

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: P997750

Luminaire Tested: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K
Description: Define 2 Regressed Direct Recessed with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

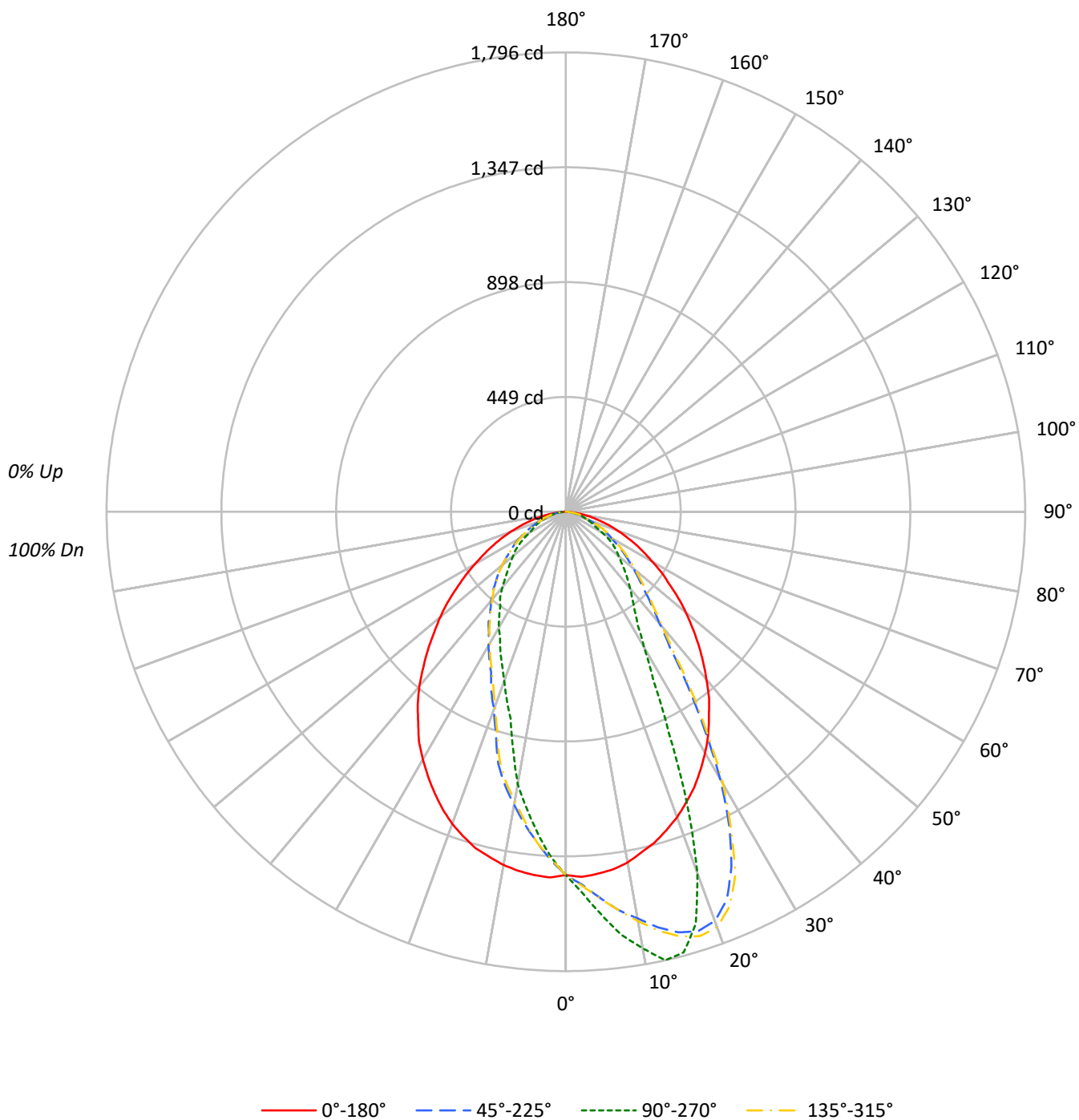
Lumens per Lamp: N/A
Luminaire Lumens: 2454.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

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			0
RW	70	50	30	10	70	50	30	10	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		102	102	102	100
1	111	106	103	100	108	104	101	98	100	97	95		96	94	92		93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81		87	83	80		84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69	64	60	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	39
9	62	50	43	38	61	50	42	37	49	42	37		47	41	37		47	41	37	35
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22478	22478	22478	22478
5°	22579	25104	22659	20054
10°	22381	27854	22540	17385
15°	21945	29223	22317	13697
20°	21410	25333	21877	11852
25°	20751	16615	21200	10582
30°	19896	11183	20437	9578
35°	18841	9057	19452	8638
40°	17659	8055	18413	7993
45°	16391	7291	17076	7134
50°	15091	6634	15795	6610
55°	13644	6237	14378	6154
60°	12372	5217	13028	5154
65°	11199	4397	11866	4989
70°	9909	4064	10686	4702
75°	8568	3804	9357	4348
80°	7110	3510	7648	3865
85°	5558	3233	6102	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 24676 cd/sqm

TEST NUMBER: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	5.5
10°-20°	376.0	15.3
20°-30°	483.9	19.7
30°-40°	459.0	18.7
40°-50°	393.4	16.0
50°-60°	299.6	12.2
60°-70°	188.9	7.7
70°-80°	94.3	3.8
80°-90°	24.2	1.0
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°	994.5	40.5
0°-40°	1453.6	59.2
0°-60°	2146.6	87.5
0°-90°	2454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1420	1420	1420	1420	1420	
5°	1421	1580	1426	1262	1421	135
15°	1339	1783	1362	836	1339	377
25°	1188	951	1214	606	1188	546
35°	975	469	1007	447	975	610
45°	732	326	763	319	732	565
55°	494	226	521	223	494	446
65°	299	117	317	133	299	297
75°	140	62	153	71	140	152
85°	31	18	34	19	31	37
90°	0	0	0	0	0	

TEST NUMBER: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1428.9	1434.8	1437.8	1441.7	1450.6	1456.5	1465.4	1467.4	1466.4	1470.4	1459.5
5°	1421.0	1433.9	1445.7	1455.6	1471.4	1481.2	1492.1	1504.9	1507.9	1522.7	1513.8
7.5°	1410.2	1428.9	1445.7	1465.4	1489.1	1501.9	1518.7	1538.5	1547.3	1565.1	1570.0
10°	1392.4	1419.1	1447.7	1468.4	1501.0	1523.7	1539.4	1571.0	1591.7	1618.4	1614.4
12.5°	1363.8	1398.3	1436.8	1471.4	1513.8	1528.6	1558.2	1590.8	1617.4	1642.1	1663.8
15°	1339.1	1378.6	1421.0	1463.5	1511.8	1539.4	1569.0	1611.5	1640.1	1683.5	1702.3
17.5°	1305.6	1355.9	1406.2	1453.6	1510.8	1542.4	1578.9	1620.4	1662.8	1704.2	1719.0
20°	1271.0	1325.3	1379.6	1443.7	1508.9	1539.4	1576.9	1628.3	1669.7	1702.3	1702.3
