

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: NEO-RAY

Report Number: P997624

Luminaire Tested: SA2XXDP-B675DB27-4F0-XX-W2A-A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDP-B675DB27-4F0-XX-W2A-A
Description: Define 2 Direct Recessed with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

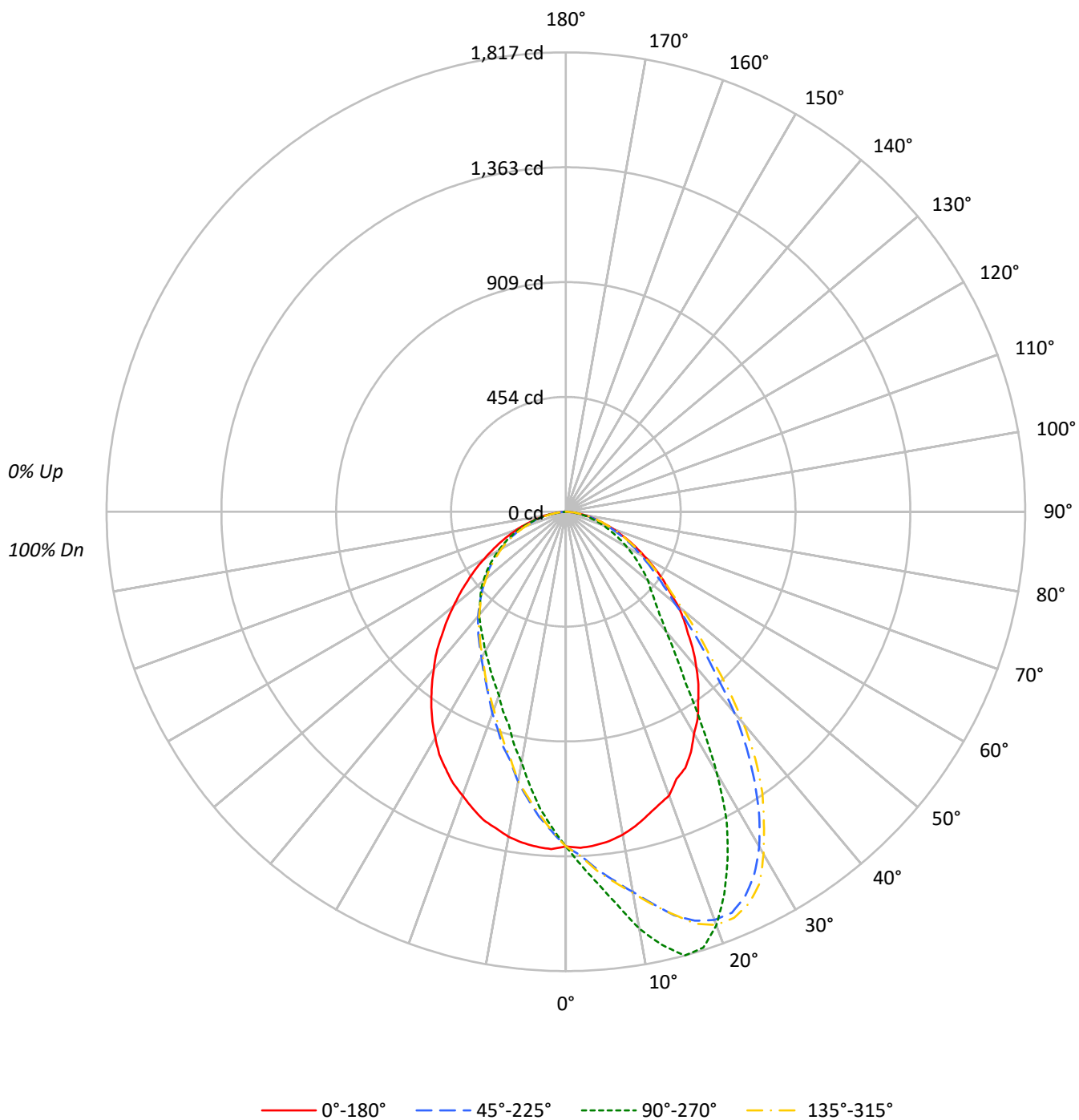
Lumens per Lamp: N/A
Luminaire Lumens: 2920.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20950	20950	20950	20950
5°	21046	23487	21127	18686
10°	20847	26913	20979	16172
15°	20388	29775	20671	14287
20°	20118	29321	20118	13023
25°	19527	26438	19616	12224
30°	18519	21848	18872	11639
35°	17633	15923	17929	11225
40°	16607	12718	16795	10993
45°	15325	11112	15576	10680
50°	14229	10446	14254	10471
55°	12971	9629	13054	10192
60°	11625	8823	11786	9757
65°	10439	8038	10630	9334
70°	9275	7299	9511	8710
75°	7963	6471	8275	7712
80°	6490	5561	6955	6217
85°	4795	4995	5176	3687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 155°

Vertical Angle: 45°

Luminance: 27351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	4.3
10°-20°	366.9	12.6
20°-30°	532.5	18.2
30°-40°	561.3	19.2
40°-50°	496.7	17.0
50°-60°	396.6	13.6
60°-70°	269.4	9.2
70°-80°	137.8	4.7
80°-90°	32.6	1.1
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°	1025.5	35.1
0°-40°	1586.8	54.3
0°-60°	2480.2	84.9
0°-90°	2920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1324	1478	1330	1176	1324	126
15°	1244	1817	1261	872	1244	351
25°	1118	1514	1123	700	1118	511
35°	912	824	928	581	912	571
45°	685	496	696	477	685	531
55°	470	349	473	369	470	419
65°	279	215	284	249	279	277
75°	130	106	135	126	130	140
85°	26	28	28	20	26	32
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°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1330.6	1333.7	1338.7	1339.8	1349.9	1358.1	1367.2	1367.2	1370.3	1369.3	1361.1
5°	1324.5	1333.7	1346.9	1358.1	1376.4	1384.5	1396.7	1405.9	1414.0	1420.1	1419.1
7.5°	1314.3	1330.6	1349.9	1371.3	1395.7	1409.9	1427.2	1443.5	1454.7	1464.9	1472.0
10°	1297.0	1324.5	1350.9	1379.4	1411.0	1430.3	1450.6	1472.0	1489.3	1508.6	1526.9
12.5°	1273.6	1313.3	1345.9	1383.5	1422.2	1443.5	1476.1	1492.3	1525.9	1574.7	1588.0
15°	1244.1	1298.0	1328.6	1376.4	1427.2	1444.5	1489.3	1515.7	1584.9	1615.4	1652.1
17.5°	1216.7	1276.7	1317.4	1372.3	1422.2	1455.7	1499.5	1553.4	1611.4	1655.1	1695.8
20°	1194.3	1252.3	1301.1	1362.1	1425.2	1467.9	1513.7	1578.8	1641.9	1686.6	1718.2
22.5°	1143.4	1217.7	1274.7	1342.8	1419.1	1478.1	1521.8	1593.1	1661.2	1688.7	1716.1
25°	1118.0	1182.1	1248.2	1325.5	1415.0	1485.2	1522.9	1602.2	1662.2	1672.4	1678.5
27.5°	1071.2	1143.4	1220.7	1309.2	1414.0	1473.0	1520.8	1593.1	1640.9	1633.8	1615.4
30°	1013.2	1101.7	1187.2	1282.8	1399.8	1463.9	1508.6	1574.7	1599.2	1562.5	1530.0
32.5°	970.5	1053.9	1148.5	1259.4	1383.5	1444.5	1488.3	1540.2	1545.2	1479.1	1424.2
