3
30°	1316.8	1321.2	1330.0	1336.6	1343.2	1354.2	1363.0	1369.6	1378.4	1382.7	1384.9
32.5°	1268.4	1275.0	1283.8	1290.4	1299.2	1310.2	1319.0	1325.6	1338.8	1341.0	1343.2
35°	1217.9	1224.5	1231.1	1242.1	1250.8	1261.8	1272.8	1281.6	1288.2	1297.0	1299.2
37.5°	1165.1	1171.7	1180.5	1189.3	1198.1	1211.3	1222.3	1228.9	1239.9	1246.5	1250.8
40°	1110.2	1116.8	1127.7	1138.7	1145.3	1158.5	1169.5	1178.3	1193.7	1198.1	1198.1
42.5°	1050.8	1059.6	1066.2	1079.4	1086.0	1101.4	1112.4	1125.5	1134.3	1140.9	1143.1
45°	993.6	1000.2	1013.4	1022.2	1028.8	1044.2	1055.2	1066.2	1077.2	1081.6	1086.0
47.5°	932.1	940.9	951.9	956.3	967.3	982.7	993.6	1004.6	1017.8	1022.2	1024.4
50°	872.7	879.3	885.9	894.7	903.5	918.9	932.1	943.1	954.1	958.5	960.7
52.5°	811.2	817.8	824.4	835.4	839.8	855.1	861.7	872.7	888.1	892.5	894.7
55°	747.4	756.2	765.0	771.6	776.0	789.2	798.0	811.2	820.0	824.4	828.8
57.5°	683.7	690.3	699.1	707.9	710.1	723.3	734.2	740.8	751.8	756.2	760.6
60°	622.1	628.7	635.3	637.5	644.1	657.3	668.3	672.7	683.7	688.1	690.3
62.5°	556.2	558.4	567.2	573.8	573.8	591.4	597.9	606.7	615.5	617.7	622.1
65°	494.6	499.0	499.0	503.4	510.0	521.0	525.4	536.4	543.0	545.2	547.4
67.5°	433.1	437.5	441.9	446.3	446.3	457.3	459.5	468.2	474.8	477.0	479.2
70°	373.7	373.7	380.3	384.7	382.5	391.3	395.7	400.1	408.9	411.1	413.3
72.5°	316.6	314.4	318.8	323.2	327.6	329.7	334.1	336.3	342.9	347.3	349.5
75°	259.4	261.6	261.6	263.8	261.6	263.8	270.4	277.0	281.4	283.6	288.0
77.5°	202.2	204.4	204.4	206.6	208.8	208.8	211.0	219.8	224.2	226.4	224.2
80°	149.5	151.7	151.7	153.9	156.1	158.3	158.3	162.7	169.3	171.5	171.5
82.5°	105.5	105.5	105.5	105.5	107.7	107.7	109.9	114.3	118.7	118.7	123.1
85°	63.8	63.8	61.6	63.8	61.6	63.8	65.9	70.3	72.5	72.5	74.7
87.5°	28.6	26.4	28.6	28.6	26.4	26.4	26.4	28.6	28.6	30.8	30.8
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):

	345°	350°	355°	360°
0°	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1600.4	1600.4	1600.4
5°	1596.0	1596.0	1596.0	1596.0
7.5°	1589.4	1589.4	1589.4	1589.4
10°	1580.6	1582.8	1582.8	1582.8
12.5°	1569.6	1569.6	1571.8	1571.8
15°	1556.4	1556.4	1556.4	1558.6
17.5°	1536.6	1538.8	1538.8	1538.8
20°	1514.6	1516.8	1516.8	1514.6
22.5°	1486.1	1488.3	1490.5	1490.5
25°	1457.5	1461.9	1464.1	1464.1
27.5°	1424.5	1428.9	1431.1	1431.1
30°	1389.3	1393.7	1393.7	1393.7
32.5°	1347.6	1354.2	1356.4	1356.4
35°	1303.6	1312.4	1314.6	1314.6
37.5°	1257.4	1261.8	1268.4	1268.4
40°	1206.9	1211.3	1217.9	1217.9
42.5°	1151.9	1160.7	1160.7	1165.1
45°	1092.6	1101.4	1103.6	1108.0
47.5°	1033.2	1042.0	1044.2	1046.4
50°	969.5	976.1	982.7	982.7
52.5°	905.7	910.1	914.5	918.9
55°	837.6	844.2	846.4	850.8
57.5°	767.2	776.0	778.2	782.6
60°	699.1	705.7	710.1	712.3
62.5°	630.9	635.3	637.5	641.9
65°	556.2	562.8	562.8	567.2
67.5°	488.0	492.4	494.6	496.8
70°	415.5	424.3	426.5	430.9
72.5°	351.7	360.5	360.5	364.9
75°	294.6	296.8	296.8	301.2
77.5°	233.0	235.2	237.4	239.6
80°	175.9	178.1	178.1	182.5
82.5°	125.3	125.3	125.3	127.5
85°	76.9	74.7	72.5	74.7
87.5°	30.8	30.8	33.0	28.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P571961

CATALOG NUMBER: 22ID-45-L830-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	16.99	18.61	17.35	18.93	19.24	15.87	17.50	16.23	17.81	18.13
	3H	18.74	20.21	19.11	20.53	20.89	17.49	18.96	17.86	19.28	19.64
	4H	19.40	20.78	19.79	21.13	21.50	18.08	19.46	18.48	19.81	20.19
	6H	19.89	21.17	20.30	21.54	21.93	18.51	19.80	18.92	20.16	20.55
	8H	20.05	21.27	20.47	21.66	22.06	18.65	19.87	19.07	20.26	20.66
	12H	20.14	21.32	20.57	21.70	22.13	18.73	19.90	19.16	20.28	20.71
4H	2H	17.47	18.85	17.87	19.20	19.58	16.57	17.95	16.97	18.30	18.68
	3H	19.45	20.61	19.86	21.01	21.40	18.39	19.55	18.80	19.95	20.35
	4H	20.24	21.29	20.67	21.70	22.14	19.10	20.15	19.53	20.56	21.00
	6H	20.87	21.79	21.33	22.23	22.69	19.65	20.56	20.10	21.00	21.46
	8H	21.09	21.94	21.55	22.39	22.85	19.82	20.67	20.28	21.12	21.58
	12H	21.23	22.00	21.71	22.48	22.95	19.93	20.70	20.41	21.18	21.65
8H	4H	20.48	21.33	20.94	21.78	22.24	19.45	20.31	19.91	20.75	21.21
	6H	21.22	21.93	21.71	22.42	22.90	20.10	20.81	20.59	21.30	21.78
	8H	21.51	22.15	22.02	22.65	23.14	20.34	20.98	20.84	21.48	21.97
	12H	21.73	22.29	22.23	22.78	23.35	20.51	21.08	21.02	21.57	22.13
12H	4H	20.50	21.27	20.98	21.74	22.21	19.49	20.26	19.97	20.74	21.21
	6H	21.25	21.89	21.76	22.40	22.89	20.17	20.81	20.67	21.31	21.80
	8H	21.59	22.16	22.10	22.65	23.21	20.45	21.02	20.96	21.51	22.07

END OF REPORT