22.5°	1229.6	1295.7	1357.9	1419.1	1490.1	1534.5	1573.0	1633.2	1662.8	1669.7	1643.1
25°	1188.1	1254.3	1322.3	1398.3	1479.2	1518.7	1562.1	1618.4	1628.3	1600.6	1531.5
27.5°	1138.8	1212.8	1289.8	1371.7	1456.5	1505.9	1545.4	1582.9	1564.1	1490.1	1382.5
30°	1088.5	1168.4	1255.2	1333.2	1435.8	1481.2	1514.8	1525.6	1466.4	1346.0	1206.9
32.5°	1036.2	1114.1	1205.9	1299.6	1403.3	1446.7	1468.4	1439.8	1331.2	1179.3	1009.5
35°	975.0	1062.8	1158.5	1256.2	1358.9	1391.4	1404.2	1334.2	1195.0	998.7	829.9
37.5°	919.7	1007.5	1110.2	1209.8	1309.5	1327.3	1314.4	1204.9	1028.3	833.9	669.1
40°	854.6	948.3	1049.0	1160.5	1242.4	1247.3	1215.8	1073.7	854.6	672.0	570.4
42.5°	794.4	889.1	989.8	1103.3	1165.4	1148.7	1106.2	919.7	713.5	579.3	497.4
45°	732.2	822.0	930.6	1031.2	1075.6	1036.2	972.0	773.7	599.0	498.3	435.2
47.5°	672.0	755.9	863.5	960.2	968.1	923.7	847.7	648.3	519.1	438.1	386.8
50°	612.8	696.7	797.4	877.3	869.4	808.2	722.4	563.5	451.0	386.8	344.4
52.5°	553.6	629.6	727.3	790.4	756.9	697.7	612.8	477.6	393.7	337.5	304.9
55°	494.4	565.4	649.3	701.6	648.3	580.3	520.1	409.5	341.4	296.0	271.4
57.5°	445.1	501.3	578.3	609.9	545.7	492.4	440.1	352.3	296.0	263.5	234.9
60°	390.8	442.1	505.3	524.0	457.9	414.5	370.1	298.0	253.6	225.0	206.2
62.5°	344.4	386.8	435.2	435.2	377.0	344.4	310.8	249.7	213.2	190.5	181.6
65°	299.0	329.6	364.1	360.2	310.8	282.2	255.6	206.2	178.6	162.8	153.9
67.5°	254.6	278.3	301.0	287.2	251.6	227.0	202.3	166.8	148.0	137.2	125.3
70°	214.1	232.9	244.7	231.9	196.4	175.7	157.9	134.2	119.4	105.6	98.7
72.5°	179.6	187.5	191.4	175.7	146.0	134.2	121.4	104.6	91.8	84.9	82.9
75°	140.1	147.0	144.1	132.2	107.6	98.7	88.8	77.0	74.0	70.1	68.1
77.5°	109.5	109.5	104.6	93.7	77.0	70.1	66.1	60.2	57.2	56.2	54.3
80°	78.0	77.0	74.0	62.2	52.3	48.4	48.4	44.4	43.4	41.4	41.4
82.5°	51.3	51.3	47.4	37.5	34.5	33.6	32.6	30.6	30.6	29.6	29.6
85°	30.6	28.6	23.7	20.7	19.7	19.7	18.7	17.8	18.7	17.8	17.8
87.5°	13.8	10.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1470.4	1472.3	1475.3	1489.1	1491.1	1495.0	1493.1	1493.1	1494.0	1492.1	1493.1
5°	1533.5	1536.5	1551.3	1568.1	1572.0	1568.1	1573.0	1579.9	1579.9	1579.9	1577.9
7.5°	1592.7	1603.6	1620.4	1645.0	1650.0	1654.9	1663.8	1657.9	1659.8	1668.7	1665.8
10°	1650.0	1665.8	1684.5	1705.2	1716.1	1723.0	1726.9	1735.8	1756.5	1732.9	1741.7
12.5°	1704.2	1726.9	1746.7	1769.4	1777.3	1786.1	1789.1	1797.0	1797.0	1796.0	1802.9
15°	1739.8	1760.5	1778.3	1793.1	1795.0	1793.1	1791.1	1792.1	1795.0	1783.2	1790.1
17.5°	1747.7	1749.6	1755.6	1749.6	1750.6	1729.9	1718.1	1715.1	1687.5	1688.5	1711.1
20°	1709.2	1675.6	1666.7	1634.2	1614.4	1561.2	1559.2	1544.4	1486.2	1503.9	1500.0
22.5°	1603.6	1546.4	1470.4	1432.9	1414.1	1357.9	1314.4	1283.9	1263.1	1242.4	1233.5
25°	1464.4	1371.7	1264.1	1190.1	1179.3	1127.0	1047.0	1009.5	965.1	951.3	975.0
27.5°	1284.8	1164.4	1043.1	929.6	908.9	861.5	821.0	794.4	743.1	740.1	742.1