35°	912.5	1005.1	1111.9	1228.9	1356.0	1411.0	1451.7	1483.2	1458.8	1366.2	1301.1
37.5°	860.6	952.2	1066.1	1185.1	1318.4	1372.3	1404.9	1409.9	1349.9	1268.5	1172.9
40°	803.7	898.3	1017.3	1142.4	1276.7	1323.5	1343.8	1328.6	1242.1	1147.5	1036.6
42.5°	746.7	840.3	968.4	1096.6	1223.8	1263.5	1271.6	1229.9	1124.1	1013.2	885.0
45°	684.6	782.3	910.5	1039.7	1162.7	1185.1	1186.1	1126.1	1001.0	885.0	766.0
47.5°	633.8	724.3	851.5	980.7	1084.4	1099.7	1093.6	1024.4	888.1	757.9	654.1
50°	577.8	664.3	790.4	917.6	1006.1	1010.2	994.9	896.2	763.0	643.9	561.5
52.5°	517.8	605.3	721.3	843.3	922.7	916.6	887.1	781.3	656.1	557.5	494.4
55°	470.0	547.3	656.1	775.2	831.1	813.8	781.3	673.4	574.8	491.3	436.4
57.5°	417.1	485.2	592.1	695.8	728.4	712.1	679.5	578.8	487.3	424.2	387.6
60°	367.2	429.3	522.9	609.4	634.8	617.5	579.8	489.3	423.2	370.3	342.8
62.5°	321.5	375.4	453.7	533.1	543.2	525.9	493.4	420.1	363.2	321.5	301.1
65°	278.7	329.6	392.7	452.7	461.8	443.5	410.0	357.1	309.3	282.8	263.5
67.5°	237.0	277.7	333.7	377.4	382.5	365.2	337.7	295.0	265.5	237.0	222.8
70°	200.4	230.9	274.7	310.3	312.3	296.0	281.8	243.1	220.7	200.4	189.2
72.5°	164.8	186.2	219.7	246.2	247.2	237.0	223.8	199.4	180.1	165.8	154.6
75°	130.2	148.5	168.9	192.3	191.2	183.1	172.9	157.7	141.4	132.2	127.2
77.5°	99.7	110.9	127.2	142.4	142.4	138.3	132.2	121.1	110.9	101.7	96.6
80°	71.2	78.3	91.6	96.6	98.7	97.7	92.6	84.4	80.4	73.2	71.2
82.5°	45.8	50.9	57.0	62.1	65.1	63.1	62.1	58.0	51.9	49.8	47.8
85°	26.4	28.5	31.5	34.6	35.6	34.6	36.6	33.6	30.5	30.5	29.5
87.5°	11.2	12.2	14.2	14.2	15.3	15.3	14.2	15.3	15.3	14.2	13.2
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°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1375.4	1376.4	1378.4	1388.6	1393.7	1394.7	1390.6	1399.8	1402.8	1399.8	1397.7
5°	1440.5	1446.6	1458.8	1472.0	1471.0	1472.0	1478.1	1484.2	1486.2	1478.1	1481.2
7.5°	1497.4	1509.6	1522.9	1543.2	1543.2	1553.4	1557.5	1562.5	1574.7	1568.6	1566.6
10°	1562.5	1578.8	1603.2	1635.8	1636.8	1647.0	1657.1	1673.4	1678.5	1674.4	1676.5
12.5°	1643.9	1675.5	1677.5	1713.1	1729.4	1731.4	1747.7	1744.6	1754.8	1754.8	1772.1
15°	1679.5	1728.4	1755.8	1790.4	1800.6	1788.4	1801.6	1815.8	1816.9	1816.9	1815.8
17.5°	1743.6	1762.9	1790.4	1808.7	1812.8	1812.8	1813.8	1819.9	1815.8	1807.7	1813.8
20°	1756.8	1765.0	1775.2	1773.1	1775.2	1765.0	1754.8	1744.6	1745.7	1740.6	1755.8
22.5°	1732.4	1730.4	1707.0	1691.7	1691.7	1671.4	1652.1	1642.9	1633.8	1636.8	1641.9
25°	1671.4	1639.9	1611.4	1589.0	1583.9	1551.4	1524.9	1516.8	1501.5	1513.7	1515.7
27.5°	1573.7	1538.1	1492.3	1473.0	1446.6	1433.3	1415.0	1390.6	1359.1	1377.4	1374.3
30°	1469.0	1416.1	1378.4	1331.6	1289.9	1286.9	1252.3	1211.6	1195.3	1195.3	1204.5
32.5°	1352.0	1281.8	1226.8	1160.7	1120.0	1102.7	1061.0	1020.3	1029.5	999.0	1010.2
35°	1215.6	1123.1	1053.9	989.8	959.3	938.9	885.0	862.7	838.2	824.0	850.4
37.5°	1085.4	978.6	890.1	819.9	808.7	772.1	735.5	721.3	707.0	713.1	712.1