30°	1041.1	919.7	818.1	744.1	692.7	671.0	644.4	624.7	603.9	611.8	613.8
32.5°	855.6	740.1	645.4	605.9	582.2	568.4	545.7	532.9	524.0	521.0	520.1
35°	679.9	602.9	560.5	522.0	508.2	498.3	481.6	475.6	467.8	468.7	468.7
37.5°	582.2	518.1	486.5	466.8	453.9	449.0	438.1	432.2	427.3	425.3	428.3
40°	502.3	457.9	438.1	420.4	409.5	407.6	401.6	394.7	388.8	389.8	392.8
42.5°	444.1	418.4	394.7	380.9	373.0	370.1	365.1	360.2	360.2	357.2	356.2
45°	397.7	377.0	357.2	344.4	339.5	335.5	329.6	328.6	324.7	325.7	326.6
47.5°	356.2	339.5	324.7	311.8	306.9	305.9	300.0	296.0	296.0	295.1	294.1
50°	318.7	302.0	289.1	282.2	275.3	273.3	272.4	271.4	269.4	269.4	270.4
52.5°	288.2	271.4	261.5	255.6	251.6	249.7	249.7	248.7	248.7	248.7	247.7
55°	254.6	240.8	232.9	230.9	228.9	228.0	227.0	225.0	224.0	226.0	224.0
57.5°	223.0	218.1	211.2	209.2	204.3	204.3	201.3	199.3	197.4	199.3	199.3
60°	198.4	191.4	187.5	181.6	177.6	173.7	168.7	167.8	165.8	164.8	163.8
62.5°	172.7	166.8	156.9	148.0	142.1	138.2	136.2	135.2	135.2	134.2	134.2
65°	144.1	130.3	125.3	122.4	121.4	120.4	118.4	117.4	118.4	117.4	118.4
67.5°	112.5	110.5	107.6	105.6	104.6	103.6	103.6	102.6	102.6	102.6	102.6
70°	97.7	92.8	91.8	89.8	89.8	88.8	88.8	88.8	88.8	87.8	89.8
72.5°	80.9	78.0	77.0	76.0	76.0	76.0	75.0	75.0	75.0	74.0	75.0
75°	66.1	65.1	63.2	63.2	62.2	63.2	62.2	62.2	61.2	62.2	62.2
77.5°	53.3	52.3	51.3	51.3	50.3	50.3	50.3	50.3	50.3	50.3	51.3
80°	40.5	39.5	38.5	39.5	38.5	39.5	38.5	38.5	39.5	38.5	38.5
82.5°	29.6	28.6	28.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
85°	17.8	16.8	16.8	17.8	16.8	17.8	16.8	16.8	16.8	17.8	17.8
87.5°	7.9	8.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1497.0	1490.1	1488.1	1490.1	1488.1	1489.1	1482.2	1456.5	1463.5	1452.6	1458.5
5°	1581.9	1576.0	1563.1	1561.2	1559.2	1557.2	1547.3	1524.6	1515.8	1501.0	1500.0
7.5°	1662.8	1662.8	1652.9	1646.0	1637.1	1630.2	1617.4	1583.8	1570.0	1552.3	1542.4
10°	1742.7	1717.1	1727.9	1721.0	1699.3	1695.4	1671.7	1651.9	1625.3	1607.5	1591.7
12.5°	1800.0	1792.1	1782.2	1776.3	1770.4	1757.5	1741.7	1691.4	1677.6	1642.1	1624.3
15°	1798.0	1793.1	1796.0	1796.0	1794.0	1791.1	1778.3	1741.7	1718.1	1683.5	1652.9
17.5°	1701.3	1714.1	1726.9	1735.8	1755.6	1764.4	1776.3	1754.6	1739.8	1710.2	1677.6
20°	1532.5	1564.1	1601.6	1609.5	1627.3	1679.6	1703.3	1722.0	1727.9	1718.1	1691.4
22.5°	1297.7	1324.3	1415.1	1413.1	1438.8	1501.0	1570.0	1626.3	1670.7	1695.4	1685.5
25°	1016.4	1053.9	1102.3	1138.8	1222.7	1315.4	1401.3	1491.1	1568.1	1636.2	1652.9
27.5°	768.7	818.1	856.6	904.9	947.3	1056.9	1167.4	1307.5	1397.3	1526.6	1593.7
30°	621.7	644.4	682.9	705.6	726.3	810.2	935.5	1073.7	1231.6	1380.6	1496.0
32.5°	530.9	546.7	575.3	585.2	606.9	663.1	742.1	868.4	1031.2	1211.8	1363.8
35°	476.6	493.4	499.3	508.2	526.0	561.5	615.8	707.6	854.6	1031.2	1212.8
37.5°	430.3	439.1	455.9	461.8	467.8	494.4	530.9	595.1	692.7	837.8	1039.1
40°	397.7	402.6	411.5	416.4	420.4	439.1	471.7	515.1	587.2	697.7	883.2
42.5°	363.2	369.1	375.0	380.9	385.8	400.6	420.4	461.8	510.2	594.1	728.3
45°	329.6	333.5	340.5	344.4	351.3	363.2	380.9	409.5	453.0	506.2	614.8
47.5°	299.0	303.9	306.9	311.8	316.8	329.6	346.4	365.1	400.6	453.0	531.9
50°	271.4	277.3	281.2	282.2	286.2	298.0	311.8	332.6	355.3	395.7	464.8
52.5°	251.6	252.6	255.6	259.5	258.5	265.5	278.3	294.1	317.8	350.3	400.6
55°	228.9	231.9	233.9	234.9	234.9	240.8	247.7	262.5	281.2	307.9	350.3
57.5°	200.3	203.3	209.2	211.2	214.1	217.1	220.1	229.9	245.7	271.4	305.9
60°	170.7	172.7	178.6	182.6	184.5	192.4	196.4	204.3	213.2	231.9	264.5
62.5°	137.2	139.1	142.1	146.0	150.0	161.8	171.7	179.6	186.5	199.3	226.0
65°	119.4	120.4	122.4	123.4	124.3	129.3	138.2	149.0	161.8	171.7	187.5
67.5°	103.6	104.6	105.6	107.6	108.6	109.5	113.5	116.4	129.3	143.1	154.9
70°	88.8	90.8	91.8	91.8	92.8	94.7	96.7	100.7	104.6	111.5	126.3
72.5°	75.0	76.0	78.0	78.0	78.0	79.9	81.9	83.9	85.9	89.8	95.7
75°	62.2	64.1	64.1	64.1	65.1	65.1	67.1	69.1	71.1	74.0	76.0
77.5°	51.3	51.3	51.3	51.3	52.3	52.3	53.3	55.3	56.2	57.2	59.2
80°	38.5	39.5	39.5	39.5	40.5	40.5	40.5	42.4	43.4	43.4	45.4
82.5°	28.6	28.6	28.6	29.6	28.6	29.6	29.6	30.6	29.6	30.6	31.6
85°	17.8	17.8	17.8	18.7	18.7	18.7	18.7	18.7	18.7	18.7	19.7
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.9	8.9	8.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1449.6	1444.7	1444.7	1441.7	1441.7	1426.0	1426.0	1430.9	1425.0	1418.1	1408.2
5°	1487.1	1476.3	1473.3	1469.4	1456.5	1436.8	1428.9	1426.0	1414.1	1399.3	1382.5
7.5°	1522.7	1504.9	1496.0	1487.1	1470.4	1442.7	1426.9	1416.1	1398.3	1375.6	1353.9
10°	1557.2	1534.5	1511.8	1501.0	1477.3	1442.7	1420.0	1402.3	1376.6	1346.0	1315.4
12.5°	1588.8	1541.4	1537.5	1515.8	1481.2	1441.7	1407.2	1381.6	1349.0	1313.5	1277.9
15°	1616.4	1568.1	1544.4	1524.6	1479.2	1429.9	1393.4	1361.8	1318.4	1277.9	1234.5
17.5°	1630.2	1577.9	1562.1	1529.6	1483.2	1419.1	1369.7	1331.2	1283.9	1235.5	1186.2
20°	1644.0	1582.9	1557.2	1534.5	1471.4	1398.3	1343.1	1298.7	1246.4	1189.1	1134.8
22.5°	1651.0	1582.9	1552.3	1520.7	1459.5	1375.6	1310.5	1258.2	1197.0	1138.8	1073.7
25°	1639.1	1576.9	1540.4	1507.9	1438.8	1348.0	1273.0	1213.8	1148.7	1082.5	1016.4
27.5°	1609.5	1563.1	1520.7	1487.1	1410.2	1312.5	1233.5	1166.4	1099.3	1025.3	958.2
30°	1554.2	1533.5	1500.0	1462.5	1378.6	1280.9	1187.1	1118.1	1044.1	970.0	900.0
32.5°	1468.4	1486.2	1464.4	1431.9	1341.1	1237.5	1137.8	1067.7	986.8	906.9	842.7
35°	1363.8	1426.9	1415.1	1392.4	1301.6	1191.1	1091.4	1006.6	925.6	844.7	780.6
37.5°	1249.3	1345.0	1354.9	1341.1	1256.2	1143.7	1034.2	951.3	868.4	786.5	721.4
40°	1092.4	1239.4	1271.0	1276.9	1208.9	1086.5	972.0	891.1	809.2	729.3	650.3
42.5°	948.3	1133.9	1173.3	1198.0	1148.7	1030.2	914.8	825.0	744.1	672.0	593.1
45°	813.1	1006.6	1070.7	1102.3	1080.6	966.1	846.7	762.8	688.8	622.7	546.7