40°	926.7	832.1	752.8	697.9	678.5	661.2	636.8	619.5	610.4	615.5	616.5
42.5°	783.3	704.0	645.0	606.3	590.0	577.8	565.6	551.4	548.3	548.3	552.4
45°	672.4	607.3	567.6	536.1	527.0	517.8	508.6	502.5	500.5	496.4	499.5
47.5°	583.9	532.0	507.6	484.2	474.1	472.0	463.9	460.8	456.8	455.7	456.8
50°	509.7	477.1	454.7	441.5	434.4	431.3	427.3	421.2	419.1	424.2	422.2
52.5°	457.8	427.3	415.0	401.8	397.8	393.7	387.6	388.6	387.6	385.5	385.5
55°	405.9	386.6	374.4	364.2	363.2	359.1	354.0	352.0	351.0	348.9	352.0
57.5°	364.2	348.9	337.7	328.6	324.5	324.5	319.4	315.4	315.4	314.3	315.4
60°	322.5	307.2	300.1	290.9	287.9	286.9	283.8	281.8	278.7	278.7	278.7
62.5°	283.8	271.6	263.5	255.3	256.4	251.3	247.2	245.2	245.2	246.2	246.2
65°	247.2	239.1	228.9	221.8	219.7	218.7	216.7	215.7	212.6	214.6	214.6
67.5°	213.6	202.4	196.3	193.3	190.2	189.2	187.2	185.1	184.1	183.1	185.1
70°	180.1	170.9	165.8	163.8	160.7	159.7	158.7	155.6	156.7	157.7	158.7
72.5°	149.5	141.4	140.4	134.3	134.3	134.3	130.2	132.2	131.2	129.2	131.2
75°	118.0	113.9	111.9	108.8	109.9	108.8	107.8	104.8	104.8	105.8	106.8
77.5°	93.6	89.5	88.5	85.5	83.4	85.5	83.4	82.4	82.4	83.4	83.4
80°	69.2	67.1	64.1	64.1	64.1	63.1	63.1	63.1	62.1	61.0	62.1
82.5°	45.8	45.8	44.8	43.7	44.8	42.7	43.7	43.7	43.7	43.7	43.7
85°	29.5	28.5	28.5	27.5	27.5	27.5	28.5	26.4	26.4	27.5	27.5
87.5°	13.2	13.2	13.2	14.2	13.2	13.2	13.2	14.2	13.2	13.2	13.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1402.8	1395.7	1389.6	1390.6	1395.7	1391.6	1381.5	1368.2	1363.2	1357.1	1363.2
5°	1487.3	1481.2	1469.0	1470.0	1466.9	1462.8	1446.6	1426.2	1426.2	1409.9	1407.9
7.5°	1570.7	1561.5	1553.4	1551.4	1540.2	1532.0	1517.8	1489.3	1478.1	1458.8	1447.6
10°	1664.3	1657.1	1648.0	1636.8	1630.7	1616.5	1593.1	1551.4	1531.0	1504.6	1485.2
12.5°	1758.9	1757.9	1737.5	1715.1	1714.1	1691.7	1675.5	1619.5	1592.0	1556.4	1510.7
15°	1818.9	1813.8	1802.6	1791.4	1794.5	1770.1	1733.4	1667.3	1649.0	1606.3	1557.5
17.5°	1817.9	1817.9	1814.8	1812.8	1809.7	1802.6	1782.3	1738.5	1709.0	1655.1	1609.3
20°	1759.9	1773.1	1776.2	1775.2	1785.3	1790.4	1789.4	1761.9	1738.5	1690.7	1643.9
22.5°	1643.9	1674.4	1687.7	1695.8	1717.2	1728.4	1754.8	1744.6	1738.5	1702.9	1663.3
25°	1536.1	1546.3	1585.9	1588.0	1617.5	1644.9	1671.4	1688.7	1711.1	1697.8	1664.3
27.5°	1396.7	1420.1	1448.6	1470.0	1476.1	1532.0	1575.8	1608.3	1659.2	1663.3	1652.1
30°	1239.0	1250.2	1297.0	1325.5	1358.1	1398.8	1461.8	1517.8	1563.6	1605.3	1619.5
32.5°	1046.8	1092.6	1120.0	1154.6	1183.1	1255.3	1332.6	1404.9	1457.8	1528.0	1558.5
35°	870.8	906.4	953.2	967.4	1019.3	1080.4	1181.1	1273.6	1354.0	1425.2	1487.3
37.5°	725.3	753.8	803.7	826.0	856.5	934.9	1019.3	1134.3	1230.9	1318.4	1395.7
40°	625.6	647.0	684.6	691.7	717.2	788.4	856.5	964.4	1092.6	1210.6	1295.0
42.5°	557.5	567.6	593.1	602.2	618.5	666.3	727.4	829.1	948.1	1070.2	1189.2
45°	508.6	515.8	531.0	539.2	559.5	580.9	630.7	712.1	805.7	928.8	1057.0
47.5°	464.9	474.1	480.2	485.2	496.4	519.8	552.4	612.4	701.9	814.8	938.9
50°	428.3	431.3	442.5	443.5	450.7	465.9	496.4	533.1	604.3	695.8	815.9
52.5°	391.7	394.7	401.8	408.9	412.0	424.2	444.6	475.1	528.0	600.2	707.0
55°	355.0	359.1	366.2	371.3	374.4	384.5	396.7	426.2	467.9	518.8	606.3
57.5°	318.4	327.6	329.6	332.7	337.7	348.9	360.1	377.4	410.0	456.8	520.8
60°	283.8	286.9	294.0	297.0	302.1	308.2	322.5	335.7	359.1	395.7	453.7
62.5°	248.2	255.3	258.4	261.4	265.5	272.6	281.8	296.0	316.4	345.9	391.7
65°	217.7	218.7	224.8	228.9	233.0	238.0	247.2	260.4	272.6	300.1	333.7
67.5°	188.2	190.2	192.3	196.3	201.4	206.5	214.6	221.8	237.0	255.3	281.8
70°	159.7	159.7	164.8	167.9	166.8	172.9	179.0	187.2	198.4	215.7	237.0
72.5°	134.3	133.3	137.3	138.3	140.4	144.5	148.5	156.7	162.8	176.0	192.3
75°	106.8	108.8	110.9	110.9	113.9	117.0	121.1	125.1	132.2	140.4	152.6
77.5°	84.4	84.4	86.5	87.5	90.5	89.5	93.6	97.7	102.7	109.9	119.0
80°	62.1	64.1	64.1	64.1	65.1	66.1	70.2	73.2	76.3	81.4	85.5
82.5°	43.7	43.7	45.8	45.8	45.8	47.8	47.8	48.8	50.9	53.9	57.0
85°	27.5	27.5	27.5	28.5	27.5	28.5	30.5	29.5	30.5	32.6	32.6
87.5°	13.2	13.2	13.2	13.2	13.2	14.2	13.2	14.2	15.3	15.3	15.3
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: P997624

CATALOG NUMBER: SA2XXDP-B675DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1358.1	1353.0	1349.9	1352.0	1345.9	1330.6	1330.6	1335.7	1329.6	1323.5	1314.3
5°	1395.7	1385.5	1379.4	1378.4	1364.2	1339.8	1334.7	1329.6	1316.4	1302.1	1286.9
7.5°	1432.3	1414.0	1403.8	1396.7	1376.4	1344.8	1331.6	1320.4	1299.1	1277.7	1258.4
10°	1462.8	1436.4	1424.2	1413.0	1386.6	1346.9	1325.5	1305.2	1277.7	1250.2	1225.8
12.5°	1487.3	1456.7	1441.5	1425.2	1392.7	1340.8	1314.3	1281.8	1254.3	1217.7	1193.3
15°	1528.0	1464.9	1450.6	1435.4	1401.8	1330.6	1298.0	1261.4	1223.8	1175.0	1148.5
17.5°	1560.5	1476.1	1475.1	1442.5	1398.8	1326.5	1276.7	1228.9	1188.2	1139.4	1097.6
20°	1579.8	1493.4	1477.1	1443.5	1388.6	1299.1	1247.2	1194.3	1150.5	1091.5	1049.8
22.5°	1596.1	1517.8	1475.1	1434.4	1367.2	1289.9	1213.6	1163.8	1103.7	1039.7	1000.0
25°	1602.2	1522.9	1478.1	1431.3	1352.0	1263.5	1177.0	1123.1	1055.9	998.0	944.0
27.5°	1603.2	1521.8	1466.9	1418.1	1330.6	1228.9	1140.4	1083.4	1009.1	942.0	888.1
30°	1593.1	1510.7	1460.8	1407.9	1310.3	1197.3	1095.6	1032.5	953.2	886.1	830.1
32.5°	1562.5	1488.3	1447.6	1389.6	1283.8	1153.6	1052.9	982.7	899.3	833.2	779.2
35°	1511.7	1460.8	1416.1	1362.1	1249.2	1112.9	1010.2	927.8	843.3	780.3	729.4
37.5°	1448.6	1421.1	1379.4	1326.5	1209.5	1076.3	962.3	870.8	786.4	725.3	675.5
40°	1363.2	1370.3	1329.6	1281.8	1162.7	1026.4	900.3	812.8	733.5	676.5	627.7
42.5°	1270.6	1300.1	1276.7	1230.9	1110.9	971.5	854.5	757.9	680.6	621.6	580.9
45°	1170.9	1221.8	1207.5	1173.9	1057.0	913.5	789.4	695.8	627.7	570.7	535.1
47.5°	1062.0	1134.3	1134.3	1109.9	996.9	855.5	733.5	637.8	570.7	530.0	495.4
50°	951.2	1032.5	1045.8	1029.5	929.8	789.4	665.3	578.8	520.8	481.2	455.7