47.5°	674.0	868.4	958.2	1008.5	1008.5	901.0	781.6	698.7	627.6	571.4	504.3
50°	581.2	743.1	835.8	902.0	919.7	834.9	722.4	641.4	574.3	513.1	461.8
52.5°	495.4	640.4	717.4	786.5	837.8	763.8	656.2	583.2	517.1	459.9	419.4
55°	428.3	536.8	606.9	682.9	740.1	691.8	592.1	521.0	463.8	416.4	381.9
57.5°	364.1	458.9	516.1	583.2	644.4	607.9	527.9	466.8	416.4	375.0	344.4
60°	309.9	386.8	431.2	483.5	559.5	533.9	467.8	411.5	371.0	333.5	307.9
62.5°	263.5	324.7	362.2	399.7	468.7	456.9	405.6	362.2	327.6	296.0	274.3
65°	216.1	266.4	296.0	328.6	383.9	388.8	347.4	316.8	285.2	257.6	237.8
67.5°	174.7	214.1	240.8	268.4	312.8	326.6	298.0	272.4	245.7	223.0	205.3
70°	141.1	168.7	188.5	210.2	246.7	263.5	248.7	230.9	209.2	190.5	174.7
72.5°	111.5	129.3	141.1	157.9	187.5	204.3	203.3	187.5	171.7	158.9	146.0
75°	81.9	95.7	105.6	116.4	140.1	155.9	159.9	153.0	137.2	127.3	117.4
77.5°	62.2	70.1	75.0	82.9	99.7	113.5	119.4	117.4	106.6	98.7	91.8
80°	47.4	49.3	51.3	54.3	68.1	80.9	84.9	83.9	78.0	75.0	67.1
82.5°	33.6	34.5	35.5	36.5	41.4	52.3	56.2	58.2	53.3	50.3	43.4
85°	19.7	20.7	20.7	22.7	23.7	26.6	33.6	33.6	32.6	28.6	27.6
87.5°	9.9	9.9	8.9	8.9	9.9	10.9	12.8	14.8	12.8	11.8	10.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1404.2	1405.2	1408.2	1399.3	1385.5	1379.6	1361.8	1358.9	1355.9	1355.9	1358.9
5°	1372.7	1368.7	1369.7	1352.9	1333.2	1321.4	1296.7	1300.6	1287.8	1279.9	1281.9
7.5°	1338.1	1327.3	1326.3	1304.6	1279.9	1258.2	1232.5	1226.6	1214.8	1201.0	1195.0
10°	1294.7	1286.8	1272.0	1247.3	1215.8	1198.0	1163.5	1142.7	1139.8	1119.1	1111.2
12.5°	1250.3	1236.5	1221.7	1187.1	1151.6	1123.0	1097.3	1074.6	1058.9	1041.1	1029.3
15°	1199.0	1182.2	1165.4	1128.9	1087.5	1058.9	1020.4	986.8	940.4	903.9	883.2
17.5°	1142.7	1124.0	1101.3	1060.8	1020.4	980.9	909.8	870.4	837.8	816.1	803.3
20°	1084.5	1063.8	1041.1	1000.6	930.6	861.5	822.0	791.4	771.7	750.0	734.2
22.5°	1023.3	1001.6	977.0	913.8	839.8	791.4	760.8	732.2	703.6	691.8	683.9
25°	966.1	946.4	914.8	828.9	770.7	726.3	691.8	673.0	658.2	642.4	627.6
27.5°	906.9	870.4	826.0	753.9	717.4	672.0	647.4	633.5	607.9	597.0	590.1
30°	835.8	795.4	752.9	701.6	659.2	627.6	604.9	582.2	567.4	556.6	544.7
32.5°	763.8	725.3	698.7	645.4	613.8	581.2	559.5	545.7	524.0	517.1	512.2
35°	701.6	669.1	645.4	602.0	572.4	542.8	527.0	506.2	492.4	479.6	471.7
37.5°	640.4	622.7	598.0	561.5	529.9	506.2	484.5	477.6	458.9	452.0	444.1
40°	598.0	571.4	550.6	519.1	492.4	466.8	453.0	437.2	424.3	413.5	410.5
42.5°	546.7	527.0	515.1	480.6	453.0	438.1	421.4	403.6	393.7	384.9	374.0
45°	508.2	490.5	473.7	446.0	421.4	402.6	387.8	376.0	359.2	355.3	338.5
47.5°	467.8	450.0	437.2	409.5	386.8	369.1	358.2	342.4	328.6	319.7	311.8
50°	427.3	412.5	400.6	377.0	357.2	338.5	323.7	307.9	302.0	287.2	282.2
52.5°	388.8	378.9	366.1	343.4	323.7	307.9	292.1	279.3	270.4	262.5	256.6
55°	356.2	340.5	334.5	309.9	293.1	276.3	262.5	254.6	243.7	238.8	233.9