52.5°	835.2	929.8	954.2	946.1	858.6	726.3	609.4	524.9	472.0	437.4	415.0
55°	724.3	834.2	860.6	863.7	782.3	657.2	547.3	473.0	422.2	398.8	379.4
57.5°	619.5	725.3	754.8	759.9	705.0	594.1	489.3	424.2	378.4	359.1	343.8
60°	530.0	618.5	657.2	668.4	620.5	520.8	435.4	372.3	337.7	319.4	305.2
62.5°	456.8	528.0	568.7	571.7	550.3	456.8	379.4	326.5	297.0	280.8	273.6
65°	385.5	449.6	474.1	486.3	469.0	395.7	327.6	283.8	260.4	246.2	239.1
67.5°	328.6	369.3	389.6	405.9	388.6	333.7	278.7	243.1	225.8	211.6	207.5
70°	269.6	303.1	318.4	334.7	319.4	277.7	238.0	205.5	190.2	179.0	174.0
72.5°	215.7	242.1	256.4	266.5	257.4	222.8	190.2	167.9	156.7	148.5	145.5
75°	170.9	189.2	197.4	204.5	200.4	174.0	153.6	135.3	125.1	118.0	116.0
77.5°	130.2	143.4	152.6	154.6	149.5	132.2	115.0	103.8	95.6	91.6	89.5
80°	92.6	100.7	105.8	108.8	103.8	96.6	84.4	76.3	69.2	64.1	63.1
82.5°	62.1	66.1	70.2	69.2	67.1	61.0	53.9	49.8	46.8	42.7	42.7
85°	35.6	36.6	38.7	39.7	38.7	34.6	30.5	28.5	26.4	23.4	23.4
87.5°	15.3	16.3	16.3	17.3	15.3	15.3	13.2	11.2	11.2	10.2	9.2
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: P997624

CATALOG NUMBER: SA2XXDP-B675DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1309.2	1314.3	1313.3	1303.1	1291.9	1282.8	1265.5	1267.5	1261.4	1262.4	1268.5
5°	1276.7	1276.7	1272.6	1258.4	1240.1	1229.9	1210.6	1205.5	1193.3	1192.3	1191.2
7.5°	1242.1	1237.0	1231.9	1211.6	1189.2	1172.9	1146.5	1140.4	1128.2	1120.0	1116.0
10°	1201.4	1194.3	1184.1	1160.7	1133.2	1112.9	1085.4	1077.3	1053.9	1043.7	1037.6
12.5°	1156.6	1152.6	1136.3	1117.0	1072.2	1049.8	1010.2	1018.3	994.9	974.6	971.5
15°	1111.9	1096.6	1087.5	1055.9	1002.0	991.8	960.3	944.0	922.7	906.4	906.4
17.5°	1068.1	1044.7	1024.4	990.8	951.2	922.7	899.3	891.1	864.7	848.4	845.4
20°	1010.2	983.7	978.6	930.8	903.3	871.8	849.4	829.1	809.8	802.6	797.5
22.5°	955.2	924.7	916.6	875.9	848.4	816.9	794.5	780.3	766.0	760.9	751.8
25°	896.2	877.9	865.7	822.0	791.4	761.9	746.7	736.5	723.3	722.3	716.2
27.5°	839.3	822.0	809.8	768.0	745.7	718.2	706.0	694.8	687.7	684.6	681.6
30°	790.4	771.1	756.9	726.3	698.9	676.5	666.3	659.2	655.1	650.0	649.0
32.5°	736.5	725.3	706.0	682.6	661.2	639.9	633.8	628.7	622.6	620.5	619.5
35°	690.7	675.5	663.3	636.8	627.7	609.4	602.2	598.2	590.0	588.0	586.0
37.5°	646.0	631.7	618.5	602.2	584.9	574.8	570.7	564.6	560.5	561.5	559.5
40°	601.2	590.0	579.8	562.6	552.4	547.3	539.2	533.1	531.0	532.0	531.0
42.5°	557.5	547.3	541.2	528.0	517.8	512.7	507.6	501.5	504.6	504.6	507.6
45°	517.8	508.6	504.6	494.4	488.3	480.2	475.1	474.1	478.1	477.1	477.1
47.5°	477.1	474.1	469.0	459.8	451.7	446.6	445.6	445.6	449.6	451.7	450.7
50°	445.6	439.5	433.4	426.2	420.1	418.1	415.0	417.1	421.2	421.2	423.2
52.5°	405.9	401.8	399.8	393.7	389.6	389.6	389.6	390.6	393.7	396.7	395.7
55°	371.3	368.3	366.2	363.2	358.1	359.1	358.1	360.1	363.2	366.2	368.3
57.5°	334.7	333.7	331.6	326.5	326.5	325.5	328.6	329.6	334.7	336.7	339.8