57.5°	319.7	310.8	301.0	282.2	263.5	247.7	237.8	226.0	220.1	214.1	210.2
60°	288.2	275.3	267.4	251.6	234.9	220.1	211.2	202.3	194.4	189.5	181.6
62.5°	251.6	241.8	236.8	220.1	206.2	192.4	184.5	175.7	169.7	160.9	151.0
65°	220.1	212.2	206.2	192.4	179.6	166.8	158.9	148.0	140.1	135.2	134.2
67.5°	192.4	186.5	177.6	164.8	152.0	142.1	133.2	124.3	123.4	121.4	121.4
70°	161.8	155.9	151.0	137.2	126.3	115.5	113.5	110.5	107.6	106.6	104.6
72.5°	135.2	130.3	124.3	112.5	101.6	98.7	96.7	94.7	91.8	90.8	89.8
75°	109.5	102.6	98.7	87.8	84.9	82.9	80.9	78.0	76.0	75.0	73.0
77.5°	83.9	77.0	77.0	71.1	69.1	66.1	64.1	62.2	61.2	59.2	59.2
80°	59.2	59.2	57.2	54.3	51.3	50.3	47.4	46.4	45.4	46.4	44.4
82.5°	43.4	39.5	39.5	37.5	35.5	34.5	32.6	32.6	31.6	31.6	31.6
85°	24.7	24.7	23.7	21.7	20.7	20.7	19.7	19.7	18.7	18.7	17.8
87.5°	9.9	8.9	9.9	8.9	8.9	7.9	7.9	7.9	6.9	7.9	6.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1358.9	1356.9	1351.0	1352.9	1350.0	1350.0	1348.0	1348.0	1348.0	1352.9	1350.0
5°	1284.8	1277.9	1271.0	1268.1	1265.1	1262.1	1262.1	1261.2	1270.0	1268.1	1276.0
7.5°	1193.1	1191.1	1177.3	1177.3	1172.3	1170.4	1175.3	1176.3	1177.3	1179.3	1184.2
10°	1111.2	1106.2	1086.5	1088.5	1085.5	1081.6	1084.5	1082.5	1089.5	1091.4	1089.5
12.5°	1014.5	1005.6	983.9	973.0	961.2	952.3	963.1	955.2	982.9	990.8	1012.5
15°	886.2	869.4	854.6	854.6	843.7	835.8	840.8	849.7	855.6	864.5	868.4
17.5°	800.3	793.4	781.6	774.7	771.7	768.7	768.7	772.7	785.5	784.5	792.4
20°	727.3	723.3	717.4	708.5	705.6	703.6	703.6	703.6	712.5	720.4	725.3
22.5°	677.0	674.0	670.1	658.2	652.3	650.3	655.2	658.2	665.1	671.0	676.0
25°	626.6	619.7	612.8	608.9	605.9	605.9	607.9	608.9	611.8	614.8	620.7
27.5°	585.2	580.3	570.4	559.5	559.5	556.6	558.5	560.5	567.4	577.3	582.2
30°	538.8	537.8	533.9	529.9	526.0	524.0	527.9	530.9	531.9	536.8	536.8
32.5°	505.3	498.3	491.4	487.5	485.5	484.5	485.5	489.5	489.5	495.4	502.3
35°	471.7	467.8	460.8	453.9	452.0	447.0	451.0	454.9	461.8	464.8	467.8
37.5°	435.2	430.3	427.3	425.3	421.4	422.4	419.4	425.3	431.2	430.3	432.2
40°	407.6	398.7	389.8	388.8	387.8	386.8	386.8	387.8	391.8	395.7	401.6
42.5°	372.0	369.1	361.2	353.3	351.3	349.3	347.4	351.3	359.2	366.1	369.1
45°	335.5	331.6	329.6	323.7	319.7	318.7	316.8	321.7	328.6	331.6	333.5
47.5°	302.0	301.0	295.1	296.0	293.1	294.1	293.1	296.0	296.0	299.0	301.0
50°	279.3	276.3	273.3	271.4	268.4	268.4	267.4	268.4	272.4	276.3	275.3
52.5°	256.6	251.6	250.7	249.7	247.7	249.7	246.7	247.7	251.6	253.6	252.6
55°	229.9	228.9	227.0	225.0	224.0	223.0	223.0	223.0	227.0	229.9	230.9
57.5°	209.2	204.3	200.3	200.3	196.4	195.4	197.4	198.4	201.3	203.3	205.3
60°	180.6	178.6	172.7	169.7	163.8	162.8	162.8	166.8	171.7	178.6	180.6
62.5°	150.0	147.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	147.0	147.0
65°	133.2	134.2	133.2	132.2	133.2	133.2	132.2	132.2	132.2	133.2	134.2
67.5°	119.4	118.4	119.4	118.4	117.4	117.4	116.4	117.4	118.4	119.4	119.4
70°	103.6	103.6	102.6	103.6	102.6	101.6	100.7	100.7	102.6	103.6	103.6
72.5°	88.8	88.8	87.8	87.8	85.9	85.9	86.8	85.9	85.9	88.8	88.8
75°	74.0	73.0	72.0	72.0	71.1	71.1	71.1	70.1	72.0	72.0	73.0
77.5°	58.2	58.2	58.2	57.2	57.2	56.2	56.2	57.2	57.2	57.2	58.2
80°	44.4	44.4	44.4	43.4	42.4	42.4	42.4	42.4	42.4	43.4	42.4
82.5°	30.6	30.6	30.6	30.6	30.6	29.6	29.6	29.6	30.6	30.6	29.6
85°	18.7	17.8	18.7	18.7	17.8	18.7	17.8	17.8	16.8	16.8	17.8
87.5°	7.9	6.9	5.9	5.9	6.9	5.9	5.9	5.9	6.9	5.9	5.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
2.5°	1352.9	1357.9	1355.9	1345.0	1355.9	1358.9	1364.8	1370.7	1374.6	1380.6	1385.5
5°	1268.1	1277.9	1283.9	1277.9	1297.7	1300.6	1314.4	1322.3	1334.2	1344.1	1351.9
7.5°	1188.1	1196.0	1207.9	1209.8	1221.7	1235.5	1255.2	1275.0	1293.7	1303.6	1312.5
10°	1102.3	1116.1	1133.9	1129.9	1147.7	1169.4	1190.1	1221.7	1237.5	1255.2	1271.0
12.5°	1016.4	1025.3	1049.0	1056.9	1082.5	1099.3	1127.9	1147.7	1187.1	1207.9	1221.7
15°	866.4	902.9	932.5	968.1	1001.6	1033.2	1058.9	1094.4	1128.9	1144.7	1167.4
17.5°	798.3	815.1	832.9	850.6	894.1	950.3	995.7	1034.2	1063.8	1084.5	1111.2
20°	727.3	744.1	763.8	780.6	807.2	847.7	903.9	970.0	1005.6	1027.3	1052.9
22.5°	677.0	692.7	705.6	720.4	741.1	770.7	813.1	895.0	942.4	969.1	991.8
25°	622.7	642.4	656.2	667.1	683.9	716.4	751.0	797.4	882.2	902.9	934.5
27.5°	585.2	591.1	606.9	623.7	640.4	658.2	693.7	733.2	790.4	835.8	874.3
30°	540.8	555.6	570.4	577.3	592.1	617.8	639.5	681.9	726.3	761.8	808.2
32.5°	507.2	516.1	526.0	542.8	556.6	574.3	596.0	631.6	669.1	691.8	727.3
35°	469.7	475.6	496.4	503.3	517.1	534.9	556.6	584.2	624.7	642.4	668.1
37.5°	434.2	448.0	453.9	469.7	482.6	500.3	516.1	547.7	574.3	595.1	618.7
40°	406.6	412.5	423.3	437.2	448.0	461.8	481.6	504.3	532.9	549.7	570.4
42.5°	373.0	378.0	391.8	399.7	417.4	430.3	442.1	469.7	495.4	508.2	528.9
45°	336.5	348.3	357.2	373.0	382.9	398.7	413.5	433.2	456.9	471.7	483.5
47.5°	304.9	316.8	325.7	340.5	356.2	363.2	378.9	399.7	421.4	433.2	450.0
50°	279.3	283.2	300.0	306.9	323.7	337.5	348.3	366.1	389.8	396.7	410.5
52.5°	254.6	257.6	268.4	277.3	292.1	303.9	317.8	334.5	354.3	365.1	376.0
55°	232.9	234.9	239.8	249.7	259.5	274.3	287.2	303.0	319.7	331.6	341.4
57.5°	208.2	212.2	216.1	222.0	231.9	245.7	259.5	274.3	288.2	296.0	308.9
60°	179.6	185.5	192.4	199.3	206.2	216.1	231.9	245.7	258.5	265.5	275.3
62.5°	149.0	160.9	166.8	174.7	180.6	189.5	201.3	217.1	226.0	234.9	242.8
65°	134.2	135.2	136.2	144.1	154.9	163.8	174.7	186.5	200.3	206.2	212.2
67.5°	119.4	120.4	122.4	123.4	127.3	137.2	149.0	161.8	172.7	176.6	182.6
70°	104.6	104.6	108.6	109.5	110.5	111.5	121.4	134.2	144.1	149.0	155.9
72.5°	88.8	89.8	91.8	92.8	94.7	96.7	99.7	106.6	118.4	123.4	131.2
75°	73.0	74.0	75.0	76.0	78.9	79.9	82.9	86.8	91.8	97.7	102.6
77.5°	58.2	58.2	59.2	61.2	63.2	64.1	67.1	69.1	71.1	74.0	78.0