60°	302.1	299.1	299.1	295.0	295.0	295.0	298.1	301.1	305.2	306.2	308.2
62.5°	267.5	267.5	266.5	263.5	263.5	266.5	267.5	271.6	273.6	273.6	276.7
65°	235.0	234.0	233.0	234.0	235.0	235.0	238.0	240.1	242.1	243.1	244.1
67.5°	202.4	201.4	203.5	202.4	204.5	208.5	207.5	210.6	213.6	213.6	214.6
70°	171.9	174.0	172.9	175.0	174.0	176.0	179.0	180.1	180.1	181.1	184.1
72.5°	143.4	143.4	143.4	142.4	143.4	145.5	147.5	148.5	150.6	151.6	154.6
75°	116.0	116.0	113.9	116.0	116.0	118.0	120.0	120.0	120.0	122.1	125.1
77.5°	87.5	88.5	87.5	89.5	89.5	90.5	92.6	91.6	93.6	94.6	95.6
80°	64.1	63.1	63.1	63.1	64.1	64.1	66.1	67.1	67.1	70.2	68.2
82.5°	40.7	41.7	40.7	41.7	41.7	42.7	41.7	42.7	43.7	45.8	44.8
85°	23.4	22.4	22.4	23.4	22.4	22.4	23.4	22.4	23.4	22.4	23.4
87.5°	9.2	8.1	8.1	8.1	8.1	7.1	7.1	6.1	6.1	6.1	5.1
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: P997624

CATALOG NUMBER: SA2XXDP-B675DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1261.4	1264.5	1257.4	1255.3	1257.4	1250.2	1252.3	1254.3	1254.3	1257.4	1259.4
5°	1188.2	1184.1	1177.0	1175.0	1172.9	1176.0	1173.9	1177.0	1178.0	1185.1	1186.1
7.5°	1116.0	1109.9	1103.7	1097.6	1095.6	1090.5	1095.6	1095.6	1102.7	1100.7	1105.8
10°	1030.5	1029.5	1021.3	1018.3	1014.2	1006.1	1017.3	1014.2	1019.3	1028.5	1030.5
12.5°	967.4	956.2	961.3	947.1	952.2	944.0	945.1	945.1	953.2	954.2	952.2
15°	907.4	898.3	885.0	878.9	875.9	871.8	885.0	886.1	879.9	894.2	889.1
17.5°	846.4	846.4	834.2	831.1	823.0	827.0	825.0	826.0	824.0	834.2	839.3
20°	793.5	788.4	784.3	785.3	775.2	773.1	771.1	773.1	780.3	787.4	789.4
22.5°	750.8	747.7	737.5	739.6	731.4	734.5	732.4	737.5	738.5	738.5	745.7
25°	710.1	706.0	707.0	702.9	699.9	699.9	696.8	699.9	704.0	706.0	707.0
27.5°	679.5	676.5	671.4	668.4	670.4	665.3	669.4	672.4	672.4	670.4	672.4
30°	642.9	645.0	645.0	634.8	638.9	636.8	639.9	641.9	641.9	642.9	640.9
32.5°	618.5	612.4	611.4	610.4	610.4	606.3	606.3	609.4	610.4	611.4	614.4
35°	586.0	586.0	580.9	583.9	579.8	580.9	579.8	580.9	582.9	579.8	582.9
37.5°	556.5	557.5	555.4	557.5	558.5	556.5	554.4	558.5	556.5	556.5	554.4
40°	531.0	530.0	531.0	531.0	531.0	532.0	530.0	530.0	530.0	528.0	525.9
42.5°	509.7	503.6	505.6	506.6	503.6	503.6	504.6	503.6	506.6	500.5	500.5
45°	479.1	477.1	478.1	478.1	480.2	477.1	479.1	480.2	477.1	476.1	474.1
47.5°	451.7	453.7	451.7	453.7	453.7	455.7	451.7	452.7	453.7	449.6	446.6
50°	424.2	424.2	427.3	426.2	427.3	425.2	425.2	424.2	425.2	423.2	420.1
52.5°	398.8	395.7	400.8	399.8	398.8	397.8	396.7	397.8	395.7	393.7	393.7
55°	367.2	367.2	370.3	371.3	371.3	369.3	367.2	368.3	367.2	366.2	365.2
57.5°	341.8	337.7	339.8	340.8	340.8	337.7	339.8	337.7	337.7	338.8	335.7
60°	309.3	309.3	307.2	310.3	310.3	308.2	308.2	309.3	307.2	306.2	305.2
62.5°	274.7	275.7	278.7	279.8	280.8	278.7	276.7	277.7	277.7	274.7	275.7
65°	245.2	247.2	251.3	250.3	248.2	249.2	247.2	248.2	245.2	246.2	243.1
67.5°	216.7	215.7	216.7	216.7	218.7	217.7	215.7	215.7	214.6	217.7	214.6