80°	43.4	44.4	44.4	46.4	46.4	47.4	48.4	51.3	53.3	55.3	57.2
82.5°	29.6	31.6	31.6	31.6	32.6	33.6	34.5	34.5	36.5	37.5	40.5
85°	17.8	18.7	18.7	18.7	17.8	19.7	19.7	20.7	20.7	20.7	21.7
87.5°	6.9	5.9	6.9	6.9	6.9	7.9	6.9	6.9	7.9	8.9	8.9
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: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1420.0	1420.0	1420.0	1420.0
2.5°	1394.4	1391.4	1409.2	1428.9
5°	1365.8	1370.7	1393.4	1421.0
7.5°	1336.2	1347.0	1373.7	1410.2
10°	1294.7	1314.4	1354.9	1392.4
12.5°	1254.3	1280.9	1319.4	1363.8
15°	1208.9	1238.5	1285.8	1339.1
17.5°	1158.5	1192.1	1247.3	1305.6
20°	1105.2	1149.6	1207.9	1271.0
22.5°	1046.0	1099.3	1159.5	1229.6
25°	988.8	1047.0	1107.2	1188.1
27.5°	932.5	989.8	1056.9	1138.8
30°	876.3	928.6	1000.6	1088.5
32.5°	816.1	870.4	946.4	1036.2
35°	760.8	815.1	886.2	975.0
37.5°	701.6	759.9	827.9	919.7
40°	632.6	700.6	766.8	854.6
42.5°	575.3	647.4	711.5	794.4
45°	529.9	598.0	651.3	732.2
47.5°	487.5	542.8	597.0	672.0
50°	447.0	489.5	545.7	612.8
52.5°	405.6	442.1	490.5	553.6
55°	368.1	402.6	446.0	494.4
57.5°	333.5	358.2	401.6	445.1
60°	295.1	320.7	354.3	390.8
62.5°	262.5	282.2	313.8	344.4
65°	228.0	246.7	270.4	299.0
67.5°	196.4	213.2	231.9	254.6
70°	167.8	180.6	194.4	214.1
72.5°	137.2	151.0	163.8	179.6
75°	112.5	118.4	129.3	140.1
77.5°	86.8	94.7	100.7	109.5
80°	62.2	69.1	71.1	78.0
82.5°	41.4	45.4	49.3	51.3
85°	23.7	25.7	29.6	30.6
87.5°	8.9	9.9	11.8	13.8
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P997750

CATALOG NUMBER: SA2XXRDP-B675DB2750-4F0-XX-W2A-A_5000K

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	21.85	23.30	22.21	23.61	23.93	16.26	17.72	16.63	18.03	18.34
	3H	23.18	24.48	23.56	24.81	25.17	17.39	18.69	17.77	19.02	19.38
	4H	23.61	24.82	24.01	25.17	25.55	17.85	19.07	18.25	19.42	19.80
	6H	23.88	25.00	24.29	25.37	25.76	18.23	19.35	18.64	19.72	20.11
	8H	23.95	25.02	24.38	25.41	25.81	18.35	19.42	18.78	19.81	20.21
	12H	23.99	25.01	24.42	25.39	25.82	18.44	19.46	18.87	19.84	20.27
4H	2H	21.83	23.04	22.23	23.39	23.77	16.95	18.16	17.35	18.51	18.89
	3H	23.27	24.28	23.68	24.68	25.08	18.24	19.24	18.65	19.65	20.05
	4H	23.78	24.68	24.21	25.10	25.54	18.80	19.70	19.23	20.12	20.56
	6H	24.15	24.94	24.61	25.38	25.84	19.28	20.06	19.74	20.51	20.97
	8H	24.26	25.00	24.73	25.44	25.91	19.44	20.17	19.91	20.62	21.09
	12H	24.34	24.99	24.82	25.47	25.94	19.56	20.22	20.05	20.69	21.17
8H	4H	23.76	24.50	24.23	24.94	25.41	19.12	19.85	19.58	20.29	20.76
	6H	24.18	24.79	24.68	25.28	25.76	19.70	20.30	20.20	20.80	21.27
	8H	24.33	24.87	24.84	25.38	25.87	19.93	20.47	20.45	20.98	21.47
	12H	24.44	24.92	24.95	25.41	25.98	20.12	20.60	20.63	21.09	21.66
12H	4H	23.74	24.39	24.23	24.87	25.35	19.15	19.80	19.64	20.28	20.76
	6H	24.16	24.70	24.67	25.21	25.70	19.76	20.30	20.28	20.81	21.30
	8H	24.33	24.81	24.85	25.31	25.87	20.04	20.52	20.56	21.01	21.58

END OF REPORT