70°	186.2	186.2	186.2	186.2	187.2	188.2	186.2	184.1	185.1	183.1	182.1
72.5°	154.6	155.6	154.6	156.7	153.6	155.6	155.6	154.6	153.6	153.6	153.6
75°	125.1	127.2	124.1	125.1	124.1	126.1	125.1	125.1	123.1	122.1	123.1
77.5°	95.6	96.6	94.6	95.6	94.6	95.6	95.6	94.6	94.6	94.6	94.6
80°	68.2	69.2	68.2	67.1	66.1	68.2	66.1	67.1	68.2	67.1	69.2
82.5°	43.7	43.7	42.7	43.7	41.7	41.7	42.7	42.7	41.7	43.7	41.7
85°	21.4	21.4	23.4	21.4	20.3	20.3	20.3	21.4	20.3	22.4	21.4
87.5°	5.1	4.1	5.1	5.1	4.1	4.1	5.1	4.1	5.1	6.1	4.1
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: P997624

CATALOG NUMBER: SA2XXDP-B675DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1256.3	1264.5	1261.4	1250.2	1263.5	1263.5	1272.6	1272.6	1283.8	1287.9	1294.0
5°	1185.1	1191.2	1196.3	1191.2	1200.4	1214.6	1222.8	1229.9	1245.1	1251.3	1260.4
7.5°	1108.8	1120.0	1125.1	1125.1	1140.4	1156.6	1172.9	1183.1	1204.5	1212.6	1221.8
10°	1034.6	1047.8	1058.0	1057.0	1082.4	1092.6	1112.9	1136.3	1157.7	1169.9	1183.1
12.5°	956.2	963.4	977.6	998.0	1004.1	1022.4	1045.8	1075.3	1113.9	1125.1	1144.4
15°	891.1	910.5	921.7	930.8	945.1	962.3	987.8	1016.3	1054.9	1079.3	1099.7
17.5°	836.2	861.6	868.8	866.7	885.0	911.5	941.0	962.3	996.9	1026.4	1045.8
20°	791.4	801.6	813.8	818.9	833.2	861.6	890.1	914.5	943.0	966.4	988.8
22.5°	746.7	754.8	765.0	774.1	785.3	801.6	829.1	859.6	887.1	909.4	934.9
25°	710.1	715.1	724.3	731.4	743.6	754.8	774.1	807.7	840.3	853.5	875.9
27.5°	674.5	678.5	684.6	692.8	698.9	710.1	727.4	754.8	788.4	801.6	832.1
30°	642.9	646.0	652.1	656.1	659.2	672.4	685.6	707.0	732.4	750.8	773.1
32.5°	613.4	616.5	622.6	623.6	627.7	634.8	647.0	666.3	688.7	704.0	723.3
35°	580.9	582.9	589.0	591.0	594.1	600.2	609.4	623.6	643.9	655.1	672.4
37.5°	555.4	554.4	558.5	561.5	565.6	568.7	571.7	586.0	601.2	611.4	624.6
40°	528.0	525.9	527.0	531.0	533.1	537.1	537.1	551.4	561.5	569.7	579.8
42.5°	500.5	499.5	497.4	499.5	501.5	502.5	503.6	513.7	523.9	531.0	542.2
45°	473.0	472.0	470.0	471.0	471.0	473.0	476.1	480.2	487.3	493.4	499.5
47.5°	447.6	445.6	442.5	441.5	443.5	443.5	443.5	447.6	454.7	456.8	462.9
50°	421.2	418.1	414.0	412.0	412.0	411.0	413.0	414.0	420.1	422.2	427.3
52.5°	392.7	390.6	386.6	382.5	383.5	381.5	382.5	383.5	385.5	388.6	391.7
55°	364.2	360.1	357.1	356.0	353.0	353.0	349.9	354.0	353.0	354.0	358.1
57.5°	336.7	332.7	327.6	325.5	322.5	321.5	319.4	318.4	319.4	322.5	325.5
60°	304.2	302.1	299.1	296.0	294.0	290.9	288.9	288.9	287.9	287.9	288.9
62.5°	272.6	271.6	267.5	266.5	264.5	262.5	259.4	257.4	257.4	259.4	260.4
65°	242.1	241.1	238.0	237.0	231.9	229.9	228.9	227.9	225.8	225.8	225.8
67.5°	213.6	210.6	210.6	205.5	201.4	199.4	197.4	196.3	196.3	196.3	197.4
70°	182.1	182.1	179.0	176.0	171.9	172.9	169.9	166.8	166.8	164.8	165.8
72.5°	151.6	150.6	147.5	146.5	143.4	140.4	138.3	140.4	137.3	136.3	137.3
75°	122.1	121.1	119.0	117.0	118.0	115.0	111.9	110.9	110.9	108.8	108.8
77.5°	93.6	95.6	91.6	90.5	88.5	86.5	85.5	84.4	84.4	84.4	86.5
80°	65.1	66.1	66.1	64.1	65.1	62.1	62.1	62.1	59.0	60.0	61.0
82.5°	41.7	41.7	40.7	41.7	40.7	40.7	39.7	39.7	38.7	38.7	39.7
85°	23.4	22.4	21.4	23.4	22.4	22.4	21.4	21.4	21.4	21.4	21.4
87.5°	5.1	6.1	6.1	6.1	6.1	7.1	7.1	7.1	8.1	8.1	8.1
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: P997624

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1323.5	1323.5	1323.5	1323.5
2.5°	1299.1	1299.1	1314.3	1330.6
5°	1270.6	1277.7	1302.1	1324.5
7.5°	1243.1	1255.3	1285.8	1314.3
10°	1209.5	1225.8	1263.5	1297.0
12.5°	1177.0	1192.3	1236.0	1273.6
15°	1131.2	1150.5	1197.3	1244.1
17.5°	1085.4	1104.8	1161.7	1216.7
20°	1031.5	1057.0	1121.0	1194.3
22.5°	981.7	1013.2	1084.4	1143.4
25°	926.7	975.6	1041.7	1118.0
27.5°	877.9	926.7	993.9	1071.2
30°	823.0	872.8	942.0	1013.2
32.5°	770.1	815.9	883.0	970.5
35°	715.1	758.9	824.0	912.5
37.5°	665.3	708.0	779.2	860.6
40°	616.5	661.2	722.3	803.7
42.5°	570.7	610.4	665.3	746.7
45°	529.0	557.5	608.3	684.6
47.5°	485.2	510.7	557.5	633.8
50°	444.6	465.9	506.6	577.8
52.5°	404.9	423.2	460.8	517.8
55°	369.3	386.6	414.0	470.0
57.5°	332.7	345.9	372.3	417.1
60°	297.0	309.3	330.6	367.2
62.5°	261.4	271.6	292.0	321.5
65°	229.9	238.0	253.3	278.7
67.5°	199.4	204.5	216.7	237.0
70°	169.9	174.0	184.1	200.4
72.5°	138.3	142.4	153.6	164.8
75°	111.9	112.9	121.1	130.2
77.5°	87.5	86.5	92.6	99.7
80°	60.0	63.1	68.2	71.2
82.5°	40.7	41.7	43.7	45.8
85°	22.4	23.4	23.4	26.4
87.5°	9.2	10.2	10.2	11.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P997624

CATALOG NUMBER: SA2XXDP-B675DB27-4F0-XX-W2A-A

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	22.54	24.06	22.91	24.37	24.69	18.81	20.32	19.17	20.64	20.95
	3H	23.66	25.02	24.03	25.34	25.71	20.22	21.58	20.60	21.91	22.27
	4H	23.98	25.26	24.38	25.61	25.98	20.73	22.00	21.13	22.35	22.73
	6H	24.17	25.35	24.58	25.72	26.11	21.09	22.26	21.50	22.63	23.02
	8H	24.21	25.33	24.64	25.72	26.12	21.20	22.32	21.62	22.71	23.11
	12H	24.22	25.30	24.65	25.68	26.11	21.27	22.35	21.70	22.73	23.16
4H	2H	22.66	23.94	23.06	24.29	24.66	19.61	20.88	20.00	21.23	21.61
	3H	23.99	25.05	24.40	25.45	25.85	21.18	22.24	21.59	22.64	23.04
	4H	24.46	25.42	24.90	25.83	26.27	21.78	22.73	22.21	23.15	23.59
	6H	24.79	25.62	25.25	26.07	26.53	22.23	23.06	22.69	23.51	23.97
	8H	24.87	25.65	25.33	26.09	26.56	22.38	23.15	22.84	23.60	24.06
	12H	24.91	25.60	25.39	26.08	26.55	22.48	23.18	22.97	23.65	24.13
8H	4H	24.55	25.32	25.01	25.77	26.24	22.19	22.96	22.65	23.41	23.88
	6H	24.96	25.60	25.45	26.09	26.57	22.73	23.37	23.23	23.86	24.34
	8H	25.08	25.66	25.60	26.17	26.66	22.93	23.50	23.44	24.01	24.50
	12H	25.17	25.68	25.68	26.17	26.74	23.09	23.60	23.60	24.09	24.66
12H	4H	24.54	25.23	25.02	25.71	26.18	22.24	22.94	22.73	23.41	23.89
	6H	24.95	25.52	25.46	26.03	26.52	22.81	23.38	23.32	23.89	24.38
	8H	25.12	25.62	25.63	26.12	26.68	23.06	23.56	23.57	24.05	24.62